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ANNUAL REPORT

OF THE

COMMISSIONER OF PATENTS

FOR THE YEAR

1912

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REPORT

OF THE

COMMISSIONER OF PATENTS

TO CONGRESS

FOR THE YEAR ENDED DECEMBER 31, 1912.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., August 14, 1913.

To the Senate and House of Representatives of the United States of America in Congress assembled:

In compliance with section 494 of the Revised Statutes I have the honor to submit the following report of the business of the Patent Office for the year ended December 31, 1912:

RECEIPTS.

Detailed statement of all moneys received for patents, for copies of records or drawings, or from any source whatever.

Applications:	
Cash received	$1,830,291.00
Cash refunded	5,804.89
Net cash	1,824,486.11
Certificates of deposit	53,507.00
Total cash and certificates	1,877,993.11
Copies:	
Cash received	187,792.96
Cash refunded	4,408.13
Net cash	183,384.83
Certificates of deposit	1,295.90
Total cash and certificates	184,680.73
Recording assignments:	
Cash received	33,735.66
Cash refunded	1,660.60
Net cash	32,075.06
Certificates of deposit	161.00
Total cash and certificates	32,236.06
Registration of prints and labels:	
Cash received	7,143.00
Cash refunded	902.00
Net cash	6,241.00
Certificates of deposit	24.00
Total cash and certificates	6,265.00
Court costs:	
Cash received	25.00
Cash refunded	-----
Net cash	25.00
Certificates of deposit	-----
Total cash and certificates	25.00
Official Gazette and other publications	16,958.40
Aggregates.	
Cash received	2,075,946.02
Cash refunded	12,775.62
Net cash	2,063,170.40
Certificates of deposit	54,987.90
Total cash and certificates	2,118,158.30

EXPENDITURES.

Amounts expended under the several appropriations from January 1 to December 31.

	1911	1912
Salaries	$1,292,716.26	$1,304,124.30
Scientific library	2,253.65	2,374.58
International Union for Protection of Industrial Property	617.60	.....
Stationery	10,075.40	9,546.00
Postage on foreign matter	935.00	614.91
Furniture, carpets, ice, telephones, washing towels, and sundries	17,484.15	21,408.80
Law library	482.38	603.83
Photolithographing:		
Paid contractor	120,128.85	114,046.14
Paid Public Printer for old specifications	16,999.99	21,791.77
Printing and binding, for Official Gazette, indexes, printing specifications, and miscellaneous work	491,976.63	547,439.93
Defending suits, etc	20.00	115.85
Total	1,953,689.91	2,022,066.11

RECEIPTS AND EXPENDITURES.

Receipts from all sources	$2,118,158.30
Expenditures	2,022,066.11
Surplus	96,092.19

Surplus earnings of the Patent Office, deposited in the Treasury of the United States.

Amount of total net surplus in Treasury, January 1, 1912	$7,063,925.76
Net surplus for the year 1912	96,092.19
Total net surplus, December 31, 1912	7,160,017.95

SUMMARY OF THE BUSINESS OF THE PATENT OFFICE.

Applications for patents for inventions	68,968
Applications for patents for designs	1,850
Applications for reissues of patents	158
Total	70,976
Applications for registration of trade-marks	7,215
Applications for registration of labels	885
Applications for registration of prints	309
Disclaimers filed	15
Appeals on the merits	1,732
Total	10,156
Patents issued, including designs	37,573
Patents reissued	158
Total	37,731
Trade-marks registered	5,020
Labels registered	633
Prints registered	243
Total	5,896
Patents expired during the year	20,883
Applications forfeited for non-payment of final fees	7,494
Applications allowed, awaiting final fees	13,303
Trade-mark applications passed for publication	5,117

PATENTS ISSUED.

Patents issued to citizens of the United States, with the ratio of population to each patent granted.

States.	Patents and designs.	One to every—	States.	Patents and designs.	One to every—
Alabama	181	11,813	North Carolina	168	13,133
Arizona	65	3,144	North Dakota	151	3,822
Arkansas	135	11,663	Ohio	2,395	1,991
California	1,658	1,434	Oklahoma	259	6,398
Colorado	467	1,711	Oregon	278	2,420
Connecticut	969	1,150	Pennsylvania	3,356	2,284
Delaware	60	3,372	Rhode Island	279	1,945
Florida	124	6,070	South Carolina	84	1,040
Georgia	238	10,963	South Dakota	149	3,919
Idaho	94	3,464	Tennessee	210	10,404
Illinois	3,441	1,639	Texas	550	7,085
Indiana	776	3,481	Utah	122	3,060
Iowa	660	3,371	Vermont	67	5,312
Kansas	458	3,692	Virginia	276	7,470
Kentucky	238	9,621	Washington	538	2,123
Louisiana	204	8,120	West Virginia	209	5,843
Maine	128	5,800	Wisconsin	801	2,914
Maryland	315	4,112	Wyoming	38	3,841
Massachusetts	2,231	1,509			
Michigan	1,054	2,666	Alaska	5	12,871
Minnesota	609	3,408	Canal Zone	14	.....
Mississippi	101	17,793	District of Columbia	271	1,229
Missouri	1,152	2,859	Hawaii	30	6,397
Montana	116	3,242	Philippine Islands	9	.....
Nebraska	304	3,922	Porto Rico	4	279,503
Nevada	36	2,274	United States Army	5	.....
New Hampshire	101	4,263	United States Navy	17	.....
New Jersey	1,683	1,508			
New York	5,103	1,786	Total	[1]33,050	
New Mexico	64	5,114			

[1] Not including 158 reissues and 34 withdrawn.

Patents granted to citizens of foreign countries.

Argentina	9	Dutch East Indies	1	Madeira Island	2	Spanish Honduras	1
Austria-Hungary	160	Egypt	3	Mexico	36	Straits Settlements	1
Azores	1	England	952	Netherlands	21	Sweden	102
Barbados	1	Fiji Islands	1	Newfoundland	3	Switzerland	125
Belgium	46	France	369	New South Wales	39	Tasmania	4
Bermuda	1	Germany	1,558	New Zealand	40	Transvaal	25
Brazil	10	Gibraltar	1	Norway	23	Tunis	1
British West Indies	3	Greece	1	Persia	1	Turkey	1
Canada	579	Guatemala	6	Peru	3	Uruguay	2
Canary Islands	1	Haiti	1	Queensland	10	Venezuela	3
Cape Colony	3	India	7	Roumania	3	Victoria	44
China	2	Ireland	14	Russia	47	West Australia	6
Colombia	1	Italy	66	Scotland	74		
Cuba	15	Jamaica	1	South Australia	3	Total	4,489
Denmark	34	Japan	14	Spain	8		

The following tables present a comparative statement of the business of the Patent Office since the enactment of the statute of 1836 and exhibit in detail the business of the office during the last calendar year:

Comparative statement of the business of the Office from 1837 to 1912, inclusive.

Year.	Applications.	Caveats filed.	Patents and reissues.	Cash received.	Cash expended.	Surplus.
1837	.....	.....	435	$29,289.08	$33,506.98	.....
1838	.....	.....	520	42,123.54	37,338.92	$4,784.62
1839	.....	.....	425	38,019.97	34,543.51	3,476.46
1840	765	228	473	38,056.51	39,020.67	.....
1841	847	312	495	40,413.01	52,666.87	.....
1842	761	291	517	36,505.63	31,241.43	5,264.20
1843	819	315	519	35,315.81	30,776.96	4,538.85
1844	1,045	380	497	42,509.26	36,344.53	6,164.73
1845	1,246	452	503	51,076.14	39,395.65	11,680.49
1846	1,272	448	638	50,264.16	46,158.71	4,105.45
1847	1,531	533	569	63,111.19	41,878.35	21,232.84
1848	1,628	607	653	67,576.69	58,905.84	8,670.85
1849	1,955	595	1,077	80,752.78	77,716.44	3,036.34
1850	2,193	602	993	86,927.05	80,100.95	6,826.10
1851	2,258	760	872	95,738.61	86,916.93	8,821.68
1852	2,639	996	1,019	112,056.34	95,916.91	16,139.43
1853	2,673	901	961	121,527.45	132,869.83	.....
1854	3,324	868	1,844	163,789.84	167,146.32	.....
1855	4,435	906	2,013	216,459.35	179,540.33	36,919.02
1856	4,960	1,024	2,505	192,588.02	199,931.02	.....
1857	4,771	1,010	2,896	196,132.01	211,582.09	.....
1858	5,364	943	3,710	203,716.16	193,193.74	10,522.42
1859	6,225	1,079	4,538	245,942.15	210,278.41	35,663.74
1860	7,653	1,084	4,819	256,352.59	252,820.80	3,531.79
1861	4,643	700	3,340	137,354.44	221,491.91	.....
1862	5,038	824	3,521	215,754.99	182,810.39	32,944.06
1863	6,014	787	4,170	195,593.29	189,414.14	6,179.15
1864	6,972	1,063	5,020	240,919.98	229,868.00	11,051.98
1865	10,664	1,932	6,616	348,791.84	274,199.34	74,592.50

Comparative statement of the business of the Office from 1837 to 1912, inclusive—Continued.

Year.	Applications.	Caveats filed.	Patents and reissues.	Cash received.	Cash expended.	Surplus.
1866	15,269	2,723	9,450	$495,665.38	$361,724.28	$133,941.10
1867	21,276	3,597	13,015	646,581.92	639,263.32	7,318.60
1868	20,445	3,705	13,378	681,565.86	628,679.77	52,886.09
1869	19,271	3,624	13,986	693,145.81	486,430.74	206,715.07
1870	19,171	3,273	13,321	669,456.76	557,147.19	112,309.57
1871	19,472	3,366	13,033	678,716.46	562,091.64	116,624.82
1872	18,246	3,090	13,590	699,726.39	665,595.00	34,131.39
1873	20,414	3,248	12,864	703,191.77	691,178.98	12,012.79
1874	21,602	3,181	13,599	738,278.17	679,288.41	58,959.76
1875	21,638	3,094	14,837	743,453.36	721,657.71	21,795.65
1876	21,425	2,697	15,595	757,987.65	652,542.60	105,445.05
1877	20,308	2,809	14,187	732,342.85	613,152.62	119,190.23
1878	20,260	2,755	13,444	725,375.55	593,082.89	132,292.66
1879	20,059	2,620	13,213	703,931.47	529,638.97	174,292.50
1880	23,012	2,490	13,947	749,685.32	538,865.17	210,820.15
1881	26,059	2,406	16,584	853,665.89	605,173.28	248,492.61
1882	31,522	2,553	19,267	1,009,219.45	683,867.67	325,351.78
1883	34,576	2,741	22,383	1,146,240.00	675,234.86	471,005.14
1884	35,600	2,582	20,413	1,075,798.80	970,579.76	105,219.04
1885	35,717	2,552	24,233	1,188,089.15	1,024,378.85	163,710.30
1886	35,968	2,513	22,508	1,154,551.40	992,503.45	162,047.95
1887	35,613	2,622	21,477	1,144,509.60	994,472.22	150,037.38
1888	35,797	2,251	20,506	1,118,516.10	973,108.78	145,407.32
1889	40,575	2,481	24,158	1,281,728.05	1,052,955.96	228,772.09
1890	41,048	2,311	26,292	1,340,372.66	1,099,297.74	241,074.92
1891	40,552	2,408	23,244	1,271,285.78	1,139,713.35	131,572.43
1892	40,753	2,290	23,559	1,286,331.88	1,110,739.24	175,592.59
1893	38,473	2,247	23,769	1,242,871.64	1,141,038.45	101,833.19
1894	38,439	2,286	20,867	1,187,439.58	1,100,047.12	87,392.46
1895	40,680	2,415	22,057	1,245,246.93	1,106,389.49	138,857.44
1896	43,982	2,271	23,373	1,324,059.83	1,113,413.71	210,646.12
1897	47,905	2,176	23,794	1,375,641.72	1,122,843.13	252,798.59
1898	35,842	1,659	22,267	1,137,734.48	1,136,196.20	1,538.28
1899	41,443	1,716	25,527	1,325,457.03	1,211,783.73	113,673.30
1900	41,980	1,731	26,499	1,350,828.53	1,260,019.62	90,808.91
1901	46,449	1,842	27,373	1,449,398.16	1,297,385.64	152,012.52
1902	49,641	1,851	27,886	1,552,859.08	1,393,345.54	159,513.54
1903	50,213	1,771	31,699	1,642,201.81	1,448,645.81	193,156.00
1904	52,143	1,808	30,934	1,657,326.53	1,476,000.38	181,326.15
1905	54,971	1,896	30,399	1,806,758.14	1,479,633.22	327,124.92
1906	56,482	1,885	31,965	1,790,921.38	1,554,891.20	236,030.18
1907	58,762	1,967	36,620	1,910,618.14	1,631,458.36	279,159.78
1908	61,475	2,110	33,682	1,896,847.67	1,712,303.42	184,544.25
1909	65,839	1,948	37,421	2,042,828.14	1,955,151.14	87,677.00
1910	64,629	970	35,930	2,025,536.69	2,005,711.94	19,824.75
1911	69,121	.....	34,084	2,019,388.03	1,953,689.91	65,698.12
1912	70,976	.....	37,731	2,118,158.30	2,022,066.11	96,092.19

Statement showing the number of the first patent, design patent, and reissued patent, and the number of the first certificate of registration of a trade-mark, label, and print issued in each calendar year since July 28, 1836, when the present series of numbers of letters patent commenced, together with the total number of each issued during the year.

[The number of patents granted prior to the commencement of this series of numbering (July 28, 1836) was 9,957.]

Calendar year.	Number of first patent and certificate issued in each calendar year.						Number of patents and certificates of registration issued during each calendar year.							
	Patents.	Designs.	Reissues.	Trade-marks.	Labels.	Prints.	Patents.	Designs.	Reissues.	Total patents.	Trade-marks.	Labels.	Prints.	Total certificates.
1836 (July 28)	1						109							
1837	110						436							
1838	546		1				515		6					
1839	1,061		7				404		13					
1840	1,465		20				458		10					
1841	1,923		30				490		6					
1842	2,413		36				488		13					
1843	2,901	1	49				494	14	11	519				
1844	3,395	15	60				478	12	7	497				
1845	3,873	27	67				475	17	11	503				
1846	4,348	44	78				566	59	13	638				
1847	4,914	103	91				495	60	14	569				
1848	5,409	163	105				584	46	23	653				
1849	5,993	209	128				988	49	30	1,067				
1850	6,981	258	158				884	83	26	993				
1851	7,865	341	184				757	90	25	872				
1852	8,622	431	209				890	109	20	1,019				
1853	9,512	540	229				846	86	29	961				
1854	10,358	626	258				1,759	57	28	1,844				
1855	12,117	683	286				1,892	70	51	2,013				
1856	14,009	753	337				2,315	107	83	2,505				
1857	16,324	860	420				2,686	113	97	2,896				
1858	19,010	973	517				3,467	102	126	3,695				
1859	22,477	1,075	643				4,165	108	231	4,504				
1860	26,642	1,183	674				4,363	183	232	4,778				
1861	31,005	1,366	1,106				3,040	142	147	3,329				
1862	34,045	1,508	1,253				3,221	195	116	3,532				

Statement showing the number of the first patent, design patent, and reissue patent, etc.—Continued.

Calendar year.	Number of first patent and certificate issued in each calendar year.						Number of patents and certificates of registration issued during each calendar year.							
	Patents.	Designs.	Reissues.	Trade-marks.	Labels.	Prints.	Patents.	Designs.	Reissues.	Total patents.	Trade-marks.	Labels.	Prints.	Total certificates.
1863	37,266	1,703	1,369	.....	.....	.....	3,781	176	227	4,184	.....	.....	.....	.....
1864	41,047	1,879	1,596	.....	.....	.....	4,638	139	248	5,025	.....	.....	.....	.....
1865	45,685	2,018	1,844	.....	.....	.....	6,099	221	296	6,616	.....	.....	.....	.....
1866	51,784	2,239	2,140	.....	.....	.....	8,874	294	290	9,458	.....	.....	.....	.....
1867	60,658	2,533	2,430	.....	.....	.....	12,301	325	400	13,026	.....	.....	.....	.....
1868	72,959	2,858	2,830	.....	.....	.....	12,544	446	420	13,410	.....	.....	.....	.....
1869	85,503	3,304	3,250	.....	.....	.....	12,957	506	534	13,997	.....	.....	.....	.....
1870	98,460	3,810	3,784	1	.....	.....	12,157	737	439	13,333	121	.....	.....	121
1871	110,617	4,547	4,223	122	.....	.....	11,687	905	464	13,056	486	.....	.....	486
1872	122,304	5,452	4,687	608	.....	.....	12,200	884	529	13,613	491	.....	.....	491
1873	134,504	6,336	5,216	1,099	.....	.....	11,616	747	501	12,864	492	.....	.....	492
1874	146,120	7,083	5,717	1,591	1	First print registered Mar. 7, 1893.	12,230	886	483	13,599	559	232	.....	791
1875	158,350	7,969	6,200	2,150	233		13,291	915	631	14,837	1,138	232	.....	1,370
1876	171,641	8,884	6,831	3,283	465		14,172	802	621	15,595	959	472	.....	1,431
1877	185,813	9,686	7,452	4,247	937		12,920	699	568	14,187	1,216	392	.....	1,608
1878	198,733	10,385	8,020	5,463	1,329		12,345	590	509	13,444	1,455	492	.....	1,947
1879	211,078	10,975	8,529	6,918	1,821		12,133	592	488	13,213	872	355	.....	1,227
1880	223,211	11,567	9,017	7,790	2,176		12,926	515	506	13,947	349	203	.....	552
1881	236,137	12,082	9,523	8,139	2,379		15,548	565	471	16,584	834	202	.....	1,036
1882	251,685	12,647	9,994	8,973	2,581		18,135	861	271	19,267	947	304	.....	1,251
1883	269,820	13,508	10,265	9,920	2,885		21,196	1,020	167	22,383	902	906	.....	1,808
1884	291,016	14,528	10,432	10,822	3,791		19,147	1,150	116	20,413	1,021	513	.....	1,534
1885	310,163	15,678	10,548	11,843	4,304		23,331	773	129	24,233	1,067	391	.....	1,458
1886	333,494	16,451	10,677	12,910	4,695		21,797	595	116	22,508	1,029	378	.....	1,407
1887	355,291	17,046	10,793	13,939	5,073		20,429	949	99	21,477	1,133	380	.....	1,513
1888	375,720	17,995	10,892	15,072	5,453		19,585	835	86	20,506	1,059	327	.....	1,386
1889	395,305	18,830	10,978	16,131	5,780		23,360	723	75	24,158	1,229	319	.....	1,548
1890	418,665	19,553	11,053	17,360	6,099		25,322	886	84	26,292	1,415	304	.....	1,719
1891	443,987	20,439	11,137	18,775	6,403		22,328	836	80	23,244	1,762	137	.....	1,899
1892	466,315	21,275	11,217	20,537	6,540		22,661	817	81	23,559	1,737	[1] 6	.....	1,743
1893	488,976	22,092	11,298	22,274	None.	1	22,768	902	99	23,769	1,677	None.	2	1,679
1894	511,744	22,994	11,397	23,951	None.	3	19,875	928	64	20,857	1,806	None.	4	1,810
1895	531,619	23,922	11,461	25,757	None.	7	20,883	1,115	59	22,057	1,829	None.	3	1,832
1896	552,502	25,037	11,520	27,586	6,546	10	21,867	1,445	61	23,273	1,813	1	32	1,846
1897	574,369	26,482	11,581	29,399	6,547	42	22,098	1,631	65	23,794	1,671	14	16	1,701
1898	596,467	28,113	11,646	31,070	6,561	58	20,404	1,803	60	22,267	1,238	200	35	1,473
1899	616,871	29,916	11,706	32,308	6,761	93	23,296	2,139	92	25,527	1,649	511	100	2,260
1900	640,167	32,055	11,798	33,957	7,272	193	24,660	1,758	81	26,499	1,721	737	93	2,551
1901	664,827	33,813	11,879	35,678	8,009	286	25,558	1,734	81	27,373	1,928	878	159	2,965
1902	690,385	35,547	11,960	37,606	8,887	445	27,136	640	110	27,886	2,006	767	158	2,931
1903	717,521	36,187	12,070	39,612	9,654	603	31,046	536	117	31,699	2,186	990	270	3,446
1904	748,567	36,723	12,189	41,798	10,644	873	30,267	557	110	30,934	2,158	1,114	297	3,569
1905	778,834	37,280	12,299	43,956	11,758	1,170	29,784	486	129	30,399	4,490	830	359	5,679
1906	808,618	37,766	12,428	48,446	12,588	1,529	31,181	625	159	31,965	10,568	709	656	11,933
1907	839,799	38,391	12,587	59,014	13,297	1,874	35,880	589	151	36,620	7,878	667	315	8,860
1908	875,679	38,980	12,738	66,892	13,964	2,189	32,757	757	168	33,682	5,191	618	220	6,029
1909	908,436	39,737	12,906	72,083	14,582	2,409	36,574	687	160	37,421	4,184	492	148	4,824
1910	945,010	40,424	13,066	76,267	15,074	2,557	35,168	639	123	35,930	4,239	370	120	4,729
1911	980,178	41,063	13,189	80,506	15,444	2,677	32,917	1,010	157	34,084	4,205	659	248	5,112
1912	1,013,095	42,073	13,346	84,711	16,103	2,925	36,231	1,342	158	37,731	5,020	633	243	5,896

[1] Registration of labels practically suspended May 27, 1891, under decision of the United States Supreme Court in *Higgins et al.* v. *Keuffel et al.* (55 O. G., 1139) with the registration of No. 6,545, June 14, 1892. Resumed June 9, 1896, with the registration of No. 6,546.

Expenditures for photolithographic and photographic work since 1906–7.

Fiscal year.	Contractor.	Price per page.				Total.
		Current issue.	Reproduction of exhausted copies.	Library edition.	Photographic copies.	
1906–1907	Norris Peters Co.	[1] $0.80 [2] .65				$140,000.00
	Norris Peters Co.		[3] $0.57 [4] .85			
	A. B. Graham Co.			[5] $1.22		
	E. L. Parker				[6] $0.08 [7] .13	
1907–1908	Norris Peters Co.	[1] .77 [2] .64				140,000.00
	J. A. Eckert		[3] .50 [4] .67			
	Columbia Planograph Co.			[5] 1.15		
	H. A. Farnham				[8] .09 [7] .13	

Expenditures for photolithographic and photographic work since 1906–7—Continued.

Fiscal year.	Contractor.	Price per page. Current issue.	Reproduction of exhausted copies.	Library edition.	Photographic copies.	Total.
1908–1909	Norris Peters Co	[1] $0.71½ [2] .57½				$140,000.00
	Sackett & Wilhelms Co		Spec. [3] $0.42½ [4] .53 Drg. [3] .43½ [4] .55			
	Columbia Planograph Co			[5] $0.98		
	F. W. Ernst				[8] $0.12	
	C. Parker				[7] .16	
1909–1910	A. B. Graham Co	[1] .74				140,000.00
	A. B. Graham Co			[5] 1.00		
	Norris Peters Co	[2] .61				
	Sackett & Wilhelms Co		[3] .44½ [4] .57			
	F. W. Ernst				[8] .12	
	Leet Brothers				[7] .15	
1910–1911	Norris Peters Co	[1] .79				140,000.00
	Webb & Bocorselski	[2] .52				
	Sackett & Wilhelms Co		[3] .49½ [4] .58			
	Sackett & Wilhelms Co			[5] .95		
	Leet Bros				[8] .11½ [7] .11½	
1911–1912	Columbia Planograph Co	[1] .73 [10] .50				140,000.00
	Sackett & Wilhelms Co		[3] .50½ [4] .60			
	Sackett & Wilhelms Co			[5] .89		
	F. W. Ernst				[8] .09¾ [7] .10¾	
1912–1913	Columbia Planograph Co	[1] .63 [2] .50				[9]140,000.00
	Sackett & Wilhelms Co		[3] .52 [4] .60			
	F. W. Ernst				[8] .09 [7] .10	

[1] For 100 thin, 2 thick, and 1 bond copies.
[2] For 50 thin, 2 thick, and 1 bond copies of trade-marks and designs.
[3] For 50 copies each, mechanical and design patents and trade-marks.
[4] For 100 copies each, mechanical and design patents and trade-marks.
[5] For 150 copies.
[6] Size, 7 x 11 in.
[7] Size, 10 x 15 in.
[8] Size, 8 x 12½ in.
[9] Estimated.
[10] Designs.

Number of patents issued by the United States and foreign countries from the earliest period to December 31, 1912.

[Foreign figures for 1912 estimated.]

Country.	To 1871, inclusive.	1871 to 1912.	Total.
Argentina	83	11,282	11,365
Australia		12,004	12,004
Austria		76,143	76,143
Austria-Hungary	15,350	67,583	82,933
Bahamas		2	2
Barbados		150	150
Belgium	35,044	255,115	260,159
Bolivia	42	65	107
Brazil	185	7,931	8,116
British Guiana	32	94	126
British Honduras	1	19	20
Canada	4,081	146,608	150,689
Ceylon	58	764	822
Chile	266	2,274	2,540
Colombia		1,043	1,043
Congo Free State		259	259
Costa Rica		67	67
Cuba		1,374	1,374
Denmark	464	23,760	24,224
Ecuador		10	10
Fiji Islands		45	45
Finland	112	4,364	4,476
France	103,934	368,466	472,400
Germany	9,996	262,073	272,069
Great Britain	53,408	404,735	458,143
Guatemala		57	57
Hawaii		148	148
Hongkong		210	210
Hungary		54,874	54,874
India	445	12,262	12,707
Italy and Sardinia	4,723	111,137	115,860
Jamaica	22	249	271
Japan		23,210	23,210
Leeward Islands		26	26
Liberia		2	2
Luxemburg		9,798	9,798
Malta		94	94
Mauritius	113	297	410
Mexico	22	12,322	12,344
Netherlands	4,535		4,535
Newfoundland	40	433	473
New South Wales	236	11,740	11,976
New Zealand	109	15,078	15,187
Norway	737	23,849	24,586
Paraguay		95	95
Peru		160	160
Portugal	245	7,693	7,938
Queensland	67	6,368	6,435
Russia	1,464	28,999	30,463
St. Helena		4	4
South African Republics		1,262	1,262
South Australia	123	6,221	6,344
Spain		49,611	49,611
Straits Settlements		289	289
Sweden	1,629	36,206	37,835
Switzerland		57,659	57,569
Tasmania	43	2,426	2,469
Transvaal		3,355	3,355
Trinidad	6	236	242
Tunis		941	941
Turkey		2,260	2,260
Uruguay		420	420
Venezuela		258	258
Victoria	822	12,462	13,285
West Australia		3,524	3,524
Total foreign	238,437	2,112,466	2,350,903
United States	120,573	938,709	[1] 1,059,282
Grand total	359,010	3,051,175	3,410,185

[1] Including 9,957 patents issued prior to July 1, 1836.

The following comparison between the receipts, expenditures, applications filed, issues of the Office, the printed copies sold, copies of records furnished, and the number of employees for the years ended, respectively, December 31, 1899, and December 31, 1912, illustrates the growth of the business of the Patent Office:

Class.	1899.	1912.	Increase.	Percentage of increase.
Receipts	$1,325,457.03	$2,118,158.30	$792,701.27	59.8
Expenditures	$1,211,783.73	$2,022,066.11	$810,282.38	66.8
Applications (including caveats in 1899)	45,990	79,385	33,395	72.6
Letters patent, design and reissue patents granted, and trade-marks, labels, and prints registered	27,787	43,627	15,840	57
Printed copies of patents sold	1,451,519	2,437,441	985,922	67.9
Price received	$50,201.11	$112,283.25	$62,082.14	123.6
Words written in copies of records furnished	13,575,650	28,355,700	14,780,050	108.8
Number of employees	663	939	276	41.6

In 1912 there were received 68,968 applications for mechanical patents, 1,850 applications for design patents, 158 applications for reissues of patents, 7,215 applications for registration of trade-marks, 885 applications for registration of labels, and 309 applications for registration of prints. There were 37,573 patents issued, including designs, 158 patents reissued, and 5,020 trade-marks, 633 labels, and 243 prints registered. The number of patents that expired was 20,883. The number of allowed applications awaiting the payment of final fees was 13,303, and the number forfeited for non-payment of the final fees 7,494. The total receipts were $2,118,158.30, the expenditures $2,022,066.11, and the surplus of receipts over expenditures $96,092.19. The total balance to the credit of the Patent Office in the Treasury of the United States on December 31, 1912, was $7,160,017.95.

In proportion to population more patents were issued to citizens of Connecticut than to those of any other State—1 to every 1,150. Next in order are the following: District of Columbia, 1 to every 1,229; California, 1 to every 1,434; New Jersey, 1 to every 1,508; Massachusetts, 1 to every 1,509; Illinois, 1 to every 1,639; Colorado, 1 to every 1,711; New York, 1 to every 1,786; Rhode Island, 1 to every 1,945; Ohio, 1 to every 1,991; Washington, 1 to every 2,123; Nevada, 1 to every 2,274; Pennsylvania, 1 to every 2,284; Oregon, 1 to every 2,420; Michigan, 1 to every 2,666; Missouri, 1 to every 2,859; Wisconsin, 1 to every 2,914; Utah, 1 to every 3,060; Arizona, 1 to every 3,144; Montana, 1 to every 3,242; Iowa, 1 to every 3,371; Delaware, 1 to every 3,372; Minnesota, 1 to every 3,408; Idaho, 1 to every 3,464; Indiana, 1 to every 3,481; Kansas, 1 to every 3,692; North Dakota, 1 to every 3,822; Wyoming, 1 to every 3,841; South Dakota, 1 to every 3,919; Nebraska, 1 to every 3,922; Maryland, 1 to every 4,112; New Hampshire, 1 to every 4,263; New Mexico, 1 to every 5,114; Vermont, 1 to every 5,312; Maine, 1 to every 5,800; West Virginia, 1 to every 5,843; Florida, 1 to every 6,070; Hawaii, 1 to every 6,397; Oklahoma, 1 to every 6,398; Texas, 1 to every 7,085; Virginia, 1 to every 7,470; Louisiana, 1 to every 8,120; Kentucky, 1 to every 9,621. The fewest patents granted in proportion to the number of inhabitants were in the following States and Territories: Porto Rico, 1 to every 279,503; South Carolina, 1 to every 18,040; Mississippi, 1 to every 17,793; North Carolina, 1 to every 13,133; Alaska, 1 to every 12,871; Alabama, 1 to every 11,813; Arkansas, 1 to every 11,663; Georgia, 1 to every 10,963, and Tennessee, 1 to every 10,404.

As to foreign patents, 1,558 were granted to citizens of Germany; 952 to those of England; 579 to those of Canada; 369 to those of France; 160 to those of Austria-Hungary; 125 to those of Switzerland; 102 to those of Sweden; 74 to those of Scotland; 66 to those of Italy; 47 to those of Russia; 46 to those of Belgium; 44 to those of Victoria; 40 to those of New Zealand; 39 to those of New South Wales; 36 to those of Mexico; 34 to those of Denmark; 25 to those of Transvaal; 23 to those of Norway; 21 to those of the Netherlands; 15 to those of Cuba; 14 each to those of Ireland and Japan; 10 each to those of Brazil and Queensland; 9 to those of Argentina; 8 to those of Spain; 7 to those of India; 6 each to those of Guatemala and West Australia; 4 to those of Tasmania; 3 each to those of British West Indies, Cape Colony, Egypt, Newfoundland, Peru, Roumania, South Australia, and Venezuela; 2 each to those of China, Madeira Island, and Uruguay; 1 each to those of the Azores, Barbados, Bermuda, Canary Islands, Colombia, Dutch East Indies, Fiji Islands, Gibraltar, Greece, Haiti, Jamaica, Persia, Spanish Honduras, Straits Settlements, Tunis, and Turkey.

Respectfully submitted.

EDWARD B. MOORE,
Commissioner of Patents.

ALPHABETICAL LIST

OF

PATENTEES FOR THE YEAR 1912.

Patentees of Designs, Trade-Marks, Labels, and Prints, and parties who have filed Disclaimers follow this in separate indexes, but precede the Alphabetical List of Inventions.]

[Abbreviations: "Sp."=Monthly Volume of Specifications; "Gaz."=Official Gazette.]

A. Edström & Co. (See Edström and Andersson, assignors.)
A. Garrison Foundry Company. (See Shaw and Morse, assignors.)
A. Kimball Company. (See Brewington, Henry S., assignor.)
A. Kimball Company. (See Edwards, John C., assignor.)
A. Leschen & Sons Rope Company. (See Engle, David E., assignor.)
A. Mecky Company, The. (See Pursglove, William T., assignor.)
A. Perlman Iron Works. (See Perlman, Abraham, assignor.)
A. Schrader's Son. (See Twitchell, Charles R., assignor.)
A. Schrader's Son. (See Vahle, Ernest, assignor.)
A. B. Chase Company, The. (See Cooper and Chase, assignors.)
A. B. Dick Company. (See Dick, Albert B., assignor.)
A. B. Dick Company. (See Edmonds, Samuel O., assignor.)
A. B. Dick Company. (See Quentell and Judge, assignors.)
A. C. Clark & Company. (See Clark, Albert C., assignor.)
A. C. Dallas & Son. (See Beebe, John D., assignor.)
A. E. Hill Manufacturing Company. (See Hill, Albert E., assignor.)
A. F. Meisselbach & Brother. (See Catucci, Pliny, assignor.)
A. G. Eyles Chair Company. (See Eyles, Anton G., assignor.)
A. G. Morse Company. (See Hodgson, Christopher P., assignor.)
A. G. Spalding & Bros. (See Clarke, Frederick C., assignor.)
A. G. Spalding & Bros. (See O'Shea, Dennis C., assignor.)
A. G. Spalding & Bros. Manf'g Co. (See Couture, Anthony, assignor.)
A. G. Spalding & Bros. Manf'g. Co. (See Murphy, Michael C., assignor.)
A. G. Spalding & Bros. Manf'g Co. (See Reach, Milton B., assignor.)
A. G. Spalding & Bros. Manf'g Co. (See Reach, Milton B. and W. F., assignors.)
A. H. & F. H. Lippincott. (See Lippincott, Fisher H., assignor.)
A. H. Fox Gun Company. (See Kremer and Fox, assignors.)
A. H. Fox Gun Company. (See Russell, Frederick T., assignor.)
A. H. Heisey & Co. (See Heisey and Sanford, assignors.)
A. H. Heisey & Co. (See Sanford, Andrew J., assignor.)
A. J. Ellis, Inc. (See Ellis, Alfred J., assignor.)
A. J. Ellis, Inc. (See Ellis and Nellis, assignors.)
A. J. Lindemann & Hoverson Co. (See Hoya, Ferdinand A., assignor.)
A. J. Lindemann & Hoverson Co. (See Lindemann, Albert J., assignor.)
A. J. Lindemann & Hoverson Co. (See Pfeil, Philip, assignor.)
A. J. Logan Company. (See Harrison and Wilting, assignors.)
A. & J. Manufacturing Co., The. (See Johnson, Edward H., assignor.)
A. & J. Mfg. Company. (See Jackson, William A., assignor.)
A. J. Phillips Company, The. (See McCollom, Burton R., assignor.)
A. R. Mosler & Co. (See Le Pontois, Leon, assignor.)
A. R. Mosler & Co. (See Mosler, Arthur R., assignor.)
A. S. Cameron Steam Pump Works. (See Sebald, Joseph H., assignor.)
A. V. Manufacturing Co. (See Heath, Walter D., assignor.)
Aabel, John T., assignor to Monarch Rotary Engine Company, San Francisco, Cal. Rotary engine. No. 1,028,848; June 11; Sp. p. 1677; Gaz. vol. 179; p. 295.
Aachener Stahlwaarenfabrik Fafnir-Werke Aktiengesellschaft. (See Uren, Gustav H. W., assignor.)
Aalborg, Christian, Wilkinsburg, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Wheel-brake. No. 1,024,489; Apr. 30; Sp. p. 5853; Gaz. vol. 177; p. 1051.
Aalborg, Christian, Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Fan-motor oscillator. No. 1,039,682; Oct. 1; Gaz. vol. 183; p. 3.
Aalborg, Christian, Wilkinsburg, and O. Schaumberg, Pittsburgh, assignors, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Transformer. No. 1,035,069; Aug. 6; Gaz. vol. 181; p. 222.
Abadie-Léotard, Edouard, Paris, France. Hernial bandage. No. 1,035,764; Aug. 13; Gaz. vol. 181; p. 491.
Abbe, Walter, Brooklyn, N. Y. Electric-lamp socket. No. 1,020,245; Mar. 12; Sp. p. 2642; Gaz. vol. 176; p. 448.
Abbett, Charles H. (See Epperson, Landy D., assignor.)
Abbott, Ambrose E., Los Angeles, assignor of one-half to F. A. Weast, Modesto, Cal. Sad-iron. No. 1,027,969; May 28; Sp. p. 6326; Gaz. vol. 178; p. 1085.
Abbott, Ambrose F. (See Ellsworth and Abbott.)
Abbott, Augustus, assignor to Abbott Coin Counter Company, New York, N. Y. Coin-packaging device. No. 1,025,228; May 7; Sp. p. 261; Gaz. vol. 178; p. 43.
Abbott, Augustus, assignor to Abbott Coin Counter Company, New York, N. Y. Coin counting and packaging device. No. 1,037,405; Sept. 3; Gaz. vol. 182; p. 76.
Abbott, Benjamin F., Lisbon Falls, Me. Warping-cleaver for looms. No. 1,023,703; Apr. 16; Sp. p. 4106; Gaz. vol. 177; p. 721.
Abbott, Charles C., assignor to Triumph Voting Machine Company, Pittsfield, Mass. Voting-machine key. No 1,013,355; Jan. 2; Sp. p. 590; Gaz. vol. 174; p. 94.
Abbott, Claude H., Lisbon, N. D. Gas-purifier. No. 1,028,419; June 4; Sp. p. 781; Gaz. vol. 179; p. 118.
Abbott Coin Counter Company. (See Abbott, Augustus, assignor.)
Abbott, Delon H., Vandemere, N. C. Cultivating-machine. No. 1,023,704; Apr. 16; Sp. p. 4108; Gaz. vol. 177; p. 721.
Abbott, George E., Hartford, Conn. Ball-rolling machine. No. 1,017,125; Feb. 13; Sp. p. 1996; Gaz. vol. 175; p. 343.
Abbott, Harry F., Jackson, Mich. Fence-post. No. 1,013,578; Jan. 2; Sp. p. 1050; Gaz. vol. 174; p. 169.
Abbott, James H., Philadelphia, Pa. Guard-sleeve for dental spindles. No. 1,030,856; July 2; Gaz. vol. 180; p. 3.
Abbott, Jason O., Hebron, Ohio. Railway-tie. No. 1,020,173; Mar. 12; Sp. p. 2487; Gaz. vol. 176; p. 424.

Alphabetical list of patentees—Continued.

Abbott, Linn B., assignor to Harvey Hubbell, Incorporated, Bridgeport, Conn. Electric switch. No. 1,022,809; Apr. 9; Sp. p. 2267; Gaz. vol. 177; p. 388.
Abbott, Roy C. (See Ellsworth and Abbott.)
Abel, John A., Woodhaven, N. Y. Mounting or setting. No. 1,024,048; Apr. 23; Sp. p. 4887; Gaz. vol. 177; p. 866.
Abell, Rollin, Boston, Mass. Supporting device for speedometer-driving mechanism. No. 1,018,542; Feb. 27; Sp. p. 5169; Gaz. vol. 175; p. 899.
Abell, Rollin, Boston, Mass. Speed-indicating instrument. No. 1,045,111; Nov. 26; Gaz. vol. 184; p. 809.
Abels, Robert. (See Inhülsen, Bernhard, assignor.)
Aber, David L., Pittsburgh, Pa. Surgical instrument. No. 1,031,314; July 2; Gaz. vol. 180; p. 164.
Abercrombie, Charles M., Bridgeport, Conn., assignor to The Singer Manufacturing Company. Overedge sewing and cutting machine. No. 1,025,441; May 7; Sp. p. 749; Gaz. vol. 178; p. 116.
Abercrombie, William R., Bridgeport, Conn., assignor to The Singer Manufacturing Company. Seam-trimmer and edge-binder for sewing-machines. No. 1,015,922; Jan. 30; Sp. p. 6222; Gaz. vol. 174; p. 1085.
Abercrombie, William R., Bridgeport, Conn., assignor to The Singer Manufacturing Company. Sewing-machine cloth-presser. No. 1,016,597; Feb. 6; Sp. p. 840; Gaz. vol. 175; p. 126.
Abernathy, Danil L., Lowell, N. C. Fishway. No. 1,047,604; Dec. 17; Gaz. vol. 185; p. 700.
Abernethy, Coleman W., Pioneer Mills, N. C. Bridge-clamp. No. 1,043,497; Nov. 5; Gaz. vol. 184; p. 162.
Abernethy, Robert, Port Moody, British Columbia, assignor of one-half to R. Hamilton, Vancouver, Canada. Drying-kiln. No. 1,038,709; Sept. 17; Gaz. vol. 182; p. 586.
Abitz, Herman T. (See Bartz and Abitz.)
Åbjörnsson, Herman Å., and N. Fredriksson, Svedala, Sweden. Apparatus for packing powdered material in cans or barrels. No. 1,049,029; Dec. 31; Gaz. vol. 185; p. 1254.
Aborn, George P., Boston, Mass., assignor to The Blake & Knowles Steam Pump Works, New York, N. Y. Air compressor and pump. No. 1,041,939; Oct. 22; Gaz. vol. 183; p. 869.
Abraham, Albert. (See Marsters and Abraham.)
Abraham, Max. (See Berger and Abraham.)
Abrahams, Isidor, Cincinnati, Ohio. Trousers-pocket. No. 1,036,054; Aug. 20; Gaz. vol. 181; p. 626.
Abrahams, Louis, Washington, D. C. Machine for applying clips to collapsible tubes. No. 1,026,234; May 14; Sp. p. 2528; Gaz. vol. 178; p. 423.
Abrahamson, Nils S. (See Master, James W., assignor.)
Abram, Ira M., Dugger, Ind. Trowel attachment. No. 1,027,396; May 28; Sp. p. 5099; Gaz. vol. 178; p. 895.
Abrams, Charles, Suffern, N. Y. Wrench. No. 1,040,835; Oct. 8; Gaz. vol. 183; p. 426.
Abrams, John A., Wadsworth, Ohio. Gas-furnace. No. 1,017,489; Feb. 13; Sp. p. 2786; Gaz. vol. 175; p. 470.
Abramson, Harry, Philadelphia, Pa. Sad-iron. No. 1,030,221; June 18; Sp. p. 4681; Gaz. vol. 179; p. 805.
Abrasive Material Company. (See Blouin, August F., assignor.)
Abresch, Eugen. (See Brune and Horst, assignors.)
Absalom, George M., Caistor Centre, Ontario, Canada. Safety balanced air-machine. No. 1,045,657; Nov. 26; Gaz. vol. 184; p. 1002.
Abtmeÿer, Theodore, Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electric heater for pipe-thawing. No. 1,015,923; Jan. 30; Sp. p. 6225; Gaz. vol. 174; p. 1085.
Abtmeyer, Theodore, Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Motor-driven fan. No. 1,018,543; Feb. 27; Sp. p. 5170; Gaz. vol. 175; p. 899.
Accident Insurance Machine Company, The. (See Melchert, Charles A., assignor.)
Ach, Lorenz, assignor to C. F. Boehringer & Soehne, Mannheim-Waldhof, Germany. Tasteless quinin compounds and making same. No. 1,032,642; July 16; Gaz. vol. 180; p. 703.
Achenbach, Albert S., Winnetoon, Nebr. Harrow attachment for plows. No. 1,030,700; June 25; Sp. p. 5948; Gaz. vol. 179; p. 1016.
Achenbach, Julius A. E. (See Pörscke and Achenbach.)
Acheson, Edward G., Stamford township, Welland county, Ontario, Canada. Refractory body and making the same. No. 1,014,199; Jan. 9; Sp. p. 2452; Gaz. vol. 174; p. 412.
Acheson, Edward G., Stamford township, Ontario, Canada. Preparing dehydrated mixtures. No. 1,030,372; June 25; Sp. p. 5040; Gaz. vol. 179; p. 899.
Achilli, Italo, Fulton, N. Y. Device for filling forms with a doughy substance containing air, as chocolate mass. No. 1,043,790; Nov. 12; Gaz. vol. 184; p. 293.
Acker, Charles E., Ossining, N. Y., assignor to The Nitrogen Company. Producing nitrogen compounds. No. 1,018,802; Feb. 27; Sp. p. 5717; Gaz. vol. 175; p. 987.
Acker, Charles E., Ossining, N. Y., assignor to The Nitrogen Company. Producing cyanogen compounds. No. 1,019,002; Feb. 27; Sp. p. 6145; Gaz. vol. 175; p. 1056.
Acker, Julius J., Horton, Kans., assignor of fifty-one one-hundredths to W. P. Murphy, Chicago, Ill., and twenty-four-and-one-half one-hundredths to C. L. Bundy, Kingsland, N. J. Slack-adjuster for brakes. No. 1,023,790; Apr. 23; Sp. p. 4269; Gaz. vol. 177; p. 777.
Ackerman, Albert A., U. S. Navy. Means for preventing the erosion of guns. No. 1,036,171; Aug. 20; Gaz. vol. 181; p. 669.
Ackerman, Bert, Chester, Vt. Rotary rasp. No. 1,023,406; Apr. 16; Sp. p. 3533; Gaz. vol. 177; p. 629.
Ackerman, Charles P., Albion, Nebr. Means for coupling railway-rails and metal beams. No. 1,047,365; Dec. 17; Gaz. vol. 185; p. 616.
Ackerman, David H. (See Sobotker and Ackerman.)
Ackerman, Douglas S., St. Johnsville, N. Y. Knob night-lock. No. 1,048,784; Dec. 31; Gaz. vol. 185; p. 1169.
Ackerman, Frederick W., assignor to Yawman & Erbe Manufacturing Company, Rochester, N. Y. Filing-cabinet. No. 1,017,239; Feb. 13; Sp. p. 2251; Gaz. vol. 175; p. 383.
Ackerman, Maurice, and A. Bleicher, Washington, D. C. Garment-hanger. No. 1,025,775; May 7; Sp. p. 1461; Gaz. vol. 178; p. 230.
Ackermann, Heinrich, Berlin, Germany. Bedstead. No. 1,016,868; Feb. 6; Sp. p. 1404; Gaz. vol. 175; p. 217.
Ackermann, Hugo, Dinslaken, Germany. Step-by-step rolling-mill. No. 1,038,710; Sept. 17; Gaz. vol. 182; p. 587.
Ackland, Thomas. (See Hoare and Ackland.)
Ackley, Albert N., Ithaca, N. Y. Puzzle. No. 1,040,091; Oct. 1; Gaz. vol. 183; p. 140.
Ackley, David S., Grand Rapids, Mich. Saw-guard. No. 1,037,843; Sept. 10; Gaz. vol. 182; p. 255.
Ackroyd, John H., Elizabeth, N. J. Cloth-board for winding fabrics thereon. No. 1,038,061; Sept. 10; Gaz. vol. 182; p. 330.
Acme Cloth Shrinking Machinery Company. (See Burgher, Francis I., assignor.)
Acme Freezer Company. (See Young, Elmer I., assignor.)
Acme Hoisting Machinery Company. (See McCune, Frank R., assignor.)
Acme Machinery Company. (See Ridlon, George H., assignor.)
Acme Pipe Clamp Company. (See Miller, William, assignor.)
Acme Refrigerating Company. (See Bossé, Adolphe E., assignor.)
Acme Service Company. (See Stevens, John C., assignor.)
Acme Supply Company. (See McKinnon, Alexander E., assignor.)
Acme Utility Company, The. (See Stockton, Lincoln C., assignor.)
Acme Wire Co., The. (See Underhill, Charles R., assignor.)
Actien Gesellschaft für Anilin Fabrikation. (See Canton, Max, assignor.)
Actien Gesellschaft für Anilin Fabrikation. (See Herzberg and Scharfenberg, assignors.)
Actien Gesellschaft für Anilin Fabrikation. (See Reinicke, Gustav, assignor.)
Actien Gesellschaft für Anilin Fabrikation. (See Schott, Heinrich, assignor.)
Actien Gesellschaft für Anilin Fabrikation. (See Wolffenstein and Colman, assignors.)
Actiengesellschaft Brown, Boveri & Cie. (See Schuetzler, Karl, assignor.)
Acton, Joseph E., *et al.* (See Smith, William E., assignor.)
Adair, Charles E., assignor to Cyphers Incubator Company, Buffalo, N. Y. Heating system for incubators. No. 1,042,635; Oct. 29; Gaz. vol. 183; p. 1132.
Adair, Charles T. (See Hardgrave and Adair.)
Adair, Lulu N., Huntsville, Tex. Curtain-pole remover. No. 1,046,047; Dec. 3; Gaz. vol. 185; p. 85.
Adair Machine Company. (See Adair, Montague, assignor.)
Adair Machine Company. (See Adair, Cameron, and Ainsworth, assignors.)
Adair, Montague, New York, assignor to Adair Machine Company, Brooklyn, N. Y. Machine for stitching handkerchiefs or the like. No. 1,026,546; May 14; Sp. p. 3188; Gaz. vol. 178; p. 527.
Adair, Montague, J. A. Cameron, and F. Ainsworth, New York, assignors to Adair Machine Company, Brooklyn, N. Y. Handkerchief-machine. No. 1,026,547; May 14; Sp. p. 3192; Gaz. vol. 178; p. 528.
Adam, Folger. (See Bates and Adam.)
Adam, Folger, Joliet, Ill. Jail-door lock and operating mechanism. No. 1,043,746; Nov. 5; Gaz. vol. 184; p. 246.
Adam, Folger, Joliet, Ill. Jail-locking device. No. 1,043,747; Nov. 5; Gaz. vol. 184; p. 247.
Adam, Folger, Joliet, Ill., assignor to Crown Iron Works Co. Jail-door-locking apparatus. No. 1,034,672; Aug. 6; Gaz. vol. 181; p. 89.
Adam, Fredrick B., assignor to Frank Adam Electric Company, St. Louis, Mo. Fastening device for panel-board cabinets. No. 1,027,397; May 28; Sp. p. 5101; Gaz. vol. 178; p. 895.

Alphabetical list of patentees—Continued.

Adam, Fredrick B., assignor to Frank Adam Electric Company, St. Louis, Mo. Bus-bar-connecting device. No. 1,030,798; June 25; Sp. p. 6225; Gaz. vol. 179; p. 1052.
Adam, George J., Chicago, Ill. Antiskidding tire. No. 1,014,357; Jan. 9; Sp. p. 2834; Gaz. vol. 174; p. 468.
Adam, George J., Chicago, Ill. Antiskidding device for tires. No. 1,014,358; Jan. 9; Sp. p. 2835; Gaz. vol. 174; p. 469.
Adam, John L., assignor to American Railway Mail Device Company, New Orleans, La. Mail-bag catcher and deliverer. No. 1,025,042; Apr. 30; Sp. p. 7074; Gaz. vol. 177; p. 1243.
Adam, Matthew A., London, England. Aeration of dough. No. 1,017,361; Feb. 13; Sp. p. 2502; Gaz. vol. 175; p. 424.
Adam, Wilhelm, Gelsenkirchen, Germany. Device for locking doors. No. 1,035,512; Aug. 13; Gaz. vol. 181; p. 406.
Adamopoulos, Aristomenes D., Springfield, Mass. Talking picture-machine. No. 1,031,315; July 2; Gaz. vol. 180; p. 165.
Adamowski, Max, Chicago, Ill. Beer-spraying device. No. 1,034,557; Aug. 6; Gaz. vol. 181; p. 52.
Adams, Abraham L., Bridgeport, Conn. Machine for folding, ironing, and spooling cloth strips. No. 1,029,962; June 18; Sp. p. 4139; Gaz. vol. 179; p. 717.
Adams, Abraham L., Bridgeport, Conn. Machine for winding cloth rolls. No. 1,032,799; July 16; Gaz. vol. 180; p. 757.
Adams, Alfred J. (See Garde and Adams.)
Adams, Alonzo T., Marseilles, assignor, by mesne assignments, to Marseilles Company, East Moline, Ill. Spout. No. 1,031,829; July 9; Gaz. vol. 180; p. 383.
Adams, Arthur A. (See Stebbins and Adams.)
Adams, Arthur H., Oak Park, Ill., assignor to The Blake & Johnson Company, Waterbury, Conn. Thread-rolling machine. No. 1,040,485; Oct. 8; Gaz. vol. 183; p. 303.
Adams, Arthur J., assignor to Fulton Manufacturing Company, Chicago, Ill. Baby-carriage or go-cart. No. 1,037,572; Sept. 3; Gaz. vol. 182; p. 134.
Adams, Arthur J., assignor to Fulton Manufacturing Company, Chicago, Ill. Go-cart or perambulator. No. 1,040,601; Oct. 8; Gaz. vol. 183; p. 346.
Adams, Arthur J., assignor to Fulton Manufacturing Company, Chicago, Ill. Go-cart or perambulator. No. 1,040,602; Oct. 8; Gaz. vol. 183; p. 346.
Adams, Arthur L., London, England. Folding camera. No. 1,036,406; Aug. 20; Gaz. vol. 181; p. 752.
Adams, Austin C., Lebanon, Ohio. Automatic safety-hook. No. 1,041,399; Oct. 15; Gaz. vol. 183; p. 649.
Adams-Bagnall Electric Company, The. (See Adams, Thomas E., assignor.)
Adams-Bagnall Electric Company, The. (See Mould, Edmund F., assignor.)
Adams-Bagnall Electric Company, The. (See Stowe, Bernard A., assignor.)
Adams, Bert M., Detroit, Mich. Leaf-turner. No. 1,021,288; Mar. 26; Sp. p. 4848; Gaz. vol. 176; p. 885.
Adams, Charles, New York, N. Y. Sanitary protector for telephone-transmitters. No. 1,017,362; Feb. 13; Sp. p. 2504; Gaz. vol. 175; p. 425.
Adams, Charles J. (See Moore, Charles A., assignor.)
Adams, Clarence E., Lebanon, Ind. Electromagnetic rock-drill and chipping-hammer. No. 1,019,213; Mar. 5; Sp. p. 455; Gaz. vol. 176; p. 72.
Adams, Clement J., *et al.* (See Tilton, John W., assignor.)
Adams & Co., J. D. (See Adams, Joseph D. and R. E., assignors.)
Adams, Conrad R., assignor to The Pierce-Arrow Motor Car Company, Buffalo, N. Y. Lubricating device. No. 1,032,724; July 16; Gaz. vol. 180; p. 732.
Adams, Daniel A., Paxinos, Pa. Sign-post. No. 1,041,224; Oct. 15; Gaz. vol. 183; p. 590.
Adams, Daniel W., Glendale Springs, N. C. Position-locating instrument. No. 1,018,150; Feb. 20; Sp. p. 4274; Gaz. vol. 175; p. 734.
Adams, Daniel W., Glendale Springs, N. C. Engineering instrument. No. 1,018,289; Feb. 20; Sp. p. 4549; Gaz. vol. 175; p. 780.
Adams, Earl T. (See White, Robert M., assignor.)
Adams, Earl T., Portsmouth, Ohio. Buttonhole-marker for shoes. No. 1,026,484; May 14; Sp. p. 3077; Gaz. vol. 178; p. 507.
Adams, Earnest E., and J. L. Dudek, Schuyler, Nebr. Pig-forceps. No. 1,023,705; Apr. 16; Sp. p. 4111; Gaz. vol. 177; p. 722.
Adams, Edward T., assignor to Allis-Chalmers Company, Milwaukee, Wis. Gas-engine cylinder. No. 1,045,766; Nov. 26; Gaz. vol. 184; p. 1039.
Adams, Edwin L., assignor of one-half to N. A. Linstrom and F. A. Westering, Edgar, Nebr. Automatic grain-weigher. No. 1,039,471; Sept. 24; Gaz. vol. 182; p. 865.
Adams & Elting Company. (See Weelands and Williams, assignors.)
Adams, Francis W. (See Anschutz, Harry, assignor.)
Adams, Frank E., Bromborough, England. Machine for seaming and folding the edges of sheet metal for and in the manufacture of boxes, canisters, and the like. No. 1,040,836; Oct. 8; Gaz. vol. 183; p. 426.
Adams, Frederick T., Victoria, British Columbia, Canada. Variable-speed-transmission device. No. 1,028,522; June 4; Sp. p. 1005; Gaz. vol. 179; p. 153.
Adams, George D., *et al.* (See Rose, Max C., assignor.)
Adams, Gideon S., Seaville, assignor to Eureka Double Resilient Tire Mfg. Co., Camden, N. J. Resilient tire. No. 1,022,220; Apr. 2; Sp. p. 988; Gaz. vol. 177; p. 159.
Adams, Henry, Owasa, Iowa. Combination square and drafting-tool. No. 1,046,362; Dec. 3; Gaz. vol. 185; p. 196.
Adams, Herbert R., Halstead, Kans. Packing attachment for disk harrows. No. 1,049,030; Dec. 31; Gaz. vol. 185; p. 1254.
Adams, James L., *et al.* (See Phillips, William R., assignor.)
Adams, John, Congo, Ohio. Metallic tie and rail-fastener. No. 1,020,392; Mar. 19; Sp. p. 2933; Gaz. vol. 176; p. 533.
Adams, John D., Phoenix, Ariz. Folding violin-bow. No. 1,027,636; May 28; Sp. p. 5568; Gaz. vol. 178; p. 973.
Adams, John Q., Jamestown, Ohio. Game-cards. No. 1,043,383; Nov. 5; Gaz. vol. 184; p. 121.
Adams, John S., Garden county, Nebr. Frameless gate. No. 1,046,929; Dec. 10; Gaz. vol. 185; p. 433.
Adams, Joseph D. and R. E., assignors to J. D. Adams & Co., Indianapolis, Ind. Road-grader. No. 1,014,989; Jan. 16; Sp. p. 4239; Gaz. vol. 174; p. 713.
Adams, Joseph W., Pasadena, Cal. Window-sash. No. 1,014,737; Jan. 16; Sp. p. 3669; Gaz. vol. 174; p. 627.
Adams, Ralph W., Spokane, Wash., and J. A. Currey, Portland, Oreg. Cutter for ribbed metal lath. No. 1,044,966; Nov. 19; Gaz. vol. 184; p. 729.
Adams-Randall, Charles, Boston, Mass. Telephone-receiver. No. 1,044,117; Nov. 12; Gaz. vol. 184; p. 406.
Adams-Randall, Charles, New York, N. Y., assignor to Randall Telephone Manufacturing Company, Augusta, Me. Telephone repeating system. No. 1,015,414; Jan. 23; Sp. p. 5140; Gaz. vol. 174; p. 883.
Adams-Randall, Charles, New York, N. Y., assignor to Randall Telephone Manufacturing Company, Augusta, Me. Automatic telephone circuit and repeater. No. 1,015,768; Jan. 30; Sp. p. 5901; Gaz. vol. 174; p. 1033.
Adams-Randall, Charles, New York, N. Y., assignor to Randall Telephone Manufacturing Company, Augusta, Me. Telephone circuit and repeating apparatus. No. 1,015,769; Jan. 30; Sp. p. 5903; Gaz. vol. 174; p. 1033.
Adams-Randall, Charles, New York, N. Y., assignor to Randall Telephone Manufacturing Company, Augusta, Me. Multiple repeating telephone system. No. 1,015,770; Jan. 30; Sp. p. 5905; Gaz. vol. 174; p. 1033.
Adams-Randall, Charles, New York, N. Y., assignor to Randall Telephone Manufacturing Company, Augusta, Me. Telephone repeating apparatus and circuits. No. 1,017,616; Feb. 13; Sp. p. 3015; Gaz. vol. 175; p. 510.
Adams-Randall, Charles, New York, N. Y., assignor to Randall Telephone Manufacturing Company, Augusta, Me. Apparatus for increasing the efficiency of telephone-lines. No. 1,017,617; Feb. 13; Sp. p. 3017; Gaz. vol. 175; p. 510.
Adams-Randall, Charles, New York, N. Y., assignor to Randall Telephone Manufacturing Company, Augusta, Me. Telephone repeating system and apparatus. No. 1,018,226; Feb. 20; Sp. p. 4422; Gaz. vol. 175; p. 760.
Adams, Robert, London, England. Self-cleansing filter for domestic water-supply. No. 1,033,858; July 30; Gaz. vol. 180; p. 1175.
Adams, Robert A. L. (See Bassick and Adams.)
Adams, Robert C., Wilton, Conn. Whistle-valve attachment for internal-combustion engines. No. 1,016,725; Feb. 6; Sp. p. 1113; Gaz. vol. 175; p. 171.
Adams, Roy E. (See Adams, Joseph D. and R. E.)
Adams, Thomas D. (See Crossley and Adams.)
Adams, Thomas E., assignor to The Adams-Bagnall Electric Company, Cleveland, Ohio. Alternating-current regulator. No. 1,024,963; Apr. 30; Sp. p. 6926; Gaz. vol. 177; p. 1217.
Adams, Thomas E., assignor to The Adams-Bagnall Electric Company, Cleveland, Ohio. Electric-arc lamp. No. 1,032,262; July 9; Gaz. vol. 180; p. 529.
Adams, Thomas E., assignor to The Adams-Bagnall Electric Company, Cleveland, Ohio. Electric-arc lamp. No. 1,032,263; July 9; Gaz. vol. 180; p. 530.
Adams, Walter S., assignor to The J. G. Brill Company, Philadelphia, Pa. Car-truck. No. 1,031,830; July 9; Gaz. vol. 180; p. 383.
Adams & Westlake Company, The. (See Carson, Charles B., assignor.)
Adams & Westlake Company, The. (See Douglas, Harry A., assignor.)
Adams & Westlake Company, The. (See Giese, James A., assignor.)
Adams & Westlake Company, The. (See Hamm, William S., assignor.)
Adams & Westlake Company, The. (See Hamm and Legge, assignors.)
Adams & Westlake Company, The. (See Hamm and Newpher, assignors.)
Adams & Westlake Company, The. (See Hamm and Schuetz, assignors.)
Adams & Westlake Company, The. (See Huston, Peter, assignor.)

Alphabetical list of patentees—Continued.

Adams & Westlake Company, The. (See Jansen, William, assignor.)
Adams & Westlake Company, The. (See Newbold, Roger M., assignor.)
Adams & Westlake Company, The. (See Newpher, Alfred H., assignor.)
Adams & Westlake Company, The. (See Patridge, Elmer L., assignor.)
Adams & Westlake Company, The. (See Peterson and McGregor, assignors.)
Adams & Westlake Company, The. (See Roth, Charles H., assignor.)
Adams & Westlake Company, The. (See Stender, John F., assignor.)
Adams & Westlake Company, The. (See Warder, Walter J., Jr., assignor.)
Adams, William C., Hartford, Conn. Arbor and cutter. No. 1,044,333; Nov. 12; Gaz. vol. 184; p. 480.
Adams, William C., assignor of one-third to T. H. Davis and E. P. Fuller, Upland, Cal. Wrench. No. 1,040,092; Oct. 1; Gaz. vol. 183; p. 140.
Adams, William E., Salem, and W. J. Murray, Beverly, Mass. Oiling device for gasolene-engines. No. 1,015,466; Jan. 23; Sp. p. 5261; Gaz. vol. 174; p. 901.
Adams, William G., Roanoke, Va. Car-dumping apparatus. No. 1,033,512; July 23; Gaz. vol. 180; p. 1034.
Adams, William M., Sabano, Tex. Seed-planter. No. 1,035,935; Aug. 20; Gaz. vol. 181; p. 586.
Adamsen, James J., Brooklyn, N. Y. Wheel. No. 1,017,363; Feb. 13; Sp. p. 2505; Gaz. vol. 175; p. 425.
Adamson, Alexander, Akron, Ohio. Vulcanizer. No. 1,013,716; Jan. 2; Sp. p. 1383; Gaz. vol. 174; p. 217.
Adamson, Alexander, Akron, Ohio. Vulcanizing-mold. No. 1,037,187; Sept. 3; Gaz. vol. 182; p. 3.
Adamson, August R., Collinsville, Conn. Magazine-rifle. No. 1,032,101; July 9; Gaz. vol. 180; p. 474.
Adamson, Cecil F., East Palestine, Ohio. Tire-vulcanizing repair apparatus. No. 1,022,289; Apr. 2; Sp. p. 1128; Gaz. vol. 177; p. 180.
Adamson, Charles E., Buffalo, N. Y. Self-heating sad-iron. No. 1,025,502; May 7; Sp. p. 884; Gaz. vol. 178; p. 138.
Adamson, Charles E., assignor to The Writerpress Company, Buffalo, N. Y. Duplicating-machine. No. 1,015,256; Jan. 16; Sp. p. 4763; Gaz. vol. 174; p. 803.
Adamson, Charles G., Athlone, Ireland. Covering for tennis-shoes and the like. No. 1,027,637; May 28; Sp. p. 5569; Gaz. vol. 178; p. 974.
Adamson, Richard A., Rivington, near Bolton, England. Apparatus for scraping and cleaning water mains, pipes, and the like. No. 1,030,634; June 25; Sp. p. 5797; Gaz. vol. 179; p. 993.
Adder Cash Register Syndicate, The. (See Postans, Arthur J., assignor.)
Adder Machine Company, The. (See McFarland, Charles N., assignor.)
Addicks, Lawrence, Chrome, N. J. Making brass. No. 1,041,940; Oct. 22; Gaz. vol. 183; p. 869.
Adding Typewriter Company. (See Raber, Joseph, assignor.)
Addis, Joshua V. (See Gustafsson, Hilmer A., assignor.)
Addison, William H., assignor of one-half to D. R. Jones, Seattle, Wash. Crimping appliance. No. 1,028,654; June 4; Sp. p. 1273; Gaz. vol. 179; p. 196.
Addograph Manufacturing Company. (See Hopkins, Hubert, assignor.)
Addressograph Company. (See Duncan, Joseph S., assignor.)
Adelt, Alfred, assignor of one-fifth to J. Becker and two-fifths to C. Becker, Breslau, Germany. Bread-roll machine. No. 1,015,985; Jan. 30; Sp. p. 6361; Gaz. vol. 174; p. 1107.
Aden, Joseph, Danville, Va. Lubricating attachment for axles and shafts. No. 1,041,941; Oct. 22; Gaz. vol. 183; p. 869.
Adix, Elmer E., Boone, Iowa. Harrow. No. 1,034,558; Aug. 6; Gaz. vol. 181; p. 52.
Adix, Elmer E., Boone, Iowa. Harrow. No. 1,034,753; Aug. 6; Gaz. vol. 181; p. 118.
Adix, Francis, Boone, Iowa. Guard for cultivator-wheels. No. 1,026,293; May 14; Sp. p. 2649; Gaz. vol. 178; p. 443.
Adjusta Company. (See Hirsh, Fred, assignor.)
Adkins, James, Jr., St. Louis, Mo. Expansion-joint. No. 1,040,093; Oct. 1; Gaz. vol. 183; p. 141.
Adkins, Marian F., Ranger, W. Va. Framing-tool. No. 1,039,076; Sept. 24; Gaz. vol. 182; p. 727.
Adkins, Samuel D., *et al.* (See Mercer, Josias J., assignor.)
Adkins, Spurgeon D., Vienna, Ga. Fertilizer-distributer. No. 1,033,650; July 23; Gaz. vol. 180; p. 1079.
Adkins, William, Kellogg, Iowa. Railway-switch. No. 1,027,683; May 28; Sp. p. 5679; Gaz. vol. 178; p. 990.
Adkinson, Harry, Richmond, Cal. Suspenders. No. 1,046,363; Dec. 3; Gaz. vol. 185; p. 197.
Adler, Samuel, Vienna, Austria-Hungary. Safety-razor. No. 1,014,431; Jan. 9; Sp. p. 2981; Gaz. vol. 174; p. 494.
Adler, Samuel, Vienna, Austria-Hungary. Safety-razor. No. 1,049,031; Dec. 31; Gaz. vol. 185; p. 1255.
Adler, Sigismund L., New York, N. Y. Corset-fitting chart. No. 1,023,060; Apr. 9; Sp. p. 2781; Gaz. vol. 177; p. 473.
Adler, William E. (See Helmick and Adler.)
Adler, William S., Atlanta, Ga. Box. No. 1,030,758; June 25; Sp. p. 6098; Gaz. vol. 179; p. 1037.
Adlof, Frederick W., New Kensington, Pa. Sand-drying furnace. No. 1,018,951; Feb. 27; Sp. p. 6017; Gaz. vol. 175; p. 1038.
Adney, Elizabeth J., Kansas City, Mo. Clothes-basket. No. 1,040,837; Oct. 8; Gaz. vol. 183; p. 426.
Adolf Bleichert & Company. (See Doble, Fritz, assignor.)
Adolf Bleichert & Company. (See Müller, Hermann, assignor.)
Adolf Bleichert & Company. (See Wieprecht, Walter O. V., assignor.)
Adolph, Paul P., New York, N. Y. Match-box. No. 1,026,235; May 14; Sp. p. 2532; Gaz. vol. 178; p. 424.
Adreon, Edward L., Jr. (See Kent, Thomas F., assignor.)
Adreon Manufacturing Company. (See Wilson, Edward, assignor.)
Adreon, Robert E. (See Niederlander and Adreon.)
Adrian Novelty Co., The. (See Beal and Crandell, assignors.)
Adriance, Adrian D., New York, N. Y. Clutch. No. 1,034,183; July 30; Gaz. vol. 180; p. 1289.
Adriance, Benjamin, and A. Calleson, Brooklyn, N. Y.; said Calleson assignor to said Adriance. Die structure. No. 1,029,333; June 11; Sp. p. 2743; Gaz. vol. 179; p. 464.
Adriance, Benjamin, and A. Calleson, Brooklyn, N. Y.; said Calleson assignor to said Adriance. Machine for making articles of sheet metal. No. 1,029,334; June 11; Sp. p. 2747; Gaz. vol. 179; p. 464.
Adriance, Benjamin, and A. Calleson, Brooklyn, N. Y.; said Calleson assignor to said Adriance. Machine for forming sheet-metal articles. No. 1,037,844; Sept. 10; Gaz. vol. 182; p. 255.
Adriance, Benjamin, and A. Calleson, Brooklyn, N. Y.; said Calleson assignor to said Adriance. Bottle-capping machine. (Reissue.) No. 13,468; Oct. 1; Gaz. vol. 183; p. 195.
Adriance, Benjamin, and A. Calleson, Brooklyn, N. Y.; said Calleson assignor to said Adriance. Bottle-capping machine. No. 1,042,068; Oct. 22; Gaz. vol. 183; p. 910.
Adriance, Benjamin, and A. Calleson, Brooklyn, N. Y.; said Calleson assignor to said Adriance. Bottle-capping machine. No. 1,043,286; Nov. 5; Gaz. vol. 184; p. 85.
Adsit, Charles G., assignor of one-fifth to S. B. Winn, one-fifth to G. H. Brown, one-fifth to C. H. Land, Jr., and one-fifth to N. H. Jewett, Detroit, Mich. Starting device for internal-combustion engines. No. 1,034,559; Aug. 6; Gaz. vol. 181; p. 53.
Adt, Leo F., Albany, N. Y. Mounting for spectacles. No. 1,017,642; Feb. 20; Sp. p. 3081; Gaz. vol. 175; p. 557.
Adt, Leo F., Albany, N. Y. Eyeglass-mounting. No. 1,018,600; Feb. 27; Sp. p. 5294; Gaz. vol. 175; p. 919.
Adt, Leo F., Albany, N. Y. Eyeglass-mounting. No. 1,019,115; Mar. 5; Sp. p. 230; Gaz. vol. 176; p. 37.
Adt, Leo F., Albany, N. Y. Eyeglasses. No. 1,019,116; Mar. 5; Sp. p. 236; Gaz. vol. 176; p. 38.
Adt, Leo F., Albany, N. Y. Eyeglass-mounting. No. 1,019,117; Mar. 5; Sp. p. 238; Gaz. vol. 176; p. 38.
Adt, Leo F., Albany, N. Y. Eyeglass-mounting. No. 1,019,214; Mar. 5; Sp. p. 459; Gaz. vol. 176; p. 73.
Adt, Leo F., Albany, N. Y. Bridge-spring for eyeglasses. No. 1,024,814; Apr. 30; Sp. p. 6622; Gaz. vol. 177; p. 1165.
Adt, Leo F., Albany, N. Y. Nose-guard for eyeglasses. No. 1,038,711; Sept. 17; Gaz. vol. 182; p. 587.
Adt, Leo F., Albany, N. Y. Eyeglass-mounting. (Reissue.) No. 13,466; Sept. 17; Gaz. vol. 182; p. 707.
Adt, Leo F., Albany, N. Y. Eyeglasses. No. 1,040,094; Oct. 1; Gaz. vol. 183; p. 141.
Adt, Leo F., Albany, N. Y. Eyeglasses. No. 1,040,095; Oct. 1; Gaz. vol. 183; p. 141.
Adt, Leo F., Albany, N. Y. Eyeglasses. No. 1,040,096; Oct. 1; Gaz. vol. 183; p. 142.
Adt, Leo F., Albany, N. Y. Nose-guard. No. 1,040,097; Oct. 1; Gaz. vol. 183; p. 142.
Adt, Leo F., Albany, N. Y. Eyeglass-mounting. No. 1,040,098; Oct. 1; Gaz. vol. 183; p. 142.
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Adt, Leo F., Albany, N. Y. Eyeglass-mounting. No. 1,040,101; Oct. 1; Gaz. vol. 183; p. 144.
Adt, Leo F., Albany, N. Y. Eyeglasses. No. 1,040,102; Oct. 1; Gaz. vol. 183; p. 144.
Adt, Leo F., Albany, N. Y. Eyeglasses. No. 1,040,103; Oct. 1; Gaz. vol. 183; p. 144.
Adt, Leo F., Albany, N. Y. Eyeglasses. No. 1,040,104; Oct. 1; Gaz. vol. 183; p. 145.
Adt, Leo F., Albany, N. Y. Eyeglasses. No. 1,040,105; Oct. 1; Gaz. vol. 183; p. 145.
Adt, Leo F., Albany, N. Y. Eyeglass-mounting. No. 1,042,376; Oct. 29; Gaz. vol. 183; p. 1039.
Advance M'f'g Co. (See Barnes, Edward M., assignor.)

Alphabetical list of patentees—Continued.

Aebli, Anton, Milwaukee, Wis. Vehicle-tire. No. 1,033,513; July 23, Gaz. vol. 180; p. 1034.
Aeolian Company, The. (See Meahl, Philip J., assignor.)
Aeolian Company. (See Pain and Wood, assignors.)
Aeolian Company. (See Wood, Frederick L., assignor.)
Aerators Limited. (See Campbell, Robert H., assignor.)
Aermore Manufacturing Company. (See Stephens, William E., assignor.)
Aeschbach, Friedrich, Aarau, Switzerland. Kneading-machine. No. 1,044,967; Nov. 19; Gaz. vol. 184; p. 730.
Africa, Elmer M., Huntingdon, Pa., and B. E. McSheehy, Nutley, N. J., assignors to J. C. Blair Company, Huntingdon, Pa. Writing-tablet. No. 1,032,725; July 16; Gaz. vol. 180; p. 732.
Agahan, Michael H., West Hoboken, N. J. Mechanical movement. No. 1,049,032; Dec. 31; Gaz. vol. 185; p. 1255.
Agar, W. G., *et al.* (See Kepford, David, assignor.)
Agbay, Samuel J., Worcester, Mass. Hose-supporter. No. 1,025,229; May 7; Sp. p. 262; Gaz. vol. 178; p. 44.
Aginskee, Abraham. (See Stannard and Aginskee.)
Agnew, William, Dayton, Ohio. Lamp. No. 1,013,356; Jan. 2; Sp. p. 597; Gaz. vol. 174; p. 94.
Agrella, M., *et al.* (See Perry, Alfred H., assignor.)
Agy, John, Kingfisher, Okla. Wedge-splitter. No. 1,027,458; May 28; Sp. p. 5214; Gaz. vol. 178; p. 914.
Ahern, James, and L. Frederick, Saranac, N. Y. Umbrella. No. 1,033,651; July 23; Gaz. vol. 180; p. 1080.
Ahl, Charles A., Salem, N. J. Trackless trolley. No. 1,014,556; Jan. 9; Sp. p. 3197; Gaz. vol. 174; p. 533.
Ahlberg, Gustav A. F., Chicago, Ill. Internal-combustion engine. No. 1,035,513; Aug. 13; Gaz. vol. 181; p. 406.
Ahlborn, Theodore, Chicago, Ill., assignor to Waterloo Cement Machinery Corporation, Waterloo, Iowa. Winding-drum. No. 1,014,990; Jan. 16; Sp. p. 4243; Gaz. vol. 174; p. 714.
Ahlborn, Theodore, assignor to The Waterloo Cement Machinery Corporation, Waterloo, Iowa. Concrete-spreader. No. 1,048,785; Dec. 31; Gaz. vol. 185; p. 1170.
Ahlbrecht, August, Pittsburgh, Pa. Propeller mechanism. No. 1,028,093; June 4; Sp. p. 1; Gaz. vol. 179; p. 3.
Ahlden, Alfred, Northport, Wash. Saw-set. No. 1,037,711; Sept. 3; Gaz. vol. 182; p. 180.
Ahlen, William. (See Williams and Ahlen.)
Ahlering, George F. (See Mueller and Ahlering.)
Ahrens, Albert A. (See Martin and Scheller, assignors.)
Ahrens, Hermann, Posen, Germany. Hot-water heating system. No. 1,026,236; May 14; Sp. p. 2535; Gaz. vol. 178; p. 424.
Ahrens, Louis, and E. M. Gilowsky, Milwaukee, Wis. Horseshoe. No. 1,019,401; Mar. 5; Sp. p. 931; Gaz. vol. 176; p. 136.
Aiken, Edward L. (See Aylsworth and Aiken.)
Aiken, Edward L., East Orange, assignor, by mesne assignments, to Thomas A. Edison, Incorporated, West Orange, N. J. Contact device. No. 1,030,045; June 18; Sp. p. 4311; Gaz. vol. 179; p. 745.
Aiken, Edward L., East Orange, assignor, by mesne assignments, to Thomas A. Edison, Incorporated, West Orange, N. J. Phonograph speed-regulator. No. 1,036,407; Aug. 20; Gaz. vol. 181; p. 752.
Aiken, Edward L., East Orange, assignor, by mesne assignments, to Thomas A. Edison, Incorporated, West Orange, N. J. Moving-picture apparatus. No. 1,037,188; Sept. 3; Gaz. vol. 182; p. 3.
Aiken Engineering Company. (See Aiken, Robert H., assignor.)
Aiken, Robert H., Winthrop Harbor, Ill., assignor, by mesne assignments, to Aiken Engineering Company. Method and apparatus for constructing concrete buildings. No. 1,023,349; Apr. 16; Sp. p. 3419; Gaz. vol. 177; p. 610.
Aikman, Burton S., Chicago, Ill., assignor to National Brake & Electric Co., Milwaukee, Wis. Automatic valve. No. 1,026,620; May 14; Sp. p. 3347; Gaz. vol. 178; p. 552.
Aimé, Luis, and J. Stenger, Jersey City, N. J. Leg-rest for rocking-chairs. No. 1,040,106; Oct. 1; Gaz. vol. 183; p. 145.
Ainis, Dennis, Philadelphia, Pa. Car-fender. No. 1,034,946; Aug. 6; Gaz. vol. 181; p. 183.
Ainslie, Robert T., Los Angeles, Cal. Lock nut and bolt. No. 1,031,978; July 9; Gaz. vol. 180; p. 433.
Ainsworth, Ernest D., Tulare, S. D. Wagon-bottom and metal framework therefor. No. 1,015,467; Jan. 23; Sp. p. 5263; Gaz. vol. 174; p. 902.
Ainsworth, Franklin. (See Adair, Cameron, and Ainsworth.)
Ainsworth, Harry, Moline, Ill., assignor to Williams, White & Company. Machine for punching holes in metal. No. 1,016,120; Jan. 30; Sp. p. 6645; Gaz. vol. 174; p. 1155.
Air Device Company. (See Ricketts, James R., assignor.)
Air-Ease Tire Filler Company. (See Buckley, Warren B., assignor.)
Air Friction Carburetor Company, The. (See Raymond, John W., assignor.)
Airhart, Noah S. (See McQuade and Airhart.)
Aitcheson, Dora L., Burtonsville, Md. Work-holder. No. 1,030,149; June 18; Sp. p. 4518; Gaz. vol. 179; p. 780.
Aitken, Mary, Chicago, Ill. Semaphore-signal. No. 1,031,610; July 2; Gaz. vol. 180; p. 264.
Ajax Forge Company. (See Elfborg, Henry G., assignor.)
Ajax Forge Company. (See Hoffmann, Paul, assignor.)
Ajax Manufacturing Company, The. (See Blakeslee, John R., assignor.)
Ajax Manufacturing Company. (See Wright, Wilbur L., assignor.
Akahori, Masaru B., and M. Mochizuki, Sacramento, Cal. Hand-warmer. No. 1,015,661; Jan. 23; Sp. p. 5672; Gaz. vol. 174; p. 969.
Akard Door Opener Company. (See Kitchen and Stiller, assignors.)
Akens, William H., Espyville Station, Pa. Mail-bag handler. No. 1,043,892; Nov. 12; Gaz. vol. 184; p. 328.
Akerman, Axel M., Chicago, Ill. Feathering propeller. No. 1,047,872; Dec. 17; Gaz. vol. 185; p. 793.
Akers, Harry G. (See Bonnington and Akers.)
Akers, Harry R., Tyler, Tex. Guard-rail clamp. No. 1,020,011; Mar. 12; Sp. p. 2140; Gaz. vol. 176; p. 369.
Akers, Willie E., Fairfax, Okla. Strainer. No. 1,020,869; Mar. 19; Sp. p. 3976; Gaz. vol. 176; p. 692.
Akes, Charles Y., assignor to M. J. Tubbs and M. J. Bailey, Custer, S. D. Ice-sawing machine. No. 1,041,717; Oct. 22; Gaz. vol. 183; p. 789.
Akin, Forest G. (See Wild, Merton G., assignor.)
Akin, John H., Sumner, Mo. Metallic railway-tie. No. 1,018,401; Feb. 27; Sp. p. 4799; Gaz. vol. 175; p. 851.
Akin, John W., and S. Arnett, Mitchellville, Tenn. Seeder, planter, and fertilizer-distributer. No. 1,049,319; Dec. 31; Gaz. vol. 185; p. 1353.
Akin, Robert M., Ossining, N. Y. Casting-machine. No. 1,017,943; Feb. 20; Sp. p. 3808; Gaz. vol. 175; p. 661.
Akrigg, James. (See Chainey, Emanuel, assignor.)
Aktiebolaget Baltic. (See Risberg, Johannes V. M., assignor.)
Aktiebolaget Bofors-Gullspång. (See Olsson, Emil, assignor.)
Aktiebolaget Ethyl. (See Ekström, Per G., assignor.)
Aktiebolaget Gasaccumulator. (See Dalén, Gustaf, assignor.)
Aktiebolaget Ljungstroms Ångturbin. (See Ljungström, Birger, assignor.)
Aktiebolaget Lux. (See Nässén and Rustige, assignors.)
Aktiebolaget Pyro. (See Post, Hans A. von, assignor.)
Aktiebolaget Svenska Kullagerfabriken. (See Olsson and Wingquist, assignors.)
Aktiebolaget Svenska Kullagerfabriken. (See Wingquist, Sven G., assignor.)
Aktiebolaget Svenska Vapen-Och Ammunitionsfabriken. (See Sjögren, Carl A. T., assignor.)
Aktiengesellschaft Brown Boveri & Cie. (See Amsler, Paul, assignor.)
Aktiengesellschaft Brown, Boveri & Cie. (See Brown and Baasch, assignors.)
Aktiengesellschaft der Maschinenfabriken Escher Wyss & Cie. (See Boltshauser, Heinrich, assignor.)
Aktiengesellschaft Hahn für Optik und Mechanik. (See Gasser, Max, assignor.)
Aktiengesellschaft vorm. Seidel & Naumann. (See Behr, Bernhard C. M., assignor.)
Aktieselskabet Bing & Gröndahls Parcellaensfabrik. (See Dahl-Jensen, Jens P., assignor.)
Aladdin Manufacturing Company, The. (See Kronenberger, Ferdinand, assignor.)
Alandar, Joseph H., Chicago, Ill. Railway signal apparatus. No. 1,027,230; May 21; Sp. p. 4752; Gaz. vol. 178; p. 799.
Alandar, Joseph H., and R. McGregor, Chicago, Ill. Safety signal apparatus. No. 1,018,026; Feb. 20; Sp. p. 3985; Gaz. vol. 175; p. 689.
Alba, Charles F., *et al.* (See Farrier, Mervin J., Jr., assignor.)
Alball Manufacturing Company. (See Millard, William, assignor.)
Albaugh-Dover Co. (See Hedderich, Leander J., assignor.)
Albee, Asa N., assignor to The Shredded Wheat Company, Niagara Falls, N. Y. Carton-sealing machine. No. 1,037,845; Sept. 10; Gaz. vol. 182; p. 256.
Alberger, Alvan H., *et al.*, executors. (See Alberger, Louis R.)
Alberger, Blanche D., *et al.*, executors. (See Alberger, Louis R.)
Alberger Condenser Company. (See Alberger, Louis R., assignor.)
Alberger, Louis R., deceased, Greenwich, Conn.; B. D. Alberger, S. C. Ross, New York, and A. H. Alberger, Hamburg, N. Y., executors, assignors to Alberger Condenser Company. Centrifugal or turbine pump. No. 1,034,184; July 30; Gaz. vol. 180; p. 1289.
Albers, Herman. (See Higgins and Albers.)
Albers, Johann W., Harburg, Germany. Sealing device for foot-ball bladders and the like. No. 1,037,406; Sept. 3; Gaz. vol. 182; p. 77.
Albert, Albert P., New Orleans, La. Cotton-picking apparatus. No. 1,031,902; July 9; Gaz. vol. 180; p. 408.
Albert, Babette, Rixdorf, Germany. Game apparatus. No. 1,038,062; Sept. 10; Gaz. vol. 182; p. 331.
Albert, Eugen, Munich, Germany. Etching-machine. No. 1,013,717; Jan. 2; Sp. p. 1386; Gaz. vol. 174; p. 217.

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Albert, Floyd W., assignor of one-fourth to J. F. Truman and one-fourth to B. Milner, Butler, Pa. Folding chair. No. 1,017,364; Feb. 13; Sp. p. 2507; Gaz. vol. 175; p. 425.
Albert, Franz H., Lodi, Cal. Turbine-airship. No. 1,041,942; Oct. 22; Gaz. vol. 183; p. 869.
Albert and J. M. Anderson Manufacturing Company. (See Andersen, Johan M., assignor.)
Albert and J. M. Anderson Manufacturing Company. (See Curtis, Kenneth L., assignor.)
Albert, Joseph V. (See Albert, Vétal and J. V.)
Albert, Kurt, Wiesbaden, Germany. Making sulfur trioxid. No. 1,018,402; Feb. 27; Sp. p. 4800; Gaz. vol. 175; p. 851.
Albert, Moses. (See Pascal, Israel, assignor.)
Albert Sechrist Manufacturing Company, The. (See Sechrist, Albert, assignor.)
Albert, Vétal and J. V., Caribou, Me. Vegetable-grinding machine. No. 1,042,184; Oct. 22; Gaz. vol. 183; p. 948.
Alberti, John, New York, assignor to The International Cork Company, Brooklyn, N. Y. Machine for the manufacture of bottle-closures of the cap variety. No. 1,043,384; Nov. 5; Gaz. vol. 184; p. 121.
Albertus, Carl R., Chicago, Ill., assignor, by mesne assignments, to American Electric Company. Electric bell or ringer. No. 1,041,943; Oct. 22; Gaz. vol. 183; p. 870.
Albrecht, Francis J., Pittsburgh, Pa. Bake-oven illuminator. No. 1,048,024; Dec. 24; Gaz. vol. 185; p. 871.
Albrecht, Albert J., and S. H. Conklin, Florence, N. J. Grab-bucket. No. 1,043,749; Nov. 5; Gaz. vol. 184; p. 248.
Albrecht, Christian A. (See Muehleisen and Albrecht.)
Albrecht, Frederick W., assignor of one-half to C. H. Shields, Toledo, Ohio. Work gaging and holding means. No. 1,023,407; Apr. 16; Sp. p. 3535; Gaz. vol. 177; p. 629.
Albrecht, Guido J. (See Brayer and Long, assignors.)
Albrecht, Guido J. (See Long and Albrecht.)
Albrecht, Henry C., Terre Haute, Ind. Gasolene-lamp. No. 1,031,680; July 9; Gaz. vol. 180; p. 331.
Albrecht, Henry C., Terre Haute, Ind., and J. P. McGee, Paris, Ill. Vapor-lamp. No. 1,035,673; Aug. 13; Gaz. vol. 181; p. 460.
Albrecht, Michael D., Benson, Nebr. Clock. No. 1,046,246; Dec. 3; Gaz. vol. 185; p. 156.
Albree, Chester B., assignor to Chester B. Albree Iron Works Company, Pittsburgh, Pa. Automatic adjustable press. No. 1,035,828; Aug. 20; Gaz. vol. 181; p. 549.
Albree, Edward C., Swampscott, assignor to Albree Self Figuring System Company, Boston, Mass. Accounting system. No. 1,019,290; Mar. 5; Sp. p. 632; Gaz. vol. 176; p. 99.
Albree Self Figuring System Company. (See Albree, Edward C., assignor.)
Albright, John G. (See Rowley and Albright.)
Albright, Walter H., Bellevue, Ohio. Air-gun. No. 1,043,657; Nov. 5; Gaz. vol. 184; p. 217.
Alcohol Heating & Lighting Company. (See Sharp, William E., assignor.)
Alcott, Edward, Manassas, Va. Paving. No. 1,028,420; June 4; Sp. p. 783; Gaz. vol. 179; p. 118.
Alden, Arthur B. (See Parmenter and Alden.)
Alden, Arthur B. (See Parmenter and Alden.) (Reissue.)
Alden, Charles A., Steelton, Pa. Railway-frog. No. 1,032,576; July 16; Gaz. vol. 180; p. 679.
Alden, Charles A., Steelton, Pa. Railway-frog. No. 1,032,577; July 16; Gaz. vol. 180; p. 679.
Alden, Charles A., Steelton, Pa. Railway-frog. No. 1,032,578; July 16; Gaz. vol. 180; p. 680.
Alden, Charles L., Albany, N. Y. Car-door lock. No. 1,046,930; Dec. 10; Gaz. vol. 185; p. 433.
Alden, George I., Worcester, Mass. Grinding-machine. No. 1,048,634; Dec. 31; Gaz. vol. 185; p. 1116.
Alden, Lucy, Saginaw, Mich. Catamenial garment. No. 1,041,225; Oct. 15; Gaz. vol. 183; p. 590.
Alden Sampson Manufacturing Company. (See Breed, Preston H., assignor.)
Alden, Willjot P., Portland, Oreg. Safety attachment. No. 1,046,364; Dec. 3; Gaz. vol. 185; p. 197.
Alder, Charles H., *et al.* (See Lee, Isaac E., assignor.)
Alderfer, Harry M., Lower Providence, Pa. Knockdown box and crate. No. 1,017,194; Feb. 13; Sp. p. 2148; Gaz. vol. 175; p. 367.
Alderson, Granville S. (See Echard and Alderson.)
Aldred, Charles E., Cairo, Ill. Weather-strip. No. 1,035,070; Aug. 6; Gaz. vol. 181; p. 222.
Aldrich, Chas. H. (See Dodson, Joseph H., assignor.)
Aldrich, Roscoe H., Allentown, Pa. Valve. No. 1,025,732; May 7; Sp. p. 1384; Gaz. vol. 178; p. 216.
Aldrich, William O., assignor to The Whitin Machine Works, Whitinsville, Mass. Stop-motion device. No. 1,047,478; Dec. 17; Gaz. vol. 185; p. 655.
Aldrich, William O., assignor to The Whitin Machine Works, Whitinsville, Mass. Duplex stop-motion. No. 1,047,479; Dec. 17; Gaz. vol. 185; p. 656.
Aldrich, William F., and G. A. Wieland, San Francisco, Cal. Fireproof metal window. No. 1,035,132; Aug. 13; Gaz. vol. 181; p. 273.
Aldridge, Albert E., Victoria, British Columbia, Canada. Hat-pin guard. No. 1,019,938; Mar. 12; Sp. p. 1999; Gaz. vol. 176; p. 345.
Aldridge, Thomas J. (See Reilly and Aldridge.)
Aldworth, Edward J., assignor to Waddell Manufacturing Company, Grand Rapids, Mich. Casket-handle. No. 1,041,944; Oct. 22; Gaz. vol. 183; p. 870.
Alexander, Abraham, Troy, N. Y. Luggage-truck. No. 1,043,038; Oct. 29; Gaz. vol. 183; p. 1272.
Alexander, Alexander M., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Skiving-machine. No. 1,017,195; Feb. 13; Sp. p. 2149; Gaz. vol. 175; p. 367.
Alexander, Alexander M., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Lacing-machine. No. 1,030,559; June 25; Sp. p. 5501; Gaz. vol. 179; p. 965.
Alexander, Anson C., Penacook, N. H. Automatic brake. No. 1,013,918; Jan. 9; Sp. p. 1845; Gaz. vol. 174; p. 316.
Alexander, Arthur G., Chicago, Ill. Integrating fluid-meter. No. 1,020,735; Mar. 19; Sp. p. 3679; Gaz. vol. 176; p. 648.
Alexander, Charles, and F. Pence, Granite, Oreg. Gearing. No. 1,045,112; Nov. 26; Gaz. vol. 184; p. 809.
Alexander, Charles L., Charlotte, N. C. Plastic-metal compound. No. 1,040,838; Oct. 8; Gaz. vol. 183; p. 427.
Alexander, Charles L., Charlotte, N. C. Plastic metal. No. 1,040,972; Oct. 8; Gaz. vol. 183; p. 472.
Alexander, Colwell H., Beaumont, Tex. Journal-box oil-cup. No. 1,039,629; Sept. 24; Gaz. vol. 182; p. 920.
Alexander, Elmer P., Lewistown, Pa. Manufacturing hoes. No. 1,014,432; Jan. 9; Sp. p. 2982; Gaz. vol. 174; p. 494.
Alexander, Elmer P., Lewistown, Pa. Thermostat. No. 1,030,857; July 2; Gaz. vol. 180; p. 3.
Alexander, George, *et al.* (See O'Neill, Frank, Jr., assignor.)
Alexander, Jesse, Brooklyn, assignor of one-half to D. N. Thayer, New York, N. Y. Type-writer ribbon mechanism. No. 1,013,095; Jan. 2; Sp. p. 1; Gaz. vol. 174; p. 3.
Alexander, Jesse, Brooklyn, assignor of one-half to D. N. Thayer, New York, N. Y. Type-writer key and type-bar mechanism. No. 1,013,096; Jan. 2; Sp. p. 3; Gaz. vol. 174; p. 3.
Alexander, Jesse, Brooklyn, assignor of one-half to D. N. Thayer, New York, N. Y. Type-writer case-shift mechanism. No. 1,013,264; Jan. 2; Sp. p. 380; Gaz. vol. 174; p. 61.
Alexander, Jesse, Brooklyn, assignor of one-half to D. N. Thayer, New York, N. Y. Type-writer line-spacing. No. 1,030,445; June 25; Sp. p. 5198; Gaz. vol. 179; p. 925.
Alexander, Jesse, assignor of one-half to H. Bidwell, New York, N. Y. Type-writer carriage-feed. No. 1,041,555; Oct. 15; Gaz. vol. 183; p. 700.
Alexander, Jesse, assignor of one-half to H. Bidwell, New York, N. Y. Type-writer action. No. 1,041,556; Oct. 15; Gaz. vol. 183; p. 700.
Alexander, Jesse, New York, assignor of one-half to S. C. Halstead, Brooklyn, N. Y. Type-writer carriage-feed. No. 1,041,557; Oct. 15; Gaz. vol. 183; p. 700.
Alexander, Jesse, New York, assignor of one-half to S. C. Halstead, Brooklyn, N. Y. Type-writer action. No. 1,041,558; Oct. 15; Gaz. vol. 183; p. 701.
Alexander, Jesse, assignor of one-half to W. H. Keating, New York, N. Y. Type-writing-machine ribbon feeding and operating mechanism. No. 1,041,559; Oct. 15; Gaz. vol. 183; p. 701.
Alexander, Jesse, assignor of one-half to W. H. Keating, New York, N. Y. Type-writer action. No. 1,041,560; Oct. 15; Gaz. vol. 183; p. 701.
Alexander, Jesse, New York, assignor of sixty-two one-hundredths to F. M. Da Costa, Rockville Center, N. Y. Type-writing-machine key and type-bar operating mechanism. No. 1,046,710; Dec. 10; Gaz. vol. 185; p. 358.
Alexander, Jesse, New York, assignor of sixty-two one-hundredths to F. M. Da Costa, Rockville, Center, N. Y. Type-writing-machine ribbon-operating mechanism. No. 1,046,711; Dec. 10; Gaz. vol. 185; p. 359.
Alexander, Jesse, assignor of one-half to C. G. Willis, New York, N. Y. Type-writer-carriage-feeding mechanism. No. 1,048,265; Dec. 24; Gaz. vol. 185; p. 951.
Alexander, Jesse, New York, N. Y., assignor of one-half to E. J. Gallagher, Pittston, Pa. Type-writer action. No. 1,048,266; Dec. 24; Gaz. vol. 185; p. 951.
Alexander, Jesse, New York, N. Y., assignor of one-half to E. J. Gallagher, Pittston, Pa. Type-writing-machine ribbon operating and feeding mechanism. No. 1,048,267; Dec. 24; Gaz. vol. 185; p. 951.
Alexander, Jesse, New York, assignor of one-half to T. A. Reed and one-half to W. G. Ridgway, Brooklyn, N. Y. Type-writer key and type-bar mechanism. No. 1,039,472; Sept. 24; Gaz. vol. 182; p. 865.
Alexander, Jesse, New York, assignor of one-half to T. A. Reed and one-half to W. G. Ridgway, Brooklyn, N. Y. Type-writer ribbon mechanism. No. 1,039,473; Sept. 24; Gaz. vol. 182; p. 866.
Alexander, John R., Mount Sidney, Va. Loading apparatus. No. 1,039,007; Sept. 17; Gaz. vol. 182; p. 688.

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Alexander, Joseph E., *et al.* (See Lineback, Edward E., assignor.)
Alexander, Joseph F. and W. G., Seattle, Wash. Casting device for dental purposes. No. 1,038,063; Sept. 10; Gaz. vol. 182; p. 331.
Alexander, Julius M., assignor of one-third to C. W. Weaver, Healdsburg, Cal. Antislipping attachment for footwear. No. 1,023,350; Apr. 16; Sp. p. 3420; Gaz. vol. 177; p. 611.
Alexander-Katz, Richard, Berlin, Germany. Shelter for dirigible balloons, airships, and the like. No. 1,036,532; Aug. 27; Gaz. vol. 181; p. 827.
Alexander, Lewis. (See Matthews, Charles H., assignor.)
Alexander, Lewis W., and J. W. Hall, Auckland, New Zealand. Non-refillable bottle. No. 1,017,490; Feb. 13; Sp. p. 2788; Gaz. vol. 175; p. 470.
Alexander, Louis A., assignor to The F. Bissell Company, Toledo, Ohio. Adjustable bushing. No. 1,031,410; July 2; Gaz. vol. 180; p. 197.
Alexander Milburn Company, The. (See Jenkins, Alexander F., assignor.)
Alexander, Morris, New York, N. Y. Barrel-head fastener. No. 1,017,365; Feb. 13; Sp. p. 2508; Gaz. vol. 175; p. 425.
Alexander, Otha, *et al.* (See Moon, Clyde, assignor.)
Alexander, Robert L., and J. D. Lydick, Shawnee, Okla. Automatic gas cut-off. No. 1,046,931; Dec. 10; Gaz. vol. 185; p. 433.
Alexander, Theophilus W., Burlington, Iowa. Oil-can. No. 1,016,121; Jan. 30; Sp. p. 6648; Gaz. vol. 174; p. 1156.
Alexander, Wesley. (See Garrard, Fred G., assignor.)
Alexander, William E., Jefferson township, Boone county, Ind. Manure-spreader. No. 1,038,814; Sept. 17; Gaz. vol. 182; p. 623.
Alexander, William G. (See Alexander, Joseph F. and W. G.)
Alexander, William H., Long Branch, N. J. Concrete-mold. No. 1,047,605; Dec. 17; Gaz. vol. 185; p. 700.
Alexanderson, Ernst F. W., Schenectady, N. Y., assignor to General Electric Company. Alternating-current motor. No. 1,019,402; Mar. 5; Sp. p. 932; Gaz. vol. 176; p. 136.
Alexanderson, Ernst F. W., Schenectady, N. Y., assignor to General Electric Company. Single-phase motor. No. 1,021,289; Mar. 26; Sp. p. 4849; Gaz. vol. 176; p. 885.
Alexanderson, Ernst F. W., Schenectady, N. Y., assignor to General Electric Company. Method of and apparatus for relaying high-frequency currents. No. 1,042,069; Oct. 22; Gaz. vol. 183; p. 910.
Alexieff, Valerian, Enseli, Persia. Apparatus for steering moving objects, particularly ships and flying-machines. No. 1,016,240; Jan. 30; Sp. p. 6871; Gaz. vol. 174; p. 1193.
Alford, Frank R., assignor to Wm. L. Gilbert Clock Company, Winsted, Conn. Regulating apparatus for time-pieces. No. 1,029,567; June 11; Sp. p. 3244; Gaz. vol. 179; p. 544.
Alford, Frank R., assignor to Wm. L. Gilbert Clock Company, Winsted, Conn. Keyless winding apparatus for clocks. No. 1,049,285; Dec. 31; Gaz. vol. 185; p. 1340.
Alford, Isaac, Peru, Kans. Rotary engine. No. 1,033,514; July 23; Gaz. vol. 180; p. 1034.
Alfredson, John H., Hibbing, Minn. Feeder for steam-boilers. No. 1,036,408; Aug. 20; Gaz. vol. 181; p. 753.
Alfvegren, Frederick A., Birch Lake, Wis. Grapple. No. 1,037,712; Sept. 3; Gaz. vol. 182; p. 180.
Alfvén, David, Stockholm, Sweden. Milking-machine. No. 1,031,503; July 2; Gaz. vol. 180; p. 228.
Alfvén, David, Stockholm, Sweden. Milking-machine. No. 1,033,515; July 23; Gaz. vol. 180; p. 1035.
Algard, James H., and A. Bramer, Watertown, S. D. Gang-plow-lifting device. No. 1,017,944; Feb. 20; Sp. p. 3810; Gaz. vol. 175; p. 661.
Alger, Arthur H. (See Alger, Joseph, assignor.)
Alger, Harley C., Chicago Heights, Ill. Liquid-meter. No. 1,025,358; May 7; Sp. p. 558; Gaz. vol. 178; p. 87.
Alger, Joseph, assignor of one-half to himself and one-half to A. H. Alger, Brockton, Mass. Box-covering machine. No. 1,028,421; June 4; Sp. p. 784; Gaz. vol. 179; p. 119.
Alger, Joseph, assignor of one-half to himself and one-half to A. H. Alger, Brockton, Mass. Box-covering machine. No. 1,028,422; June 4; Sp. p. 788; Gaz. vol. 179; p. 119.
Alhorn, Wilhelm, Berlin, Germany. Converter for continuous current. No. 1,038,064; Sept. 10; Gaz. vol. 182; p. 331.
Aliano, Frank S., New York, N. Y. Safety appliance for hand-fed power-presses. No. 1,014,359; Jan. 9; Sp. p. 2439; Gaz. vol. 174; p. 469.
Allabough, Mary, San Francisco, Cal. Hat-pin shield. No. 1,034,331; July 30; Gaz. vol. 180; p. 1340.
Alladin Manufacturing Company, The. (See Kronenberger, Ferdinand, assignor.)
Allan, Joseph W., Omaha, Nebr. Combination syringe case and supporter. No. 1,039,877; Oct. 1; Gaz. vol. 183; p. 70.
Allan, Thomas M., Toronto, Ontario, Canada. Physical exerciser, straightener, and heightener. No. 1,013,097; Jan. 2; Sp. p. 4; Gaz. vol. 174; p. 4.
Allard, Herman, Geertruidenberg, Netherlands. Arrangement for removing the moist air from drying-chambers. No. 1,025,603; May 7; Sp. p. 1109; Gaz. vol. 178; p. 172.
Allard, James E. (See Blondell and Allard.)
Allatt, Thomas. (See James and Thompson, assignors.)
Allbright-Nell Co. (See Humphreys, Jerome N., assignor.)
Allbright, Thomas J. (See Anderson, Daisy D., assignor.)
Alleas, Jean M., Boston, Mass. Aeroplane. No. 1,015,924; Jan. 30; Sp. p. 6226; Gaz. vol. 174; p. 1086.
Allee, James F. (See Staahlgren, Karl A. A., assignor.)
Allegretti, Nicholas W., Chicago, Ill. Amusement device. No. 1,029,904; June 18; Sp. p. 4015; Gaz. vol. 179; p. 698.
Allen, Aaron B., assignor to Allen Switch Company, Pueblo, Colo. Electric-switch-operating mechanism. No. 1,029,250; June 11; Sp. p. 2559; Gaz. vol. 179; p. 433.
Allen, Albert J., New York, N. Y. Connecting-terminal. No. 1,040,107; Oct. 1; Gaz. vol. 183; p. 146.
Allen, Andrews, assignor to Allen & Garcia Company, Chicago, Ill. Coal-tipple. No. 1,032,800; July 16; Gaz. vol. 180; p. 757.
Allen, Arthur. (See Gaunt and Allen.)
Allen, Arthur M., New Brighton, N. Y. Elastic variable gearing. No. 1,026,237; May 14; Sp. p. 2536; Gaz. vol. 178; p. 425.
Allen, Bertram. (See Rausseau, Coatsworth E., assignor.)
Allen-Bradley Company. (See Bradley, Lynde, assignor.)
Allen-Bradley Company. (See Dusinberre, George B., assignor.)
Allen, Byron C., Chicago, Ill. Heating apparatus. No. 1,027,970; May 28; Sp. p. 6328; Gaz. vol. 178; p. 1086.
Allen, Charles, Winifrede, W. Va. Horseshoe. No. 1,026,842; May 21; Sp. p. 3857; Gaz. vol. 178; p. 666.
Allen, Charles A., Linwood, assignor to The Whitin Machine Works, Whitinsville, Mass. Metallic creel. No. 1,026,646; May 21; Sp. p. 3429; Gaz. vol. 178; p. 599.
Allen, Charles C., Nebraska City, Nebr. Draw-bar for concrete structures. No. 1,020,676; Mar. 19; Sp. p. 3555; Gaz. vol. 176; p. 626.
Allen, Charles C., Kansas City, Mo. Anatomical model. No. 1,048,382; Dec. 24; Gaz. vol. 185; p. 992.
Allen, Charles H., assignor to Troy Laundry Machinery Company, Limited, Chicago, Ill. Electric heater. No. 1,037,573; Sept. 3; Gaz. vol. 182; p. 134.
Allen, Charley O. (See Bowles and Allen.)
Allen, Claude E., *et al.* (See Truman, James A., assignor.)
Allen, Daniel M. (See Garner, James M., assignor.)
Allen, David B., Newport, R. I. Adjustable bed. No. 1,038,472; Sept. 10; Gaz. vol. 182; p. 470.
Allen, Earl, Glen Easton, W. Va. Tinner's tongs. No. 1,045,803; Dec. 3; Gaz. vol. 185; p. 3.
Allen, Edward A., Portland, Me., assignor to J. F. Preston Lowell, Mass. Electrolytic cell. No. 1,035,133; Aug 13; Gaz. vol. 181; p. 273.
Allen, Edward B., Bridgeport, Conn., assignor to The Singer Manufacturing Company. Sewing-machine drip-pan. No. 1,023,351; Apr. 16; Sp. p. 3422; Gaz. vol. 177; p. 611.
Allen, Edward B., Bridgeport, Conn., assignor to The Singer Manufacturing Company. Buttonhole-stitching machine. No. 1,024,490; Apr. 30; Sp. p. 5854; Gaz. vol. 177; p. 1051.
Allen, Edward B., Bridgeport, Conn., assignor to The Singer Manufacturing Company. Stitch-forming mechanism. No. 1,030,046; June 18; Sp. p. 4313; Gaz. vol. 179; p. 746.
Allen, Edward B., Bridgeport, Conn. assignor to The Singer Manufacturing Company. Taped seam for sewed articles. No. 1,030,446; June 25; Sp. p. 5200; Gaz. vol. 179; p. 925.
Allen, Edward B., Bridgeport, Conn., assignor to The Singer Manufacturing Company. Cord-laying device for sewing-machines. No. 1,039,241; Sept. 24; Gaz. vol. 182; p. 785.
Allen, Edward B., Bridgeport, Conn., assignor to The Singer Manufacturing Company. Stitched buttonhole. No. 1,040,839; Oct. 8; Gaz. vol. 183; p. 427.
Allen, Edward B., Bridgeport, Conn., assignor to The Singer Manufacturing Company. Stitched buttonhole. No. 1,040,840; Oct. 8; Gaz. vol. 183; p. 427.
Allen, Edward B., Bridgeport, Conn., assignor to The Singer Manufacturing Company. Buttonhole-cutting mechanism. No. 1,048,786; Dec. 31; Gaz. vol. 185; p. 1170.
Allen, Edward B., and J. C. Ringe, Bridgeport, Conn., assignors to The Singer Manufacturing Company. Thread-cutting mechanism for sewing-machines. No. 1,028,655; June 4; Sp. p. 1275; Gaz. vol. 179; p. 196.
Allen. Edward T., Detroit, Mich. Piston. No. 1,045,930; Dec. 3; Gaz. vol. 185; p. 46.
Allen, Edwin T., Detroit, Mich. Mold for vaults. No. 1,014,360; Jan. 9; Sp. p. 2842; Gaz. vol. 174; p. 470.
Allen, Eleanor C. (See Allen, Jacob S., assignor.)
Allen, Ernest E., Portland, Oreg. Bottle-stopper. No. 1,041,561; Oct. 15; Gaz. vol. 183; p. 702.
Allen, Ernest J., Vilas, assignor of one-half to W. R. Downs, Antes Fort, Pa. Power-hammer-supporting device and adjustable frame for the same. No. 1,020,471; Mar. 19; Sp. p. 3095; Gaz. vol. 176; p. 559.

Alphabetical list of patentees—Continued.

Allen, Everett P., deceased; M. A. Allen, executrix, assignor to Dole Valve Company, Chicago, Ill. Siphon valve. No. 1,034,754; Aug. 6; Gaz. vol. 181; p. 118.
Allen, Frank B., Salt Lake City, Utah. Clutch mechanism. No. 1,030,373; June 25; Sp. p. 5041; Gaz. vol. 179; p. 899.
Allen, Frank M., Washington, D. C. Machine for testing the life of type-writer ribbons. No. 1,013,832; Jan. 2; Sp. p. 1613; Gaz. vol. 174; p. 258.
Allen, Fred R., assignor to E. F. Bowen, Providence, R. I. Clutch. No. 1,025,043; Apr. 30; Sp. p. 7076; Gaz. vol. 177; p. 1244.
Allen, Frederick E., assignor to The International Excavator Company, Oakland, Cal. Combined plow and scraper. No. 1,031,035; July 2; Gaz. vol. 180; p. 65.
Allen, Friend A., assignor of one-half to J. W. Searight, Granger, Mo. Pumping apparatus. No. 1,029,413; June 11; Sp. p. 2938; Gaz. vol. 179; p. 491.
Allen & Garcia Company. (See Allen, Andrews, assignor.)
Allen, George E., Bridgeport, Conn. Key-retaining device. No. 1,028,849; June 11; Sp. p. 1686; Gaz. vol. 179; p. 295.
Allen, George H. (See Kelley, Charles C., assignor.)
Allen, George L., Wilmington, N. C. Car-ventilator. No. 1,022,918; Apr. 9; Sp. p. 2488; Gaz. vol. 177; p. 424.
Allen, George W., Corvallis, Oreg. Combined square and level. No. 1,022,396; Apr. 9; Sp. p. 1347; Gaz. vol. 177; p. 247.
Allen, George W., Selma, Cal. Cling-knife. No. 1,028,175; June 4; Sp. p. 269; Gaz. vol. 179; p. 33.
Allen, George W., Selma, Cal. Fruit-spreading machine. No. 1,033,076; July 23; Gaz. vol. 180; p. 887.
Allen, George W., Atlanta, Ga. Automatic fire-lighter. No. 1,032,726; July 16; Gaz. vol. 180; p. 733.
Allen, Glenn, San Francisco, Cal. Splice for concrete-reinforce rods. No. 1,035,816; Aug. 13; Gaz. vol. 181; p. 508.
Allen, Guy L., Boulder, Colo. Cement-tile machine. No. 1,037,189; Sept. 3; Gaz. vol. 182; p. 3.
Allen, Harry, Bagdad, Ky. Gate. No. 1,016,598; Feb. 6; Sp. p. 842; Gaz. vol. 175; p. 126.
Allen, Harry L. (See Meriam and Allen.)
Allen, Herbert O., assignor of one-fourth to E. L. Jett, Auburn, Cal. Water-heater. No. 1,044,469; Nov. 19; Gaz. vol. 184; p. 557.
Allen, Homer W. (See Baumgardner, Willis F., assignor.)
Allen, Horace L., Okmulgee, Okla. Igniter. No. 1,024,964; Apr. 30; Sp. p. 6928; Gaz. vol. 177; p. 1218.
Allen, Ira, Dansville, N. Y. Airship. No. 1,020,870; Mar. 19; Sp. p. 3977; Gaz. vol. 176; p. 693.
Allen, Jacob S., assignor to E. C. Allen, Philadelphia, Pa. Derrick. No. 1,033,652; July 23; Gaz. vol. 180; p. 1080.
Allen, James. (See Mason and Allen.)
Allen, James B., Detroit, Mich. Address-printing machine. No. 1,048,121; Dec. 24; Gaz. vol. 185; p. 904.
Allen, James C., *et al.* (See Webster, James M., assignor.)
Allen, Jehu W., Winnfield, La. Ironing-board. No. 1,016,196; Jan. 30; Sp. p. 6780; Gaz. vol. 17[illegible]; p. 179.
Allen, John E. (See Gherky and Allen.)
Allen, John H., East Orange, N. J., assignor to Quincy, Manchester, Sargent Company, Chicago, Ill. Rail-joint. No. 1,020,941; Mar. 19; Sp. p. 4099; Gaz. vol. 176; p. 716.
Allen, John M. (See Maxwell and Allen.)
Allen, John V. (See Hadaway and Allen.)
Allen, John V., South Weymouth, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Heel-seat-rounding machine. No. 1,027,638; May 28; Sp. p. 5570; Gaz. vol. 178; p. 974.
Allen, John V., South Weymouth, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Shoe-sewing machine. No. 1,027,791; May 28; Sp. p. 5886; Gaz. vol. 178; p. 1024.
Allen, John V., South Weymouth, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Welt-guide mechanism. No. 1,034,857; Aug. 6; Gaz. vol. 181; p. 154.
Allen, John V., Weymouth, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Heel-seat-rounding machine. No. 1,034,560; Aug. 6; Gaz. vol. 181; p. 53.
Allen, Joseph H., Sedalia, Mo. Stovepipe attachment. No. 1,042,185; Oct. 22; Gaz. vol. 183; p. 948.
Allen, Lynn L., Atlanta, Ga. Device for making designs. No. 1,039,474; Sept. 24; Gaz. vol. 182; p. 866.
Allen, Mary A., executrix. (See Allen, Everett P.)
Allen, Oglesby, Jr., Chicago, Ill., assignor to Allen's Nut Lock Company, Limited. Nut-lock. No. 1,036,949; Aug. 27; Gaz. vol. 181; p. 965.
Allen, Ralph, Welty precinct, Okfuskee county, Okla. Planter. No. 1,030,759; June 25; Sp. p. 6099; Gaz. vol. 179; p. 1037.
Allen, Robert N. (See Stetson and Allen.)
Allen, Robert N., Methuen, Mass., assignor to U. S. Bobbin & Shuttle Co., Providence, R. I. Shuttle. No. 1,033,516; July 23; Gaz. vol. 180; p. 1035.
Allen, Sam, and F. L. Bailey, Okmulgee, Okla. Concrete-block-molding machine. No. 1,023,778; Apr. 16; Sp. p. 4236; Gaz. vol. 177; p. 744.
Allen, Samuel L., Moorestown, N. J. Self-locking mechanism. No. 1,013,098; Jan. 2; Sp. p. 6; Gaz. vol. 174; p. 4.
Allen, Samuel L., Moorestown, N. J. Self-locking lever. No. 1,013,099; Jan. 2; Sp. p. 9; Gaz. vol. 174; p. 4.
Allen, Samuel T. (See Harrington and Allen.)
Allen, Sherman T., assignor to Triplex Tire Company, Detroit, Mich. Vehicle-tire. No. 1,023,779; Apr. 16; Sp. p. 4238; Gaz. vol. 177; p. 745.
Allen, Stratford B., Cambridge, Mass. Device for filling drawing-pens. No. 1,047,873; Dec. 17; Gaz. vol. 185; p. 793.
Allen, Wallace P., and L. Schlesinger, Milwaukee, Wis.; said Allen assignor to said Schlesinger. Printing-press. No. 1,048,476; Dec. 31; Gaz. vol. 185; p. 1061.
Allen Switch Company. (See Allen, Aaron B., assignor.)
Allen, Thomas B. (See Tone and Allen.)
Allen, Thomas B., assignor to The Carborundum Company, Niagara Falls, N. Y. Making silicon articles. No. 1,037,713; Sept. 3; Gaz. vol. 182; p. 180.
Allen, Thomas S., Milwaukee, Wis., assignor to Allis-Chalmers Company. Commutator construction for dynamo-electric machines. No. 1,017,945; Feb. 20; Sp. p. 3811; Gaz. vol. 175; p. 661.
Allen, Walter P., Ardmore, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-signal. No. 1,016,384; Feb. 6; Sp. p. 323; Gaz. vol. 175; p. 51.
Allen, Walter P., Ardmore, Pa., and J. P. Coleman, New York, N. Y., assignors to The Union Switch & Signal Company, Swissvale, Pa. Railway-signal. No. 1,016,385; Feb. 6; Sp. p. 327; Gaz. vol. 175; p. 52.
Allen, Wayne H. (See Allen, William H. and W. H.)
Allen, Wilburn C., Kansas City, Mo. Vehicle-wheel. No. 1,036,533; Aug. 27; Gaz. vol. 181; p. 827.
Allen, Willard W., Pretty Prairie, Kans. Grain-door for cars. No. 1,027,971; May 28; Sp. p. 6329; Gaz. vol. 178; p. 1086.
Allen, William, Burlington Junction, Mo. Hay-loader. No. 1,042,748; Oct. 29; Gaz. vol. 183; p. 1172.
Allen, William A., New York, N. Y. Supporting and retaining device for spare tires. (Reissue.) No. 13,454; Aug. 6; Gaz. vol. 181; p. 243.
Allen, William H., Welch, W. Va. Car-rerailer. No. 1,024,049; Apr. 23; Sp. p. 4889; Gaz. vol. 177; p. 866.
Allen, William H., Detroit, Mich. Service-pipe for water-storage systems, &c. No. 1,030,447; June 25; Sp. p. 5202; Gaz. vol. 179; p. 925.
Allen, William H., Cleveland, Ohio. Desiccating. No. 1,040,486; Oct. 8; Gaz. vol. 183; p. 303.
Allen, William H. and W. H., Momence, Ill. Corn-husker. No. 1,035,071; Aug. 6; Gaz. vol. 181; p. 222.
Allender, Robert B., Claysville, Pa. Nut-locking device. No. 1,022,810; Apr. 9; Sp. p. 2269; Gaz. vol. 177; p. 388.
Allen's Nut Lock Company. (See Allen, Oglesby, Jr., assignor.)
Allenson, John, assignor to St. Paul Foundry Company, St. Paul, Minn. Jail-door-locking mechanism. No. 1,043,748; Nov. 5; Gaz. vol. 184; p. 247.
Allerdice, Joseph. (See Trescott, Charles B., assignor.)
Allerding, Cletus N., assignor to The Ohio Brass Company, Mansfield, Ohio. Valve. No. 1,048,635; Dec. 31; Gaz. vol. 185; p. 1116.
Allerding, Cletus N., assignor to The Ohio Brass Company, Mansfield, Ohio. Trolley-line clamp. No. 1,048,636; Dec. 31; Gaz. vol. 185; p. 1117.
Allerding, Cletus N., assignor to The Ohio Brass Company, Mansfield, Ohio. Trolley-line clamp. No. 1,049,189; Dec. 31; Gaz. vol. 185; p. 1307.
Alles, Henry, Spokane, Wash. Current-motor. No. 1,014,930; Jan. 16; Sp. p. 4114; Gaz. vol. 174; p. 693.
Allesöe, Hans, J. M. Jensen, Kolding, and C. J. Schou, Tved, Denmark. Apparatus for cleaning milk-cans and the like. No. 1,036,772; Aug. 27; Gaz. vol. 181; p. 907.
Alley, Frederick L. (See Winkley and Alley.)
Alley, Frederick L., Fitzroy, near Melbourne, Victoria, Australia, assignor to United Shoe Machinery Company, Paterson, N. J. Machine for finishing boots and shoes. No. 1,015,866; Jan. 30; Sp. p. 6101; Gaz. vol. 174; p. 1064.
Alley, Frederick L., Sydney, New South Wales, Australia, assignor to United Shoe Machinery Company, Paterson, N. J. Beating-machine for finishing boots and shoes. No. 1,030,374; June 25; Sp. p. 5044; Gaz. vol. 179; p. 900.
Alley, Moses E., assignor of two-thirds to F. C. Mathews, Tacoma, Wash. Stove and furnace. No. 1,018,647; Feb. 27; Sp. p. 5396; Gaz. vol. 175; p. 934.
Allfree, Edwin H., Chicago, Ill. Valve for engines. No. 1,032,039; July 9; Gaz. vol. 180; p. 453.
Allfree, James B., assignor to The Hobart-Allfree Company, Chicago, Ill. Steam-engine or the like. No. 1,038,261; Sept. 10; Gaz. vol. 182; p. 397.
Allgeier, George, Pendleton, Oreg. Connector for frame-corners. No. 1,046,932; Dec. 10; Gaz. vol. 185; p. 434.
Allie, David J., Ontonagon, Mich. Seam-ripper. No. 1,045,658; Nov. 26; Gaz. vol. 184; p. 1003.
Allien, Leon F., Morgans Point, near La Porte, Tex. Device for stripping wheels from shafts. No. 1,026,548; May 14; Sp. p. 3197; Gaz. vol. 178; p. 528.

Alphabetical list of patentees—Continued.

Allin, James H., East Chattanooga, Tenn. Combination-shafts. No. 1,046,534; Dec. 10; Gaz. vol. 185; p. 296.
Allin, James H., East Chattanooga, Tenn. Combination-shafts. No. 1,046,535; Dec. 10; Gaz. vol. 185; p. 296.
Allin, Richard F., New York, N. Y., assignor to Eugene Dietzgen Co. Protractor-triangle. No. 1,046,365; Dec. 3; Gaz. vol. 185; p. 197.
Allingham, Henry W., London, England, assignor to The Morse Chain Company, Ithaca, N. Y. Drive-chain. No. 1,027,369; May 21; Sp. p. 5029; Gaz. vol. 178; p. 847.
Allingham, James, Chicago, Ill. Adjustable support and seat-bracket. No. 1,017,724; Feb. 20; Sp. p. 3248; Gaz. vol. 175; p. 583.
Allingham, James, Chicago, Ill. Adjustable support. No. 1,032,801; July 16; Gaz. vol. 180; p. 758.
Allington, William E., Saginaw, Mich. Centrifugal fan-wheel. No. 1,025,667; May 7; Sp. p. 1250; Gaz. vol. 178; p. 193.
Allington, William E., Saginaw, Mich. Dust-collecting system. No. 1,048,477; Dec. 31; Gaz. vol. 185; p. 1061.
Allis-Chalmers Company. (See Adams, Edward T., assignor.)
Allis-Chalmers Company. (See Allen, Thomas S., assignor.)
Allis-Chalmers Company *et al.* (See Behrend, Bernard A., assignor.)
Allis-Chalmers Company. (See Blanding, Forrest H., assignor.)
Allis-Chalmers Company. (See Bent, Irving J., assignor.)
Allis-Chalmers Company. (See Bogen, Louis E., assignor.)
Allis-Chalmers Company. (See Calderwood, John B., assignor.)
Allis-Chalmers Company. (See Capen, Thomas W., assignor.)
Allis-Chalmers Company. (See Cheney, Herbert W., assignor.)
Allis-Chalmers Company *et al.* (See Crocker, Clarence T., assignor.)
Allis-Chalmers Company. (See De Wein, George F., assignor.)
Allis-Chalmers Company. (See Englesson, John E., assignor.)
Allis-Chalmers Company. (See Fischer, Charles A., assignor.)
Allis-Chalmers Company. (See Frankenfield, Budd, assignor.)
Allis-Chalmers Company. (See Gray, Alexander M., assignor.)
Allis-Chalmers Company. (See Hirt, Jules H., assignor.)
Allis-Chalmers Company. (See Holthoff, Henry C., assignor.)
Allis-Chalmers Company. (See Johnson, John L., assignor.)
Allis-Chalmers Company. (See Knight, Earle R., assignor.)
Allis-Chalmers Company. (See Lieber, William H., assignor.)
Allis-Chalmers Company *et al.* (See Lietzenmayer, William J., assignor.)
Allis-Chalmers Company. (See Loguin, Alexander J., assignor.)
Allis-Chalmers Company. (See Marburg, Louis C., assignor.)
Allis-Chalmers Company. (See Mattman, Emil, assignor.)
Allis-Chalmers Company *et al.* (See McHugh, Anthony L., assignor.)
Allis-Chalmers Company. (See Menningen, Joseph F., assignor.)
Allis-Chalmers Company. (See Mortensen, Sören H., assignor.)
Allis-Chalmers Company. (See Newhouse, Ray C., assignor.)
Allis-Chalmers Company. (See Osmer, John E., assignor.)
Allis-Chalmers Company. (See Patitz, Johann F. M., assignor.)
Allis-Chalmers Company. (See Pfau, Arnold, assignor.)
Allis-Chalmers Company. (See Powell and Williamson, assignors.)
Allis-Chalmers Company *et al.* (See Ralston, Howard H., assignor.)
Allis-Chalmers Company. (See Schley, George B., assignor.)
Allis-Chalmers Company. (See Siegmund, Rudolph, assignor.)
Allis-Chalmers Company. (See Sprado, Carl G., assignor.)
Allis-Chalmers Company. (See Steen, Halfdan A., assignor.)
Allis-Chalmers Company. (See Stull, Emmett W., assignor.)
Allis-Chalmers Company. (See Tappan, Charles O., assignor.)
Allis-Chalmers Company. (See Tomlinson, Clifford J., assignor.)
Allis-Chalmers Company. (See Tomlinson, Royal D., assignor.)
Allis-Chalmers Company. (See Wilkinson, Nathan, assignor.)
Allis-Chalmers Company. (See Williamson, Robert B., assignor.)

Allis-Chalmers Company *et al.* (See Wouters, Alfred H., assignor.)
Allis-Chalmers Company. (See Zimmerman, James G., assignor.)
Allis, Thomas V., Bridgeport, Conn. Pair-heating-furnace hearth. No. 1,034,858; Aug. 6; Gaz. vol. 181; p. 155.
Allis, Thomas V., Middletown, Ohio. Heating sheet-bars. No. 1,046,933; Dec. 10; Gaz. vol. 185; p. 434.
Allison, Frederick M. (See Norris, Joseph B., assignor.)
Allison, John, Dravosburg, and G. A. Hassel, McKeesport, assignors to Pittsburgh Steel Foundry, Pittsburgh, Pa. Furnace-charging box. No. 1,044,842; Nov. 19; Gaz. vol. 184; p. 687.
Allison, W. J., *et al.* (See Eyth, Lewis J., assignor.)
Alloy Steel Forging Company. (See Potter, Winfield S., assignor.)
Allsop, George. (See Miller and Allsop.)
Allsopp & Allsopp. (See Allsopp, Thomas, assignor.)
Allsopp, Septima, Cleveland, Ohio. Combined gaiter and overshoe. No. 1,032,643; July 16; Gaz. vol. 180; p. 703.
Allsop, Thomas. (See Sibson and Allsop.)
Allsopp, Thomas, Newark, N. J., assignor to Allsopp & Allsopp. Mesh fabric. No. 1,024,050; Apr. 23; Sp. p. 4890; Gaz. vol. 177; p. 866.
Allsop, Thomas, and W. W. Sibson, assignors to The Philadelphia Drying Machinery Company, Philadelphia, Pa. Automatic machine for treating fibrous materials. No. 1,047,874; Dec. 17; Gaz. vol. 185; p. 793.
Allsop, Thomas, and W. W. Sibson, assignors to The Philadelphia Drying Machinery Company, Philadelphia, Pa. Singeing-machine. No. 1,047,875; Dec. 17; Gaz. vol. 185; p. 794.
Allwine, Philip D. (See Wenrich, Christopher E., assignor.)
Allworth, Reginald M., assignor to The F. F. Dalley Co., Limited, Hamilton, Ontario, Canada. Device for opening boxes. No 1,035,296; Aug. 13; Gaz. vol. 181; p. 331.
Allyn, Newell O., assignor of one-half to G. W. Upton, Warren, Ohio. Rotary engine. No. 1,028,316; June 4; Sp. p. 552; Gaz. vol. 179; p. 81.
Alma Manufacturing Company of Baltimore City. (See Greenebaum, Abraham H., assignor.)
Alma Manufacturing Company of Baltimore City. (See Kerngood, Herman, assignor.)
Almén, Otto E., New York, N. Y. Window. No. 1,045,492; Nov. 26; Gaz. vol. 184; p. 942.
Almgren, Erik H. B., guardian. (See Bergström and Fagerlind.)
Almgren, John, Seattle, Wash. Level. No. 1,015,608; Jan. 23; Sp. p. 5553; Gaz. vol. 174; p. 951.
Almgren, Louis, San Diego, Cal. Equalizing trailing coupling device. No. 1,020,393; Mar. 19; Sp. p. 2934; Gaz. vol. 176; p. 533.
Almond, James W., Ruckersville, Va. Paper-file. No. 1,026,549; May 14; Sp. p. 3199; Gaz. vol. 178; p. 528.
Alperin, Bernard A., New York, N. Y. Tire-lock for automobiles. No. 1,042,377; Oct. 29; Gaz. vol. 183; p. 1039.
Alpha, Orville W., Franklin, La., assignor of one-half to A. V. Willson, Utica, Kans. Pump. No. 1,020,382; Mar. 12; Sp. p. 2896; Gaz. vol. 176; p. 491.
Alpp, Peter H., New York, N. Y. Razor-strop. No. 1,016,599; Feb. 6; Sp. p. 844; Gaz. vol. 175; p. 126.
Alpp, Peter H., New York, N. Y. Hat-pin protector. No. 1,040,841; Oct. 8; Gaz. vol. 183; p. 427.
Alquist, Karl, Schenectady, N. Y., assignor to General Electric Company. Centrifugal elastic-fluid compressor. No. 1,023,408; Apr. 16; Sp. p. 3538; Gaz. vol. 177; p. 630.
Alsberg, Julius, New York, N. Y. Insulator. No. 1,015,224; Jan. 16; Sp. p. 4686; Gaz. vol. 174; p. 791.
Alsberg, Julius, New York, N. Y. Insulator. No. 1,038,473; Sept. 10; Gaz. vol. 182; p. 471.
Alsfasser, Joseph, Chicago, Ill. Window. No. 1,036,773; Aug. 27; Gaz. vol. 181; p. 907.
Alsfasser, Joseph, Chicago, Ill. Fusible link. No. 1,039,077; Sept. 24; Gaz. vol. 182; p. 727.
Alsleben, Paul, assignor to J. A. von Wüffing, Berlin, Germany. Manufacture of formaldehyde compounds and products. No. 1,018,736; Feb. 27; Sp. p. 5572; Gaz. vol. 175; p. 964.
Alspach, James H., Pittsburgh, Pa. Fuse. No. 1,045,659; Nov. 26; Gaz. vol. 184; p. 1003.
Alsterberg, Henning, assignor of one-half to C. Johnson, St. Paul, Minn. Engine-stopping device. No. 1,029,657; June 18; Sp. p. 3442; Gaz. vol. 179; p. 611.
Alston, David J., Keokuk, Iowa. Currycomb. No. 1,026,843; May 21; Sp. p. 3858; Gaz. vol. 178; p. 666.
Alston, Nicholas F., Inez, N. C. Whip-rack. No. 1,047,366; Dec. 17; Gaz. vol. 185; p. 616.
Altenbaugh, William F. (See Weaver and Altenbaugh.)
Altenhof, Louis J., Donora, Pa., assignor to The American Steel & Wire Company of New Jersey, Hoboken, N. J. Safety-stop for wire-drawing blocks. No. 1,048,268; Dec. 24; Gaz. vol. 185; p. 952.
Alter, Christian, New York, N. Y. Door-operating device. No. 1,027,231; May 21; Sp. p. 4754; Gaz. vol. 178; p. 800.
Altermatt, John F., South Bend, Ind. Combined table and ironing-board. No. 1,040,255; Oct. 8; Gaz. vol. 183; p. 225.

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Altgelt, Herman E. (See Altgelt, Rudolph J. and H. E.)
Altgelt, Rudolph J., assignor to Oliver Chilled Plow Works, South Bend, Ind. Plow. No. 1,045,493; Nov. 26; Gaz. vol. 184; p. 943.
Altgelt, Rudolph J. and H. E., assignors to Oliver Chilled Plow Works, South Bend, Ind. Planting-machine. No. 1,024,662; Apr. 30; Sp. p. 6305; Gaz. vol. 177; p. 1111.
Althen, Frederick C., Anamosa, Iowa. Bias-band maker. No. 1,018,227; Feb. 20; Sp. p. 4427; Gaz. vol. 175; p. 760.
Althouse, John G., Omaha, Nebr. Clinker-tongs. No. 1,021,290; Mar. 26; Sp. p. 4851; Gaz. vol. 176; p. 885.
Altick, Harry M., Dayton, Ohio. Cartridge-pocket for hunting coats, jackets, &c. No. 1,023,489; Apr. 16; Sp. p. 3695; Gaz. vol. 177; p. 654.
Altick, James W., assignor of one-half t. W. T. Wuichet, Dayton, Ohio. Grease-cup. No. 1,032,318; July 9; Gaz. vol. 180; p. 548.
Altman, Anton S., Anselm, N. D. Spring bed-bottom. No. 1,040,108; Oct. 1; Gaz. vol. 183; p. 146.
Altman, Elmer F. (See Hoffman and Altman.)
Altman, Esther F., St. Petersburg, Pa. Sharpening device. No. 1,035,072; Aug. 6; Gaz. vol. 181; p. 223.
Altmann, Alexander, Elizabethport, N. J. Instrument for lifting hot pots and other utensils. No. 1,044,968; Nov. 19; Gaz. vol. 184; p. 730.
Altmann, Fritz, Berlin, Germany. Inverted burner for liquid combustibles. No. 1,025,851; May 7; Sp. p. 1622; Gaz. vol. 178; p. 257.
Altorfer, Alpheus W., Roanoke, assignor to Power Washing Machine Co., Peoria, Ill. Driving mechanism and support therefor. No. 1,047,118; Dec. 10; Gaz. vol. 185; p. 495.
Altorfer, Alpheus W., Roanoke, assignor to Power Washing Machine Co., Peoria, Ill. Driving mechanism and support therefor. No. 1,047,119; Dec. 10; Gaz. vol. 185; p. 495.
Altvater, Henry H., Fowler, Mich. Spade and shovel. No. 1,046,366; Dec. 3; Gaz. vol. 185; p. 198.
Alvey, Benjamin H., and M. U. Bernheim, Louisville, Ky., assignors, by mesne assignments, to The Alvey-Ferguson Company, Oakley, Cincinnati, Ohio. Package-conveying system. No. 1,022,525; Apr. 9; Sp. p. 1628; Gaz. vol. 177; p. 290.
Alvey-Ferguson Company, The. (See Alvey and Bernheim, assignors.)
Alvey-Ferguson Company, The. (See Wright, Benjamin H., assignor.)
Alvord, Elisha H., Seattle, assignor to H. H. Taber, Tacoma, Wash. Automatic filter-press. (Reissue.) No. 13,351; Jan. 9; Sp. p. 3401; Gaz. vol. 174; p. 560.
Alvord, John J., and F. Karsitz, Bridgeport, Conn. Buttonhole-scissors. No. 1,034,947; Aug. 6; Gaz. vol. 181; p. 183.
Alwin Manufacturing Company. (See Beier, Frank J., assignor.)
Alwood, Hubert N., Potterville, Mich. Tail-board for bean-threshers. No. 1,029,251; June 11; Sp. p. 2562; Gaz. vol. 179; p. 434.
Amadeo, Paul, Shenandoah, Pa. Shoe-shining machine. No. 1,021,814; Apr. 2; Sp. p. 118; Gaz. vol. 177; p. 24.
Amadeo, Paul, Shenandoah, Pa. Razor-sharpening machine. No. 1,024,815; Apr. 30; Sp. p. 6624; Gaz. vol. 177; p. 1165.
Amadeo, Paul, Shenandoah, Pa. Coin-controlled vending-machine. No. 1,044,622; Nov. 19; Gaz. vol. 184; p. 610.
Amalgamated Oil Company. (See O'Neil, Schneider, and Kellett, assignors.)
Ambler, George A., Winchester, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Mechanism for actuating work-supports. No. 1,013,833; Jan. 2; Sp. p. 1616; Gaz. vol. 174; p. 258.
Ambler, George A., Winchester, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Mechanism for actuating stock-supports. No. 1,026,139; May 14; Sp. p. 2313; Gaz. vol. 178; p. 391.
Ambler, George A., Winchester, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Lubricating device. No. 1,028,176; June 4; Sp. p. 275; Gaz. vol. 179; p. 34.
Ambler, George A., Winchester, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Actuating mechanism for work-supports. No. 1,029,839; June 18; Sp. p. 3865; Gaz. vol. 179; p. 675.
Ambler, George A., Winchester, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for inserting protectors. No. 1,030,760; June 25; Sp. p. 6100; Gaz. vol. 179; p. 1037.
Ambler, George B., assignor to F. A. Whitney Carriage Co., Leominster, Mass. Detachable runner for vehicles. No. 1,030,448; June 25; Sp. p. 5203; Gaz. vol. 179; p. 926.
Ambler, Howard M., Philadelphia, Pa. Vehicle-tire. No. 1,032,579; July 16; Gaz. vol. 180; p. 680.
Amborn, George, New York, assignor to J. H. Williams & Co., Brooklyn, N. Y. Chain pipe-wrench. No. 1,014,931; Jan. 16; Sp. p. 4117; Gaz. vol. 174; p. 693.
Amborn, George, Chapinville, Conn., assignor to J. H. Williams & Co., Brooklyn, N. Y. Chain pipe-vise or the like. No. 1,040,603; Oct. 8; Gaz. vol. 183; p. 347.
Ambrose, Harry T. (See Walter, Edward C., assignor.)
Ambrose, Lycurgus E., Mena, Ark. Oil-burner. No. 1,048,478; Dec. 31; Gaz. vol. 185; p. 1062.
Ambruster, Cornelius. (See Beck and Ambruster.)
Ambruster, Cornelius, Chicago, Ill. Circuit-breaker. No. 1,042,186; Oct. 22; Gaz. vol. 183; p. 949.
Ambursen Hydraulic Construction Company. (See Coburn, Howard L., assignor.)
Amend, Gustav H., Des Moines, Iowa. Adjustable lamp-holder and reflector. No. 1,022,618; Apr. 9; Sp. p. 1830; Gaz. vol. 177; p. 320.
American Acid Company. (See Peacock, Samuel, assignor.)
American Arch Company. (See Grove, James H., assignor.)
American Arch Company. (See Neff, John P., assignor.)
American Art Works. (See Spery, Charles F., assignor.)
American Automatic Machinery Company. (See Heybach, Frederick J., assignor.)
American Automatic Switch Company. (See Collins, Roy V., assignor.) (Reissue.)
American Automatic Telephone Co. (See Lattig, Jacob W., assignor.)
American Automatic Telephone Company. (See Lattig and Goodrum, assignors.)
American Automotoneer Company. (See Ebersole, Cyrus P., assignor.)
American Baker's Machinery Company. (See Masel, Theodore, assignor.)
American Bank Note Company. (See Sturtevant, Charles A., assignor.)
American Bank Note Company. (See Voorhees, William H., assignor.)
American Bank Note Company. (See Woodhull, Daniel E., assignor.)
American Bank Protection Company, The. (See Cook, Walter K., assignor.)
American Bar Lock Company. (See Mulford, Logan W., assignor.)
American Blower Company. (See Gifford, Charles H., assignor.)
American Blower Company. (See McMurdie, Francis J., assignor.)
American Blower Company. (See Still, Frederick R., assignor.)
American Bottle Cap Company. (See Schmitt, Edward D., assignor.)
American Box Ball Co., The. (See Shaw, Claude, assignor.)
American Box Ball Company, The. (See Talbert, Daniel H., assignor.)
American Box Ball Company, The. (See Talbert, Shaw, Holcomb, and Hoke, assignors.)
American Bridge Company. (See Dahl, Valentine, assignor.)
American Button Company. (See Goerdes, Frederick W., assignor.)
American Can Company. (See Breckenridge, Roeliff M., assignor.)
American Can Company. (See Bucklin, Charles S., assignor.)
American Can Company. (See Carnes, Edward W., assignor.)
American Can Company. (See Dister, Joseph, assignor.)
American Can Company. (See Dixon, James W., assignor.)
American Can Company. (See Forry, Charles E., assignor.)
American Can Company. (See Graham, Charles W., assignor.)
American Can Company. (See Graham, Thomas, assignor.)
American Can Company. (See Jackson, Andrew S., assignor.)
American Can Company. (See Johnson, Axel, assignor.)
American Can Company. (See Jones, Harry W., assignor.)
American Can Company. (See Kannenberg, Baldwin H., assignor.)
American Can Company. (See Krohn, John, assignor.)
American Can Company. (See Phelps, Henry W., assignor.)
American Can Company. (See Ritchell, Edward C., assignor.)
American Can Company. (See Rudolphi, Frank, assignor.)
American Can Company. (See Rudolphi and Tevander, assignors.)
American Can Company. (See Sharp, Lee C., assignor.)
American Can Company. (See Stollberg, Charles, assignor.)
American Can Company. (See Taylor, William E., assignor.)
American Can Company. (See Weber, George W., assignor.)
American Car and Foundry Company. (See Ames, John M., assignor.)
American Car and Foundry Company. (See Barrows, Donald S., assignor.)
American Car and Foundry Company. (See Beard, Paul M., assignor.)
American Car and Foundry Company. (See Ellis, Robert G., assignor.)
American Car & Foundry Company. (See Frame, Robert E., assignor.)

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American Car & Foundry Company. (See Frame and Gibbs, assignors.)
American Car and Foundry Company. (See Gibbs, Frederick H., assignor.)
American Car & Foundry Company. (See Gibbs, Lucius T., assignor.)
American Car and Foundry Company. (See Harris, Clifford R., assignor.)
American Car and Foundry Company. (See Johnson, William S., assignor.)
American Car & Foundry Company. (See Mulvihill, Daniel C., assignor.)
American Car and Foundry Company. (See Osborn, Joseph A., assignor.)
American Car and Foundry Company. (See Ostrander, Allen E., assignor.)
American Car and Foundry Company. (See Rohlfing, John M., assignor.)
American Car and Foundry Company. (See Seymour, George E., assignor.)
American Car and Foundry Company. (See Sheffer, John W., assignor.)
American Car and Foundry Company. (See Summa, Victor M., assignor.)
American Car and Foundry Company. (See Voss, William, assignor.)
American Car and Foundry Company. (See Ward, Frank D., assignor.)
American Car and Foundry Company. (See Weisbrod, Jacob H., assignor.)
American Car and Foundry Company. (See Willoughby, Victor, assignor.)
American Car and Foundry Company. (See Wolff, Herbert W., assignor.)
American Car Sprinkler Co. (See Perry, Edward C., assignor.)
American Case & Register Company, The. (See Peterson, Fredolf J., assignor.)
American Cigar Company. (See Weiss, Nathan, assignor.)
American Circular Loom Company. (See Lutz, George A., assignor.)
American Clay Machinery Co., The. (See Cunningham, William R., assignor.)
American Clay Machinery Company, The. (See Callaway, Edward H., assignor.)
American Coin Register Company. (See Powell, Frank D., assignor.)
American Column Company. (See Tresidder, John J., assignor.)
American Conduit Manufacturing Company, The. (See Rahm, Robert C., assignor.)
American Copper Extracting and Refining Company. (See Hess, Henry K., assignor.)
American Cork & Seal Company. (See McDonald, Charles D., assignor.)
American Creosoting Company. (See Moore, Robert H., assignor.)
American Cutlery Co., The. (See Ogle, Harley A., assignor.)
American Cystoscope Makers. (See Wappler, Reinhold H., assignor.)
American Cystoscope Makers. (See Wappler and Jung, assignors.)
American Dehydrating Co. (See Hutchins, Edgar B., Jr., assignor.)
American Delinting Co. (See Pollock, William A., assignor.)
American District Telegraph Company. (See Hoge, Joseph F. D., assignor.)
American Eagle Motor Car Company. (See Mueller, Frank, assignor.)
American Electric Company. (See Albertus, Carl R., assignor.)
American Electric Company. (See Clausen, Henry P., assignor.)
American Electric Smelting and Engineering Company. (See Greene, Albert E., assignor.)
American Electrical Heater Company. (See Kuhn, Frank, assignor.)
American Electrical Heater Company. (See Kuhn and Shailor, assignors.)
American Engineering Company. (See Riley, Robert S., assignor.)
American Engineering Company. (See Williamson, John D., Jr., assignor.)
American Engineering & Manufacturing Company. (See MacIndoe, John F., assignor.)
American Ever Ready Company. (See Hammond, William P., assignor.)
American Finishing Machinery Company. (See Hayward, Melville P., assignor.)
American Floor Surfacing Machine Company. (See Prugh, John H., assignor.)
American Fog Signal Company. (See Niditch, Isadore, assignor.)
American Foundry and Furnace Co. (See Bartlett, Eugene B., assignor.)
American Gas Light Company. (See Maas, Joseph, assignor.)
American Gas Machine Company. (See Hanson, Hans C., assignor.)
American Gas Machine Company. (See Nelson, Hans Z., assignor.)
American Gasaccumulator Company. (See Dalén, Gustaf, assignor.)
American Gasaccumulator Company. (See Dalén and Eskilson, assignors.)
American Gasol Company, The. (See Peterson, Franklin P., assignor.)
American Glove Company, The. (See Reisenhus and Sutherland, assignors.)
American Glue Company. (See Campbell, Charles H., assignor.)
American Graphophone Company. (See Emerson, Victor H., assignor.)
American Graphophone Company. (See Macdonald, Thomas H., assignor.)
American Grondal Company. (See Hamilton, John W. H., assignor.)
American Grondal Company. (See Hansell, Nils V., assignor.)
American Hardware Corporation, The. (See Arens, August, assignor.)
American Hardware Corporation, The. (See Arens and Teich, assignors.)
American Hardware Corporation, The. (See Dyson, Louis M., assignor.)
American Hardware Corporation, The. (See Fletcher, James R., assignor.)
American Hardware Corporation, The. (See Glover and Holt, assignors.)
American Hardware Corporation, The. (See Henry, William K., assignor.)
American Hardware Corporation. (See Leeds, Robert R., assignor.)
American Hardware Corporation, The. (See Teich, Ernest L., assignor.)
American Hardware Corporation, The. (See Voight, Henry G., assignor.)
American Hardware Corporation, The. (See Voight and Hurd, assignors.)
American Ignition Company. (See Schaefer, Joseph E., Jr., assignor.)
American Independent Telephone Company. (See Reynolds, Marc M., assignor.)
American Key Can Company. (See McColl, Francis P., assignor.)
American-La France Fire Engine Company. (See McCaslin, Harry M., assignor.)
American Lacing Hook Co. (See Havener, Arthur R., assignor.)
American Lithographic Company. (See Banzett, William H., assignor.)
American Lithographic Company. (See Carter, Willis M., assignor.)
American Lithographic Company. (See Stranders, Julien, assignor.)
American Locomotive Company. (See Mellin, Carl J., assignor.)
American Locomotive Equipment Co. (See Moore, Charles B., assignor.)
American Machine Works. (See Gardiner, Lou M., assignor.)
American Machinery Company, The. (See Reynolds, Robert A., assignor.)
American Mailing System Co. (See Exline, Marcus P., assignor.)
American Manufacturing Concern. (See Balder, Lawson, and Davis, assignors.)
American Mechanical Calculator Company, The. (See Webner, Frank E., assignor.)
American Metal Cap Company. (See Hammer, Charles, assignor.)
American Metal Screen and Weatherstrip Company. (See Swart, Robert B., assignor.)
American Mineral Wood Manufacturing Company. (See Ferlà, John, assignor.)
American Moistening Company. (See Comfort, Edward W., assignor.)
American Mono Service Company. (See Taylor, Elmer Z., assignor.)
American Morocco Case Co., The. (See Walpuski and Hueffner, assignors.)
American Motors Company. (See Whitworth, Stanley, assignor.)
American Moving Picture Machine Company. (See Uebelmesser, Charles R., assignor.)
American Multigraph Company, The. (See Bates, Albert H., assignor.)
American Multigraph Company, The. (See Gammeter, Harry C., assignor.)
American Multigraph Company, The. (See Hohenberger, Ferdinand, assignor.)
American Multigraph Company, The. (See Julyan, Frederick, assignor.)
American Multigraph Company, The. (See Nind and Julyan, assignors.)
American Multigraph Company, The. (See Osborn, Henry C., assignor.)
American Multigraph Company, The. (See Pejeau, Albert D., assignor.)

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American Multigraph Company, The. (See Zeitz, John J., assignor.)
American Oil & Supply Company. (See Brinkman, Louis H., assignor.)
American Optical Company. (See Baker, Nelson M., assignor.)
American Optical Company. (See Bernheim, Eugene C., assignor.)
American Optical Company. (See Day, George H., assignor.)
American Optical Company. (See Herbert, Pitt H., assignor.)
American Optical Company. (See Poeton, Lawrence, assignor.)
American Optical Company. (See Styll, Harry H., assignor.)
American Paper Bottle Company, The. (See Heyl, Henry P., assignor.)
American Paper Goods Company, The. (See Cooley, Henry B., assignor.)
American Paper Products Company. (See Gores, Henry N., assignor.)
American Patent Manufacturing Company. (See Bryant, Henry E., assignor.)
American Piano Company. (See Chase, Joseph H., assignor.)
American Pin Company. (See Crist, George B., assignor.)
American Pin Company. (See Rothwell, Louis S., assignor.)
American Pin Company. (See Willetts, William R., assignor.)
American Planograph Company. (See Cornwall, George R., assignor.)
American Planograph Company. (See Saltzman, Auguste L., assignor.)
American Pneumatic Action Company. (See Turney, Eugene T., assignor.)
American Pneumatic Service Company. (See Bemis, Thomas, assignor.)
American Pneumatic Service Company. (See Fordyce, Edmond A., assignor.)
American Postal Machines Company, The. (See Stoddard and Barbour, assignors.)
American Pulley Company, The. (See Bowen, Russell H., assignor.)
American Pulley Company, The. (See Bowen and Walker, assignors.)
American Pulley Company, The. (See Brinley, Charles A., assignor.)
American Pulley Company, The. (See Johnson, Burdette H., assignor.)
American Pulley Company, The. (See Morris, Albert W., assignor.)
American Pulverizer Company. (See Roebbel, Frederic W., assignor.)
American Railway Mail Device Company. (See Adam, John L., assignor.)
American Railway Signal Company. (See Grunow, William, Jr., assignor.)
American Regenerator Company. (See Sorge, Adolph, assignor.)
American Rotary Machine Company, The. (See Sadger, Adolf, assignor.)
American Rotary Valve Company. (See Moorhead, Albert E., assignor.)
American Sales Book Company. (See Bottle, Edward K., assignor.)
American Sales Book Company. (See Greig, Walter, assignor.)
American Sanitary Works. (See Tilden, Bert O., assignor.) (Reissue.)
American Seating Company. (See Bahnsen, John, assignor.)
American Seeding Machine Company, The. (See Jones and Christman, assignors.)
American Seeding Machine Company, The. (See Lewis and Faas, assignors.)
American Seeding Machine Company, The. (See Packham, Frank R., assignor.)
American Seeding Machine Company, The. (See Towle, Elmer E., assignor.)
American Separator Company. (See Hollins and Hartmann, assignors.)
American Sheet Metal Elbow Company. (See Naylor, Carl G., assignor.)
American Sheet & Tin Plate Company. (See Bennett, Charles W., assignor.)
American Sheet & Tin Plate Company, The. (See Davis, Stewart A., assignor.)
American Sheet & Tin Plate Company. (See Farnham, Frederick F., assignor.)
American Sheet & Tin Plate Company. (See Gibson, William, Sr., assignor.)
American Sheet & Tin Plate Company. (See McFetridge, Joseph, assignor.)
American Sign Company. (See Bambeck, Edward, assignor.)
American Sign Company. (See Burleigh, James K., assignor.)
American Sign Company. (See Carter, Charles L., assignor.)
American Silk & Cotton Skeins Printing Company. (See Pagliabue, Richard, assignor.)
American Slicing Machine Company. (See Hand, Ernest A., assignor.)
American Slicing Machine Company. (See Luschka, August R., assignor.)
American Spark Arrester Company. (See Van Horn and Endsley, assignors.)
American Stamp & Ticket Vending Machine Co. (See Angerstein, Hermann, assignor.)
American Stamp & Ticket Vending Machine Co. (See Oehring, Oscar, assignor.)
American Stamp and Ticket Vending Machine Company. (See Wolheim, Heinrich, assignor.)
American Standard Manufacturing Company. (See Lawlor, Simeon C., assignor.)
American Steam Gauge & Valve Manufacturing Company. (See Jerauld, William E., assignor.)
American Steam Gauge & Valve Manufacturing Company. (See Manning, Coleman J., assignor.)
American Steel Foundries. (See Covert, Edson C., assignor.)
American Steel Foundries. (See Floyd, George G., assignor.)
American Steel Foundries. (See Kinne, Edmund P., assignor.)
American Steel Foundries. (See Lamont, John A., assignor.)
American Steel Foundries. (See Murray, Charles F., assignor.)
American Steel Grave Vault Company, The. (See Unckrich, Ferdinand F., assignor.)
American Steel Tire Company. (See Butler, Clifford L., assignor.)
American Steel & Wire Company. (See Kilmer and Swanbum, assignors.)
American Steel & Wire Company of New Jersey, The. (See Altenhof, Louis J., assignor.)
American Steel & Wire Company of New Jersey, The. (See Broden and Mustin, assignors.)
American Steel & Wire Company of New Jersey, The. (See Daniels, Fred H., assignor.)
American Steel & Wire Company of New Jersey, The. (See Daniels and Backlin, assignors.)
American Steel & Wire Company of New Jersey, The (See Harter, Noah S., assignor.)
American Steel and Wire Company of New Jersey, The. (See Jameson, Albert J., assignors.)
American Steel & Wire Company of New Jersey. (See Miller, John W., assignor.)
American Steel & Wire Company of New Jersey. (See Oslund, Charles H., assignor.)
American Steel and Wire Company of New Jersey, The. (See Phifer, James S., assignor.)
American Steel and Wire Company of New Jersey, The. (See Sprague and Mulroyan, assignors.)
American Stopper Company. (See Corey, Harry R., assignor.)
American Stopper Company. (See Perry, Eugene L., assignor.)
American Stove Company *et al.* (See Blackford, Atwell J., assignor.)
American Stove Company. (See Nicolaus, Frederic G., assignor.)
American Stove Company. (See Possons, Minard A., assignor.)
American Stove Company. (See Roy, Joseph, assignor.)
American Street Lighting Company. (See Newbold, Eugene S., assignor.)
American Street and Station Indicator Company. (See Spindler, Perry T., assignor.)
American Tag Company. (See Swett and La Batt, assignors.)
American Telephone and Telegraph Company. (See Camatte, Joseph E., assignor.)
American Telephone and Telegraph Company. (See Davidson, Charles J., assignor.)
American Telephone and Telegraph Company. (See Jewett, Frank B., assignor.)
American Telephone and Telegraph Company. (See Molina, Edward C., assignor.)
American Telephone and Telegraph Company. (See Surprise, Edwin M., assignor.)
American Telephone and Telegraph Company. (See Wright, John W., assignor.)
American Textile Appliances Company. (See Miller, Henry J., assignor.)
American Thread Company, The. (See Marx, Henry J., assignor.)
American 3-Way Prism Co. (See Paschall, Charles H., assignor.)
American Tire Company. (See Dees, Mark A., assignor.)
American Tire Company. (See McLeod, Nelson W., assignor.)
American Tire & Rubber Company, The. (See Selzer, Michel J., assignor.)

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American Tobacco Company, The. (See Harris, Fred R., assignor.)
American Tobacco Company, The. (See Palmowsky, Stanislaus, assignor.)
American Tool and Machine Company. (See Phillips, Eli W., assignor.)
American Tool & Machine Company. (See Sturges, Harry W., assignor.)
American Tool Works Company, The. (See Schatz, Herman W., assignor.)
American Turbine Company. (See Scott, William A., assignor.)
American Turbine Company. (See Scott and Grant, assignors.)
American Type Founders Company, The. (See Remington, Charles F., assignor.)
American Universal Mill Company. (See Grey, Henry, assignor.)
American Valve & Meter Company, The. (See Anderson, Frank C., assignor.)
American Vanadium Co., The. (See Saklatwalla, Byramji D., assignor.)
American Vimograph Company. (See Duhem, Victor L., assignor.)
American Warp Drawing Machine Company. (See Lea, Charles, assignor.)
American Water Supply of New England. (See Hussey, Alfred R., assignor.)
American Well & Prospecting Company. (See Johnston, Horace G., assignor.)
American Well Works, The. (See Chapman, Matthew T., assignor.)
American Window Glass Machine Company. (See Thornburg, Lincoln A., assignor.)
Amerman, Dorr, near Longmont, Colo. Spring-wheel. No. 1,037,574; Sept. 3; Gaz. vol. 182; p. 134.
Ames, Butler, Lowell, Mass. Means for supporting spark-coil cases. No. 1,030,858; July 2; Gaz. vol. 180; p. 3.
Ames, Byron S., Newberry, Pa. Propeller. No. 1,030,047; June 18; Sp. p. 4321; Gaz. vol. 179; p. 746.
Ames, David J., Austin, Minn. Automatic stoker. No. 1,018,690; Feb. 27; Sp. p. 5471; Gaz. vol. 175; p. 949.
Ames Iron Works. (See Gaskill, Joseph C., assignor.)
Ames, John M., Dongan Hills, N. Y. Car-bolster. No. 1,021,733; Mar. 26; Sp. p. 5768; Gaz. vol. 176; p. 1036.
Ames, John M., Dongan Hills, N. Y., assignor to American Car and Foundry Company, St. Louis, Mo. Side frame for trucks. No. 1,021,125; Mar. 26; Sp. p. 4491; Gaz. vol. 176; p. 829.
Ames, John M., Dongan Hills, N. Y., assignor to American Car and Foundry Company, St. Louis, Mo. Cross-bearer. No. 1,021,909; Apr. 2; Sp. p. 329; Gaz. vol. 177; p. 55.
Ames, Oscar H., Coal Hill, assignor of one-half to R. McCalmont, Franklin, Pa. Automobile jack-truck. No. 1,014,991; Jan. 16; Sp. p. 4245; Gaz. vol. 174; p. 714.
Ames, Oscar H., Coal Hill, assignor of one-half to R. McCalmont, Franklin, Pa. Automobile jack-truck. No. 1,014,992; Jan. 16; Sp. p. 4246; Gaz. vol. 174; p. 714.
Ames, Owen B., Brewster, N. Y. Shock-absorber. No. 1,029,252; June 11; Sp. p. 2563; Gaz. vol. 179; p. 435.
Ames, Richard, Brighton, England. Machine for cleaning, drying, heating, and mixing tarred macadam. No. 1,041,226; Oct. 15; Gaz. vol. 183; p. 591.
Amet, Edward H., Redondo Beach, Cal. Therapeutic vibrator. No. 1,017,840; Feb. 20; Sp. p. 3558; Gaz. vol. 175; p. 624.
Amet, Edward H., Redondo Beach, Cal. Theatrical appliance. No. 1,040,109; Oct. 1; Gaz. vol. 183; p. 146.
Amigues, Henri. (See Lavedan and Amigues.)
Aminoff, Gustav, Baltimore, Md. Absorption apparatus. No. 1,019,003; Feb. 27; Sp. p. 6154; Gaz. vol. 175; p. 1057.
Amme, Giesecke & Konegen, Aktiengesellschaft, Braunschweig. (See Roth, Hugo, assignor.)
Ammen, Francis D., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 1,020,871; Mar. 19; Sp. p. 3979; Gaz. vol. 176; p. 693.
Ammon, Siegfried von, Bowdon, England, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Commutator for electrical machines. No. 1,018,544; Feb. 27; Sp. p. 5172; Gaz. vol. 175; p. 900.
Amphion Piano Player Company, The. (See Doman, Lewis B., assignor.)
Amsbary, William N., Los Angeles, Cal. Refrigerator. No. 1,013,468; Jan. 2; Sp. p. 828; Gaz. vol. 174; p. 132.
Amsden, Thomas G., Buffalo, assignor to J. W. Totterdale, Stafford, N. Y. Clothes-drying rack. No. 1,027,303; May 21; Sp. p. 4899; Gaz. vol. 178; p. 824.
Amsler, Paul, assignor to Aktiengesellschaft Brown Boveri & Cie., Baden, Switzerland. Transformation of direct currents. No. 1,046,934; Dec. 10; Gaz. vol. 185; p. 434.
Amspacher, Lottie M., Kalamazoo, Mich. Oven-shelf. No. 1,043,385; Nov. 5; Gaz. vol. 184; p. 122.
Amstutz, Noah S., Cleveland, Ohio. Illustrative telegraphy. No. 1,019,403; Mar. 5; Sp. p. 935; Gaz. vol. 176; p. 136.
Amstutz, Noah S., Cleveland, Ohio. Illustrative telegraphy. No. 1,019,404; Mar. 5; Sp. p. 938; Gaz. vol. 176; p. 137.
Anagnostou, John P., Chicago, Ill. Trick drinking cup or goblet. No. 1,030,859; July 2; Gaz. vol. 180; p. 4.
Anakin, Arthur E., Salt Lake City, Utah. Auxiliary locking device for safe and vault doors. No. 1,018,952; Feb. 27; Sp. p. 6018; Gaz. vol. 175; p. 1038.
Anakin, Arthur E., and W. J. Shealy, Salt Lake City, Utah. Auxiliary safe-lock. No. 1,021,651; Mar. 26; Sp. p. 5610; Gaz. vol. 176; p. 1009.
Anchor Stove & Range Company. (See Gohmann, Arthur J., assignor.)
Andel, Joseph, assignor of one-ninth to C. Kamradt, one-ninth to F. Bauer, one-ninth to W. C. Westpfahl, one-ninth to T. Horan, one-ninth to D. A. Horan, one-ninth to H. Brown, one-ninth to H. H. Steere, and one-ninth to J. Roubik, Chicago, Ill. Vermin-trap. No. 1,048,479; Dec. 31; Gaz. vol. 185; p. 1062.
Anderberg, Axel F., Pawtucket, R. I. Anchoring device for teeth-fillings. No. 1,018,803; Feb. 27; Sp. p. 5723; Gaz. vol. 175; p. 987.
Anderberg, Rudolf A. F. L. (See Christensen and Anderberg.)
Anderman, Goldie L., Chicago, Ill. Dressmaker's form. No. 1,044,470; Nov. 19; Gaz. vol. 184; p. 557.
Anders, Rudolph, Bridgeport, Conn. Airship. No. 1,025,106; Apr. 30; Sp. p. 7216; Gaz. vol. 177; p. 1264.
Andersen, Alfred E., Copenhagen, Denmark, assignor to F. L. Smidth & Co., New York, N. Y. Cooler. No. 1,038,511; Sept. 17; Gaz. vol. 182; p. 517.
Andersen, Anders C. and L. S., Copenhagen, Denmark. System of transmitting images to a distance. No. 1,040,110; Oct. 1; Gaz. vol. 183; p. 147.
Andersen, George, Chicago, Ill. Wrench. No. 1,029,905; June 18; Sp. p. 4018; Gaz. vol. 179; p. 698.
Andersen, George I., San Francisco, Cal. Device for denoting expansion of dough. No. 1,037,714; Sept. 3; Gaz. vol. 182; p. 180.
Andersen, Johan M., assignor to Albert and J. M. Anderson Manufacturing Company, Boston, Mass. Electrical connection. No. 1,026,238; May 14; Sp. p. 2537; Gaz. vol. 178; p. 425.
Andersen, Lauritz S. (See Andersen, Anders C. and L. S.)
Andersen, Lauritz W., assignor to The Plume & Atwood Manufacturing Company, Waterbury, Conn. Combined electric socket and shade-holder and socket-cover. No. 1,020,736; Mar. 19; Sp. p. 3698; Gaz. vol. 176; p. 648.
Andersen, Lauritz W., Waterbury, Conn., assignor to The Plume and Atwood Manufacturing Company. Electric-lighting device. No. 1,022,919; Apr. 9; Sp. p. 2491; Gaz. vol. 177; p. 424.
Andersen, Lauritz W., assignor to The Plume & Atwood Manufacturing Company, Waterbury, Conn. Shade-holder for electric fixtures or electroliers. No. 1,026,422; May 14; Sp. p. 2941; Gaz. vol. 178; p. 487.
Andersen, Lauritz W., assignor to The Plume & Atwood Manufacturing Company, Waterbury, Conn. Combined socket-cover and shade-holder for electric-light devices. No. 1,037,101; Aug. 27; Gaz. vol. 181; p. 1018.
Andersen, Lauritz W., assignor to The Plume and Atwood Manufacturing Company, Waterbury, Conn. Flexible chain for lighting-fixtures. No. 1,037,575; Sept. 3; Gaz. vol. 182; p. 135.
Andersen, Marie, New York, N. Y. Skirt-marker. No. 1,041,400; Oct. 15; Gaz. vol. 183; p. 650.
Andersen, Wilford E., Emmett, Idaho. Pilot-lamp-operating mechanism. No. 1,037,816; Sept. 3; Gaz. vol. 182; p. 212.
Andersen, William K., New York, N. Y. Carbureter. No. 1,041,708; Oct. 15; Gaz. vol. 183; p. 751.
Anderson, Adolf F., Chicago, Ill. Load-supporting column for building structures. No. 1,024,761; Apr. 30; Sp. p. 6512; Gaz. vol. 177; p. 1147.
Anderson, Albert C., Boyd, Minn. Bed-spring hoist. No. 1,032,264; July 9; Gaz. vol. 180; p. 530.
Anderson, Albert F., and C. W. Armstrong, Tacoma, Wash. Electric-light bracket. No. 1,025,442; May 7; Sp. p. 751; Gaz. vol. 178; p. 116.
Anderson, Albert G. J. (See Orgaard, Carl, assignor.)
Anderson, Alexander P., Chicago, Ill. Treating starch and starch materials and product. No. 1,035,829; Aug. 20; Gaz. vol. 181; p. 549.
Anderson, Alexander P., Chicago, Ill. Treating starch materials, flours, and flour product. No. 1,035,830; Aug. 20; Gaz. vol. 181; p. 549.
Anderson, Alexander P., Chicago, Ill. Starch pellets, pebbles, or nodules and making same. No. 1,035,831; Aug. 20; Gaz. vol. 181; p. 550.
Anderson, Alexander P., Chicago, Ill. Treating and drying starch. No. 1,035,832; Aug. 20; Gaz. vol. 181; p. 550.
Anderson, Alexander P., Chicago, Ill. Making starch pebbles. No. 1,035,833; Aug. 20; Gaz. vol. 181; p. 551.
Anderson, Alexander P., Chicago, Ill. Treating starch. No. 1,035,834; Aug. 20; Gaz. vol. 181; p. 551.
Anderson, Alexander P., Chicago, Ill. Treating starch materials. No. 1,035,835; Aug. 20; Gaz. vol. 181; p. 552.
Anderson, Alexander P., Chicago, Ill. Puffing starch-containing flours. No. 1,035,836; Aug. 20; Gaz. vol. 181; p. 552.

Alphabetical list of patentees—Continued.

Anderson, Alexander P., Chicago, Ill. Treating starch, and product. No. 1,035,837; Aug. 20; Gaz. vol. 181; p. 552.
Anderson, Alexander P., Chicago, Ill. Treating cereal grains and product thereby obtained. No. 1,035,838; Aug. 20; Gaz. vol. 181; p. 553.
Anderson, Alexander P., Chicago, Ill. Treating and drying cereal grains. No. 1,035,839; Aug. 20; Gaz. vol. 181; p. 553.
Anderson, Alexander P., Chicago, Ill. Apparatus for puffing starch-containing material. No. 1,035,840; Aug. 20; Gaz. vol. 181; p. 554.
Anderson, Alexander P., Chicago, Ill. Cover or closure for receptacles. No. 1,035,841; Aug. 13; Gaz. vol. 181; p. 554.
Anderson, Alexander P., Chicago, Ill. Apparatus for the treatment of starch materials. No. 1,035,842; Aug. 20; Gaz. vol. 181; p. 555.
Anderson, Alfred, assignor to Schumann Piano Company, Rockford, Ill. Pedal for pianos. No. 1,033,367; July 23; Gaz. vol. 180; p. 987.
Anderson, Alfred, assignor to Schumann Piano Company, Rockford, Ill. Foot-treadle for piano-players. No. 1,042,306; Oct. 22; Gaz. vol. 183; p. 988.
Anderson, Anders G., New York, N. Y. Lock. No. 1,038,512; Sept. 17; Gaz. vol. 182; p. 517.
Anderson, Andrew J. (See Anderson, Gustavus W. and A. J.)
Anderson, Andrew L., Montevideo, Minn. Carrier. No. 1,031,411; July 2; Gaz. vol. 180; p. 197.
Anderson, Anton G., Chicago, Ill. Clysterizing apparatus. No. 1,023,452; Apr. 16; Sp. p. 3624; Gaz. vol. 177; p. 642.
Anderson, August W., Vancouver, British Columbia, Canada. Flexible film. No. 1,033,517; July 23; Gaz. vol. 180; p. 1035.
Anderson, Axel J., East Hampton, Conn. Mowing-machine. No. 1,049,190; Dec. 31; Gaz. vol. 185; p. 1308.
Anderson-Barngrover Mfg. Co. (See Anderson, William C., assignor.)
Anderson-Barngrover Manufacturing Company. (See Langer, Gotthold L., assignor.)
Anderson-Barngrover Manufacturing Company. (See Thompson, Albert R., assignor.)
Anderson-Barngrover Mfg. Co. (See Anderson and Thompson, assignors.)
Anderson, Bedolph, and C. L. Miles, Boston, Mass. Resilient wheel. No. 1,046,712; Dec. 10; Gaz. vol. 185; p. 359.
Anderson, Byron. (See Fleming and Anderson.)
Anderson, C. B. W. (See Mattoni, Henry W., assignor.)
Anderson, Carl J., Chicago, Ill. Electric-motor-starting device. No. 1,023,491; Apr. 16; Sp. p. 3700; Gaz. vol. 177; p. 655.
Anderson, Carl J., assignor to J. L. Schureman Co., Chicago, Ill. Solenoid. No. 1,015,925; Jan. 30; Sp. p. 6228; Gaz. vol. 174; p. 1086.
Anderson, Charles A., Newport, Ky. Pipe threading and reaming device. No. 1,036,409; Aug. 20; Gaz. vol. 181; p. 753.
Anderson, Charles A., Chicago, Ill. Carbon-dioxid engine. No. 1,037,190; Sept. 3; Gaz. vol. 182; p. 4.
Anderson, Charles E. (See Predock and Anderson.)
Anderson, Chester A., Mercersburg, Pa. Gate-hinge. No. 1,035,134; Aug. 13; Gaz. vol. 181; p. 273.
Anderson, Claus J., Newburyport, Mass. Button-fastener. No. 1,026,017; May 14; Sp. p. 2014; Gaz. vol. 178; p. 348.
Anderson, Clay, and M. Silver, Passi, Philippine Islands. Diving-suit. No. 1,022,997; Apr. 9; Sp. p. 2647; Gaz. vol. 177; p. 452.
Anderson Computing Scale Company, The. (See Braskett, Thomas C., assignor.) (Reissue.)
Anderson, Cyrus N., trustee. (See Selah, Howard A., assignor.)
Anderson, Daisy D., assignor of one-third to T. J. Allbright, Colorado Springs, Colo. Guard for stallions. No. 1,046,935; Dec. 10; Gaz. vol. 185; p. 434.
Anderson, David F. (See Grove and Anderson.)
Anderson, David W., W. M. Boyce, Clearfield, and F. W. Hollopeter, Glenhope, Pa. Mine-car brake. No. 1,043,498; Nov. 5; Gaz. vol. 184; p. 163.
Anderson, Edward, *et al.* (See Moss, Robert S., assignor.)
Anderson, Edward H., Durham, assignor of one-half to M. Brownstein, Lewiston, Me. Wrench. No. 1,032,580; July 16; Gaz. vol. 180; p. 680.
Anderson, Edwin A. (See Thoeming and Anderson.)
Anderson Electric Car Company. (See Cochran, Clyde E., assignor.)
Anderson, Elias B., Rock Falls, Ill. Animal-trap. No. 1,039,878; Oct. 1; Gaz. vol. 183; p. 70.
Anderson, Emil, assignor to H. S. Todd, New York, N. Y. Turbine. No. 1,024,111; Apr. 23; Sp. p. 5026; Gaz. vol. 177; p. 888.
Anderson, Emil H., assignor of one-half to F. M. Timmins, Indianapolis, Ind. Overhead-trolley switch. No. 1,021,857; Apr. 2; Sp. p. 229; Gaz. vol. 177; p. 38.
Anderson, Emil W., Manistee, Mich. Floor-scraper. No. 1,032,355; July 9; Gaz. vol. 180; p. 561.
Anderson, Eric. (See Thomas and Anderson.)
Anderson, Eric, assignor to The Perkins Electric Switch Company, Bridgeport, Conn. Electric push-switch. No. 1,030,860; July 2; Gaz. vol. 180; p. 4.
Anderson, Eric, assignor to The Perkins Electric Switch Manufacturing Company, Bridgeport, Conn. Door-switch. No. 1,031,611; July 2; Gaz. vol. 180; p. 264.
Anderson, Ernst G. K., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Lamp-socket. No. 1,025,230; May 7; Sp. p. 263; Gaz. vol. 178; p. 44.
Anderson, Ernst G. K., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Switch mechanism. No. 1,031,768; July 9; Gaz. vol. 180; p. 362.
Anderson, Frank C., assignor to The American Valve & Meter Company, Cincinnati, Ohio. Interlocking mechanism. No. 1,026,730; May 21; Sp. p. 3613; Gaz. vol. 178; p. 627.
Anderson, Frank C., assignor to The American Valve & Meter Company, Cincinnati, Ohio. Switch-stand. No. 1,034,948; Aug. 6; Gaz. vol. 181; p. 183.
Anderson, Frank C., assignor to The American Valve & Meter Company, Cincinnati, Ohio. Automatic safety switch-lock. No. 1,036,410; Aug. 20; Gaz. vol. 181; p. 753.
Anderson, Frank C., assignor to The American Valve & Meter Company, Cincinnati, Ohio. Automatic safety switch-lock. No. 1,048,122; Dec. 24; Gaz. vol. 185; p. 905.
Anderson, Frank C., assignor to The American Valve & Meter Company, Cincinnati, Ohio. Automatic auxiliary gravity-lock for switch-stand interlocking mechanism. No. 1,048,480; Dec. 31; Gaz. vol. 185; p. 1062.
Anderson, Fred O., Hamlin, Iowa. Drum-player. No. 1,045,357; Nov. 26; Gaz. vol. 184; p. 894.
Anderson, Fred R., Providence, R. I. Foot and ankle brace. No. 1,030,861; July 2; Gaz. vol. 180; p. 4.
Anderson, Frederick L., Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Company, Paterson, N. J. Eyelet-stay-joining machine. (Reissue.) No. 13,416; May 14; Sp. p. 3413; Gaz. vol. 178; p. 561.
Anderson, George M., Gordon, Nebr. Wire-clamp. No. 1,023,706; Apr. 16; Sp. p. 4112; Gaz. vol. 177; p. 722.
Anderson, Gideon, New York, N. Y. Hair-comb. No. 1,034,859; Aug. 6; Gaz. vol. 181; p. 155.
Anderson, Giles G., Enid, Okla. Fence-post. No. 1,020,872; Mar. 19; Sp. p. 3981; Gaz. vol. 176; p. 693.
Anderson, Gustaf A., assignor to The Geiser Manufacturing Company, Waynesboro, Pa. Steering mechanism. No. 1,025,604; May 7; Sp. p. 1110; Gaz. vol. 178; p. 172.
Anderson, Gustaf A., assignor to The Geiser Manufacturing Company, Waynesboro, Pa. Oscillating-cylinder engine. No. 1,025,605; May 7; Sp. p. 1112; Gaz. vol. 178; p. 173.
Anderson, Gustaf M., Waterloo, Iowa. Spacer for liner-plates of centrifugal cream-separators. No. 1,013,834; Jan. 2; Sp. p. 1621; Gaz. vol. 174; p. 259.
Anderson, Gustaf M., Waterloo, Iowa. Adjustable cream-exit for centrifugal cream-separators. No. 1,016,536; Feb. 6; Sp. p. 705; Gaz. vol. 175; p. 105.
Anderson, Gustavus W. and A. J., Galesburg, Ill. Combined shade-roller holder and curtain-pole bracket. No. 1,040,487; Oct. 8; Gaz. vol. 183; p. 304.
Anderson, Haldor A., Ortley, assignor to I. O. Anderson, Bigstone City, S. D. Photographic-printing apparatus. No. 1,046,367; Dec. 3; Gaz. vol. 185; p. 198.
Anderson, Hamilton E., Wichita, Kans. Apparatus for separating smoke-suspended matter. No. 1,038,513; Sept. 17; Gaz. vol. 182; p. 517.
Anderson, Hans J. (See Donahue, Anderson, and Gregg.)
Anderson, Harold B. (See Winton and Anderson.)
Anderson, Harold B., Lakewood, Ohio. Starting device for internal-combustion engines. No. 1,044,118; Nov. 12; Gaz. vol. 184; p. 406.
Anderson, Harold B., assignor of one-half to C. W. Churchill, Cleveland, Ohio. Friction reversing mechanism. No. 1,032,174; July 9; Gaz. vol. 180; p. 498.
Anderson, Harvey, and F. E. Kirby, Kansas City, Kans.; said Kirby assignor to said Anderson. Self-heating sad-iron. No. 1,013,357; Jan. 2; Sp. p. 593; Gaz. vol. 174; p. 94.
Anderson, Harvey S., Dayton, Ohio. Preparing crushed stone. No. 1,013,100; Jan. 2; Sp. p. 11; Gaz. vol. 174; p. 5.
Anderson, Henning G., Barney, N. D. Plow. No. 1,041,227; Oct. 15; Gaz. vol. 183; p. 591.
Anderson, Henry A., Missoula, Mont. Curtain-pole. No. 1,026,647; May 21; Sp. p. 3430; Gaz. vol. 178; p. 599.
Anderson, Henry A., Missoula, Mont. Curtain-pole. No. 1,037,846; Sept. 10; Gaz. vol. 182; p. 256.
Anderson, Herman C., Mount Vernon, Wash. Gate. No. 1,030,222; June 18; Sp. p. 4684; Gaz. vol. 179; p. 805.
Anderson, Hugo J., Melrose, Mass. Water-skee. No. 1,014,993; Jan. 16; Sp. p. 4248; Gaz. vol. 174; p. 715.
Anderson, Inga O. (See Anderson, Haldor A., assignor.)
Anderson, James, Jr., Omaha, Nebr. Danger-signal for electric cars. No. 1,032,102; July 9; Gaz. vol. 180; p. 474.

Alphabetical list of patentees—Continued.

Anderson, James B., Shaler township, Allegheny county, assignor of one-fourth to W. G. Boyle, one-fourth to J. Gehring, and one-fourth to J. Fuerstenberg, Allegheny county, Pa. Gas-burner. No. 1,014,111; Jan. 9; Sp. p. 2286; Gaz. vol. 174; p. 381.
Anderson, James D., Kansas City, Mo. Tire-rim. No. 1,043,658; Nov. 5; Gaz. vol. 184; p. 217.
Anderson, James J., Vancouver, British Columbia, Canada. Furnace for obtaining metal from ore or matte. No. 1,020,531; Mar. 19; Sp. p. 3231; Gaz. vol. 176; p. 578.
Anderson, James S. and R., Wardner, British Columbia, Canada. Lath. No. 1,014,557; Jan. 9; Sp. p. 3202; Gaz. vol. 174; p. 533.
Anderson, John. (See Proctor, Loftus, and Anderson.)
Anderson, John, Mount Vernon, Me. Curtain-pole. No. 1,032,265; July 9; Gaz. vol. 180; p. 530.
Anderson, John A., Geneseo, Ill. Selector for corn-droppers. No. 1,020,591; Mar. 19; Sp. p. 3369; Gaz. vol. 176; p. 599.
Anderson, John A., Geneseo, Ill. Corn-planter. No. 1,044,431; Nov. 12; Gaz. vol. 184; p. 513.
Anderson, John A., Worcester, Mass. Refrigerating device. No. 1,030,270; June 25; Sp. p. 4801; Gaz. vol. 179; p. 861.
Anderson, John B., Clipper, Wash. Flue-expander. No. 1,048,472; Dec. 24; Gaz. vol. 185; p. 1022.
Anderson, John C. A., assignor to Concealed Door Check Company of Delaware, Chicago, Ill. Door-check. No. 1,044,723; Nov. 19; Gaz. vol. 184; p. 645.
Anderson, John E., Chicago, Ill. Reel connection. No. 1,035,936; Aug. 20; Gaz. vol. 181; p. 586.
Anderson, John H., St. Paul, Minn. Bob-sled runner. No. 1,020,120; Mar. 12; Sp. p. 2376; Gaz. vol. 176; p. 406.
Anderson, John H., St. Paul, Minn. Harrow-tooth fastening. No. 1,023,492; Apr. 16; Sp. p. 3703; Gaz. vol. 177; p. 655.
Anderson, John J., Franklin, Minn. Twine-cutter. No. 1,020,788; Mar. 19; Sp. p. 3798; Gaz. vol. 176; p. 665.
Anderson, John L., Ogden, Utah. Universal electric induction heating element. No. 1,023,791; Apr. 23; Sp. p. 4270; Gaz. vol. 177; p. 777.
Anderson, John L., assignor of one-half to P. D. Kline, Ogden, Utah. Pipe and conduit bender. No. 1,047,480; Dec. 17; Gaz. vol. 185; p. 656.
Anderson, John M., Fullerton, N. D. Clutch mechanism. No. 1,035,135; Aug. 13; Gaz. vol. 181; p. 274.
Anderson, John S., St. Louis, Mo., assignor to North and Judd Manufacturing Company, New Britain, Conn. Face-drop. No. 1,025,557; May 7; Sp. p. 1016; Gaz. vol. 178; p. 157.
Anderson, John T., assignor to Davenport Machine & Foundry Co., Davenport, Iowa. Rotary press. No. 1,040,842; Oct. 8; Gaz. vol. 183; p. 427.
Anderson, John V., Seattle, Wash. Marline-spike. No. 1,014,200; Jan. 9; Sp. p. 2454; Gaz. vol. 174; p. 412.
Anderson, John W., Jr., Woodland, Ill. Gravity-conveyer. No. 1,038,514; Sept. 17; Gaz. vol. 182; p. 518.
Anderson, Joseph, Providence, R. I. Pin-point guard. No. 1,024,762; Apr. 30; Sp. p. 6513; Gaz. vol. 177; p. 1147.
Anderson, Lars, Chicago, Ill. Carbureter. No. 1,035,937; Aug. 20; Gaz. vol. 181; p. 587.
Anderson, Lars, Chicago, Ill. Air-valve for carbureters. No. 1,035,938; Aug. 20; Gaz. vol. 181; p. 587.
Anderson, Lars M., Crookston, assignor to G. N. Helgeson, Minneapolis, Minn. Fanning-mill. No. 1,031,504; July 2; Gaz. vol. 180; p. 228.
Anderson, Lawrence, Chicago, Ill. Dust-separator. No. 1,039,008; Sept. 17; Gaz. vol. 182; p. 689.
Anderson, Leo M. and M. L., Ramsey, N. J. Combination feeder, fountain, and heater. No. 1,023,352; Apr. 16; Sp. p. 3423; Gaz. vol. 177; p. 611.
Anderson, Luther B., Seattle, Wash. Street-indicator. No. 1,045,494; Nov. 26; Gaz. vol. 184; p. 943.
Anderson Manufacturing Company, The. (See Anderson, Newton J., assignor.)
Anderson, May L. (See Anderson, Leo M. and M. L.)
Anderson, Nellie, administratrix. (See Miller, Gustave P. S.)
Anderson, Nels O., and F. O. Hutchings, San Francisco, Cal., assignors to Excelsior Advertising Device Co. Electrical advertising device. No. 1,036,411; Aug. 20; Gaz. vol. 181; p. 754.
Anderson, Newton J., Coffeyville, Kans. Oxygen-generator. No. 1,038,065; Sept. 10; Gaz. vol. 182; p. 331.
Anderson, Newton J., Coffeyville, Kans., assignor to The Anderson Manufacturing Company, Tulsa, Okla. Welding plant. No. 1,047,140; Dec. 17; Gaz. vol. 185; p. 533.
Anderson, Nils, Omaha, Nebr. Pipe-laying machine. No. 1,028,523; June 4; Sp. p. 1007; Gaz. vol. 179; p. 153.
Anderson, Olaf, Chicago, Ill. Center-bearing for railway-cars. No. 1,037,576; Sept. 3; Gaz. vol. 182; p. 135.
Anderson, Olof, Chicago, Ill. Box-car ladder. No. 1,022,765; Apr. 9; Sp. p. 2179; Gaz. vol. 177; p. 373.
Anderson, Oscar, Gloucester, Mass. Easel. No. 1,023,117; Apr. 16; Sp. p. 2927; Gaz. vol. 177; p. 531.
Anderson, Oscar, East Lake, Minn. Spark-arrester. No. 1,023,792; Apr. 23; Sp. p. 4272; Gaz. vol. 177; p. 778.
Anderson, Oscar T., Waterloo, Iowa. Tool for cutting teeth on worm-wheels. No. 1,023,353; Apr. 16; Sp. p. 3425; Gaz. vol. 177; p. 612.
Anderson, Pahr, Cambridge, Mass., assignor to Dover Stamping & Manufacturing Company, Portland, Me. Valve-seat. No. 1,041,945; Oct. 22; Gaz. vol. 183; p. 870.
Anderson, Peter, assignor to J. Lucas, Spokane, Wash. Motor. No. 1,025,776; May 7; Sp. p. 1462; Gaz. vol. 178; p. 230.
Anderson, Robert, Cincinnati, Ohio. Form work for concrete construction. No. 1,014,738; Jan. 16; Sp. p. 3670; Gaz. vol. 174; p. 627.
Anderson, Robert, Cincinnati, Ohio. Beam-form and joist for concrete structures. No. 1,015,279; Jan. 23; Sp. p. 4825; Gaz. vol. 174; p. 837.
Anderson, Robert, assignor to The Ferro Concrete Construction Company, Cincinnati, Ohio. Strut. No. 1,043,893; Nov. 12; Gaz. vol. 184; p. 329.
Anderson, Robert H., San Diego, Cal. Wall or recess bed. No. 1,015,376; Jan. 23; Sp. p. 5052; Gaz. vol. 174; p. 871.
Anderson, Robert H., Portales, N. Mex. Horse-detacher. No. 1,044,119; Nov. 12; Gaz. vol. 184; p. 407.
Anderson, Roy. (See Anderson, James S. and R.)
Anderson, Roy F. (See Haeske and Anderson.)
Anderson, Rufus L., Plant City, Fla. Brush. No. 1,022,920; Apr. 9; Sp. p. 2493; Gaz. vol. 177; p. 425.
Anderson, Sarah, Ridgewood, N. J. Table-service device. No. 1,022,290; Apr. 2; Sp. p. 1129; Gaz. vol. 177; p. 180.
Anderson Tool Company, The. (See Dunn, Frank P., assignor.)
Anderson, Walker G., Seattle, Wash. Display-rack. No. 1,015,926; Jan. 30; Sp. p. 6232; Gaz. vol. 174; p. 1086.
Anderson, William, assignor of one-third to T. S. Helland, Parkland, Wash. Turbine. No. 1,041,562; Oct. 15; Gaz. vol. 183; p. 702.
Anderson, William B., Everett, Mass. Bearing for shafts and axles. No. 1,044,000; Nov. 12; Gaz. vol. 184; p. 367.
Anderson, William C., San Jose, Cal. Air-cooling apparatus for fruit. No. 1,024,763; Apr. 30; Sp. p. 6514; Gaz. vol. 177; p. 1147.
Anderson, William C., San Jose, Cal. Apparatus for separating substances of different specific gravities. No. 1,025,231; May 7; Sp. p. 265; Gaz. vol. 178; p. 44.
Anderson, William C., assignor to Anderson-Barngrover Mfg. Co., San Jose, Cal. Raisin-stemmer. No. 1,048,269; Dec. 24; Gaz. vol. 185; p. 952.
Anderson, William C., and A. R. Thompson, assignors to Anderson-Barngrover Mfg. Co., San Jose, Cal. Exhaust-box for fruit-canning. No. 1,033,369; July 23; Gaz. vol. 180; p. 988.
Anderson, William C., and A. R. Thompson, assignors to Anderson-Barngrover Mfg. Co., San Jose, Cal. Exhaust-box for fruit-canning. No. 1,036,534; Aug. 27; Gaz. vol. 181; p. 827.
Anderson, William E. J., Trinidad, Colo. Farm-wagon. No. 1,043,659; Nov. 5; Gaz. vol. 184; p. 217.
Anderson, William N., Troy, Idaho. Music-stand. No. 1,013,718; Jan. 2; Sp. p. 1387; Gaz. vol. 174; p. 217.
Anderson, William N. M., Los Angeles, Cal. Gaff or grappling-hook. No. 1,031,903; July 9; Gaz. vol. 180; p. 408.
Anderson, Williamson D., El Paso, Tex., and E. J. Shearer, Lordsburg, N. Mex. Triple valve. No. 1,035,297; Aug. 13; Gaz. vol. 181; p. 331.
Andersson, Carl A., Bronäs, Sweden. Plow. No. 1,033,368; July 23; Gaz. vol. 180; p. 987.
Andersson, Carl E. (See Tenow and Andersson.)
Andersson, Frans O., Stockholm, Sweden. Hollow brick. No. 1,041,401; Oct. 15; Gaz. vol. 183; p. 650.
Andersson, Gustav M. (See Kindberg, Alfred, assignor.)
Andersson, Olof B. (See Edström and Andersson.)
Anderton, William G., and C. S. Jarvis, Philadelphia, Pa. License-tag for motor-vehicles. No. 1,020,472; Mar. 19; Sp. p. 3098; Gaz. vol. 176; p. 559.
Andes, Ulysses S., Manila, Philippine Islands. Baking-oven. No. 1,046,368; Dec. 3; Gaz. vol. 185; p. 198.
Andlauer, Raymond, Kansas City, Kans. Curtain-fixture. No. 1,033,224; July 23; Gaz. vol. 180; p. 939.
Andrade, Cipriano, Jr., New York, N. Y. Pawl-and-ratchet mechanism. No. 1,016,537; Feb. 6; Sp. p. 707; Gaz. vol. 175; p. 106.
Andrade, Cipriano, Jr., New York, N. Y. Double-acting windlass. No. 1,018,545; Feb. 27; Sp. p. 5173; Gaz. vol. 175; p. 900.
Andrae, Ernst H., Dallas, Tex. Stabilizer for flying-machines. No. 1,040,843; Oct. 8; Gaz. vol. 183; p. 428.
André, Charles, Lyon, France. Portable oven. No. 1,020,174; Mar. 12; Sp. p. 2489; Gaz. vol. 176; p. 424.
Andrejkovits, Vincent, Wallingford, Conn. Curtain-fixture. No. 1,041,563; Oct. 15; Gaz. vol. 183; p. 702.
Andren, Fritz L., Chicago, Ill. Bed-couch. No. 1,036,172; Aug. 20; Gaz. vol. 181; p. 670.
Andres, J. Frank, assignor to United States Safety Gas Machine Company, St. Louis, Mo. Measuring device. No. 1,026,294; May 14; Sp. p. 2650; Gaz. vol. 178; p. 444.

Alphabetical list of patentees—Continued.

Andres, Jacob, Helena, Ohio. Nozzle for disinfectant and wall-paper-removing apparatus. No. 1,016,197; Jan. 30; Sp. p. 6782; Gaz. vol. 174; p. 1179.
Andres, William S., and P. Meyer, assignors to Snap Detachable Belt Fastener Co., Newark, N. J. Belt-fastener. No. 1,033,774; July 30; Gaz. vol. 180; p. 1145.
Andresen, Herman P., assignor to D. J. Evans, Chicago, Ill. Handling, unloading, storing, and reloading plant. No. 1,014,994; Jan. 16; Sp. p. 4250; Gaz. vol. 174; p. 715.
Andrew, Clarence A. (See Wake, Charles E., assignor.)
Andrew, James A., Victoria, British Columbia, Canada. Automatic leaf-turner. No. 1,022,921; Apr. 9; Sp. p. 2495; Gaz. vol. 177; p. 425.
Andrew, James T., Montgomery, Ala. Cross-tie. No. 1,033,775; July 23; Gaz. vol. 180; p. 1145.
Andrew, James T., Montgomery, Ala. Means for attaching safety-wheels to car-axles. No. 1,043,559; Nov. 5; Gaz. vol. 184; p. 184.
Andrew, James T., Montgomery, Ala. Cross-tie. No. 1,047,876; Dec. 17; Gaz. vol. 185; p. 794.
Andrew, William, Cincinnati, Ohio. Heating apparatus. No. 1,018,472; Feb. 27; Sp. p. 4946; Gaz. vol. 175; p. 874.
Andrews, Aaron K. (See Vollmer and Andrews.)
Andrews, Benjamin, Los Angeles, Cal. Oil-well pump. No. 1,013,579; Jan. 2; Sp. p. 1052; Gaz. vol. 174; p. 169.
Andrews, Charles, Jr., assignor to Andrews Wire & Iron Works, Rockford, Ill. Dish-drainer. No. 1,029,906; June 18; Sp. p. 4021; Gaz. vol. 179; p. 699.
Andrews, Claude Y. (See Batchelor, Fredrick, assignor.)
Andrews, Daniel A., assignor to The Standard Manufacturing Company, Cedar Keys, Fla. Whisk-broom. No. 1,017,069; Feb. 13; Sp. p. 1866; Gaz. vol. 175; p. 323.
Andrews, David H. (See Ketchum and Andrews.)
Andrews, Frank J., Holden, Alberta, Canada. Adjustable cowl for smoke-stacks. No. 1,013,358; Jan. 2; Sp. p. 594; Gaz. vol. 174; p. 95.
Andrews, Fred, Chicago, Ill. Sanitary display-rack. No. 1,044,471; Nov. 19; Gaz. vol. 184; p. 557.
Andrews, Frederick, Mercer, New Zealand. Marking device for attachment to the ears of animals. No. 1,026,423; May 14; Sp. p. 2943; Gaz. vol. 178; p. 487.
Andrews, George C., and E. H. Williams, Minneapolis, Minn. Hot-water and steam radiator. No. 1,023,793; Apr. 23; Sp. p. 4273; Gaz. vol. 177; p. 778.
Andrews, George E., Santa Rosa, Cal. Center-bearing for railway-cars. No. 1,041,946; Oct. 22; Gaz. vol. 183; p. 870.
Andrews, H. B., executor. (See Paul and Stasand.)
Andrews, James H., Washington, D. C. Attachment for picture-frames. No. 1,024,169; Apr. 23; Sp. p. 5168; Gaz. vol. 177; p. 907.
Andrews, Joseph D. F., London, England. Punka-fan. No. 1,027,166; May 21; Sp. p. 4626; Gaz. vol. 178; p. 777.
Andrews, Launcelot W., Davenport, Iowa. Producing oxalates. No. 1,018,092; Feb. 20; Sp. p. 4149; Gaz. vol. 175; p. 713.
Andrews, Marcus P., Petersburg, Va. Manufacturing artificial blocks. No. 1,031,505; July 2; Gaz. vol. 180; p. 228.
Andrews, William S., Schenectady, N. Y., assignor to General Electric Company. Electric heater. No. 1,022,016; Apr. 2; Sp. p. 567; Gaz. vol. 177; p. 89.
Andrews, William S., Schenectady, N. Y., assignor to General Electric Company. Automatic cut-out for electric heaters. No. 1,025,852; May 7; Sp. p. 1623; Gaz. vol. 178; p. 257.
Andrews, William S., and T. Van Aller, Schenectady, N. Y. Igniting device. No. 1,024,713; Apr. 30; Sp. p. 6413; Gaz. vol. 177; p. 1129.
Andrews Wire & Iron Works. (See Andrews, Charles, Jr., assignor.)
Andri, Alfred, Liege, assignor to Fabrique Nationale D'Armes de Guerre Societe Anonyme, Herstal, Belgium. Gearing. No. 1,017,070; Feb. 13; Sp. p. 1867; Gaz. vol. 175; p. 324.
Andrie, Norman E., Centerville, Md. Pneumatic hub. No. 1,028,656; June 4; Sp. p. 1280; Gaz. vol. 179; p. 197.
Andruskewicz, Aleksander, Pullman, Ill. Hanger for curtains or the like. No. 1,042,521; Oct. 29; Gaz. vol. 183; p. 1092.
Andzik, Joseph, Dayton, Ohio. Lamp-adjusting mechanism. No. 1,016,726; Feb. 6; Sp. p. 1114; Gaz. vol. 175; p. 171.
Anello, Francesco P., Newark, N. J. Umbrella and parasol. No. 1,021,291; Mar. 26; Sp. p. 4853; Gaz. vol. 176; p. 886.
Angelini, Oreste, Rome, Italy. Hydraulic duplex motor. No. 1,034,332; July 30; Gaz. vol. 180; p. 1341.
Angell, Edmund R., Derry, N. H. Condenser for gas apparatus. No. 1,020,339; Mar. 12; Sp. p. 2811; Gaz. vol. 176; p. 477.
Angell, Edwin E., Somerville, Mass. Elevator-lock. No. 1,041,228; Oct. 15; Gaz. vol. 183; p. 591.
Angell, Hans, Missoula, Mont. Saw-filing machine. No. 1,024,387; Apr. 23; Sp. p. 5586; Gaz. vol. 177; p. 980.
Angell, John N., Fort Pierre, S. D. Combined steam-gage and safety-valve. No. 1,044,001; Nov. 12; Gaz. vol. 184; p. 368.
Angell, William R., assignor of one-half to F. G. Lundeen, Courtenay, N. D. Hame-fastener. No. 1,019,291; Mar. 5; Sp. p. 634; Gaz. vol. 176; p. 99.
Angenend, Peter A. (See Lagarde and Angenend.)
Angenend, Peter A., Jr. (See Lagarde and Angenend.)
Anger, John E., Preston, England. Vehicle-spring. No. 1,031,612; July 2; Gaz. vol. 180; p. 264.
Angerer, Victor, Ridley Park, assignor to William Wharton, Jr., & Company, Philadelphia, Pa. Track structure. No. 1,031,506; July 2; Gaz. vol. 180; p. 229.
Angerer, Victor, Ridley Park, assignor to William Wharton, Jr., & Company, Incorporated, Philadelphia, Pa. Switch structure. No. 1,037,817; Sept. 3; Gaz. vol. 182; p. 213.
Angerstein, Hermann, Berlin, Germany, assignor, by mesne assignments, to American Stamp & Ticket Vending Machine Co., New York, N. Y. Apparatus for affixing stamps to letters. No. 1,045,113; Nov. 26; Gaz. vol. 184; p. 810.
Angier, Carl E., Beardstown, Ill. Gage-cock. No. 1,029,963; June 18; Sp. p. 4141; Gaz. vol. 179; p. 717.
Angier, Edward H., Quincy, Mass. Corrugated sheet. No. 1,025,443; May 7; Sp. p. 752; Gaz. vol. 178; p. 117.
Angier, Edward H., Quincy, Mass. Carton. No. 1,025,444; May 7; Sp. p. 754; Gaz. vol. 178; p. 117.
Angle, Charles L., Lawrenceville, Ill. Oil-can. No. 1,046,713; Dec. 10; Gaz. vol. 185; p. 360.
Angle, Edward H., New London, Conn. Dental tooth regulating and retaining appliance. No. 1,014,028; Jan. 9; Sp. p. 2102; Gaz. vol. 174; p. 353.
Angle, Edward H., New London, Conn. Dental tooth-regulating appliance. No. 1,014,029; Jan. 9; Sp. p. 2105; Gaz. vol. 174; p. 353.
Angle, Edward H., New London, Conn. Dental tooth-regulating appliance. No. 1,014,030; Jan. 9; Sp. p. 2107; Gaz. vol. 174; p. 353.
Angle, Edward H., New London, Conn., and J. L. Young, New Rochelle, N. Y.; said Young assignor to said Angle. Dental tooth-regulating appliance. No. 1,039,683; Oct. 1; Gaz. vol. 183; p. 3.
Anglo-American Cabinet Co. (See Dewar, William H., assignor.)
Anglo French Exploration Company, The. (See Arbuckle, Alexander J., assignor.)
Anglus, Frank C., assignor of one-fourth to F. T. Hawes and one-fourth to F. S. Francis, Centerville, Cal. Railway-tie. No. 1,047,367; Dec. 17; Gaz. vol. 185; p. 617.
Angold, Arthur E., Manchester, England. Electric-arc lamp. No. 1,019,292; Mar. 5; Sp. p. 637; Gaz. vol. 176; p. 100.
Angsten-Koch Company. (See Phillips, Virgil W., assignor.)
Angus, Arthur R., Neutral Bay, near Sydney, New South Wales, Australia. Running-gear of railway-cars. No. 1,033,294; July 23; Gaz. vol. 180; p. 963.
Anhorn, Emanuel, Glen Ullin, N. D. Door-check. No. 1,044,843; Nov. 19; Gaz. vol. 184; p. 687.
Anita Safety Match Company. (See Smith, Charles F., assignor.)
Ankerwerke A. G. vormals Hengstenberg & Co. (See Trog, Carl, assignor.)
Anklam, William F., assignor to C. M. Hall Lamp Company, Detroit, Mich. Lamp. No. 1,043,791; Nov. 12; Gaz. vol. 184; p. 293.
Anlauf, Franz J. (See Anlauf, Pius A. and F. J.)
Anlauf, Pius A. and F. J., Curtin, Oreg. Logging-bunk. No. 1,020,012; Mar. 12; Sp. p. 2141; Gaz. vol. 176; p. 369.
Annable Pneumatic Spring Company. (See Annable, Warren W., assignor.)
Annable, Warren W., Grand Rapids, assignor to Annable Pneumatic Spring Company, Detroit, Mich. Vehicle-spring. No. 1,013,855; Jan. 9; Sp. p. 1705; Gaz. vol. 174; p. 295.
Annable, Warren W., assignor of one-fourth to F. Z. Pantlind, Grand Rapids, Mich. Transmission-gearing. No. 1,043,499; Nov. 5; Gaz. vol. 184; p. 163.
Annand, Robert C., South Shields, England. Associating mechanism for web printing and folding machinery. No. 1,040,256; Oct. 8; Gaz. vol. 183; p. 225.
Anne, George W., Sr., Lancaster, Pa. Fire-escape. No. 1,049,033; Dec. 31; Gaz. vol. 185; p. 1256.
Annett, Charles R. (See Neumann and Annett.)
Anschel, Leo, Dortmund, Germany. Rotating disk cutting-machine. No. 1,020,873; Mar. 19; Sp. p. 3982; Gaz. vol. 176; p. 694.
Anschutz, Harry, assignor to F. W. Adams, Chicago, Ill. Anchor-plate. No. 1,047,727; Dec. 17; Gaz. vol. 185; p. 743.
Anschutz-Kaempfe, Hermann, Kiel, Germany. Gyroscope. No. 1,019,582; Mar. 5; Sp. p. 1290; Gaz. vol. 176; p. 193.
Ansco Company. (See Bornmann, Carl, assignor.)
Ansco Company. (See Topliff and Bornmann, assignors.)
Ansley, Frank, Spokane, Wash. Smoking-pipe. No. 1,021,963; Apr. 2; Sp. p. 460; Gaz. vol. 177; p. 73.
Ansley, George W., Spokane, Wash. Hammer attachment. No. 1,017,491; Feb. 13; Sp. p. 2789; Gaz. vol. 175; p. 470.
Ansonia Clock Company, The. (See Treganza, Howard J., assignor.)

Alphabetical list of patentees—Continued.

Ansonia O. & C. Company, The. (See Clauss, George E., assignor.)
Anstice, Mortimer R., Rochester, N. Y. Carbureter. No. 1,038,262; Sept. 10; Gaz. vol. 182; p. 397.
Antelotti, Frank J., Norfolk, Va. Foot-lock for printers' galleys. No. 1,015,257; Jan. 16; Sp. p. 4771; Gaz. vol. 174; p. 803.
Anthony, Albert B., Sterling, Ill. Beehive. No. 1,036,950; Aug. 27; Gaz. vol. 181; p. 965.
Anthony, Alfred R., assignor to The Anthony Company, New York, N. Y. Combined oil and gas burner. No. 1,022,649; Apr. 9; Sp. p. 1897; Gaz. vol. 177; p. 331.
Anthony, Alfred R., assignor to The Anthony Company, New York, N. Y. Hydrocarbon-burner. No. 1,023,707; Apr. 16; Sp. p. 4113; Gaz. vol. 177; p. 722.
Anthony, Charles. (See Roberts, David A., assignor.)
Anthony, Charles H., St. James, Mo. Stirring device. No. 1,048,025; Dec. 24; Gaz. vol. 185; p. 871.
Anthony Company, The. (See Anthony, Alfred R., assignor.)
Anthony, David E., *et al.* (See Braddock, Isaac A., assignor.)
Anthony, John H., Hickman, Ark. Log-wagon attachment. No. 1,021,292; Mar. 26; Sp. p. 4855; Gaz. vol. 176; p. 886.
Anthony, Marcus O., Englewood, N. J., assignor, by mesne assignments, of one-half to C. H. Walker and one-half to D. I. Garretson, New York, N. Y. Telegraphy. No. 1,046,714; Dec. 10; Gaz. vol. 185; p. 360.
Anthony, Noel L., Cranston, R. I. Coin-holder. No. 1,032,319; July 9; Gaz. vol. 180; p. 549.
Anthony, Noel L., Cranston, R. I. Lock for car-doors. No. 1,038,815; Sept. 17; Gaz. vol. 182; p. 624.
Anthony, Noel L., Cranston, R. I. Coin-holder. No. 1,043,560; Nov. 5; Gaz. vol. 184; p. 184.
Anthony, Wendell P., Eddystone, assignor to Wm. Simpson & Sons, Philadelphia, Pa. Mowing-machine. No. 1,022,291; Apr. 2; Sp. p. 1130; Gaz. vol. 177; p. 180.
Anthony, Wendell P., Eddystone, assignor to Wm. Simpson & Sons, Philadelphia, Pa. Mowing-machine. No. 1,022,292; Apr. 2; Sp. p. 1131; Gaz. vol. 177; p. 181.
Antifaev, Alexis, Pelly, Saskatchewan, Canada. Trunk-lock. No. 1,043,188; Nov. 5; Gaz. vol. 184; p. 51.
Antisdel, Lloyd S., Chicago, Ill. Card business system. No. 1,022,170; Apr. 2; Sp. p. 888; Gaz. vol. 177; p. 141.
Antiseptol Liquid Soap Company. (See Voges, August, assignor.)
Antoine, Alfred D. (See Travis and Antoine.)
Antoine, Alfred D. (See Travis, Davis, and Antoine.)
Antoni, Frederic A., Cologne, assignor to Firm of J. Wahlen, Cologne-Ehrenfeld, Germany. Producing coats. No. 1,031,613; July 2; Gaz. vol. 180; p. 265.
Antoniades, Emmanuel, Smyrna, Turkey. Hull and superstructure of ships and boats. No. 1,021,294; Mar. 26; Sp. p. 4858; Gaz. vol. 176; p. 887.
Antonuccio, Joseph, Oakland, Cal. Burner. No. 1,014,932; Jan. 16; Sp. p. 4120; Gaz. vol. 174; p. 694.
Antonuccio, Joseph, Fruitvale, Cal. Combination kitchen-boiler. No. 1,035,514; Aug. 13; Gaz. vol. 181; p. 407.
Antopol, Israel A., Brooklyn, N. Y. Embroidering-machine. No. 1,031,681; July 9; Gaz. vol. 180; p. 331.
Anzi, Ambrose B., Trinidad, Colo. Shock-absorber for motor-cycles. No. 1,039,684; Oct. 1; Gaz. vol. 183; p. 3.
Apel, Adolph E., Ventnor, N. J. Boat. No. 1,042,636; Oct. 29; Gaz. vol. 183; p. 1132.
Apex Horseshoe Co., The. (See Messacar, William E., assignor.)
Apfel, Neelie B. (See Apfel, Philip F. and N. B.)
Apfel, Philip F. and N. B., Seattle, Wash. Cement material. No. 1,014,995; Jan. 16; Sp. p. 4264; Gaz. vol. 174; p. 716.
App, James H., Detroit, Mich. Drive mechanism. No. 1,029,736; June 18; Sp. p. 3631; Gaz. vol. 179; p. 640.
Appel, Benjamin, and S. S. Goldman, St. Louis, Mo. Fuel composition. No. 1,019,746; Mar. 12; Sp. p. 1605; Gaz. vol. 176; p. 281.
Appel, Daniel, East Cleveland, Ohio, assignor to Union Paper Bag Machine Company, Philadelphia, Pa. Paper bag. No. 1,029,783; June 18; Sp. p. 3721; Gaz. vol. 179; p. 655.
Appel, Daniel, East Cleveland, Ohio, assignor to Union Paper Bag Machine Company, Philadelphia, Pa. Manufacture of paper bags. No. 1,029,784; June 18; Sp. p. 3723; Gaz. vol. 179; p. 655.
Appel, Moses, Baltimore, Md. Electric furnace. No. 1,013,359; Jan. 2; Sp. p. 597; Gaz. vol. 174; p. 95.
Appelbee & Neuman. (See Hall, Henry, assignor.)
Appelman, Erastus W., Clermont, Iowa, assignor to B. F. Blocklinger, trustee. Land-drain. No. 1,015,530; Jan. 23; Sp. p. 5382; Gaz. vol. 174; p. 922.
Applas, Clarence S., Moline, Ill. Auxiliary vehicle-seat. No. 1,013,265; Jan. 2; Sp. p. 381; Gaz. vol. 174; p. 61.
Applas, Clarence S., Moline, Ill. Vehicle-curtain. No. 1,024,305; Apr. 23; Sp. p. 5453; Gaz. vol. 177; p. 955.
Apple, Vincent G., Dayton, Ohio. Spark-plug for internal-combustion engines. No. 1,025,232; May 7; Sp. p. 268; Gaz. vol. 178; p. 45.
Apple, Vincent G., Dayton, Ohio. Dynamo-electric machine. No. 1,031,316; July 2; Gaz. vol. 180; p. 165.
Apple, Vincent G., Dayton, Ohio. Commutator. No. 1,032,802; July 16; Gaz. vol. 180; p. 758.
Apple, Vincent G., Dayton, Ohio. Electric distribution system. No. 1,034,561; Aug. 6; Gaz. vol. 181; p. 54.
Apple, Vincent G., Dayton, Ohio. Lamp. No. 1,034,562; Aug. 6; Gaz. vol. 181; p. 54.
Apple, Vincent G., Dayton, Ohio. Electrical distribution system and apparatus. No. 1,036,951; Aug. 27; Gaz. vol. 181; p. 965.
Apple, Vincent G., Dayton, Ohio. Power-transmission device. No. 1,039,685; Oct. 1; Gaz. vol. 183; p. 4.
Apple, Vincent G., Dayton, Ohio. Power-transmission gearing. No. 1,040,604; Oct. 8; Gaz. vol. 183; p. 347.
Apple, Vincent G., Dayton, Ohio, assignor to Dayton Electrical Manufacturing Co. Instrument set for electrical distribution systems. No. 1,021,293; Mar. 26; Sp. p. 4856; Gaz. vol. 176; p. 886.
Applebaugh, Eugene M., Danville, Pa. Brake-head. No. 1,013,101; Jan. 2; Sp. p. 14; Gaz. vol. 174; p. 5.
Applebaugh, Eugene M., Danville, Pa. Brake-beam. No. 1,013,102; Jan. 2; Sp. p. 15; Gaz. vol. 174; p. 5.
Applebaugh, Eugene M., Danville, Pa. Brake-head. No. 1,013,103; Jan. 2; Sp. p. 16; Gaz. vol. 174; p. 5.
Appleby, Frank, and E. A. Hubbart, Watts Flats, N. Y. Bag-holder. No. 1,018,228; Feb. 20; Sp. p. 4428; Gaz. vol. 175; p. 760.
Appleby, John F., Chicago, Ill. Beet-harvester. No. 1,044,472; Nov. 19; Gaz. vol. 184; p. 558.
Appleby, John F., Chicago, Ill., assignor to Dixie Cotton Picker Co., Redfield, S. D. Cotton-harvesting machine. No. 1,024,714; Apr. 30; Sp. p. 6414; Gaz. vol. 177; p. 1130.
Applegate, Eugene W., Hoboken, N. J., assignor to Applegate Sanitary Vacuum Sweeper Co. Vacuum-cleaner. No. 1,016,600; Feb. 6; Sp. p. 846; Gaz. vol. 175; p. 127.
Applegate, Samuel T., Louisville, Ky. Indicator. No. 1,024,051; Apr. 23; Sp. p. 4892; Gaz. vol. 177; p. 866.
Applegate Sanitary Vacuum Sweeper Co. (See Applegate, Eugene W., assignor.)
Appleget, Cyrus M., assignor of one-fourth to O. L. Young and one-fourth to F. J. Donovan, North Yakima, Wash. Ironing-machine. No. 1,046,936; Dec. 10; Gaz. vol. 185; p. 434.
Appler, Grafton W., Lyons, N. Y. Electric gas-igniter for hot-water-circulating systems. No. 1,032,727; July 16; Gaz. vol. 180; p. 733.
Appleton, Albert I., assignor to Chicago Fuse Manufacturing Company, Chicago, Ill. Outlet-box. No. 1,016,925; Feb. 13; Sp. p. 1533; Gaz. vol. 175; p. 273.
Aragall, Joseph, assignor of one-half to J. H. Moran and one-half to T. Slatter, San Francisco, Cal. Folding umbrella. No. 1,042,522; Oct. 29; Gaz. vol. 183; p. 1092.
Aragall, Joseph, assignor of one-half to J. H. Moran and one-half to T. Slatter, San Francisco, Cal. Folding umbrella. No. 1,045,358; Nov. 26; Gaz. vol. 184; p. 894.
Aragon, Clements L., assignor of one-half to O. Ellmore, Ely, Nev. Mining-tool. No. 1,047,910; Dec. 24; Gaz. vol. 185; p. 835.
Arak, Jozsef. (See Kriszt, János, assignor.)
Araklian, K., *et al.*, trustees. (See Converse, Newton B., assignor.)
Arbetter Felling Machine Company. (See Arbetter, Wolf, assignor.)
Arbetter, Wolf, Chelsea, assignor to Arbetter Felling Machine Company, Boston, Mass. Sewing-machine. No. 1,035,939; Aug. 20; Gaz. vol. 181; p. 588.
Arbon, Paul. (See Prosser, John E., assignor.)
Arbuckle, Alexander J., Johannesburg, Transvaal. Settling-tank. No. 1,020,013; Mar. 12; Sp. p. 2143; Gaz. vol. 176; p. 369.
Arbuckle, Alexander J., Johannesburg, Transvaal. Feed and distributing means for separators. No. 1,030,271; June 25; Sp. p. 4802; Gaz. vol. 179; p. 861.
Arbuckle, Alexander J., Johannesburg, Transvaal, assignor of one-half to The Anglo French Exploration Company, Limited, London, England. Ore-treating apparatus. No. 1,036,535; Aug. 27; Gaz. vol. 181; p. 828.
Arbuthnot, Mark, Vancouver, British Columbia, Canada. Cutter-head. No. 1,015,927; Jan. 30; Sp. p. 6233; Gaz. vol. 174; p. 1086.
Arcade Manufacturing Company. (See Morgan, Charles, assignor.)
Arcade Manufacturing Company. (See Tscherning, Henry, assignor.)
Archambeau, Charles L., assignor of one-half to D. Cozzens and W. D. Williamson, Geyserville, Cal. Plowing mechanism. No. 1,040,488; Oct. 8; Gaz. vol. 183; p. 304.
Archer, Augustus R., Pittsburgh, Pa. Sheet-piling. No. 1,030,761; June 25; Sp. p. 6108; Gaz. vol. 179; p. 1038.
Archer, Hugh J., Chicago, Ill. Telegraphic relay. No. 1,041,718; Oct. 22; Gaz. vol. 183; p. 789.
Archer, James E., Chico, Cal. Apparatus for riveting cloth, leather, and similar material. No. 1,023,061; Apr. 9; Sp. p. 2782; Gaz. vol. 177; p. 474.
Archer-Kirk Company. (See Archer, William H., assignor.)

Alphabetical list of patentees—Continued.

Archer, Wesley, Los Angeles, Cal. Cigar and cigarette holder. No. 1,024,052; Apr. 23; Sp. p. 4893; Gaz. vol. 177; p. 867.
Archer, William H., assignor to Archer-Kirk Company, Toledo, Ohio. Spice-mill. No. 1,048,787; Dec. 31; Gaz. vol 185; p. 1171.
Archer, William J., Washingtonville, assignor of one-third to F. F. De Bolt, East Liverpool, Ohio. Game-board. No. 1,025,940; May 7; Sp. p. 1856; Gaz. vol. 178; p. 286.
Archibald, William R., Selma, Ala. Thermometer-case. No. 1,037,102; Aug. 27; Gaz. vol. 181; p. 1018.
Arctander, Axel B., St. Paul, Minn. Cooking utensil. No. 1,034,563; Aug. 6; Gaz. vol. 181; p. 55.
Ard, Reid, Sumter, S. C. Advertising-display mechanism. No. 1,040,988; Oct. 15; Gaz. vol. 183; p. 511.
Arden, Juliette, New York, N. Y. Broiler for gas-stoves. No. 1,021,499; Mar. 26; Sp. p. 5324; Gaz. vol. 176; p. 959.
Arellano, Francisco, assignor of one-third to E. A. Serna and one-third to C. O. Serna, Ysleta, Tex. Metallic tie and rail-fastener. No. 1,031,225; July 2; Gaz. vol. 180; p. 133.
Arend, Francis J., *et al.* (See Berrigan, John J., assignor.)
Arend, Francis J., *et al.* (See Leitch, Meredith, assignor.)
Arens, August, assignor to The American Hardware Corporation, New Britain, Conn. Lock. No. 1,028,423; June 4; Sp. p. 790; Gaz. vol. 179; p. 119.
Arens, August, assignor to The American Hardware Corporation, New Britain, Conn. Lock. No. 1,033,059; July 16; Gaz. vol. 180; p. 844.
Arens, August, assignor to American Hardware Corporation, New Britain, Conn. Lock. No. 1,043,750; Nov. 5; Gaz. vol. 184; p. 248.
Arens, August, and E. L. Teich, assignors to The American Hardware Corporation, New Britain, Conn. Hotel-lock-cylinder control. No. 1,017,725; Feb. 20; Sp. p. 3252; Gaz. vol. 175; p. 583.
Arey, Fred C., Oak Park, assignor to Northwestern Expanded Metal Company, Chicago, Ill. Cooling and lubricating apparatus for dies and metal-working machines. No. 1,036,173; Aug. 20; Gaz. vol. 181; p. 670.
Argabright, Ralph A., Dayton, Ohio. Combined locking-clamp and railway-tie for track-rails. No. 1,029,658; June 18; Sp. p. 3443; Gaz. vol. 179; p. 611.
Argall, Philip, Denver, Colo. Classifier. No. 1,044,844; Nov. 19; Gaz. vol. 184; p. 688.
Argall, Philip, Denver, Colo. Classifier. No. 1,044,845; Nov. 19; Gaz. vol. 184; p. 688.
Argo, Horace. (See Willners, John, assignor.)
Arkell, Bartlett, assignor of one-half to Beech-Nut Packing Company, Canajoharie, N. Y., one-fourth to W. A. Lorenz, and one-fourth to W. H. Honiss, Hartford, Conn. Treating conserves. No. 1,037,103; Aug. 27; Gaz. vol. 181; p. 1018.
Arkell & Smiths *et al.* (See Lorenz, William A., assignor.)
Arkenburgh, Weber H., Westfield, N. J., assignor to The Hall Signal Company. Railway-traffic-controlling system and apparatus. No. 1,030,961; July 2; Gaz. vol. 180; p. 38.
Arkinstall, Joseph. (See Drew, Arkinstall, and Dean.)
Arkinstall, Joseph. (See Drew, Arkinstall, Dean, and Howarth.)
Arkosi, Johan V. de. (See Tatarek, Edmond, assignor.)
Arledter, Herman, Frodsham, England. Apparatus for use in the manufacture or treatment of pulp for making paper and like materials. No. 1,048,123; Dec. 24; Gaz. vol. 185; p. 905.
Armbrust, Charles W., Crystal Lake, assignor of one-fourth to S. Stein, Chicago, Ill. Brake-shoe. No. 1,014,933; Jan. 16; Sp. p. 4121; Gaz. vol. 174; p. 694.
Armbrust, Charles W., Crystal Lake, assignor of one-fourth to S. Stein, Chicago, Ill. Brake-shoe. No. 1,015,771; Jan. 30; Sp. p. 5907; Gaz. vol. 174; p. 1034.
Armbrust, Charles W., Crystal Lake, assignor of one-fourth to S. Stein, Chicago, Ill. Brake-shoe. No. 1,019,583; Mar. 5; Sp. p. 1292; Gaz. vol. 176; p. 194.
Armbrust, Charles W., Crystal Lake, assignor of one-half to H. W. Armbrust, North Crystal Lake, Ill. Brake-shoe. No. 1,020,532; Mar. 19; Sp. p. 3232; Gaz. vol. 176; p. 578.
Armbrust, Charles W., Crystal Lake, assignor of one-fourth to S. Stein, Chicago, Ill. Brake-shoe. No. 1,022,397; Apr. 9; Sp. p. 1349; Gaz. vol. 177; p. 247.
Armbrust, Charles W., Crystal Lake, assignor of one-half to H. W. Armbrust, North Crystal Lake, Ill. Brake-head. No. 1,024,112; Apr. 23; Sp. p. 5031; Gaz. vol. 177; p. 889.
Armbrust, Charles W., Crystal Lake, assignor of one-half to H. W. Armbrust, North Crystal Lake, Ill. Brake-head. No. 1,027,581; May 28; Sp. p. 5472; Gaz. vol. 178; p. 957.
Armbrust, Harriet W. (See Armbrust, Charles W., assignor.)
Armel, Alexandre. (See Legrand and Armel.)
Armington, George A., Wickliffe, Ohio. Brake for hoisting machinery. No. 1,020,014; Mar. 12; Sp. p. 2146; Gaz. vol. 176; p. 370.
Armington, William A. (See Roessler and Armington.)
Armistead, William E., Sandersville, Ga. Ice-making apparatus. No. 1,027,304; May 21; Sp. p. 4900; Gaz. vol. 178; p. 824.
Armistead, William E., Sandersville, Ga. Apparatus for manufacturing ice. No. 1,027,305; May 21; Sp. p. 4903; Gaz. vol. 178; p. 825.
Armitage, Charles F., Jamestown, N. Y. Radiator. No. 1,015,531; Jan. 23; Sp. p. 5384; Gaz. vol. 174; p. 923.
Armitage, Joseph, assignor of one-half to P. Schneider, Cleveland, Ohio. Doffing mechanism. No. 1,035,403; Aug. 13; Gaz. vol. 181; p. 370.
Armitage, Joshua D., New York, N. Y. Thread and forming same. No. 1,031,614; July 2; Gaz. vol. 180; p. 265.
Armor Steel & Foundry Company. (See Gebhard, John W., assignor.)
Armour, George M. (See Longhead, Joseph B., assignor.)
Armour, William A., assignor to Seth Thomas Clock Company, Thomaston, Conn. Alarm-resetting means for clocks. No. 1,040,111; Oct. 1; Gaz. vol. 183; p. 147.
Armspear Manufacturing Company. (See Spear, Furman D., assignor.)
Armstead, Frank C., assignor, by mesne assignments, to The Colonial Trust Company, trustee, Pittsburgh, Pa. Furnace. No. 1,037,715; Sept. 3; Gaz. vol. 182; p. 181.
Armstrong-Blum Manufacturing Company. (See Blum, George J., assignor.)
Armstrong Brothers Tool Company. (See Sprink, Isaac W., assignor.)
Armstrong, Charles C., Marysville, Ohio. Globe-holder. No. 1,014,433; Jan. 9; Sp. p. 2984; Gaz. vol. 174; p. 494.
Armstrong, Charles C., Marysville, Ohio. Lawn-sprinkler. No. 1,014,434; Jan. 9; Sp. p. 2986; Gaz. vol. 174; p. 495.
Armstrong, Charles G., Orange, N. J. Elevator safety mechanism. No. 1,032,320; July 9; Gaz. vol. 180; p. 549.
Armstrong, Charles W. (See Anderson and Armstrong.)
Armstrong Cork Company. (See Belknap, Charles H., assignor.)
Armstrong Cork Company. (See Bentley, Louis L., assignor.)
Armstrong Cork Company. (See Jones, Alfred, assignor.)
Armstrong, Edward, Brooklyn, N. Y. Composition of matter. No. 1,041,229; Oct. 15; Gaz. vol. 183; p. 592.
Armstrong, Edwin J., Erie, Pa. Steam-engine. No. 1,029,253; June 11; Sp. p. 2566; Gaz. vol. 179; p. 435.
Armstrong, Harry Y., Elgin, Ill., assignor to Armstrong Wrapping Machine Company, Louisville, Ky. Mechanical movement. No. 1,045,102; Nov. 19; Gaz. vol. 184; p. 777.
Armstrong, James E., Weatherford, assignor to Standard Bale Wire Buckle Co., Fort Worth, Tex. Bale-tie buckle. No. 1,021,397; Mar. 26; Sp. p. 5102; Gaz. vol. 176; p. 924.
Armstrong, James T., London, and J. Mordan, Hughenden, England. Solidification of hydrocarbon oils. No. 1,041,564; Oct. 15; Gaz. vol. 183; p. 703.
Armstrong, John, North Bay, Ontario, Canada. Automatic running-board for cars. No. 1,016,926; Feb. 13; Sp. p. 1534; Gaz. vol. 175; p. 273.
Armstrong, John A., Gilnockie, Westcombe Park, England. Variable-speed gearing. No. 1,039,879; Oct. 1; Gaz. vol. 183; p. 70.
Armstrong, John D., *et al.* (See Halliday, George, assignor.)
Armstrong, Marcellus, Corvallis, Oreg. Candy-cutting machine. No. 1,013,634; Jan. 2; Sp. p. 1181; Gaz. vol. 174; p. 188.
Armstrong, Martin, Kansas City, Mo., assignor of one-half to W. K. Folks, Lawrence, Kans. Hydraulic vacuum-producer and air-compressor. No. 1,035,515; Aug. 13; Gaz. vol. 181; p. 407.
Armstrong, Martin B., London, Ohio. Guard-deflector for radiators. No. 1,042,378; Oct. 29; Gaz. vol. 183; p. 1039.
Armstrong, Roswell O., Minneapolis, Minn. Burial-vault. No. 1,034,185; July 30; Gaz. vol. 180; p. 1290.
Armstrong, Thomas H., assignor to S. Pearlman, Chicago, Ill. Gas-generator. No. 1,049,034; Dec. 31; Gaz. vol. 185; p. 1256.
Armstrong, Ulysses S., New Kensington, Pa. Cleaning-machine. No. 1,020,789; Mar. 19; Sp. p. 3799; Gaz. vol. 176; p. 665.
Armstrong, Walter J. (See Liggett and Armstrong.)
Armstrong, William H., Los Angeles, Cal. Railway-car truck. No. 1,036,952; Aug. 27; Gaz. vol. 181; p. 966.
Armstrong Wrapping Machine Company. (See Armstrong, Harry Y., assignor.)
Arnason, Olafer, Cottonwood, Minn. Reloading-tool. No. 1,023,913; Apr. 23; Sp. p. 4605; Gaz. vol. 177; p. 820.
Arnavat, Luis, Tampa, Fla. Non-refillable bottle. No. No. 1,036,412; Aug. 20; Gaz. vol. 181; p. 754.
Arndt, Franklin E., Galion, Ohio, assignor to The Galion Iron Works Company. Road-machine. No. 1,039,686; Oct. 1; Gaz. vol. 183; p. 4.
Arndt, George C., Portland, and G. N. Jack, Willamina, Oreg. Mining-machine bar. No. 1,026,295; May 14; Sp. p. 2652; Gaz. vol. 178; p. 444.
Arndt, Max, Aix-la-Chapelle, Germany. Apparatus for testing air or other gases. No. 1,044,969; Nov. 19; Gaz. vol. 184; p. 730.

Alphabetical list of patentees—Continued.

Arnesen, Johan, Jelöen, near Moss, Norway. Saw-filing machine. No. 1,021,295; Mar. 26; Sp. p. 4860; Gaz. vol. 176; p. 887.
Arnett, Anna W., Lawrence, Kans. Educational appliance. No. 1,013,856; Jan. 9; Sp. p. 1706; Gaz. vol. 174; p. 295.
Arnett, Samuel. (See Akin and Arnett.)
Arney, Robert H., Toms River, N. J., and W. J. Arney, Potts Grove, Pa. Machine for cutting and printing bank-notes. No. 1,036,774; Aug. 27; Gaz. vol. 181; p. 908.
Arney, William J. (See Arney, Robert H. and W. J.)
Arnhold, Henry P., and A. P. Witteman, Philadelphia, Pa.; said Arnhold assignor to said Witteman. Crank-shaft lathe. No. 1,015,117; Jan. 16; Sp. p. 4495; Gaz. vol. 174; p. 757.
Arnn, Albert, Little Ferry, N. J. Hanger for false work. No. 1,023,192; Apr. 16; Sp. p. 3117; Gaz. vol. 177; p. 558.
Arnold, Charles J. (See Jones and Arnold.)
Arnold, Charles L., Bardstown, Ky. Shipping-box. No. 1,038,816; Sept. 17; Gaz. vol. 182; p. 624.
Arnold, Claude S., Chautauqua, and J. E. Kinner, Rochester, N. Y. Heating attachment for tanks or reservoirs. No. 1,031,226; July 2; Gaz. vol. 180; p. 133.
Arnold, Clarence W., Pittsburgh, Pa. Safety-razor. No. 1,049,320; Dec. 31; Gaz. vol. 185; p. 1353.
Arnold, Edwin E., Detroit, Mich. Vehicle-axle. No. 1,035,404; Aug. 13; Gaz. vol. 181; p. 371.
Arnold, Emmer B., Los Angeles, Cal. Wave-force-utilizing device. No. 1,024,816; Apr. 30; Sp. p. 6626; Gaz. vol. 177; p. 1166.
Arnold, Frank K., assignor to Nashua Card Gummed & Coated Paper Company, Nashua, N. H. Coin-holding card. No. 1,034,564; Aug. 6; Gaz. vol. 181; p. 55.
Arnold, Fred E. (See Williams, Charles O., assignor.)
Arnold, Frederick T., U. S. Army. Mixing-machine. No. 1,041,947; Oct. 22; Gaz. vol. 183; p. 870.
Arnold, George A., assignor to Telepost Company, New York, N. Y. Keyboard telegraphic-tape perforator. No. 1,016,313; Feb. 6; Sp. p. 172; Gaz. vol. 175; p. 26.
Arnold, George A., assignor to Telepost Company, New York, N. Y. Telegraphic-tape perforator. No. 1,035,405; Aug. 13; Gaz. vol. 181; p. 371.
Arnold, Gilbert J., Torquay, England. Wheel having detachable rim. No. 1,039,348; Sept. 24; Gaz. vol. 182; p. 822.
Arnold, Horace L., New York, N. Y. Crank-shaft. No. 1,024,817; Apr. 30; Sp. p. 6628; Gaz. vol. 177; p. 1166.
Arnold, Isaac, Ottawa, Kans. Fruit-picker. No. 1,034,333; July 30; Gaz. vol. 180; p. 1341.
Arnold, Jacob F., assignor to H. H. Hutchinson, Massillon, Ohio. Label-holder. No. 1,020,175; Mar. 12; Sp. p. 2491; Gaz. vol. 176; p. 425.
Arnold, James M., Freeport, Ill. Burial-casket. No. 1,031,507; July 2; Gaz. vol. 180; p. 229.
Arnold, John F., Waterbury, Conn. Propeller-wheel. No. 1,029,907; June 18; Sp. p. 4022; Gaz. vol. 179; p. 699.
Arnold, Joseph M., Brussels-Kockelberg, Belgium. Combined collapsible chair and bag. No. 1,039,078; Sept. 24; Gaz. vol. 182; p. 727.
Arnold, Lewis E., Honolulu, Hawaii. Syruping-machine. No. 1,046,715; Dec. 10; Gaz. vol. 185; p. 360.
Arnold, Lewis E., Honolulu, Hawaii. Coloring pineapples. No. 1,046,716; Dec. 10; Gaz. vol. 185; p. 361.
Arnold, Matthew, San Jose, Cal. Ore-pulverizing machine. No. 1,035,136; Aug. 13; Gaz. vol. 181; p. 274.
Arnold, Nelson B., New York, N. Y. Concrete binder and preservative. No. 1,047,481; Dec. 17; Gaz. vol. 185; p. 656.
Arnold, Oliver H., Wilmington, N. C. Hair-fastener. No. 1,016,466; Feb. 6; Sp. p. 527; Gaz. vol. 175; p. 81.
Arnold, Oscar, Neustadt, Coburg, Germany. Phonograph. No. 1,036,413; Aug. 20; Gaz. vol. 181; p. 754.
Arnold, Ralph R., Cripple Creek, Colo. Acetylene-candle. No. 1,043,039; Oct. 29; Gaz. vol. 183; p. 1272.
Arnold, Rex E., and C. P. Hockett, Kouts, Ind. Resilient wheel. No. 1,021,440; Mar. 26; Sp. p. 5192; Gaz. vol. 176; p. 939.
Arnold, Samuel J., Dubuque, Iowa. Hand-press. No. 1,019,293; Mar. 5; Sp. p. 641; Gaz. vol. 176; p. 100.
Arnold, Samuel O., Peebles, Ohio. Sled attachment. No. 1,047,141; Dec. 17; Gaz. vol. 185; p. 533.
Arnold, Satterlee T., assignor to The Standard Sewing Machine Company, Cleveland, Ohio. Sewing-machine. No. 1,046,717; Dec. 10; Gaz. vol. 185; p. 361.
Arnold-Wagner Electric Co. (See Wagner, Joseph F., assignor.)
Arnold, William, New York, N. Y. Vehicle-wheel. No. 1,037,847; Sept. 10; Gaz. vol. 182; p. 256.
Arnold, William B. (See Dunn, George F., assignor.)
Arnold, William B., Eaton Rapids, Mich. Tongue for shoes or the like. No. 1,019,877; Mar. 12; Sp. p. 1852; Gaz. vol. 176; p. 325.
Arnott, Patrick R., Westcliff-on-Sea, England. Carrying and lowering of boats to the water. No. 1,047,877; Dec. 17; Gaz. vol. 185; p. 794.
Arnoux, René. (See Chauvin and Arnoux.)
Arnoux, René, Paris, France. Aeroplane. No. 1,025,941; May 7; Sp. p. 1858; Gaz. vol. 178; p. 286.
Arnt, Louis, Chicago, Ill. Rod-holder. No. 1,027,026; May 21; Sp. p. 4295; Gaz. vol. 178; p. 731.
Arnzen, Frank A., *et al.* (See Davis, Claude B., assignor.)
Arons, Leo, and M. Fuss, Berlin, Germany, assignors to General Electric Company. Series lighting system. No. 1,023,289; Apr. 16; Sp. p. 3307; Gaz. vol. 177; p. 591.
Aronsen, Halfdan, Oakland, Cal. Device for raising sunken submarine vessels. No. 1,030,701; June 25; Sp. p. 5949; Gaz. vol. 179; p. 1016.
Aronson, Otto, New York, N. Y. Cabinet. No. 1,033,977; July 30; Gaz. vol. 180; p. 1217.
Arquint, Hans, Arbon, Switzerland. Speed-recorder. No. 1,045,660; Nov. 26; Gaz. vol. 184; p. 1004.
Arragg, George M., Lawrence, Mass. Device for handling broken ends. No. 1,039,349; Sept. 24; Gaz. vol. 182; p. 823.
Arreagada, Everaldo M. (See Krohn and Arreagada.)
Arrow Electric Company, The. (See Hartwig, Herman T., assignor.)
Arrow Electric Company. (See Marshall, Norman, assignor.)
Arrow Electric Company, The. (See Nero, Arvid H., assignor.)
Arrow Electric Company, The. (See Peterson, Johann G., assignor.)
Arrow Electric Company, The. (See Rowntree, Frank L., assignor.)
Arsem, William C., Schenectady, N. Y., assignor to General Electric Company. Reduction of oxids. No. 1,023,290; Apr. 16; Sp. p. 3308; Gaz. vol. 177; p. 591.
Arsem, William C., Schenectady, N. Y., assignor to General Electric Company. Producing metal filaments. No. 1,034,949; Aug. 6; Gaz. vol. 181; p. 184.
Art Metal Construction Company. (See Bullock, Raymond G., assignor.)
Art Metal Construction Company. (See Sampson, Eric G., assignor.)
Art Screen Table Company, The. (See Horner, William C., assignor.)
Art Stove Company, The. (See Coda, Christopher F., assignor.)
Arthur D. Little Incorporated. (See Gallagher, Francis E., assignor.)
Arthur, John E., Lane, Ill. Hoof-trimmer. No. 1,043,189; Nov. 5; Gaz. vol. 184; p. 51.
Arthur, Richard S., Newark, N. J. Surgical instrument. No. 1,014,799; Jan. 16; Sp. p. 3806; Gaz. vol. 174; p. 647.
Arthur, Walter, Schenectady, N. Y., assignor to General Electric Company. Intumescent material and making the same. No. 1,041,565; Oct. 15; Gaz. vol. 183; p. 703.
Arthur, Winfield S., assignor of one-half to S. C. Keith, Woodstown, N. J. Compression-bib. No. 1,017,492; Feb. 13; Sp. p. 2790; Gaz. vol. 175; p. 471.
Artizan Brass Company. (See Desmond, John, assignor.)
Artista Piano Player Company. (See Bennett, Robert J., assignor.)
Artista Piano Player Company. (See Turney, Eugene T., assignor.)
Artmann, Carl, assignor to Chemische Fabriken & Asphaltwerke Aktien-Gesellschaft, Worms, Germany. Manufacture of asphalt blocks, slabs, and the like. No. 1,031,227; July 2; Gaz. vol. 180; p. 134.
Arundel, Clarence E., assignor of one-third to W. F. Roberts, Washington, D. C. Acetylene-gas-burner tip. No. 1,035,137; Aug. 13; Gaz. vol. 181; p. 275.
Arundel, Clarence E., assignor of one-twelfth to A. A. Wright, one-twelfth to R. L. Ray, and one-sixth to C. L. Parker, Washington, D. C. Soap-lather generating and applying device. No. 1,023,708; Apr. 16; Sp. p. 4115; Gaz. vol. 177; p. 722.
Arvis Motor Co. (See Smith, Reinold V., assignor.)
Asbeck, Julius, Krantscheid-Westerwald, Germany. Obtaining refined lead. No. 1,025,956; May 14; Sp. p. 1899; Gaz. vol. 178; p. 327.
Asbury, Dorsey F. (See Smith and Asbury.)
Ascue, Elbert. (See Scheble and Ascue.)
Ash, Elven, Berkley, Va. Switch structure. No. 1,027,792; May 28; Sp. p. 5888; Gaz. vol. 178; p. 1024.
Ash, George. (See Rogers, Marshall C., assignor.)
Ash, Marsellus T., Chicago, Ill. Display apparatus. No. 1,018,403; Feb. 27; Sp. p. 4801; Gaz. vol. 175; p. 851.
Ash, William D., assignor of one-half to J. A. Herndon, Kirbyville, Tex. Keying device for cutter-heads. No. 1,046,937; Dec. 10; Gaz. vol. 185; p. 435.
Ashbaugh, Mifflin L. (See Leveen and Ashbaugh.)
Ashby, Theodore J., Perryville, Ark., assignor of one-fourth to J. E. Bell, Gordon, Ga. Engine. No. 1,026,424; May 14; Sp. p. 2944; Gaz. vol. 178; p. 488.
Ashcraft, William, Grandin, Mo. Trolley-retriever. No. 1,016,467; Feb. 6; Sp. p. 528; Gaz. vol. 175; p. 81.
Ashcroft, Edgar A., London, England. Production of cyanamids and cyanids of the alkali metals. No. 1,041,566; Oct. 15; Gaz. vol. 183; p. 703.
Ashcroft Manufacturing Company, The. (See Blanchard and Crocker, assignors.)
Ashcroft Manufacturing Company, The. (See Blanchard, Crocker, and Eddy, assignors.)
Asheim, Leonard, Bridgeport, Conn. Ink-bottle stand and holder. No. 1,026,780; May 21; Sp. p. 3724; Gaz. vol. 178; p. 645.

Alphabetical list of patentees—Continued.

Asher, Herman, New York, N. Y. Combined eyeglass-case and screw-driver. No. 1,041,402; Oct. 15; Gaz. vol. 183; p. 650.
Asher, Louis. (See Horvitz, Aaron, assignor.)
Ashford, Alfred J., Kinston, N. C. Tank-siphon. No. 1,013,719; Jan. 2; Sp. p. 1389; Gaz. vol. 174; p. 218.
Ashford, Alfred J., Kinston, N. C. Closet-cistern-supply valve. No. 1,013,720; Jan. 2; Sp. p. 1390; Gaz. vol. 174; p. 218.
Ashford, John, and S. Leggett, Amritsar, India. Pneumatic weir-shutter. No. 1,040,112; Oct. 1; Gaz. vol. 183; p. 148.
Ashland Manufacturing Company, The. (See Willour, Le Roy, assignor.)
Ashley, Frank M., New York, N. Y. Fountain-pen. No. 1,021,398; Mar. 26; Sp. p. 5104; Gaz. vol. 176; p. 924.
Ashley, Frank M., New York, N. Y. Fountain-pen. No. 1,022,718; Apr. 9; Sp. p. 2080; Gaz. vol. 177; p. 357.
Ashley, Frank M., New York, N. Y. Vehicle-tire. No. 1,035,138; Aug. 13; Gaz. vol. 181; p. 275.
Ashley, Frank M., New York, N. Y. Liquid-dispensing apparatus. No. 1,035,516; Aug. 13; Gaz. vol. 181; p. 408.
Ashley, Frank M., New York, N. Y. Gas-burner. No. 1,035,517; Aug. 13; Gaz. vol. 181; p. 409.
Ashley, Frank M., New York, N. Y. Inkstand. No. 1,040,605; Oct. 8; Gaz. vol. 183; p. 348.
Ashley, Frank M., New York, N. Y. Inkstand. No. 1,043,287; Nov. 5; Gaz. vol. 184; p. 85.
Ashley, Frank M., New York, N. Y. Inkstand. No. 1,043,288; Nov. 5; Gaz. vol. 184; p. 86.
Ashley-Reavis, James A., Denver, Colo. Weighing means or scale for wagons. No. 1,022,811; Apr. 9; Sp. p. 2270; Gaz. vol. 177; p. 388.
Ashlock, Henry H., Kansas City, Mo. Aerodrome. No. 1,014,031; Jan. 9; Sp. p. 2108; Gaz. vol. 174; p. 354.
Ashmun, Lewis B. (See Caldwell, James R., assignor.)
Ashton, Alfred, Plymouth, Pa. Boiler-tube cleaner. No. 1,033,653; July 23; Gaz. vol. 180; p. 1081.
Ashton, Frank R., Rochester, N. Y. Shaft-oiler. No. 1,049,191; Dec. 31; Gaz. vol. 185; p. 1308.
Ashton, James, Kilnahue Rectory, Gory, Ireland. Detachable and divisible rim for motor-cars and other vehicles. No. 1,041,567; Oct. 15; Gaz. vol. 183; p. 703.
Ashton, John, Hereford, England. Appliance for cutting cheese, butter, soap, lard, and other analogous substances. No. 1,027,972; May 28; Sp. p. 6332; Gaz. vol. 178; p. 1087.
Ashton, John H., Providence, R. I. Sanitary drinking-fountain. No. 1,038,817; Sept. 17; Gaz. vol. 182; p. 625.
Ashton, Miller C., Doty, Wash. Cross-head for logging pulley-blocks. No. 1,025,668; May 7; Sp. p. 1251; Gaz. vol. 178; p. 193.
Ashton, Orrell, Swampscott, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for assembling parts of boots and shoes. No. 1,014,631; Jan. 16; Sp. p. 3433; Gaz. vol. 174; p. 591.
Ashton, Orrell, Swampscott, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Pulling-over machine. No. 1,030,763; June 25; Sp. p. 6113; Gaz. vol. 179; p. 1039.
Ashton, Orrell, Swampscott, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Gripper mechanism. No. 1,030,838; June 25; Sp. p. 6409; Gaz. vol. 179; p. 1067.
Ashton, Orrell, Swampscott, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for use in the manufacture of boots and shoes. No. 1,032,356; July 9; Gaz. vol. 180; p. 562.
Ashton, Orrell, Swampscott, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Holder for facilitating the application of oil to shoes. No. 1,035,406; Aug. 13; Gaz. vol. 181; p. 371.
Ashton, Orrell, Swampscott, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Shoe-ironing device. No. 1,048,637; Dec. 31; Gaz. vol. 185; p. 1117.
Ashton, Orrell, Swampscott, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Rotary shoe-beating machine. No. 1,048,638; Dec. 31; Gaz. vol. 185; p. 1117.
Ashton, Orrell, Lawrence, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Shoe-shaping machine. No. 1,017,726; Feb. 20; Sp. p. 3255; Gaz. vol. 175; p. 583.
Ashton, Orrell, Lawrence, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Gripper. No. 1,019,012; Mar. 5; Sp. p. 1; Gaz. vol. 176; p. 3.
Ashton, Orrell, Lawrence, assignor to United Shoe Machinery Company, Boston, Mass. Quilting-machine. No. 1,019,118; Mar. 5; Sp. p. 240; Gaz. vol. 176; p. 38.
Ashton, Orrell, Lawrence, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Shoe-shaping machine. No. 1,019,878; Mar. 12; Sp. p. 1853; Gaz. vol. 176; p. 325.
Ashton, Orrell, Lawrence, assignor to United Shoe Machinery Company, Boston, Mass. Pegging-machine. No. 1,021,815; Apr. 2; Sp. p. 121; Gaz. vol. 177; p. 24.
Ashton, Orrell, Lawrence, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for assembling parts of boots and shoes. No. 1,023,794; Apr. 23; Sp. p. 4275; Gaz. vol. 177; p. 778.
Ashton, Orrell, Lawrence, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Stop mechanism. No. 1,026,067; May 14; Sp. p. 2165; Gaz. vol. 178; p. 365.
Ashton, Orrell, Lawrence, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Assembling-machine. No. 1,026,940; May 21; Sp. p. 4110; Gaz. vol. 178; p. 701.
Ashton, Orrell, Lawrence, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Trimming-machine. No. 1,030,375; June 25; Sp. p. 5047; Gaz. vol. 179; p. 900.
Ashton, Orrell, Lawrence, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for use in the manufacture of boots and shoes. No. 1,030,762; June 25; Sp. p. 6110; Gaz. vol. 179; p. 1038.
Ashton, Orrell, Lawrence, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Shoe-beating machine. No. 1,030,837; June 25; Sp. p. 6403; Gaz. vol. 179; p. 1067.
Ashton, Orrell, Lawrence, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Pounding-up machine. No. 1,048,788; Dec. 31; Gaz. vol. 185; p. 1171.
Ashton, Orrell, Lawrence, Mass., assignor, by mesne assignments, to United Shoe Machinery Company. Pegging-machine. No. 1,048,789; Dec. 31; Gaz. vol. 185; p. 1171.
Ashton, Roy S., Washington, D. C. Means for teaching shorthand. No. 1,027,514; May 28; Sp. p. 5330; Gaz. vol. 178; p. 933.
Ashworth, Fred, Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Thread-waxing device. No. 1,015,772; Jan. 30; Sp. p. 5908; Gaz. vol. 174; p. 1034.
Ashworth, Fred N., Somerville, Mass. Garment. No. 1,016,538; Feb. 6; Sp. p. 715; Gaz. vol. 175; p. 106.
Ashworth, James S., Cuyahoga Falls, Ohio. Brake-shoe adjuster. No. 1,030,150; June 18; Sp. p. 4519; Gaz. vol. 179; p. 781.
Ashworth, Jim L., Thompson Station, Tenn. Wire-stretcher. No. 1,031,508; July 2; Gaz. vol. 180; p. 229.
Ashworth, John W., Peoria, Ill. Elevating attachment. No. 1,023,981; Apr. 23; Sp. p. 4745; Gaz. vol. 177; p. 842.
Ashworth, John W., Philadelphia, Pa. Portable elevator. No. 1,048,124; Dec. 24; Gaz. vol. 185; p. 906.
Askew Saddlery Company. (See Smith, Dearcy A., assignor.)
Askin, Harry, Chicago, Ill. Umbrella for theatrical purposes. No. 1,020,071; Mar. 12; Sp. p. 2264; Gaz. vol. 176; p. 389.
Aslakson, Baxter M., Salem, Ohio. Gas-engine. No. 1,034,673; Aug. 6; Gaz. vol. 181; p. 90.
Aslakson, Baxter M., Salem, Ohio. Milking-machine. No. 1,048,481; Dec. 31; Gaz. vol. 185; p. 1063.
Asland, Knute S., Chicago, Ill. Music-leaf turner and holder. No. 1,038,818; Sept. 17; Gaz. vol. 182; p. 625.
Asmus, William G., Cleveland, Ohio. Thermostatic alarm system. No. 1,015,118; Jan. 16; Sp. p. 4499; Gaz. vol. 174; p. 757.
Asmus, William G., Cleveland, Ohio. Thermostatic circuit-closer. No. 1,015,119; Jan. 16; Sp. p. 4501; Gaz. vol. 174; p. 758.
Asmussen, Samuel J. O., Ilford, England. Rotary printing-machine. No. 1,018,151; Feb. 20; Sp. p. 4276; Gaz. vol. 175; p. 734.
Aspdem, James. (See Fowler, Benjamin F., assignor.)
Aspegrén, William H., Quincy, Mass. Door-check. No. 1,028,850; June 11; Sp. p. 1687; Gaz. vol. 179; p. 295.
Aspegren, William H., Quincy, Mass. Door-check. No. 1,035,298; Aug. 13; Gaz. vol. 181; p. 332.
Aspinwall, John, *et al.* (See Schwertner, Joseph, assignor.) (Reissue.)
Aspinwall, Lewis A., assignor to Aspinwall Manufacturing Co., Jackson, Mich. Liquid-sprayer. No. 1,018,804; Feb. 27; Sp. p. 5724; Gaz. vol. 175; p. 988.
Aspinwall Manufacturing Co. (See Aspinwall, Lewis A., assignor.)
Aspinwall, Robert S., assignor to The Virden Manufacturing Company, Cleveland, Ohio. Cuspidor. No. 1,031,103; July 2; Gaz. vol. 180; p. 90.
Asplund, Charles F., assignor of one-half to R. J. Owens, Minneapolis, Minn. Grain-separator. No. 1,013,266; Jan. 2; Sp. p. 383; Gaz. vol. 174; p. 61.
Assheton, William, Ilchester, assignor of one-half to C. J. Carroll, Baltimore, Md. Manifolding sales-book. No. 1,048,383; Dec. 24; Gaz. vol. 185; p. 992.
Associated Fire Alarms Limited, The. (See McNeil, Alfred H., assignor.)
Aster, Frederick J., Rock Island, Ill., and A. W. Malone, Davenport, Iowa. Stretcher for cables, wires, &c. No. 1,048,928; Dec. 31; Gaz. vol. 185; p. 1219.
Astfalck, Wiland, Tegel, near Berlin, Germany. Hydraulic press. No. 1,020,176; Mar. 12; Sp. p. 2492; Gaz. vol. 176; p. 425.

Alphabetical list of patentees—Continued.

Aston, Taggart, San Francisco, Cal. Curbing for railway-tracks running along or across streets or roads. No. 1,037,716; Sept. 3; Gaz. vol. 182; p. 181.
Astor Trust Company, trustee. (See Lundin, Andreas P., assignor.)
Astrom, Carl P., East Orange, N. J., assignor to M. H. Treadwell Company. Dumping-car. No. 1,037,848; Sept. 10; Gaz. vol. 182; p. 256.
Astruck, John H., New York, N. Y. Smoker's stand. No. 1,043,386; Nov. 5; Gaz. vol. 184; p. 122.
Astruck, John H., New York, N. Y. Knockdown stand. No. 1,043,387; Nov. 5; Gaz. vol. 184; p. 122.
Astruck, John H., New York, N. Y. Smoker's utensil. No. 1,043,388; Nov. 5; Gaz. vol. 184; p. 123.
Astrup, William J. O., Cleveland, Ohio. Gearing. No. 1,030,272; June 25; Sp. p. 4805; Gaz. vol. 179; p. 862.
Astrup, William J. O., Cleveland, Ohio. Awning-gearing. No. 1,048,790; Dec. 31; Gaz. vol. 185; p. 1172.
Atchison, Winfield S., Washington, D. C. Thermometer-holder. No. 1,034,380; July 30; Gaz. vol. 180; p. 1358.
Atexicafe S. A. (See Pury, Hermann de, assignor.)
Atha, Louis M., Newark, and E. H. Mumford, Plainfield, N. J. Jolt ramming-machine. No. 1,040,989; Oct. 15; Gaz. vol. 183; p. 511.
Athay, David, *et al.* (See Farnes, John L., assignor.)
Athearn, William E., Brooklyn, N. Y., assignor to The Westerm Union Telegraph Company. Telegraph system. No. 1,048,639; Dec. 31; Gaz. vol. 185; p. 1118.
Atherton, Giles, Stockport, England. Machine for blocking or shaping hats. No. 1,044,002; Nov. 12; Gaz. vol. 184; p. 368.
Atherton, Herbert, Wimbledon Park, England. Advertising-machine. No. 1,024,242; Apr. 23; Sp. p. 5339; Gaz. vol. 177; p. 935.
Athion-Gesellschaft mit beschränkter Haftung. (See Knoevenagel, Emil, assignor.)
Athol Machine Company. (See French and Bates, assignors.)
Atkins, Edward G., assignor to Atkins Manufacturing Company, Minneapolis, Minn. Carbureter or mixer for internal-combustion engines. No. 1,036,536; Aug. 27; Gaz. vol. 181; p. 828.
Atkins, J. W., *et al.* (See Quinn, William E., assignor.)
Atkins Manufacturing Company. (See Atkins, Edward C., assignor.)
Atkins, William, Auburn, N. Y. Dump-wagon. No. 1,025,359; May 7; Sp. p. 563; Gaz. vol. 178; p. 88.
Atkinson, Asher, New Brunswick, N. J. Reinforcement. No. 1,024,663; Apr. 30; Sp. p. 6307; Gaz. vol. 177; p. 1112.
Atkinson, Christopher, Columbia, S. C. Latch. No. 1,013,104; Jan. 2; Sp. p. 16; Gaz. vol. 174; p. 5.
Atkinson, Claude W., Great Missenden, England. Piano-playing mechanism and the like. No. 1,043,792; Nov. 12; Gaz. vol. 184; p. 293.
Atkinson, Claude W., Great Missenden, England. Piano-playing mechanism and the like. No. 1,046,369; Dec. 3; Gaz. vol. 185; p. 199.
Atkinson, Cyril J., Watertown, Wis. Vaporizer for gas-producers. No. 1,018,152; Feb. 20; Sp. p. 4277; Gaz. vol. 175; p. 734.
Atkinson, Cyril J., Milwaukee, Wis. Gas-producer. No. 1,028,524; June 4; Sp. p. 1008; Gaz. vol. 179; p. 153.
Atkinson, Frederick M., Chicago, Ill. Concentrator. No. 1,049,035; Dec. 31; Gaz. vol. 185; p. 1256.
Atkinson, George K., Cincinnati, Ohio. Lathe screw-machine. No. 1,029,485; June 11; Sp. p. 3074; Gaz. vol. 179; p. 515.
Atkinson, Harry E., Traverse City, Mich. Valve. No. 1,029,097; June 11; Sp. p. 2236; Gaz. vol. 179; p. 382.
Atkinson, Henry, South Norwood, England. Chain feed mechanism for use with saw-benches and other cutting machinery. No. 1,033,295; July 23; Gaz. vol. 180; p. 963.
Atkinson, Herbert S., East Orange, N. J., assignor to The Hayward Company, New York, N. Y. Safety-skip. No. 1,031,412; July 2; Gaz. vol. 180; p. 198.
Atkinson, James A. (See Robertson and Atkinson.)
Atkinson, John C. (See Lowe and Atkinson.)
Atkinson, Robert E. (See Taylor, Atkinson, and Nesbit.)
Atkinson, Sherwood. (See Hall, Robert B., assignor.)
Atkinson, William R., assignor of one-half to J. D. Kilgore, Homestead, Pa. Toy pistol. No. 1,014,739; Jan. 16; Sp. p. 3674; Gaz. vol. 174; p. 627.
Atkinson, William W., assignor of one-half to D. A. Haywood, Philadelphia, Pa. Facing and backing for dental bridge, crown, and plate work, &c. No. 1,032,103; July 9; Gaz. vol. 180; p. 474.
Atlanta Metal Bed Company. (See Plante, Alfred H., assignor.)
Atlanta Utility Works. (See Nash, Walter D., assignor.)
Atlantic National Bank. (See Cummings, Henry H., assignor.)
Atlantic National Bank. (See Mitchell, Frank, assignor.)
Atlantic National Bank. (See Stebbins and Adams, assignors.)
Atlantic Punctureless Tire Co. (See Kleinatland, August, assignor.)
Atlas Acetylene Lighting Company. (See Crowner, James M., assignor.)
Atlas Cement Pipe and Machinery Co. (See Tunison, Arthur C., assignor.)
Atlas Engine Works. (See McCarty, Norman, assignor.)
Atlas Tack Company. (See Luscomb, Frederick W., assignor.)
Atlas Tack Company. (See Raiche, Andrew, assignor.)
Atmar, Joseph Y., Teague, Tex. Seed-planter. No. 1,021,652; Mar. 26; Sp. p. 5612; Gaz. vol. 176; p. 1009.
Attaway, Elisha, Morrow, La. Mathematical computer and register. No. 1,016,245; Feb. 6; Sp. p. 1; Gaz. vol. 175; p. 3.
Atteberry, Henry E., Victoria, Tex. Downdraft-stove. No. 1,044,724; Nov. 19; Gaz. vol. 184; p. 646.
Atterbury, Grosvenor, New York, N. Y. Collapsible core for molding or casting. No. 1,042,749; Oct. 29; Gaz. vol. 183; p. 1172.
Atterbury, Grosvenor, New York, N. Y. Apparatus for molding or casting. No. 1,047,142; Dec. 17; Gaz. vol. 185; p. 533.
Atterbury, James H., Litchfield, Ill. Thermostatic draft-regulator. No. 1,014,032; Jan. 9; Sp. p. 2111; Gaz. vol. 174; p. 354.
Attwood, Frederick G., London, England. Beacon-light. No. 1,015,532; Jan. 23; Sp. p. 5386; Gaz. vol. 174; p. 923.
Atwater, John S., Everett, assignor to Howard Dustless Duster Co., Boston, Mass. Duster-cover for brooms and brushes. No. 1,036,775; Aug. 27; Gaz. vol. 181; p. 908.
Atwood, Arthur F., Attleboro, Mass. Attachment for bottling-machines. No. 1,039,630; Sept. 24; Gaz. vol. 182; p. 921.
Atwood, Charles H., *et al.* (See Beebe, Frank, assignor.)
Atwood, Fred B., *et al.* (See Long, Sidney L., assignor.)
Atwood, George D., New York, N. Y. Elastic-fluid turbine. No. 1,024,920; Apr. 30; Sp. p. 6845; Gaz. vol. 177; p. 1203.
Atwood, James F., Claremont, N. H. Fastening device for shoes and the like. No. 1,015,928; Jan. 30; Sp. p. 6234; Gaz. vol. 174; p. 1087.
Atwood, James F., Claremont, N. H. Fastening device for shoes and the like. (Reissue.) No. 13,392; Apr. 2; Sp. p. 1333; Gaz. vol. 177; p. 216.
Atwood, Leonard, Philadelphia, Pa., assignor to Tubular Construction Company. Tubular structure and making the same. No. 1,015,120; Jan. 16; Sp. p. 4503; Gaz. vol. 174; p. 758.
Atwood, Leonard, Farmington Falls, Me., assignor to Otis Elevator Company, Jersey City, N. J. Hydropneumatic plunger-elevator. No. 1,032,040; July 9; Gaz. vol. 180; p. 454.
Atwood, Leonard, Farmington Falls, Me., assignor to Otis Elevator Company, Jersey City, N. J. Compensating counterweight. No. 1,047,143; Dec. 17; Gaz. vol. 185; p. 534.
Atwood Machine Co., The. (See Baldwin, William T., assignor.)
Atwood, Ray S., Plymouth, Pa. Winding-spindle. No. 1,038,263; Sept. 10; Gaz. vol. 182; p. 397.
Atwood, Wallace W., Chicago, Ill. Siderial sphere. No. 1,019,405; Mar. 5; Sp. p. 941; Gaz. vol. 176; p. 137.
Atwood, William S., assignor to Canadian Car & Foundry Company, Limited, Montreal, Quebec, Canada. Brake-beam. No. 1,036,055; Aug. 20; Gaz. vol. 181; p. 627.
Atwood, Winthrop F., Whitman, Mass. Packing-case. No. 1,047,144; Dec. 17; Gaz. vol. 185; p. 534.
Au Buchon, Peter P., French Village, Mo. Drilling-machine. No. 1,045,246; Nov. 26; Gaz. vol. 184; p. 856.
Aubert, Albert M. and J. M., Billancourt, France. Device for controlling from a distance the passage of gas. No. 1,028,657; June 4; Sp. p. 1282; Gaz. vol. 179; p. 197.
Aubert, Jean M. (See Aubert, Albert M. and J. M.)
Auble, James H. and J. L., assignors of one-third to H. A. Barrett, Cincinnati, Ohio. Lawn-mower. No. 1,039,475; Sept. 24; Gaz. vol. 182; p. 866.
Auble, James L. (See Auble, James H. and J. L.)
Auburn Wagon Company, The. (See Phelps, Homer L., assignor.)
Auchu, Henry, Emporium, Pa. Machine for making paper cartridges or shells. No. 1,018,473; Feb. 27; Sp. p. 4948; Gaz. vol. 175; p. 875.
Aud, Thomas E., Herndon, Va. Life-saving device. No. 1,046,424; Dec. 10; Gaz. vol. 185; p. 255.
Audet, Armel L. (See Rouilliard, Victor A., assignor.)
Audley, Francis H., New York, N. Y. Pistol-holster carrier. No. 1,037,717; Sept. 3; Gaz. vol. 182; p. 181.
Aufinson, Knut, Pelly, Saskatchewan, Canada. Fastener. No. 1,013,469; Jan. 2; Sp. p. 829; Gaz. vol. 174; p. 133.
Augenbraun, Peter F., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Pin-tumbler lock. No. 1,020,874; Mar. 19; Sp. p. 3983; Gaz. vol. 176; p. 694.
Augenbraun, Peter F., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Indicator for locks. No. 1,022,221; Apr. 2; Sp. p. 989; Gaz. vol. 177; p. 159.
Augenbraun, Peter F., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Strike-plate for door-locks. No. 1,022,222; Apr. 2; Sp. p. 991; Gaz. vol. 177; p. 160.

Alphabetical list of patentees—Continued.

Augenbraun, Peter F., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Spring-lock. No. 1,035,073; Aug. 6; Gaz. vol. 181; p. 223.
Augenbraun, Peter F., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Brake-lever lock. No. 1,040,844; Oct. 8; Gaz. vol. 183; p. 428.
Augenbraun, Peter F., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Pin-tumbler lock. No. 1,047,482; Dec. 17; Gaz. vol. 185; p. 656.
Augenbraun, Peter F., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Pin-tumbler lock. No. 1,047,483; Dec. 17; Gaz. vol. 185; p. 657.
Auger, Henry N., Worcester, Mass. Carpenter's tool. No. 1,015,773; Jan. 30; Sp. p. 5910; Gaz. vol. 174; p. 1034.
Auger, Philibert, Easthampton, Mass. Amusement-vehicle. No. 1,014,279; Jan. 9; Sp. p. 2645; Gaz. vol. 174; p. 440.
Aughinbaugh, Sidney M., Chambersburg, Pa. Fastening device for film-reels. No. 1,048,270; Dec. 24; Gaz. vol. 185; p. 953.
August Brauer Steam Rotary Motor Company. (See Brauer, August, assignor.)
Augustine, Charles P., Hamilton, Mont. Air-compressor. No. 1,035,139; Aug. 13; Gaz. vol. 181; p. 275.
Aukerman, George W. (See Freeland, Charles E., assignor.)
Auld, Harry D., The Dalles, Oreg. Fruit-jar opener. No. 1,022,574; Apr. 9; Sp. p. 1735; Gaz. vol. 177; p. 306.
Auld, John, Chicago, Ill. Eraser mechanism. No. 1,034,054; July 30; Gaz. vol. 180; p. 1245.
Auld, John, and J. Graham, Glasgow, Scotland. Safety-valve. No. 1,014,435; Jan. 9; Sp. p. 2986; Gaz. vol. 174; p. 495.
Aull, Jerome J. (See Ritter and Aull.)
Aull, Jerome J., assignor to The Lunkenheimer Company, Cincinnati, Ohio. Exhaust-pressure regulator. No. 1,046,718; Dec. 10; Gaz. vol. 185; p. 361.
Aulsebrook, Thomas R., Louisville, Ky. Liquid-fuel burner. No. 1,038,712; Sept. 17; Gaz. vol. 182; p. 587.
Ault, Harry, and C. Switalski, Portsmouth, Ohio. Automatic weighing-scoop. No. 1,016,246; Feb. 6; Sp. p. 3; Gaz. vol. 175; p. 3.
Ault, Playfair G., Birmingham, Ala. Pump-operating mechanism. No. 1,021,296; Mar. 26; Sp. p. 4862; Gaz. vol. 176; p. 888.
Aultman & Taylor Machinery Company, The. (See Seaman, George W., assignor.)
Auman, Daniel A. and G. C., assignors of one-third to G. M. Stern, Reading, Pa. Railway-rail. No. 1,020,592; Mar. 19; Sp. p. 3370; Gaz. vol. 176; p. 599.
Auman, George C. (See Auman, Daniel A. and G. C.)
Aumann, Louis A., Chicopee, Mass. Slasher. No. 1,014,361; Jan. 9; Sp. p. 2844; Gaz. vol. 174; p. 470.
Auperl, Harry, New York, N. Y. Tire-armor. No. 1,036,776; Aug. 27; Gaz. vol. 181; p. 908.
Aurora Automatic Machinery Company. (See Levedahl, Axel, assignor.)
Aurora Automatic Machinery Company. (See Norling, Reinhold A., assignor.)
Aurora Automatic Machinery Company, The. (See Ottaway, William, assignor.)
Aurora Metal Company. (See Christenson, Anton, assignor.)
Ausburn, George F., Vera, Tex. Rail-clamp. No. 1,029,964; June 18; Sp. p. 4143; Gaz. vol. 179; p. 717.
Auscher, Paul, and C. Dehainault, Paris, France; said Dehainault assignor to said Auscher. Manifold-book No. 1,025,113; Apr. 30; Sp. p. 7229; Gaz. vol. 177; p. 1266.
Austin Adding Machine Corporation. (See Austin, Sydney B., assignor.)
Austin Adding Machine Corporation of Delaware. (See Austin, Sydney B., assignor.)
Austin, Albert L., Lakewood, Ohio. Steam-generator. No. 1,027,398; May 28; Sp. p. 5102; Gaz. vol. 178; p. 895.
Austin, Alfred T., Cotteridge, England. Brake of cycles and the like. No. 1,034,674; Aug. 6; Gaz. vol. 181; p. 90.
Austin, Archibald J., Los Angeles, Cal. Aerial illuminating mechanism. No. 1,039,476; Sept. 24; Gaz. vol. 182; p. 867.
Austin, Charles R., assignor to Southern California Manufacturing Company, Los Angeles, Cal. Impulse-transmitter. No. 1,035,056; Aug. 20; Gaz. vol. 181; p. 627.
Austin, David R., Nevada, Mo. Metallic cross-tie. No. 1,040,113; Oct. 1; Gaz. vol. 183; p. 148.
Austin, De Roy, Omaha, Nebr. Insole for shoes. No. 1,021,441; Mar. 26; Sp. p. 5194; Gaz. vol. 176; p. 939.
Austin, De Roy, Omaha, Nebr. Shoe. No. 1,022,458; Apr. 9; Sp. p. 1498; Gaz. vol. 177; p. 268.
Austin, De Roy, Omaha, Nebr. Legging. No. 1,037,407; Sept. 3; Gaz. vol. 182; p. 77.
Austin, Frederick C. (See Bathrick, Charles E., assignor.)
Austin, Frederick C. (See Bentson, Hans J., assignor.)
Austin, Frederick C. (See Bunnell, Morton G., assignor.)
Austin, Frederick C., Chicago, Ill. Table-piece and fountain. No. 1,023,354; Apr. 16; Sp. p. 3425; Gaz. vol. 177; p. 612.
Austin, George E. (See Hunter, Alfred J., assignor.)
Austin, Henry K., Reading, Mass. Tire-inflating pump. No. 1,045,495; Nov. 26; Gaz. vol. 184; p. 943.
Austin, Herbert, Barnt Green, near Birmingham, England. Friction-clutch having removable wearing-surfaces. No. 1,020,737; Mar. 19; Sp. p. 3699; Gaz. vol. 176; p. 649.
Austin, Herbert, Barnt Green, near Birmingham, England. Spring for vehicles. No. 1,025,233; May 7; Sp. p. 270; Gaz. vol. 178; p. 45.
Austin, John G., Haslemere, England. Device for guarding mortising, drilling, and the like machinery. No. 1,036,414; Aug. 20; Gaz. vol. 181; p. 755.
Austin Manufacturing Company. (See Black and McKee, assignors.)
Austin Manufacturing Company, The. (See Mustin, Herbert S., assignor.)
Austin Manufacturing and Supply Company, The. (See Austin, Robert M., assignor.)
Austin Mfg. Company. (See De Wind, Norman, assignor.)
Austin, Robert M., assignor to The Austin Manufacturing and Supply Company, Hartford, Conn. Heating appliance. No. 1,013,267; Jan. 2; Sp. p. 386; Gaz. vol. 174; p. 62.
Austin, Septimeous L., and H. Coles, Blissville, Ark. Bale-tie buckle. No. 1,017,366; Feb. 13; Sp. p. 2509; Gaz. vol. 175; p. 425.
Austin, Sydney B., Pikesville, Md., assignor, by mesne assignments, to Austin Adding Machine Corporation of Delaware. Recording and adding machine. No. 1,034,055; July 30; Gaz. vol. 180; p. 1246.
Austin, Sydney B., Pikesville, Md., assignor, by mesne assignments, to Austin Adding Machine Corporation. Adding, subtracting, and multiplying machine. No. 1,034,565; Aug. 6; Gaz. vol. 181; p. 55.
Austin, William A., Fort Meade, S. D. Garbage-can cover. No. 1,036,777; Aug. 27; Gaz. vol. 181; p. 908.
Austin, William L., assignor, by mesne assignments, to The Baldwin Locomotive Works, Philadelphia, Pa. Car-truck. No. 1,022,922; Apr. 9; Sp. p. 2499; Gaz. vol. 177; p. 426.
Austin, William P., assignor to V. L. Maury, Brooklyn, N. Y. Water-heater. No. 1,048,271; Dec. 24; Gaz. vol. 185; p. 953.
Auter, Abram T., Denver, Colo. Weed-extracting tool. No. 1,025,360; May 7; Sp. p. 566; Gaz. vol. 178; p. 88.
Auth, George H. (See Auth, John A., assignor.)
Auth, John A., Colonial, assignor of one-half to G. H. Auth, Pittsburgh, Pa. Welding soft-metal to hard-metal bodies. No. 1,040,606; Oct. 8; Gaz. vol. 183; p. 348.
Auth, Joseph, assignor of one-half to E. Lushbaugh, Covington, Ky. Dumping-wagon. No. 1,028,525; June 4; Sp. p. 1009; Gaz. vol. 179; p. 154.
Authier, Edward C. (See Ottenheimer and Authier.)
Auto Air Cushion Wheel Company. (See Langton and Kellerman, assignors.)
Auto-Compressed-Air Wheel Company. (See Gruss, Lucien R., assignor.)
Auto Falcon & Waite Die Press Company. (See Waite, Fred, assignor.)
Auto Life Saving Fender Co. (See Hutchings, Frederick E., assignor.)
Auto Novelty Company. (See MacFarland, Allison M., assignor.)
Auto Parts Manufacturing Company. (See Sönnichsen, Andreas M., assignor.)
Auto Pneumatic Action Co. (See Danquard, Thomas, assignor.)
Auto Safety Crank Company, The. (See Beck, John L., assignor.)
Auto Sectional Leather Tire Company. (See Biener, Herman L., assignor.)
Auto-Spring Wheel Company, The. (See Swing, Alfred J., assignor.)
Auto Strop Company. (See Gaisman, Henry J., assignor.)
Auto Wind Shield Company. (See White, Herbert H., assignor.)
Autocall Company, The. (See Reynolds, Will S., assignor.)
Automatic Announcer Co. (See Nestor, John R., assignor.)
Automatic Arms Company, The. (See Lissak, Ormond M., assignor.)
Automatic Arms Company, The. (See McClean, Samuel N., assignor.)
Automatic Bag Stringer Company, The. (See Dalton, John T., assignor.)
Automatic Brush Machinery Company. (See Mumford, Joseph F., assignor.)
Automatic Chain Company, The. (See Coulter, James, assignor.)
Automatic Chain Company, The. (See Ryan, Michael B., assignor.)
Automatic Concrete Machinery Company. (See Nolan, Oliver, assignor.)
Automatic Directory Company, The. (See Wotherspoon, William A., assignor.)
Automatic Drill Chuck Corporation. (See Emrick, George W., assignor.)
Automatic Electric Block Signalling Company. (See Brousson, Robert P., assignor.)
Automatic Electric Company. (See Erickson, John, assignor.)
Automatic Enunciator Company. (See Comer, John J., assignor.)

Alphabetical list of patentees—Continued.

Automatic Fire Protection Company *et al.* (See Nolen, James G., assignor.)
Automatic Fire Protection Company. (See Shepherd, John E., assignor.)
Automatic Furnace Co. (See Johnston, Robert T., assignor.)
Automatic Furnace Company. (See Sheehan, Thomas C., assignor.)
Automatic Gas Pressure Lamp Lighter Company Limited, The. (See Sandiford, Thomas M., assignor.)
Automatic Machine Company. (See Northrup, Elmer C., assignor.)
Automatic Machine Sales Company. (See Melchert, Charles A., assignor.)
Automatic Machinery Company. (See Gaynor, Miller, and Remler, assignors.)
Automatic Movable Headlight Company, The. (See McElliott, Joseph P., assignor.)
Automatic Packing and Labeling Company. (See Deats, William, assignor.)
Automatic Packing & Labeling Company. (See Gwinn, George W., assignor.)
Automatic Packing & Labeling Company. (See Lee, George A., assignor.)
Automatic Platen Press Company. (See Beyer, Otto S., assignor.)
Automatic Platen Press Company. (See Morrison, Lewis E., assignor.)
Automatic Platen Press Company, The. (See Pribil, Alexis R., assignor.)
Automatic Press Feeder Company. (See Kirkman, Karl F., assignor.)
Automatic Refrigerating Company, The. (See Marshall, Albert T., assignor.)
Automatic Refrigerating Company. (See Owens, Michael F., assignor.)
Automatic Refrigerating Company. (See Owens and Marshall, assignors.)
Automatic Steering Company. (See Nelson, August T., assignor.)
Automatic Stemmer Company. (See Eckart, George F., assignor.)
Automatic Sprinkler Company of America. (See Hamilton, John R., assignor.)
Automatic Traction Implement Company, The. (See Helvig and Danielson, assignors.)
Automatic Typewriter Company, The. (See McCall, Thomas A., assignor.)
Automatic Vacuum Cleaner Company. (See Rakestraw, William H., assignor.)
Automatic Vacuum Pump Company. (See Sparks and Eddins, assignors.)
Automatic Vending Machines Company, The. (See Craig and Coffman, assignors.)
Automatic Weighing Machine Company. (See Tremaine, Edward G., assignor.)
Automatic Welding Company. (See Lloyd, Marshall B., assignor.)
Automatic Welding Machine Company, The. (See Graves, Charles L., assignor.)
Autoplate Company of America, The. (See Johnston, Robert T., assignor.)
Auton, Henry, Crewe, England. String-box. No. 1,033,296; July 23; Gaz. vol. 180; p. 964.
Autopiano Co. (See O'Connor, James, assignor.) (Reissue.)
Autoplate Company of America, The. (See Robertson, Charles J., assignor.)
Autoplate Company of America, The. (See Wood, Henry A. W., assignor.)
Avary, James C., Atlanta, Ga. Cultivator. No. 1,040,990; Oct. 15; Gaz. vol. 183; p. 511.
Averbeck, Henry J., Covington, Ky. Shaper. No. 1,039,079; Sept. 24; Gaz. vol. 182; p. 728.
Averill, Carrie B., Fort Wayne, Ind. Baby-carrier. No. 1,039,009; Sept. 17; Gaz. vol. 182; p. 689.
Avery, Charles D., Cheyenne, Wyo. Sanitary drinking-fountain. No. 1,039,880; Oct. 1; Gaz. vol. 183; p. 70.
Avery Company. (See Chubbock, Orlo P., assignor.)
Avery Company. (See Hansen, Frederico, assignor.)
Avery, Henry C., assignor of one-half to J. L. Perkins, Holyoke, Mass. Advertising device. No. 1,020,956; Mar. 26; Sp. p. 4155; Gaz. vol. 176; p. 773.
Avery, James E. (See Wormworth, Leslie, assignor.)
Avery, Kenneth N., Covina, Cal. Traction-wheel. No. 1,036,537; Aug. 27; Gaz. vol. 181; p. 829.
Avery, Nicholas F., assignor of one-half to C. Thomas, Brockton, Mass. Composition of matter. No. 1,015,468; Jan. 23; Sp. p. 5264; Gaz. vol. 174; p. 902.
Avery, Percy C., Milwaukee, Wis. Automobile-lamp. No. 1,027,306; May 21; Sp. p. 4905; Gaz. vol. 178; p. 825.
Avery, Samuel K., Goodland, Ind. Shaving-brush. No. 1,047,878; Dec. 17; Gaz. vol. 185; p. 795.
Avery Scale Company. (See Nield, Josiah, assignor.)
Avis, Braxton D., Jr., Clarksburg, W. Va. Process of and composition for coating aluminum or its alloys for soldering, &c. No. 1,029,522; June 11; Sp. p. 3144; Gaz. vol. 179; p. 527.
Avisus, Leopold, and A. Doll, New York, N. Y. Piano-action. No. 1,014,201; Jan. 9; Sp. p. 2454; Gaz. vol. 174; p. 412.
Avram, Moïs H., New York, N. Y. Powder-box. No. 1,040,991; Oct. 15; Gaz. vol. 183; p. 512.
Awkerman, Romeo C. (See O'Brien and Awkerman.)
Axe, Roy T., assignor to O. M. Edwards, Syracuse, N. Y. Winding-roller. No. 1,047,606; Dec. 17; Gaz. vol. 185; p. 701.
Axe, Roy T., assignor to O. M. Edwards, Syracuse, N. Y. Winding-roller. No. 1,049,036; Dec. 31; Gaz. vol. 185; p. 1257.
Axelrod, Salomon, Oberschöneweide, Germany, assignor to General Electric Company. Coloring metals. No. 1,023,291; Apr. 16; Sp. p. 3309; Gaz. vol. 177; p. 591.
Axelton, Madel T. and W. C., Graettinger, Iowa. Oil-can. No. 1,013,105; Jan. 2; Sp. p. 17; Gaz. vol. 174; p. 6.
Axelton, Madel T. and W. C., Graettinger, Iowa; said W. C. Axelton assignor to said Madel T. Axelton. Oil-can. No. 1,028,835; June 4; Sp. p. 1648; Gaz. vol. 179; p. 257.
Axelton, William C. (See Axelton, Madel T. and W. C.)
Axford, Harry W., and J. E. Clearwater, San Francisco, Cal. Oil-burner. No. 1,017,493; Feb. 13; Sp. p. 2792; Gaz. vol. 175; p. 471.
Axsiom, Andrew J., assignor of one-half to J. G. Urmey, Bloomington, Ind. Floor-oiler. No. 1,034,950; Aug. 6; Gaz. vol. 181; p. 184.
Axt, Frederick G., and B. B. Goodrich, assignors of one-third to W. J. Birken, Newark, N. J. Vending apparatus. No. 1,031,682; July 9; Gaz. vol. 180; p. 331.
Axt, Harry J. (See Nelson and Axt.)
Axtell, Fred W., Fort Worth, Tex. Pump-jack for double-acting pumps. No. 1,024,921; Apr. 30; Sp. p. 6848; Gaz. vol. 177; p. 1203.
Aydelott, Halstead T., Birmingham, Ala. Attachment for steam-locomotives. No. 1,038,515; Sept. 17; Gaz. vol. 182; p. 518.
Ayer, James I., assignor to Simplex Electric Heating Company, Cambridge, Mass. Automatic electric water-heater. No. 1,029,523; June 11; Sp. p. 3145; Gaz. vol. 179; p. 527.
Ayer, James I., assignor to Simplex Electric Heating Company, Cambridge, Mass. Test-tube heater. No. 1,043,561; Nov. 5; Gaz. vol. 184; p. 185.
Ayers, Augustine R., Cleveland, Ohio. Pipe-supporting system for locomotive-engines. No. 1,027,973; May 28; Sp. p. 6335; Gaz. vol. 178; p. 1087.
Ayers, John H., Commerce, Ga. Cotton-chopper. No. 1,021,228; Mar. 26; Sp. p. 4727; Gaz. vol. 176; p. 864.
Ayers, Joseph G., Jr., Steelton, Pa. Motor-propelled ball. No. 1,033,077; July 23; Gaz. vol. 180; p. 887.
Ayes, Matt M., Chicago, Ill. Hat-frame machine. No. 1,017,841; Feb. 20; Sp. p. 3560; Gaz. vol. 175; p. 624.
Ayling, Arthur W., and P. F. Reichert, Toledo, Ohio. Float. (Reissue.) No. 13,389; Mar. 26; Sp. p. 5821; Gaz. vol. 176; p. 1043.
Aylor, Bismark, Cleveland, Ohio. Router-plane. No. 1,031,509; July 2; Gaz. vol. 180; p. 230.
Aylsworth, Jonas W., East Orange, N. J. Fusible phenol resin and forming same. No. 1,029,737; June 18; Sp. p. 3632; Gaz. vol. 179; p. 640.
Aylsworth, Jonas W., East Orange, N. J. Plastic phenolic condensation product. No. 1,046,137; Dec. 3; Gaz. vol. 185; p. 117.
Aylsworth, Jonas W., East Orange, N. J. Forming phenolic condensation products. No. 1,047,484; Dec. 17; Gaz. vol. 185; p. 657.
Aylsworth, Jonas W., East Orange, assignor, by mesne assignments, to Thomas A. Edison, Incorporated, West Orange, N. J. Composition for duplicate sound-records. No. 1,017,032; Feb. 13; Sp. p. 1779; Gaz. vol. 175; p. 310.
Aylsworth, Jonas W., East Orange, assignor, by mesne assignments, to Thomas A. Edison Incorporated, West Orange, N. J. Apparatus for duplicating sound-records. No. 1,024,965; Apr. 30; Sp. p. 6929; Gaz. vol. 177; p. 1218.
Aylsworth, Jonas W., East Orange, assignor, by mesne assignments, to Thomas A. Edison, Incorporated, West Orange, N. J. Apparatus for making duplicate phonograph-records. No. 1,027,793; May 28; Sp. p. 5889; Gaz. vol. 178; p. 1025.
Aylsworth, Jonas W., East Orange, assignor, by mesne assignments, to Thomas A. Edison, Incorporated, West Orange, N. J. Electroplating. No. 1,029,965; June 18; Sp. p. 4144; Gaz. vol. 179; p. 718.
Aylsworth, Jonas W., East Orange assignor, by mesne assignments, to Thomas A. Edison, Incorporated, West Orange, N. J. Phonograph-record. No. 1,036,415; Aug. 20; Gaz. vol. 181; p. 755.
Aylsworth, Jonas W., East Orange, assignor, by mesne assignments, to Thomas A. Edison, Incorporated, West Orange, N. J. Manufacturing sound-records. No. 1,036,416; Aug. 20; Gaz. vol. 181; p. 755.
Aylsworth, Jonas W., East Orange, assignor, by mesne assignments, to Thomas A. Edison, Incorporated, West Orange, N. J. Phonograph-record and making the same. No. 1,043,389; Nov. 5; Gaz. vol. 184; p. 123.
Aylsworth, Jonas W., East Orange, assignor of one-half to F. L. Dyer, Montclair, N. J. Phenolic condensation product and preparing same. No. 1,020,593; Mar. 19; Sp. p. 3371; Gaz. vol. 176; p. 599.

Alphabetical list of patentees—Continued.

Aylsworth, Jonas W., East Orange, assignor of one-half to F. L. Dyer, Montclair, N. J. Plastic phenolic condensation product and forming same. No. 1,020,594; Mar. 19; Sp. p. 3375; Gaz. vol. 176; p. 600.

Aylsworth, Jonas W., East Orange, assignor of one-half to F. L. Dyer, Montclair, N. J. Forming fusible phenol resins. No. 1,027,794; May 28; Sp. p. 5894; Gaz. vol. 178; p. 1025.

Aylsworth, Jonas W., East Orange, assignor of one-half to F. L. Dyer, Montclair, N. J. Non-inflammable lubricant and preparing the same. No. 1,028,926; June 11; Sp. p. 1874; Gaz. vol. 179; p. 324.

Aylsworth, Jonas W., East Orange, assignor of one-half to F. L. Dyer, Montclair, N. J. Non-inflammable lubricating-oil. No. 1,029,254; June 11; Sp. p. 2567; Gaz. vol. 179; p. 435.

Aylsworth, Jonas W., East Orange, assignor of one-half to F. L. Dyer, Montclair, N. J. Forming articles of non-plastic resinized phenols. No. 1,033,044; July 16; Gaz. vol. 180; p. 838.

Aylsworth, Jonas W., East Orange, assignor of one-half to F. L. Dyer, Montclair, N. J. Plastic composition and preparing the same. No. 1,046,420; Dec. 3; Gaz. vol. 185; p. 218.

Aylsworth, Jonas W., East Orange, and E. L. Aiken, Orange, assignors, by mesne assignments, to Thomas A. Edison, Incorporated, West Orange, N. J. Phonograph-record-molding apparatus. No. 1,041,948; Oct. 22; Gaz. vol. 183; p. 871.

Aylward, Henry W. (See Schlagel, Jacob, assignor.)

Ayres, Elwood B. (See Schwartz and Ayres.)

Ayres, Elwood B., assignor to The Philadelphia Textile Machinery Company, Philadelphia, Pa. Truck-unloading device. No. 1,018,862; Feb. 27; Sp. p. 5841; Gaz. vol. 175; p. 1008.

Ayres, George W., assignor of one-half to J. E. Walker, Rolla, Mo. Combination flexible cross-tie and rail-joint. No. 1,048,640; Dec. 31; Gaz. vol. 185; p. 1118.

Azbill, William C., North McAlester, Okla. Latch-lever. No. 1,033,145; July 23; Gaz. vol. 180; p. 911.

B. A. Ballou and Company. (See Maker, Ralph K., assignor.)

B. A. Ballou and Company. (See Morehouse, Eugene, assignor.)

B. B. S. Manufacturing Company. (See Barstow and Bradford, assignors.)

B. F. Avery & Sons. (See Clark, Cyril B., assignor.)

B. F. Cummins Company, The. (See Lynch, John T., assignor.)

B. F. Cummins Company, The. (See Lynch and Bolton, assignors.)

B. F. Goodrich Company, The. (See Raymond, Harry K., assignor.)

B. F. Goodrich Company, The. (See Smith, Frank L., assignor.)

B. F. Perkins and Son. (See Cleveland, Fred P., assignor.)

B. F. Perkins and Son. (See Stanley, John O., assignor.)

B. F. Perkins & Son. (See Stanley and Perkins, assignors.)

B. F. Sturtevant Company. (See Bartlett, Amos C., assignor.)

B. F. Sturtevant Company. (See Bentley, Oliver D. H., assignor.)

B. F. Sturtevant Company. (See Beyer, Otto S., assignor.)

B. F. Sturtevant Company. (See Foss, Benjamin S., assignor.)

B. F. Sturtevant Company. (See Freeman, Ernest B., assignor.)

B. F. Sturtevant Company. (See Sanders, Thomas R., assignor.)

B. F. Sturtevant Company. (See Snow, William E., assignor.)

B. L. Marble Chair Company, The. (See Pettibone, Arthur D., assignor.)

B & R Rubber Company, The. (See Wills, Arthur J., assignor.)

Baader, Hermann, Gelterkinden, Switzerland. Loom shuttle-motion. No. 1,018,601; Feb. 27; Sp. p. 5296; Gaz. vol. 175; p. 919.

Baas, Albertus, Wildervank, Netherlands. Potato-harvester. No. 1,032,175; July 9; Gaz. vol. 180; p. 499.

Baasch, Johann. (See Brown and Baasch.)

Babb Aeroplane Company. (See Babb, Claude, assignor.)

Babb, Claude, assignor to Babb Aeroplane Company, San Diego, Cal. Flying-machine. No. 1,048,272; Dec. 24; Gaz. vol. 185; p. 953.

Babb, Edwin, Akron, Ohio. Apparatus for handling clay pipes. No. 1,042,307; Oct. 22; Gaz. vol. 183; p. 989.

Babb, James W., New London, Wis. Railway fastening device. No. 1,049,192; Dec. 31; Gaz. vol. 185; p. 1308.

Babbitt, Elwin J., assignor of one-half to L. G. Riley, Onaway, Mich. Music-holder. No. 1,047,879; Dec. 17; Gaz. vol. 185; p. 795.

Babbitt, Rollin H., Jr., assignor to Weir Stove Company, Taunton, Mass. Ash-chute for stoves. No. 1,045,359; Nov. 26; Gaz. vol. 184; p. 895.

Babbitt, Seward, and C. Housum, Youngstown, Ohio. Forming flanges on pipes. No. 1,046,138; Dec. 3; Gaz. vol. 185; p. 117.

Babcock, Frank A., assignor of one-half to J. E. Maloney, Syracuse, N. Y. Transmission-gearing. No. 1,037,718; Sept. 3; Gaz. vol. 182; p. 182.

Babcock, Fred A., assignor of one-half to C. C. Peck, Wyndmoor, Pa. Tool with radially-movable blades for circular cutting. No. 1,038,819; Sept. 17; Gaz. vol. 182; p. 626.

Babcock, Garrison, assignor to Telechronometer Company, Rochester, N. Y. Telephone metering system. No. 1,019,879; Mar. 12; Sp. p. 1856; Gaz. vol. 176; p. 326.

Babcock, George E., assignor to Empire State Metal Wheel Company, Fort Plain, N. Y. Metal hub. No. 1,045,103; Nov. 19; Gaz. vol. 184; p. 777.

Babcock, Irwin H., assignor of one-half to L. A. Coon, De Ruyter, N. Y. Pneumatic cushioned wheel. No. 1,040,114; Oct. 1; Gaz. vol. 183; p. 148.

Babcock & Wilcox Company, The. (See Bell, John E., assignor.)

Babcock & Wilcox Company, The. (See Higgins, Campbell P., assignor.)

Babcock & Wilcox Company, The. (See Jacobus, David S., assignor.)

Babcock & Wilcox Company, The. (See Peabody, Ernest H., assignor.)

Babcock & Wilcox Company, The. (See Pratt, Arthur D., assignor.)

Babcock & Wilcox Company, The. (See Safberg, Bror F., assignor.)

Babcock & Wilcox Company, The. (See Sargent and Jacobus, assignors.)

Babcock & Wilcox Company, The. (See Sewall, Minott W., assignor.)

Babcock & Wilcox Company. (See Smith, James, assignor.)

Babcock & Wilcox Company, The. (See Sneddon, James P., assignor.)

Baber, James M., assignor of one-half to R. F. Kistler, Henrietta, N. C. Operating-table. No. 1,024,966; Apr. 30; Sp. p. 6933; Gaz. vol. 177; p. 1218.

Baber, Joseph L., Wyndal, W. Va. Counter paper-cutter. No. 1,040,845; Oct. 8; Gaz. vol. 183; p. 428.

Babin, Robert M. (See Lippke, Babin, and Miserez.)

Babst, Joseph, assignor to William Schimper & Company, Hoboken, N. J. Holder for pocket-books and the like. No. 1,013,580; Jan. 2; Sp. p. 1054; Gaz. vol. 174; p. 170.

Babst, Joseph C. (See Fisch and Babst.)

Bacchi, Abdenago, Quincy, Mass. Shock-absorbing device. No. 1,023,795; Apr. 23; Sp. p. 4286; Gaz. vol. 177; p. 778.

Bach, Charles A. L., Philadelphia, Pa. Roller-bearing. No. 1,036,538; Aug. 27; Gaz. vol. 181; p. 829.

Bache-Wiig, Jens, Edgewood Park, Pa., assignor to Westinghouse Electric and Manufacturing Company. Armature for dynamo-electric machines. No. 1,017,071; Feb. 13; Sp. p. 1869; Gaz. vol. 175; p. 324.

Bachelet, Emile, Mount Vernon, N. Y. Levitating transmitting apparatus. No. 1,020,942; Mar. 19; Sp. p. 4101; Gaz. vol. 176; p. 717.

Bachelet, Emile, Mount Vernon, N. Y. Levitating transmitting apparatus. No. 1,020,943; Mar. 19; Sp. p. 4104; Gaz. vol. 176; p. 717.

Bachmann, Gustav A., Baltimore, Md. Coin-mailing card. No. 1,048,125; Dec. 24; Gaz. vol. 185; p. 906.

Bachmann, John, Chicago, Ill. Tobacco-pipe. No. 1,021,442; Mar. 26; Sp. p. 5195; Gaz. vol. 176; p. 940.

Bachrach, Sol, Plymouth, Ohio. Music-leaf turner. No. 1,045,247; Nov. 26; Gaz. vol. 184; p. 857.

Bachrich, Ludwig, Vienna, Austria-Hungary. Control of valves, detents, switches, and the like. No. 1,043,500; Nov. 5; Gaz. vol. 184; p. 164.

Bachten, Louis, and J. Gallay, Geneva, Switzerland. Surface-cooler for automobiles. No. 1,023,453; Apr. 16; Sp. p. 3625; Gaz. vol. 177; p. 643.

Bachus, Lucius J., Louisville, Ky. Gas-lighting apparatus. No. 1,043,190; Nov. 5; Gaz. vol. 184; p. 52.

Back, Arthur D., Juneau, Alaska. Bag-holder. No. 1,038,474; Sept. 10; Gaz. vol. 182; p. 471.

Backermann, Henry G., Westhoff, Tex. Horse-detacher. No. 1,033,654; July 23; Gaz. vol. 180; p. 1081.

Backes, Mathias, Petersburg, Ind. Adjustable means for detachably connecting a post to a base. No. 1,042,187; Oct. 22; Gaz. vol. 183; p. 949.

Backinger, Christian, Seattle, Wash. Hydrocarbon-burner. No. 1,022,348; Apr. 2; Sp. p. 1240; Gaz. vol. 177; p. 199.

Backlin, Axel F. (See Daniels and Backlin.)

Backlund, Isaac A., Spokane, Wash. Damper-regulator. No. 1,032,176; July 9; Gaz. vol. 180; p. 499.

Backman, Carl, Jamestown, N. Y. Bread-cutter. No. 1,038,820; Sept. 17; Gaz. vol. 182; p. 626.

Backmire, George H., Philadelphia, Pa. Vent-box. No. 1,037,104; Aug. 27; Gaz. vol. 181; p. 1019.

Backstay Machine and Leather Company. (See Schemmel, Robert C., assignor.)

Backus, Carl, *et al.* (See Woodman, John J., assignor.)

Bacon, Frank W., Omaha, Nebr. Vulcanizer. No. 1,031,831; July 9; Gaz. vol. 180; p. 383.

Bacon, George G., Solon, Ohio. Poultry-feeder. No. 1,046,938; Dec. 10; Gaz. vol. 185; p. 435.

Alphabetical list of patentees—Continued.

Bacon, Gilbert and M. L., Antigo, Wis. Rail-joint chair. No. 1,041,403; Oct. 15; Gaz. vol. 183; p. 650.
Bacon, Milton L. (See Bacon, Gilbert and M. L.)
Bacon, Reginald H. S., and F. W. H. Shepherd, Coventry, England. Grab for lifting projectiles. No. 1,045,804; Dec. 3; Gaz. vol. 185; p. 3.
Bacon, Thomas P., and W. A. Gwynn, Santa Rosa, Cal., assignors to Gwynn-Bacon Vulcanizer Co., Inc., St. Louis, Mo. Pressure-closed electric switch. No. 1,015,225; Jan. 16; Sp. p. 4688; Gaz. vol. 174; p. 791.
Bacsardi, Stephen, Passaic, assignor of one-fourth to M. Lottman, Clifton, N. J. Register for pay-as-you-enter cars. No. 1,040,115; Oct. 1; Gaz. vol. 183; p. 149.
Badanes, Bernard, New York, N. Y. Shower-bath attachment. No. 1,033,225; July 23; Gaz. vol. 180; p. 939.
Badanes, Samuel E., Flushing, N. Y. Garment. No. 1,034,186; July 30; Gaz. vol. 180; p. 1290.
Badcock, Edward B., London, England. Internal-combustion liquid-pump. No. 1,029,039; June 11; Sp. p. 2114; Gaz. vol. 179; p. 363.
Bade, Franz, Peine, Germany. Diamond drill. No. 1,041,568; Oct. 15; Gaz. vol. 183; p. 704.
Bade, Franz, Peine, Germany. Percussion-tool machine. No. 1,041,569; Oct. 15; Gaz. vol. 183; p. 704.
Badeau, Charles C., assignor to S. B. Condit, Jr., Boston, Mass. Oil-switch. No. 1,021,746; Mar. 26; Sp. p. 5793; Gaz. vol. 176; p. 1040.
Badeau, Charles C., assignor to S. B. Condit, Jr., Boston, Mass. Circuit-breaker. No. 1,023,102; Apr. 9; Sp. p. 2865; Gaz. vol. 177; p. 488.
Badeau, Charles C., assignor to S. B. Condit, Jr., Boston, Mass. Auxiliary carbon-contact circuit-breaker. No. 1,026,296; May 14; Sp. p. 2653; Gaz. vol. 178; p. 444.
Badeau, Charles C., Winthrop, assignor to S. B. Condit, Jr., Brookline, Mass. High-potential electric switch. No. 1,029,098; June 11; Sp. p. 2239; Gaz. vol. 179; p. 383.
Badeau, Charles C., Winthrop, assignor to S. B. Condit, Jr., Brookline, Mass. Distant-control electric switch. No. 1,036,417; Aug. 20; Gaz. vol. 181; p. 756.
Badeau, Charles C., Swissvale, Pa., assignor to Roller-Smith Company, New York, N. Y. Switch or circuit-opener for high-potential circuits. No. 1,041,570; Oct. 15; Gaz. vol. 183; p. 704.
Badeau, Louis C., New York, N. Y. Airship. No. 1,020,015; Mar. 12; Sp. p. 2149; Gaz. vol. 176; p. 370.
Bader, Carl, assignor to Berlin-Anhaltische Maschinenbau-Aktien-Gesellschaft, Dessau, Germany. Expansible pulley. No. 1,032,803; July 16; Gaz. vol. 180; p. 758.
Bader, Gustav A., Rochester, N. Y. Eyeglass-mounting. No. 1,027,515; May 28; Sp. p. 5332; Gaz. vol. 178; p. 934.
Bader, Gustav A., Rochester, N. Y. Spectacle-mounting. No. 1,031,228; July 2; Gaz. vol. 180; p. 134.
Bader, Gustav A., Rochester, N. Y. Cap. No. 1,033,518; July 23; Gaz. vol. 180; p. 1035.
Bader, Gustav A., Rochester, N. Y. Eyeglass-mounting. No. 1,037,849; Sept. 10; Gaz. vol. 182; p. 257.
Bader, Gustav A., Rochester, N. Y. Eyeglass-mounting. No. 1,038,516; Sept. 17; Gaz. vol. 182; p. 519.
Bader, Gustav A., Rochester, N. Y. Eyeglass-mounting. No. 1,040,607; Oct. 8; Gaz. vol. 183; p. 348.
Bader, Gustav A., Rochester, N. Y. Eyeglass-mounting. No. 1,043,289; Nov. 5; Gaz. vol. 184; p. 86.
Bader, Gustav A., Rochester, N. Y. Eyeglass-mounting. No. 1,046,425; Dec. 10; Gaz. vol. 185; p. 255.
Bader, Louis, assignor of one-third to M. J. Detmer and one-third to W. Bader, Chicago, Ill. Acetylene-gas generator. No. 1,015,867; Jan. 30; Sp. p. 6103; Gaz. vol. 174; p. 1064.
Bader, Louis, assignor of one-third to W. Bader and one-third to M. J. Detmer, Chicago, Ill. Gasometer. No. 1,016,058; Jan. 30; Sp. p. 6520; Gaz. vol. 174; p. 1134.
Bader, Louis C., assignor of one-half to M. J. Detmer, Chicago, Ill. Lamp-post. No. 1,042,750; Oct. 29; Gaz. vol. 183; p. 1172.
Bader, Louis, assignor to Detmer Manufacturing Company, Chicago, Ill. Means for feeding carbid to acetylene-gas generators. No. 1,049,321; Dec. 31; Gaz. vol. 185; p. 1354.
Bader, William, *et al.* (See Bader, Louis, assignor.)
Badger Brass Mfg. Co., The. (See Welles, Richard H., assignor.)
Badger Four Wheel Drive Auto Company, The. (See Zachow, Otto, assignor.)
Badger, Luther, St. Johns, Oreg. Ball-bearing pivoted and balanced device. No. 1,023,609; Apr. 16; Sp. p. 3948; Gaz. vol. 177; p. 693.
Badgley, Samuel F., Toronto, Ontario, Canada, assignor to Eastman Kodak Co., Rochester, N. Y. Apparatus for forming photographic mats and masks. No. 1,023,914; Apr. 23; Sp. p. 4607; Gaz. vol. 177; p. 820.
Badin, Adrien. (See Bunet and Badin.)
Badische Anilin & Soda Fabrik. (See Bally, Oscar, assignor.)
Badische Anilin & Soda Fabrik. (See Boner and Bally, assignors.)
Badische Anilin & Soda Fabrik. (See Bosch and Keller, assignors.)
Badische Anilin & Soda Fabrik. (See Bosch and Mittasch, assignors.)
Badische Anilin & Soda Fabrik. (See Bosch and Wild, assignors.)
Badische Anilin & Soda Fabrik. (See Fussenegger, Ernst, assignor.)
Badische Anilin & Soda Fabrik. (See Gaus, Wilhelm, assignor.)
Badische Anilin & Soda Fabrik. (See Graul, Otto, assignor.)
Badische Anilin & Soda Fabrik. (See Graul and Hanschke, assignors.)
Badische Anilin & Soda Fabrik. (See Holt, Henry S. A., assignor.)
Badische Anilin & Soda Fabrik. (See Holt and Schmidt, assignors.)
Badische Anilin & Soda Fabrik. (See Isler, Max H., assignor.)
Badische Anilin & Soda Fabrik. (See Lüttringhaus and Braren, assignors.)
Badische Anilin & Soda Fabrik. (See Lüttringhaus and Diesbach, assignors.)
Badische Anilin & Soda Fabrik. (See Lüttringhaus and Schwarz, assignors.)
Badische Anilin & Soda Fabric. (See Mansfeld, Hans, assignor.)
Badische Anilin & Soda Fabrik. (See Schmidt, Otto, assignor.)
Badische Anilin & Soda Fabrik. (See Schmidt, Lutz, and Eichler, assignors.)
Badische Anilin & Soda Fabrik. (See Schönherr and Hessberger, assignors.)
Badische Anilin & Soda Fabrik. (See Webel, Franz, assignor.)
Badische Anilin & Soda Fabrik. (See Wickham, Percy E., assignor.)
Badische Anilin & Soda Fabrik. (See Wielgolaski and Schonherr, assignors.)
Baechle, Nicholas W., Cincinnati, Ohio. Adjustable driver or carrier for lathes, &c. No. 1,022,118; Apr. 2; Sp. p. 777; Gaz. vol. 177; p. 123.
Baechler, Charles, Kansas City, Kans. Rail tie and fastening. No. 1,027,370; May 21; Sp. p. 5032; Gaz. vol. 178; p. 848.
Baechtold, Charles A., Mountainside, N. J., assignor to Lidgerwood Manufacturing Company, New York, N. Y. Car-transferring means. No. 1,013,106; Jan. 2; Sp. p. 18; Gaz. vol. 174; p. 6.
Baecker, Alfred, Detroit, Mich. Record-holding cabinet. No. 1,030,376; June 25; Sp. p. 5048; Gaz. vol. 179; p. 900.
Baehr, George, Ampere, N. J., assignor to National Tube Company, Pittsburgh, Pa. Method of and apparatus for preventing gas explosions. No. 1,015,929; Jan. 30; Sp. p. 6236; Gaz. vol. 174; p. 1087.
Baehr, George, Ampere, N. J., assignor to National Tube Company, Pittsburgh, Pa. Safety device for gas mains and holders. No. 1,015,930; Jan. 30; Sp. p. 6240; Gaz. vol. 174; p. 1087.
Baekeland, Leo H., Yonkers, assignor to General Bakelite Company, New York, N. Y. Varnish. No. 1,018,385; Feb. 20; Sp. p. 4753; Gaz. vol. 175; p. 813.
Baekeland, Leo H., Yonkers, assignor to General Bakelite Company, New York, N. Y. Composite cardboard. No. 1,019,406; Mar. 5; Sp. p. 943; Gaz. vol. 176; p. 138.
Baekeland, Leo H., Yonkers, assignor to General Bakelite Company, New York, N. Y. Uniting objects. No. 1,019,407; Mar. 5; Sp. p. 944; Gaz. vol. 176; p. 138.
Baekeland, Leo H., Yonkers, assignor to General Bakelite Company, New York, N. Y. Varnish. No. 1,037,719; Sept. 3; Gaz. vol. 182; p. 182.
Baekeland, Leo H., Yonkers, assignor to General Bakelite Company, New York, N. Y. Making insoluble bodies derived from phenol alcohols. No. 1,038,475; Sept. 10; Gaz. vol. 182; p. 471.
Baekeland, Leo H., and N. Thurlow, Yonkers, assignors to General Bakelite Company, New York, N. Y. Wood-finishing. No. 1,019,408; Mar. 5; Sp. p. 946; Gaz. vol. 176; p. 138.
Baerresen, Harold W., Denver, Colo. Pedestal. No. 1,046,247; Dec. 3; Gaz. vol. 185; p. 156.
Baerwalde, Carl, Cleveland, Ohio. Nut-tapping machine. No. 1,028,526; June 4; Sp. p. 1010; Gaz. vol. 179; p. 154.
Baetz, Henry, Seattle, Wash. Forming sea-walls, &c. No. 1,048,791; Dec. 31; Gaz. vol. 185; p. 1172.
Baeumle, John, Milwaukee, Wis. Necktie holder and shield. No. 1,022,398; Apr. 9; Sp. p. 1351; Gaz. vol. 177; p. 247.
Bagar, Franz, Vienna, Austria-Hungary, assignor to Josef Inwald Glass Co., New York, N. Y. Bottle-closing device. No. 1,038,476; Sept. 10; Gaz. vol. 182; p. 471.
Bagdigian, Henry M., Worcester, Mass. Resilient tire for wheels of motor-vehicles, &c. No. 1,018,027; Feb. 20; Sp. p. 3988; Gaz. vol. 175; p. 690.
Baggaley, Ralph, Pittsburgh, Pa. Metal railway cross-tie. No. 1,046,939; Dec. 10; Gaz. vol. 185; p. 435.
Bahde, Carl H. A., Milwaukee, Wis. Elevator-lock. No. 1,035,130; Aug. 6; Gaz. vol. 181; p. 242.

Alphabetical list of patentees—Continued.

Bahnsen, John, Chicago, Ill., assignor to American Seating Company. Friction-hinge. No. 1,026,781; May 21; Sp. p. 3725; Gaz. vol. 178; p. 645.
Bahr, Georg, Berlin-Charlottenburg, Germany. Device for producing writing characters. No. 1,022,384; Apr. 2; Sp. p. 1311; Gaz. vol. 177; p. 212.
Baier, George W., Cissna Park, Ill. Automatic fountain. No. 1,042,379; Oct. 29; Gaz. vol. 183; p. 1040.
Bail, Alfred C., New York, N. Y. Water-carousel. No. 1,031,510; July 2; Gaz. vol. 180; p. 230.
Bailey, Alfred M., Salem, Mass. Compound. No. 1,029,165; June 11; Sp. p. 2381; Gaz. vol. 179; p. 405.
Bailey, Annanias B. (See Thomas and Bailey.)
Bailey, Berton L., Portland, Oreg. Chain saw. No. 1,016,664; Feb. 6; Sp. p. 990; Gaz. vol. 175; p. 150.
Bailey, Charles A., Cromwell, Conn. Tape-pistol. No. 1,041,719; Oct. 22; Gaz. vol. 183; p. 789.
Bailey, Clark, assignor to L. J. Small, Utica, N. Y. Signal attachment for letter-boxes. No. 1,026,338; May 14; Sp. p. 2757; Gaz. vol. 178; p. 460.
Bailey, Curtis L., assignor to The "New-Way" Motor Company, Lansing, Mich. Valve. No. 1,044,623; Nov. 19; Gaz. vol. 184; p. 611.
Bailey, Douglas A., Fort Worth, Tex. Combined socket and switch for electric lights. No. 1,036,418; Aug. 20; Gaz. vol. 181; p. 756.
Bailey, Edgerly R., Clarinda, Iowa. Cream-separator. No. 1,029,785; June 18; Sp. p. 3725; Gaz. vol. 179; p. 656.
Bailey, Edward L., assignor to Brown & Bailey Company, Philadelphia, Pa. Pail-tray. No. 1,016,468; Feb. 6; Sp. p. 531; Gaz. vol. 175; p. 82.
Bailey, Frank, and F. H. Jackson, London, England. Apparatus for straining liquids. No. 1,038,066; Sept. 10; Gaz. vol. 182; p. 332.
Bailey, Frank L. (See Allen and Bailey.)
Bailey, George T., Colorado Springs, Colo. Attachment for cooling and vending machines. No. 1,016,601; Feb. 6; Sp. p. 849; Gaz. vol. 175; p. 127.
Bailey, George T., St. Petersburg, Fla. Cooling device for bottles and packages. No. 1,023,116; Apr. 9; Sp. p. 2903; Gaz. vol. 177; p. 493.
Bailey, Harry E., Albany, N. Y. Coil-protector. No. 1,043,660; Nov. 5; Gaz. vol. 184; p. 217.
Bailey, Jessie M. (See Bailey, Walter F., assignor.)
Bailey, John, Great Falls, Mont. Electric delivery system. No. 1,020,016; Mar. 12; Sp. p. 2151; Gaz. vol. 176; p. 371.
Bailey, John J., Ubly, Mich. Portable rack. No. 1,039,080; Sept. 24; Gaz. vol. 182; p. 728.
Bailey, John W., New York, N. Y., assignor to International Lead Company. Apparatus for the production of lead pigments. No. 1,031,160; July 2; Gaz. vol. 180; p. 111.
Bailey, John W., assignor of one-half to C. J. Yates, Seattle, Wash. Frame for mirrors and the like. No. 1,039,881; Oct. 1; Gaz. vol. 183; p. 71.
Bailey, Joseph, assignor of one-half to C. K. Curtis, Jersey City, N. J. Bottle-stopper. No. 1,038,067; Sept. 10; Gaz. vol. 182; p. 332.
Bailey, Merritt J., *et al.* (See Akes, Charles Y., assignor.)
Bailey, Percy S., Lynn, Mass., assignor to General Electric Company. Safety-stop for gas-caps. No. 1,019,409; Mar. 5; Sp. p. 949; Gaz. vol. 176; p. 138.
Bailey, Samuel R., Amesbury, Mass. Belt-shifter. No. 1,022,650; Apr. 9; Sp. p. 1899; Gaz. vol. 177; p. 332.
Bailey, Seth G., assignor to The Bailey Theatre Fly Rail Machine Company, Denver, Colo. Means for handling hanging scenery in theaters. No. 1,027,028; May 21; Sp. p. 4304; Gaz. vol. 178; p. 731.
Bailey, Seth G., Denver, Colo., assignor of one-fourth to M. Beck, New York, N. Y., and one-fourth to A. C. Carson, Denver, Colo. Mechanism for handling hanging scenery in theaters. No. 1,027,027; May 21; Sp. p. 4297; Gaz. vol. 178; p. 731.
Bailey Theatre Fly Rail Machine Company, The. (See Bailey, Seth G., assignor.)
Bailey, Theodorus S., Quincy, Mass., assignor to Electric Boat Company, New York, N. Y. Conning mechanism for submarine boats. No. 1,037,191; Sept. 3; Gaz. vol. 182; p. 5.
Bailey, Walter F., assignor of one-half to J. M. Bailey, Los Angeles, Cal. Weighing-scale for refrigerators. No. 1,031,161; July 2; Gaz. vol. 180; p. 111.
Bailey, William. (See McCausland and Bailey.)
Bailey, William A., Sioux Falls, S. D. Hay-handling appliance. No. 1,021,085; Mar. 26; Sp. p. 4406; Gaz. vol. 176; p. 817.
Baillie, George E., Denver, Colo. Steam-gage holder. No. 1,036,539; Aug. 27; Gaz. vol. 181; p. 830.
Baillie, Granville H., Westminster, London, England. Glass-furnace. No. 1,032,177; July 9; Gaz. vol. 180; p. 499.
Baillio, Gervais, Niagara Falls, N. Y., assignor to Castner Electrolytic Alkali Company. Making anhydrous tin chlorid. No. 1,018,805; Feb. 27; Sp. p. 5727; Gaz. vol. 175; p. 988.
Baillod, Paul, La Chaux-de-Fonds, Switzerland. Reading-desk. No. 1,020,875; Mar. 19; Sp. p. 3984; Gaz. vol. 176; p. 694.
Bain, Benjamin L. (See Bain, Joseph S. and B. L.)
Bain, James, Hamilton, Ontario, Canada. Water-motor. No. 1,044,725; Nov. 19; Gaz. vol. 184; p. 646.
Bain, Joseph S., Luverne, Iowa, and B. L. Bain, Chicago, Ill. Seed-corn-drying device or utensil. No. 1,026,550; May 14; Sp. p. 3200; Gaz. vol. 178; p. 529.
Bainer, Joseph M., H. R. and A. W. Spurling, assignors to The Marysville Cabinet Company, Marysville, Ohio. Type-writer support. No. 1,047,145; Dec. 17; Gaz. vol. 185; p. 535.
Bainum, Osci J., Paxton, Ill. Individual-drinking-cup holder. No. 1,032,527; July 16; Gaz. vol. 180; p. 663.
Bair, Clarence L., San Francisco, Cal. Vehicle-top. No. 1,041,571; Oct. 15; Gaz. vol. 183; p. 704.
Bair, George R., assignor of one-third to S. A. Kinne and one-third to J. M. Catren, Topeka, Kans. Oil-burner. No. 1,034,056; July 30; Gaz. vol. 180; p. 1246.
Baird Corn Husker Co. (See Baird, William S., assignor.)
Baird, Edward A. (See Garner and Baird.)
Baird, Edward P., assignor to Baird Manufacturing Company, Chicago, Ill. Telephone toll apparatus. No. 1,015,280; Jan. 23; Sp. p. 4826; Gaz. vol. 174; p. 837.
Baird, George A., *et al.* (See Makarhof, John A., assignor.)
Baird, James, Detroit, Mich. Spring-wheel. No. 1,045,661; Nov. 26; Gaz. vol. 184; p. 1004.
Baird, Jennie D., St. Charles, Mo. Skeleton skirt-marker. No. 1,048,929; Dec. 31; Gaz. vol. 185; p. 1219.
Baird Machine Company, The. (See Lawrence, Ezra, assignor.)
Baird Machine Company, The. (See Lewis, Arthur J., assignor.)
Baird Manufacturing Company. (See Baird, Edward P., assignor.)
Baird, Myron T., St. Louis, Mo. Lock for motor-boat shafts. No. 1,013,835; Jan. 2; Sp. p. 1622; Gaz. vol. 174; p. 259.
Baird, Myron T., St. Louis, Mo. Automatic starter for motor-vehicles. No. 1,033,978; July 30; Gaz. vol. 180; p. 1218.
Baird, William S., Chicago, Ill., assignor to Baird Corn Husker Co. Snapping mechanism for corn-harvesting machines. No. 1,035,518; Aug. 13; Gaz. vol. 181; p. 409.
Baird, William S., Urbana, Ill., assignor to Baird Corn Husker Co. Corn-harvesting machine. No. 1,042,371; Oct. 22; Gaz. vol. 183; p. 1010.
Bajkay, Alexander v., Budapest, Austria-Hungary. Portable dark room. No. 1,032,728; July 16; Gaz. vol. 180; p. 734.
Baker, Abner D., Swanton, Ohio. Valve-gear for locomotive-engines. No. 1,036,057; Aug. 20; Gaz. vol. 181; p. 627.
Baker, Abner D., Swanton, Ohio. Reversible variable-cut-off valve-gear for locomotives. No. 1,036,058; Aug. 20; Gaz. vol. 181; p. 628.
Baker, Abner D., Swanton, Ohio. Reversible variable-cut-off valve-gear. No. 1,036,059; Aug. 20; Gaz. vol. 181; p. 628.
Baker, Adolph A., Butte, Mont. Snow-shoe. No. 1,038,264; Sept. 10; Gaz. vol. 182; p. 398.
Baker, Allen J., Stewartstown, Pa. Means for fastening the movements of watches in the cases. No. 1,037,577; Sept. 3; Gaz. vol. 182; p. 135.
Baker, Alvin W. (See Rumsey, James W., assignor.)
Baker, Ambrose B., Salem, Ohio. Fly-catcher for lamps. No. 1,019,410; Mar. 5; Sp. p. 949; Gaz. vol. 176; p. 138.
Baker, Andrew H., Brockton, Mass. Poultry-feeder. No. 1,020,790; Mar. 19; Sp. p. 3801; Gaz. vol. 176; p. 666.
Baker, Arthur G., assignor to The Universal Machine Company, Albion, Mich. Type-setting machine. No. 1,045,360; Nov. 26; Gaz. vol. 184; p. 895.
Baker, Arthur W., W. L. Hinson, and H. W. Phillips, Georgetown, S. C. Crate-hook. No. 1,032,980; July 16; Gaz. vol. 180; p. 816.
Baker & Baker. (See Langdon, Warren W., assignor.)
Baker, Benjamin H., Southbourne, England. Hood-extending device. No. 1,049,286; Dec. 31; Gaz. vol. 185; p. 1340.
Baker, Burton E., Hartford, Conn. Vacuum-regulator for X ray tubes. No. 1,027,795; May 28; Sp. p. 5897; Gaz. vol. 178; p. 1026.
Baker, Charles A., Salem, Ill. Ironing-board. No. 1,017,842; Feb. 20; Sp. p. 3562; Gaz. vol. 175; p. 625.
Baker, Charles H., Cedarville, Cal. Fruit-picker. No. 1,023,709; Apr. 16; Sp. p. 4122; Gaz. vol. 177; p. 723.
Baker, Charles L., assignor of one-half to T. T. Logan, St. Joseph, Mo. Adjustable nozzle-tip. No. 1,042,070; Oct. 22; Gaz. vol. 183; p. 911.
Baker, Charles R., Abilene, Kans. Coop. No. 1,040,489; Oct. 8; Gaz. vol. 183; p. 304.
Baker, Charles W., Montclair, N. J. Locomotive or self-propelled vehicle for use upon railways. No. 1,016,602; Feb. 6; Sp. p. 852; Gaz. vol. 175; p. 128.
Baker, Charles W., Montclair, N. J. Combined internal-combustion engine and compressed-air engine. No. 1,016,603; Feb. 6; Sp. p. 857; Gaz. vol. 175; p. 128.
Baker, David. (See Ladd and Baker.)
Baker, David, Philadelphia, Pa. Apparatus for charging furnaces. No. 1,016,539; Feb. 6; Sp. p. 716; Gaz. vol. 175; p. 106.
Baker, Dexter C., and H. F. Hansen, San Jose, Cal. Rotary pump. No. 1,038,477; Sept. 10; Gaz. vol. 182; p. 472.

Alphabetical list of patentees—Continued.

Baker, Donald C., Canal Dover, Ohio. Envelop-moistening device. No. 1,038,265; Sept. 10; Gaz. vol. 182; p. 398.
Baker, Edward B., Paris, Tex. Hydrocarbon-stove. No. 1,024,053; Apr. 23; Sp. p. 4895; Gaz. vol. 177; p. 867.
Baker, Erle K., Chicago, Ill. Starting device for internal-combustion engines. No. 1,016,314; Feb. 6; Sp. p. 177; Gaz. vol. 175; p. 27.
Baker, Eugene, Darlington, S. C. Bottle-guide. No. 1,034,406; Aug. 6; Gaz. vol. 181; p. 3.
Baker, Ferner B., Little Rock, Ark. Spring-tooth adjuster. No. 1,031,162; July 2; Gaz. vol. 180; p. 111.
Baker, Francis M., Viroqua, Wis. Harvester-reel. No. 1,039,631; Sept. 24; Gaz. vol. 182; p. 921.
Baker, Frank C., assignor of one-half to O. H. Tracy, Bridgeport, Ill. Casing-spear. No. 1,033,655; July 23; Gaz. vol. 180; p. 1081.
Baker, Frank L., Oriskany, N. Y. Hay-fork. No. 1,041,572; Oct. 15; Gaz. vol. 183; p. 705.
Baker, Frank S., Chicago, Ill. Rack for tracings. No. 1,037,408; Sept. 3; Gaz. vol. 182; p. 78.
Baker, Franklin P., Malden, Mass. Inflatable dress or shirt shield. No. 1,021,176; Mar. 26; Sp. p. 4610; Gaz. vol. 176; p. 846.
Baker, Fred I., Orange, Mass. Pneumatic cushion for vehicles. No. 1,026,893; May 21; Sp. p. 3978; Gaz. vol. 178; p. 684.
Baker, Frederick, Brighton, near Melbourne, Victoria, Australia. Mechanism for supplying thread to bobbins in loopers. No. 1,029,335; June 11; Sp. p. 2757; Gaz. vol. 179; p. 465.
Baker, Frederick, Blackheath, and L. Jacobs, assignors to Baker Sewing Machines Trust Limited, London, England. Sewing-machine. No. 1,014,033; Jan. 9; Sp. p. 2113; Gaz. vol. 174; p. 354.
Baker, Frederick, Blackheath, and L. Jacobs, assignors to Baker Sewing Machines Trust Limited, London, England. Sewing-machine. No. 1,047,728; Dec. 17; Gaz. vol. 185; p. 743.
Baker, George, Torrington, Conn. Insulator-knob. No. 1,014,934; Jan. 16; Sp. p. 4122; Gaz. vol. 174; p. 695.
Baker, George M., Garden City, N. Y. Scraper. No. 1,019,294; Mar. 5; Sp. p. 643; Gaz. vol. 176; p. 101.
Baker, George M., Bath, N. Y. Band-brake. No. 1,038,478; Sept. 10; Gaz. vol. 182; p. 472.
Baker, George S., Willesden Junction, London, England. Apparatus for feeding plastic material into receptacles. No. 1,035,299; Aug. 13; Gaz. vol. 181; p. 332.
Baker, George W., Colmesneil, Tex. Syrup-pan. No. 1,034,407; Aug. 6; Gaz. vol. 181; p. 3.
Baker, George W., New York, N. Y. Shoe. No. 1,041,404; Oct. 15; Gaz. vol. 183; p. 651.
Baker, Horace G., Harlan, Iowa. Airship. No. 1,040,608; Oct. 8; Gaz. vol. 183; p. 349.
Baker, Horace W., Dayton, Ohio. Machine for etching plates. No. 1,039,242; Sept. 24; Gaz. vol. 182; p. 786.
Baker Iron Works. (See Pennypacker, Edward J., assignor.)
Baker, Isaac F., East Orange, N. J., assignor, by mesne assignments, to General Electric Company. Automobile control. No. 1,045,496; Nov. 26; Gaz. vol. 184; p. 943.
Baker, J. O. (See Rogers, Reamer, assignor.)
Baker, Jackson B., Portland, Oreg. Intermediate awning-roller support. No. 1,020,246; Mar. 12; Sp. p. 2643; Gaz. vol. 176; p. 448.
Baker, James E., New York, N. Y. Machine for cleaning fabrics. No. 1,028,317; June 4; Sp. p. 555; Gaz. vol. 179; p. 82.
Baker, James H., Pittsburgh, Pa. Machine for making chain-links. No. 1,032,365; July 9; Gaz. vol. 180; p. 565.
Baker, James H., Port Huron, Mich. Snap-hook. No. 1,034,755; Aug. 6; Gaz. vol. 181; p. 118.
Baker, James H., assignor to Flexible Bolt Company, Pittsburgh, Pa. Manufacturing stay-bolts. No. 1,022,998; Apr. 9; Sp. p. 2652; Gaz. vol. 177; p. 452.
Baker, Jesse H., Henderson, Ill. Electrically-actuated railway-switch. No. 1,048,439; Dec. 24; Gaz. vol. 185; p. 1010.
Baker, Jesse W., Pittsburgh, Pa. Propeller-blade for aeroplanes. No. 1,032,729; July 16; Gaz. vol. 180; p. 734.
Baker, John W., W. O. Blowers, and W. H. Bines, assignors to The Watt Mining Car Wheel Company, Barnesville, Ohio. Self-oiling car-wheel. No. 1,035,074; Aug. 6; Gaz. vol. 181; p. 223.
Baker, Joseph, Selly Oak, England. Holder for billiard-chalk and such like. No. 1,018,229; Feb. 20; Sp. p. 4429; Gaz. vol. 175; p. 761.
Baker, Joseph G., Vineland, N. J. Boring, turning, and planing tool. No. 1,048,792; Dec. 31; Gaz. vol. 185; p. 1173.
Baker, Lawrence H., Birmingham, Ala. Advertising-cabinet. No. 1,030,862; July 2; Gaz. vol. 180; p. 4.
Baker, Lewis A., Elgin, Ill. Machine for filling receptacles with liquid. No. 1,036,778; Aug. 27; Gaz. vol. 181; p. 909.
Baker, Lewis T., Pensacola, Fla. Turpentine-gatherer. No. 1,013,107; Jan. 2; Sp. p. 21; Gaz. vol. 174; p. 6.
Baker, Lewis T., Pensacola, Fla. Turpentine-cup. No. 1,016,811; Feb. 6; Sp. p. 1290; Gaz. vol. 175; p. 198.
Baker, Mabel C. (See Henry, Augustus M., assignor.)
Baker, Mabel C. (See Parker, George H., assignor.)
Baker, Mabel C. (See Parker, George H., assignor.) (Reissue.)
Baker Manufacturing Company, The. (See Miller, John G., assignor.)
Baker, Marie K., Houston, Tex. Doll. No. 1,025,234; May 7; Sp. p. 272; Gaz. vol. 178; p. 45.
Baker, Martin J., Portland, Oreg. Dust-settler. No. 1,048,473; Dec. 24; Gaz. vol. 185; p. 1023.
Baker, Max H., Oshkosh, Wis. Loose-leaf binder. No. 1,040,992; Oct. 15; Gaz. vol. 183; p. 512.
Baker, Michael B., and J. A. Kender, Whiting, Ind. Duck-decoy. No. 1,021,910; Apr. 2; Sp. p. 330; Gaz. vol. 177; p. 55.
Baker, Nelson M., assignor to American Optical Company, Southbridge, Mass. Spectacles and eyeglasses. No. 1,032,464; July 16; Gaz. vol. 180; p. 642.
Baker, Nelson M., assignor to American Optical Company, Southbridge, Mass. Eyeglasses. No. 1,039,069; Sept. 17; Gaz. vol. 182; p. 705.
Baker, Otto, Piermont, N. Y., and E. J. McCarty, assignors to T. J. McNamara, Clinton, Mass. Blower and shower for paper-machines. No. 1,019,013; Mar. 5; Sp. p. 4; Gaz. vol. 176; p. 3.
Baker, Raymond W., assignor to Parker-Clark Electric Company, Newark, N. J. Electrically-heated flat-iron. No. 1,039,882; Oct. 1; Gaz. vol. 183; p. 71.
Baker, Raymond W., New York, N. Y., assignor to Parker-Clark Electric Company, Newark, N. J. Apparatus for the manufacture of incandescent lamp filaments and heaters. No. 1,040,116; Oct. 1; Gaz. vol. 183; p. 149.
Baker, Reuben C., Coalinga, Cal. Anchor for well-tubing. No. 1,023,292; Apr. 16; Sp. p. 3310; Gaz. vol. 177; p. 591.
Baker, Reuben C., Coalinga, Cal. Cement-retainer. No. 1,035,674; Aug. 13; Gaz. vol. 181; p. 460.
Baker, Reuben C., Coalinga, Cal. Packer for oil or Artesian wells. No. 1,037,850; Sept. 10; Gaz. vol. 182; p. 257.
Baker, Rolah A., Rice, La. Grading-machine. No. 1,026,018; May 14; Sp. p. 2015; Gaz. vol. 178; p. 348.
Baker Sewing Machines Trust Limited. (See Baker and Jacobs, assignors.)
Baker, Thomas, Marysville, Wash. Window-screen. No. 1,042,380; Oct. 29; Gaz. vol. 183; p. 1040.
Baker, Thomas T., Cricklewood, England. Phototelegraphy. No. 1,026,297; May 14; Sp. p. 2656; Gaz. vol. 178; p. 445.
Baker, Walter, Acorn, Oreg. Graphophone-record album. No. 1,032,644; July 16; Gaz. vol. 180; p. 704.
Baker, Walter C. (See Brush and Baker.)
Baker, Walter D., Indianapolis, Ind. Adjustable atomizer. No. 1,036,540; Aug. 27; Gaz. vol. 181; p. 830.
Baker, Willard D., Rogers, Ark. Automatic door-operating mechanism. No. 1,029,255; June 11; Sp. p. 2569; Gaz. vol. 179; p. 435.
Baker, William, Youngstown, Ohio. Sieve-purifier. No. 1,032,104; July 9; Gaz. vol. 180; p. 475.
Baker, William, Birmingham, England. Ejecting mechanism for drop-down small-arms. No. 1,035,940; Aug. 20; Gaz. vol. 181; p. 588.
Baker, William A., Toledo, Ohio. Grate-protector. No. 1,044,970; Nov. 19; Gaz. vol. 184; p. 731.
Baker, William H., Bridgeport, Conn. Warp stop-motion. No. 1,026,941; May 21; Sp. p. 4116; Gaz. vol. 178; p. 701.
Baker, William H., Bridgeport, Conn. Dam and hydraulic-power transmitter. No. 1,042,381; Oct. 29; Gaz. vol. 183; p. 1040.
Baker, William V., Richmond Hill, N. Y. Safety-razor. No. 1,013,360; Jan. 2; Sp. p. 599; Gaz. vol. 174; p. 95.
Bakke, George A., Stanley, N. D. Driving-pulley. No. 1,040,993; Oct. 15; Gaz. vol. 183; p. 512.
Balazs, Charles. (See Koesis and Balazs.)
Balazs, John, Michel, British Columbia, Canada. Hat-pin-point protector. No. 1,023,710; Apr. 16; Sp. p. 4124; Gaz. vol. 177; p. 723.
Balazs, John, assignor of one-fourth to U. Mihalj, one-fourth to G. Hekkel, and one-fourth to M. Balint, Michel, British Columbia, Canada. Folding box. No. 1,017,367; Feb. 13; Sp. p. 2510; Gaz. vol. 175; p. 426.
Balazs, John, assignor of one-fourth to U. Mihalj, one-fourth to M. Balint, and one-fourth to G. Hekkel, Michel, British Columbia, Canada. Safety elevator device. No. 1,023,711; Apr. 16; Sp. p. 4124; Gaz. vol. 177; p. 724.
Balazs, John, assignor of one-fourth to U. Mihalj, one-fourth to M. Balint, and one-fourth to G. Hekkel, Michel, British Columbia, Canada. Tire for vehicle-wheels. No. 1,023,712; Apr. 16; Sp. p. 4125; Gaz. vol. 177; p. 724.
Balbach, Michael, Wilkes-Barre, Pa. Header for gas-meters. No. 1,019,119; Mar. 5; Sp. p. 245; Gaz. vol. 176; p. 39.
Balbo-Bertone, Alfonso, Crescentino, Italy. Agricultural machine. No. 1,046,940; Dec. 10; Gaz. vol. 185; p. 436.
Balch, Reuben E., Long Island, Ala., assignor of one-half to J. T. Thomasson, Chattanooga, Tenn. Animal-shoeing apparatus. No. 1,022,399; Apr. 9; Sp. p. 1352; Gaz. vol. 177; p. 248.
Balchin Schulz & Company. (See Bynoe, Frederick O., assignor.)

Alphabetical list of patentees—Continued.

Balcom, Charles, Beverly, Mass., assignor to H. F. Sommer, Newark, N. J. Sewed shoe. No. 1,030,268; June 18; Sp. p. 4790; Gaz. vol. 179; p. 823.

Balcom, Charles, Beverly, Mass., assignor to H. F. Sommer, Newark, N. J. Making sewed shoes. No. 1,030,269; June 18; Sp. p. 4792; Gaz. vol. 179; p. 823.

Baldassarre, Federico. (See Gesualdo and Baldassarre.)

Baldauf, Gustav, Augsburg, and E. Presser, Berlin, Germany, assignors to General Electric Company. Arc-lamp. No. 1,023,293; Apr. 16; Sp. p. 3312; Gaz. vol. 177; p. 592.

Balder, Fritz J., F. J. Lawson, and A. C. Davis, assignors to American Manufacturing Concern, Falconer, N. Y. Varnishing-machine. No. 1,036,419; Aug. 20; Gaz. vol. 181; p. 756.

Balder, Fritz J., F. J. Lawson, and A. C. Davis, assignors to American Manufacturing Concern, Falconer, N. Y. Drying-rack. No. 1,036,420; Aug. 20; Gaz. vol. 181; p. 757.

Balderston, Henry L., Philadelphia, Pa. Thermometer. No. 1,014,800; Jan. 16; Sp. p. 3809; Gaz. vol. 174; p. 648.

Balding, Robert F., and H. P. Garland, Los Angeles, Cal. Combination spring-cushion-tire wheel. No. 1,047,485; Dec. 17; Gaz. vol. 185; p. 657.

Baldry, George F., assignor of one-half to F. W. Barnes, Chicago, Ill. Watchman's clock. No. 1,045,497; Nov. 26; Gaz. vol. 184; p. 944.

Baldus, Anton, Frankfort-on-the-Main, Germany. Apparatus for measuring the viscosity of liquids. No. 1,021,229; Mar. 26; Sp. p. 4729; Gaz. vol. 176; p. 864.

Baldwin, Charles E., assignor of one-fourth to E. C. Smith, Gillett, Wis. Car-stake holder. No. 1,028,836; June 4; Sp. p. 1649; Gaz. vol. 179; p. 257.

Baldwin, Charles W., Washington, D. C. Automatic railway block system. No. 1,047,486; Dec. 17; Gaz. vol. 185; p. 658.

Baldwin Company, The. (See Gally, Robert A., assignor.)

Baldwin, Emerson F., Philadelphia, Pa. Sole-protector for boots and shoes. No. 1,017,727; Feb. 20; Sp. p. 3258; Gaz. vol. 175; p. 584.

Baldwin, Frank H., Ticonderoga, N. Y. Hose-clamp. No. 1,030,151; June 18; Sp. p. 4522; Gaz. vol. 179; p. 781.

Baldwin Garment Company. (See Baldwin, William C. P., assignor.)

Baldwin, Henry G., San Francisco, Cal. Elastic wheel. No. 1,032,730; July 16; Gaz. vol. 180; p. 735.

Baldwin, John, Ottawa, Kans. Apparatus for reclaiming land. No. 1,034,675; Aug. 6; Gaz. vol. 181; p. 91.

Baldwin Locomotive Works, The. (See Austin, William L., assignor.)

Baldwin Locomotive Works, The. (See Ehle, Archibald H., assignor.)

Baldwin Locomotive Works, The. (See Henderson, George R., assignor.)

Baldwin Locomotive Works, The. (See Hobson, Walter, assignor.)

Baldwin Locomotive Works, The. (See Hodges, William S., assignor.)

Baldwin Locomotive Works, The. (See Stover, Harmon E., assignor.)

Baldwin Locomotive Works, The. (See Vauclain and Henderson, assignors.)

Baldwin Locomotive Works, The. (See Vauclain and Hodges, assignors.)

Baldwin, Lucy E., Bridgman, Mich. Combined coat and hat rack. No. 1,020,791; Mar. 19; Sp. p. 3803; Gaz. vol. 176; p. 666.

Baldwin, Luther C., Providence, R. I. Bobbin-boring machine. No. 1,036,060; Aug. 20; Gaz. vol. 181; p. 629.

Baldwin, Priscilla F., Wooster, Ohio. Preparing food products. No. 1,019,411; Mar. 5; Sp. p. 951; Gaz. vol. 176; p. 139.

Baldwin, Scott. (See Craun and Baldwin.)

Baldwin, Thomas J., Vale, S. D. Axle-leveling device. No. 1,035,843; Aug. 20; Gaz. vol. 181; p. 555.

Baldwin, Townsend B., Edgewater Park, N. J. Combination wheel and carrying chair. No. 1,030,635; June 25; Sp. p. 5800; Gaz. vol. 179; p. 994.

Baldwin, William A., Haiku, Maui, Hawaii. Treating pineapples for canning. No. 1,039,350; Sept. 24; Gaz. vol. 182; p. 823.

Baldwin, William C. P., assignor to Baldwin Garment Company, Holyoke, Mass. Reversible and adjustable garment. No. 1,038,821; Sept. 17; Gaz. vol. 182; p. 626.

Baldwin, William C. P., assignor to Baldwin Garment Company, Holyoke, Mass. Woman's reversible-front house-dress. No. 1,039,632; Sept. 24; Gaz. vol. 182; p. 922.

Baldwin, William C. P., assignor to Baldwin Garment Company, Holyoke, Mass. Garment. No. 1,046,941; Dec. 10; Gaz. vol. 185; p. 436.

Baldwin, William D., Hummelstown, Pa. Railway-switch. No. 1,037,409; Sept. 3; Gaz. vol. 182; p. 78.

Baldwin, William G., assignor to S. A. Stewart, Pittsburgh, Pa. Loose-leaf binder. No. 1,032,804; July 16; Gaz. vol. 180; p. 759.

Baldwin, William T., Troy, N. Y., assignor to The Atwood Machine Co., Stonington, Conn. Spool cut-out for spooling-machines. No. 1,025,558; May 7; Sp. p. 1017; Gaz. vol. 178; p. 157.

Bale, William, Tooting, England. Electrically-controlled igniting device. No. 1,034,951; Aug. 6; Gaz. vol. 181; p. 184.

Bales, William H., Farmland, Ind. Cement vault. No. 1,023,118; Apr. 16; Sp. p. 2928; Gaz. vol. 177; p. 531.

Balezos, Nick. (See Psareas and Balezos.)

Balhorn, Hans. (See Schmidt, Rössner, and Balhorn.)

Balhorn, Rudolph, Breslau, Germany. Soap-filling machine. No. 1,028,658; June 4; Sp. p. 1283; Gaz. vol. 179; p. 197.

Baling, John G., assignor of one-tenth to H. Steiner, Baltimore, Md. Nut-lock. No. 1,046,139; Dec. 3; Gaz. vol. 185; p. 117.

Baling Tie Buckle Co. (See Evans, John L., assignor.)

Balint, John, Cincinnati, Ohio. Electric rat-trap. No. 1,024,967; Apr. 30; Sp. p. 6934; Gaz. vol. 177; p. 1219.

Balint, John, Cincinnati, Ohio. Electrocuting device. No. 1,045,662; Nov. 26; Gaz. vol. 184; p. 1004.

Balint, Mandi, *et al.* (See Balazs, John, assignor.)

Balkema, Charles E., La Fayette, Ind., assignor to H. H. Bliss, trustee, Washington, D. C. Corn-harvesting machine. No. 1,015,281; Jan. 23; Sp. p. 4831; Gaz. vol. 174; p. 837.

Balkema, John, La Fayette, Ind. Egg-tester. No. 1,046,370; Dec. 3; Gaz. vol. 185; p. 199.

Ball, Albert, assignor to Sullivan Machinery Company, Claremont, N. H. Channeling-machine. No. 1,015,258; Jan. 16; Sp. p. 4772; Gaz. vol. 174; p. 803.

Ball, Arthur P. (See Warsaw and Ball.)

Ball, Birtley A., Molalla, Oreg. Ellipsograph. No. 1,048,126; Dec. 24; Gaz. vol. 185; p. 906.

Ball, Charles A., Philadelphia, Pa., assignor to Warren Webster & Co., Camden, N. J. Operating steam-heating systems. No. 1,024,546; Apr. 30; Sp. p. 6031; Gaz. vol. 177; p. 1071.

Ball, Charles A., Philadelphia, Pa., assignor to Warren Webster & Company. Steam-heating system. No. 1,024,547; Apr. 30; Sp. p. 6036; Gaz. vol. 177; p. 1072.

Ball, Charles F., New York, assignor to Ball & Jewell, Brooklyn, N. Y. Feed-hopper. No. 1,014,280; Jan. 9; Sp. p. 2647; Gaz. vol. 174; p. 441.

Ball, Charles W. (See Moodie and Ball.)

Ball, Edgar F., San Francisco, Cal. Flap-pasting device. No. 1,044,334; Nov. 12; Gaz. vol. 184; p. 481.

Ball, Harold, Ball, Kans. Adjustable stub-hounds for wagon-tongues. No. 1,028,659; June 4; Sp. p. 1285; Gaz. vol. 179; p. 198.

Ball, Harold H., New York, N. Y. Coupling for metal hose. No. 1,044,335; Nov. 12; Gaz. vol. 184; p. 481.

Ball, Henry P., Pittsfield, Mass., assignor to General Electric Company. Electric heater. No. 1,021,230; Mar. 26; Sp. p. 4730; Gaz. vol. 176; p. 864.

Ball, Henry P., Pittsfield, Mass., assignor to General Electric Company. Electric water-heater. No. 1,034,952; Aug. 6; Gaz. vol. 181; p. 185.

Ball, Henry P., Pittsfield, Mass., assignor to General Electric Company. Automatic flat-iron. No. 1,041,720; Oct. 22; Gaz. vol. 183; p. 790.

Ball, Henry P., New York, N. Y., assignor to Holland Development Company. Mechanical musical instrument. No. 1,043,501; Nov. 5; Gaz. vol. 184; p 164.

Ball & Jewell. (See Ball, Charles F., assignor.)

Ball, Samuel C., Chicago, Ill. Tool for vacuum-cleaners. No. 1,038,517; Sept. 17; Gaz. vol. 182; p. 519.

Ball, Thomas H. (See Lloyd, Edwin M., assignor.)

Ball, Walter, Boston, Mass., assignor of one-half to J. F. Cooley, New York, N. Y. Rotary engine. No. 1,041,721; Oct. 22; Gaz. vol. 183; p. 790.

Ball, Walter D., Philadelphia, Pa. Poison-bottle stopper. No. 1,044,726; Nov. 19; Gaz. vol. 184; p. 647.

Ball, William, Wilkes-Barre, Pa. Cable-releasing device. No. 1,016,386; Feb. 6; Sp. p. 331; Gaz. vol. 175; p. 53.

Ball, William D., and J. G. Bradburn, Houston, Tex. Cotton-picker. No. 1,035,300; Aug. 13; Gaz. vol. 181; p. 333.

Ballamy, John F. (See Middleton, Keefer, and Ballamy.)

Ballard, Charles R., Midway, Pa. Valve. No. 1,022,171; Apr. 2; Sp. p. 890; Gaz. vol. 177; p. 142.

Ballard, Clare. (See Ballard, George and C.)

Ballard, George and C., Pontiac, Mich. Extension bed and spring. No. 1,035,765; Aug. 13; Gaz. vol. 181; p. 491.

Ballard, George L. (See Wildman and Ballard.)

Ballard, Harrie A., Ashland, assignor, by mesne assignments, to The Boylston Manufacturing Company, Boston, Mass. Machine for tacking shoes. No. 1,015,931; Jan. 30; Sp. p. 6243; Gaz. vol. 174; p. 1088.

Ballard, Harrie A., Ashland, assignor to The Boylston Manufacturing Company, Boston, Mass. Pulling-over machine. No. 1,015,932; Jan. 30; Sp. p. 6246; Gaz. vol. 174; p. 1088.

Ballard, Harrie A., Boston, assignor to The Boylston Manufacturing Company, South Boston, Mass. Last. No. 1,020,677; Mar. 19; Sp. p. 3557; Gaz. vol. 176; p. 626.

Alphabetical list of patentees—Continued.

Ballard, Harry E., Holyoke, assignor to Coburn Trolley Track Manufacturing Company, Willimansett, Mass. Switch for I-beam trolley-tracks. No. 1,026,239; May 14; Sp. p. 2539; Gaz. vol. 178; p. 425.
Ballard, Harry E., assignor to Coburn Trolley Track Manufacturing Company, Holyoke, Mass Switching device for overhead trolleys. No. 1,032,368; July 16; Gaz. vol. 180; p. 611.
Ballard, Taylor O. (See Fleming and Ballard.)
Ballard, Thomas H., Durango, Colo. Hydrant. No. 1,044,336; Nov. 12; Gaz. vol. 184; p. 481.
Ballard, Virgil, Plantersville, Miss. Scrubbing-machine. No. 1,028,527; June 4; Sp. p. 1014; Gaz vol. 179; p. 154.
Ballard, William V. (See Sweet and Ballard.)
Balliett, Howard H., Pittsburgh, Pa., assignor to J. H. Parker, Cliftondale, Mass. Conduit. No. 1,029,040; June 11; Sp. p. 2116; Gaz. vol. 179; p. 364.
Ballinger, Bert A., Los Angeles, Cal. Truck. No. 1,024,469; Apr. 23; Sp. p. 5806; Gaz. vol. 177; p. 1009.
Balloco, Alberto, Turin, Italy. Service-motor operated by liquid for controlling mechanisms. No. 1,047,146; Dec. 17; Gaz. vol. 185; p. 535.
Ballou, Edward P., Magnolia, Mass. Wedge. No. 1,034,860; Aug. 6; Gaz. vol. 181; p. 155.
Ballou, Eugene, Toledo, Ohio. Rotary valve. No. 1,018,386; Feb. 20; Sp. p. 4755; Gaz. vol. 175; p. 814.
Ballow, Charles E., Los Angeles, Cal. Filter. No. 1,048,384; Dec. 24; Gaz. vol. 185; p. 992.
Bally, Jean, Grenoble, France. Steam-boiler working as an electric transformer. No. 1,040,994; Oct. 15; Gaz. vol. 183; p. 512.
Bally, Oscar. (See Boner and Bally.)
Bally, Oscar, Mannheim, assignor to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Anthracene dye and making same. No. 1,016,604; Feb. 6; Sp. p. 862; Gaz. vol. 175; p. 129.
Bally, Oscar, Mannheim, assignor to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Halogenated vat dyes and making same. No. 1,026,621; May 14; Sp. p. 3354; Gaz. vol. 178; p. 553.
Bally, Oscar, Mannheim, assignor to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Anthracene dye and making same. No. 1,037,410; Sept. 3; Gaz. vol. 182; p. 78.
Balog, George, Perth Amboy, N. J. Hat-pin-point protector. No. 1,020,394; Mar. 19; Sp. p. 2935; Gaz. vol. 176; p. 533.
Baloian, Nazareth, New York, N. Y. Pane-fastener. No. 1,017,196; Feb. 13; Sp. p. 2150; Gaz. vol. 175; p. 368.
Bals, Charles A., assignor to Corwin Telephone Manufacturing Company, Chicago, Ill. Bank of keys. No. 1,033,859; July 30; Gaz. vol. 180; p. 1175.
Bals, Charles A., Chicago, Ill., assignor to Corwin Telephone Manufacturing Company. Telephony. No. 1,040,635; Oct. 8; Gaz. vol. 183; p. 361.
Bals, Charles A., Chicago, Ill., assignor to Corwin Telephone Manufacturing Company. Telephony. No. 1,040,636; Oct. 8; Gaz. vol. 183; p. 361.
Balston, Clyde C., assignor to A. Barker, New York, N. Y. Dumb-bell and the like. No. 1,019,584; Mar. 5; Sp. p. 1295; Gaz. vol. 176; p. 194.
Baltimore Gas Appliance and Manufacturing Company, The. (See Longfellow, Martin W., assignor.)
Baltimore Gas Appliance and Manufacturing Company, The. (See Longfellow and Hunter, assignors.)
Baltimore Optical Company. (See Persohn, Frank A., assignor.)
Baltrusch, Wilhelm, Elberfeld, Germany. Ignition apparatus. No. 1,029,256; June 11; Sp. p. 2571; Gaz. vol. 179; p. 436.
Baltz, Joseph M. (See Spink and Baltz.)
Baltz, Louis J., Buffalo, N. Y. Suction-tube for hydraulic dredging-machines. No. 1,024,664; Apr. 30; Sp. p. 6308; Gaz. vol. 177; p. 1112.
Baltz, Louis J., Buffalo, N. Y. Suction-tube for hydraulic dredging-machines. No. 1,027,095; May 21; Sp. p. 4478; Gaz. vol. 178; p. 755.
Baltzer, August R., Milwaukee, Wis., assignor of two-thirds to C. H. Crawford, Chicago, Ill. Method and apparatus for constructing concrete buildings. No. 1,035,766; Aug. 13; Gaz. vol. 181; p. 491.
Baltzer, August R., Milwaukee, Wis., assignor of one-half to C. H. Crawford, Chicago, Ill. Constructing concrete buildings. No. 1,035,826; Aug. 13; Gaz. vol. 181; p. 512.
Baltzley, Edwin, Glen Echo, Md., assignor, by mesne assignments, to V. I. Richard, Washington, D. C. Desk. No. 1,028,424; June 4; Sp. p. 792; Gaz. vol. 179; p. 120.
Balzano, Peter, New Haven, Conn. Cue-tip. No. 1,046,371; Dec. 3; Gaz. vol. 185; p. 199.
Bambeck, Edward, Canton, Ohio, assignor to American Sign Company, Kalamazoo, Mich. Sign. No. 1,030,449; June 25; Sp. p. 5204; Gaz. vol. 179; p. 926.
Bambeck, Edward, Canton, assignor to American Sign Company, Kalamazoo, Mich. Sign. No. 1,046,536; Dec. 10; Gaz. vol. 185; p. 296.
Bamberger, Alfred P., New Cumberland, and G. Porter, New Market, Pa. Stocking-turner. No. 1,039,477; Sept. 24; Gaz. vol. 182; p. 867.
Bamberger, Alfred P., New Cumberland, and G. Porter, New Market, assignors of one-fourth to W. M. Smith and one-fourth to F. N. Burns, New Cumberland, Pa. Splice-plate for rails. No. 1,029,166; June 11; Sp. p. 2381; Gaz. vol. 179; p. 405.
Bamford, Cyril J. (See Bamford, Joseph and C. J.)
Bamford, Joseph, Uttoxeter, England. Potato-digging machine. No. 1,020,247; Mar. 12; Sp. p. 2645; Gaz. vol. 176; p. 449.
Bamford, Joseph and C. J., Uttoxeter, England. Swath-turner or hay-collector. No. 1,047,147; Dec. 17; Gaz. vol. 185; p. 535.
Bammer, Pius, Ashland, Oreg. Lid-lifter. No. 1,018,546; Feb. 27; Sp. p. 5182; Gaz. vol. 175; p. 901.
Bammer, Pius, Ashland, Oreg. Anvil for hook-setting machines. No. 1,035,141; Aug. 13; Gaz. vol. 181; p. 276.
Bammer, Pius, Grants Pass, Oreg. Hook-setting machine. No. 1,035,140; Aug. 13; Gaz. vol. 181; p. 276.
Ban, Tokusei, Tokyo, Japan. Obtaining pure tungstic acid. No. 1,049,193; Dec. 31; Gaz. vol. 185; p. 1309.
Banahan, James T. (See Pangratz, George C., assignor.)
Bancroft, Charles A., Norfolk, Va. Wrench. No. 1,032,871; July 16; Gaz. vol. 180; p. 781.
Bancroft, George, Oldham, England. Ring-spinning and ring-doubling machine. No. 1,048,273; Dec. 24; Gaz. vol. 185; p. 954.
Bancroft, John S., and M. C. Indahl, assignors to Lanston Monotype Machine Company, Philadelphia, Pa. Stop-bar. No. 1,024,491; Apr. 30; Sp. p. 5880; Gaz. vol. 177; p. 1052.
Bancroft, John S., and M. C. Indahl, assignors to Lanston Monotype Machine Company, Philadelphia, Pa. Type casting and composing machine. No. 1,024,492; Apr. 30; Sp. p. 5882; Gaz. vol. 177; p. 1052.
Bancroft, John S., and M. C. Indahl, assignors to Lanston Monotype Machine Company, Philadelphia, Pa. Control mechanism for type casting and composing machines. No. 1,042,382; Oct. 29; Gaz. vol. 183; p. 1041.
Bancroft, Louis F., Hartford, Conn. Aeroplane. No. 1,030,764; June 25; Sp. p. 6118; Gaz. vol. 179; p. 1039.
Bancroft, William M., New Orleans, La. Bearing for mill-rolls. No. 1,023,355; Apr. 16; Sp. p. 3428; Gaz. vol. 177; p. 612.
Bandemer, Charles W., Chicago, Ill. Brick-clamp. No. 1,041,949; Oct. 22; Gaz. vol. 183; p. 871.
Bane, James O., Waseca, Minn. Counteracting device for pumps. No. 1,029,580; June 18; Sp. p. 3275; Gaz. vol. 179; p. 583.
Bane, Nathan. (See Chambers and Bane.)
Banfield, Edwin F. (See Bavier and Banfield.)
Bangs, Edwin D., assignor of one-half to W. Finger, Milwaukee, Wis. Rod-packing. No. 1,034,953; Aug. 6; Gaz. vol. 181; p. 185.
Banish, William J., and J. C. Swarthout, Valley City, N. D. Time-clock. No. 1,042,867; Oct. 29; Gaz. vol. 183; p. 1213.
Banister, Charles, Waco, Tex. Apparatus for solidifying cotton-batting preparatory for pressing and baling. No. 1,025,503; May 7; Sp. p. 885; Gaz. vol. 178; p. 138.
Bank, Adolf, Essen-Ruhr-West, Germany. Boring and drilling machine. No. 1,018,153; Feb. 20; Sp. p. 4279; Gaz. vol. 175; p. 735.
Bank, Edward C., Berkeley, assignor to Benicia Iron Works, San Francisco, Cal. Adjustable plow-tongue. No. 1,030,450; June 25; Sp. p. 5207; Gaz. vol. 179; p. 926.
Banke, Alfred C., Dayton, Ohio. Scraper. No. 1,044,473; Nov. 19; Gaz. vol. 184; p. 558.
Banker, Frank E. (See Guyon and Banker.)
Banker, John R. (See Van Sant and Banker.)
Banks, Charles E., Elmhurst, N. Y. Friction-clutch. No. 1,043,290; Nov. 5; Gaz. vol. 184; p 86.
Banks, Homer S., Salina, Kans. Horizontal wind-motor. No. 1,035,844; Aug. 20; Gaz. vol. 181; p. 555.
Banks, Joseph E., Pittsburgh, Pa. Building-brick and facing-tile therefor. No. 1,032,105; July 9; Gaz. vol. 180; p. 475.
Banks, Samuel F. (See Hutchison and Banks.)
Banks, Theodore H., San Antonio, Tex. Vehicle-tire. No. 1,024,431; Apr. 23; Sp. p. 5710; Gaz. vol. 177; p. 994.
Banks, William I. (See Hoaker and Banks.)
Bannard, Robert, *et al.* (See La May, Arthur C., assignor.)
Banner, John E., Mount Airy, N. C. Stage-dagger. No. 1,016,727; Feb. 6; Sp. p. 1114; Gaz. vol. 175; p. 171.
Banner Motors Limited. (See Robb and Welch, assignors.)
Banner, Otto, Sterkrade, Germany. Apparatus for regulating turbines driven by live and exhaust steam. No. 1,015,415; Jan. 23; Sp. p. 5143; Gaz. vol. 174; p. 883.
Banner, Otto, Sterkrade, Germany. Valve-gear for steam-turbines. No. 1,029,786; June 18; Sp. p. 3727; Gaz. vol. 179; p. 656.
Banner, Otto, Sterkrade, Germany, assignor to Ingersoll-Rand Company, New York, N. Y. Journal-box for rotary blowers. No. 1,044,971; Nov. 19; Gaz. vol. 184; p. 731.

Alphabetical list of patentees—Continued.

Banner, Otto, Easton, Pa., assignor to Ingersoll-Rand Company, New York, N. Y. Turbine. No. 1,035,142; Aug. 13; Gaz. vol. 181; p. 276.
Bannerman, George, *et al.* (See Callicott, John, assignor.)
Bannister, John C., Kewanee, Ill. Method of and apparatus for making sand molds. No. 1,034,334; July 30; Gaz. vol. 180; p. 1341.
Bannister, John C., Kewanee, Ill. Method of and apparatus for making cores. No. 1,034,335; July 30; Gaz. vol. 180; p. 1342.
Bannister, John C., Kewanee, Ill. Method of and apparatus for making molds and cores. No. 1,034,336; July 30; Gaz. vol. 180; p. 1342.
Bannister, Maunsel C. J., Dublin, Ireland. Apparatus for producing blocks or coatings of ice. No. 1,013,470; Jan. 2; Sp. p. 830; Gaz. vol. 174; p. 133.
Bannister, Maunsel C. J., Dublin, Ireland. Forming ice. No. 1,044,972; Nov. 19; Gaz. vol. 184; p. 731.
Bannon, Patrick R., Joliet, Ill. Conveying apparatus. No. 1,030,451; June 25; Sp. p. 5208; Gaz. vol. 179; p. 927.
Banowetz, Mike, Coffeyville, Kans. Lawn-mower. No. 1,049,194; Dec. 31; Gaz. vol. 185; p. 1309.
Banscher, August P., Milan, Ill. Cornstalk-cutter. No. 1,048,641; Dec. 31; Gaz. vol. 185; p. 1119.
Banta, Len A., Ligonier, Ind. Minnow-pail. No. 1,039,633; Sept. 24; Gaz. vol. 182; p. 922.
Banta, Samuel, and B. L. Stowe, assignors to Eureka Fire Hose Manufacturing Company, Jersey City, N. J. Air-purifying inhaler attachment. No. 1,013,722; Jan. 2; Sp. p. 1391; Gaz. vol. 174; p. 218.
Banta, William, assignor to The Hammond Typewriter Co., New York, N. Y. Card-holding attachment for type-writing machines. No. 1,034,381; July 30; Gaz. vol. 180; p. 1359.
Bantom, Joseph I., Chicago, Ill. Milk-bottle holder. No. 1,022,223; Apr. 2; Sp. p. 993; Gaz. vol. 177; p. 160.
Banzett, William H., Bergenfield, N. J., assignor to American Lithographic Company, New York, N. Y. Printing-cylinder. No. 1,049,195; Dec. 31; Gaz. vol. 185; p. 1309.
Banzhof, Charles P., assignor to B. G. and C. F. Stauffer and L. W. Horting, Lancaster, Pa. Electric-motor drive mechanism. No. 1,033,519; July 23; Gaz. vol. 180; p. 1036.
Baracs, Henry. (See Klell, Albert, assignor.)
Barbalicz, Laurancz, Cleveland, Ohio. Hat-pin-point protector. No. 1,018,290; Feb. 20; Sp. p. 4552; Gaz. vol. 175; p. 781.
Barbanson, Gaston, and M. Lepersonne, Brussels, Belgium. Open-hearth process of refining steel. No. 1,030,152; June 18; Sp. p. 4523; Gaz. vol. 179; p. 781.
Barbarou, Marius, assignor to Societe Anonyme des Automobiles Delaunay-Belleville, St.-Denis, France. Hydraulic change-speed gear. No. 1,044,846; Nov. 19; Gaz. vol. 184; p. 688.
Barbeau, Malcolm L., assignor to The S. Howes Company, Silver Creek, N. Y. Scouring-machine. No. 1,013,526; Jan. 2; Sp. p. 951; Gaz. vol. 174; p. 153.
Barbee, John, *et al.* (See Lamar, Alexis L., assignor.)
Barbee, William, *et al.* (See Lamar, Alexis L., assignor.)
Barber, Alpha H., Leipsic, Ohio. Trousers stretcher and creaser. No. 1,031,511; July 2; Gaz. vol. 180; p. 230.
Barber Car Company. (See Barber, Edward A., assignor.)
Barber, Carl E. (See Richmond and Barber.)
Barber, Claire S., Waterville, Conn. Guard for vehicles. No. 1,015,774; Jan. 30; Sp. p. 5911; Gaz. vol. 174; p. 1035.
Barber, Clarence A., Des Moines, Iowa. Safety appliance for flying-machines. No. 1,019,014; Mar. 5; Sp. p. 5; Gaz. vol. 176; p. 3.
Barber-Colman Company. (See Colman, Howard D., assignor.)
Barber-Colman Company. (See Mathewson, Stanley B., assignor.)
Barber-Colman Company. (See Peterson, Burt A., assignor.)
Barber, Edward A., assignor to Barber Car Company, York, Pa. Fluid-pressure brake for railway-cars. No. 1,040,846; Oct. 8; Gaz. vol. 183; p. 429.
Barber, Ernest B., Brooklyn, assignor, by mesne assignments, to International Typesetting Machine Company, New York, N. Y. Type casting and composing machine. No. 1,028,660; June 4; Sp. p. 1286; Gaz. vol. 179; p. 198.
Barber, Franklin L., and E. W. Webb, assignors to Standard Car Truck Company, Chicago, Ill. Car-truck. No. 1,039,883; Oct. 1; Gaz. vol. 183; p. 72.
Barber, Harry C., assignor to The New Haven Electrical Mfg. Co., North Haven, Conn. Electrical fitting. No. 1,016,728; Feb. 6; Sp. p. 1115; Gaz. vol. 175; p. 171.
Barber, Hiram, Chicago, Ill. Draft device. No. 1,042,523; Oct. 29; Gaz. vol. 183; p. 1093.
Barber, Howard M., Stonington, Conn., assignor to C. B. Cottrell & Sons Company, New York, N. Y. Cutting and folding machine. No. 1,013,919; Jan. 9; Sp. p. 1847; Gaz. vol. 174; p. 317.
Barber, Howard M., Stonington, Conn., assignor to C. B. Cottrell & Sons Company, New York, N. Y. Slip-sheet-feeding device for printing-presses. No. 1,027,516; May 28; Sp. p. 5332; Gaz. vol. 178; p. 934.
Barber, Howard M., Stonington, Conn., assignor to C. B. Cottrell & Sons Company, New York, N. Y. Slip-sheet-feeding device for printing-presses. No. 1,027,582; May 28; Sp. p. 5474; Gaz. vol. 178; p. 957.
Barber, Howard M., Stonington, Conn., assignor to C. B. Cottrell & Sons Company, New York, N. Y. Bed-motion for printing-presses. No. 1,033,370; July 23; Gaz. vol. 180; p. 988.
Barber, Howard M., Stonington, Conn., assignor to C. B. Cottrell & Sons Company, New York, N. Y. Forming stereotype-plates. No. 1,033,371; July 23; Gaz. vol. 180; p. 988.
Barber, Howard M., Stonington, Conn., assignor to C. B. Cottrell & Sons Company, New York, N. Y. Machine for casting stereotype-plates. No. 1,033,372; July 23; Gaz. vol. 180; p. 989.
Barber, Jason A. (See Duquett, Maxim A., assignor.)
Barber, John C., assignor to Standard Car Truck Company, Chicago, Ill. Car-truck. No. 1,014,362; Jan. 9; Sp. p. 2845; Gaz. vol. 174; p. 470.
Barber, John C., assignor to Standard Car Truck Company, Chicago, Ill. Roller-bearing. No. 1,016,469; Feb. 6; Sp. p. 532; Gaz. vol. 175; p. 82.
Barber, John C., assignor to Standard Car Truck Company, Chicago, Ill. Car construction. No. 1,031,163; July 2; Gaz. vol. 180; p. 111.
Barber, John C., assignor to Standard Car Truck Company, Chicago, Ill. Car-truck. No. 1,036,541; Aug. 27; Gaz. vol. 181; p. 830.
Barber, John C., assignor to Standard Car Truck Company, Chicago, Ill. Roller-bearing center plate. No. 1,038,822; Sept. 17; Gaz. vol. 182; p. 626.
Barber, John C., assignor to Standard Car Truck Company, Chicago, Ill. Roller-bearing device for car-trucks. No. 1,044,847; Nov. 19; Gaz. vol. 184; p. 689.
Barber, John C., assignor to Standard Car Truck Company, Chicago, Ill. Car-truck. No. 1,044,848; Nov. 19; Gaz. vol. 184; p. 689.
Barbey, Camille, Geneva, Switzerland. Starting device for engines. No. 1,013,723; Jan. 2; Sp. p. 1394; Gaz. vol. 174; p. 219.
Barbey, Francis A., *et al.* (See McManama, John W., assignor.)
Barbezat, Alfred, Lesquin, near Lille, France. Device to balance thrust in turbines. No. 1,030,153; June 18; Sp. p. 4524; Gaz. vol. 179; p. 782.
Barbier, André. (See Koetschet and Barbier.)
Barbour, Charles S., Jr., Rockford, Ill. Fastening device. No. 1,031,317; July 2; Gaz. vol. 180; p. 166.
Barbour, George H. (See Stoddard and Barbour.)
Barbour, James, Stamps, Ark., assignor of one-half to W. B. Boggs, Plain Dealing, La. Shingle-making machine. No. 1,013,724; Jan. 2; Sp. p. 1398; Gaz. vol. 174; p. 219.
Barbour, James A., Johannesburg, Transvaal. Valve. No. 1,024,876; Apr. 30; Sp. p. 6750; Gaz. vol. 177; p. 1188.
Barbour, James A., Johannesburg, Transvaal. Valve. No. 1,024,877; Apr. 30; Sp. p. 6751; Gaz. vol. 177; p. 1188.
Barbour, James G., assignor to The Metropolitan Paving Brick Company, Canton, Ohio. Brick. No. 1,038,823; Sept. 17; Gaz. vol. 182; p. 627.
Barbour, John F., assignor to The Dean Electric Company, Elyria, Ohio. Telephone-receiver shell. No. 1,029,524; June 11; Sp. p. 3147; Gaz. vol. 179; p. 528.
Barbour, William, Glasgow, Scotland. Core for resilient objects. No. 1,031,671; July 2; Gaz. vol. 180; p. 285.
Barbre, Thomas J., and J. G. Trefz, Denver, Colo., assignors to Western Machinery & Manufacturing Company. Rock-drill. No. 1,044,337; Nov. 12; Gaz. vol. 184; p. 482.
Barcalo Manufacturing Company. (See Rogers, Frank R., assignor.)
Barcalo Manufacturing Company. (See Vallone, Charles, assignor.)
Barcalo Manufacturing Company. (See Vallone and Rogers, assignors.)
Barclay, George, Avonmore, Pa. Joint-chair. No. 1,025,044; Apr. 30; Sp. p. 7077; Gaz. vol. 177; p. 1244.
Barclay, Samuel M. T., Dubois, Pa. Nut-lock. No. 1,019,215; Mar. 5; Sp. p. 462; Gaz. vol. 176; p. 73.
Barclay, William P., Chicago, Ill. Centrifugal cream-separator. No. 1,020,248; Mar. 12; Sp. p. 2646; Gaz. vol. 176; p. 449.
Barclay, William R., and A. Bates, Leicester, England, assignors to United Shoe Machinery Company, Paterson, N. J. Heel-building machine. No. 1,028,528; June 4; Sp. p. 1016; Gaz. vol. 179; p. 154.
Barcus, George N, Wabash, Ind. Hinge. No. 1,047,148; Dec. 17; Gaz. vol. 185; p. 536.
Bard, Charles H., Mount Vernon, N. Y. Adjustable telephone-instrument-locking device. No. 1,042,188; Oct. 22; Gaz. vol. 183; p. 949.
Bard, Jacob W., Peoria, assignor to Sangamo Electric Company, Springfield, Ill. Long-distance pressure-recorder. No. 1,028,851; June 11; Sp. p. 1690; Gaz. vol. 179; p. 296.

Alphabetical list of patentees—Continued.

Bard, Mervin C. (See Headley and Bard.)
Barder, Byron R., Akron, Ohio. Vulcanizer. No. 1,044,474; Nov. 19; Gaz. vol. 184; p. 558.
Bardill, John O., Herculaneum, Mo. Apparatus for separating dross from molten lead. No. 1,013,635; Jan. 2; Sp. p. 1182; Gaz. vol. 174; p. 188.
Bardo, Fred J., Buffalo, N. Y. Check-valve. No. 1,038,518; Sept. 17; Gaz. vol. 182; p. 519.
Bardsley, James, Akron, Ohio. Devulcanizing apparatus. No. 1,039,010; Sept. 17; Gaz. vol. 182; p. 689.
Barefoot, James L. (See Pickens, Davis A., assignor.)
Baren, Eugene, *et al.* (See Eytalis, Charles, assignor.)
Barenz, Henry O., Jackson, Wis. Speed-governor. No. 1,017,126; Feb. 13; Sp. p. 1999; Gaz. vol. 175; p. 344
Barger, Levi S. (See Phillips and Barger.)
Barham, Thomas M., *et al.* (See Tatum, Franklin M., assignor.)
Baring-Gould, William D., Minneapolis, Minn. Advertising-card. No. 1,041,573; Oct. 15; Gaz. vol. 183; p. 705.
Barion, Christian O., San Francisco, Cal. Pressure-controlled means for hydrocarbon-burners. No. 1,040,973; Oct. 8; Gaz. vol. 183; p. 472.
Barker, Alfred. (See Barker, James, A., and J. P.)
Barker, Alfred, assignor to J. Barker, Philadelphia, Pa. Hair-drier. No. 1,015,121; Jan. 16; Sp. p. 4505; Gaz. vol. 174; p. 758.
Barker, Anthony. (See Balston, Clyde C., assignor.)
Barker, Donald, executor. (See Mytton, Richard G. V.).
Barker, England J. (See La Barr, Frank B., assignor.)
Barker, England J., Morgan Park, Ill. Autographic register. No. 1,033,146; July 23; Gaz. vol. 180; p. 912.
Barker, England J., Morgan Park, Ill. Autographic register. No. 1,038,824; Sept. 17; Gaz. vol. 182; p. 627.
Barker, England J., Morgan Park, Ill. Autographic register. No. 1,046,426; Dec. 10; Gaz. vol. 185; p. 255.
Barker, England J., Morgan Park, Ill. Autographic register. No. 1,046,719; Dec. 10; Gaz. vol. 185; p. 362.
Barker, Frederic A. (See Barker, John L. and F. A.)
Barker, Frederic R., Boston, Mass. Wheel-rim. No. 1,020,678; Mar. 19; Sp. p. 3559; Gaz. vol. 176; p. 626.
Barker, George H., Los Angeles, Cal. Game-counter. No. 1,019,015; Mar. 5; Sp. p. 7; Gaz. vol. 176; p. 4.
Barker, James. (See Barker, Alfred, assignor.)
Barker, James, A., and J. P., Philadelphia, Pa., assignors to said James Barker. Chair-arm. No. 1,036,421; Aug. 20; Gaz. vol. 181; p. 757.
Barker, James, A., and J. P., Philadelphia, Pa. Chair. No. 1,048,274; Dec. 24; Gaz. vol. 185; p. 954.
Barker, James F., Philadelphia, Pa. Wave-motor. No. 1,020,340; Mar. 12; Sp. p. 2812; Gaz. vol. 176; p. 477.
Barker, John, Chicago, Ill. Folding steel square. No. 1,043,502; Nov. 5; Gaz. vol. 184; p. 165.
Barker, John, assignor of one-half to L. S. and P. A. Lathrop, Oceanpark, Cal. Bathing-car. No. 1,032,581; July 16; Gaz. vol. 180; p. 681.
Barker, John C., Leeds, England. Outer cover for pneumatic tires. No. 1,021,816; Apr. 2; Sp. p. 141; Gaz. vol. 177; p. 24.
Barker, John L., Racine, Wis., and F. A. Barker, Toledo, Ohio. Starting mechanism for internal-combustion engines. No. 1,030,799; June 25; Sp. p. 6227; Gaz. vol. 179; p. 1052.
Barker, Joseph C., Oblong, Ill. Mole-trap. No. 1,031,229; July 2; Gaz. vol. 180; p. 134.
Barker, Joseph P. (See Barker, James, A., and J. P.)
Barker, Lee, Maricopa, Cal. Trap. No. 1,027,974; May 28; Sp. p. 6336; Gaz. vol. 178; p. 1087.
Barker, Walter G., New York, assignor to S. Sternau & Company, Brooklyn, N. Y. Beverage-shaker. No. 1,042,751; Oct. 29; Gaz. vol. 183; p. 1173.
Barker, Walter S., Cambridge, Mass. Clasp. No. 1,019,016; Mar. 5; Sp. p. 8; Gaz. vol. 176; p. 4.
Barker, Wendell A., Chicago, Ill. Multiple hoist. No. 1,022,349; Apr. 2; Sp. p. 1243; Gaz. vol. 177; p. 199.
Barker, Wendell A., Chicago, Ill. Mechanical movement. No. 1,033,776; July 30; Gaz. vol. 180; p. 1145.
Barkers, Nicholas G., Chicago, Ill. Soldering-iron stove. No. 1,027,096; May 21; Sp. p. 4481; Gaz. vol. 178; p. 756.
Barkstrom, Charles E., Chicago, Ill. Dust-proof reed-pipe. No. 1,037,378; Sept. 3; Gaz. vol. 182; p. 135.
Barlach, Hans, Charkow, Russia. Water-tube sectional boiler. No. 1,030,452; June 25; Sp. p. 5211; Gaz. vol. 179; p. 927.
Barlow Company. (See Gill, George C., assignor.)
Barlow, George F., Tucker, Ga. Toy carousel. No. 1,047,149; Dec. 17; Gaz. vol. 185; p. 536.
Barlow, Vaness O., and J. Holman, Carney, Mich. Derrick. No. 1,024,665; Apr. 30; Sp. p. 6311; Gaz. vol. 177; p. 1112.
Barmore, E. H. (See Dale, Albert C., assignor.)
Barna, Joseph W., Chicago, Ill., assignor of one-half to Boston Machine Works Company, Lynn, Mass. Cementing and snipping machine. No. 1,016,387; Feb. 6; Sp. p. 355; Gaz. vol. 175; p. 53.
Barna, Joseph W., Chicago, Ill., assignor of one-half to Boston Machine Works Company, Lynn, Mass. Cementing apparatus. No. 1,030,377; June 25; Sp. p. 5050; Gaz. vol. 179; p. 901.
Barnaba, James E., Douglas, Ill. Ticket-handler. No. 1,028,661; June 4; Sp. p. 1294; Gaz. vol. 178; p. 198.
Barnard, Davis, Los Angeles, Cal. Feed-nozzle for carbureters. No. 1,014,202; Jan. 9; Sp. p. 2456; Gaz. vol. 174; p. 413.
Barnard, Davis, Los Angeles, Cal. Carbureter. No. 1,027,459; May 28; Sp. p. 5216; Gaz. vol. 178; p. 915.
Barnard, Davis, Los Angeles, Cal. Means for regulating the temperature of air fed to carbureters. No. 1,032,582; July 16; Gaz. vol. 180; p. 681.
Barnard and Leas Manufacturing Company. (See Cornwall, John B., assignor.)
Barnard, Therides V., Schaller, Iowa. Soil pulverizer and leveler. No. 1,032,041; July 9; Gaz. vol. 180; p. 454.
Barnard, Walter E., Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 1,022,766; Apr. 9; Sp. p. 2180; Gaz. vol. 177; p. 374.
Barnard, Walter E., Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 1,041,722; Oct. 22; Gaz. vol. 183; p. 791.
Barnard, Walter E., Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 1,041,723; Oct. 22; Gaz. vol. 183; p. 791.
Barnebey, Charlie M., Mullen, Nebr. Seed-potato cutter. No. 1,030,154; June 18; Sp. p. 4526; Gaz. vol. 179; p. 782.
Barnes, Adolphus F., St. Joseph, Mo. Bed-jack. No. 1,046,720; Dec. 10; Gaz. vol. 185; p. 362.
Barnes, Alfred A., Harrison, Idaho. Saw-handle. No. 1,035,675; Aug. 13; Gaz. vol. 181; p. 461.
Barnes, Charles K., Pearce, Ariz. Vacuum filtering-machine. No. 1,036,174; Aug. 20; Gaz. vol. 181; p. 670.
Barnes, Claude A., assignor of one-half to J. A. Birchim, Rolling Prairie, Ind. Freight-car door. No. 1,032,266; July 9; Gaz. vol. 180; p. 530.
Barnes, Cornelius A., Missoula, Mont. Collar and tie retainer. No. 1,036,422; Aug. 20; Gaz. vol. 181; p. 757.
Barnes, Edward M., assignor to Advance M'f'g. Co., Hastings, Mich. Electric motor. No. 1,034,408; Aug. 6; Gaz. vol. 181; p. 3.
Barnes, Edward M., assignor to Advance M'f'g Co., Hastings, Mich. Vacuum-cleaner. No. 1,045,931; Dec. 3; Gaz. vol. 185; p. 46.
Barnes, Edward M., assignor to The Mercantile Supply Company, Cleveland, Ohio. Pneumatic cleaner. No. 1,047,487; Dec. 17; Gaz. vol. 185; p. 658.
Barnes, Elvis L., Hobart, Okla. Bale-tie buckle. No. 1,046,537; Dec. 10; Gaz. vol. 185; p. 297.
Barnes, Erastus H., and E. C. Thorschmidt, New York, N. Y. Machine for corrugating, cutting up, and driving strips of metal into wood. No. 1,039,478; Sept. 24; Gaz. vol. 182; p. 868.
Barnes, Eri E., Parkers, N. Y. Polishing-machine. No. 1,016,198; Jan. 30; Sp. p. 6783; Gaz. vol. 174; p. 1179.
Barnes, Francis W. (See Baldry, George F., assignor.)
Barnes, Frank A., Boone, Iowa. Stock food. No. 1,033,860; July 30; Gaz. vol. 180; p. 1175.
Barnes, Frederick W., assignor to Eastman Kodak Company, Rochester, N. Y. Photographic-plate rack. No. 1,045,663; Nov. 26; Gaz. vol. 184; p. 1004.
Barnes, George F., and W. A. Suttle, Freestone, Tex. Spring-wheel. No. 1,044,973; Nov. 19; Gaz. vol. 184; p. 732.
Barnes, Howard T., Montreal, Quebec, Canada. Method of and apparatus for recording marine conditions. No. 1,022,526; Apr. 9; Sp. p. 1632; Gaz. vol. 177; p. 290.
Barnes, John, Rockford, Ill. Truss. No. 1,033,147; July 23; Gaz. vol. 180; p. 912.
Barnes, John A. (See Hammond and Barnes.)
Barnes, John G., Harrogate, England. Detachable heel. No. 1,019,585; Mar. 5; Sp. p. 1296; Gaz. vol. 176; p. 194.
Barnes, John R., Oskaloosa, Iowa. Holder for lighted cigars. No. 1,017,197; Feb. 13; Sp. p. 2153; Gaz. vol. 175; p. 368.
Barnes, John S., assignor to W. F. & John Barnes Company, Rockford, Ill. Variable-speed gearing. No. 1,024,818; Apr. 30; Sp. p. 6630; Gaz. vol. 177; p. 1167.
Barnes, Joseph L., Des Moines, Iowa. Tire-protector. No. 1,016,812; Feb. 6; Sp. p. 1291; Gaz. vol. 175; p. 198.
Barnes, Lambert E., Greenwood, Miss. Swingletree. No. 1,025,045; Apr. 30; Sp. p. 7077; Gaz. vol. 177; p. 1244.
Barnes, Nathan M., Minneapolis, Minn. Window-ventilator. No. 1,038,825; Sept. 17; Gaz. vol. 182; p. 627.
Barnes, Oscar O., Colley, Pa. Saw-handle. No. 1,033,979; July 30; Gaz. vol. 180; p. 1218.
Barnes, Pierre, Seattle, Wash. Water-heater or steam-generator. No. 1,027,975; May 28; Sp. p. 6338; Gaz. vol. 178; p. 1088.
Barnes, Pierre, Seattle, Wash. Car for monorailways. No. 1,044,727; Nov. 19; Gaz. vol. 184; p. 647.
Barnes, Pierre, assignor to International Monorail Co., Seattle, Wash. Truck for monorailway-cars. No. 1,043,793; Nov. 12; Gaz. vol. 184; p. 294.
Barnes, Pierre, assignor to International Monorail Co., Seattle, Wash. Monorail-car. No. 1,043,794; Nov. 12; Gaz. vol. 184; p. 294.

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Barnes, Thomas H., Crawfordsville, Iowa. Pail-protector. No. 1,023,982; Apr. 23; Sp. p. 4748; Gaz. vol. 177; p. 842.
Barnes, Walter D., Salt Lake City, Utah. Trunk-fastener. No. 1,024,054; Apr. 23; Sp. p. 4896; Gaz. vol. 177; p. 867.
Barnes, Walter E., Malden, Mass. Valve. No. 1,019,747; Mar. 12; Sp. p. 1606; Gaz. vol. 176; p. 281.
Barnes, William, San Francisco, Cal. Internal-combustion rotary engine. No. 1,018,953; Feb. 27; Sp. p. 6020; Gaz. vol. 175; p. 1038.
Barnes, William O., Philadelphia, Pa. Internal-combustion engine. No. 1,048.482; Dec. 31; Gaz. vol. 185; p. 1063.
Barnes, Willis A., and R. W. Jamieson, New York, N. Y. Ball-caster. No. 1,016,813; Feb. 6; Sp. p. 1293; Gaz. vol. 175; p. 198.
Barnett, Allen R. (See Logan and Barnett.)
Barnett, Carl P. (See Eubank and Barnett.)
Barnett, Chester H., Lincoln, Nebr. Music-leaf turner. No. 1,033,656; July 23; Gaz. vol. 180; p. 1081.
Barnett, Clarence W., Clarksburg, W. Va. Collapsible drinking-cup. No. 1,032,731; July 16; Gaz. vol. 180; p. 735.
Barnett. George W., Chicago, Ill. Rack for rubber stamps. No. 1,039,634; Sept. 24; Gaz. vol. 182; p. 922.
Barnett, John B., assignor of one-half to J. W. Davis, Fort Worth, Tex. Rapid-transit car. No. 1,030,274; June 25; Sp. p. 4812; Gaz. vol. 179; p. 862.
Barnett, John E. (See Haven, Alonzo, assignor.)
Barnett, John S., Central Point, Oreg. Fruit-picker's receptacle. No. 1,029,581; June 18; Sp. p. 3276; Gaz. vol. 179; p. 583.
Barnett, Samuel, Tipton, assignor to J. D. Griffin, London, England. Clencher-tire-retaining device. No. 1,049,287; Dec. 31; Gaz. vol. 185; p. 1341.
Barnett, Thomas K., Shelby, N. C. Seed and grain separator. No. 1,023,983; Apr. 23; Sp. p. 4750; Gaz. vol. 177; p. 843.
Barnette, Joseph, Oswego, N. Y. Grindstone. No. 1,049,037; Dec. 31; Gaz. vol. 185; p. 1257.
Barnewolt, Ora A. (See Schmidgall and Barnewolt.)
Barney, Edwin E., assignor to The Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 1,025,669; May 7; Sp. p. 1252; Gaz. vol. 178; p. 193.
Barney, Frank P., Chartley, Mass. Front for articles of jewelry. No. 1,024,055; Apr. 23; Sp. p. 4897; Gaz. vol. 177; p. 868.
Barney, Louis D., Chicago, Ill. Lawn-sprinkling system. No. 1,046,427; Dec. 10; Gaz. vol. 185; p. 256.
Barney, William H., Albuquerque, N. Mex. Train-order-pad holder. No. 1,038,713; Sept. 17; Gaz. vol. 182; p. 588.
Barnhart, Frank, Spokane, Wash. Wood-splitting machine. No. 1,020,072; Mar. 12; Sp. p. 2265; Gaz. vol. 176; p. 390.
Barnhart, Lloyd W., Middle Point, Ohio. Hay-loading device. No. 1,030,155; June 18; Sp. p. 4527; Gaz. vol. 179; p. 782.
Barnhart, Robert L., Charleroi, Pa. Electrically-operated animal-trap. No. 1,020,341; Mar. 12; Sp. p. 2815; Gaz. vol. 176; p. 477.
Barnsdall, Theodore N., 2d. (See Connors and Barnsdall.)
Barnstead, Robert P., Boston, Mass. Sterilizer. No. 1,039,243; Sept. 24; Gaz. vol. 182; p. 786.
Barnum, Dana D., Worcester, Mass. Generating gas. No. 1,039,479; Sept. 24; Gaz. vol. 182; p. 868.
Barnum, Thomas E., Milwaukee, Wis. Motor-controller. No. 1,027,796; May 28; Sp. p. 5898; Gaz. vol. 178; p. 1026.
Barnum, Thomas E., assignor to The Cutler-Hammer Manufacturing Company, Milwaukee, Wis. Motor-controlling device. No. 1,016,059; Jan. 30; Sp. p. 6521; Gaz. vol. 174; p. 1134.
Barnum, Thomas E., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Motor-controller. No. 1,016,060; Jan. 30; Sp. p. 6526; Gaz. vol. 174; p. 1134.
Barnum, Thomas E., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Motor-controller. No. 1,016,470; Feb. 6; Sp. p. 534; Gaz. vol. 175; p. 82.
Barnum, Thomas E., assignor to The Cutler-Hammer Manufacturing Company, Milwaukee, Wis. Circuit-breaker. No. 1,018,547; Feb. 27; Sp. p. 5184; Gaz. vol. 175; p. 902.
Barnum, William T., Chicago, Ill. Flash-light apparatus. No. 1,027,167; May 21; Sp. p. 4627; Gaz. vol. 178; p. 777.
Baron, John, El Centro, Cal. Wheeled scraper. No. 1,018,954; Feb. 27; Sp. p. 6023; Gaz. vol. 175; p. 1039.
Baron, Morris, Boston, Mass. Table. No. 1,039,070; Sept. 17; Gaz. vol. 182; p. 706.
Barone, Anthony, Mount Morris, N. Y. Mold for concrete walls. No. 1,021,443; Mar. 26; Sp. p. 5196; Gaz. vol. 176; p. 940.
Baroody, Assad M., Richmond, Va. Bottle-capping machine. No. 1,024,493; Apr. 30; Sp. p. 5884; Gaz. vol. 177; p. 1052.
Barr, Archibald, and W. Stroud, Glasgow, Scotland. Range-finder. No. 1,018,548; Feb. 27; Sp. p. 5187; Gaz. vol. 175; p. 902.
Barr, Archibald, Glasgow, Scotland, and W. Stroud, Leeds, England. Single-observer range-finder. No. 1,019,412; Mar. 5; Sp. p. 952; Gaz. vol. 176; p. 139.
Barr, Archibald, and W. Stroud, Anniesland, Glasgow, Scotland. Optical instrument. No. 1,031,769; July 9; Gaz. vol. 180; p. 362.
Barr, Charles D., assignor of one-half to W. C. Katzenstein, Omaha, Nebr. Egg-tray. No. 1,026,551; May 14; Sp. p. 3201; Gaz. vol. 178; p. 529.
Barr, Daniel M., Philadelphia, Pa. Preserve-jar. No. 1,048,483; Dec. 31; Gaz. vol. 185; p. 1064.
Barr, Frederic, New York, N. Y. Interlocking tubular construction. No. 1,040.257; Oct. 8; Gaz. vol. 183; p. 226.
Barr, Frederic, New York, N. Y. Locking device for lamp-socket shells. No. 1,042,383; Oct. 29; Gaz. vol. 183; p. 1041.
Barr, George, La Center, Wash. Clamp-truck. No. 1,022,812; Apr. 9; Sp. p. 2272; Gaz. vol. 177; p. 388.
Barr, George, Pittsburgh, Pa. Spike-machine. No. 1,024,666; Apr. 30; Sp. p. 6312; Gaz. vol. 177; p. 1113.
Barr, George, Hamilton, Ontario, Canada. Spike-machine. No. 1,025,670; May 7; Sp. p. 1254; Gaz. vol. 178; p. 194.
Barr, George F., New York, N. Y. Safety-holder for bottles, jars, and other receptacles. No. 1,026,485; May 14; Sp. p. 3078; Gaz. vol. 178; p. 507.
Barr, Greeley, Preston, Minn. Fly-trapping device. No. 1,035,845; Aug. 20; Gaz. vol. 181; p. 556.
Barr, James H. (See Schupp and Barr.)
Barr, John H., Kansas City, Mo. Cylinder printing-press. (Reissue.) No. 13,469; Oct. 1; Gaz. vol. 183; p. 196.
Barr, John H., assignor to The Smith Premier Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 1,013,920; Jan. 9; Sp. p. 1850; Gaz. vol. 174; p. 317.
Barr, John H., assignor to The Smith Premier Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 1,016,061; Jan. 30; Sp. p. 6529; Gaz. vol. 174; p. 1135.
Barr, John H., Syracuse, assignor to Union Typewriter Company, Ilion, N. Y. Type-writing machine. No. 1,016,540; Feb. 6; Sp. p. 723; Gaz. vol. 175; p. 106.
Barr, John H., Syracuse, assignor to Remington Typewriter Company, Ilion, N. Y. Type-writing machine. No. 1,016,927; Feb. 13; Sp. p. 1536; Gaz. vol. 175; p. 273.
Barr, John M., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electrical apparatus. No. 1,013,108; Jan. 2; Sp. p. 23; Gaz. vol. 174; p. 7.
Barr, Mark. (See Twisleton-Wykeham-Fiennes and Barr.)
Barranger, Joseph E., Philadelphia, Pa. Jar-closure. No. 1,046,942; Dec. 10; Gaz. vol. 185; p. 436.
Barratt, Alfred A., Claygate, England. Nostril-distending apparatus. No. 1,034,566; Aug. 6; Gaz. vol. 181; p. 56.
Barratt, William T., assignor to A. J. and A. Cooper and C. S. Kehoe, Bennington, Vt., executors of Charles Cooper, deceased, Bennington, Vt. Circular-knitting machine. No. 1,013,471; Jan. 2; Sp. p. 832; Gaz. vol. 174; p. 133.
Barrett Adding Machine Company. (See Barrett, Glenn J., assignor.)
Barrett, Charles W., San Jose, Cal. Vehicle-wheel. No. 1,034,382; July 30; Gaz. vol. 180; p. 1359.
Barrett, Clinton H., New York, N. Y. Commode. No. 1,025,114; May 7; Sp. p. 1; Gaz. vol. 178; p. 3.
Barrett, Darius N., deceased, Detroit, Mich.; L. E. Grant, administrator. Safety-razor. No. 1,033,373; July 23; Gaz. vol. 180; p. 989.
Barrett, Ernest D., and I. B. Wood, New York, N. Y., assignors, by mesne assignments, to said I. B. Wood. Valve mechanism. No. 1,013,725; Jan. 2; Sp. p. 1400; Gaz. vol. 174; p. 220.
Barrett, George F., Ridgefield Park, N. J. Fountain-pen. No. 1,038,068; Sept. 10; Gaz. vol. 182; p. 332.
Barrett, Glenn J., assignor to Barrett Adding Machine Company, Grand Rapids, Mich. Transfer mechanism for calculating-machines. No. 1,017,843; Feb. 20; Sp. p. 3564; Gaz. vol. 175; p. 625.
Barrett, Glenn J., assignor to Barrett Adding Machine Company, Grand Rapids, Mich. Calculating-machine. No. 1,023,235; Apr. 16; Sp. p. 3193; Gaz. vol. 177; p. 571.
Barrett, Glenn J., Grand Rapids, Mich., assignor, by mesne assignments, to Union Typewriter Company, Jersey City, N. J. Type-writing machine. No. 1,021,817; Apr. 2; Sp. p. 142; Gaz. vol. 177; p. 25.
Barrett, H. A. (See Auble, James H. and J. L., assignors.)
Barrett, Halsey M., *et al.*, receivers. (See Fessenden, Reginald A., assignor.)
Barrett, Harvey N. (See Newberry and Barrett.)
Barrett, James G., Hatton, assignor of one-half to F. P. Hutchison, Mena, Ark. Lamp-burner attachment. No. 1,013,921; Jan. 9; Sp. p. 1856; Gaz. vol. 174; p. 318.
Barrett, John G., *et al.* (See Richardson, William A., assignor.)
Barrett, Joseph M., Fostoria, Ohio. Chain-lubricating device. No. 1,042,996; Oct. 29; Gaz. vol. 183; p. 1256.

Alphabetical list of patentees—Continued.

Barrett & Lawrence. (See Eaton, Emery W., assignor.)
Barrett Manufacturing Company. (See Cowdery, Arthur B., assignor.)
Barrett, Richard E., Boykins, Va. Whiffletree. No. 1,014,034; Jan. 9; Sp. p. 2122; Gaz. vol. 174; p. 355.
Barrett, Richard E., Boykins, Va. Horse-releasing device. No. 1,021,297; Mar. 26; Sp. p. 4864; Gaz. vol. 176; p. 888.
Barrett, Thomas J., Bordentown, N. J. Road composition and making the same. No. 1,039,884; Oct. 1; Gaz. vol. 183; p. 72.
Barrett, Timothy R., Bordentown, N. J. Apparatus for athletic and theatrical purposes. No. 1,016,729; Feb. 6; Sp. p. 1116; Gaz. vol. 175; p. 171.
Barrett, William W. (See Hughes, Albert M., assignor.)
Barrick, Christopher C., assignor to The Union Metal Manufacturing Company, Canton, Ohio. Column. No. 1,023,119; Apr. 16; Sp. p. 2929; Gaz. vol. 177; p. 531.
Barricklow, Irvin E., Antioch, Cal. Safety-fuse. No. 1,020,249; Mar. 12; Sp. p. 2648; Gaz. vol. 176; p. 449.
Barrickman, Sylvester A., and J. C. Holt; said Barrickman assignor of one-third to A. L. Craig and V. H. Odell, Richwood, W. Va. Shaft-level. No. 1,018,863; Feb. 27; Sp. p. 5842; Gaz. vol. 175; p. 1008.
Barrie, Charles E., Brattleboro, Vt. Corn-husking machine. No. 1,019,586; Mar. 5; Sp. p. 1299; Gaz. vol. 176; p. 195.
Barringer, Alvin, Walton, N. Y. Lumber-wagon. No. 1,044,849; Nov. 19; Gaz. vol. 184; p. 689.
Barringer, Lawrence E., Schenectady, N. Y., assignor to General Electric Company. Resistance unit. No. 1,026,377; May 14; Sp. p. 2853; Gaz. vol. 178; p. 472.
Barringer, Lawrence E., and G. Wright, Schenectady, N. Y., assignors to General Electric Company. Inclosed-fuse indicator. No. 1,014,741; Jan. 16; Sp. p. 3679; Gaz. vol. 174; p. 628.
Barringer, Stephen L., Winston Salem, N. C. Trolley wheel and switch. No. 1,035,767; Aug. 13; Gaz. vol. 181; p. 492.
Barron, Miles K., Coffeyville, Kans. Bolt-clipper. No. 1,024,432; Apr. 23; Sp. p. 5712; Gaz. vol. 177; p. 994.
Barron, Miles K., Coffeyville, Kans. Wheel-tire bolter. No. 1,028,662; June 4; Sp. p. 1295; Gaz. vol. 179; p. 198.
Barron, Walter J., New York, assignor to Remington Typewriter Company, Ilion, N. Y. Type-writing machine. No. 1,017,844; Feb. 20; Sp. p. 3567; Gaz. vol. 175; p. 626.
Barron, Walter J., New York, N. Y., assignor, by mesne assignments, to Union Typewriter Company, Jersey City, N. J. Type-writing machine. No. 1,023,796; Apr. 23; Sp. p. 4289; Gaz. vol. 177; p. 779.
Barron, Walter J., New York, N. Y., assignor, by mesne assignments, to Union Typewriter Company, Jersey City, N. J. Type-writing machine. No. 1,025,046; Apr. 30; Sp. p. 7078; Gaz. vol. 177; p. 1245.
Barron, Walter J., New York, N. Y., assignor, by mesne assignments, to Union Typewriter Company, Jersey City, N. J. Type-writing machine. No. 1,030,453; June 25; Sp. p. 5213; Gaz. vol. 179; p. 928.
Barron, Walter J., New York, N. Y., assignor to Union Typewriter Company, Jersey City, N. J. Type-writing machine. No. 1,042,868; Oct. 29; Gaz. vol. 183; p. 1214.
Barrow, John, Columbiana, Ohio. Steam-boiler. No. 1,034,337; July 30; Gaz. vol. 180; p. 1342.
Barrows, Arad T. (See Olson and Barrows.)
Barrows, Donald S., Paterson, N. J., assignor to American Car and Foundry Company, St. Louis, Mo. Door-operating device. No. 1,042,384; Oct. 29; Gaz. vol. 183; p. 1042.
Barrows, Webster, Malden, and H. L. Moreau, Boston, Mass. Making copies of certain objects in solid material. No. 1,020,679; Mar. 19; Sp. p. 3562; Gaz. vol. 176; p. 627.
Barrus, George H., Brookline, Mass. Meter for steam, air, or other gases. No. 1,047,911; Dec. 24; Gaz. vol. 185; p. 835.
Barry, Henry, Chicago, Ill. Food-slicer. No. 1,013,361; Jan. 2; Sp. p. 600; Gaz. vol. 174; p. 96.
Barry, Henry, Chicago, Ill. Liquid-filling device. No. 1,014,935; Jan. 16; Sp. p. 4124; Gaz. vol. 174; p. 695.
Barry, Richard P., and J. W. Murphy, Brooklyn, N. Y. Safety stop device. No. 1,039,687; Oct. 1; Gaz. vol. 183; p. 4.
Barry-Wehmiller Machine Company. (See Dawson, Joseph W., assignor.)
Barschall, Georg P. (See Moriz and Barschall.)
Barstow, Edwin O., assignor to The Dow Chemical Company, Midland, Mich. Manufacturing arsenate of lead. No. 1,014,742; Jan. 16; Sp. p. 3680; Gaz. vol. 174; p. 628.
Barstow, George E. (See Rietzel and Barstow.)
Barstow, Welch, and S. K. Bradford, Palo Alto, Cal.; said Barstow assignor of one one-hundredth to said Bradford and forty-nine one-hundredths to B. B. S. Manufacturing Company. Carbureter for internal-combustion engines. No. 1,049,038; Dec. 31; Gaz. vol. 185; p. 1257.
Barstow, William R., Oakland, Cal. Puncture-repairer. No. 1,048,385; Dec. 24; Gaz. vol. 185; p. 993.
Bart, Henri, Paris, France. Nut-lock. No. 1,038,479; Sept. 10; Gaz. vol. 182; p. 472.
Bartec, Stanko. (See Strba, Michal, assignor.)
Bartel, Otto, New York, N. Y. Torch. No. 1,023,610; Apr. 16; Sp. p. 3950; Gaz. vol. 177; p. 693.
Bartell Improved Shirt Company. (See Bartell, Reinhold, assignor.)
Bartell, Reinhold, Newark, N. J., assignor to Bartell Improved Shirt Company, New York, N. Y. Shirt. No. 1,029,336; June 11; Sp. p. 2762; Gaz. vol. 179; p. 465.
Bartels, Dierichs & Co., Gesellschaft mit beschränkter Haftung. (See Holzrichter, Ferdinand, assignor.)
Bartels, Victor J., *et al.* (See Crosbie, Daniel L., assignor.)
Bartelt, William, *et al.* (See Robinson, Clark, assignor.)
Barter, Frank, Fitchburg, Mass. Tool holder and ejector. No. 1,040,258; Oct. 8; Gaz. vol. 183; p. 226.
Barter, John D., assignor of one-half to M. Barter, New York, N. Y. Attachment for phonographs and like machines. No. 1,023,544; Apr. 16; Sp. p. 3803; Gaz. vol. 177; p. 671.
Barter, Mary. (See Barter, John D., assignor.)
Barth, Arthur von, New York, N. Y. Counting-machine. No. 1,046,428; Dec. 10; Gaz. vol. 185; p. 256.
Barth, Eli B., Upper Sandusky, Ohio. Feed-trough. No. 1,046,943; Dec. 10; Gaz. vol. 185; p. 437.
Barth, John W., Pittsburgh, Pa. Sanding device. No. 1,027,517; May 28; Sp. p. 5335; Gaz. vol. 178; p. 934.
Barth, Luther B., Tiffin, Ohio. Fertilizer-distributer. No. 1,033,297; July 23; Gaz. vol. 180; p. 964.
Barthel, Frederick, assignor to F. E. Wadsworth, Detroit, Mich. Carbureter. No. 1,026,425; May 14; Sp. p. 2945; Gaz. vol. 178; p. 488.
Barthelemy, Edward N. (See White and Barthelemy.)
Bartholomae, William, New York, assignor to H. Zimmerman, Brooklyn, N. Y. Musical toy. No. 1,024,878; Apr. 30; Sp. p. 6752; Gaz. vol. 177; p. 1188.
Bartholomew, G. E., *et al.* (See Schorndorfer, Edward F., assignor.)
Bartholomew, George W. (See Brown and Bartholomew.)
Bartholomew, James H. S., Occidental, and E. F. Heath, Santa Rosa, Cal. Aeroplane. No. 1,037,411; Sept. 3; Gaz. vol. 182; p. 79.
Bartholomew, James H. S., Occidental, and E. F. Heath, Santa Rosa, Cal. Boat, car, or carriage. No. 1,046,721; Dec. 10; Gaz. vol. 185; p. 363.
Bartholomew, William, assignor to Troy Laundry Machinery Company, Limited, Chicago, Ill. Cuff-press. No. 1,021,231; Mar. 26; Sp. p. 4731; Gaz. vol. 176; p. 865.
Bartholomew, William, assignor to Troy Laundry Machinery Company, Limited, Chicago, Ill. Dry-room hanger. No. 1,025,853; May 7; Sp. p. 1625; Gaz. vol. 178; p. 257.
Bartholomew, William, assignor to Troy Laundry Machinery Company, Limited, Chicago, Ill. Bearing for vertical drive-shafts. No. 1,028,318; June 4; Sp. p. 556; Gaz. vol. 179; p. 82.
Bartholomew, William, assignor to Troy Laundry Machinery Company, Limited, Chicago, Ill. Machine for making scoop washing-cylinders. No. 1,038,714; Sept. 17; Gaz. vol. 182; p. 588.
Bartholomew, William, assignor to Troy Laundry Machinery Company, Limited, Chicago, Ill. Cuff-press. 1,042,752; Oct. 29; Gaz. vol. 183; p. 1173.
Bartholomew, Winsor A., Ravenna, Mich. Control for aeroplanes. No. 1,048,386; Dec. 24; Gaz. vol. 185; p. 993.
Bartholow, William P., assignor to The Dobbins Manufacturing Company, Minneapolis, Minn. Combined soldering-iron and blow-torch. No. 1,024,170; Apr. 23; Sp. p. 5170; Gaz. vol. 177; p. 908.
Bartl, Franz, New York, N. Y. Spark-plug. No. 1,023,493; Apr. 16; Sp. p. 3704; Gaz. vol. 177; p. 655.
Bartlett, Amos C., Hartford, Conn., assignor to B. F. Sturtevant Company, Boston, Mass. Reversible-window-board set. No. 1,030,962; July 2; Gaz. vol. 180; p. 39.
Bartlett, Arthur L., Unadilla, N. Y. Cow-tail holder. No. 1,013,362; Jan. 2; Sp. p. 602; Gaz. vol. 174; p. 96.
Bartlett, Eugene B., Cleveland, Ohio, assignor to American Foundry and Furnace Co., Bloomington, Ill. Latrine. No. 1,019,587; Mar. 5; Sp. p. 1302; Gaz. vol. 176; p. 195.
Bartlett, Frederic A., trustee. (See Flood, John H., assignor.)
Bartlett, George H., New London, Conn. Tool-holding box. No. 1,024,388; Apr. 23; Sp. p. 5588; Gaz. vol. 177; p. 980.
Bartlett, Harry O., Caldwell, Ohio. Tire. No. 1,037,412; Sept. 3; Gaz. vol. 182; p. 79.
Bartlett, Julia H., Baltimore, Md. Paper bag. No. 1,027,168; May 21; Sp. p. 4629; Gaz. vol. 178; p. 777.
Bartlett, Kent W., Chicago, Ill. Liquid-treating apparatus. No. 1,017,729; Feb. 20; Sp. p. 3263; Gaz. vol. 175; p. 584.
Bartlett, Kent W., Chicago, Ill., assignor to Northern Water Softener Company. Apparatus for treating liquids. No. 1,017,728; Feb. 20; Sp. p. 3259; Gaz. vol. 175; p. 584.

Alphabetical list of patentees—Continued.

Bartlett, Kent W., Madison, Wis., assignor to Northern Water Softener Company. Liquid-treating apparatus. No. 1,035,301; Aug. 13; Gaz. vol. 181; p. 333.
Bartlett, Kent W., Madison, Wis., assignor to Northern Water Softener Company. Liquid-measuring apparatus. No. 1,037,413; Sept. 3; Gaz. vol. 182; p. 79.
Bartlett, Louis G., Somerville, Mass., assignor to Lamson Consolidated Store Service Company, Newark, N. J. Carrier for pneumatic-despatch-tube apparatus. No. 1,032,178; July 9; Gaz. vol. 180; p. 500.
Bartlett, Lowell A., Danville, Vt. Self-righting lamp. No. 1,023,062; Apr. 9; Sp. p. 2789; Gaz. vol. 177; p. 474.
Bartlett, Percy H., Philadelphia, Pa. Protecting device for meter connections. No. 1,036,423; Aug. 20; Gaz. vol. 181; p. 758.
Bartlett, Walter J. R., San Francisco, Cal. Means and process for producing intaglio printing-surfaces. No. 1,028,177; June 4; Sp. p. 276; Gaz. vol. 179; p. 34.
Bartlett, Walter J. R., San Francisco, Cal. Production of intaglio printing-surfaces for lithographic or aluminum printing. No. 1,038,266; Sept. 10; Gaz. vol. 182; p. 398.
Bartlett, William D., assignor to The Electric Welding Products Company, Cleveland, Ohio. Apparatus for welding by electricity. No. 1,048,642; Dec. 31; Gaz. vol. 185; p. 1119.
Bartley, Charles B., Pittsburgh, assignor of one-half to G. F. Rylands, Charleroi, Pa. Lamp-bracket. No. 1,016,730; Feb. 6; Sp. p. 1119; Gaz. vol. 175; p. 172.
Bartley, Charles B., Pittsburgh, assignor of one-half to G. F. Rylands and one-fourth to R. H. Rush, Charleroi, Pa. Storage-battery lamp. No. 1,028,984; June 11; Sp. p. 1991; Gaz. vol. 179; p. 343.
Bartley, Harvey, assignor of three-fourths to M. Bartley, Pittsburgh, Pa. Nut-lock. No. 1,034,057; July 30; Gaz. vol. 180; p. 1246.
Bartley, Harvey, assignor of three-fourths to M. Bartley, Pittsburgh, Pa. Nut-lock. No. 1,043,191; Nov. 5; Gaz. vol. 184; p. 52.
Bartley, John T., Jersey City, N. J. Coupling for electric fixtures. No. 1,017,368; Feb. 13; Sp. p. 2512; Gaz. vol. 175; p. 426.
Bartley, Milton. (See Bartley, Harvey, assignor.)
Bartmann, Samuel. St. Louis, Mo. Barrel-head fastener. No. 1,017,127; Feb. 13; Sp. p. 2,000; Gaz. vol. 175; p. 344.
Bartob, Orville D., Philadelphia, Pa. Hobby-horse. No. 1,042,308; Oct. 22; Gaz. vol. 183; p. 989.
Barton, Delbert E., deceased, Milwaukee, Wis.; J. H. Spence, administrator. Sleet-cutting trolley. No. 1,038,508; Sept. 10; Gaz. vol. 182; p. 482.
Barton, Delbert E., Racine, assignor to G. E. Rasch, Burlington, Wis. Blanket-fastener. No. 1,042,753; Oct. 29; Gaz. vol. 183; p. 1173.
Barton, John H., London, England. Prismatic telescope, theater and field glass. No. 1,016,315; Feb. 6; Sp. p. 179; Gaz. vol. 175; p. 27.
Barton, Joseph M., and P. J. Landry, Danvers, Mass., assignors to United Shoe Machinery Company, Paterson, N. J. Lasting-machine. No. 1,030,048; June 18; Sp. p. 4323; Gaz. vol. 179; p. 747.
Barton, Merle B., Peoria, Ill. Automobile curtain-support. No. 1,017,643; Feb. 20; Sp. p. 3082; Gaz. vol. 175; p. 557.
Barton, Robert B. F., Fairmount, Ind. Fence-post. No. 1,042,754; Oct. 29; Gaz. vol. 183; p. 1174.
Barton, William E., Hartford, Conn. Safety appliance. No. 1,022,119; Apr. 2; Sp. p. 778; Gaz. vol. 177; p. 123.
Barton, William W. (See Butler, Washington A., assignor.)
Bartosiewicz, Bronislaw, Glen Cove, N. Y. Cuspidor. No. 1,018,806; Feb. 27; Sp. p. 5729; Gaz. vol. 175; p. 989.
Bartoszewicz, Dominik, St. Joseph, Mich. Current-motor. No. 1,023,494; Apr. 16; Sp. p. 3706; Gaz. vol. 177; p. 656.
Bartram, Frederick A., Montreal, Quebec, Canada. Piston-valve. No. 1,046,944; Dec. 10; Gaz. vol. 185; p. 437.
Bartz, August C. F., Keystone, Wis. Spring attachment for apparel-supports. No. 1,020,473; Mar. 19; Sp. p. 3098; Gaz. vol. 176; p. 560.
Bartz, Gustav W., and H. T. Abitz, Reedsville, Wis. Cattle-stanchion. No. 1,043,390; Nov. 5; Gaz. vol. 184; p. 123.
Baruch, Morris J. (See Baruch, Samuel and M. J.)
Baruch, Samuel, New York, N. Y. Bottle-seal. No. 1,029,738; June 18; Sp. p. 3636; Gaz. vol. 179; p. 640.
Baruch, Samuel, New York, N. Y. Box-seal. No. 1,041,724; Oct. 22; Gaz. vol. 183; p. 792.
Baruch, Samuel and M. J., New York, N. Y. Disinfecting and sponging apparatus. No. 1,035,676; Aug. 13; Gaz. vol. 181; p. 461.
Bary, Henry M. B., Philadelphia, Pa. Weighing-scale. No. 1,023,495; Apr. 16; Sp. p. 3709; Gaz. vol. 177; p. 656.
Bary, Henry M. B., Philadelphia, Pa. Weighing-scale. No. 1,023,496; Apr. 16; Sp. p. 3712; Gaz. vol. 177; p. 657.
Baschkin, Johann, Kolomna, Moscow, Russia. Injector. No. 1,038,826; Sept. 17; Gaz. vol. 182; p. 628.
Bascom, Harry F., Allentown, Pa. Water-tube boiler. No. 1,035,677; Aug. 13; Gaz. vol. 181; p. 461.
Bascom, Harry F., Allentown, Pa. Water-tube boiler. (Reissue.) No. 13,501; Dec. 31; Gaz. vol. 185; p. 1355.
Baseballeon Inc. (See Previn, Arthur G., assignor.)
Baselli, Antonio, assignor to Society of Chemical Industry in Basle, Basel, Switzerland. Alkyl esters of diiodo fatty acids of high molecular weight. No. 1,024,171; Apr. 23; Sp. p. 5171; Gaz. vol. 177; p. 908.
Bash, Charles S., Jr., assignor of one-third to C. S. Bash, Sr., and one-third to W. E. Webbe, Fort Wayne, Ind. Preparing land-fertilizers. No. 1,048,454; Dec. 24; Gaz. vol. 185; p. 1016.
Bashaw, John N., Lake Geneva, Wis. Automobile shaft-coupling. No. 1,022,999; Apr. 9; Sp. p. 2654; Gaz. vol. 177; p. 453.
Bashaw, Jule S., Gainesville, Fla. Placket-fastener. No. 1,016,909; Feb. 6; Sp. p. 1496; Gaz. vol. 175; p. 231.
Bashaw, Julian S., Gainesville, Fla. Combined spring and shock-absorber for vehicles. No. 1,033,657; July 23; Gaz. vol. 180; p. 1082.
Baskin, James G. (See Cocowitch, John F., assignor.)
Basler, George, assignor to Basler Machinery Company, Lynn, Mass. Apparatus for tempering and flexing soles and the like. No. 1,036,061; Aug. 20; Gaz. vol. 181; p. 629.
Basler, George, assignor to Basler Machinery Company, Lynn, Mass. Door-check. No. 1,044,728; Nov. 19; Gaz. vol. 184; p. 647.
Basler Machinery Company. (See Basler, George, assignor.)
Bason, William H. (See Sample and Bason.)
Bass, Ernest C., and E. S. Hough, London, England. Resilient wheel. No. 1,014,558; Jan. 9; Sp. p. 3203; Gaz. vol. 174; p. 533.
Bassani, Laurent, Paris, France. Production of lithographic-printing plates. No. 1,029,337; June 11; Sp. p. 2763; Gaz. vol. 179; p. 466.
Basse, Heinrich H., Holtensen, Germany. Compound wooden plate. No. 1,015,775; Jan. 30; Sp. p. 5912; Gaz. vol. 174; p. 1035.
Basset, Gorham F., M. F. Clay, and J. J. Phare, assignors to The No-Mar Manufacturing Company, Cleveland, Ohio. Dry mop. No. 1,036,542; Aug. 27; Gaz. vol. 181; p. 830.
Bassett, Harry P., Newark, Del. Treatment of flax-straw. No. 1,046,538; Dec. 10; Gaz. vol. 185; p. 297.
Bassett, Foster W. (See Hunter and Bassett.)
Bassett, Frank F., Lawrence, N. Y. Radiator-shield. No. 1,039,480; Sept. 24; Gaz. vol. 182; p. 868.
Bassett, James E., Oshkosh, Wis. Spark-arrester for cigars. No. 1,014,436; Jan. 9; Sp. p. 2988; Gaz. vol. 174; p. 496.
Bassett, Linton T., assignor of one-fourth to S. E. Shipp and one-fourth to D. A. Osborn, Newburgh, N. Y. Aerial propeller. No. 1,046,372; Dec. 3; Gaz. vol. 185; p. 200.
Bassford, Lowell C., La Grange, Ill. Window-screen. No. 1,023,063; Apr. 9; Sp. p. 2790; Gaz. vol. 177; p. 474.
Bassford, Samuel D., Tooele, Utah. Wagon-box lift. No. 1,014,743; Jan. 16; Sp. p. 3681; Gaz. vol. 174; p. 629.
Bassick, Edgar W., assignor to The Burns & Bassick Company, Bridgeport, Conn. Spring-latch. No. 1,019,216; Mar. 5; Sp. p. 463; Gaz. vol. 176; p. 74.
Bassick, Edgar W., Bridgeport, assignor to The M. B. Schenk Co., Meriden, Conn. Caster. No. 1,022,056; Apr. 2; Sp. p. 650; Gaz. vol. 177; p. 103.
Bassick, Edgar W., and R. A. L. Adams, assignors to The Burns & Bassick Company, Bridgeport, Conn. Spring-latch. No. 1,019,217; Mar. 5; Sp. p. 464; Gaz. vol. 176; p. 74.
Bassler, Frank B. (See Culver, Edward, assignor.)
Bassler, Kurt, Berlin, Germany, assignor to General Electric Company. Machine for making sheet insulation. No. 1,040,995; Oct. 15; Gaz. vol. 183; p. 513.
Bast, Fred W. (See Hessler and Bast.)
Bastian Brothers Company. (See Herbst, Martin, assignor.)
Bastian, Charles L., assignor to Bottlers Machinery Manufacturing Company, Chicago, Ill. Bottle-filling machine. No. 1,046,048; Dec. 3; Gaz. vol. 185; p. 85.
Bastian, Charles O., London, England. Electric heater. No. 1,014,437; Jan. 9; Sp. p. 2990; Gaz. vol. 174; p. 496.
Bastian, Charles O., London, England. Means for transforming electric energy into heat. No. 1,032,267; July 9; Gaz. vol. 180; p. 531.
Bastian, William B., Chicago, Ill., assignor to W. B. Bastian Mfg. Co., Pierre, S. D. Gas water-heater. No. 1,013,581; Jan. 2; Sp. p. 1055; Gaz. vol. 174; p. 170.
Bastian, William B., Chicago, Ill., assignor to W. B. Bastian Mfg. Co., Pierre, S. D. Gas-burner. No. 1,040,986; Oct. 8; Gaz. vol. 183; p. 477.
Basting, Wilhelm A., Erbach, Germany. Violin-piano. No. 1,039,481; Sept. 24; Gaz. vol. 182; p. 869.
Batchelder, Asa F., Schenectady, N. Y., assignor to General Electric Company. Electric steam-heating system. No. 1,019,413; Mar. 5; Sp. p. 958; Gaz. vol. 176; p. 139.
Batchelder, Asa F., Schenectady, N. Y., assignor to General Electric Company. Locomotive. No. 1,026,552; May 14; Sp. p. 3202; Gaz. vol. 178; p. 529.
Batchelder, Charles A., Brockton, Mass., assignor to O. A. Miller Treeing Machine Company, Portland, Me. Shoe-form. No. 1,032,805; July 16; Gaz. vol. 180; p. 759.

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Batchelder, Frank R., Worcester, Mass. Carrier for entrenching-tools. No. 1,030,223; June 18; Sp. p. 4685; Gaz. vol. 179; p. 806.
Batchelder, J. Frank, *et al.* (See Chase, Milton, assignor.)
Batchelor, Fredrick, Peru, Ind., assignor of three-fourths to C. Y. Andrews. Fly-trap. No. 1,042,310; Oct. 22; Gaz. vol. 183; p. 990.
Batchelor, William J., Boston, Mass. Baggage-carrying attachment. No. 1,028,178; June 4; Sp. p. 278; Gaz. vol. 179; p. 35.
Batchlor, Landon, assignor of one-half to A. D. Cook, Lawrenceburg, Ind. Car-coupling. No. 1,015,533; Jan. 23; Sp. p. 5389; Gaz. vol. 174; p. 923.
Batdorf, Charles S., Brooklyn, N. Y. Moving-picture apparatus. No. 1,023,797; Apr. 23; Sp. p. 4292; Gaz. vol. 177; p. 779.
Batdorf, John W., San Jose, Cal. Airship. No. 1,031,230; July 2; Gaz. vol. 180; p. 134.
Bate, William. (See Harrison, Bate, and Perks.)
Bateman, Loftus H. (See Bateman, Richard W. and L. H.) (Reissue.)
Bateman Manufacturing Company. (See Willis, Leland, assignor.)
Bateman, Richard W. and L. H., Leeds, England. Vise. (Reissue.) No. 13,431; June 25; Sp. p. 6451; Gaz. vol. 179; p. 1075.
Bateman, Richard W. and L. H., Leeds, England. Clutch mechanism. No. 1,032,179; July 9; Gaz. vol. 180; p. 500.
Bateman, Thomas A., Spokane, Wash. Removable tooth for threshing-machine cylinders. No. 1,033,658; July 23; Gaz. vol. 180; p. 1082.
Bates, Adelmer M., assignor to Bates Valve Bag Company, Cleveland, Ohio. Bagging-machine. No. 1,017,369; Feb. 13; Sp. p. 2513; Gaz. vol. 175; p. 426.
Bates, Adelmer M., assignor to Bates Valve Bag Company, Cleveland, Ohio. Machine for filling valve-bags. No. 1,044,475; Nov. 19; Gaz. vol. 184; p. 559.
Bates, Albert A., East Highgate, Vt. Combined grass-hook, corn-knife, and pruning-saw. No. 1,021,444; Mar. 26; Sp. p. 5198; Gaz. vol. 176; p. 940.
Bates, Albert H., Cleveland, Ohio. Street-car. No. 1,020,017; Mar. 12; Sp. p. 2154; Gaz. vol. 176; p. 371.
Bates, Albert H., assignor to The American Multigraph Company, Cleveland, Ohio. Printing mechanism. No. 1,021,858; Apr. 2; Sp. p. 231; Gaz. vol. 177; p. 38.
Bates, Albert H., assignor to The American Multigraph Company, Cleveland, Ohio. Duplicating-machine. No. 1,045,498; Nov. 26; Gaz. vol. 184; p. 944.
Bates, Albert J., Chicago, Ill. Railway-tie. No. 1,042,071; Oct. 22; Gaz. vol. 183; p. 911.
Bates, Albert J., Chicago, Ill. Railway-tie fastening. No. 1,042,309; Oct. 22; Gaz. vol. 183; p. 989.
Bates, Arthur. (See Barclay and Bates.)
Bates, Arthur. (See Pride and Bates.)
Bates, Arthur, Leicester, England, assignor to United Shoe Machinery Company, Paterson, N. J. Buffing-machine. No. 1,013,726; Jan. 2; Sp. p. 1405; Gaz. vol. 174; p. 221.
Bates, Arthur, Leicester, England, assignor to United Shoe Machinery Company, Paterson, N. J. Lasting-machine. No. 1,014,632; Jan. 16; Sp. p. 3438; Gaz. vol. 174; p. 591.
Bates, Arthur, Leicester, England, assignor to United Shoe Machinery Company, Paterson, N. J. Pounding-up, leveling, or smoothing roll. No. 1,015,776; Jan. 30; Sp. p. 5912; Gaz. vol. 174; p. 1035.
Bates, Arthur, Leicester, England, assignor to United Shoe Machinery Company, Paterson, N. J. Shoe-beating machine. No. 1,016,316; Feb. 6; Sp. p. 182; Gaz. vol. 175; p. 27.
Bates, Arthur, Leicester, England, assignor to United Shoe Machinery Company, Paterson, N. J. Shoe-beating machine. No. 1,016,388; Feb. 6; Sp. p. 339; Gaz. vol. 175; p. 54.
Bates, Arthur, Leicester, England, assignor to United Shoe Machinery Company, Paterson, N. J. Machine for use in the manufacture of boots and shoes. No. 1,017,370; Feb. 13; Sp. p. 2516; Gaz. vol. 175; p. 427.
Bates, Arthur, Leicester, England, assignor to United Shoe Machinery Company, Paterson, N. J. Machine for operating upon shoes. No. 1,020,177; Mar. 12; Sp. p. 2495; Gaz. vol. 176; p. 425.
Bates, Arthur, Leicester, England, assignor to United Shoe Machinery Company, Paterson, N. J. Lasting-machine. No. 1,020,474; Mar. 19; Sp. p. 3100; Gaz. vol. 176; p. 560.
Bates, Arthur, Leicester, England, assignor to United Shoe Machinery Company, Paterson, N. J. Machine for operating upon soles. No. 1,020,533; Mar. 19; Sp. p. 3235; Gaz. vol. 176; p. 578.
Bates, Arthur, Leicester, England, assignor to United Shoe Machinery Company, Paterson, N. J. Lasting-machine. No. 1,020,631; Mar. 19; Sp. p. 3461; Gaz. vol. 176; p. 611.
Bates, Arthur, Leicester, England, assignor to United Shoe Machinery Company, Boston, Mass. Lasting-machine. No. 1,021,086; Mar. 26; Sp. p. 4409; Gaz. vol. 176; p. 818.
Bates, Arthur, Leicester, England, assignor to United Shoe Machinery Company, Paterson, N. J. Lasting-machine. No. 1,029,840; June 18; Sp. p. 3869; Gaz. vol. 179; p. 675.
Bates, Arthur, Leicester, England, assignor to United Shoe Machinery Company, Paterson, N. J. Shoe-finishing and other machine. No. 1,030,560; June 25; Sp. p. 5512; Gaz. vol. 179; p. 965.
Bates, Arthur, Leicester, England, assignor to United Shoe Machinery Company, Paterson, N. J. Press. No. 1,030,800; June 25; Sp. p. 6231; Gaz. vol. 179; p. 1053.
Bates, Arthur, Leicester, England, assignor to United Shoe Machinery Company, Paterson, N. J. Planing-machine. No. 1,032,806; July 16; Gaz. vol. 180; p. 759.
Bates, Arthur, and W. T. B. Roberts, Leicester, England, assignors to United Shoe Machinery Company, Paterson, N. J. Cementing-machine. No. 1,030,273; June 25; Sp. p. 4807; Gaz. vol. 179; p. 862.
Bates, Benjamin, assignor of one-half to M. Goldring, Belfast, Ireland. Safety device or guard for use in connection with passenger elevators or lifts. No. 1,023,611; Apr. 16; Sp. p. 3951; Gaz. vol. 177; p. 694.
Bates, Benjamin W., and A. T. C. Hale, Birmingham, England. Target. No. 1,027,371; May 21; Sp. p. 5034; Gaz. vol. 178; p. 848.
Bates, Dresser T. (See French and Bates.)
Bates, Edward T., Washington, D. C. Surface-covering. No. 1,040,117; Oct. 1; Gaz. vol. 183; p. 150.
Bates, Eugene J., San Luis Obispo, Cal. Casing-tongs. No 1,019,120; Mar. 5; Sp. p. 246; Gaz. vol. 176; p. 39.
Bates, Francis C., San Jose, Cal. Wave-motor. No. 1,039,081; Sept. 24; Gaz. vol. 182; p. 728.
Bates, Frank H., Elyria, Ohio, assignor, by mesne assignments, to Power Plant Engineering Co. Generating oil-gas for explosive-engines. No. 1,046,539; Dec. 10; Gaz. vol. 185; p. 297.
Bates, Frank H., Elyria, Ohio, assignor, by mesne assignments, to Power Plant Engineering Co. Oil-gas producer. No. 1,046,540; Dec. 10; Gaz. vol. 185; p. 297.
Bates, Frank H., Elyria, Ohio, assignor, by mesne assignments, to Power Plant Engineering Co. Generating oil-gas for explosive-engines. No. 1,046,541; Dec. 10; Gaz. vol. 185; p. 298.
Bates, Frank H., Elyria, Ohio, assignor, by mesne assignments, to Power Plant Engineering Co. Generating oil-gas. No. 1,046,542; Dec. 10; Gaz. vol. 185; p. 298.
Bates, Hamilton C., Chester, Conn. Nail-buffer. No. 1,023,915; Apr. 23; Sp. p. 4610; Gaz. vol. 177; p. 820.
Bates, Harry, New York, N. Y. Time-controlled workman's-check-receiving recorder. No. 1,027,797; May 28; Sp. p. 5901; Gaz. vol. 178; p. 1026.
Bates, Harry, West Copake, N. Y. Type-writer-platen-actuating mechanism. No. 1,034,058; July 30; Gaz. vol. 180; p. 1246.
Bates, Harry G., Ridgefield Park, N. J. Combination trunk, packing-board, and clothes-rack. No. 1,033,045; July 16; Gaz. vol. 180; p. 838.
Bates, Harry H., and F. Adam, Joliet, Ill. Electrolytic process. No. 1,023,545; Apr. 16; Sp. p. 3805; Gaz. vol. 177; p. 671.
Bates, Henry A., Middletown, Conn. Shuttle for sewing-machines. No. 1,029,257; June 11; Sp. p. 2572; Gaz. vol. 179; p. 436.
Bates, Henry T. P. (See Ford, Arthur W., assignor.)
Bates, Joseph W., Hastings, New Zealand. Evaporating and fumigating apparatus. No. 1,029,841; June 18; Sp. p. 3876; Gaz. vol. 179; p. 676.
Bates, Lillie F. (See Ford, Raymond S., assignor.)
Bates, Madison F., Lansing, Mich. Internal-combustion engine. No. 1,023,546; Apr. 16; Sp. p. 3808; Gaz. vol. 177; p. 672.
Bates, Malcolm P., and J. S. Lampton, Oceanpark, Cal. Ore-separator. No. 1,048,026; Dec. 24; Gaz. vol. 185; p. 871.
Bates Valve Bag Company. (See Bates, Adelmer M., assignor.)
Bates, William, Santa Barbara, Cal. Beet-harvester. No. 1,013,363; Jan. 2; Sp. p. 603; Gaz. vol. 174; p. 96.
Bates, William H., Empire, Canal Zone. Rail clamp or stay. No. 1,024,611; Apr. 30; Sp. p. 6196; Gaz. vol. 177; p. 1094.
Bates, William W., Sedgwick, Kans. Moving advertising-machine. No. 1,015,122; Jan. 16; Sp. p. 4506; Gaz. vol. 174; p. 759.
Bath Grinder Company. (See Bath, John, assignor.)
Bath, John, assignor to Bath Grinder Company, Fitchburg, Mass. Grinding-machine. No. 1,036,543; Aug. 27; Gaz. vol. 181; p. 831.
Bath, John, assignor to Bath Grinder Company, Fitchburg, Mass. Grinding-machine. No. 1,036,544; Aug. 27; Gaz. vol. 181; p. 831.
Bathrick, Charles E., assignor to F. C. Austin, Chicago, Ill. Machine for mixing concrete and the like. No. 1,013,109; Jan. 2; Sp. p. 27; Gaz. vol. 174; p. 7.
Bathrick, Charles E., assignor to F. C. Austin, Chicago, Ill. Excavator. No. 1,018,602; Feb. 27; Sp. p. 5298; Gaz. vol. 175; p. 920.

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Bathrick, Charles E., assignor to F. C. Austin, Chicago, Ill. Excavating-machine. No. 1,023,356; Apr. 16; Sp. p. 3429; Gaz. vol. 177: p. 612.
Bathurst, Thomas T., Kansas City, Mo. Fuel-feeding system for steam-boiler furnaces. No. 1,038,069; Sept. 10; Gaz. vol. 182; p. 332.
Bator, Antoni, Northampton, Pa. Envelop-moistening device. No. 1,033,520; July 23; Gaz. vol. 180; p. 1036.
Batrick, Abraham S., Kansas City, Mo. Filing-cabinet. No. 1,013,922; Jan. 9; Sp. p. 1858; Gaz. vol. 174; p. 318.
Batt, Jesse W., Maricopa, Cal. Perforation-cleaner for oil-well pipes. No. 1,040,118; Oct. 1; Gaz. vol. 183; p. 150.
Battee, Henry S. (See Valentine and Battee.)
Battelle, Eugene E., Wailuku, Hawaii. Recovery of cane-sugar. No. 1,044,003; Nov. 12; Gaz. vol. 184; p. 368.
Battelle, Eugene E., Wailuku, Hawaii. Recovery of cane-sugar. No. 1,044,004; Nov. 12; Gaz. vol. 184; p. 368.
Batten, Percy H., Chicago, Ill., assignor to E. H. Fallows, New York, N. Y. Expanded-metal chaplet. No. 1,016,389; Feb. 6; Sp. p. 341; Gaz. vol. 175; p. 54.
Battenberg Car Seal and Equipment Co. (See Weyand, Lawrence C., assignor.)
Battenfeld, John N., assignor to The Berkshire Manufacturing Company, Cleveland, Ohio. Molding-machine. No. 1,028,852; June 11; Sp. p. 1693; Gaz. vol. 179; p. 296.
Battershall, Charles E., and F. L. Oleson, Chicago, Ill. Announcement-slide for stereopticons. No. 1,018,230; Feb. 20; Sp. p. 4431; Gaz. vol. 175; p. 761.
Battershall, Fletcher W., Albany, N. Y. Making photographs. No. 1,037,192; Sept. 3; Gaz. vol. 182; p. 5.
Battery-Ball Mfg. Co. (See Culp, John W., assignor.)
Battes, John W., Cleveland, Ohio. Device for supporting shade-rollers. No. 1,046,429; Dec. 10; Gaz. vol. 185; p. 256.
Battey, Alfred F. (See Savory and Battey.)
Battin, Harold T., Bridgeport, Conn. Lock-nut. No. 1,020,178; Mar. 12; Sp. p. 2498; Gaz. vol. 176; p. 426.
Battle, James. (See Gowan, Nassau W., assignor.)
Battle, Walter G., *et al.* (See Savignac and Myers, assignors.)
Batulis, Josaf, Antrim, Pa. Coal-pick. No. 1,023,409; Apr. 16; Sp. p. 3539; Gaz. vol. 177; p. 630.
Batzel, Eugene P. (See Beck, George C., assignor.)
Baublits, Raymond, *et al.* (See Dorsey, James C. and W. W., assignors.)
Bauer, Aleck, assignor to Bauer & Black, Chicago, Ill. Convertible suspensory and supporter. No. 1,030,224; June 18; Sp. p. 4687; Gaz. vol. 179; p. 806.
Bauer, Aleck, assignor to Bauer & Black, Chicago, Ill. Dental floss-package. No. 1,040,490; Oct. 8; Gaz. vol. 183; p. 305.
Bauer & Black. (See Bauer, Aleck, assignor.)
Bauer & Black. (See Bauer, Perry S., assignor.)
Bauer & Black. (See Schulz, Otto C., assignor.)
Bauer, Carl, Wolfe, W. Va. Fruit-picker. No. 1,047,880; Dec. 17; Gaz. vol. 185; p. 796.
Bauer, Charles, London, England. Locking-washer. No. 1,020,738; Mar. 19; Sp. p. 3702; Gaz. vol. 176; p. 649.
Bauer, Christian. (See Lucas and Bauer.)
Bauer, Christopher, Clara City, Minn. Combination-tool. No. 1,039,482; Sept. 24; Gaz. vol. 182; p. 869.
Bauer, Clarence E., assignor of one-fourth to F. Bauer and one-fourth to A. Cisler, Akron, Ohio. Guide. No. 1,020,876; Mar. 19; Sp. p. 3985; Gaz. vol. 176; p. 694.
Bauer, Conrad, Knoxville, Pa. Rolling screen. No. 1,044,120; Nov. 12; Gaz. vol. 184; p. 407.
Bauer, Egbert W., Chicago, Ill. Milk or cream bottle receptacle. No. 1,024,548; Apr. 30; Sp. p. 6042; Gaz. vol. 177; p. 1073.
Bauer, Ernest F., Ravenna, Ohio. Automatic belt-shifter. No. 1,015,933; Jan. 30; Sp. p. 6248; Gaz. vol. 174; p. 1088.
Bauer, Frank, *et al.* (See Andel, Joseph, assignor.)
Bauer, Fred, *et al.* (See Bauer, Clarence E., assignor.)
Bauer, Fred W., and P. Knuppen, Milwaukee, Wis. Paper box for liquids. No. 1,046,945; Dec. 10; Gaz. vol. 185; p. 437.
Bauer, Gustavus A., Chicago, Ill. Rotary engine. No. 1,036,779; Aug. 27; Gaz. vol. 181; p. 909.
Bauer, Heinz, Berlin, Germany. Regenerative device for Roentgen tubes. No. 1,047,881; Dec. 17; Gaz. vol. 185; p. 796.
Bauer, Herman F., Longmont, Colo. Display apparatus. No. 1,049,196; Dec. 31; Gaz. vol. 185; p. 1310.
Bauer, John, Akron, Ohio. Water-motor. No. 1,022,813; Apr. 9; Sp. p. 2275; Gaz. vol. 177; p. 389.
Bauer, John G., Cleveland, Ohio. Airship. No. 1,036,780; Aug. 27; Gaz. vol. 181; p. 910
Bauer, John G., Cleveland, Ohio. Airship. No. 1,036,781; Aug. 27; Gaz. vol. 181; p. 910.
Bauer, John G., and F. Gardner, Warsaw, N. Y. Seat for pianos, sewing-machines, &c. No. 1,026,140; May 14; Sp. p. 2318; Gaz. vol. 178; p. 391.
Bauer, John P. (See Melanson, Ranchford B., assignor.)
Bauer, Joseph, Brooklyn, N. Y. Self-playing piano. No. 1,036,175; Aug. 20; Gaz. vol. 181; p. 671.
Bauer, Louis P., Pekin, Ill., assignor to Corn Products Refining Company. Drying starch. No. 1,035,302; Aug. 13; Gaz. vol. 181; p. 334.
Bauer, Martin, Cleveland, Ohio. Ladder. No. 1,015,123; Jan. 16; Sp. p. 4508; Gaz. vol. 174; p. 759.
Bauer, Perry S., assignor to Bauer & Black, Chicago, Ill. Adhesive-plaster spool. No. 1,023,236; Apr. 16; Sp. p. 3196; Gaz. vol. 177; p. 572.
Bauer, Theodor von, Berlin, Germany. Coke-oven. No. 1,026,894; May 21; Sp. p. 3980; Gaz. vol. 178; p. 685.
Bauer, Theodor von, Berlin, Germany. Coke-oven. No. 1,027,087; May 28; Sp. p. 6582; Gaz. vol. 178; p. 1123.
Bauer, William L., Covington, Ky. Tire-fastening device. No. 1,037,414; Sept. 3; Gaz. vol. 182; p. 80.
Baueris, William A. (See Johnson, Baueris, Jensen, and Lawshe.)
Bauermeister, Carl E., Terre Haute, Ind. Salt-shaker. No. 1,028,663; June 4; Sp. p. 1297; Gaz. vol. 179; p. 199.
Bauers, Clarence D. (See Miller, Frank W., assignor.)
Baugh, Ansel M., Omaha, Nebr. Steam-vulcanizer. No. 1,038,519; Sept. 17; Gaz. vol. 182; p. 520.
Baugh, James D., San Bernardino, Cal. Trowel. No. 1,037,105; Aug. 27; Gaz. vol. 181; p. 1019.
Baugh, William L. (See Young and Baugh.)
Baugh, William L., Mount Vernon, Mo. Feed-trough. No. 1,043,795; Nov. 12; Gaz. vol. 184; p. 294.
Baughan, George A., Seattle, Wash. Valve. No. 1,026,195; May 14; Sp. p. 2443; Gaz. vol. 178; p. 409.
Baughman, Fred A., Lima, Ohio. Automatic operating means for railway-gates. No. 1,044,974; Nov. 19; Gaz. vol. 184; p. 732.
Baughman, Thomas, Harrison City, Pa. Tie and rail-fastener. No. 1,027,232; May 21; Sp. p. 4758; Gaz. vol. 178; p. 800.
Baum, Catherine J., administratrix. (See Baum, Noella.)
Baum, Noella, deceased; C. J. Baum, administratrix, Omaha, Nebr. Window-shade adjuster. No. 1,045,801; Nov. 26; Gaz. vol. 184; p. 1050.
Bauman, William V., Minneapolis, Minn. Attachment for cash-registers. No. 1,041,405; Oct. 15; Gaz. vol. 183; p. 651.
Baumann, Carl A., Jefferson, Wis. Sampler for vacuum-pans. No. 1,041,725; Oct. 22; Gaz. vol. 183; p. 792.
Baumann, Robert. (See Wurmb and Baumann.)
Baumann, Ulrich A., Lucerne, Switzerland. Elastic metal sole. No. 1,013,727; Jan. 2; Sp. p. 1408; Gaz. vol. 174; p. 221.
Baumbach, William von, Milwaukee, Wis. Ice-box or refrigerator lining. No. 1,017,633; Feb. 13; Sp. p. 3057; Gaz. vol. 175; p. 515.
Baumberger, John E., Asheville, N. C. Attachment for locomotive sanding apparatus. No. 1,037,106; Aug. 27; Gaz. vol. 181; p. 1019.
Baumeister, Andrew V., Rockwood, Mich. Knockdown crate. No. 1,028,094; June 4; Sp. p. 2; Gaz. vol. 179; p. 3.
Baumer, Bertha. (See Baumer, Clarence E. and B.)
Baumer, Clarence E. and B., Troy, Ohio. Safety device for elevators. No. 1,018,864; Feb. 27; Sp. p. 5844; Gaz. vol. 175; p. 1008.
Baumert, Theodor, Deutsch Lissa, Germany. Oar. No. 1,014,281; Jan. 9; Sp. p. 2648; Gaz. vol. 174; p. 441.
Baumgardner, Willis F., assignor of one-half to H. W. Allen, Columbus, Ohio. Metallic railway-tie. No. 1,032,528; July 16; Gaz. vol. 180; p. 663.
Baumgartner-Hartmann, Sebastian, Zollikon, Switzerland. Date-indicator for clocks. No. 1,027,518; May 28; Sp. p. 5337; Gaz. vol. 178; p. 934.
Baumgartner, Sebastian, Zollikon, Switzerland. Forging-machine. No. 1,048,127; Dec. 24; Gaz. vol. 185; p. 907.
Baumis, Frank J. (See Putnam and Baumis.)
Baumruk, Joseph, Chicago, Ill. Weather-strip. No. 1,037,720; Sept. 3; Gaz. vol. 182; p. 182.
Bauroth, Leonhard, Toledo, Ohio, assignor to C. H. Wacker, Chicago, Ill. Forming metallic barrel-bodies. No. 1,039,885; Oct. 1; Gaz. vol. 183; p. 72.
Bauroth, Leonhard, Toledo, Ohio, assignor to C. H. Wacker, Chicago, Ill. Machine for forming barrels. No. 1,039,886; Oct. 1; Gaz. vol. 183; p. 72.
Bauroth, Leonhard, Toledo, Ohio, assignor to C. H. Wacker, Chicago, Ill. Machinery for forming barrels. No. 1,039,887; Oct. 1; Gaz. vol. 183; p. 73.
Bauroth, Leonhard, Toledo, Ohio, assignor to C. H. Wacker, Chicago, Ill. Apparatus for forming metallic barrel-bodies. No. 1,041,406; Oct. 15; Gaz. vol. 183; p. 652.
Bauroth, Walter J., Columbus, Ohio, assignor to The Jeffrey Manufacturing Company. Electric drill. No. 1,044,338; Nov. 12; Gaz. vol. 184; p. 482.
Bausback, George. (See Fitch and Bausback.)
Bausch & Lomb Optical Company. (See Kellner, Gustav A. H., assignor.)
Bauscher, Frederick W., New York, N. Y. Diamond-holder. No. 1,045,664; Nov. 26; Gaz. vol. 184; p. 1005.
Bausman, Alonzo L., Chicopee, assignor to National Equipment Company, Springfield, Mass. Chocolate-grinding machine. No. 1,035,303; Aug. 13; Gaz. vol. 181; p. 334.

Alphabetical list of patentees—Continued.

Bausman, Alonzo L., Chicopee, assignor to National Equipment Company, Springfield, Mass. Grinding-mill. No. 1,035,304; Aug. 13; Gaz. vol. 181; p. 335.
Bausman, Alonzo L., Chicopee, and D. C. Cottreal, assignors to The National Equipment Company, Springfield, Mass. Packing-table. No. 1,023,103; Apr. 9; Sp. p. 2869; Gaz. vol. 177; p. 488.
Bausmith, William T., Bellevue, Ky. Soft-metal hammer. No. 1,029,739; June 18; Sp. p. 3637; Gaz. vol. 179; p. 641.
Bavier, Charles S., New York, N. Y. Lubricating device. No. 1,014,744; Jan. 16; Sp. p. 3682; Gaz. vol. 174; p. 629.
Bavier, Charles S., and E. F. Banfield, New York, N. Y. Fabric packing. No. 1,040,259; Oct. 8; Gaz. vol. 183; p. 226.
Baxeres de Alzugaray, José, assignor to International Metallurgical Company, New York, N. Y. Leaching solution for extracting metals from ores. No. 1,018,955; Feb. 27; Sp. p. 6027; Gaz. vol. 175; p. 1039.
Baxeres de Alzugaray, José, assignor, by mesne assignments, to Midland Ores and Patents Company, New York, N. Y. Extracting metals from ores. No. 1,041,407; Oct. 15; Gaz. vol. 183; p. 652.
Baxter, Carl H. (See Clark, Joseph V., assignor.)
Baxter, Charles O. (See Carter, William C., assignor.)
Baxter, John, *et al.* (See Hall, Frank M., assignor.)
Baxter, John B., assignor to Covert Manufacturing Company, Watervliet, N. Y. Spring-tongue snap. No. 1,032,369; July 16; Gaz. vol. 180; p. 611.
Baxter, John B., assignor to Covert Manufacturing Company, Watervliet, N. Y. Snap-hook. No. 1,044,975; Nov. 19; Gaz. vol. 184; p. 733.
Baxter, John B., assignor to Covert Manufacturing Company, Watervliet, N. Y. Snap-hook. No. 1,047,150; Dec. 17; Gaz. vol. 185; p. 536.
Baxter, John H., Berthoud, Colo. Windmill. No. 1,020,957; Mar. 26; Sp. p. 4156; Gaz. vol. 176; p. 773.
Baxter, Lonnie A., Cincinnati, Ohio. Vacuum-cleaner. No. 1,026,553; May 14; Sp. p. 3204; Gaz. vol. 178; p. 529.
Baxter, William, Jr., Jersey City, N. J., assignor to Otis Elevator Company. Elevator-controlling apparatus. No. 1,047,151; Dec. 17; Gaz. vol. 185; p. 537.
Baxter, William D., Ewing, Nebr. Farm-gate. No. 1,047,368; Dec. 17; Gaz. vol. 185; p. 617.
Baxter, William E., Louisville, Ky. Cooking apparatus. No. 1,040,119; Oct. 1; Gaz. vol. 183; p. 150.
Baxter, William H., Harrogate, England. Apparatus for washing stone and mixing macadam and concrete. No. 1,018,404; Feb. 27; Sp. p. 4804; Gaz. vol. 175; p. 851.
Bay State Gas Company. (See Roessler and Armington, assignors.)
Bay State Metal Wheel Company. (See Kurz, Otto, assignor.)
Bay State Optical Company. (See Clulee, Stephen J., assignor.)
Bayer, August V., assignor to Bayer Steam Soot Blower Company, St. Louis, Mo. Boiler-cleaner. No. 1,026,141; May 14; Sp. p. 2319; Gaz. vol. 178; p. 392.
Bayer, August V., assignor to Bayer Steam Soot Blower Company, St. Louis, Mo. Soot-blower attachment. No. 1,028,180; June 4; Sp. p. 282; Gaz. vol. 179; p. 35.
Bayer, August V., assignor to Bayer Steam Soot Blower Company, St. Louis, Mo. Soot-blower for boilers. No. 1,036,953; Aug. 27; Gaz. vol. 181; p. 967.
Bayer, August V., St. Louis, Mo., and G. P. Brown, Chicago, Ill. Boiler-cleaner. No. 1,028,179; June 4; Sp. p. 280; Gaz. vol. 179; p. 35.
Bayer, Jacob V., Owosso, Mich. Holdback for thills. No. 1,040,847; Oct. 8; Gaz. vol. 183; p 429.
Bayer, Joseph, Jr., New York, N. Y. Fastening device. No. 1,023,237; Apr. 16; Sp. p. 3197; Gaz. vol. 177; p. 572.
Bayer, Joseph C., deceased; S. A. M. Bayer, administratrix, New York, N. Y. Non-refillable bottle. No. 1,027,583; May 28; Sp. p. 5476; Gaz. vol. 178; p. 957.
Bayer, Lee, Willisville, Ill. Capstan or windlass. No. 1,040,120; Oct. 1; Gaz. vol. 183; p. 151.
Bayer, Leo J., assignor to Bayer Steam Soot Blower Company, St. Louis, Mo. Boiler-cleaner. No. 1,028,083; May 28; Sp. p. 6573; Gaz. vol. 178; p. 1121.
Bayer, Leo J., assignor to Bayer Steam Soot Blower Company, St. Louis, Mo. Soot boiler-cleaner. No. 1,032,583; July 16; Gaz. vol. 180; p. 681.
Bayer, Sarah A. M., administratrix. (See Bayer, Joseph C.)
Bayer Steam Soot Blower Company. (See Bayer, August V., assignor.)
Bayer Steam Soot Blower Company. (See Bayer, Leo J., assignor.)
Bayer, William F., assignor to The Chase & Baker Company, Buffalo, N. Y. Door-operating device for musical instruments. No. 1,015,609; Jan. 23; Sp. p. 5554; Gaz. vol. 174; p. 951.
Bayler, Charles A., York, Pa. Wheeled tray. No. 1,038,267; Sept. 10; Gaz. vol. 182; p. 399.
Bayles, Harry S., Long Island, N. Y. Screen. No. 1,035,519; Aug. 13; Gaz. vol. 181; p. 409.
Bayless, Patrick A., Oklahoma, and H. D. Henry, El Reno, Okla. Collapsible drinking-cup. No. 1,025,606; May 7; Sp. p. 1114; Gaz. vol. 178; p. 173.
Bayley, Charles H., Boston, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Vamp-marking machine. No. 1,030,275; June 25; Sp. p. 4814; Gaz. vol. 179; p. 863.
Bayley, William. (See Bayley, William D. and W.)
Bayley, William, Springfield, Ohio. Lantern-windows and their operating mechanism. No. 1,025,957; May 14; Sp. p. 1899; Gaz. vol. 178; p. 327.
Bayley, William and W. D., Springfield, Ohio. Metal window-sash. No. 1,042,524; Oct. 29; Gaz. vol. 183; p. 1093.
Bayley, William D. (See Bayley, William and W. D.)
Bayley, William D. and W., Springfield, Ohio. Pruning device. No. 1,032,370; July 16; Gaz. vol. 180; p. 611.
Baylis, Everest A., Madera, Mexico. Protective covering for concentrator-tables and applying the same. No. 1,037,579; Sept. 3; Gaz. vol. 182; p. 136.
Bayne, Eugene D. C., and L. A. Subers, Cleveland, Ohio. Tubular-fabric-forming device. No. 1,026,648; May 21; Sp. p. 3431; Gaz. vol. 178; p. 599.
Baynes, Cyril. (See Hall and Baynes.)
Bayrer, William J., assignor to The Henry & Wright Manufacturing Company, Hartford, Conn. Clamping device. No. 1,035,143; Aug. 13; Gaz. vol. 181; p. 276.
Bazley, Isaiah J., Quincy, assignor of four-tenths to W. H. Bazley, Everett, Mass. Heel-shaver. No. 1,031,036; July 2; Gaz. vol. 180; p. 66.
Bazley, William H. (See Bazley, Isaiah J., assignor.)
Bazley, William H., Everett, assignor to Plympton Manufacturing Company, Boston, Mass. Strip-feeding mechanism. No. 1,019,295; Mar. 5; Sp. p. 644; Gaz. vol. 176; p. 101.
Bäzner, Albert, Birkenfeld, Germany. Making metal chains of entangled solder-wire links. No. 1,048,128; Dec. 24; Gaz. vol. 185; p. 907.
Bazzoni, Lewis J., Swampscott, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for operating on boots and shoes. No. 1,029,842; June 18; Sp. p. 3877; Gaz. vol. 179; p. 676.
Beach, Albert G., *et al.* (See Gipple, Roy E., assignor.)
Beach, Charles L., Ann Arbor, Mich. Dish-washer. No. 1,034,676; Aug. 6; Gaz. vol. 181; p. 91.
Beach, David S., Bridgeport, Conn. Railway-tie. No. 1,023,798; Apr. 23; Sp. p. 4298; Gaz. vol. 177; p. 780.
Beach, Francis W., Schuylerville, N. Y. Vertically-adjustable case for bottles or the like. No. 1,013,728; Jan. 2; Sp. p. 1408; Gaz. vol. 174; p. 221.
Beach, H. M. (See Senn, George T., assignor.)
Beach, Harry L., Coshocton, Ohio. Straw-dispenser. No. 1,021,232; Mar. 26; Sp. p. 4734; Gaz. vol. 176; p. 865.
Beach, Harry L., Coshocton, Ohio. Display-stand. No. 1,047,882; Dec. 17; Gaz. vol. 185; p. 797.
Beach, Herbert E., Birmingham, England. Electrolytic anode. No. 1,019,588; Mar. 5; Sp. p. 1304; Gaz. vol. 176; p. 196.
Beach Manufacturing Company. (See Saur, John, Jr., assignor.)
Beach, Oscar C., assignor to F. W. Braun, Los Angeles, Cal. Crusher. No. 1,045,499; Nov. 26; Gaz. vol. 184; p. 944.
Beach, Oscar C., Los Angeles, and A. J. Hodge, Pasadena, assignors to F. W. Braun, Los Angeles, Cal. Gearing. No. 1,021,233; Mar. 26; Sp. p. 4736; Gaz. vol. 176; p. 865.
Beach, Thaddeus C., St. Johns, Mich. Turn-table. No. 1,017,033; Feb. 13; Sp. p. 1781; Gaz. vol. 175; p. 310.
Beach, William J. H., Wellington, New Zealand. Aeroplane. No. 1,018,474; Feb. 27; Sp. p. 4952; Gaz. vol. 175; p. 875.
Beacon Falls Rubber Shoe Company, The. (See Crowley, John T., assignor.)
Beadell, Benjamin W., assignor to National Waterproof Film Company, Chicago, Ill. Container for picture-films and the like. No. 1,019,589; Mar. 5; Sp. p. 1306; Gaz. vol. 176; p. 196.
Beadle, George W., Bayonne, N. J., assignor to Single Service Package Corporation of America, New York, N. Y. Making removable end closures for vessels. No. 1,016,390; Feb. 6; Sp. p. 342; Gaz. vol. 175; p. 54.
Beadle, George W., Bayonne, N. J., assignor to Single Service Package Corporation of America, New York, N. Y. Machine for making metal tubes. No. 1,018,291; Feb. 20; Sp. p. 4553; Gaz. vol. 175; p. 781.
Beadle, George W., Bayonne, N. J., assignor to Single Service Package Corporation of America, New York, N. Y. Labeling attachment for carton-crimping machines. No. 1,026,554; May 14; Sp. p. 3205; Gaz. vol. 178; p. 530.
Beadle, George W., Bayonne, N. J., assignor to Single Service Package Corporation of America, New York, N. Y. Machine for coating cartons. No. 1,030,636; June 25; Sp. p. 5803; Gaz. vol. 179; p. 995.
Beadle, George W., Bayonne, N. J., assignor to Single Service Package Corporation of America, New York, N. Y. Drinking-cup. No. 1,030,637; June 25; Sp. p. 5806; Gaz. vol. 179; p. 995.
Beadle, George W., Bayonne, N. J., assignor to Single Service Package Corporation of America, New York, N. Y. Closure for vessels. No. 1,031,615; July 2; Gaz. vol. 180; p. 265.

Alphabetical list of patentees—Continued.

Beadle, George W., Bayonne, N. J., assignor to Single Service Package Corporation of America, New York, N. Y. Permanent end closure for cartons. No. 1,033,659; July 23; Gaz. vol. 180; p. 1082.
Beadle, George W., East Orange, N. J., assignor to Single Service Package Corporation of America. Apparatus for shaping hollow bodies. No. 1,034,567; Aug. 6; Gaz. vol. 181; p. 56.
Beadle, George W., Bayonne, N. J., assignor to Single Service Package Corporation of America, New York, N. Y. Removably applying end closures to vessels. No. 1,035,305; Aug. 13; Gaz. vol. 181; p. 335.
Beadle, George W., Bayonne, N. J., assignor to Single Service Package Corporation of America, New York, N. Y. Removable end closure for cartons. No. 1,036,545; Aug. 27; Gaz. vol. 181; p. 832.
Beadle, George W., Bayonne, N. J., assignor to Single Service Package Corporation of America, New York, N. Y. Roller spinning-disk for crimping-machines. No. 1,038,715; Sept. 17; Gaz. vol. 182; p. 588.
Beadle, George W., Bayonne, N. J., assignor to Single Service Package Corporation of America, New York, N. Y. Permanently applying end closures to vessels. No. 1,044,976; Nov. 19; Gaz. vol. 184; p. 733.
Beadle, George W., East Orange, N. J., assignor to Westinghouse Lamp Company. Machine for manufacturing parts of incandescent lamps. No. 1,017,072; Feb. 13; Sp. p. 1871; Gaz. vol. 175; p. 324.
Beadle, George W., East Orange, N. J., assignor to Westinghouse Lamp Company. Lamp-manufacturing machine. No. 1,031,770; July 9; Gaz. vol. 180; p. 362.
Beadle, George W., East Orange, N. J., assignor to Westinghouse Lamp Company. Support for incandescent-lamp filaments. No. 1,046,722; Dec. 10; Gaz. vol. 185; p. 363.
Beadle, George W., East Orange, N. J., assignor to Westinghouse Lamp Company. Tube-cutting machine. No. 1,046,723; Dec. 10; Gaz. vol. 185; p. 363.
Beadle, George W., East Orange, N. J., assignor to Westinghouse Lamp Company. Machine for manufacturing supports for incandescent-lamp filaments. No. 1,046,724; Dec. 10; Gaz. vol. 185; p. 363.
Beadle, George W., Montclair, N. J., assignor to Single Service Package Corporation of America, New York, N. Y. Locking slip-closure for vessels. No. 1,027,233; May 21; Sp. p. 4758; Gaz. vol. 178; p. 800.
Beadles, Edward P., Danville, Va. Dental mirror. No. 1,029,258; June 11; Sp. p. 2574; Gaz. vol. 179; p. 437.
Beallor, William O., Midland, Mich. Tile-machine. No. 1,031,512; July 2; Gaz. vol. 180; p. 231.
Beaird, Daniel H. (See Portner and Beaird.)
Beal, Asher, Montrose, assignor of one-half to A. R. Murdock, Denver, Colo. Irrigating-ditch controller. No. 1,014,438; Jan. 9; Sp. p. 2992; Gaz. vol. 174; p. 496.
Beal, Maggie M., Ranger Lake, N. Mex. Dish-washer. No. 1,046,249; Dec. 3; Gaz. vol. 185; p. 157.
Beal, Samuel R., and J. D. Crandell, assignors to The Adrian Novelty Co., Adrian, Mich. Vending-machine. No. 1,025,235; May 7; Sp. p. 273; Gaz. vol. 178; p. 46.
Beale, Carroll, and D. P. Moore, Washington, D. C. Flexible jointed clutch. No. 1,015,259; Jan. 16; Sp. p. 4774; Gaz. vol. 174; p. 804.
Beall, Albert E., Clinton, Iowa, assignor to R. N. Howes and H. U. Crockett. Paper-baler. No. 1,039,244; Sept. 24; Gaz. vol. 182; p. 786.
Beall, Albert E., and C. F. Skellenger, Clinton, Iowa, assignors to J. C. Smith. Paper-baler. No. 1,023,984; Apr. 23; Sp. p. 4752; Gaz. vol. 177; p. 843.
Beall, Frank F., assignor to Packard Motor Car Company, Detroit, Mich. Testing apparatus. No. 1,044,121; Nov. 12; Gaz. vol. 184; p. 407.
Beall, John, Decatur, Ill. Mill for grinding grains. No. 1,041,950; Oct. 22; Gaz. vol. 183; p. 871.
Beals, Mary A., and M. J. Stark, Jr., Chicago, Ill; said Stark assignor to said Beals. Paymaster's calculator. No. 1,018,028; Feb. 20; Sp. p. 3990; Gaz. vol. 175; p. 690.
Beam, Charles W., assignor to H. C. Fry Glass Company, Rochester, Pa. Polishing-machine. No. 1,037,851; Sept. 10; Gaz. vol. 182; p. 257.
Beam, Charles W., assignor to H. C. Fry Glass Company, Rochester, Pa. Polishing-machine. No. 1,037,852; Sept. 10; Gaz. vol. 182; p. 257.
Beam, Frank E., assignor to The Union Electric Welding Company, Toledo, Ohio. Wire-tie tool. No. 1,027,097; May 21; Sp. p. 4482; Gaz. vol. 178; p. 756.
Beam, Jacob B., Punxsutawney, Pa. Radiator. No. 1,019,121; Mar. 5; Sp. p. 248; Gaz. vol. 176; p. 39.
Beam, Jacob B., Punxsutawney, Pa. Radiator. No. 1,019,122; Mar. 5; Sp. p. 254; Gaz. vol. 176; p. 40.
Beam, Jacob B., Punxsutawney, Pa. Radiator. No. 1,026,895; May 21; Sp. p. 3981; Gaz. vol. 178; p. 685.
Beam, Jacob B., Punxsutawney, Pa. Radiator. No. 1,026,896; May 21; Sp. p. 3983; Gaz. vol. 178; p. 685.
Beam, John C. (See Wilson, William P., assignor.)
Beam, Willie C., Rockford, Ill. Pulley-covering. No. 1,024,667; Apr. 30; Sp. p. 6315; Gaz. vol. 177; p. 1113.
Beamer, Christopher C., Steubenville, Ohio. Medicine-spoon. No. 1,027,976; May 28; Sp. p. 6340; Gaz. vol. 178; p. 1088.
Beamer, Frank H., Buffalo, N. Y. Resilient vehicle-wheel. No. 1,023,497; Apr. 16; Sp. p. 3713; Gaz. vol. 177; p. 657.
Beamisderfer, Joseph A., Jonestown, Pa. Razor-sharpener. No. 1,014,745; Jan. 16; Sp. p. 3684; Gaz. vol. 174; p. 629.
Bean, Horace D. (See Shire and Bean.)
Bean, Irene A., Lonepine, Ark. Window. No. 1,027,584; May 28; Sp. p. 5478; Gaz. vol. 178; p. 958.
Bean, Jesse A., Texarkana, Tex. Shoe blacking and polishing machine. No. 1,030,702; June 25; Sp. p. 5953; Gaz. vol. 179; p. 1017.
Bean, Joe W. (See Coakley, Dennis X., assignor.)
Bean, Leon H., Atlantic, assignor to L. H. Cress, Boston, Mass. Safety-razor. No. 1,044,476; Nov. 19; Gaz. vol. 184; p. 559.
Bean, Mathias G., Bluegrass, N. D. Portable derrick. No. 1,030,765; June 25; Sp. p. 6120; Gaz. vol. 179; p. 1039.
Beane, Emile W., Winslow, Ariz. Signal-lantern. No. 1,029,041; June 11; Sp. p. 2117; Gaz. vol. 179; p. 364.
Bear, Raymond R., Allentown, Pa. Clinker-cooler. No. 1,034,861; Aug. 6; Gaz. vol. 181; p. 156.
Bear, William L., assignor to The Perfection Check Protector Company, Williamsport, Pa. Paper-marking device. No. 1,030,963; July 2; Gaz. vol. 180; p. 39.
Bear, William L., Williamsport, Pa., assignor of one-third to J. S. Speer and one-third to G. P. Fryling. Mortuary casket. No. 1,040,121; Oct. 1; Gaz. vol. 183; p. 151.
Beard, Clement E. (See Stephan and Beard.)
Beard, George L. (See Weaver and Beard.)
Beard, George M., Lagrange, Ind. Vehicle-jack. No. 1,014,801; Jan. 16; Sp. p. 3810; Gaz. vol. 174; p. 648.
Beard, James, Veterans Home, Cal. Traction-wheel. No. 1,035,112; Aug. 6; Gaz. vol. 181; p. 236.
Beard, Paul M., assignor to American Car and Foundry Company, St. Louis, Mo. Safety chain-hook. No. 1,047,488; Dec. 17; Gaz. vol. 185; p. 658.
Beard, Wallace C., St. Louis, Mo. Chord-chart for piano-keyboards. No. 1,041,230; Oct. 15; Gaz. vol. 183; p. 592.
Beard, William A., London, England. Rotary pump, rotary engine, and the like. No. 1,016,199; Jan. 30; Sp. p. 6786; Gaz. vol. 174; p. 1180.
Bearden, Charlie. (See Bearden, Joseph and C.)
Bearden, Joseph and C., Hermitage, Ark. Saw-filing gage. No. 1,029,966; June 18; Sp. p. 4145; Gaz. vol. 179; p. 718.
Beardsley, Frank E., Traverse City, assignor to W. Godfrey, Sault Ste. Marie, Mich. Fountain-brush. No. 1,047,729; Dec. 17; Gaz. vol. 185; p. 744.
Beardsley, Sylvester C., Kirksville, Mo. Cow-tail holder. No. 1,026,378; May 14; Sp. p. 2854; Gaz. vol. 178; p. 473.
Beasecker, Clarence H., Sparta, Mich. Folding and convertible go-cart. No. 1,021,964; Apr. 2; Sp. p. 461; Gaz. vol. 177; p. 73.
Beasley, Arthur, East St. Louis, Ill. Car-truck. No. 1,029,582; June 18; Sp. p. 3277; Gaz. vol. 179; p. 583.
Beasley, Arthur, East St. Louis, Ill. Locomotive sander-valve. No. 1,047,883; Dec. 17; Gaz. vol. 185; p. 797.
Beasley, Fredric G. (See McKechnie and Beasley.)
Beasley, James R., Lynchburg, Va. Combined coffee and tea pot. No. 1,035,407; Aug. 13; Gaz. vol. 181; p. 372.
Beasley, William F., Plymouth, N. C. Rubber composition. No. 1,049,039; Dec. 31; Gaz. vol. 185; p. 1258.
Beaton, Allan J., assignor to The Beaton and Cadwell Manufacturing Company, New Britain, Conn. Pipe-roll. No. 1,044,850; Nov. 19; Gaz. vol. 184; p. 690.
Beaton and Cadwell Manufacturing Company, The. (See Beaton, Allan J., assignor.)
Beaton, Claude T. (See Smith, George W., assignor.)
Beaton & Corbin Mfg. Co., The. (See Wells, Frank N. and A. R., assignors.)
Beaton, Malcolm S., J. Eason, and J. H. Wilson, Germiston, Transvaal. Automatic lubricating apparatus. No. 1,040,491; Oct. 8; Gaz. vol. 183; p. 305.
Beatson, David B., Asbury Park, N. J. Hotel room-rack. No. 1,030,766; June 25; Sp. p. 6122; Gaz. vol. 179; p. 1040.
Beattie, Hugh S., Tezuitlan, Mexico. Emergency-brake-setting device. No. 1,042,869; Oct. 29; Gaz. vol. 183; p. 1214.
Beattie, John, Leete Island, Conn. Battery-zinc. No. 1,027,169; May 21; Sp. p. 4630; Gaz. vol. 178; p. 777.
Beattie, Thomas. (See Peate and Beattie.)
Beattie, William J. (See Miller and Beattie.)
Beatty, David, Berkeley, Cal. Baking-powder. No. 1,034,677; Aug. 6; Gaz. vol. 181; p. 91.
Beatty, David, Berkeley, Cal. Thermostat. No. 1,046,543; Dec. 10; Gaz. vol. 185; p. 299.
Beatty, Harold. (See Monro and Beatty.)
Beatty, John P. and W. M., Charlotte, N. C. Road-oil heater and distributer. No. 1,046,946; Dec. 10; Gaz. vol. 185; p. 438.
Beatty, Robert D., Cleveland, Ohio. Signal mechanism for electric railways. No. 1,028,853; June 11; Sp. p. 1695; Gaz. vol. 179; p. 297.
Beatty, Ulysses G., assignor of one-half to H. Knight, Wolf Summit, W. Va. Connecting-socket. No. 1,034,338; July 30; Gaz. vol. 180; p. 1343.

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Beatty, William F., Laurel Hill, N. Y. Game-board. No. 1,046,544; Dec. 10; Gaz. vol. 185; p. 299.
Beatty, William G., Fergus, Ontario, Canada. Gate-latch. No. 1,032,371; July 16; Gaz. vol. 180; p. 612.
Beatty, William H., assignor to C. R. Waid, Birmingham, Ala. Lubricator. No. 1,040,122; Oct. 1; Gaz. vol. 183; p. 151.
Beatty, William M. (See Beatty, John P. and W. M.)
Beau, Henri, Paris, France. Hydraulic apparatus. No. 1,047,489; Dec. 17; Gaz. vol. 185; p. 658.
Beaucondray, Emile, and W. G. Biery, Covington, La. Distilling apparatus. No. 1,043,894; Nov. 12; Gaz. vol. 184; p. 329.
Beaudenon, Didier, St. Ouen-sur-Seine, France. Automatic switch. No. 1,041,951; Oct. 22; Gaz. vol. 183; p. 871.
Beaudett, Alcide E., Albuquerque, N. Mex. Aeroplane. No. 1,023,000; Apr. 9; Sp. p. 2657; Gaz. vol. 177; p. 453.
Beaudry, Zotique, Lynn, Mass., assignor to United-Xpedite Finishing Company, Berwick, Me. Tool for finishing the heels of boots and shoes. No. 1,024,612; Apr. 30; Sp. p. 6199; Gaz. vol. 177; p. 1094.
Beaudry, Zotique, Lynn, Mass., assignor to United-Xpedite Finishing Company, Berwick, Me. Burnishing-tool. No. 1,030,049; June 18; Sp. p. 4327; Gaz. vol. 179; p. 747.
Beaulieu, Louis E., Sorel, Quebec, Canada. Fish-plate bolt. No. 1,023,985; Apr. 23; Sp. p. 4755; Gaz. vol. 177; p. 844.
Beaumont, Leon C., Hudson Falls, N. Y. Automobile-tire. No. 1,025,854; May 7; Sp. p. 1628; Gaz. vol. 178; p. 258.
Beauregard, Victor, Boston, Mass., assignor of one-half to E. B. Waite, Chicago, Ill. Machine for marking mail-matter. No. 1,019,296; Mar. 5; Sp. p. 647; Gaz. vol. 176; p. 101.
Beausejour, Reme A., assignor to Standard Varnish Works, New York, N. Y. Holder for liquid-coating machines. No. 1,025,671; May 7; Sp. p. 1256; Gaz. vol. 178; p. 194.
Beausejour, Reme A., and G. Drubel, assignors to Standard Varnish Works, New York, N. Y. Liquid-coating machine. No. 1,014,282; Jan. 9; Sp. p. 2648; Gaz. vol. 174; p. 441.
Beaver, Cornelius, Spangler, Pa. Nut-lock. No. 1,039,483; Sept. 24; Gaz. vol. 182; p. 870.
Beaver Dam Manufacturing Company. (See Broman, Peter, assignor.)
Beaver, Howard W., Pittsburgh, assignor of one-half to W. H. Milligan, Clairton, Pa. Stamp moistening and affixing device. No. 1,035,846; Aug. 20; Gaz. vol. 181; p. 556.
Beaver, Wesley, Collinsville, Ill. Clothes-line prop. No. 1,014,688; Jan. 16; Sp. p. 3568; Gaz. vol. 174; p. 610.
Beazley, Joseph O., assignor to The Brush Mop Wringer Manufacturing Company, Baltimore, Md. Wringing device. No. 1,042,072; Oct. 22; Gaz. vol. 183; p. 911.
Bebon, Daniel J., New York, N. Y. Game apparatus. No. 1,018,956; Feb. 27; Sp. p. 6027; Gaz. vol. 175; p. 1039.
Becher, James A., Chicago, Ill. Die stock or head. No. 1,015,282; Jan. 23; Sp. p. 4835; Gaz. vol. 174; p. 838.
Bechman, Henry F., assignor to Duplex Printing Press Company, Battle Creek, Mich. Chase for holding composed forms of type. No. 1,016,605; Feb. 6; Sp. p. 864; Gaz. vol. 175; p. 129.
Bechoff, Ferdinand, Schenectady, N. Y., assignor to General Electric Company. Circuit-controlling mechanism. No. 1,037,580; Sept. 3; Gaz. vol. 182; p. 136.
Bechtel, John A. (See Franzen and Bechtel.)
Bechtold, Joseph C., Detroit, Mich. Cue-tip holder. No. 1,014,559; Jan. 9; Sp. p. 3206; Gaz. vol. 174; p. 534.
Bechtold, William S. (See Pollitz, George S., assignor.)
Bechtold, William S., New York, N. Y. Barrette. No. 1,023,064; Apr. 9; Sp. p. 2792; Gaz. vol. 177; p. 475.
Beck, Arthur. (See Beck, Charles and A.)
Beck, August B., Cranford, N. J., assignor to M. W. Schloss, New York, N. Y. Supporter for articles of apparel. No. 1,041,408; Oct. 15; Gaz. vol. 183; p. 652.
Beck Automatic Electrical Safety and Signal Switch Company, The. (See Beck, Charles and A., assignors.)
Beck, Charles and A., assignors to The Beck Automatic Electrical Safety and Signal Switch Company, St. Louis, Mo. Electric signal-switch. No. 1,023,410; Apr. 16; Sp. p. 3540; Gaz. vol. 177; p. 630.
Beck, Charles W., Rockville Center, N. Y. Gas-engine priming-cup. No. 1,040,996; Oct. 15; Gaz. vol. 183; p. 513.
Beck, Charles W., Rockville Center, N. Y., assignor, by mesne assignments, to Oxweld Acetylene Company. Acetylene-gas lamp. No. 1,033,861; July 30; Gaz. vol. 180; p. 1175.
Beck, Charles W., Rockville Center, N. Y., assignor, by mesne assignments, to Oxweld Acetylene Company. Acetylene-gas generator. No. 1,033,862; July 30; Gaz. vol. 180; p. 1176.
Beck, Charles W., Rockville Center, N. Y., assignor, by mesne assignments, to Oxweld Acetylene Company. Acetylene-gas generator. No. 1,033,863; July 30; Gaz. vol. 180; p. 1176.
Beck, Charles W., Rockville Center, N. Y., assignor, by mesne assignments, to Oxweld Acetylene Company. Acetylene-generator. No. 1,033,864; July 30; Gaz. vol. 180; p. 1177.
Beck, Christian F. (See Dress and Beck.)
Beck, Conrad and H. C., London, England. Lens for projection and photography. No. 1,035,408; Aug. 13; Gaz. vol. 181; p. 372.
Beck, Edgar S., Treichlers, Pa. Current-interrupter. No. 1,039,011; Sept. 17; Gaz. vol. 182; p. 690.
Beck, Edwin S., Duncannon, Pa. Combined check and stop valve. No. 1,019,590; Mar. 5; Sp. p. 1307; Gaz. vol. 176; p. 196.
Beck, Frédéric, Neuilly-sur-Seine, France. Rotary explosion-motor. No. 1,025,361; May 7; Sp. p. 569; Gaz. vol. 178; p. 89.
Beck, Frederic J., Poplar, Mont. Lock and tag holder for mail-pouches. No. 1,020,395; Mar. 19; Sp. p. 2936; Gaz. vol. 176; p. 534.
Beck, George C., Spokane, Wash., assignor of one-half to E. P. Batzel, Detroit, Mich. Valve mechanism. No. 1,027,977; May 28; Sp. p. 6341; Gaz. vol. 178; p. 1088.
Beck, Harold E., Chicago, Ill. Ozonizer. No. 1,040,123; Oct. 1; Gaz. vol. 183; p. 152.
Beck, Harold M., and C. Ambruster, Chicago, Ill. Battery-current-limiting device. No. 1,023,490; Apr. 16; Sp. p. 3696; Gaz. vol. 177; p. 654.
Beck, Harry J., Indiana, Pa. Valve-remover. No. 1,038,520; Sept. 17; Gaz. vol. 182; p. 520.
Beck, Heinrich, Berlin, Germany. Manufacture of heating apparatus. No. 1,016,910; Feb. 6; Sp. p. 1497; Gaz. vol. 175; p. 231.
Beck, Heinrich, Meiningen, Germany. Electric-arc lamp for searchlights, projectors, and the like. No. 1,029,787; June 18; Sp. p. 3729; Gaz. vol. 179; p. 656.
Beck, Heinrich, Meiningen, Germany. Heating apparatus for instruments. No. 1,046,140; Dec. 3; Gaz. vol. 185; p. 118.
Beck, Henry C. (See Sellers and Beck.)
Beck, Herman P., Pittsburgh, assignor to L. McClintock, Ingram, Pa. Dinner-bucket. No. 1,045,665; Nov. 26; Gaz. vol. 184; p. 1005.
Beck, Horace C. (See Beck, Conrad and H. C.)
Beck, John C. (See Doddridge and Beck.)
Beck, John C., Seattle, assignor of one-half to E. E. Bonn, King county, Wash. Priming-cup for gasolene-engines. No. 1,015,868; Jan. 30; Sp. p. 6106; Gaz. vol. 174; p. 1065.
Beck, John L., Springfield, Mass. Apparatus for controlling lights on automobiles. No. 1,018,154; Feb. 20; Sp. p. 4280; Gaz. vol. 175; p. 735.
Beck, John L., Springfield, assignor to The Auto Safety Crank Company, Holyoke, Mass. Safety cranking device for explosive-engines. No. 1,027,798; May 28; Sp. p. 5911; Gaz. vol. 178; p. 1027.
Beck, John L., Springfield, assignor to The Auto Safety Crank Company, Holyoke, Mass. Safety cranking device for explosive-engines. No. 1,027,799; May 28; Sp. p. 5914; Gaz. vol. 178; p. 1027.
Beck, John L., Springfield, assignor, by mesne assignments, to Auto Safety Crank Company Holyoke, Mass. Safety cranking device for explosive-engines. No. 1,046,947; Dec. 10; Gaz. vol. 185; p. 438.
Beck, Larkin, Kirtland, N. Mex. Adjustable axle-nut. No. 1,015,124; Jan. 16; Sp. p. 4511; Gaz. vol. 174; p. 760.
Beck, Larkin, Kirkland, N. Mex. Lock-nut. No. 1,017,371; Feb. 13; Sp. p. 2524; Gaz. vol. 175; p. 427.
Beck, Lavergne. (See Beck, William and L.)
Beck, Louis, Norwood, Ohio. Rheostat. No. 1,045,361; Nov. 26; Gaz. vol. 184; p. 896.
Beck, Martin, *et al.* (See Bailey, Seth G., assignor.)
Beck, Michael, Minneapolis, Minn. Carbureting apparatus for explosive-engines. No. 1,029,740; June 18; Sp. p. 3638; Gaz. vol. 179; p. 641.
Beck, Michael, assignor of one-half to E. F. Freeman, Racine, Wis. Tap-holder and tap. No. 1,043,192; Nov. 5; Gaz. vol. 184; p. 52.
Beck, William and L., Etna, Pa. Tie and rail-fastener. No. 1,025,672; May 7; Sp. p. 1260; Gaz. vol. 178; p. 195.
Beck, William O., Weehawken, N. J., assignor to Western Electric Company, New York, N. Y. Watchcase-receiver. No. 1,026,196; May 14; Sp. p. 2444; Gaz. vol. 178; p. 410.
Becke, Max, assignor to Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany. Production of peculiar color effects on textile fabrics. No. 1,024,668; Apr. 30; Sp. p. 6315; Gaz. vol. 177; p. 1113.
Becken, Elmer C., Chicago, Ill. Punching implement. No. 1,043,503; Nov. 5; Gaz. vol. 184; p. 165.
Becker, Adolph, assignor to A. M. Schenk, Wheeling, W. Va. Gas-mixing valve for explosive-engines. No. 1,046,141; Dec. 3; Gaz. vol. 185; p. 118.
Becker, Anton, Columbus, Ohio. Tank-car. No. 1,028,181; June 4; Sp. p. 285; Gaz. vol. 179; p. 36.
Becker, Anton, assignor to The Ralston Steel Car Company, Columbus, Ohio. Floor-support and bolster for hopper-cars. No. 1,029,525; June 11; Sp. p. 3149; Gaz. vol. 179; p. 528.
Becker, August B., Freisburg, Tex. Brooder. No. 1,043,661; Nov 5; Gaz. vol. 184; p. 218.
Becker, Benjamin F., Glencoe, Ill. Suit-case. No. 1,023,238; Apr. 16; Sp. p. 3198; Gaz. vol. 177; p. 572.
Becker, Benjamin H., and J. Ciesla, assignors to James S. Kirk & Co., Chicago, Ill. Soap-press. No. 1,021,126; Mar. 26; Sp. p. 4497; Gaz. vol. 176; p. 829.

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Becker, Curt, *et al.* (See Adelt, Alfred, assignor.)
Becker, Ely, Brooklyn, N. Y. Sewed hand-bag. No. 1,021,298; Mar. 26; Sp. p. 4865; Gaz. vol. 176; p. 888.
Becker, Ernst and O., Iserlohn, Germany. Electroplating aluminium and its alloys. No. 1,014,560; Jan. 9; Sp. p. 3208; Gaz. vol. 174; p. 534.
Becker, Frederich W., New Athens, Ill. Lock-hinge. No. 1,018,691; Feb. 27; Sp. p. 5474; Gaz. vol. 175; p. 949.
Becker, George, New York, N. Y. Garment-cuff. No. 1,039,888; Oct. 1; Gaz. vol. 183; p. 73.
Becker, George, and N. Wolff, New York, N. Y. Shirt. No. 1,046,049; Dec. 3; Gaz. vol. 185; p. 86.
Becker, Harry, Baltimore, Md. Miner's lamp. No. 1,019,748; Mar. 12; Sp. p. 1607; Gaz. vol. 176; p. 281.
Becker, Henry A., Adrian, Minn. End-gate. No. 1,036,062; Aug. 20; Gaz. vol. 181; p. 630.
Becker, Henry C., Fort Riley, Kans. Non-refillable bottle. No. 1,040,848; Oct. 8; Gaz. vol. 183; p. 429.
Becker, Josef, *et al.* (See Adelt, Alfred, assignor.)
Becker, Karl E., and J. L. Knapp, Denver, Colo. Building material. No. 1,048,484; Dec. 31; Gaz. vol. 185; p. 1064.
Becker, Ludwig, Glasgow, Scotland. Sextant and the like. No. 1,041,575; Oct. 15; Gaz. vol. 183; p. 706.
Becker, Lyda, Indianapolis, Ind. Skirt-marker. No. 1,020,250; Mar. 12; Sp. p. 2650; Gaz. vol. 176; p. 449.
Becker, Mathias B., Chicago, Ill. Ornamenting prepared roofing. No. 1,024,549; Apr. 30; Sp. p. 6043; Gaz. vol. 177; p. 1073.
Becker, Mathias B., Chicago, Ill. Prepared roofing. No. 1,024,550; Apr. 30; Sp. p. 6045; Gaz. vol. 177; p. 1073.
Becker, Otto. (See Becker, Ernst and O.)
Becker, Walter W. (See Smith and Becker.)
Beckermann, Emmerich, Koblenz, Germany. Wheel. No. 1,044,005; Nov. 12; Gaz. vol. 184; p. 369.
Beckert, Frederick W., New Haven, Conn., assignor to The Greist Manufacturing Company. Tuck-creaser for sewing-machines. No. 1,046,250; Dec. 3; Gaz. vol. 185; p. 157.
Becket, Frederick M., assignor to Electro Metallurgical Company, Niagara Falls, N. Y. Refractory article and making it. No. 1,038,827; Sept. 17; Gaz. vol. 182; p. 628.
Beckett, Franklin S., Berkeley, Cal. Calculator. No. 1,042,755; Oct. 29; Gaz. vol. 183; p. 1174.
Beckfield, John C., Pittsburgh, Pa. Fuel-gas burner. No. 1,016,689; Feb. 6; Sp. p. 1407; Gaz. vol. 175; p. 217.
Beckman, Aaron, Lynn, Mass. Wax-applying device for heel-burnishing machines. No. 1,031,231; July 2; Gaz. vol. 180; p. 135.
Beckman, Frank E., Haverhill, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Grooving device for shoe-sewing machines. No. 1,030,767; June 25; Sp. p. 6124; Gaz. vol. 179; p. 1040.
Beckmann, Johannes, Altona, Ottensen, Germany. Electrical welding apparatus. No. 1,019,017; Mar. 5; Sp. p. 10; Gaz. vol. 176; p. 4.
Beckwith, Arthur K., assignor to Estate of P. D. Beckwith, Incorporated, Dowagiac, Mich. Joint for stoves or furnaces. No. 1,035,144; Aug. 13; Gaz. vol. 181; p. 277.
Beckwith, Charles P., assignor to Parke, Davis & Company, Detroit, Mich. Apparatus for discharging liquids in measured quantities. No. 1,030,378; June 25; Sp. p. 5052; Gaz. vol. 179; p. 901.
Beckwith, Edward P., Schenectady, N. Y., assignor to General Electric Company. Mounting filaments. No. 1,023,357; Apr. 16; Sp. p. 3431; Gaz. vol. 177; p. 613.
Beckwith, Walter C., Fostoria, Ohio. Inner tube for tire-casings. No. 1,016,122; Jan. 30; Sp. p. 6649; Gaz. vol. 174; p. 1156.
Beckworth, Effie, San Marcos, Tex. Supporting-bracket for freezing devices. No. 1,045,932; Dec. 3; Gaz. vol. 185; p. 47.
Bédard, Léon, Quebec, Quebec, Canada. Gas-cock. No. 1,018,350; Feb. 20; Sp. p. 4656; Gaz. vol. 175; p. 800.
Bedard, Lewis A., Boston, Mass. Buffer for automobile-doors. No. 1,022,651; Apr. 9; Sp. p. 1904; Gaz. vol. 177; p. 332.
Beddoes, Hubert, Philadelphia, Pa. Air-flushing apparatus. No. 1,014,363; Jan. 9; Sp. p. 2848; Gaz. vol. 174; p. 471.
Bedell, Charles H., Wollaston, Mass., assignor to Electric Boat Company, New York, N. Y. Periscope with compass attachment. No. 1,043,562; Nov. 5; Gaz. vol. 184; p. 185.
Bedell, Charles H., and G. E. Edgar, New London, Conn. Ventilating and cooling system for batteries. No. 1,036,063; Aug. 20; Gaz. vol. 181; p. 630.
Bedell, Orlando W., New York, N. Y., assignor to Ely-Norris Safe Company, Perth Amboy, N. J. Lock. No. 1,018,475; Feb. 27; Sp. p. 4953; Gaz. vol. 175; p. 875.
Bedell, Orlando W., New York, N. Y., assignor to Ely-Norris Safe Company, Perth Amboy, N. J. Lock. No. 1,038,268; Sept. 10; Gaz. vol. 182; p. 399.
Bedell, Orlando W., New York, N. Y., assignor to Ely-Norris Safe Company, Perth Amboy, N. J. Safe. No. 1,038,269; Sept. 10; Gaz. vol. 182; p. 399.
Bedford, Fred, and C. E. Williams, Sleaford, England. Conversion of unsaturated fatty acids, their glycerids, and other esters into the corresponding saturated compounds. No. 1,026,339; May 14; Sp. p. 2759; Gaz. vol. 178; p. 461.
Bedford Safety Razor Company. (See Christiansen, Hans, assignor.)
Bedford Safety Razor Company. (See Guppey, John P., assignor.)
Bedini, Jean, assignor of one-half to F. F. Proctor, Jr., New York, N. Y. Restaurant signaling device. No. 1,013,582; Jan. 2; Sp. p. 1058; Gaz. vol. 174; p. 171.
Bednarowicz, Theopihl, South Bend, Ind. Trolley-harp. No. 1,017,034; Feb. 13; Sp. p. 1783; Gaz. vol. 175; p. 310.
Beduhn, August J., Oshkosh, Wis. Saw-swage. No. 1,040,997; Oct. 15; Gaz. vol. 183; p. 514.
Beduwé, Franz, Liege, Belgium. Appliance for raising solid bodies. No. 1,042,189; Oct. 22; Gaz. vol. 183; p. 950.
Beebe, Edwin J. (See Eldridge and Beebe.)
Beebe, Frank, assignor of one-fifth to F. E. Willis, one-fifth to C. H. Atwood, one-fifth to F. W. Krech, and one-fifth to A. Brewer, Chicago, Ill. Combined counter-stiffener and arch-support. No. 1,017,730; Feb. 20; Sp. p. 3265; Gaz. vol. 175; p. 585.
Beebe, John D., assignor, by mesne assignments, to Briscoe Manufacturing Company, Detroit, Mich. Radiator-assembling machine. No. 1,025,897; May 7; Sp. p. 1770; Gaz. vol. 178; p. 272.
Beebe, John D., assignor, by mesne assignments, to Briscoe Manufacturing Company, Detroit, Mich. Assembling radiators. No. 1,025,898; May 7; Sp. p. 1773; Gaz. vol. 178; p. 272.
Beebe, John D., Detroit, Mich., assignor to A. C. Dallas & Son, Chicago, Ill. Tube-forming machine. No. 1,034,954; Aug. 6; Gaz. vol. 181; p. 185.
Beebe, Norman H., and H. E. Smith, Wichita, Kans., assignors to Lee Broom & Duster Company, Davenport, Iowa. Lip-clencher for broom-making machines. No. 1,033,374; July 23; Gaz. vol. 180; p. 989.
Beech, John M., Marshalltown, Iowa. Furnace-regulator. No. 1,048,129; Dec. 24; Gaz. vol. 185; p. 907.
Beech-Nut Packing Company *et al.* (See Arkell, Bartlett, assignor.)
Beech-Nut Packing Company *et al.* (See Lorenz, William A., assignor.)
Beech-Nut Packing Company *et al.* (See Merritt, Joseph, assignor.)
Beecher, Herbert P., assignor to Lyon Metallic Manufacturing Company, Aurora, Ill. Shelving. No. 1,024,922; Apr. 30; Sp. p. 6850; Gaz. vol. 177; p. 1204.
Beecher, Julius M., Sr., Belleville, Kans. Portable poultry-perch. No. 1,037,581; Sept. 3; Gaz. vol. 182; p. 136.
Beecher, Mary P., Bristol, Conn. Book-holder. No. 1,033,660; July 23; Gaz. vol. 180; p. 1083.
Beecher, Mary P., Bristol, Conn. Cover for coal-hods. No. 1,033,770; July 23; Gaz. vol. 180; p. 1116.
Beechlyn, John T., Lynn, Mass., assignor to General Electric Company. Arc-lamp hanger. No. 1,022,527; Apr. 9; Sp. p. 1635; Gaz. vol. 177; p. 290.
Beechlyn, John T., Lynn, Mass., assignor to General Electric Company. Arc-lamp globe. No. 1,034,955; Aug. 6; Gaz. vol. 181; p. 186.
Beede, Walter E., New York, N. Y. Electrical measuring instrument. No. 1,027,684; May 28; Sp. p. 5681; Gaz. vol. 178; p. 990.
Beede, Walter E., New York, N. Y. Electrical measuring instrument. No. 1,029,042; June 11; Sp. p. 2120; Gaz. vol. 179; p. 365.
Beehler, James F., St. Louis, Mo. Box-fastener. No. 1,022,575; Apr. 9; Sp. p. 1735; Gaz. vol. 177; p. 306.
Beehler, James F., St. Louis, Mo. Box-fastener. No. 1,022,576; Apr. 9; Sp. p. 1737; Gaz. vol. 177; p. 306.
Beehler, William, assignor of one-half to B. K. Boyd, Owosso, Mich. Crate. No. 1,022,814; Apr. 9; Sp. p. 2277; Gaz. vol. 177; p. 389.
Beeken, Lewis L., Pittsburgh, Pa. Hydraulic classifier. No. 1,035,145; Aug. 13; Gaz. vol. 181; p. 277.
Beekman, John N., Brooklyn, N. Y. Ice-cream freezer. No. 1,017,494; Feb. 13; Sp. p. 2793; Gaz. vol. 175; p. 471.
Beeler, Abraham T., Kansas City, Mo. Wheel for motor-vehicles. No. 1,016,200; Jan. 30; Sp. p. 6788; Gaz. vol. 174; p. 1180.
Beeler, Herbert L., assignor to The John B. Morris Machine Tool Company, Cincinnati, Ohio. Speed-changing mechanism. No. 1,015,986; Jan. 30; Sp. p. 6363; Gaz. vol. 174; p. 1108.
Beeler, Samuel E., assignor to Frick Company, Waynesboro, Pa. Engine-valve gear. No. 1,040,247; Oct. 1; Gaz. vol. 183; p. 193.
Beeman, Clarence E., Minneapolis, Minn., assignor to The Sewer Deodorizing Company. Apparatus for fumigating, deodorizing, and disinfecting sewers and the like. No. 1,034,862; Aug. 6; Gaz. vol. 181; p. 156.
Beeman, Edwin R. (See Stainfield and Beeman.)
Beeman, George C., and T. Kelley, Winnipeg, Manitoba, Canada. Disinfecting apparatus. No. 1,036,782; Aug. 27; Gaz. vol. 181; p. 910.

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Beeman, Marcus M., assignor to The Spirella Company, Meadville, Pa. Device for straightening metal strips. No. 1,034,059; July 30; Gaz. vol. 180; p. 1247.
Beeman, Marcus M., assignor to The Spirella Company, Meadville, Pa. Device for untwisting metal strips. No. 1,034,060; July 30; Gaz. vol. 180; p. 1248.
Beeman, Marcus M., Meadville, Pa., assignor to The Spirella Company. Garment-stay. No. 1,038,828; Sept. 17; Gaz. vol. 182; p. 628.
Beeman, Marcus M., and J. F. Kitchen, assignors to The Spirella Company, Meadville, Pa. Machine for making wire garment-stays. No. 1,042,756; Oct. 29; Gaz. vol. 183; p. 1174.
Beeman, Marcus M., and J. F. Kitchen, assignors to The Spirella Company, Meadville, Pa. Machine for uncoiling and straightening metal strips. No. 1,048,793; Dec. 31; Gaz. vol. 185; p. 1173.
Beeman, Mark. (See Dougherty and Beeman.)
Beemer, Frank, assignor to Standard Roller Bearing Company, Philadelphia, Pa. Holder for metal-ball making. No. 1,014,746; Jan. 16; Sp. p. 3685; Gaz. vol. 174; p. 629.
Beemer, Frank, assignor to Standard Roller Bearing Company, Philadelphia, Pa. Ball-grinding machine. No. 1,014,747; Jan. 16; Sp. p. 3686; Gaz. vol. 174; p. 629.
Beemer, George S., Meeker, Colo. Trap-setting implement. No. 1,040,998; Oct. 15; Gaz. vol. 183; p. 514.
Beene, John L., assignor of one-third to G. C. Knight and two-thirds to S. J. Price, Centrahoma, Okla. Draft-evener. No. 1,031,164; July 2; Gaz. vol. 180; p. 112.
Beer, Hans, assignor to Metallpapier-Broncefarben-Blattmetallwerke Aktiengesellschaft, Munich, Germany. Manufacturing leaf metal foils. No. 1,023,713; Apr. 16; Sp. p. 4126; Gaz. vol. 177; p. 724.
Beers, Albert J., East Brunswick, Victoria, Australia. Molding-machine. No. 1,039,635; Sept. 24; Gaz. vol. 182; p. 922.
Beers, Alexander W., Bayonne, N. J. Folding box. No. 1,013,110; Jan. 2; Sp. p. 31; Gaz. vol. 174; p. 8.
Beers, Alexander W., Bayonne, N. J. Folding box. No. 1,032,645; July 16; Gaz. vol. 180; p. 704.
Beers, Charles F., *et al.* (See Koerner, Ferdinand H., assignor.)
Beers, Charles F., Newark, N. J. Lock-washer. No. 1,025,958; May 14; Sp. p. 1902; Gaz. vol. 178; p. 327.
Beers, Charles F., assignor of one-third to J. Hensler and one-third to A. F. Hensler, Newark, N. J. Journal-box. No. 1,017,278; Feb. 13; Sp. p. 2329; Gaz. vol. 175; p. 396.
Beery, William H., Celina, Ohio. Flying-machine. No. 1,013,268; Jan. 2; Sp. p. 388; Gaz. vol. 174; p. 62.
Beery, William H., Celina, Ohio. Culvert-mold. No. 1,043,193; Nov. 5; Gaz. vol. 184; p. 53.
Bees, William H., assignor to Goetz & Flodin Manufacturing Company, Chicago, Ill. Lock-valve. No. 1,014,203; Jan. 9; Sp. p. 2458; Gaz. vol. 174; p. 413.
Beezley, Charles F., Jr., assignor to R. R. Donnelley & Sons Company, Chicago, Ill. Catalogue. No. 1,029,526; June 11; Sp. p. 3151; Gaz. vol. 179; p. 528.
Beglinger, Alfon W., Crafton, Pa. Curtain-pole-removing device. No. 1,024,968; Apr. 30; Sp. p. 6935; Gaz. vol. 177; p. 1219.
Beguelin, Henry G., St. Louis, Mo. Variable-speed driving mechanism for automobiles. No. 1,033,521; July 23; Gaz. vol. 180; p. 1036.
Behm, Henry, Jersey City, N. J. Vibrator. No. 1,025,236; May 7; Sp. p. 279; Gaz. vol. 178; p. 46.
Behm, Walther, New York, N. Y. Nozzle for vacuum-cleaners. No. 1,013,364; Jan. 2; Sp. p. 605; Gaz. vol. 174; p. 96.
Behm, William, Madison, Wis. Cheese-making machine. No. 1,044,851; Nov. 19; Gaz. vol. 184; p. 690.
Behn, Guido G. (See Coffin and Behn.)
Behning Piano Company. (See Brand and Santos, assignors.)
Behr, Bernhard, Dresden, Germany. Device for adjusting slides in calculating-machines. No. 1,013,981; Jan. 9; Sp. p. 1998; Gaz. vol. 174; p. 338.
Behr, Bernhard, Dresden, Germany. Means for the transmission of tens in Thomas calculating-machines. No. 1,041,231; Oct. 15; Gaz. vol. 183; p. 592.
Behr, Bernhard, Dresden, Germany. Calculating-machine with printing device. No. 1,041,576; Oct. 15; Gaz. vol. 183; p. 706.
Behr, Bernhard C. M., assignor to Aktiengesellschaft vorm. Seidel & Naumann, Dresden, Germany. Thomas calculating-machine with device for moving the keys. No. 1,034,756; Aug. 6; Gaz. vol. 181; p. 119.
Behr, Hans C., Johannesburg, Transvaal. Pneumatic percussive apparatus. No. 1,024,669; Apr. 30; Sp. p. 6317; Gaz. vol. 177; p. 1113.
Behr, Hans C., Johannesburg, Transvaal. Pneumatic percussive apparatus. No. 1,026,555; May 14; Sp. p. 3208; Gaz. vol. 178; p. 530.
Behr, Hans C., Johannesburg, Transvaal. Pneumatic stamping plant. No. 1,034,863; Aug. 6; Gaz. vol. 181; p. 156.
Behr, Hans C., Johannesburg, Transvaal. Pneumatic ore-stamp. No. 1,038,521; Sept. 17; Gaz. vol. 182; p. 520.
Behr, Hans C., Johannesburg, Transvaal. Ore-feeder. No. 1,047,369; Dec. 17; Gaz. vol. 185; p. 617.
Behr, Hans C., Johannesburg, Transvaal. Pneumatic percussive machine. No. 1,048,275; Dec. 24; Gaz. vol. 185; p. 955.
Behr, Hans C., and C. F. E. O. Schmitt, Johannesburg, Transvaal. Apparatus for subdividing streams of pulp and other liquids. No. 1,020,251; Mar. 12; Sp. p. 2652; Gaz. vol. 176; p. 450.
Behrend, Bernard A., Norwood, Ohio, assignor to Allis-Chalmers Company and The Bullock Electric Manufacturing Company. Dynamo-electric machine. No. 1,028,985; June 11; Sp. p. 1993; Gaz. vol. 179; p. 344.
Behrend, Frederick. (See Heim, Richard, assignor.)
Behrendt, Barnim L., Newark, N. J. Knockdown box. No. 1,040,492; Oct. 8; Gaz. vol. 183; p. 305.
Behrendt, Barnim L., Newark, N. J. Box. No. 1,048,027; Dec. 24; Gaz. vol. 185; p. 872.
Behrendt, Carl J. (See Behrendt, Fred W. and C. J.)
Behrendt, Fred W. and C. J., Zanesville, Ohio. Weeding device. No. 1,039,012; Sept. 17; Gaz. vol. 182; p. 690.
Behrens, George E., Ivoryton, Conn., assignor to J. Veit, New York, N. Y. Crucible-furnace. No. 1,013,472; Jan. 2; Sp. p. 838; Gaz. vol. 174; p. 134.
Behrens, Heinrich P. F., Paris, France. Speed-indicator for motor-vehicles and the like. No. 1,048,276; Dec. 24; Gaz. vol. 185; p. 955.
Behrens, Paul, Tacoma, Wash. Flying-machine. No. 1,042,311; Oct. 22; Gaz. vol. 183; p. 990.
Behrens, Sophia M., Hartsdale, N. Y. Antislipping boot for horses. No. 1,044,432; Nov. 12; Gaz. vol. 184; p. 514.
Behringer, Emil and H., Brooklyn, N. Y. Manufacture of radiator-tubes. No. 1,029,099; June 11; Sp. p. 2241; Gaz. vol. 179; p. 383.
Behringer, Herman. (See Behringer, Emil and H.)
Behrmann, Fredrich, Ridgeville township, Henry county, Ohio. Feed-regulator. No. 1,023,411; Apr. 16; Sp. p. 3543; Gaz. vol. 177; p. 631.
Beier, Frank J., Elkhart, Ind., assignor to Alwin Manufacturing Company, Chicago, Ill. Folding perambulator or baby-carriage. No. 1,038,829; Sept. 17; Gaz. vol. 182; p. 629.
Beier, Paul. (See Weber and Beier.)
Beighlee, Henry E., East Cleveland, Ohio. Electric pyrometer. No. 1,048,930; Dec. 31; Gaz. vol. 185; p. 1219.
Beightol, Alton. (See Swan and Beightol.)
Beilstein, William, assignor of one-half to C. Kranz, Berlin, Ontario, Canada. Sleigh attachment. No. 1,038,716; Sept. 17; Gaz. vol. 182; p. 589.
Bein, Emile J., Newark, N. J. Abrasive apparatus. No. 1,036,783; Aug. 27; Gaz. vol. 181; p. 911.
Bein, Emile J., Newark, N. J. Joining abrasive sheets. No. 1,037,582; Sept. 3; Gaz. vol. 182; p. 136.
Beinkamp, Frank B., Cincinnati, Ohio, and L. L. Harding, Canon City, Colo., assignors to The Vocalstyle Music Company, Cincinnati, Ohio. Tone-volume indicator. No. 1,022,528; Apr. 9; Sp. p. 1636; Gaz. vol. 177; p. 291.
Beintema, Tjebbe D., and D. De Rool, Oskaloosa, Iowa. Automatic motor-controller. No. 1,015,283; Jan. 23; Sp. p. 4836; Gaz. vol. 174; p. 838.
Beisler, Herman E., assignor to McGill Manufacturing Company, Valparaiso, Ind. Support or holder for incandescent electric lights. No. 1,044,852; Nov. 19; Gaz. vol. 184; p. 690.
Beistle, Martin L., Shippensburg, Pa. Child's chair. No. 1,022,767; Apr. 9; Sp. p. 2181; Gaz. vol. 177; p. 374.
Beitler, Henry C. (See Beitler, Jesse J., assignor.)
Beitler, Jesse J., New York, N. Y., assignor to H. C. Beitler, Chicago, Ill. Rubber tire. No. 1,036,516; Aug. 20; Gaz. vol. 181; p. 789.
Beitz, Henry C., Peoria, Ill. Back-rest attachment for beds. No. 1,046,430; Dec. 10; Gaz. vol. 185; p. 257.
Beitzel, David J. (See Watkins, Arthur G., assignor.)
Bekkevar, Olaf M., Port Townsend, Wash. Umbrella-carrier. No. 1,041,577; Oct. 15; Gaz. vol. 183; p. 706.
Belanger, Saluste, Salem, Mass. Machine for digging trenches. No. 1,042,997; Oct. 29; Gaz. vol. 183; p. 1256.
Bélanger, Victor, Marshfield, assignor to New Era Spinning Co., Boston, Mass. Device for spinning and twisting yarn. No. 1,020,179; Mar. 12; Sp. p. 2499; Gaz. vol. 176; p. 426.
Belasco, Jacob, New York, N. Y. Lady's hat-fastener. No. 1,017,372; Feb. 13; Sp. p. 2525; Gaz. vol. 175; p. 427.
Belcher, George E. (See Leighton, Arthur M., assignor.)
Belcher, Thomas H., Chicago, and F. D. Wilson, Oak Park, Ill.; said Belcher assignor to said Wilson. Paper-making machine and drying paper. No. 1,035,678; Aug. 13; Gaz. vol. 181; p. 462.
Belcher, Wallace E., Chicago, Ill. Wire-rope clamp. No. 1,027,234; May 21; Sp. p. 4759; Gaz. vol. 178; p. 801.
Belcher, Warren J., assignor to The Whitney Manufacturing Company, Hartford, Conn. Drive-chain. No. 1,020,180; Mar. 12; Sp. p. 2505; Gaz. vol. 176; p. 426.
Belden, David E., assignor to The Jewell Manufacturing Company, Auburn, N. Y. Thermostat. No. 1,048,277; Dec. 24; Gaz. vol. 185; p. 956.

Alphabetical list of patentees—Continued.

Belden, Edward H., Pittsburgh, Pa. Internal-combustion engine. No. 1,017,073; Feb. 13; Sp. p. 1873; Gaz. vol. 175; p. 325.
Belden, Edward H., Pittsburgh, Pa. Internal-combustion engine. No. 1,017,074; Feb. 13; Sp. p. 1884; Gaz. vol. 175; p. 325.
Belden, Edward H., Pittsburgh, Pa. Internal-combustion engine. No. 1,017,075; Feb. 13; Sp. 1890; Gaz. vol. 175; p. 326.
Belden, Edward H., assignor to Belden Engineering Company, Pittsburgh, Pa. Internal-combustion engine. No. 1,045,500; Nov. 26; Gaz. vol. 184; p. 945.
Belden Engineering Company. (See Belden, Edward H., assignor.)
Belden, Hawley T., Toledo, Ohio. Friction-clutch for loose pulleys. No. 1,037,193; Sept. 3; Gaz. vol. 182; p. 5.
Belden Manufacturing Company. (See Lendl, John H., assignor.)
Belding and Franklin Machine Company. (See Jablesnik, Louis C., assignor.)
Belding, George A., Missoula, Mont. Culvert. No. 1,036,546; Aug. 27; Gaz. vol. 181; p. 832.
Belding, Mary B., administratrix. (See Belding and Zinslen.)
Belding, Thomas C., deceased, (M. B. Belding, administratrix,) and J. J. Zinslen, assignors to The Canton Art Metal Company, Canton, Ohio. Ridge-roll-forming die. No. 1,045,089; Nov. 19; Gaz. vol. 184; p. 772.
Beler, Adolf, assignor to Beler Water Heater Co., Pittsburgh, Pa. Instantaneous gas hot-water heater. No. 1,025,777; May 7; Sp. p. 1465; Gaz. vol. 178; p. 231.
Beler, Adolf, assignor to Beler Water Heater Co., Pittsburgh, Pa. Water-heater. No. 1,032,646; July 16; Gaz. vol. 180; p. 704.
Beler Water Heater Co. (See Beler, Adolf, assignor.)
Belew, Cuba A., San Diego, Cal. Pneumatic-tire protector. No. 1,027,800; May 28; Sp. p. 5918; Gaz. vol. 178; p. 1028.
Belford, Clayton E. (See Wilt and Belford.)
Belford, Clayton E. (See Wilt, Dorah S. and F. P. F., assignors.)
Belford, Oscar, Golconda, Ill. Self-dumping mining-tub. No. 1,039,688; Oct. 1; Gaz. vol. 183; p. 5.
Belhommet, Frédéric, Brussels, Belgium. Preserving the yolk of eggs. No. 1,024,056; Apr. 23; Sp. p. 4899; Gaz. vol. 177; p. 868.
Belk, Baley P., *et al.* (See Thomas, Martin E., assignor.)
Belk, Robert L., Waxhaw, N. C. Wire-stretcher. No. 1,014,035; Jan. 9; Sp. p. 2124; Gaz. vol. 174; p. 355.
Belknap, Charles H., New York, N. Y., assignor to Armstrong Cork Company, Pittsburgh, Pa. Heat-insulating material and manufacturing the same. No. 1,045,933; Dec. 3; Gaz. vol. 185; p. 47.
Belknap, Edwin D. (See Belknap, Frank D. and E. D.)
Belknap, Frank D., New York, N. Y., and E. D. Belknap, East Orange, N. J. Paper-stencil and producing same. No. 1,045,934; Dec. 3; Gaz. vol. 185; p. 47.
Belknap, John A., Anamosa, Iowa. Spade-step. No. 1,033,980; July 30; Gaz. vol. 180; p. 1218.
Belknap, Thomas M., Omaha, Nebr. Postage stamping and recording apparatus. No. 1,024,389; Apr. 23; Sp p. 5590; Gaz. vol. 177; p. 980.
Bell, Albert C., assignor to Hardinge Brothers, Chicago, Ill. Signaling system. No. 1,042,385; Oct. 29; Gaz. vol. 183; p. 1042.
Bell, Alonzo C., Westfield, N. J. Alternating-current motor. No. 1,015,534; Jan. 23; Sp. p. 5390; Gaz. vol. 174; p. 923.
Bell, Andrew W. and W. A., Holyoke, Mass. Combined evener and stop-motion for combing-machines. No. 1,018,029; Feb. 20; Sp. p. 3992; Gaz. vol. 175; p. 691.
Bell, Arthur, Jersey City, N. J. Cut-off for box-covering machines. No. 1,041,409; Oct. 15; Gaz. vol. 183; p. 652.
Bell, Arthur H., Denver Colo. Brooder. No. 1,020,252; Mar. 12; Sp. p. 2655; Gaz. vol. 176; p. 450.
Bell, Bradley W. (See Ohmstede, August, assignor.)
Bell, Britton. (See Wright and Bell.)
Bell, Charles H., Thomaston, Conn., assignor to F. W. Hillard, Tottenville, N. Y. Type-writing machine. No. 1,035,409; Aug. 13; Gaz. vol. 181; p. 372.
Bell, Charles H., assignor to Seth Thomas Clock Company, Thomaston, Conn. Stem winding and setting mechanism for clocks. No. 1,036,954; Aug. 27; Gaz. vol. 181; p. 967.
Bell, Charles W., Bartlesville, Okla. Tool for oil and like wells. No. 1,036,547; Aug. 27; Gaz. vol. 181; p. 832.
Bell, Charles W., assignor to The Electric Storage Battery Company, Philadelphia, Pa. Means for charging storage-battery cells. No. 1,023,498; Apr. 16; Sp. p. 3716; Gaz. vol. 177; p. 657.
Bell, Eddie, and R. E. Menteer, Frederick, Kans. Horse-releaser. No. 1,032,981; July 16; Gaz. vol. 180; p. 816.
Bell, Edwin H., Chicago, Ill. Manufacturing tie-plates. No. 1,044,853; Nov. 19; Gaz. vol. 184; p. 691.
Bell, Ernest E., Glen Ridge, N. J., assignor to The Concealed Transom Lift Company, New York, N. Y. Transom-operator. No. 1,046,545; Dec. 10; Gaz. vol. 185; p. 299.
Bell, Fred, Detroit, Tex. Mail-box hanger. No. 1,046,251; Dec. 3; Gaz. vol. 185; p. 158.
Bell, Fred C., Alameda, Cal. Power-producing plant. No. 1,047,903; Dec. 17; Gaz. vol. 185; p. 803.
Bell, Fred C., Alameda, assignor to Pacific Refrigerating Machine Company, San Francisco, Cal. Accumulator and separator attachment for gas-liquefying apparatus. No. 1,024,433; Apr. 23; Sp. p. 5713; Gaz. vol. 177; p. 995.
Bell, Frederick J. T., Accrington, England. Sewing-machine. No. 1,026,897; May 21; Sp. p. 3985; Gaz. vol. 178; p. 686.
Bell, Harmon. (See Loftus, Thomas J., assignor.)
Bell, Harvey H., Rochester, Minn. Fence-post. No. 1,037,415; Sept. 3; Gaz. vol. 182; p. 80.
Bell, Henry W., *et al.* (See Curtis, Oliver W., assignor.)
Bell, Herbert, East Boston, Mass. Combination beer-cock. No. 1,020,877; Mar. 19; Sp. p. 3987; Gaz. vol. 176; p. 694.
Bell & Howell Co. (See Howell, Albert S., assignor.)
Bell, Isaac A., Chicago, Ill. Developing-tank. No. 1,044,433; Nov. 12; Gaz. vol. 184; p. 514.
Bell, J. E. (See Ashby, Theodore J., assignor.)
Bell, John A., G. R. Wilton, and G. P. Griffith, Los Angeles, Cal. Paving. No. 1,041,578; Oct. 15; Gaz. vol. 183; p. 707.
Bell, John C., Harrison, N. J. Making-wire for paper-making. No. 1,020,073; Mar. 12; Sp. p. 2267; Gaz. vol. 176; p. 390.
Bell, John D., Arcadia, Kans. Torpedo-placing machine. No. 1,014,561; Jan. 9; Sp. p. 3208; Gaz. vol. 174; p. 534.
Bell, John E., Barberton, Ohio, assignor to The Babcock & Wilcox Company, New York, N. Y. Superheater-boiler. No. 1,036,517; Aug. 20; Gaz. vol. 181; p. 789.
Bell, John E., assignor to The Babcock & Wilcox Company, New York, N. Y. Water-tube boiler. No. 1,045,114; Nov. 26; Gaz. vol. 184; p. 810.
Bell, John E., assignor to The Babcock & Wilcox Company, New York, N. Y. Superheater-boiler. No. 1,045,248; Nov. 26; Gaz. vol. 184; p. 857.
Bell, Nina J., (now by marriage Nina J. Litherbury,) Los Angeles, Cal. Foldable wardrobe. No. 1,013,729; Jan. 2; Sp. p. 1411; Gaz. vol. 174; p. 222.
Bell, Ralcy H., New York, N. Y. Collapsible capsule. No. 1,023,499; Apr. 16; Sp. p. 3717; Gaz. vol. 177; p. 658.
Bell, Rollo R., Wichita, Kans. Front-axle drive. No. 1,017,128; Feb. 13; Sp. p. 2001; Gaz. vol. 175; p. 344.
Bell, Samuel J. (See Hayden and Bell.)
Bell, Samuel R., Beaumont, Tex. Ice-making apparatus. No. 1,049,197; Dec. 31; Gaz. vol. 185; p. 1310.
Bell, Stuart E., Los Angeles, Cal. Wire nail. No. 1,029,574; June 11; Sp. p. 3254; Gaz. vol. 179; p. 546.
Bell, Thomas, Fall River, Mass., and E. Brophy, Tiverton, R. I. Fire-alarm. No. 1,020,074; Mar. 12; Sp. p. 2268; Gaz. vol. 176; p. 390.
Bell, Thomas R., *et al.* (See Stuller, William L., assignor.)
Bell, Walter J., Los Angeles, Cal. Sterilizer. No. 1,032,647; July 16; Gaz. vol. 180; p. 704.
Bell, William A. (See Bell, Andrew W. and W. A.)
Bell, William H., assignor to O. J. Karsch, New York, N. Y. Automobile-chassis. No. 1,014,562; Jan. 9; Sp. p. 3210; Gaz. vol. 174; p. 534.
Bell, William N., Norfolk, Va. Ship locater and raiser. No. 1,021,818; Apr. 2; Sp. p. 148; Gaz. vol. 177; p. 25.
Bellamore, David H., New York, N. Y. Automobile bank-vehicle. No. 1,027,978; May 28; Sp. p. 6343; Gaz. vol. 178; p. 1089.
Bellamy, Charles H., Philadelphia, Pa., assignor to Concrete & Clay Products Company. Manufacture of tiles. No. 1,019,414; Mar. 5; Sp. p. 959; Gaz. vol. 176; p. 139.
Bellamy, John B., assignor to Hazel-Atlas Glass Company, Wheeling, W. Va. Cover for hermetically closing jars or vessels. No. 1,025,942; May 7; Sp. p. 1859; Gaz. vol. 178; p. 287.
Bellamy, Raymond, Moores Hill, Ind. Gas-generator. No. 1,017,495; Feb. 13; Sp. p. 2796; Gaz. vol. 175; p. 472.
Bellefeuille, Antoni, Lowell, Mass. Spring-bed. No. 1,027,170; May 21; Sp. p. 4631; Gaz. vol. 178; p. 777.
Bellem, Louis H. L., and G. J. Brégéras, Neuilly-sur-Seine, France. Pump-feeding mechanism for internal-combustion engines. No. 1,036,424; Aug. 20; Gaz. vol. 181; p. 758.
Bellem, Louis H. L., and G. J. B. Brégéras, Neuilly-sur-Seine, France. Internal-combustion engine. No. 1,038,830; Sept. 17; Gaz. vol. 182; p. 629.
Belles, Frank I., Noxen, Pa. Invalid's rest. No. 1,028,664; June 4; Sp. p. 1299; Gaz. vol. 179; p. 199.
Béllet, Ferdinand, Paris, France. Furnace for making ultramarine blues. No. 1,014,689; Jan. 16; Sp. p. 3569; Gaz. vol. 174; p. 610.
Belleville Baler Company. (See Trabue, Luther, assignor.)
Bellew, John J., Bluffton, Ark. Fire-sprayer. No. 1,031,104; July 2; Gaz. vol. 180; p. 91.
Belley, John, assignor of one-half to J. Gerö, Passaic, N. J. Fan for baby-carriages. No. 1,027,801; May 28; Sp. p. 5920; Gaz. vol. 178; p. 1028.
Bellhouse, Thomas F., assignor of one-half to L. S. Pratt, Sacramento, Cal. Train-air-signal indicator. No. 1,030,454; June 25; Sp. p. 5218; Gaz. vol. 179; p. 928.
Bellingham Brass Mfg. Co. (See Charroin, Frank B., assignor.)
Bellingham, John (See Yourelle and Bellingham.)

Alphabetical list of patentees—Continued.

Bellmore, Philip H., Missoula, Mont. Steering-gear for automobiles. No. 1,014,439; Jan. 9; Sp. p. 2993; Gaz. vol. 174; p. 496.
Bellon, Georges A. P., Vincennes, France. Torch. No. 1,041,579; Oct. 15; Gaz. vol. 183; p. 707.
Belluomini, John V., Oakland, and A. Marcucci, San Francisco, assignors of one-fourth to O. F. Breiling and one-fourth to E. J. Breiling, Oakland, Cal. Quick-release wrench. No. 1,019,939; Mar. 12; Sp. p. 2000; Gaz. vol. 176; p. 345.
Belt, Alonzo L., Cincinnati, Ohio. Bumping-post. No. 1,027,098; May 21; Sp. p. 4483; Gaz. vol. 178; p. 756.
Belt, Francis A., Cincinnati, Ohio. Sack-cleaning machine. No. 1,039,082; Sept. 24; Gaz. vol. 182; p. 728.
Belt, Fred R., *et al.* (See Makarhof, John A., assignor.)
Belton, Guy M., Detroit, assignor of one-half to C. D. Brown, Port Huron, Mich. Expansion-shell for screws. No. 1,032,106; July 9; Gaz. vol. 180; p. 475.
Beltramo, Paolo. (See Bramanti-Mattei and Beltramo.)
Beltzer, Lewis H., Hennessey, Okla. Cultivator. No. 1,040,999; Oct. 15; Gaz. vol. 183; p. 514.
Beltzer, Lewis H., Hennessey, Okla. Check-row seed-planter. No. 1,041,000; Oct. 15; Gaz. vol. 183; p. 514.
Belz, Louis C., Philadelphia, Pa. Hair-pin. No. 1,026,142; May 14; Sp. p. 2322; Gaz. vol. 178; p. 392.
Bemberg, Aktiengesellschaft, J. P. (See Schreiner, Ludwig, assignor.)
Bemis, Albert L., Worcester, Mass. Bench-vise. No. 1,034,568; Aug. 6; Gaz. vol. 181; p. 56.
Bemis, Ella M., executrix. (See Bemis, Sumner A.)
Bemis, Gilbert C., assignor of one-half to E. F. Fletcher, Worcester, Mass. Broom. No. 1,028,182; June 4; Sp. p. 286; Gaz. vol. 179; p. 36.
Bemis, John M. (See Tribe and Bemis.)
Bemis, Sumner A., deceased; E. M. Bemis, executrix, Springfield, Mass. Ice-scraping attachment for trolleys. No. 1,046,409; Dec. 3; Gaz. vol. 185; p. 214.
Bemis, Thomas, Indianapolis, Ind. Saw-gage. No. 1,028,529; June 4; Sp. p. 1021; Gaz. vol. 179; p. 155.
Bemis, Thomas, Indianapolis, Ind., assignor, by mesne assignments, to American Pneumatic Service Company, Boston, Mass. Pneumatic-despatch apparatus. No. 1,048,931; Dec. 31; Gaz. vol. 185; p. 1220.
Bemish, John A., Rochester, N. Y. Vacuum-trap. No. 1,013,730; Jan. 2; Sp. p. 1413; Gaz. vol. 174; p. 222.
Bemish, John A., Rochester, N. Y. Radiator-valve. No. 1,044,729; Nov. 19; Gaz. vol. 184; p. 647.
Bemmerer, August, San Francisco, Cal. Razor. No. 1,044,730; Nov. 19; Gaz. vol. 184; p. 648.
Bemmerer, August, San Francisco, Cal. Safety-razor. No. 1,049,198; Dec. 31; Gaz. vol. 185; p. 1310.
Ben. Day, Inc. (See Day, Benjamin, assignor.)
Benbow, C. A. (See Merrill, Ira J., assignor.)
Benbow, Charles A., Portland, Oreg. Automatic stock or animal release. No. 1,027,307; May 21; Sp. p. 4908; Gaz. vol. 178; p. 826.
Benda, Ludwig. (See Ehrlich and Benda.)
Benda, Ludwig, Frankfort-on-the-Main, assignor to Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany. 5-nitro-2-aminobenzene-1-arsinic acid. No. 1,036,784; Aug. 27; Gaz. vol. 181; p. 911.
Benda, Ludwig, Frankfort-on-the-Main, assignor to Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany. 2.5-diaminobenzene-arsinic acid. No. 1,040,260; Oct. 8; Gaz. vol. 183; p. 227.
Bendelari, Arthur E., Joplin, Mo. Collapsible box or package. No. 1,020,878; Mar. 19; Sp. p. 3988; Gaz. vol. 176; p. 695.
Bendelari, Frederico N., Cleveland, Ohio. Bowling-ball. No. 1,026,069; May 14; Sp. p. 2168; Gaz. vol. 178; p. 366.
Bender, Elmore W., Los Angeles, Cal. Controlling device for electric-motor vehicles. No. 1,016,980; Feb. 13; Sp. p. 1671; Gaz. vol. 175; p. 293.
Bender, Elmore W., Los Angeles, Cal. Electric-motor vehicle. No. 1,017,198; Feb. 13; Sp. p. 2154; Gaz. vol. 175; p. 368.
Bender, Jacob S., assignor to D. W. Rider, Kansas City, Mo. Grain-door for box-cars. No. 1,045,249; Nov. 26; Gaz. vol. 184; p. 857.
Bender, John B., assignor to C. W. Neilsen, trustee, Toledo, Ohio. Compressor. No. 1,019,749; Mar. 12; Sp. p. 1609; Gaz. vol. 176; p. 281.
Bender, Lillian M., Seattle, Wash. Face-mask. No. 1,023,358; Apr. 16; Sp. p. 3433; Gaz. vol. 177; p. 613.
Bender Shoe Company. (See Scanlon, James A., assignor.)
Bendig, Charles R., Philadelphia, Pa. Hair-pin. No. 1,015,284; Jan. 23; Sp. p. 4839; Gaz. vol. 174; p. 839.
Bendix, Max, Cologne, Germany. Protector for incandescent mantles. No. 1,016,391; Feb. 6; Sp. p. 344; Gaz. vol. 175; p. 55.
Benedetti, George, Dunlevy, Pa. Bed-spring. No. 1,018,865; Feb. 27; Sp. p. 5848; Gaz. vol. 175; p. 1009.
Benedict, Floyd L., South Knoxville, Tenn. Steam-generator. No. 1,047,152; Dec. 17; Gaz. vol. 185; p. 537.
Benedict, James Z., Farley, Iowa. Elevator-way. No. 1,034,061; July 30; Gaz. vol. 180; p. 1248.
Benedict, Myron C. (See Buck and Benedict.)
Benedict, Richard G., Holyoke, Mass. Paper-making machine. No. 1,032,107; July 9; Gaz. vol. 180; p. 475.
Beneke, Richard, assignor to Limited Company Herm. Löhnert, Aktiengesellschaft, Bromberg, Germany. Compound ball-mill. No. 1,017,946; Feb. 20; Sp. p. 3814; Gaz. vol. 175; p. 662.
Benét, Laurence V., and H. A. Mercié, Paris, France. Cartridge-case extractor. No. 1,041,410; Oct. 15; Gaz. vol. 183; p. 653.
Bengough, James, assignor to The Carter-Crume Co., Limited, Niagara Falls, N. Y. Web-perforating mechanism. No. 1,018,155; Feb. 20; Sp. p. 4282; Gaz. vol. 175; p. 735.
Bengough, James, assignor to The Carter-Crume Company, Limited, Niagara Falls, N. Y. Numbering apparatus. No. 1,032,807; July 16; Gaz. vol. 180; p. 760.
Bengs, William F., Aberdeen, S. D. Horse-detacher. No. 1,034,569; Aug. 6; Gaz. vol. 181; p. 57.
Benham, Elijah B., New London, Conn., assignor to Hydrocarbon Converter Company, New York, N. Y. Vaporizer. No. 1,015,285; Jan. 23; Sp. p. 4841; Gaz. vol. 174; p. 839.
Benham, Elijah B., New London, Conn., assignor to Hydrocarbon Converter Company, New York, N. Y. Method of and apparatus for converting liquid hydrocarbons into gas or vapor. No. 1,040,124; Oct. 1; Gaz. vol. 183; p. 152.
Benham, Elijah B., New London, Conn., assignor to Hydrocarbon Converter Company, New York, N. Y. Device for vaporizing or gasifying hydrocarbon liquids. No. 1,047,153; Dec. 17; Gaz. vol. 185; p. 538.
Benham, William B., Washington, D. C. Letter-box. No. 1,031,513; July 2; Gaz. vol. 180; p. 231.
Benhoff, Adam, assignor of one-half to C. F. Smith, Canton, Md. Detachable cue-tip. No. 1,022,172; Apr. 2; Sp. p. 892; Gaz. vol. 177; p. 142.
Benicia Iron Works. (See Bank, Edward C., assignor.)
Benincasa, Nicholas, Pittsburgh, Pa. Smoke-diluter. No. 1,038,270; Sept. 10; Gaz. vol. 182; p. 400.
Benjamin, Bert R. (See Dangel and Benjamin.)
Benjamin, Bert R., Oak Park, Ill., assignor to International Harvester Company. Pitman connection. No. 1,029,259; June 11; Sp. p. 2575; Gaz. vol. 179; p. 437.
Benjamin, Bert R., Oak Park, Ill., assignor to International Harvester Company. Pitman connection. No. 1,029,260; June 11; Sp. p. 2576; Gaz. vol. 179; p. 437.
Benjamin, Bert R., Oak Park, Ill., assignor to International Harvester Company. Grain-binder. No. 1,029,659; June 18; Sp. p. 3445; Gaz. vol. 179; p. 612.
Benjamin, Bert R., Oak Park, Ill., assignor to International Harvester Company. Grain-binder. No. 1,029,741; June 18; Sp. p. 3640; Gaz. vol. 179; p. 641.
Benjamin, Bert R., Oak Park, Ill., assignor to International Harvester Company. Motor attachment for harvesters. No. 1,041,952; Oct. 22; Gaz. vol. 183; p. 872.
Benjamin Eastwood Company, The. (See Eastwood, James, assignor.)
Benjamin Eastwood Company. (See Warburton, John, assignor.)
Benjamin Electric Manufacturing Company. (See Anderson, Ernst G. K., assignor.)
Benjamin Electric Manufacturing Company. (See Benjamin, Reuben B., assignor.)
Benjamin Electric Manufacturing Company. (See Blake, Robert S., assignor.)
Benjamin Electric Manufacturing Company. (See Cottrell, William, assignor.)
Benjamin Electric Manufacturing Company. (See Weeks, Nelson, assignor.)
Benjamin, Frederick. (See Sandstrom, Frank A., assignor.)
Benjamin, George H. (See Finck, William C., assignor.)
Benjamin, George H., New York, N. Y. Metallurgical furnace. No. 1,026,197; May 14; Sp. p. 2445; Gaz. vol. 178; p. 410.
Benjamin, George H., New York, N. Y. Operating metallurgical furnaces. No. 1,033,777; July 30; Gaz. vol. 180; p. 1146.
Benjamin, George H., New York, N. Y. Treating metal ingots. No. 1,038,271; Sept. 10; Gaz. vol. 182; p. 400.
Benjamin, John M., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Splitting-machine. No. 1,048,278; Dec. 24; Gaz. vol. 185; p. 956.
Benjamin, Reuben B., Chicago, Ill. Screw-driver. No. 1,017,035; Feb. 13; Sp. p. 1785; Gaz. vol. 175; p. 311.
Benjamin, Reuben B., Chicago, Ill. Reflector-shade. No. 1,038,072; Sept. 10; Gaz. vol. 182; p. 333.
Benjamin, Reuben B., Chicago, Ill. Safety device for machinery. No. 1,046,373; Dec. 3; Gaz. vol. 185; p. 200.
Benjamin, Reuben B., Chicago, Ill. Safety manipulating device for machinery. No. 1,046,374; Dec. 3; Gaz. vol. 185; p. 200.
Benjamin, Reuben B., Chicago, Ill. Lamp-socket. No. 1,048,279; Dec. 24; Gaz. vol. 185; p. 957.
Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Electrolier. No. 1,016,317; Feb. 6; Sp. p. 184; Gaz. vol. 175; p. 28.

Alphabetical list of patentees—Continued.

Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Switch-socket. No. 1,021,177; Mar. 26; Sp. p. 4611; Gaz. vol. 176; p. 846.

Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Separable attachment-plug. No. 1,022,815; Apr. 9; Sp. p. 2278; Gaz. vol. 177; p. 390.

Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Lamp-socket. No. 1,023,916; Apr. 23; Sp. p. 4611; Gaz. vol. 177; p. 821.

Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Switch-socket for electric lamps. No. 1,025,237; May 7; Sp. p. 281; Gaz. vol. 178; p. 46.

Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Weatherproof electric-lamp socket. No. 1,025,238; May 7; Sp. p. 284; Gaz. vol. 178; p. 47.

Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Electric-lamp socket. No. 1,025,239; May 7; Sp. p. 287; Gaz. vol. 178; p. 47.

Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Outdoor electric-lighting fixture. No. 1,036,064; Aug. 20; Gaz. vol. 181; p. 630.

Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Adjustable extension-socket. No. 1,038,070; Sept. 10; Gaz. vol. 182; p. 333.

Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Portable protected lamp-holder. No. 1,038,071; Sept. 10; Gaz. vol. 182; p. 333.

Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Electric-lamp socket. No. 1,046,431; Dec. 10; Gaz. vol. 185; p. 257.

Benjamin, William H. (See West and Benjamin.)

Benjaminowitsch, Wolf, Berlin, Germany, assignor of one-half to G. L. Tillmanns, Moscow, Russia. Machine for making cigarette-mouthpieces. No. 1,017,279; Feb. 13; Sp. p. 2332; Gaz. vol. 175; p. 397.

Benjamins, Israel, New York, N. Y. Steam-boiler or fluid-heater. No. 1,029,908; June 18; Sp. p. 4023; Gaz. vol. 179; p. 699.

Benkendorf, Otto A., Belen, N. Mex. Purifying device for hydrocarbon-fuel gasolene. No. 1,015,662; Jan. 23; Sp. p. 5673; Gaz. vol. 174; p. 969.

Benkiser, Carl F. E. A., Strassburg, Germany. Tap or cock. No. 1,013,731; Jan. 2; Sp. p. 1415; Gaz. vol. 174; p. 223.

Benkö, Andrew, New York, N. Y. Photographic-plate developing, washing, and fixing apparatus. No. 1,021,035; Mar. 26; Sp. p. 4308; Gaz. vol. 176; p. 800.

Benn, Edward H., Weymouth, Mass. Spark-plug holder and spark-indicator. No. 1,024,819; Apr. 30; Sp. p. 6631; Gaz. vol. 177; p. 1167.

Benner, Russell E. (See Vincent and Benner.)

Benner, Russell E., assignor to Burroughs Adding Machine Company, Detroit, Mich. Adding and listing machine. No. 1,013,923; Jan. 9; Sp. p. 1860; Gaz. vol. 174; p. 318.

Benner, Russell E., assignor to Burroughs Adding Machine Company, Detroit, Mich. Adding and listing machine. No. 1,046,546; Dec. 10; Gaz. vol. 185; p. 300.

Bennet, Philip G. H. (See Bostwick, Seymour A., assignor.)

Bennetch, Harry C., Cocalico, Pa. Wrench. No. 1,023,001; Apr. 9; Sp. p. 2658; Gaz. vol. 177; p. 453.

Bennett, Albert, Seattle, Wash. Fresh-air sleeping-hood. No. 1,022,459; Apr. 9; Sp. p. 1500; Gaz. vol. 177; p. 268.

Bennett, Arthur E., Garnett, Kans. Adjusting means for trousers. No. 1,015,125; Jan. 16; Sp. p. 4512; Gaz. vol. 174; p. 760.

Bennett, Arthur E., and H. Thompson, Coventry, England. Feed mechanism of turning mills, lathes, or like machines. No. 1,039,484; Sept. 24; Gaz. vol. 182; p. 870.

Bennett, Barrow, assignor to H. H. Hamilton, New York, N. Y. Lady's underwear. No. 1,029,583; June 18; Sp. p. 3278; Gaz. vol. 179; p. 584.

Bennett, Benjamin W., Poplar Hall Farm, Princess Anne county, Va. Agricultural implement. No. 1,047,607; Dec. 17; Gaz. vol. 185; p. 701.

Bennett, Carl K. (See Pierce, James M., assignor.)

Bennett, Charles R., Trenton, N. J. Mail-bag catching and delivery device. No. 1,045,767; Nov. 26; Gaz. vol. 184; p. 1039.

Bennett, Charles W., assignor to American Sheet & Tin Plate Company, Pittsburgh, Pa. Machine for bundling scrap. No. 1,023,799; Apr. 23; Sp. p. 4300; Gaz. vol. 177; p. 780.

Bennett, Dwight W., Somerton, Pa. Hot-bed sash. No. 1,024,113; Apr. 23; Sp. p. 5034; Gaz. vol. 177; p. 889.

Bennett, Dwight W., Somerton, assignor of one-third to B. Van Sant, Southampton, Pa. Expansion-bolt. No. 1,041,953; Oct. 22; Gaz. vol. 183; p. 872.

Bennett, Edgar. (See Hackney, William F., assignor.)

Bennett, Edward, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Conducting material and producing the same. No. 1,023,917; Apr. 23; Sp. p. 4613; Gaz. vol. 177; p. 821.

Bennett, Edward C., Wormleysburg, and C. J. Hillard, Harrisburg, Pa. Crank-pin connection. No. 1,048,485; Dec. 31; Gaz. vol. 185; p. 1064.

Bennett, Edward D., Pulaski, N. Y. Reinforced paper-board. No. 1,014,996; Jan. 16; Sp. p. 4265; Gaz. vol. 174; p. 716.

Bennett, Edward R., Athol, Mass. Milk-bottle holder. No. 1,029,414; June 11; Sp. p. 2941; Gaz. vol. 179; p. 491.

Bennett, Elmer W., *et al.* (See Hills, William C., assignor.)

Bennett, Erastus S., New York, N. Y. Aeroplane. No. 1,037,853; Sept. 10; Gaz. vol. 182; p. 258.

Bennett, Ernest C., New York, N. Y. Artificial denture. No. 1,013,111; Jan. 2; Sp. p. 33; Gaz. vol. 174; p. 8.

Bennett, Frederick. (See Walker and Bennett.)

Bennett, George H., Sydney, New South Wales, Australia, assignor to British-American Tobacco Company Limited, London, England. Machine for soldering sheet-metal vessels. No. 1,030,225; June 18; Sp. p. 4689; Gaz. vol. 179; p. 806.

Bennett, George L., New York, N. Y. Telephone attachment. No. 1,013,112; Jan. 2; Sp. p. 35; Gaz. vol. 174; p. 8.

Bennett, George R., Denver, Colo. Vehicle-wheel. No. 1,038,522; Sept. 17; Gaz. vol. 182; p. 521.

Bennett, George S., San Francisco, Cal. Sanitary device for telephone-mouthpieces. No. 1,047,120; Dec. 10; Gaz. vol. 185; p. 496.

Bennett, George S., San Francisco, Cal. Sanitary guard for telephones. No. 1,047,121; Dec. 10; Gaz. vol. 185; p. 497.

Bennett, Hugh V. (See Pope and Bennett.)

Bennett, J. H., *et al.* (See Jameson, Roland L., assignor.)

Bennett, John W. (See Spofford, Jonas, and Bennett.)

Bennett, Joseph, Dayton, Ohio. Buggy-top support. No. 1,023,800; Apr. 23; Sp. p. 4302; Gaz. vol. 177; p. 781.

Bennett, Judson A., Clovis, N. Mex. Wind-wheel. No. 1,015,416; Jan. 23; Sp. p. 5145; Gaz. vol. 174; p. 883.

Bennett, Judson A., Clovis, N. Mex. Wind-wheel. No. 1,037,854; Sept. 10; Gaz. vol. 182; p. 258.

Bennett, Lincoln, assignor to A. P. Pfoutz, Renovo, Pa. Rivet-head drill. No. 1,023,002; Apr. 9; Sp. p. 2659; Gaz. vol. 177; p. 454.

Bennett Oil Company. (See Boutte, Edmond G., assignor.)

Bennett, Orlando S., Moulton, Iowa. Spark-arrester. No. 1,026,143; May 14; Sp. p. 2324; Gaz. vol. 178; p. 392.

Bennett, Raymond F., Portland, Me. Load-handling apparatus. No. 1,033,078; July 23; Gaz. vol. 180; p. 887.

Bennett, Robert J., Moline, Ill. Automatic playing attachment for musical instruments. No. 1,024,494; Apr. 30; Sp. p. 5885; Gaz. vol. 177; p. 1053.

Bennett, Robert J., Moline, Ill. Automatic playing attachment for musical instruments No. 1,040,261; Oct. 8; Gaz. vol. 183; p. 227.

Bennett, Robert J., Moline, assignor to Artista Piano Player Company, Milan, Ill. Controlling device for self-playing pianos. No. 1,025,959; May 14; Sp. p. 1903; Gaz. vol. 178; p. 327.

Bennett, Robert J., Moline, assignor to Artista Piano Player Company, Milan, Ill. Controlling device for self-playing pianos. No. 1,030,863; July 2; Gaz. vol. 180; p. 5.

Bennett, Russell H., Los Angeles, Cal. Map-rack. No. 1,014,861; Jan. 16; Sp. p. 3960; Gaz. vol. 174; p. 670.

Bennett, Stephen S., Chicago, Ill. Gearing for motor-vehicles. No. 1,014,036; Jan. 9; Sp. p. 2125; Gaz. vol. 174; p. 355.

Bennett, Samuel E., Williamsport, Pa. Umbrella-holder. No. 1,048,280; Dec. 24; Gaz. vol. 185; p. 957.

Bennett, Thomas A., Newton, Hyde, England. Vehicle-fender. No. 1,041,726; Oct. 22; Gaz. vol. 183; p. 793.

Bennett, Walter J., Michigan City, Ind. Pedestal-support for railway-car seats. No. 1,023,294; Apr. 16; Sp. p. 3313; Gaz. vol. 177; p. 592.

Bennett, William E., Grand Island, Nebr. Harvester-reel and support therefor. No. 1,013,636; Jan. 2; Sp. p. 1185; Gaz. vol. 174; p. 189.

Bennett, William N., Belleville, assignor of one-tenth to W. W. Lyons and A. G. Heller, Newark, N. J. Steel-mold. No. 1,027,585; May 28; Sp. p. 5479; Gaz. vol. 178; p. 958.

Bennett, William T., Sunderland, Ontario, Canada. Rotary engine. No. 1,018,737; Feb. 27; Sp. p. 5574; Gaz. vol. 175; p. 964.

Bennett, Winchester, assignor to Winchester Repeating Arms Co., New Haven, Conn. Magazine-firearm. No. 1,037,107; Aug. 27; Gaz. vol. 181; p. 1020.

Bennewis, Harry, Philadelphia, Pa. Sign-frame. No. 1,015,126; Jan. 16; Sp. p. 4514; Gaz. vol. 174; p. 760.

Benni, Felix J., St. Petersburg, Russia. Bascule-bridge. No. 1,048,440; Dec. 24; Gaz. vol. 185; p. 1010.

Bennie, John W., Clifton, Ariz. Treating copper ores or copper-ore-mill tailings. No. 1,019,708; Mar. 5; Sp. p. 1518; Gaz. vol. 176; p. 235.

Alphabetical list of patentees—Continued.

Benninger, John M., New York, N. Y. Cap-block. No. 1,043,662; Nov. 5; Gaz. vol. 184; p. 218.
Benninghaus, Chauncy M., Govans, Md. Back-strap for shoes. No. 1,042,870; Oct. 29; Gaz. vol. 183; p. 1215.
Benninghoff, George V., Meadville, Pa. Tire. No. 1,036,955; Aug. 27; Gaz. vol. 181; p. 968.
Bennion, Charles F., Leicester, England, assignor to United Shoe Machinery Company, Paterson, N. J. Burnishing and indenting tool. No. 1,034,062; July 30; Gaz. vol. 180; p. 1248.
Bennis, Stephen, and J. G. Keppel, New York, N. Y. Tender-scoop. No. 1,016,731; Feb. 6; Sp. p. 1121; Gaz. vol. 175; p. 172.
Benny, Joseph, Newark, N. J. Shock-absorber. No. 1,037,583; Sept. 3; Gaz. vol. 182; p. 137.
Benoist, Condé A., St. Louis, Mo. Shock-register for automobiles. No. 1,042,525; Oct. 29; Gaz. vol. 183; p. 1093.
Benoist, Marie E., administratrix. (See Benoist, Sanguinet H.)
Benoist, Sanguinet H., deceased, Los Angeles, Cal.; M. E. Benoist, administratrix. Flying-machine. No. 1,038,073; Sept. 10; Gaz. vol. 182; p. 334.
Benrath, Paul, Mulheim, near Cologne, E. Damm and O. Stephani, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Lustrous thread. No. 1,031,616; July 2; Gaz. vol. 180; p. 266.
Bense, Joel M., Woonsocket, R. I. Fly-board. No. 1,032,268; July 9; Gaz. vol. 180; p. 531.
Bensinger, Carl, Mannheim, Germany. Manufacture of galvanic metal reproductions of articles of the plastic arts. No. 1,023,612; Apr. 16; Sp. p. 3953; Gaz. vol. 177; p. 694.
Bensinger, Forbes R., Franklin, Pa., assignor to The Kretol Company, Inc., Washington, D. C. Disinfecting apparatus. No. 1,021,500; Mar. 26; Sp. p. 5325; Gaz. vol. 176; p. 959.
Benskin, Joseph, assignor of one-half to I. T. Bridges, Mahomet, Ill. Stove-truck. No. 1,014,440; Jan. 9; Sp. p. 2995; Gaz. vol. 174; p. 497.
Benson, Alfred, Seattle, Wash. Comb. No. 1,014,037; Jan. 9; Sp. p. 2128; Gaz. vol. 174; p. 355.
Benson, Andrew, Chicago, Ill., assignor, by mesne assignments, to Benson Gear Company. Transmission-gearing. No. 1,030,379; June 25; Sp. p. 5054; Gaz. vol. 179; p. 902.
Benson, August. (See Young, Jean A., assignor.)
Benson, Charles T., assignor to The Nye Tool and Machine Works, Chicago, Ill. Die-stock. No. 1,042,073; Oct. 22; Gaz. vol. 183; p. 912.
Benson, Elmer A., Peru, Ill. Poultry-fountain. No. 1,035,817; Aug. 13; Gaz. vol. 181; p. 509.
Benson Gear Company. (See Benson, Andrew, assignor.)
Benson, Ira C., Hulett, Wyo. Reel attachment for mowing-machines and harvesters. No. 1,026,486; May 14; Sp. p. 3080; Gaz. vol. 178; p. 508.
Benson, John, Sugargrove, Pa. Gearing. No. 1,046,432; Dec. 10; Gaz. vol. 185; p. 258.
Benson, John E., Minneapolis, Minn. Back-rest for canoes. No. 1,026,898; May 21; Sp. p. 3987; Gaz. vol. 178; p. 686.
Benson, Samuel, Menominee, Mich., assignor to E. C. Miller, Chicago, Ill. Perambulator or go-cart. No. 1,027,029; May 21; Sp. p. 4306; Gaz. vol. 178; p. 732.
Benson, William F., Brockton, Mass. Dustless coal-ash sifter. No. 1,041,001; Oct. 15; Gaz. vol. 183; p. 515.
Benster, Menzo M., Gettysburg, S. D. Flying-machine. No. 1,027,372; May 21; Sp. p. 5036; Gaz. vol. 178; p. 848.
Benster, Olin W., Toledo, Ohio. Wire straightening, crimping, and cutting machine. No. 1,040,493; Oct. 8; Gaz. vol. 183; p. 306.
Bent, Irving J., Chicago, Ill., assignor to Allis-Chalmers Company, Milwaukee, Wis. Packing for reciprocating rods. No. 1,040,494; Oct. 8; Gaz. vol. 183; p. 306.
Bentley, David H., *et al.* (See Black, John P., assignor.)
Bentley, Edwin O., Baltimore, Md. Gas-controlling mechanism for gas-burners. No. 1,027,519; May 28; Sp. p. 5338; Gaz. vol. 178; p. 935.
Bentley, Frank F., Warren, Ohio. Ice-can. No. 1,027,802; May 28; Sp. p. 5921; Gaz. vol. 178; p. 1029.
Bentley, Fred W., Schenectady, N. Y., assignor to General Electric Company. High-speed emergency-governor. No. 1,017,496; Feb. 13; Sp. p. 2797; Gaz. vol. 175; p. 472.
Bentley, John H., Midland Park, N. J. Neckwear and the like and manufacturing the same. No. 1,034,063; July 30; Gaz. vol. 180; p. 1249.
Bentley, Lewllyn. (See Smith, William M., assignor.)
Bentley, Louis L., Beaver Falls, assignor to Armstrong Cork Company, Pittsburgh, Pa. Making cork articles. No. 1,035,146; Aug. 13; Gaz. vol. 181; p. 277.
Bentley, Oliver D. H., assignor to B. F. Sturtevant Company, Boston, Mass. Elastic-fluid turbine. No. 1,042,871; Oct. 29; Gaz. vol. 183; p. 1215.
Bentley, Percival A., Burton-upon-Trent, England. Electrically-driven clock. No. 1,043,663; Nov. 5; Gaz. vol. 184; p. 218.
Benton, Carmi O., Grainfield, Kans. Railway-tie. No. 1,033,522; July 23; Gaz. vol. 180; p. 1037.
Benton, Charlotte E., New York, N. Y. Feed-bag for horses or other animals. No. 1,033,046; July 16; Gaz. vol. 180; p. 839.
Benton, Daniel M., Macon, Ga. Combined envelop and letter-sheet packet. No. 1,014,441; Jan. 9; Sp. p. 2995; Gaz. vol. 174; p. 497.
Benton, George E., Amagansett, N. Y. Fluid-hydrocarbon burner. No. 1,033,079; July 23; Gaz. vol. 180; p. 888.
Benton, Josiah S., assignor to The Ideal Epworth Acetylene Company, Johnstown, Pa. Electric gas lighting and extinguishing apparatus. No. 1,025,047; Apr. 30; Sp. p. 7083; Gaz. vol. 177; p. 1245.
Benton, Murlie E. (See Crawford, William R., assignor.)
Benton, William F., Birmingham, Ala. Fire-plug. No. 1,038,523; Sept. 17; Gaz. vol. 182; p. 521.
Bentson, Hans J., Winthrop Harbor, assignor to F. C. Austin, Chicago, Ill. Clean-out for excavator-buckets. No. 1,020,958; Mar. 26; Sp. p. 4158; Gaz. vol. 176; p. 773.
Bentson, Hans J., Winthrop Harbor, assignor to F. C. Austin, Chicago, Ill. Drag-line excavator. No. 1,035,768; Aug. 13; Gaz. vol. 181; p. 492.
Bentz, John A., Harrisburg, Pa. Music-leaf turner. No. 1,015,127; Jan. 16; Sp. p. 4515; Gaz. vol. 174; p. 760.
Bentzlin, Frans A., Andrus, Wis. Rein-holder for vehicles. No. 1,035,147; Aug. 13; Gaz. vol. 181; p. 278.
Benyo, John, assignor of one-half to J. Slamka, Cudahy, Wis. Marine propulsion. No. 1,013,982; Jan. 9; Sp. p. 2000; Gaz. vol. 174; p. 339.
Benyon, Thomas A., Astoria, N. Y. Non-refillable bottle. No. 1,044,731; Nov. 19; Gaz. vol. 184; p. 648.
Benz, Frederick, Jr. (See Frank and Benz.)
Benz, Frederick, Jr., Haledon, N. J., assignor to J. Frank, New York, N. Y. Batten structure for narrow-ware looms. No. 1,013,365; Jan. 2; Sp. p. 606; Gaz. vol. 174; p. 97.
Benz, Frederick, Jr., Haledon, N. J., assignor to J. Frank, New York, N. Y. Batten structure for narrow-ware looms. No. 1,017,076; Feb. 13; Sp. p. 1896; Gaz. vol. 175; p. 327.
Benz, Frederick, Jr., Haledon, N. J., assignor to J. Frank, New York, N. Y. Batten structure for narrow-ware looms. No. 1,032,321; July 9; Gaz. vol. 180; p. 549.
Benz, Frederick, Jr., Haledon, N. J., assignor to J. Frank, New York, N. Y. Incandescent electric lamp. No. 1,046,547; Dec. 10; Gaz. vol. 185; p. 300.
Benze, George, New York, N. Y. Table-lamp. No. 1,034,409; Aug. 6; Gaz. vol. 181; p. 4.
Benzing, Friedrich E., Schwenningen, Germany. Recording-lock. No. 1,037,108; Aug. 27; Gaz. vol. 181; p. 1020.
Berardi, Fortunato, Naples, Italy. Device for the distribution of water in water-closets and the like. No. 1,018,231; Feb. 20; Sp. p. 4433; Gaz. vol. 175; p. 761.
Berault, Edwin J., New Orleans, La. Hinge. No. 1,030,801; June 25; Sp. p. 6236; Gaz. vol. 179; p. 1053.
Berbecker & Rowland Manufacturing Company. (See Laun, Christian F., assignor.)
Berbecker & Rowland Manufacturing Company. (See Moffat, William S., assignor.)
Berblinger, August, St. Louis, Mo., assignor to Essmueller Mill Furnishing Company. Bottle cleaning and brushing machine. No. 1,018,738; Feb. 27; Sp. p. 5577; Gaz. vol. 175; p. 965.
Bercha, Joseph, Beatrice, Nebr. Comb-cleaning device. No. 1,040,849; Oct. 8; Gaz. vol. 183; p. 429.
Berchelmann, Wilhelm, Vohwinkel, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Dye. No. 1,014,204; Jan. 9; Sp. p. 2460; Gaz. vol. 174; p. 414.
Berchelmann, Wilhelm, Vohwinkel, near Elberfeld, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Greenish-blue wool-dye. No. 1,045,805; Dec. 3; Gaz. vol. 185; p. 3.
Berdenich, Ernst. (See Kolossváry, Haltenberger, and Berdenich.)
Berend, Ludwig, Wiesbaden, Germany. Preparing condensates from casein, phenols, and formic aldehyde and the product obtained thereby. No. 1,040,850; Oct. 8; Gaz. vol. 183; p. 430.
Berendes, Rudolf, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Producing the calcium salt of acetyl salicylic acid. No. 1,020,181; Mar. 12; Sp. p. 2508; Gaz. vol. 176; p. 427.
Berendes, Rudolf, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Producing the calcium salt of acetyl salicylic acid. No. 1,020,182; Mar. 12; Sp. p. 2508; Gaz. vol. 176; p. 427.
Berendes, Rudolph, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Calcium salt of acetyl salicylic acid and making same. No. 1,020,121; Mar. 12; Sp. p. 2376; Gaz. vol. 176; p. 406.
Berg, Alfred D., Minneapolis, Minn. Sash-cord-pulley and shade holder. No. 1,025,107; Apr. 30; Sp. p. 7218; Gaz. vol. 177; p. 1264.
Berg, Fred G., assignor of one-half to M. B. Horney, Enid, Okla. Type-writer ribbon-cabinet. No. 1,020,475; Mar. 19; Sp. p. 3106; Gaz. vol. 176; p. 560.
Berg, Frederick O., Spokane, Wash. Awning-fixture. No. 1,018,692; Feb. 27; Sp .p. 5475; Gaz. vol. 175; p. 949.
Berg, Joseph. (See Kallis and Berg.)

Alphabetical list of patentees—Continued.

Berg, Peter, Enderlin, N. D. Hat packing-ring. No. 1,024,243; Apr. 23; Sp. p. 5340; Gaz. vol. 177; p. 936.
Berg, Sven O., Chicago, Ill. Smoke-consuming furnace. No. 1,043,895; Nov. 12; Gaz. vol. 184; p. 329.
Berg, Wilhelm, Erlenstegen, Germany. Discus. No. 1,040,851; Oct. 8; Gaz. vol. 183; p. 430.
Bergdolt, Leonhard F. (See Drexler, Max, assignor.)
Bergdolt, Wilhelm, Leverkusen, near Cologne, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. New dye. No. 1,014,633; Jan. 16; Sp. p. 3445; Gaz. vol. 174; p. 591.
Bergedorfer Eisenwerk Aktiengesellschaft. (See Hansen and Winkler, assignors.)
Bergen, James V., El Paso, Tex. Rail tie and fastening device. No. 1,015,535; Jan. 23; Sp. p. 5392; Gaz. vol. 174; p. 924.
Bergener, Charles, assignor to C. T. Ham Manufacturing Company, Rochester, N. Y. Tubular lantern. No. 1,041,411; Oct. 15; Gaz. vol. 183; p. 653.
Bergens, William J., assignor of one-fourth to C. L. Terry and one-fourth to J. A. Bommhardt, Cleveland, Ohio. Thermostatic compound valve. No. 1,034,064; July 30; Gaz. vol. 180; p. 1249.
Bergens, William J., assignor of one-fourth to C. L. Terry and one-fourth to J. A. Bommhardt, Cleveland, Ohio. Pop-up waste-valve. No. 1,035,849; Aug. 20; Gaz. vol. 181; p. 557.
Berger, Alfred R., H. Reymond, and F. P. A. Horn, Springfield, Mass. Life-net. No. 1,038,717; Sept. 17; Gaz. vol. 182; p. 589.
Berger, Anton J., and M. Abraham, Chicago, Ill. Chair. No. 1,034,678; Aug. 6; Gaz. vol. 181; p. 91.
Berger, Bela, Denver, Colo. Filtration-faucet. No. 1,047,137; Dec. 10; Gaz. vol. 185; p. 503.
Berger, Christian. (See Klupathy and Berger.)
Berger, Christian L., Boston, Mass. Engineer's telescope. No. 1,016,606; Feb. 6; Sp. p. 866; Gaz. vol. 175; p. 129.
Berger, Christian L., Boston, Mass. Magnetic needle. No. 1,016,732; Feb. 6; Sp. p. 1123; Gaz. vol. 175; p. 172.
Berger, Emanuel, assignor to J. Frisch & Sohn, Tapolcza, Austria-Hungary. Receptacle for wine and similar liquids. No. 1,020,739; Mar. 19; Sp. p. 3704; Gaz. vol. 176; p. 649.
Berger, Fritz, Berlin, Germany. Folding stereoscope. No. 1,024,613; Apr. 30; Sp. p. 6202; Gaz. vol. 177; p. 1094
Berger, Guido, assignor to The Hamilton Manufacturing Company, Two Rivers, Wis. Paper-cutting machine. No. 1,040,262; Oct. 8; Gaz. vol. 183; p. 227.
Berger, Johann F. T., Mount Clemens, Mich. Road-scraper. No. 1,037,194; Sept. 3; Gaz. vol. 182; p. 6.
Berger Manufacturing Company, The. (See Caldwell, William L., assignor.)
Berger Manufacturing Company, The. (See Smead, George W., assignor.)
Berger, Richard A., Brooklyn, N. Y., assignor, by mesne assignments, to Consolidated Wrapping Machine Company, Springfield, Mass. Wrapping-machine. No. 1,048,933; Dec. 31; Gaz. vol. 185; p. 1220.
Bergeron, Jay P. (See Patton, Elias J., assignor.)
Bergeron, Jay P., Tiskilwa, Ill. Advertising device. No. 1,037,855; Sept. 10; Gaz. vol. 182; p. 258.
Berggren, Arthur M. (See Hitchcock and Berggren.)
Berggren, Fred M. (See Hitchcock and Berggren.)
Berggren, Tell J., Battle Creek, Mich. Osteopathic-treatment chair. No. 1,026,782; May 21; Sp. p. 3726; Gaz. vol. 178; p. 645.
Bergh, Frederick P. (See Neuberger and Bergh.)
Bergh, Justus C., Hendrum, Minn. Plow attachment. No. 1,042,386; Oct. 29; Gaz. vol. 183; p. 1042.
Bergh, Ole O., St. Paul, Minn. Adjustable mirror-holder. No. 1,041,002; Oct. 15; Gaz. vol. 183; p. 515.
Berghausen, George, Cincinnati, Ohio. Machine for removing burs from metal pipes. No. 1,029,584; June 18; Sp. p. 3279; Gaz. vol. 179; p. 584.
Berghausen, George, Cincinnati, Ohio, assignor to Berghausen Machine Company. Key-seat-cutting attachment for drill-presses. No. 1,045,501; Nov. 26; Gaz. vol. 184; p. 945.
Berghausen Machine Company. (See Berghausen, George, assignor.)
Bergius, Friedrich, Hanover, Germany. Making alkali-earth peroxid. No. 1,015,286; Jan. 23; Sp. p. 4843; Gaz. vol. 174; p. 840.
Bergman, Amos C., New York, N. Y. Practice-clavier. No. 1,040,852; Oct. 8; Gaz. vol. 183; p. 430.
Bergman, Erick P., and H. Clarke, assignors of one-eighth to S. R. Roth, Cherokee, and one-eighth to R. N. McConnell, Oklahoma, Okla. Four-wheel drive. No. 1,034,956; Aug. 6; Gaz. vol. 181; p. 186.
Bergman, Gustaf, Natick, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Lasting-machine. No. 1,034,757; Aug. 6; Gaz. vol. 181; p. 119.
Bergmann, Emil, assignor to A. J. Guick, Los Angeles, Cal. Water-purifier. No. 1,038,480; Sept. 10; Gaz. vol. 182; p. 473.
Bergmark, Gustaf, Chicago, Ill. Clutch. No. 1,039,351; Sept. 24; Gaz. vol. 182; p. 823.
Bergold, J. M. (See Bergold, Wilbur W., assignor.)
Bergold, Wilbur W., assignor of one-half to J. M. Bergold, Canton, Ohio. Mixer for gaseous fuel. No. 1,040,853; Oct. 8; Gaz. vol. 183; p. 430.
Bergquist, John G., Chicago, Ill. Disintegrating molten slag. No. 1,047,370; Dec. 17; Gaz. vol. 185; p. 617.
Bergsten, Oscar J. F., assignor of one-half to N. Bjork, Worcester, Mass. Drill-chuck. No. 1,024,172; Apr. Sp. p. 5172; Gaz. vol. 177; p. 908.
Bergstrom, Charles M., Boone, Iowa. Curtain-holder. No. 1,036,785; Aug. 27; Gaz. vol. 181; p. 911.
Bergstrom, Christian, Denver, Colo. Spoke-tenoning machine. No. 1,044,477; Nov. 19; Gaz. vol. 184; p. 559.
Bergström, Hilding O. V., Stockholm, Sweden, and O. Fagerlind, deceased; K. M. Fagerlind (widow) and E. H. B. Almgren, (guardian.) Producing methyl alcohol from waste products of the caustic-soda-cellulose process. No. 1,032,982; July 16; Gaz. vol. 180; p. 816.
Bering, Wilson M., Decatur, and J. N. J. Hilbert, Chicago, Ill. Hay-rake frame. No. 1,034,957; Aug. 6; Gaz. vol. 181; p. 186.
Berkeley Electric Cooker Company. (See Kercher, Arthur J., assignor.)
Berkshire Manufacturing Company, The. (See Battenfeld, John N., assignor.)
Berlien, John, St. Louis, Mo. Rail-joint. No. 1,022,460; Apr. 9; Sp. p. 1500; Gaz. vol. 177; p. 268.
Berlin-Anhaltische Maschinenbau-Aktien-Gesellschaft. (See Bader, Carl, assignor.)
Berlin-Anhaltische Maschinenbau-Actien-Gesellschaft. (See Forchheimer, Philipp, assignor.)
Berlin, Harry, and M. J. Fogarty, New York, N. Y. Protective covering for hats and the like. No. 1,044,977; Nov. 19; Gaz. vol. 184; p. 733.
Berlin Machine Works, The. (See Blaine, Joseph R. S., assignor.)
Berlin Machine Works, The. (See Harper, William, assignor.)
Berlin Machine Works, The. (See Lane, Franklin L., assignor.)
Berlin Machine Works, The. (See Mitchell, Harrison J., assignor.)
Berliner, Emile, assignor to Gyro Motor Company, Washington, D. C. Rotary gas-engine. No. 1,032,983; July 16; Gaz. vol. 180; p. 817.
Berliner, Rudolph, D. D. Swem, and H. F. Moore, Chicago, Ill. Motor-vehicle speed-alarm. No. 1,025,607; May 7; Sp. p. 1115; Gaz. vol. 178; p. 174.
Berliner Siriuslampen Vertriebsgesellschaft m. b. H. (See Weber, Otto, assignor.)
Berlinghof, George A., and E. L. Davis, Lincoln, Nebr. Door and window opening. No. 1,027,460; May 28; Sp. p. 5219; Gaz. vol. 178; p. 915.
Berman, Frank, Oregon, Wis. Bed for invalids. No. 1,033,981; July 30; Gaz. vol. 180; p. 1219.
Berman, Philip. (See Cohn and Berman.)
Bermes, Charles P., Carrollton, Ill. Plow and chopper. No. 1,030,156; June 18; Sp. p. 4529; Gaz. vol. 179; p. 782.
Bernard, Joseph, and W. S. Clayton, Vancouver, British Columbia, Canada. Seam-pressing machine. No. 1,048,794; Dec. 31; Gaz. vol. 185; p. 1173.
Bernard, Philip, Jefferson, S. D. Hog-waterer. No. 1,035,306; Aug. 13; Gaz. vol. 181; p. 335.
Bernard, Philip, Jefferson, S. D. Hog-waterer. No. 1,041,412; Oct. 15; Gaz. vol. 183; p. 654.
Bernard, Reuben L., Mountain View, Cal. Flying-machine. No. 1,034,958; Aug. 6; Gaz. vol. 181; p. 187.
Bernardi, Frank, and J. B. Sauve, assignors to Patent Electric Fuse Spitter Co., Mokelumne Hill, Cal. Delay-action exploder. No. 1,029,261; June 11; Sp. p. 2578; Gaz. vol. 179; p. 438.
Bernasinski, Anthony S., Perth Amboy, N. J. Non-refillable bottle. No. 1,044,854; Nov. 19; Gaz. vol. 184; p. 691.
Bernauer, George W., St. Charles, Mo. Shoe-toe-drying oven. No. 1,045,806; Dec. 3; Gaz. vol. 185; p. 3.
Berndorfer Metallwaaren-Fabrik Arthur Krupp. (See Schieber, Wilhelm, assignor.)
Berndt, Frank, Galveston, Tex. Discharge-pipe. No. 1,046,948; Dec. 10; Gaz. vol. 185; p. 439.
Berndt, Wilhelm, Sheboygan, Wis. Wrench. No. 1,044,478; Nov. 19; Gaz. vol. 184; p. 560.
Berneck, Rudolf M. von. (See Moest and Berneck.)
Berneck, Rudolf M. von, M. Moest, and H. Graf, assignors to Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany. Manufacturing pure nitric oxid. No. 1,021,234; Mar. 26; Sp. p. 4738; Gaz. vol. 176; p. 866.
Bernert, George and J., South Germantown, Wis. Pneumatic elevator. No. 1,033,865; July 30; Gaz. vol. 180; p. 1177.
Berner, Jacob. (See Johnson, Christian A., assignor.)
Berners, Edward C. (See Winkelmiller and Berners.)
Bernert, Jacob. (See Bernert, George and J.)
Bernhard, John B., New York, N. Y. Sectional boiler. No. 1,038,718; Sept. 17; Gaz. vol. 182; p. 589.
Bernhard, John H., McGregor, Iowa. Submergible water-heater. No. 1,048,795; Dec. 31; Gaz. vol. 185; p. 1174.

Alphabetical list of patentees—Continued.

Bernhard, Richard, and A. Niedermeyer, Milwaukee, Wis., assignors to Power & Mining Machinery Company. Blast connection for converters. No. 1,026,556; May 14; Sp. p. 3212; Gaz. vol. 178; p. 531.
Bernheim, Eugene C., assignor to American Optical Company, Southbridge, Mass. Finger-piece eyeglasses. No. 1,029,262; June 11; Sp. p. 2581; Gaz. vol. 179; p. 438.
Bernheim, Morris U. (See Alvey and Bernheim.)
Bernick, Ernst, Riga, Russia, assignor to Optische Anstalt C. P. Goerz Aktiengesellschaft, Friedenau, near Berlin, German. Distance-measuring instrument of the coincident-image type. No. 1,038,831; Sept. 17; Gaz. vol. 182; p. 630.
Bernotowicz, Dominik I., Chicago, Ill. Ash device for stoves. No. 1,039,352; Sept. 24; Gaz. vol. 182; p. 823.
Bernstein, Abraham, Cincinnati, Ohio. Supplemental horseshoe. No. 1,020,792; Mar. 19; Sp. p. 3804; Gaz. vol. 176; p. 666.
Bernstein, Maxville. (See Gogel and Bernstein.)
Bernstrom, John, *et al.* (See Berrigan, John J., assignor.)
Bernstrom, John, *et al.* (See Leitch, Meredith, assignor.)
Bernthal, Herman L., Denver, Idaho. Railway-track fastening. No. 1,045,362; Nov. 26; Gaz. vol. 184; p. 896.
Berntson, Thomas K., assignor of one-fourth to W. A. Kimmel, Washington, D. C. Umbrella. No. 1,039,636; Sept. 24; Gaz. vol. 182; p. 923.
Berold, Frederick H., Jr., Cincinnati, Ohio. Printer's register-hook. No. 1,030,864; July 2; Gaz. vol. 180; p. 5.
Berrenberg, Reinold, Boston, Mass. Power-whistle. No. 1,038,074; Sept. 10; Gaz. vol. 182; p. 334.
Berrenberg, Reinold, Boston, Mass. Vacuum-pump apparatus. No. 1,038,075; Sept. 10; Gaz. vol. 182; p. 334.
Berrenberg, Reinold, Boston, Mass. Incandescent electric lamp and renewing the same. No. 1,038,076; Sept. 10; Gaz. vol. 182; p. 335.
Berreyesa, Abe E., Oakland, Cal. Ink-distributer. No. 1,016,123; Jan. 30; Sp. p. 6650; Gaz. vol. 174; p. 1156.
Berrigan, John J., Orange, N. J., assignor to F. J. Arend, New York, N. Y., and J. Bernstrom, Stockholm, Sweden. Centrifugal separator. No. 1,013,113; Jan. 2; Sp. p. 39; Gaz. vol. 174; p. 9.
Berrigan, John J., Orange, N. J., assignor to F. J. Arend, New York, N. Y., and J. Bernstrom, Stockholm, Sweden. Separating solids and liquids. No. 1,016,870; Feb. 6; Sp. p. 1408; Gaz. vol. 175; p. 218.
Berrigan, John J., assignor to K. S. Berrigan, Orange, N. J. Press. No. 1,018,957; Feb. 27; Sp. p. 6030; Gaz. vol. 175; p. 1040.
Berrigan, John J., assignor to K. S. Berrigan, Orange, N. J. Apparatus for expressing liquids from solids. No. 1,018,958; Feb. 27; Sp. p. 6035; Gaz. vol. 175; p. 1040.
Berrigan, Katie S. (See Berrigan, John J., assignor.)
Berry, Austin, Ottawa, Ontario, Canada. Car journal-box. No. 1,026,487; May 14; Sp. p. 3081; Gaz. vol. 178; p. 508.
Berry, Austin, Ottawa, Ontario, Canada. Car journal-box. No. 1,044,122; Nov. 12; Gaz. vol. 184; p. 408.
Berry, Benjamin F., St. Louis, Mo. Paper-perforating device. No. 1,014,442; Jan. 9; Sp. p. 2997; Gaz. vol. 174; p. 497.
Berry, Charles, Grand Forks, N. D. Tool-handle holder. No. 1,033,661; July 23; Gaz. vol. 180; p. 1083.
Berry, Charles E., Somerville, Mass. Spring-opening hinge. No. 1,019,940; Mar. 12; Sp. p. 2001; Gaz. vol. 176; p. 345.
Berry, Daniel A. (See Brown and Berry.)
Berry, Edward R., Lynn, Mass., assignor to General Electric Company. Arc-light electrode. No. 1,017,497; Feb. 13; Sp. p. 2801; Gaz. vol. 175; p. 472.
Berry, Frederick J., London, England. Spring-seat support. No. 1,027,171; May 21; Sp. p. 4632; Gaz. vol. 178; p. 778.
Berry, George A., Ely, Nev. Distributer. No. 1,022,577; Apr. 9; Sp. p. 1738; Gaz. vol. 177; p. 306.
Berry, George W., assignor of one-half to W. A. Doeble, Columbus, Ohio. Metallic keg. No. 1,032,372; July 16; Gaz. vol. 180; p. 612.
Berry, Harry C., assignor to The Rapid Transit Navigation Company, Los Angeles, Cal. Screw-cylinder boat. No. 1,041,232; Oct. 15; Gaz. vol. 183; p. 592.
Berry, Herman C., Lansdowne, Pa. Strain gage or apparatus for the measurement of the deformations of materials under stress. No. 1,047,371; Dec. 17; Gaz. vol. 185; p. 618.
Berry, Jacob W. F., and J. Macon, St. Louis, Mo. Oiling device. No. 1,039,083; Sept. 24; Gaz. vol. 182; p. 729.
Berry, James H. (See Elkin, John B., assignor.)
Berry, John W., assignor to C. S. Hofstetter, Tacoma, Wash. Machine for treating cereals. No. 1,014,748; Jan. 16; Sp. p. 3688; Gaz. vol. 174; p. 630.
Berry, Phillip A., Coahoma, Tex. Wire-stretcher. No. 1,041,727; Oct. 22; Gaz. vol. 183; p. 793.
Berry, Seneca L., Sunnyvale, Cal. Tangential-impulse water-wheel. No. 1,017,618; Feb. 13; Sp. p. 3018; Gaz. vol. 175; p. 510.
Berry, Seneca L., Sunnyvale, Cal. Regulating-gate for water-wheels. No. 1,025,240; May 7; Sp. p. 289; Gaz. vol. 178; p. 48.
Berry, William D., *et al.* (See Vial, William, assignor.)
Berryman, Craton, Reno. Nev. Logging-railway truck. No. 1,022,395; Apr. 2; Sp. p. 1330; Gaz. vol. 177; p. 216.
Berryman, R. F., *et al.* (See Harris, Warren, assignor.)
Berryman, Robert J., Annapolis, Md. Apparatus for manufacturing ice. No. 1,039,013; Sept. 17; Gaz. vol. 182; p. 690.
Berryman, Robert J., Washington, D. C. Apparatus for manufacturing and harvesting ice. No. 1,046,252; Dec. 3; Gaz. vol. 185; p. 158.
Berryman, William, and C. Camus, Middlesex, assignors to United Flexible Metallic Tubing Company, Limited, Ponders End, England. Flexible metallic tubing. No. 1,021,567; Mar. 26; Sp. p. 5465; Gaz. vol. 176; p. 982.
Bert, Louis D. (See Rocereto and Bert.)
Bertelli, Achille, Brescia, Italy. Pump. No. 1,028,665; June 4; Sp. p. 1300; Gaz. vol. 179; p. 200.
Bertels, Charles E., Wilkes-Barre, Pa. Making cans. No. 1,013,366; Jan. 2; Sp. p. 606; Gaz. vol. 174; p. 97.
Bertha, Julius, Tyre, Pa. Miner's lamp. No. 1,021,568; Mar. 26; Sp. p. 5466; Gaz. vol. 176; p. 982.
Bertheim, Alfred. (See Ehrlich and Bertheim.)
Berthelot, Jules F., Vesoul, France. Dough-raising apparatus. No. 1,034,570; Aug. 6; Gaz. vol. 181; p. 57.
Berthelsen, Anders L., Braedstrup, Denmark, assignor to F. A. Henningsen, Butte, Mont. Pulsator for milking-machines. No. 1,043,040; Oct. 29; Gaz. vol. 183; p. 1272.
Berthier, André, Paris, France. Cooling device for firearms. No. 1,017,373; Feb. 13; Sp. p. 2526; Gaz. vol. 175; p. 428.
Berthold, Emil, Chicago, Ill. Cooking utensil. No. 1,047,608; Dec. 17; Gaz. vol. 185; p. 701.
Bertholf, Psalm G., Goshen, N. Y. Air-heating attachment for stoves. No. 1,023,193; Apr. 16; Sp. p. 3118; Gaz. vol. 177; p. 558.
Berti, Salvatore, Rimini, assignor to The Firm of E. Melzi, Milan, Italy. Packing-machine. No. 1,039,637; Sept. 24; Gaz. vol. 182; p. 923.
Bertig, Charles F., Winsted, Conn. Means for preventing theft of current from electric meters. No. 1,041,728; Oct. 22; Gaz. vol. 183; p. 794.
Bertouch, Rudolf de, Kensington, London, England. Foresight for small-arms. No. 1,043,678; Nov. 5; Gaz. vol. 184; p. 224.
Bertram, August, Brooklyn, N. Y. Automatic liquid-dispensing device. No. 1,049,288; Dec. 31; Gaz. vol. 185; p. 1341.
Bertram, George G., Indianapolis, Ind. Tire-sanding machine. No. 1,034,959; Aug. 6; Gaz. vol. 181; p. 187.
Bertram, Henry W., assignor to McDougall Company, Frankfort, Ind. Hinge. No. 1,026,844; May 21; Sp. p. 3859; Gaz. vol. 178; p. 666.
Bertrand, Frederic E., Swampscott, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Sole-channeling machine. No. 1,023,801; Apr. 23; Sp. p. 4304; Gaz. vol. 177; p. 781.
Bertrand, Frederic E., Swampscott, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for operating upon soles. No. 1,030,703; June 25; Sp. p. 5959; Gaz. vol. 179; p. 1017.
Bertrand, Frederic E., Swampscott, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Channeling-machine. No. 1,030,704; June 25; Sp. p. 5962; Gaz. vol. 179; p. 1018.
Bertrand, Frederic E., Swampscott, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Channeling-machine. No. 1,030,705; June 25; Sp. p. 5969; Gaz. vol. 179; p. 1018.
Bertrand, Frederic E., Swampscott, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Sole-channeling tool. No. 1,030,706; June 25; Sp. p. 5973; Gaz. vol. 179; p. 1018.
Bertrand, Frederic E., Swampscott, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Channeling-machine. No. 1,030,707; June 25; Sp. p. 5975; Gaz. vol. 179; p. 1019.
Bertrand, Frederic E., Swampscott, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Channeling-machine. No. 1,030,708; June 25; Sp. p. 5977; Gaz. vol. 179; p. 1019.
Bertrand, Frederic E., Swampscott, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Channeling-machine. No. 1,030,709; June 25; Sp. p. 5981; Gaz. vol. 179; p. 1019.
Bertrand, Frederic E., Swampscott, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Channeling-machine. No. 1,030,710; June 25; Sp. p. 5983; Gaz. vol. 179; p. 1020.
Bertrand, Frederic E., Swampscott, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Sole-machine. No. 1,030,802; June 25; Sp. p. 6237; Gaz. vol. 179; p. 1053.
Berven, Knute, Portland, Oreg. Shade and curtain fixture. No. 1,024,715; Apr. 30; Sp. p. 6417; Gaz. vol. 177; p. 1130.
Berwick, E. B. (See Fortier, George W., assignor.)
Berwick, John W., Brooklyn, N. Y. Envelop for photographic films or plates. No. 1,032,648; July 16; Gaz. vol. 180; p. 705.

Alphabetical list of patentees—Continued.

Berwick, John W., Brooklyn, N. Y. Envelop for photographic films or plates. No. 1,044,123; Nov. 12; Gaz. vol. 184; p. 408.
Berzon, Louis. (See Simmons and Berzon.)
Beseman, Edward J., and F. Nichols, Los Angeles, Cal.; said Nichols assignor to said Beseman. Wind-shield. No. 1,034,679; Aug. 6; Gaz. vol. 181; p. 91.
Besenberg, Henry F., West Newton, Pa. Tie and rail-fastener. No. 1,030,157; June 18; Sp. p. 4531; Gaz. vol. 179; p. 783.
Besharov, Naum S. G., Paterson, N. J. Combination-lock. No. 1,046,253; Dec. 3; Gaz. vol. 185; p. 158.
Beshore, Hiram, Marion, Ind. Safe. No. 1,026,649; May 21; Sp. p. 3438; Gaz. vol. 178; p. 600.
Beshore, Hiram, Marion, Ind. Miniature safe. No. 1,033,982; July 30; Gaz. vol. 180; p. 1219.
Beskow, Bernhard M., New York, assignor of one-fourth to C. S. Champion, Brooklyn, N. Y. Airship. No. 1,031,904; July 9; Gaz. vol. 180; p. 408.
Besly, Charles H. (See Miller, John, Jr., assignor.)
Besore, Shelby S., Urbana, Ill. Self-winding clock. No. 1,032,108; July 9; Gaz. vol. 180; p. 476.
Bessemer Gas Engine Company, The. (See Fithian and Murray, assignors.)
Bessemer Gas Engine Company, The. (See Murray, Harry D., assignor.)
Besser, Herman, Alpena, Mich. Corn-husker. No. 1,040,854; Oct. 8; Gaz. vol. 183; p. 431.
Bessert, Emil, Fröndenberg-on-the-Ruhr, Germany. Valve. No. 1,044,124; Nov. 12; Gaz. vol. 184; p. 408.
Bessler, Frank E., Akron, Ohio. Movable stairway. No. 1,018,232; Feb. 20; Sp. p. 4436; Gaz. vol. 175; p. 762.
Bessolo, William L., San Diego, Cal. Pipe-wrench. No. 1,037,109; Aug. 27; Gaz. vol. 181; p. 1020.
Best, Alfred, and D. L. Dean, Salt Lake City, Utah. Amusement device. No. 1,034,864; Aug. 6; Gaz. vol. 181; p. 157.
Best, Charles E., Canton, Ohio. Explosive-engine-cranking device. No. 1,040,495; Oct. 8; Gaz. vol. 183; p. 306.
Best, Clarence L., assignor to The Best Manufacturing Company, San Leandro, Cal. Sidehill-harvester. No. 1,020,391; Mar. 12; Sp. p. 2916; Gaz. vol. 176; p. 494.
Best, Edward J., and C. M. Fitch, Chicago, Ill. Vehicle-signal. No. 1,028,854; June 11; Sp. p. 1698; Gaz. vol. 179; p. 297.
Best, Edwin J., Ensley, Ala. Pressure-reducing valve. No. 1,020,959; Mar. 26; Sp. p. 4160; Gaz. vol. 176; p. 774.
Best, Edwin J., Ensley, assignor of one-half to F. Kestler, Birmingham, Ala. Cinder-leveler. No. 1,026,426; May 14; Sp. p. 2947; Gaz. vol. 178; p. 488.
Best Manufacturing Company, The. (See Best, Clarence L., assignor.)
Best, Otto. (See Kassander and Best.)
Best, William J., Detroit, Mich. Burner-igniter. No. 1,020,075; Mar. 12; Sp. p. 2269; Gaz. vol. 176; p. 391.
Best, William N., Sr., New York, N. Y. Gas-burner. No. 1,042,872; Oct. 29; Gaz. vol. 183; p. 1215.
Besta, Paul, Ratingen, Germany. Railway braking device. No. 1,047,154; Dec. 17; Gaz. vol. 185; p. 538.
Beswick, Charles W., Tiltonsville, Ohio. Closet-bowl. No. 1,037,110; Aug. 27; Gaz. vol. 181; p. 1021.
Beth, Otto, Lynbrook, N. Y. Biplane kite. No. 1,022,293; Apr. 2; Sp. p. 1134; Gaz. vol. 177; p. 181.
Betham, William R., Chicago, Ill. Edge-protector for tied boxes. No. 1,041,413; Oct. 15; Gaz. vol. 183; p. 654.
Bethancourt, Justimen E., Houma, La. Oil-can. No. 1,021,653; Mar. 26; Sp. p. 5614; Gaz. vol. 176; p. 1009.
Bethard, Albert G., Decatur, Ala. Double-cylinder engine. No. 1,026,198; May 14; Sp. p. 2449; Gaz. vol. 178; p. 411.
Bethel, Harry L., Tampa, assignor of one-half to J. H. Miller, Hillsboro county, Fla. Guard for buoys. No. 1,037,111; Aug. 27; Gaz. vol. 181; p. 1021.
Bethel, Joseph T., South Richmond, Va. Lamp-burner. No. 1,035,307; Aug. 13; Gaz. vol. 181; p. 336.
Bethlehem Steel Company. (See Gathmann, Emil, assignor.) (Reissue.)
Bethlehem Steel Company. (See Meigs and Stout, assignors.)
Bethlehem Steel Company. (See Philp, Casimir von, assignor.)
Bettendorf Axle Company. (See Clasen, Claus J. W., assignor.)
Bettendorf Axle Company. (See Taylor, Ralph G., assignor.)
Bettendorf, Joseph W., administrator. (See Bettendorf, William P.)
Bettendorf, Joseph W., Bettendorf, Iowa. Car-truck construction. No. 1,020,960; Mar. 26; Sp. p. 4163; Gaz. vol. 176; p. 774.
Bettendorf, William P., deceased, Davenport, Iowa; J. W. Bettendorf, administrator. Shifting device for press-feeding mechanism. No. 1,016,062; Jan. 30; Sp. p. 6534; Gaz. vol. 174; p. 1135.
Bettendorf, William P., deceased, Davenport, Iowa; J. W. Bettendorf, administrator. Feeding mechanism for hydraulic presses. No. 1,021,501; Mar. 26; Sp. p. 5327; Gaz. vol. 176; p. 960.
Bettendorf, William P., deceased, Davenport, Iowa; J. W. Bettendorf, administrator. Draft-rigging. No. 1,025,445; May 7; Sp. p. 756; Gaz. vol. 178; p. 117.
Bettendorf, William P., deceased, Davenport, Iowa; J. W. Bettendorf, administrator. Metal-box-car construction. No. 1,031,232; July 2; Gaz. vol. 180; p. 135.
Bettendorf, William P., deceased, Bettendorf; J. W. Bettendorf, administrator, Davenport, Iowa. Guard-cleat for railway-car doors. No. 1,025,446; May 7; Sp. p. 760; Gaz. vol. 178; p. 117.
Bettendorf, William P., deceased, Bettendorf; J. W. Bettendorf, administrator, Davenport, Iowa. Roof for cars. No. 1,026,899; May 21; Sp. p. 3988; Gaz. vol. 178; p. 686.
Bettendorf, William P., deceased, Bettendorf, Iowa; J. W. Bettendorf, administrator. Hydraulic press. No. 1,028,986; June 11; Sp. p. 1996; Gaz. vol. 179; p. 344.
Bettendorf, William P., deceased, Bettendorf, Iowa; J. W. Bettendorf, administrator. Flipper for feed mechanism of hydraulic presses. No. 1,028,987; June 11; Sp. p. 1998; Gaz. vol. 179; p. 345.
Bettendorf, William P., deceased; J. W. Bettendorf, administrator, Bettendorf, Iowa. Feeding-truck for hydraulic presses. No. 1,030,768; June 25; Sp. p. 6126; Gaz. vol. 179; p. 1040.
Bettendorf, William P., deceased, Bettendorf, Iowa; J. W. Bettendorf, administrator. Railway-car truck. No. 1,032,348; July 9; Gaz. vol. 180; p. 559.
Bettendorf, William P., deceased, Bettendorf, Iowa; J. W. Bettendorf, administrator. Means for cushioning the bodies of railway-cars. No. 1,035,847; Aug. 20; Gaz. vol. 181; p. 556.
Bettendorf, William P., deceased, Bettendorf; J. W. Bettendorf, administrator, Davenport, Iowa. Underframe for cars. No. 1,035,848; Aug. 20; Gaz. vol. 181; p. 557.
Bettendorf, William P., deceased, Bettendorf, Iowa; J. W. Bettendorf, administrator. Box-car construction. No. 1,036,786; Aug. 27; Gaz. vol. 181; p. 912.
Bettendorf, William P., deceased, Bettendorf, Iowa; J. W. Bettendorf, administrator. Underframe for dumping-cars. No. 1,039,638; Sept. 24; Gaz. vol. 182; p. 924.
Bettendorf, William P., deceased, Bettendorf, Iowa; J. W. Bettendorf, administrator. Automatic pressure-controlling valve for hydraulic presses. No. 1,046,949; Dec. 10; Gaz. vol. 185; p. 439.
Bettermann, Reinhold, Johnstown, Pa. Truck for automobile-bodies. No. 1,029,843; June 18; Sp. p. 3883; Gaz. vol. 179; p. 676.
Bettin, Emma A., Los Angeles, Cal. Game for musical instruction. No. 1,014,936; Jan. 16; Sp. p. 4127; Gaz. vol. 174; p. 695.
Bettini, Gianni, Paris, France. Spinning device. No. 1,036,425; Aug. 20; Gaz. vol. 181; p. 759.
Bettis, William I., Houston, Tex., assignor of one-half to J. G. Gray, Vinton, La. Sampling device for Artesian wells. No. 1,023,918; Apr. 23; Sp. p. 4615; Gaz. vol. 177; p. 821.
Betts, Benjaman B., St. Louis, Mo., assignor to Positive Rail Anchor Company, Louisville, Ky. Combined tie-plate and anchor for railway-rails. No. 1,024,114; Apr. 23; Sp. p. 5035; Gaz. vol. 177; p. 889.
Betts, Benjamin B., St. Louis, Mo., assignor to Positive Rail Anchor Company, Louisville, Ky. Rail-anchor. No. 1,036,518; Aug. 20; Gaz. vol. 181; p. 790.
Betts, Benjaman F., Goldroad, Ariz. Drill-extractor. No. 1,024,173; Apr. 23; Sp. p. 5175; Gaz. vol. 177; p. 909.
Betts, Benjamin F., Mazuma, Nev. Drill-extractor. No. 1,042,873; Oct. 29; Gaz. vol. 183; p. 1215.
Betts, Charles L., assignor to R. E. Dietz Company, New York, N. Y. Vehicle-lamp. No. 1,018,030; Feb. 20; Sp. p. 3995; Gaz. vol. 175; p. 691.
Betts, Charles L., assignor to R. E. Dietz Company, New York, N. Y. Lamp. No. 1,041,414; Oct. 15; Gaz. vol. 183; p. 654.
Betts, Charles L., assignor to R. E. Dietz Company, New York, N. Y. Tubular lantern. No. 1,044,855; Nov. 19; Gaz. vol. 184; p. 691.
Betts, Lewis F., New York, assignor to A. A. Low, Horseshoe, M. J. Wohl, and H. Hertzberg, Brooklyn, N. Y., trustees. Oil-stove. No. 1,019,123; Mar. 5; Sp. p. 258; Gaz. vol. 176; p. 40.
Betts, Lewis F., New York, assignor to A. A. Low, Horseshoe, M. J. Wohl, and H. Hertzberg, Brooklyn, N. Y., trustees. Gas-heater. No. 1,026,427; May 14; Sp. p. 2951; Gaz. vol. 178; p. 489.
Betts, Lewis F., New York, assignor to A. A. Low, Horseshoe, M. J. Wohl and H. Hertzberg, Brooklyn, N. Y., trustees. Gas-heater. No. 1,028,666; June 4; Sp. p. 1301; Gaz. vol. 179; p. 200.
Betts, Lewis F., New York, assignor to A. A. Low, Horseshoe, M. J. Wohl and H. Hertzberg, Brooklyn, N. Y., trustees. Oven. No. 1,040,855; Oct. 8; Gaz. vol. 183; p. 431.
Betts, Morehouse T., Ballston Spa, N. Y. Neck-yoke. No. 1,046,725; Dec. 10; Gaz. vol. 185; p. 364.
Betts, Solomon C., Maumee, Ohio, and A. Boucher, Scottville, Mich. Coupling device. No. 1,041,415; Oct. 15; Gaz. vol. 183; p. 655.
Betz, Charles F., St. Louis, Mo. Dough-cutting machine. No. 1,017,374; Feb. 13; Sp. p. 2527; Gaz. vol. 175; p. 428.

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Betz, William G., Chicago Heights, assignor to Steger & Sons Piano Manufacturing Company, Chicago, Ill. Pneumatic piano. No. 1,014,364; Jan. 9; Sp. p. 2850; Gaz. vol. 174; p. 471.
Betz, William G., Chicago Heights, assignor to Steger & Sons Piano Manufacturing Company, Chicago, Ill. Rewinding device for pneumatic pianos. No. 1,015,128; Jan. 16; Sp. p. 4516; Gaz. vol. 174; p. 761.
Betz, William G., Chicago Heights, assignor to Steger & Sons Piano Manufacturing Company, Chicago, Ill. Pneumatic piano. No. 1,021,502; Mar. 26; Sp. p. 5331; Gaz. vol. 176; p. 960.
Betz, William G., Chicago Heights, assignor to Steger & Sons Piano Manufacturing Company, Chicago, Ill. Tracking device for pneumatic pianos. No. 1,024,174; Apr. 23; Sp. p. 5177; Gaz. vol. 177; p. 909.
Betz, William G., Chicago Heights, assignor to Steger & Sons Piano Manufacturing Company, Chicago, Ill. Hammer-rail construction for pneumatic pianos. No. 1,037,584; Sept. 3; Gaz. vol. 182; p. 137.
Betz, William G., Steger, assignor to Steger & Sons Piano Manufacturing Company, Chicago, Ill. Pneumatic piano. No. 1,023,613; Apr. 16; Sp. p. 3954; Gaz. vol. 177; p. 694.
Betz, William G., Chicago Heights, assignor to Steger & Sons Piano Manufacturing Company, Chicago, Ill. Pneumatic piano. No. 1,048,486; Dec. 31; Gaz. vol. 185; p. 1064.
Beugler, Edwin F., assignor to E. & B. Holmes Machinery Company, Buffalo, N. Y. Machine for equalizing barrel-staves. No. 1,018,739; Feb. 27; Sp. p. 5580; Gaz. vol. 175; p. 966.
Beugler, Edwin F., assignor to E. & B. Holmes Machinery Co., Buffalo, N. Y. Heading-up machine. No. 1,027,803; May 28; Sp. p. 5922; Gaz. vol. 178; p. 1029.
Beuoy, George, Cedar Vale, Kans. Tool attachment. No. 1,025,362; May 7; Sp. p. 570; Gaz. vol. 178; p. 89.
Beuoy, George, Cedar Vale, Kans. Caponizing instrument. No. 1,025,363; May 7; Sp. p. 572; Gaz. vol. 178; p. 89.
Beurrier, Alexis, Montguyon, France. Propelling mechanism for aerial apparatus. No. 1,048,932; Dec. 31; Gaz. vol. 185; p. 1220.
Beust, Anton von. (See Lengerke and Beust.)
Beutner, Amanda, New York, N. Y. Hat or bonnet pin protector. No. 1,026,942; May 21; Sp. p. 4119; Gaz. vol. 178; p. 701.
Bevan, William R., Belvedere, and D. T. Morley, Welling, England. Nut-lock. No. 1,040,609; Oct. 8; Gaz. vol. 183; p. 349.
Bevard, Alvin F., assignor of one-half to P. McDermott, Carnegie, Pa. Trolley. No. 1,044,978; Nov. 19; Gaz. vol. 184; p. 734.
Bevard, Edward M. (See Rosino, Bevard, and Herrig.)
Bévenot, Paul, Paris, and E. de Neveu, Asnières, France. Desiccating process. No. 1,020,632; Mar. 19; Sp. p. 3465; Gaz. vol. 176; p. 612.
Beverstock, Charles W., Los Angeles, Cal. Concrete construction. No. 1,037,416; Sept. 3; Gaz. vol. 182; p. 80.
Bevington, James H., assignor to Kohler Die & Specialty Company, Chicago, Ill. Sounding toy. No. 1,043,796; Nov. 12; Gaz. vol. 184; p. 294.
Beydler, Frank M., Ashland, Kans. Spring-wheel. No. 1,035,410; Aug. 13; Gaz. vol. 181; p. 372.
Beyer, Emil. (See Schaefer and Beyer.)
Beyer, Herman E., Birmingham, Ala. Condenser. No. 1,041,954; Oct. 22; Gaz. vol. 183; p. 873.
Beyer, Otto S., East Rutherford, N. J., assignor to Automatic Platen Press Company, New York, N. Y. Sheet-registering device. No. 1,014,112; Jan. 9; Sp. p. 2289; Gaz. vol. 174; p. 381.
Beyer, Otto S., Hyde Park, assignor to B. F. Sturtevant Company, Boston, Mass. Making sheet-metal radiators. No. 1,018,156; Feb. 20; Sp. p. 4283; Gaz. vol. 175; p. 735.
Beyette, William H., Houston, Tex. Attachment for display-figures. No. 1,024,244; Apr. 23; Sp. p. 5341; Gaz. vol. 177; p. 936.
Beymer, Adelbert S., Kansas City, Mo. Cultivator. No. 1,014,038; Jan. 9; Sp. p. 2129; Gaz. vol. 174; p. 356.
Beyrle, Robert, Los Angeles, Cal. Gold saving and amalgamating machine. No. 1,037,195; Sept. 3; Gaz. vol. 182; p. 6.
Bezold, John E., Jersey City, N. J. Bookcase or the like. No. 1,015,722; Jan. 23; Sp. p. 5801; Gaz. vol. 174; p. 989.
Bialik, Anthony, *et al.* (See Bialik, Paul, assignor.)
Bialik, Bruno, *et al.* (See Bialik, Paul, assignor.)
Bialik, George, *et al.* (See Bialik, Paul, assignor.)
Bialik, Louis, *et al.* (See Bialik, Paul, assignor.)
Bialik, Paul, assignor of one-eighth to L. Bialik, one-eighth to B. Bialik, and one-eighth to A. Bialik, Pine Lawn, Mo., and one-eighth to G. Bialik, U. S. Navy. Transposing-keyboard. No. 1,043,504; Nov. 5; Gaz. vol. 184; p. 165.
Bianchi, Elia, Milan, Italy. Apparatus for molding concrete beams. No. 1,029,043; June 11; Sp. p. 2122; Gaz. vol. 179; p. 365.
Bianchi, Elia, Milan, Italy. Apparatus for constructing hollow cement monoliths or blocks. No. 1,040,856; Oct. 8; Gaz. vol. 183; p. 431.
Bibb, George H., Silverton, Colo. Portable rock-drill. No. 1,022,578; Apr. 9; Sp. p. 1739; Gaz. vol. 177; p. 307.
Bibb, Thomas W., Seattle, Wash. Ohmmeter. No. 1,049,040; Dec. 31; Gaz. vol. 185; p. 1258.
Biberstein, Frank, Milwaukee, Wis. Aeroplane. No. 1,021,178; Mar. 26; Sp. p. 4614; Gaz. vol. 176; p. 847.
Bicalky, Charles H., Buffalo, N. Y. Spring-wheel. No. 1,045,363; Nov. 26; Gaz. vol. 184; p. 896.
Bichel, Christian E., Hamburg, Germany, assignor to E. I. du Pont de Nemours Powder Company, Wilmington, Del. Explosive charge and explosive body for projectiles, mines, and torpedoes. No. 1,036,176; Aug. 20; Gaz. vol. 181; p. 671.
Bickel, August H., Bridgeport, Conn. Sad-iron. No. 1,024,306; Apr. 23; Sp. p. 5454; Gaz. vol. 177; p. 956.
Bickel, Charles B., Reading, Pa. Threading-tool. No. 1,031,905; July 9; Gaz. vol. 180; p. 409.
Bickel, John F., Racine, Wis. Bolster-spring. No. 1,042,312; Oct. 22; Gaz. vol. 183; p. 990.
Bickel, Samuel W., Newtown, Ohio. Attachment for potato-planters. No. 1,041,580; Oct. 15; Gaz. vol. 183; p. 707.
Bickers, Henry C., Batesville, Ark. Cotton chopper and cultivator. No. 1,016,733; Feb. 6; Sp. p. 1124; Gaz. vol. 175; p. 173.
Bickerton, Fred. (See Bowen, Charles A., assignor.)
Bickford, Elbridge S., Bristol, N. H. Sprinkling device. No. 1,039,084; Sept. 24; Gaz. vol. 182; p. 729.
Bickford, Henry R., Monterey, Cal. Electric switch. No. 1,047,372; Dec. 17; Gaz. vol. 185; p. 618.
Bickford & Sweet. (See Levy, Charles, assignor.)
Bickford, William H., Washington, Iowa. Gravity carrier system. No. 1,022,017; Apr. 2; Sp. p. 569; Gaz. vol. 177; p. 89.
Bickford, William H., Washington, Iowa. Loop-the-loop pleasure-railway. No. 1,040,125; Oct. 1; Gaz. vol. 183; p. 153.
Bickley, Ross M., assignor to Heyl & Patterson Incorporated, Pittsburgh, Pa. Batch-mixer. No. 1,046,248; Dec. 3; Gaz. vol. 185; p. 157.
Bidder, Fritz von. (See Seward, Kügelgen, and Bidder.)
Biderman, Julius, New York, N. Y. Luggage-carrier. No. 1,031,165; July 2; Gaz. vol. 180; p. 112.
Bidle, William S., and J. A. Costello, assignors to Cleveland Car Specialty Company, Cleveland, Ohio. Car-roof. No. 1,044,732; Nov. 19; Gaz. vol. 184; p. 648.
Bidle, William S., and J. A. Costello, assignors to Cleveland Car Specialty Company, Cleveland, Ohio. Carline for car-roofs. No. 1,044.733; Nov. 19; Gaz. vol. 184; p. 649.
Bidle, William S., and J. A. Costello, assignors to Cleveland Car Specialty Company, Cleveland, Ohio. Car-roof construction. No. 1,049,041; Dec. 31; Gaz. vol. 185; p. 1258.
Bidwell, Egbert A., Jefferson City, Mo. Liquid-separator. No. 1,034,571; Aug. 6; Gaz. vol. 181; p. 57.
Bidwell, F. S. (See Tyler, Aaron J., assignor.)
Bidwell, Frank E. (See Fletcher, Morris D., assignor.)
Bidwell, Frank S. (See Tyler, Aaron J., assignor.)
Bidwell, Hudson. (See Alexander, Jesse, assignor.)
Biebes, William H. (See King, Jesse C., assignor.)
Biechele, Edward A., Canton, Ohio. Furnace. No. 1,025,673; May 7; Sp. p. 1262; Gaz. vol. 178; p. 195.
Biederman, Daniel, Kittanning, Pa. Non-refillable bottle and stopper. No. 1,044,979; Nov. 19; Gaz. vol. 184; p. 734.
Bieghler, E. B., *et al.* (See Cunningham, Edward R., assignor.)
Bielefelder Maschinenfabrik vormals Durkopp & Co. (See Schilling, August, assignor.)
Bien, Van Tuyl H., Quincy, Mass. Feed mechanism for punching-presses. No. 1,028,927; June 11; Sp. p. 1875; Gaz. vol. 179; p. 324.
Bienenzucht, Abraham, New York, N. Y. Buckle. No. 1,027,979; May 28; Sp. p. 6346; Gaz. vol. 178; p. 1089.
Biener, Herman L., assignor to Auto Sectional Leather Tire Company, New York, N. Y. Wheel-tire. No. 1,018,292; Feb. 20; Sp. p. 4555; Gaz. vol. 175; p. 782.
Bienhoff, Benjamin B., St. Paul, Minn. Display apparatus. No. 1,047,904; Dec. 17; Gaz. vol. 185; p. 804.
Bieniek, John G., Chicago, Ill. Valve. No. 1,032,649; July 16; Gaz. vol. 180; p. 705.
Bienutta, Hans, G. Fischbach, and C. Zigahn, Lyck, Germany. Heat-insulated cooker. No. 1,041,581; Oct. 15; Gaz. vol. 183; p. 707.
Bienz, Johann, Berne, Switzerland. Device for manufacturing mineral water. No. 1,015,753; Jan. 23; Sp. p. 5865; Gaz. vol. 174; p. 1000.
Bienz, Johann, Berne, Switzerland. Manufacturing mineral waters. No. 1,021,087; Mar. 26; Sp. p. 4417; Gaz. vol. 176; p. 818.
Bier, Leo E., Corvallis, Oreg. Adjustable rest for beds. No. 1,041.955; Oct. 22; Gaz. vol. 183; p. 873.
Bieracki, John W., New Haven, Conn. Guard for hat-pins. No. 1,022,120; Apr. 2; Sp. p. 779; Gaz. vol. 177; p. 124.
Bierhals, Gebhard, Berlin, Germany. Nozzle for calcining-furnaces and the like. No. 1,046,726; Dec. 10; Gaz. vol. 185; p. 364.

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Biertuempfel, Albert H., Newark, N. J. Machine for splitting cork-bark. No. 1,038,272; Sept. 10; Gaz. vol. 182; p. 400.
Biery, William G. (See Beaucondray and Biery.)
Bigelow Company, The. (See Horsley, William, assignor.)
Bigelow, Edwin C., New York, N. Y. Temporary binding device. No. 1,035,769; Aug. 13; Gaz. vol. 181; p. 492.
Bigelow, Frank B. (See Fortune and Bigelow.)
Bigelow, Frank B., Chicago, Ill. Fire-box grate. No. 1,013,114; Jan. 2; Sp. p. 42; Gaz. vol. 174; p. 9.
Bigelow, Frank B., assignor to Murphy Iron Works, Detroit, Mich. Arch-plate. No. 1,026,645; May 14; Sp. p. 3410; Gaz. vol. 178; p. 561.
Bigelow, George E., assignor to The Mattatuck Manufacturing Company, Waterbury, Conn. Stranding-machine. No. 1,043,896; Nov. 12; Gaz. vol. 184; p. 330.
Bigelow, George E., assignor to The Mattatuck Manufacturing Company, Waterbury, Conn. Fabric-making machine. No. 1,043,897; Nov. 12; Gaz. vol. 184; p. 330.
Bigelow, George E., assignor to The Mattatuck Manufacturing Company, Waterbury, Conn. Stranding-machine. No. 1,043,898; Nov. 12; Gaz. vol. 184; p. 330.
Bigelow, George W., New Haven, Conn. Damper-regulator. No. 1,017,731; Feb. 20; Sp. p. 3266; Gaz. vol. 175; p. 585.
Bigelow, John K., Elmhurst, assignor of one-half to W. E. Draper, Oakland, Cal. Reamer-holder. No. 1,045,935; Dec. 3; Gaz. vol. 185; p. 47.
Bigelow, Merle E., Milford Center, Ohio. Wrench. No. 1,041,956; Oct. 22; Gaz. vol. 183; p. 873.
Bigelow, Samuel A., assignor to Sumner Manufacturing Company, Boston, Mass. Machine for mixing liquid and powdered materials. No. 1,027,172; May 21; Sp. p. 4633; Gaz. vol. 178; p. 778.
Biggar, James G., New York, N. Y. Counter. No. 1,039,485; Sept. 24; Gaz. vol. 182; p. 870.
Biggar, Leroy A., assignor to Oneida Steel Pulley Company, Oneida, N. Y. Pulley. No. 1,025,108; Apr. 30; Sp. p. 7219; Gaz. vol. 177; p. 1264.
Biggers, Dennis D., May, Okla. Railway-telephone. No. 1,038,832; Sept. 17; Gaz. vol. 182; p. 630.
Biggers, Samuel A., assignor of one-half to A. B. Gardenhire, McLean, Tex. Washing-machine. No. 1,035,520; Aug. 13; Gaz. vol. 181; p. 410.
Biggs, Edward, assignor to John & Hugo Jaburg, New York, N. Y. Bread-proving closet. No. 1,037,417; Sept. 3; Gaz. vol. 182; p. 81.
Biggs, Elbridge, Franklin, Ky. Pad-making machine for bookbinders. No. 1,034,339; July 30; Gaz. vol. 180; p. 1343.
Biggs, Thomas C., *et al.* (See Perkins, James D., assignor.)
Bignell, Edward. (See Maher and Bignell.)
Bignell, Edward, Lincoln, Nebr. Piling construction. No. 1,024,820; Apr. 30; Sp. p. 6633; Gaz. vol. 177; p. 1167.
Bignell, Edward, Lincoln, Nebr. Caisson construction. No. 1,024,821; Apr. 30; Sp. p. 6636; Gaz. vol. 177; p. 1168.
Bignell, Edward, Lincoln, Nebr. Sheet-piling. No. 1,024,822; Apr. 30; Sp. p. 6639; Gaz. vol. 177; p. 1168.
Bignell, Edward, Lincoln, Nebr. Self-sinking caisson. No. 1,024,823; Apr. 30; Sp. p. 6641; Gaz. vol. 177; p. 1169.
Bignell, Edward, Lincoln, Nebr. Concrete piling. No. 1,026,144; May 14; Sp. p. 2326; Gaz. vol. 178; p. 393.
Bigney, Sidney O. (See Hodges, James C., assignor.)
Bigney, Sidney O. (See Smith, Cyril A., assignor.)
Bigney, Sidney O., Attleboro, Mass. Bracelet. No. 1,041,729; Oct. 22; Gaz. vol. 183; p. 794.
Bigsby, Herbert B., and W. M. Lewis, New Hartford, Iowa. Spring-hub for vehicle-wheels. No. 1,039,014; Sept. 17; Gaz. vol. 182; p. 690.
Bijur, Joseph, New York, N. Y., assignor, by mesne assignments, to The Electric Storage Battery Company, Philadelphia, Pa. System of alternating-current regulation. No. 1,014,373; Jan. 9; Sp. p. 2864; Gaz. vol. 174; p. 474.
Bijur, Joseph, New York, N. Y., and J. M. Joy, Boonton, N. J., assignors to The Durafort Company, New York, N. Y. Fire-extinguisher. No. 1,015,987; Jan. 30; Sp. p. 6367; Gaz. vol. 174; p. 1108.
Bilbro, Isaac F., Wetumpka, Ala. Combined rake and pitchfork. No. 1,041,416; Oct. 15; Gaz. vol. 183; p. 655.
Bilger, Luke A., Chicago, Ill. Renewable sole for shoes. No. 1,034,960; Aug. 6; Gaz. vol. 181; p. 187.
Bilgram, Hugo, Philadelphia, Pa. Gear-cutting machine. (Reissue.) No. 13,502; Dec. 31; Gaz. vol. 185; p. 1355.
Billado, Jason A., assignor of one-half to W. W. Nichols, Rutland, Vt. Horseshoe. No. 1,027,804; May 28; Sp. p. 5927; Gaz. vol. 178; p. 1029.
Billau, Charles F., Cedar Rapids, Iowa. Cutting device. No. 1,028,667; June 4; Sp. p. 1302; Gaz. vol. 179; p. 200.
Billé, Léon, Nogent-sur-Marne, France. Joint for conduits and the like. No. 1,016,124; Jan. 30; Sp. p. 6653; Gaz. vol. 174; p. 1157.
Billings, Frank, Cleveland, Ohio. Conveyer for use in mines. No. 1,030,226; June 18; Sp. p. 4691; Gaz. vol. 179; p. 807.
Billings, Frederic C., assignor to The Billings & Spencer Company, Hartford, Conn. Safety lathe-dog. No. 1,044,856; Nov. 19; Gaz. vol. 184; p. 691.
Billings & Spencer Company, The. (See Billings, Frederic C., assignor.)
Billings, Walter H., Newton, assignor to Milton Chemical Company, Cambridge, Mass. Mop-holder. No. 1,022,816; Apr. 9; Sp. p. 2282; Gaz. vol. 177; p. 390.
Billings, Walter H., Newton, assignor to Milton Chemical Company, Cambridge, Mass. Mop. No. 1,045,115; Nov. 26; Gaz. vol. 184; p. 810.
Billings, Walter H., Arlington, assignor to Milton Chemical Company, Cambridge, Mass. Mop. No. 1,048,796; Dec. 31; Gaz. vol. 185; p. 1174.
Billingsley, Maud M., Beaver Falls, Pa. Dough-raiser. No. 1,045,364; Nov. 26; Gaz. vol. 184; p. 897.
Billions, J. A. (See Fox, Thomas J., assignor.)
Billiter, Jean, Vienna, Austria-Hungary. Electrolysis of liquids. No. 1,037,585; Sept. 3; Gaz. vol. 182; p. 137.
Billman, Gustus S., Shelbyville, Ind. Machine for cleaning intestines. No. 1,023,547; Apr. 16; Sp. p. 3809; Gaz. vol. 177; p. 672.
Billman, Gustus S., Shelbyville, Ind. Intestine-cleaning machine. No. 1,048,487; Dec. 31; Gaz. vol. 185; p. 1065.
Billman, Obed C., Lodi, Ohio. Car-coupling. No. 1,045,365; Nov. 26; Gaz. vol. 184; p. 897.
Billows, Arthur J., Melbourne, Victoria, Australia. Aeration of liquids. No. 1,017,240; Feb. 13; Sp. p. 2253; Gaz. vol. 175; p. 383.
Bilyeu, Alfred A., Granby, Mo. Rotary steam-engine. No. 1,039,353; Sept. 24; Gaz. vol. 182; p. 824.
Binder, Benjamin F., and R. O. Deulen, Julesburg, Colo. Beet-topper. No. 1,041,003; Oct. 15; Gaz. vol. 183; p. 515.
Binder, Wilhelm, Altenessen, Germany. Gallery-frame for mines. No. 1,034,065; July 30; Gaz. vol. 180; p. 1249.
Bindrich, Charles. (See Hines, John H., assignor.)
Bines, Robert, *et al.*, trustees. (See Wilson, David H., assignor.)
Bines, William H. (See Baker, Blowers, and Bines.)
Bing, Ida, New York, N. Y. Brush. No. 1,016,734; Feb. 6; Sp. p. 1126; Gaz. vol. 175; p. 173.
Bing, Leon E., Indianapolis, Ind. Jeweler's appliance. No. 1,037,196; Sept. 3; Gaz. vol. 182; p. 6.
Bing, William S., San Diego, Cal. Hand-stamp. No. 1,048,281; Dec. 24; Gaz. vol. 185; p. 957.
Binger, William H., assignor of one-half to W. H. Burnett, San Francisco, Cal. Cutter-holder. No. 1,042,190; Oct. 22; Gaz. vol. 183; p. 950.
Bingham-Cameron Company. (See Bingham, George W., assignor.)
Bingham, Charles, London, England. Gas-generator. No. 1,038,077; Sept. 10; Gaz. vol. 182; p. 335.
Bingham, Cy J., John Day, Oreg. Folding plow. No. 1,040,263; Oct. 8; Gaz. vol. 183; p. 227.
Bingham, Eugene H., and T. Tominski, San Francisco, Cal. Vehicle-tire. No. 1,029,263; June 11; Sp. p. 2582; Gaz. vol. 179; p. 438.
Bingham, George W., New York, N. Y., assignor to The Bingham Manufacturing Company. Moving-picture machine. No. 1,037,112; Aug. 27; Gaz. vol. 181; p. 1021.
Bingham, George W., Brooklyn, N. Y., assignor to Bingham-Cameron Company. Film for moving-picture machines. No. 1,045,502; Nov. 26; Gaz. vol. 184; p. 946.
Bingham, Herbert B., Nashua, N. H. Eyeglass-reel. No. 1,024,115; Apr. 23; Sp. p. 5038; Gaz. vol. 177; p. 890.
Bingham Manufacturing Company, The. (See Bingham, George W., assignor.)
Bingham, Moses C. (See Debley, Edward F., assignor.)
Bingham, Robert O., assignor to The Wagner Manufacturing Company, Sidney, Ohio. Sausage-stuffer. No. 1,036,426; Aug. 20; Gaz. vol. 181; p. 759.
Binick, William, Milwaukee, Wis. Traveling-bag. No. 1,019,218; Mar. 5; Sp. p. 465; Gaz. vol. 176; p. 74.
Binkley, Frank C., Sycamore, Ill. Gasolene-heated appliance. No. 1,014,113; Jan. 9; Sp. p. 2291; Gaz. vol. 174; p. 382.
Binkley, Frank C., Sycamore, Ill. Hand-torch. No. 1,040,857; Oct. 8; Gaz. vol. 183; p. 431.
Binkley, John T., Chicago, Ill. Locking device for traveling-cases, sample-cases, &c. No. 1,022,817; Apr. 9; Sp. p. 2283; Gaz. vol. 177; p. 390.
Binning, Wood, Grand River, Iowa. Mold. No. 1,030,638; June 25; Sp. p. 5807; Gaz. vol. 179; p. 995.
Binns, Arthur E., South Windham, Conn. Suction apparatus for paper-machines, &c. No. 1,040,126; Oct. 1; Gaz. vol. 183; p. 153.
Binns, John E., Jr., Nashville, Tenn. Cultivator. No. 1,013,269; Jan. 2; Sp. p. 391; Gaz. vol. 174; p. 63.
Binns, John E., Jr., Nashville, Tenn. Gearing. No. 1,020,595; Mar. 19; Sp. p. 3379; Gaz. vol. 176; p. 600.
Binns, John E., Jr., Nashville, Tenn. Seed-planter. No. 1,020,680; Mar. 19; Sp. p. 3563; Gaz. vol. 176; p. 627.
Binns, John E., Jr., Nashville, Tenn. Covering-wheel for grain-drills. No. 1,020,681; Mar. 19; Sp. p. 3566; Gaz. vol. 176; p. 627.

Alphabetical list of patentees—Continued.

Biograph Company. (See Marvin, Harry N., assignor.)
Biossat, Thomas M., Jr. (See Wright and Biossat.)
Birawer, Ernst, Berlin, Germany. Apparatus for compressing air and other fluids. No. 1,037,586; Sept. 3; Gaz. vol. 182; p. 138.
Birch, Ralph, *et al.* (See Parsons, Cecil W., assignor.)
Birchim, James A. (See Barnes, Claude A., assignor.)
Bird, Charles S. (See Clarke, Ralph S., assignor.)
Bird, Charles S. (See Wyman, George R., assignor.)
Bird, Charles S., East Walpole, Mass. Reinforcing paper boxes. No. 1,022,923; Apr. 9; Sp. p. 2500; Gaz. vol. 177; p. 426.
Bird, Charles S., Walpole, Mass. Building material. No. 1,036,427; Aug. 20; Gaz. vol. 181; p. 759.
Bird, J. P. (See Schoettle, William G., assignor.)
Bird, John C., assignor to Union Steam Pump Company, Battle Creek, Mich. Valve mechanism for steam-engines. No. 1,047,912; Dec. 24; Gaz. vol. 185; p. 835.
Bird, Peter E., Jenkintown, Pa. Sharpening device. No. 1,013,115; Jan. 2; Sp. p. 46; Gaz. vol. 174; p. 9.
Bird, William T., assignor of one-half to J. S. Wartnaby, Sheffield, Iowa. Wire-gate fastener. No. 1,042,757; Oct. 29; Gaz. vol. 183; p. 1175.
Birdsey, Seeley P., assignor to Wilcox, Crittenden and Company, Incorporated, Middletown, Conn. Anchor. No. 1,047,155; Dec. 17; Gaz. vol. 185; p. 539.
Birdsey, Somers Company. (See Doolittle, James E., assignor.)
Birken, William J. (See Axt and Goodrich, assignors.)
Birkenkamp, Edward F. and T. F., Farmersville, Ill. Pneumatic conveyer. No. 1,034,961; Aug. 6; Gaz. vol. 181; p. 188.
Birkenkamp, Theodor F. (See Birkenkamp, Edward F. and T. F.)
Birkestrand, Albert J., Cambridge, Iowa. Shovel. No. 1,032,984; July 16; Gaz. vol. 180; p. 817.
Birmingham Small Arms Company Limited, The. (See Norman, George, assignor.)
Birnbaum, Theodore, London, England, assignor to Victor Talking Machine Company. Automatic brake for talking-machines. No. 1,021,756; Apr. 2; Sp. p. 1; Gaz. vol. 177; p. 3.
Birner, Joseph. (See Heil and Birner.)
Birney, Emmet H., Pittsburgh, Pa. Repeater. No. 1,046,950; Dec. 10; Gaz. vol. 185; p. 439.
Birrell, James and W., Seattle, Wash., assignors, by mesne assignments, to Water Vacuum Cleaner Co. Inc. Induced suction for vacuum-cleaners. No. 1,023,359; Apr. 16; Sp. p. 3434; Gaz. vol. 177; p. 613.
Birrell, James and W., assignors to Birrell Vacuum Vibrator Company, Seattle, Wash. Combined vibrator and vacuum apparatus. No. 1,025,504; May 7; Sp. p. 887; Gaz. vol. 178; p. 138.
Birrell Vacuum Vibrator Company. (See Birrell, James and W., assignors.)
Birrell, William. (See Birrell, James and W.)
Birt, William R., Jr., Wylde Green, near Birmingham, England. Mud-guard for cycles, motor-cycles, and vehicles. No. 1,034,066; July 30; Gaz. vol. 180; p. 1250.
Birt, William R., Jr., Wylde Green, near Birmingham, England. Mud-guard flap for cycles, motor-cycles, and vehicles. No. 1,034,067; July 30; Gaz. vol. 180; p. 1250.
Birtman Electric Company. (See English, Frederick A., assignor.)
Bisdorf, Wilhelm, assignor to Firm of A. W. Nagel, Barmen, Germany. Lace-making machine. No. 1,032,373; July 16; Gaz. vol. 180; p. 612.
Bisesi, Francesco, New York, N. Y. Key-operated lock. No. 1,027,173; May 21; Sp. p. 4634; Gaz. vol. 178; p. 778.
Bishop, Alfred H., Chicago, Ill. Firearm. No. 1,035,148; Aug. 13; Gaz. vol. 181; p. 278.
Bishop, Allen K., Forsyth, Mo. Combined hay rake and loader. No. 1,043,563; Nov. 5; Gaz. vol. 184; p. 185.
Bishop, Carlton T., and R. Jackson, Sewickley, Pa. Game-scoring device. No. 1,046,433; Dec. 10; Gaz. vol. 185; p. 258.
Bishop, Charles D., New Britain, Conn. Beam-scale. No. 1,036,787; Aug. 27; Gaz. vol. 181; p. 912.
Bishop, Charles F., Lestershire, N. Y. Drip-pan. No. 1,034,340; July 30; Gaz. vol. 180; p. 1344.
Bishop, Clarence A., New York, N. Y. Calculating instrument. No. 1,039,245; Sept. 24; Gaz. vol. 182; p. 787.
Bishop, Ephraim M., Kingston, N. Y. Fire-extinguisher. No. 1,027,308; May 21; Sp. p. 4909; Gaz. vol. 178; p. 826.
Bishop, Ephraim M., Kingston, N. Y. Foot-rest. No. 1,042,874; Oct. 29; Gaz. vol. 183; p. 1216.
Bishop, Ephraim M., Kingston, N. Y. Lock for vehicles. No. 1,042,875; Oct. 29; Gaz. vol. 183; p. 1216.
Bishop, Frederick R., North Attleboro, Mass. Eyeglass-holder. No. 1,024,434; Apr. 23; Sp. p. 5714; Gaz. vol. 177; p. 995.
Bishop, George H., Chicago, Ill. Dampening apparatus. No. 1,030,380; June 25; Sp. p. 5056; Gaz. vol. 179; p. 902.
Bishop, Howard B., New York, N. Y. Cleansing fabrics. No. 1,016,928; Feb. 13; Sp. p. 1540; Gaz. vol. 175; p. 274.
Bishop, James T., Saltillo, Miss. Brake mechanism. No. 1,025,115; May 7; Sp. p. 2; Gaz. vol. 178; p. 3.
Bishop, Roscoe F., *et al.* (See Perkins, James D., assignor.)
Bishop, William, Saxonburg, Pa. Derrick connection. No. 1,026,845; May 21; Sp. p. 3860; Gaz. vol. 178; p. 667.
Bissell, Benjamin W., Portland, Ind. Ballast-tamping machine. No. 1,048,797; Dec. 31; Gaz. vol. 185; p. 1174.
Bissell, Carl H., assignor to Crouse-Hinds Company, Syracuse, N. Y. Incandescent-electric-lamp socket. No. 1,035,149; Aug. 13; Gaz. vol. 181; p. 279.
Bissell, Carl H., assignor to Crouse-Hinds Company, Syracuse, N. Y. Electric-lamp socket. No. 1,036,548; Aug. 27; Gaz. vol. 181; p. 832.
Bissell, Carl H., and F. Smith, assignors to Crouse-Hinds Company, Syracuse, N. Y. Electric-conduit fitting. No. 1,034,572; Aug. 6; Gaz. vol. 181; p. 57.
Bissell, Carl H., and C. B. Garling, assignors to Crouse-Hinds Company, Syracuse, N. Y. Electric-conduit fitting. No. 1,043,797; Nov. 12; Gaz. vol. 184; p. 295.
Bissell Carpet Sweeper Co. (See Mason and Shanahan, assignors.)
Bissell, Joseph, Birmingham, England. Grinding pen-nibs. No. 1,024,435; Apr. 23; Sp. p. 5715; Gaz. vol. 177; p. 995.
Bissell, Joseph E., Pittsburgh, Pa. Power-transmitting mechanism. No. 1,038,833; Sept. 17; Gaz. vol. 182; p. 630.
Bissell, Joseph E., Pittsburgh, Pa. Aeroplane. No. 1,042,758; Oct. 29; Gaz. vol. 183; p. 1175.
Bissell, Randall M., Valcour, N. Y. Coated-metal-wire rubber fabric. No. 1,036,428; Aug. 20; Gaz. vol. 181; p. 759.
Bissett, Harry L., *et al.* (See Christman, Matthias, assignor.)
Bissing, Harry, New York, N. Y. Stage-pocket. No. 1,032,374; July 16; Gaz. vol. 180; p. 613.
Bittel, Emmett A. (See Bonney, Bick R., assignor.)
Bitterlich, Albert, Cassel, Germany. Surgical appliance. No. 1,013,924; Jan. 9; Sp. p. 1872; Gaz. vol. 174; p. 319.
Bitterman, Simon, Clayton, N. Mex. Artificial timber. No. 1,034,680; Aug. 6; Gaz. vol. 181; p. 92.
Bitters, Henry. (See Herron and Bitters.)
Bittmann, Heinrich, assignor to Metallbank & Metallurgische Gesellschaft A. G., Frankfort-on-the-Main, Germany. Charging device for gas-producers and other furnaces. No. 1,045,768; Nov. 26; Gaz. vol. 184; p. 1040.
Bittner, Arthur G., assignor to W. T. Stone and J. Cantlin, Rock Falls, Ill. Detachable runner. No. 1,035,521; Aug. 13; Gaz. vol. 181; p. 410.
Bittner, John, Newcastle, Ind. Piston for explosive-engines. No. 1,017,498; Feb. 13; Sp. p. 2801; Gaz. vol. 175; p. 473.
Bittner, John, Newcastle, Ind. Tongs. No. 1,026,488; May 14; Sp. p. 3082; Gaz. vol. 178; p. 508.
Bittner, Phillip J. (See Primbs and Bittner.)
Bittorf, Louis A., assignor to National Manufacturing Company, Sterling, Ill. Window-screen hanger. No. 1,018,603; Feb. 27; Sp. p. 5300; Gaz. vol. 175; p. 920.
Bittorf, Louis A., assignor to National Manufacturing Company, Sterling, Ill. Door-hanger. No. 1,039,246; Sept. 24; Gaz. vol. 182; p. 788.
Bituminous Road Implement Company. (See Price, Charles P., assignor.)
Bivert, Eugene, assignor to Smith-Bivert Company, Chicago, Ill. Muffler. No. 1,045,936; Dec. 3; Gaz. vol. 185; p. 48.
Bixler, Eli, Berne, Ind. Automatic air-brake coupling. No. 1,031,617; July 2; Gaz. vol. 180; p. 266.
Bixler, William D., assignor of one-half to W. Schmidt, Fort Worth, Tex. Egg-tester. No. 1,042,191; Oct. 22; Gaz. vol. 183; p. 950.
Bjelland, Oliver, Marietta, Wash. Tobacco-can attachment. No. 1,045,366; Nov. 26; Gaz. vol. 184; p. 897.
Björgum, Nils, Asker, near Christiania, Norway. Cartridge-feed belt. No. 1,038,078; Sept. 10; Gaz. vol. 182; p. 336.
Bjork, Nils. (See Bergsten, Oscar J. F., assignor.)
Bjorkland, Gustave, Bayonne, N. J. Pneumatic action for player-pianos and similar musical instruments. No. 1,023,986; Apr. 23; Sp. p. 4756; Gaz. vol. 177; p. 844.
Björkman, Gustav, Racine, Wis. Massaging-syringe. No. 1,043,899; Nov. 12; Gaz. vol. 184; p. 330.
Björkstam, Adolf L., and J. M. Ferguson, Seattle, Wash. Automatically-controlled by-pass. No. 1,031,514; July 2; Gaz. vol. 180; p. 231.
Black, Albert B., Concord, Mass., and J. H. McKee, Harvey, assignors to Austin Manufacturing Company, Chicago, Ill. Jaw-crusher. No. 1,032,808; July 16; Gaz. vol. 180; p. 760.
Black, Allen G., Springfield, Mass. Gas-controlling apparatus for automobiles. No. 1,023,003; Apr. 9; Sp. p. 2661; Gaz. vol. 177; p. 454.
Black, Allen G., Springfield, Mass. Gas controlling and lighting apparatus for automobiles. No. 1,023,004; Apr. 9; Sp. p. 2662; Gaz. vol. 177; p. 454.
Black, Arthur L., Jacksonville, Ill. Acetylene-gas generator. No. 1,016,665; Feb. 6; Sp. p. 993; Gaz. vol. 175; p. 150.
Black, Charles A., *et al.* (See Halliday, George, assignor.)

Alphabetical list of patentees—Continued.

Black, Charles A., Jr., Hightstown, N. J. Christmas-tree holder. No. 1,015,934; Jan. 30; Sp. p. 6250; Gaz. vol. 174; p. 1089.
Black, Charles A., Jr., Hightstown, N. J. Plant protector and support. No. 1,018,157; Feb. 20; Sp. p. 4287; Gaz. vol. 175; p. 736.
Black, David, Edwardsville, Ill. Aeroplane. No. 1,016,929; Feb. 13; Sp. p. 1541; Gaz. vol. 175; p. 274.
Black, David W., Butler, Pa. Deep-well packer. No. 1,035,850; Aug. 20; Gaz. vol. 181; p. 558.
Black, Edward C., Gibsonia, Pa Basket. No. 1,047,730; Dec. 17; Gaz. vol. 185; p. 744.
Black, Edward S., Chicago, Ill., assignor to Edgar Allen American Manganese Steel Company, Augusta, Me. Crusher-head for grinding-mills. No. 1,028,530; June 4; Sp. p. 1023; Gaz. vol. 179; p. 155.
Black, Elery E., Detroit, Mich. Pneumatic tire for vehicle-wheels. No. 1,023,454; Apr. 16; Sp. p. 3626; Gaz. vol. 177; p. 643.
Black, Ferdinand, assignor of thirty one-hundredths to O. Lerch, New Orleans, La. Non-refillable bottle. No. 1,040,858; Oct. 8; Gaz. vol. 183; p. 432.
Black, Frank J. (See Page and Black.)
Black, George B., Jr., Dundee, Scotland. Drag device for spinning-machines. No 1,027,805; May 28; Sp. p. 5928; Gaz. vol. 178; p. 1030.
Black, Horace D., London, England. Paper cutting and collecting machine. No. 1,027,099; May 21; Sp. p. 4484; Gaz. vol. 178; p. 756.
Black, Joe W., Gomez, Tex. Currycomb. No. 1,038,273; Sept. 10; Gaz. vol. 182; p. 401.
Black, John C., and M. L. Chappell, assignors to Standard Oil Company, Richmond, Cal. Utilizing acid sludge from refining petroleum. No. 1,031,413; July 2; Gaz. vol. 180; p. 198.
Black, John L., assignor of one-half to G. J. Lang, Hamilton, Ohio. Electrically-operated attachment for pianos. No. 1,048,798; Dec. 31; Gaz. vol. 185; p. 1175.
Black, John P., Greenfield, assignor of one-third to C. P. Duncan and one-third to D. H. Bentley, Deputy, Ind. Hydrocarbon-burner. No. 1,019,124; Mar. 5; Sp. p. 259; Gaz. vol. 176; p. 40.
Black, Lee J., Beaumont, Tex. Drilling-machine. No. 1,034,573; Aug. 6; Gaz. vol. 181; p. 58.
Black, Raleigh A., Hobart, Tasmania, Australia. Non-refillable bottle. No. 1,025,855; May 7; Sp. p. 1629; Gaz. vol. 178; p. 258.
Black Rock Machine Company, The. (See Noyes, Henry F., assignor.)
Black, Thomas W., Chicago, Ill. Pneumatic propelling mechanism. No. 1,030,966; July 2; Gaz. vol. 180; p. 40.
Black, Walter, Mendota, Ill. Wheel. No. 1,026,783; May 21; Sp. p. 3728; Gaz. vol. 178; p. 646.
Black, Walter, Mendota, Ill. Resilient wheel. No. 1,030,227; June 18; Sp. p. 4693; Gaz. vol. 179; p. 807.
Black, William H., Broken Arrow, Okla. Well-bucket. No. 1,015,935; Jan. 30; Sp. p. 6251; Gaz. vol. 174; p. 1089.
Blackburn, Frank R. (See Holdsworth and Blackburn.)
Blackburn, James M., Baltimore, Md. Gas-governor. No. 1,025,505; May 7; Sp. p. 890; Gaz. vol. 178; p. 139.
Blackburn, Jasper, Kirkwood, Mo. Earth-anchor. No. 1,041,233; Oct. 15; Gaz. vol. 183; p. 592.
Blackburn, Richard H., Jersey City, N. J. Self-locking mast-step and foot-block. No. 1,020,793; Mar. 19; Sp. p. 3806; Gaz. vol. 176; p. 667.
Blackburn, Thomas B., Los Angeles, Cal. Dump-car. No. 1,032,872; July 16; Gaz. vol. 180; p. 781.
Blackey, John A., Melrose, Mass., assignor of one-half to F. W. Scriggins, Bristol, N. H. Rat-trap. No. 1,046,951; Dec. 10; Gaz. vol. 185; p. 440.
Blackford, Atwell J., assignor of one-half to W. R. Jeavons, Cleveland, Ohio, and one-half to American Stove Company, St. Louis, Mo. Oil-burner. No. 1,047,884; Dec. 17; Gaz. vol. 185; p. 797.
Blackford, Godwin L., *et al.* (See Upshaw, Lucius L., assignor.)
Blackford, James, Salt Lake City, Utah. Spoke-clamp. No. 1,034,398; July 30; Gaz. vol. 180; p. 1365.
Blackham, Charles C., Bridgeport, Conn. Telephone. No. 1,022,350; Apr. 2; Sp. p. 1247; Gaz. vol. 177; p. 200.
Blackiston, George P., Pittsburgh, Pa. Vise. No. 1,048,643; Dec. 31; Gaz. vol. 185; p. 1119.
Blackman, Albert E., Mount Vernon, N. Y. Electrical distributing-cabinet. No. 1,036,177; Aug. 20; Gaz. vol. 181; p. 671.
Blackman, Philo M., and W. Marshall, Elgin, Ill. Filling apparatus for liquid-receptacles. No. 1,026,145; May 14; Sp. p. 2329; Gaz. vol. 178; p. 393.
Blackmer, Ernest E., and E. W. Johnson, Monongahela, Pa. Fan. No. 1,030,561; June 25; Sp. p. 5516; Gaz. vol. 179; p. 965.
Blackmore, Lawrence R., McKeesport, Pa. Pipe-cutting machine. No. 1,042,998; Oct. 29; Gaz. vol. 183; p. 1257.
Blackmore, William, assignor to The National Malleable Castings Company, Cleveland, Ohio. Coupling and yoke. No. 1,022,652; Apr. 9; Sp. p. 1905; Gaz. vol. 177; p. 332.
Blacknall, Cecil A., New York, N. Y. Cigar-cutter. No. 1,045,503; Nov. 26; Gaz. vol. 184; p. 946.
Blackstone Stocking Company. (See Gagné and Shaw, assignors.)
Blackwell, Harry. (See Danberry, Edward, assignor.)
Blackwell, James H., Rochelle, Tex. Combined level and try-square. No. 1,015,536; Jan. 23; Sp. p. 5394; Gaz. vol. 174; p. 924.
Blackwell, Wielandy Book & Stationery Company. (See Watson, Richard M., assignor.)
Blackwell, William L., and E. J. De Ville, assignors to The Cooper Heater Company, Dayton, Ohio. Water-heater. No. 1,035,679; Aug. 13; Gaz. vol. 181; p. 462.
Blackwood, Alexander F. S., Detroit, Mich. Converter. No. 1,042,876; Oct. 29; Gaz. vol. 183; p. 1216.
Blackwood, Don P., Denver, Colo. Tobacco-pipe and cigar and cigarette holder. No. 1,015,723; Jan. 23; Sp. p. 5803; Gaz. vol. 174; p. 989.
Blackwood, George, Inverness, Nova Scotia, Canada. Spike. No. 1,032,985; July 16; Gaz. vol. 180; p. 818.
Bladen, Walter C., Newark, N. J., assignor to A. C. Horn, New York, N. Y. Composition for waterproofing concrete. No. 1,021,569; Mar. 26; Sp. p. 5468; Gaz. vol. 176; p. 983.
Blades, Paul H. (See Ensign, Orville H., assignor.)
Blaeker, Joseph, New York, N. Y. Turbine. No. 1,025,241; May 7; Sp. p. 290; Gaz. vol. 178; p. 48.
Blaettnar, John. (See Blaettnar, Michael and J.)
Blaettnar, Michael and J., Pomeroy, Ohio. Car-coupling. No. 1,028,531; June 4; Sp. p. 1025; Gaz. vol. 179; p. 156.
Blagburn, Charles, Antioch, Cal., assignor to himself, trustee. Obtaining substantially pure nitrogen from the air. No. 1,036,788; Aug. 27; Gaz. vol. 181; p. 912.
Blahos, George J., U. S. Navy. Base-ball bat. No. 1,018,866; Feb. 27; Sp. p. 5849; Gaz. vol. 175; p. 1009.
Blaine, Joseph R. S., assignor to The Berlin Machine Works, Beloit, Wis. Spiral indicator. No. 1,033,866; July 30; Gaz. vol. 180; p. 1177.
Blaine, William S., Torreon, Mexico, assignor to Intercontinental Rubber Company, New York, N. Y. Apparatus for separating particles of rubber from materials with which they are commingled. No. 1,032,732; July 16; Gaz. vol. 180; p. 735.
Blaine, William S., Torreon, Mexico, assignor to Intercontinental Rubber Company, New York, N. Y. Separating particles of rubber from materials with which they are commingled. No. 1,032,733; July 16; Gaz. vol. 180; p. 736.
Blair, Albert. (See Fassett, Francis K., assignor.)
Blair, Albert, Geneseo, Ill. Churn. No. 1,033,375; July 23; Gaz. vol. 180; p. 990.
Blair, Athol E. and J. W., Visalia, Cal. Vehicle-support. No. 1,042,877; Oct. 29; Gaz. vol. 183; p. 1216.
Blair, Edward J., Chicago, Ill. Support for third rails. No. 1,028,668; June 4; Sp. p. 1303; Gaz. vol. 179; p. 200.
Blair, John W. (See Blair, Athol E. and J. W.)
Blair, Oliver C., Cleveland, Ohio. Internal-combustion engine. No. 1,018,093; Feb. 20; Sp. p. 4150; Gaz. vol. 175; p. 714.
Blair, Oliver C., Houston, Tex. Drafting appliance. No. 1,020,253; Mar. 12; Sp. p. 2656; Gaz. vol. 176; p. 450.
Blair, Robert F., assignor to H. S. and J. G. Lohr, Ligonier, Pa. Combination step-ladder. No. 1,035,770; Aug. 13; Gaz. vol. 181; p. 492.
Blair, Robert S., South Orange, N. J. Evaporation-controlling apparatus. No. 1,026,846; May 21; Sp. p. 3862; Gaz. vol. 178; p. 667.
Blair, Robert S., New York, N. Y. Automatic regulator. No. 1,043,751; Nov. 5; Gaz. vol. 184; p. 248.
Blair, Robert S., New Rochelle, assignor to International Time Recording Company of New York, Endicott, N. Y. Workman's time-recorder. No. 1,040,859; Oct. 8; Gaz. vol. 183; p. 432.
Blair, Thomas P., *et al.* (See Frey, Sigmund, assignor.)
Blair, Thomas P. (See Toms and Blair.)
Blair, William E., assignor to Buffalo Gasolene Motor Company, Buffalo, N. Y. Valve-stem housing. No. 1,037,856; Sept. 10; Gaz. vol. 182; p. 259.
Blair, William E., assignor to Buffalo Gasolene Motor Company, Buffalo, N. Y. Starting device for explosion-engines. No. 1,044,479; Nov. 19; Gaz. vol. 184; p. 560.
Blair, William R., assignor to Landis Machine Company, St. Louis, Mo. Thread take-up for sewing-machines. (Reissue.) No. 13,381; Mar. 12; Sp. p. 2922; Gaz. vol. 176; p. 494.
Blair, William R., St. Louis, Mo., assignor to Landis Machine Company. Thread-lock. No. 1,048,441; Dec. 24; Gaz. vol. 185; p. 1011.
Blair, William R., assignor to Landis Machine Company, St. Louis, Mo. Thread-take-up mechanism for sewing-machines. No. 1,048,442; Dec. 24; Gaz. vol. 185; p. 1011.
Blaisdell, Frederick E., Philadelphia, Pa. Tire. No. 1,017,732; Feb. 20; Sp. p. 3268; Gaz. vol. 175; p. 586.
Blaisdell, Frederick E., Hammersmith, England. Elastic tire for the wheels of vehicles. No. 1,035,851; Aug. 20; Gaz. vol. 181; p. 558.
Blaisdell, James L., *et al.* (See Blake, Albert E., assignor.)
Blaisdell, Philo C., New York, N. Y. Coal-pocket. No. 1,021,757; Apr. 2; Sp. p. 5; Gaz. vol. 177; p. 3.

Alphabetical list of patentees—Continued.

Blake, Albert E., assignor of one-third to J. L. Blaisdell and one-third to F. H. Blake, Rochester, N. H. Sash-lock. No. 1,026,489; May 14; Sp. p. 3083; Gaz. vol. 178; p. 508.
Blake, Charles C., Brookline, Mass. Wiring-tack. No. 1,017,036; Feb. 13; Sp. p. 1787; Gaz. vol. 175; p. 311.
Blake, Charles C., Brookline, assignor to Blake Signal and Manufacturing Co., Boston, Mass. Electric signal. No. 1,039,247; Sept. 24; Gaz. vol. 182; p. 788.
Blake, David H., San Antonio, assignor of forty-eight one-hundredths to J. W. Happle, Sanderson, R. E. Johnson, L. Merriman, Pecos, Tex., and C. H. Merriman, New York, N. Y. Propeller. No. 1,033,662; July 23; Gaz. vol. 180; p. 1083.
Blake, Edgar W., *et al.* (See Chandler, Daniel L., assignor.)
Blake, Edmund E., Saco, and W. H. Goldsmith, Jr., Biddeford, Me., assignors to Saco-Pettee Company, Newton, Mass. Belt-shifter. No. 1,029,338; June 11; Sp. p. 2764; Gaz. vol. 179; p. 466.
Blake, Frank H., *et al.* (See Blake, Albert E., assignor.)
Blake, Fred J., Stevens Point, Wis. Derrick. No. 1,031,037; July 2; Gaz. vol. 180; p. 66.
Blake, George H., Alameda, assignor to W. A. Plummer Manufacturing Company, San Francisco, Cal. Detachable mud-guard and dress-protector for motor-cycles. No. 1,027,806; May 28; Sp. p. 5930; Gaz. vol. 178; p. 1030.
Blake, Henry W., Ball Ground, Ga. Car-truck. No. 1,038,481; Sept. 10; Gaz. vol. 182; p. 473.
Blake, John H., Portland, Oreg., assignor of one-half to L. P. Davidson, Ione, Oreg. Tire-tool. No. 1,031,233; July 2; Gaz. vol. 180; p. 136.
Blake, John S., Charlotte, N. C. Car-step. No. 1,020,254; Mar. 12; Sp. p. 2656; Gaz. vol. 176; p. 451.
Blake & Johnson Company, The. (See Adams, Arthur H., assignor.)
Blake and Johnson Company, The. (See Duston, Ernest W., assignor.)
Blake, Kirk, Laporte, Ind. Case-hardening steel. No. 1,034,962; Aug. 6; Gaz. vol. 181; p. 188.
Blake & Knowles Steam Pump Works, The. (See Aborn, George P., assignor.)
Blake, Robert S., Chicago, Ill., assignor to Benjamin Electric Manufacturing Company. Tapping attachment. No. 1,021,179; Mar. 26; Sp. p. 4615; Gaz. vol. 176; p. 847.
Blake, Roy, and C. W. College, Hopewell, Pa. Can-opener. No. 1,039,015; Sept. 17; Gaz. vol. 182; p. 691.
Blake Signal and Manufacturing Co. (See Blake, Charles C., assignor.)
Blake, William F., South Bend, Ind. Discharge-valve. No. 1,015,754; Jan. 23; Sp. p. 5867; Gaz. vol. 174; p. 1000.
Blakeley, Robert T., Bridgeport, assignor to H. Wright, trustee, New Haven, Conn. Combined stand, waxing device, and cleaner for flat-irons. No. 1,020,390; Mar. 12; Sp. p. 2914; Gaz. vol. 176; p. 494.
Blakeman, William N., Jr., New York, N. Y. Paint compound. No. 1,019,415; Mar. 5; Sp. p. 961; Gaz. vol. 176; p. 140.
Blakemore, Benjamin A., Staunton, Va. Lock-tie for mail and other purposes. No. 1,014,937; Jan. 16; Sp. p. 4128; Gaz. vol. 174; p. 695.
Blaker, William D., Indianapolis, Ind. Portable pencil-holder. No. 1,040,860; Oct. 8; Gaz. vol. 183; p. 432.
Blakeslee, Daniel R. (See Blakeslee, Henry W. and D. R.)
Blakeslee, George S. (See Nolan and Pierce, assignors.)
Blakeslee, George S., Chicago, Ill. Potato-peeling machine. No. 1,035,771; Aug. 13; Gaz. vol. 181; p. 493.
Blakeslee, George S., Chicago, Ill. Potato-peeling machine. No. 1,039,689; Oct. 1; Gaz. vol. 183; p. 5.
Blakeslee, Henry W., Nowata, Okla., and D. R. Blakeslee, Van Buren, assignors to Marion Machine Foundry & Supply Co., Marion, Ind. Eccentric ring. No. 1,013,367; Jan. 2; Sp. p. 608; Gaz. vol. 174; p. 97.
Blakeslee, Henry W. and D. R., Nowata, Okla., assignors to Marion Machine Foundry & Supply Company, Marion, Ind. Band-wheel for pumping-machines. No. 1,033,753; July 23; Gaz. vol. 180; p. 1111.
Blakeslee, John R., assignor to The Ajax Manufacturing Company, Cleveland, Ohio. Adjustable bearing. No. 1,047,490; Dec. 17; Gaz. vol. 185; p. 659.
Blakeslee, Oscar S., Lansing, Mich. Cloth-measuring machine. No. 1,024,764; Apr. 30; Sp. p. 6518; Gaz. vol. 177; p. 1148.
Blakeslee, Raymond I. (See Hill, Aaron, assignor.)
Blakesley, John H., London, England. Rolling-mill. No. 1,030,865; July 2; Gaz. vol. 180; p. 6.
Blanc, Jules, Paris, France. Purifying sulfurous-acid gas. No. 1,034,574; Aug. 6; Gaz. vol. 181; p. 58.
Blancard & Company. (See Mountford, Thomas, assignor.)
Blanchard, Arthur I., Islington, London, England. Vapor-burner. No. 1,029,264; June 11; Sp. p. 2583; Gaz. vol. 179; p. 439.
Blanchard, Daniel, Lowell, Mass. Tension device for shuttles. No. 1,026,298; May 14; Sp. p. 2659; Gaz. vol. 178; p. 445.
Blanchard, Frederick C., and E. B. Crocker, assignors to The Ashcroft Manufacturing Company, Bridgeport, Conn. Gas-regulator. No. 1,030,967; July 2; Gaz. vol. 180; p. 41.
Blanchard, Frederick C., E. B. Crocker, Bridgeport, Conn., and H. E. Eddy, New York, N. Y., assignors to The Ashcroft Manufacturing Company, Bridgeport, Conn. Paper-testing device. No. 1,048,488; Dec. 31; Gaz. vol. 185; p. 1065.
Blanchard, George L., Yoakum, Tex. Float for delinters. No. 1,015,724; Jan. 23; Sp. p. 5805; Gaz. vol. 174; p. 990.
Blanchard, Kirk S., Brooklyn, N. Y. Ventilator for water-closets. No. 1,025,364; May 7; Sp. p. 574; Gaz. vol. 178; p. 89.
Blanchard, Leon E., assignor to Reliance Speedometer Company, Boston, Mass. Speedometer. No. 1,021,036; Mar. 26; Sp. p. 4311; Gaz. vol. 176; p. 801.
Blanchard, Martin H., Davisville, Cal. Draft attachment. No. 1,015,260; Jan. 16; Sp. p. 4776; Gaz. vol. 174; p. 804.
Blanchard, William C., *et al.* (See Leonard, Marshal L., assignor.)
Blanchett, Frank, Massena, N. Y. Feed-hopper. No. 1,029,660; June 18; Sp. p. 3446; Gaz. vol. 179; p. 612.
Bland, John P., Clapham, England. Apparatus for preparing stereotype-matrices. No. 1,040,861; Oct. 8; Gaz. vol. 183; p. 432.
Bland, Samuel J., Uvalda, Ga. Supporting and ventilating device for hay-stacks. No. 1,025,778; May 7; Sp. p. 1467; Gaz. vol. 178; p. 232.
Blanding, Forrest H., Chicago, Ill., assignor to Allis-Chalmers Company, Milwaukee, Wis. Converter-twyer. No. 1,035,772; Aug. 13; Gaz. vol. 181; p. 493.
Blanding, Forrest H., Chicago, Ill., assignor to Allis-Chalmers Company, Milwaukee, Wis. Variable-throw eccentric. No. 1,046,375; Dec. 3; Gaz. vol. 185; p. 201.
Blandy, Graham F. (See Blandy, John B., assignor.)
Blandy, John B., Funchal, Madeira, assignor to G. F. Blandy, New York, N. Y. Insect-screen. No. 1,025,674; May 7; Sp. p. 1263; Gaz. vol. 178; p. 195.
Blaney, Charles W., assignor of one-half to C. Blaney, Philadelphia, Pa. Vehicle-tire. No. 1,036,065; Aug. 20; Gaz. vol. 181; p. 631.
Blaney, Clara. (See Blaney, Charles W., assignor.)
Blaney, William, assignor of one-half to B. G. Melvin, Marblehead, Mass. Billiard-cue. No. 1,022,173; Apr. 2; Sp. p. 893; Gaz. vol. 177; p. 142.
Blank, August, Leverkusen, near Cologne, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Azo dye. No. 1,023,120; Apr. 16; Sp. p. 2931; Gaz. vol. 177; p. 532.
Blank, George W., Wilkinsburg, Pa. Flag holding and stretching device. No. 1,020,396; Mar. 19; Sp. p. 2938; Gaz. vol. 176; p. 534.
Blank, Rudolph, assignor of one-eighth to M. Herskovitz, Butler, Pa. Music-leaf turner. No. 1,035,773; Aug. 13; Gaz. vol. 181; p. 493.
Blankenburg, Carl, Leipzig-Sellershausen, assignor to Company Hugo Schneider Aktiengesellschaft, Leipzig, Germany. Round vapor-burner for heating and lighting purposes. No. 1,015,988; Jan. 30; Sp. p. 6369; Gaz. vol. 174; p. 1108.
Blankenburg, Charles G., Nehawka, Nebr. Railway-tie. No. 1,033,298; July 23; Gaz. vol. 180; p. 965.
Blankenship, Edward O., Lakeside, Wash. Saw-set. No. 1,033,663; July 23; Gaz. vol. 180; p. 1084.
Blankfort, Herbert. (See Wolf, Lesser, assignor.)
Blasius, Oscar. (See Wuest, Philip, Jr., assignor.)
Blassneck, Amöne. (See Blassneck, Friedrich and A.)
Blassneck, Friedrich and A., Seesen, Germany. Preserving or cooking fruits or vegetables. No. 1,028,669; June 4; Sp. p. 1304; Gaz. vol. 179; p. 201.
Blatchley, Melbourne E., Garden City, Kans. Collar and cuff button. No. 1,047,156; Dec. 17; Gaz. vol. 185; p. 539.
Blattle, Herman I., assignor of two-thirds to P. Newman, Providence, R. I. Sad-iron shoe. No. 1,023,802; Apr. 23; Sp. p. 4315; Gaz. vol. 177; p. 781.
Blaustein, Joseph. (See Greenwald, Blaustein, Weiss, and Selkovits.)
Blauvelt, Albert, Chicago, Ill. Fire-door. No. 1,033,376; July 23; Gaz. vol. 180; p. 990.
Blauvelt, Erastus. (See Donat, Gustavo, assignor.)
Blaxter, George H., Beaver, Pa. Overload control for metal rolls. No. 1,040,863; Oct. 8; Gaz. vol. 183; p. 433.
Blaxter, George H., New Brighton, assignor to Pittsburgh Seamless Tube Company, Beaver Falls, Pa. Swaging-mill. (Reissue.) No. 13,377; Mar. 5; Sp. p. 1593; Gaz. vol. 176; p. 248.
Blaxter, George H., assignor to Pittsburg Seamless Tube Company, Beaver Falls, Pa. Automatic adjustment for reelers. No. 1,040,862; Oct. 8; Gaz. vol. 183; p. 433.
Blazek, Charles. (See Blazek, George J. and C.)
Blazek, George J. and C., Red Lake, S. D. Spring-wheel. No. 1,033,299; July 23; Gaz. vol. 180; p. 965.
Blechschmidt, Arthur F., assignor of one-half to A. J. Roth, Connersville, Ind. Poultry-house equipment. No. 1,029,844; June 18; Sp. p. 3884; Gaz. vol. 179; p. 677.

Alphabetical list of patentees—Continued.

Bleck, Paul. (See Hutchison, Orville T., assignor.)
Bleeck, Wilhelm A. F., Brisbane, Queensland, Australia. Primary battery. No. 1,021,859; Apr. 2; Sp. p. 235; Gaz. vol. 177; p. 38.
Bleecker, H. L. (See Willson, Russell A., assignor.)
Bleecker, Warren F., Boulder, Colo., assignor, by mesne assignments, to The Rare Metals Mining and Milling Company. Producing copper, lead, or iron vanadate from vanadiferous ores. No. 1,015,469; Jan. 23; Sp. p. 5265; Gaz. vol. 174; p. 902.
Bleicher, Abraham. (See Ackerman and Bleicher.)
Bleichert & Co., Adolf. (See Müller, Herman, assignor.)
Bleistein, George. (See Huebner, William C., assignor.)
Bleitz, Louis. (See Bleitz, Louis R. and L.)
Bleitz, Louis R. and L., Los Angeles, Cal. Speed-changing mechanism. No. 1,036,531; Aug. 20; Gaz. vol. 181; p. 795.
Blenio, Guido. (See Gerli and Blenio.)
Blenkner, Alfred P., and B. Z. Smith, Mountain Home, Idaho. Electric heater. No. 1,033,867; July 30; Gaz. vol. 180; p. 1177.
Blenz, Jacob, and J. R. Morgenstein, Decatur, Ill. Refrigerating apparatus. No. 1,046,727; Dec. 10; Gaz. vol. 185; p. 364.
Bleoo, John H. (See May and Bleoo.)
Blériot, Louis, Neuilly-sur-Seine, France. Aeroplane. No. 1,045,666; Nov. 26; Gaz. vol. 184; p. 1006.
Blevins, Charles W., *et al.* (See Stockford, Thomas E., assignor.)
Blevney, John C., Newark, N. J. Grinding and polishing machine. No. 1,043,194; Nov. 5; Gaz. vol. 184; p. 53.
Blewett, Baxter W., Denton, Tex. Aeroplane. No. 1,021,299; Mar. 26; Sp. p. 4866; Gaz. vol. 176; p. 889.
Bley, John M., Philadelphia, Pa. Adjustable miter-gage. No. 1,034,068; July 30; Gaz. vol. 180; p. 1250.
Blickensderfer, George C., Stamford, Conn. Speed-controlling mechanism for revolving doors. No. 1,014,997; Jan. 16; Sp. p. 4266; Gaz. vol. 174; p. 716.
Bliden, Jacob. (See Miller and Bliden.)
Bliden, Jacob. (See Miller, Bliden, and Smith.)
Bliesath, Ernst C. F. W., Seattle, Wash. Aeroplane. No. 1,017,733; Feb. 20; Sp. p. 3269; Gaz. vol. 175; p. 586.
Bliler, Christopher C. (See Bliler, Eli A. and C. C.)
Bliler, Eli A. and C. C., Livingston, Mont. Float-valve. No. 1,027,980; May 28; Sp. p. 6348; Gaz. vol. 178; p. 1089.
Bliss, Alfred M., assignor to Sanitary Drinking Cup Company, Chicago, Ill. Making sanitary drinking-cups. No. 1,046,050; Dec. 3; Gaz. vol. 185; p. 86.
Bliss, Donald M., Stamford, Conn., assignor of one-half to C. J. Henschel, New York, N. Y. Device for determining direction. No. 1,047,157; Dec. 17; Gaz. vol. 185; p. 539.
Bliss, Edward W., Rochester, N. Y. Steering mechanism for vehicles. No. 1,026,146; May 14; Sp. p. 2331; Gaz. vol. 178; p. 394.
Bliss, Elmer J., Edgartown, Mass. Order-guide. No. 1,024,716; Apr. 30; Sp. p. 6418; Gaz. vol. 177; p. 1130.
Bliss, Elmer J., Edgartown, and E. F. White, Quincy, Mass., assignors to Regal Shoe Company. Sectional last for making shoes. No. 1,018,959; Feb. 27; Sp. p. 6038; Gaz. vol. 175; p. 1041.
Bliss, Harry L., Reynoldsville, Pa. Siphon. No. 1,025,608; May 7; Sp. p. 1116; Gaz. vol. 178; p. 174.
Bliss, Henry H. (See Finigan, Benjamin P., assignor.)
Bliss, Henry H., trustee. (See Balkema, Charles E., assignor.)
Bliss, Walter B., Los Angeles, Cal. Buckle. No. 1,034,681; Aug. 6; Gaz. vol. 181; p. 92.
Bliss, William L., Brooklyn, N. Y. Incandescent electric lighting. No. 1,022,057; Apr. 2; Sp. p. 651; Gaz. vol. 177; p. 103.
Bliss, William L., Brooklyn, N. Y. Electrical apparatus. No. 1,022,058; Apr. 2; Sp. p. 652; Gaz. vol. 177; p. 104.
Bliss, William L., assignor, by mesne assignments, to The United States Light and Heating Company, New York, N. Y. Driving mechanism for axle-driven dynamos. No. 1,013,925; Jan. 9; Sp. p. 1874; Gaz. vol. 174; p. 319.
Bliss, William L., assignor, by mesne assignments, to The United States Light and Heating Company, New York, N. Y. System of electrical distribution. No. 1,040,496; Oct. 8; Gaz. vol. 183; p. 307.
Bliss, William L., Milwaukee, Wis., assignor to The United States Light & Heating Company, New York, N. Y. Driving mechanism for generators. No. 1,025,506; May 7; Sp. p. 892; Gaz. vol. 178; p. 139.
Bliss, William L., Milwaukee, Wis., assignor to The United States Light & Heating Company, New York, N. Y. Junction-box. No. 1,039,248; Sept. 24; Gaz. vol. 182; p. 789.
Bliss, William L., Brooklyn, assignor, by mesne assignments, to The United States Light and Heating Company, New York, N. Y. Automatic electric regulator. No. 1,025,559; May 7; Sp. p. 1019; Gaz. vol. 178; p. 157.
Bliss, William L., Brooklyn, assignor, by mesne assignments, to The United States Light and Heating Company, New York, N. Y. Spring. No. 1,047,491; Dec. 17; Gaz. vol. 185; p. 659.
Blitz, Adolf, assignor of one-half to H. Blitz, Chicago, Ill. Clothing-merchant's display-cabinet. No. 1,046,142; Dec. 3; Gaz. vol. 185; p. 119.
Blitz, Herman. (See Blitz, Adolf, assignor.)
Bloch, Joseph. (See Marcus, Herman, assignor.)
Bloch-Pimentel, Emile, Paris, France. Purification of caustic-alkali solutions. No. 1,044,434; Nov. 12; Gaz. vol. 184; p. 514.
Bloch, Sigbert. (See Weisse, Paul, assignor.)
Block, Alexander E., assignor to A. Kern, St. Louis, Mo. Arch-support. No. 1,043,058; Nov. 5; Gaz. vol. 184; p. 3.
Block, Carl, Plato, Minn. Hauling-sled. No. 1,029,661; June 18; Sp. p. 3448; Gaz. vol. 179; p. 612.
Block, Emanuel. (See Strale, Allan N. H., assignor.)
Block, Harald E. F. R., Copenhagen, Denmark. Vehicle-brake. No. 1,013,473; Jan. 2; Sp. p. 839; Gaz. vol. 174; p. 134.
Block, Leah E. (See Block, Louis, assignor.)
Block, Louis, assignor to L. E. Block, New York N. Y. Sanitary attachment for mouthpieces. No. 1,016,063; Jan. 30; Sp. p. 6536; Gaz. vol. 174; p. 1136.
Block, Louis, assignor to L. E. Block, New York, N. Y. Earpiece-disinfector. No. 1,027,174; May 21; Sp. p. 4637; Gaz. vol. 178; p. 779.
Block, Samuel. (See Creighton and Block.)
Blocki, Frank A. (See Blocki, Franz and F. A.)
Blocki, Franz and F. A., Sheboygan, Wis. Windrower. No. 1,037,418; Sept. 3; Gaz. vol. 182; p. 81.
Blocklinger, B. F., trustee. (See Appelman, Erastus W., assignor.)
Blodgett, Charles L. (See Whipple, Arden, assignor.)
Blodgett, Chester A., assignor of one-half to F. W. Jeffries, Hicksville, Ohio. Printing-machine. No. 1,031,906; July 9; Gaz. vol. 180; p. 409.
Blodgett, Frederick E., assignor to Young Manufacturing Company, Newark, N. J. Safety-razor. No. 1,017,199; Feb. 13; Sp. p. 2160; Gaz. vol. 175; p. 360.
Blodgett, Samuel, Oakdale, Cal. Tug and shaft attachment. No. 1,022,529; Apr. 9; Sp. p. 1637; Gaz. vol. 177; p. 291.
Blodgett, Samuel, Clements, Cal. Wheel attachment for drag-scrapers. No. 1,045,367; Nov. 26; Gaz. vol. 184; p. 898.
Blogg, Max and S., Hamburg, Germany. Device for opening paper bags. No. 1,045,116; Nov. 26; Gaz. vol. 184; p. 811.
Blogg, Siegfried. (See Blogg, Max and S.)
Blom, John H. (See McRae and Blom.)
Blom, Pehr M., Abo, Russia, assignor of two-thirds to J. Bruun and one-third to F. Sparks, Toledo, Ohio. Carbureter. No. 1,013,983; Jan. 9; Sp. p. 2001; Gaz. vol. 174; p. 339.
Blomberg, Peter A., Jesse Lake, Minn. Rotary harrow. No. 1,045,250; Nov. 26; Gaz. vol. 184; p. 858.
Blome Company, Rudolph S. (See Blome and Sinek, assignors.)
Blome, Rudolph S., and W. J. Sinek, assignors to R. S. Blome Company, Chicago, Ill. Pavement. No. 1,029,575; June 11; Sp. p. 3255; Gaz. vol. 179; p. 546.
Blomfeldt, Allen A., Chicago, Ill. Air-conditioning device. No. 1,013,368; Jan. 2; Sp. p. 609; Gaz. vol. 174; p. 97.
Blomgren, Nels J. (See Brown, Theodore H., assignor.)
Blomstrom, Carl H., Adrian, Mich., assignor to Royal Equipment Company, Bridgeport, Conn. Vehicle-brake. No. 1,047,609; Dec. 17; Gaz. vol. 185; p. 702.
Blomstrom, Charles, Minneapolis, Minn. Centering-tool. No. 1,028,855; June 11; Sp. p. 1699; Gaz. vol. 179; p. 297.
Blondel, André, Paris, France, assignor, by mesne assignments, to General Electric Company. Interior electric-lighting system. No. 1,019,730; Mar. 5; Sp. p. 1565; Gaz. vol. 176; p. 243.
Blondel, André, and G. Dobkevitch, Paris, France, assignors, by mesne assignments, to General Electric Company. Electric-arc lamp. No. 1,019,731; Mar. 5; Sp. p. 1567; Gaz. vol. 176; p. 244.
Blondel, André, and G. Dobkevitch, Paris, France, assignors, by mesne assignments, to General Electric Company. Electric-arc lamp. No. 1,019,744; Mar. 5; Sp. p. 1590; Gaz. vol. 176; p. 247.
Blondell-Lane Concrete Bar Company. (See Blondell and Allard, assignors.)
Blondell, Peter, and J. E. Allard, assignors to Blondell-Lane Concrete Bar Company, Buffalo, N. Y. Whiffle and double tree. No. 1,020,183; Mar. 12; Sp. p. 2508; Gaz. vol. 176; p. 427.
Blondin, Joseph A., Los Angeles, Cal. Flying-machine. No. 1,036,178; Aug. 20; Gaz. vol. 181; p. 672.
Blood, Charles W. H., Winthrop, assignor to S. A. Woods Machine Company, Boston, Mass. Automatic feeding-table. No. 1,041,234; Oct. 15; Gaz. vol. 183; p. 593.
Blood, Clarence C., Kalamazoo, Mich. Floating-reamer support. No. 1,027,520; May 28; Sp. p. 5340; Gaz. vol. 178; p. 935.
Blood, Clarence C., H. E., and M. E., Kalamazoo, Mich. Universal joint. No. 1,044,734; Nov. 19; Gaz. vol. 184; p. 649.
Blood, Everett L., Mulberry, Fla. Pipe-coupling. No. 1,045,667; Nov. 26; Gaz. vol. 184; p. 1006.

Alphabetical list of patentees—Continued.

Blood, Howard E. (See Blood, Clarence C., H. E., and M. E.)
Blood, Maurice E. (See Blood, Clarence C., H. E., and M. E.)
Bloom, David, Berkeley, Cal. Receptacle-closure. No. 1,027,685; May 28; Sp. p. 5685; Gaz. vol. 178; p. 990.
Bloom, David, Berkeley, Cal. Sheet-metal can. No. 1,030,455; June 25; Sp. p. 5220; Gaz. vol. 179; p. 929.
Bloom, Edgar J., Tiffin, Ohio. Packing. No. 1,038,834; Sept. 17; Gaz. vol. 182; p. 631.
Bloom, Edgar J., Tiffin, Ohio. Flush-valve. No. 1,046,548; Dec. 10; Gaz. vol. 185; p. 300.
Bloom, Moses E., New York, N. Y. Elevator. No. 1,026,650; May 21; Sp. p. 3439; Gaz. vol. 178; p. 600.
Bloom, Percy. (See Sellheim, Henry, assignor.)
Bloomfield, William J., Antioch, Cal. Bean-cleaner. No. 1,039,249; Sept. 24; Gaz. vol. 182; p. 789.
Bloomingdale, Harry, *et al.* (See Ehinger, Frank, assignor.)
Blos, Ernst, Schöneberg, near Berlin, Germany. Automatic telephone system. No. 1,046,952; Dec. 10; Gaz. vol. 185; p. 440.
Blosser, J. W. (See Rives, James D., assignor.)
Blossfield, William D. (See De Fazi, Fulvio, assignor.)
Blossom, Charles C., Wickford, R. I. Nut-lock. (Reissue.) No. 13,425; June 11; Sp. p. 3265; Gaz. vol. 179; p. 548.
Blouin, August F., Springfield township, Delaware county, assignor to Abrasive Material Company, Philadelphia, Pa. Composition of abrasive matter. No. 1,042,878; Oct. 29; Gaz. vol. 183; p. 1217.
Blount, Albert H., Detroit, Mich. Flying-machine. No. 1,024,670; Apr. 30; Sp. p. 6320; Gaz. vol. 177; p. 1114.
Blount, Irving, New York, N. Y. Separator. No. 1,016,241; Jan. 30; Sp. p. 6876; Gaz. vol. 174; p. 1194.
Blount, Nelson, New York, N. Y. Miner's lamp. No. 1,026,622; May 14; Sp. p. 3355; Gaz. vol. 178; p. 553.
Blowers, Wilber O. (See Baker, Blowers, and Bines.)
Blue, Charles E., Wheeling, W. Va. Apparatus for charging glass-molds. No. 1,015,537; Jan. 23; Sp. p. 5395; Gaz. vol. 174; p. 924.
Blue, Charles E., Wheeling, W. Va. Manufacture of glass. No. 1,015,538; Jan. 23; Sp. p. 5396; Gaz. vol. 174; p. 925.
Blue, Charles E., Wheeling, W. Va. Machine for gathering glass. No. 1,047,731; Dec. 17; Gaz. vol. 185; p. 744.
Blue Island Specialty Co. (See Federspiel, Matthew N., assignor.)
Bluemel, Charles W., F. H., and E. A., Wolston, near Coventry, England. Manufacturing hand-wheels. No. 1,031,515; July 2; Gaz. vol. 180; p. 232.
Bluemel, Ernest A. (See Bluemel, Charles W., F. H., and E. A.)
Bluemel, Frank H. (See Bluemel, Charles W., F. H., and E. A.)
Bluhm, Charles A., Michigan City, Ind. Trolley. No. 1,020,794; Mar. 19; Sp. p. 3808; Gaz. vol. 176; p. 667.
Blum, August C., South Amboy, N. J. Stamping device. No. 1,013,116; Jan. 2; Sp. p. 49; Gaz. vol. 174; p. 10.
Blum, Charles, New York, N. Y. Safety-chair for window-cleaners. No. 1,028,319; June 4; Sp. p. 557; Gaz. vol. 179; p. 82.
Blum, Edward W., Cincinnati, Ohio. Driving mechanism for laundry washing-machines. No. 1,043,195; Nov. 5; Gaz. vol. 184; p. 53.
Blum, Edward W., assignor to The Bradford Machine Tool Company, Cincinnati, Ohio. Gearing. No. 1,028,095; June 4; Sp. p. 4; Gaz. vol. 179; p. 3.
Blum, George J., assignor to Armstrong-Blum Manufacturing Company, Chicago, Ill. Hacksaw. No. 1,032,650; July 16; Gaz. vol. 180; p. 705.
Blume, Frank, Chicago, Ill. Article of jewelry. No. 1,025,447; May 7; Sp. p. 762; Gaz. vol. 178; p. 118.
Blume, Max E., Leipzig-Connewitz, Germany. Sheet-feed apparatus for typographic stamping-machines. No. 1,016,125; Jan. 30; Sp. p. 6655; Gaz. vol. 174; p. 1157.
Blume, Max E., Leipzig-Connewitz, Germany. Apparatus for producing typographic record-sheets. No. 1,016,201; Jan. 30; Sp. p. 6791; Gaz. vol. 174; p. 1180.
Blume, Max E., Leipzig-Connewitz, Germany. Typographic stamping apparatus. No. 1,018,233; Feb. 20; Sp. p. 4438; Gaz. vol. 175; p. 762.
Blume, Wilhelm, Rathenow, Germany. Eyeglasses. No. 1,014,938; Jan. 16; Sp. p. 4130; Gaz. vol. 174; p. 696.
Blumenberg, Marc A. (See Smith and Blumenberg.)
Blumenstein, Franz, London, England. Regenerative gas-burner. No. 1,038,274; Sept. 10; Gaz. vol. 182; p. 401.
Blumer, Emil, St. Jacob, Ill. Silo-mold. No. 1,039,085; Sept. 24; Gaz. vol. 182; p. 729.
Blunkall, Amanda M., Oakland, Cal. Comb. No. 1,035,411; Aug. 13; Gaz. vol. 181; p. 373.
Bly, Albert B., Des Moines, Iowa. Calculating apparatus. No. 1,032,322; July 9; Gaz. vol. 180; p. 550.
Bly, Edwin, Kenyon, Minn. Gate. No. 1,017,499; Feb. 13; Sp. p. 2802; Gaz. vol. 175; p. 473.
Blyler, L. F. (See Lucas, John T., assignor.)
Blystone Manufacturing Company. (See Blystone, Perry L., assignor.)
Blystone, Perry L., assignor to Blystone Manufacturing Company, Cambridge Springs, Pa. Mortar-mixer. No. 1,030,250; June 18; Sp. p. 4736; Gaz. vol. 179; p. 815.
Blythe, Thomas L., Banks, Ark. Chimney-holder. No. 1,044,857; Nov. 19; Gaz. vol. 184; p. 692.
Boa, Wilmur W., and K. Schoenbauer, Grand Rapids, Mich. Starting device for explosion-engines. No. 1,035,150; Aug. 13; Gaz. vol. 181; p. 279.
Boardman, George P., Syracuse, N. Y. Pen and pencil holder. No. 1,029,415; June 11; Sp. p. 2941; Gaz. vol. 179; p. 492.
Boardman, John R., assignor to Wylie Manufacturing Company, Oklahoma, Okla. Concrete-mixer. No. 1,043,391; Nov. 5; Gaz. vol. 184; p. 123.
Boardman, Ralph H., New Britain, Conn. Piano-playing device. No. 1,041,004; Oct. 15; Gaz. vol. 183; p. 516.
Boast, William F., and W. B. Conrad, Sterling, Colo. Motor-cycle handle. No. 1,030,866; July 2; Gaz. vol. 180; p. 6.
Boberg, Amos, Cambridge, Ill. Wagon-jack. No. 1,017,500; Feb. 13; Sp. p. 2804; Gaz. vol. 175; p. 473.
Boccardo, Giovanni, Genoa, Italy. Apparatus for measuring the velocity and direction of the marine under-currents. No. 1,022,385; Apr. 2; Sp. p. 1312; Gaz. vol. 177; p. 213.
Boccia, Carmine. (See Colounese and Boccia.)
Boccia, Carmine, New York, N. Y. Combined comb and brush. No. 1,017,501; Feb. 13; Sp. p. 2805; Gaz. vol. 175; p. 474.
Boche, Otto W., Meriden, Conn. Flying-machine. No. 1,014,802; Jan. 16; Sp. p. 3812; Gaz. vol. 174; p. 648.
Boche, Otto W., Meriden, Conn. Nurling-tool. No. 1,044,006; Nov. 12; Gaz. vol. 184; p. 369.
Bock, Alfred C. O., assignor to Donnellan-Bock Manufacturing Company, Brooklyn, N. Y. Coin counting and wrapping machine. No. 1,024,057; Apr. 23; Sp. p. 4899; Gaz. vol. 177; p. 868.
Bock, Charles de, Lele, Belgium. Sucking-bottle. No. 1,023,803; Apr. 23; Sp. p. 4317; Gaz. vol. 177; p. 782.
Bock, George R., Port Washington, assignor of one-half to H. Schreier and A. P. Steffen, Sheboygan, Wis. Signal device for drawbridges, &c. No. 1,027,100; May 21; Sp. p. 4487; Gaz. vol. 178; p. 756.
Bock, Victor. (See Bock, Walter H., assignor.)
Bock, Walter H., assignor of one-half to V. Bock, New York, N. Y. Non-refillable bottle. No. 1,047,732; Dec. 17; Gaz. vol. 185; p. 745.
Bock, William E., Toledo, Ohio. Starter for explosive-engines. No. 1,043,392; Nov. 5; Gaz. vol. 184; p. 124.
Bock, William E., Toledo, Ohio. Starter for explosive-engines. No. 1,043,393; Nov. 5; Gaz. vol. 184; p. 124.
Bocorselski, Frank E. (See Lassiter and Bocorselski.)
Bocorselski, Frank E., Springfield, Mass. Universal joint. No. 1,020,476; Mar. 19; Sp. p. 3107; Gaz. vol. 176; p. 560.
Bocorselski, Frank E., Richmond, Va. Tap and reamer. No. 1,040,610; Oct. 8; Gaz. vol. 183; p. 349.
Boczkowski, Charles. (See Krzewinski, Mikolaj, assignor.)
Bodde, Theodore, Northfield, Vt. Steam-turbine. No. 1,033,868; July 30; Gaz. vol. 180; p. 1178.
Boddy, George M. (See Carroll, William, assignor.)
Boden, Clarence S., San Francisco, Cal. Hammer. No. 1,024,390; Apr. 23; Sp. p. 5593; Gaz. vol. 177; p. 981.
Boden, George B. von, San Francisco, Cal. Conduit-joint. No. 1,042,852; Oct. 29; Gaz. vol. 183; p. 1207.
Boden, George B. von, and E. F. Ingles, San Francisco, Cal. Oil-burner. No. 1,014,924; Jan. 16; Sp. p. 4106; Gaz. vol. 174; p. 691.
Bodey, John F. (See Ruschel and Bodey.)
Bodie, Charles H. (See Thomas and Bodie.)
Bodie, Josiah W., Greenwood, S. C. Railway-switch. No. 1,019,941; Mar. 12; Sp. p. 2002; Gaz. vol. 176; p. 345.
Bodie, Josiah W., Greenwood, S. C. Push-bar. No. 1,030,639; June 25; Sp. p. 5808; Gaz. vol. 179; p. 995.
Bodilly, John W., Oshkosh, Wis. Horseshoe-calk. No. 1,033,080; July 23; Gaz. vol. 180; p. 888.
Bodine, Carl D. (See Bodine, Paul J. and C. D.)
Bodine, Paul J. and C. D., Chicago, Ill. Speed-responsive switch. No. 1,046,953; Dec. 10; Gaz. vol. 185; p. 440.
Bodkin, John A., New York, N. Y. Rail-anchor. No. 1,015,129; Jan. 16; Sp. p. 4517; Gaz. vol. 174; p. 761.
Bodkin, John A., New York, N. Y. Insulated rail-joint. No. 1,037,197; Sept. 3; Gaz. vol. 182; p. 7.
Bodkin, John A., New York, N. Y. Guard-rail clamp. No. 1,040,611; Oct. 8; Gaz. vol. 183; p. 349.
Bodle, Isaac F., South Eaton, assignor to S. E. L. Bodle, Jermyn, Pa. Tellurian. No. 1,019,750; Mar. 12; Sp. p. 1611; Gaz. vol. 176; p. 282.
Bodle, S. Esther L. (See Bodle, Isaac F., assignor.)
Bodmer, Christian. (See Schade and Bodmer.)
Bodmer, Christian, assignor to The Stanley Rule & Level Company, New Britain, Conn. Plane. No. 1,026,636; May 14; Sp. p. 3384; Gaz. vol. 178; p. 558.
Bodwin, John J., McKeesport, Pa. Fluid-pressure regulator. No. 1,039,639; Sept. 24; Gaz. vol. 182; p. 924.
Boe, Hans M., Hampden, N. D. Threshing-machine. No. 1,017,129; Feb. 13; Sp. p. 2003; Gaz. vol. 175; p. 344.
Boeck, Charles G., assignor to Novelty Manufacturing Company, Jackson, Mich. Automobile-radiator. No. 1,036,549; Aug. 27; Gaz. vol. 181; p. 833.
Boeck, Charles G., assignor to Novelty Manufacturing Co., Jackson, Mich. Automobile-muffler. No. 1,044,007; Nov. 12; Gaz. vol. 184; p. 369.

Alphabetical list of patentees—Continued.

Boeckel, Robert C., York, Pa. Candy-holding tray. No. 1,023,714; Apr. 16; Sp. p. 4127; Gaz. vol. 177; p. 724.
Boedtcher, Franz A., Bergenfeld, N. J. Elevator-indicator. No. 1,037,113; Aug. 27; Gaz. vol. 181; p. 1022.
Boegen, John E., Berwyn, assignor of one-half to B. L. Zeller, Chicago, Ill. Machine for venting and wiring cores. No. 1,015,610; Jan. 23; Sp. p. 5556; Gaz. vol. 174; p. 952.
Boehck, William E., assignor to New York Revolving Portable Elevator Company, Jersey City, N. J. Manually-operated winding-drum mechanism. No. 1,044,008; Nov. 12; Gaz. vol. 184; p. 370.
Boehm, Joseph C., Chicago, Ill. Derrick. No. 1,043,394; Nov. 5; Gaz. vol. 184; p. 125.
Boehm, Oscar, New York, assignor to A. J. Kelly, Mount Vernon, N. Y. Bottle or receptacle. No. 1,035,522; Aug. 13; Gaz. vol. 181; p. 410.
Boehning, Henry. (See Riehemann and Boehning.)
Boehringer & Soehne, C. F. (See Ach, Lorenz, assignor.)
Boekel, Julius, Philadelphia, Pa. Thermostatic draft-regulator for incubators or other purposes. No. 1,016,126; Jan. 30; Sp. p. 6657; Gaz. vol. 174; p. 1157.
Boelzner, Ernst, Elmira, N. Y. Steam-boiler. No. 1,015,936; Jan. 30; Sp. p. 6252; Gaz. vol. 174; p. 1089.
Boening, Ernest, Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Friction rope-drive elevator. No. 1,031,683; July 9; Gaz. vol. 180; p. 332.
Boero, Joseph, Paris, France, assignor to Gardner Crusher Company. Disintegrator. No. 1,013,527; Jan. 2; Sp. p. 953; Gaz. vol. 174; p. 153.
Boesel, George, New Orleans, La. Filter for saccharine juices. No. 1,035,680; Aug. 13; Gaz. vol. 181; p. 463.
Boetting, Charles, *et al.* (See Lake, Albert D., assignor.)
Bogard, James T., Timpson, Tex. Rail-joint. No. 1,018,234; Feb. 20; Sp. p. 4441; Gaz. vol. 175; p. 762.
Bogart, Richard W., Jr., New York, N. Y. Sanitary shield for telephone-transmitters. No. 1,044,480; Nov. 19; Gaz. vol. 184; p. 560.
Bogdânffy, Alexander, New York, assignor to International Cork Company, Brooklyn, N. Y. Automatic feeder for the metallic caps of crown corks. No. 1,022,818; Apr. 9; Sp. p. 2287; Gaz. vol. 177; p. 391.
Bogdânffy, Alexander, New York, assignor to International Cork Company, Brooklyn, N. Y. Cork-shell-cutting machine. No. 1,048,282; Dec. 24; Gaz. vol. 185; p. 957.
Bogdânffy, Alexander, New York, assignor to International Cork Company, Brooklyn, N. Y. Cork-cutting machine. No. 1,048,283; Dec. 24; Gaz. vol. 185; p. 958.
Bogen, Louis E., Milwaukee, Wis., assignor to Allis-Chalmers Company. System of electrical distribution. No. 1,023,500; Apr. 16; Sp. p. 3718; Gaz. vol. 177; p. 658.
Bogen, Louis E., Milwaukee, Wis., assignor to Allis-Chalmers Company. System of control. No. 1,030,050; June 18; Sp. p. 4332; Gaz. vol. 179; p. 748.
Bogert, George J., *et al.* (See Goodhart, Howard B., assignor.)
Bogert, Marston T., New York, N. Y. Products obtainable from 4.6-diamino-1.3-xylene and making same. No. 1,032,734; July 16; Gaz. vol. 180; p. 736.
Boggan, Lillie, Atkins, Ark. Brace. No. 1,031,105; July 2; Gaz. vol. 180; p. 91.
Boggs, Atwood L. (See Patnaude, William E., assignor.)
Boggs, Frank, Prattsburg, N. Y. Potato-sorter. No. 1,032,375; July 16; Gaz. vol. 180; p. 613.
Boggs, Samuel L., Pittsburgh, Pa. Separator and collector for metals. No 1,037,114; Aug. 27; Gaz. vol. 181; p. 1022.
Boggs, W. B. (See Barbour, James, assignor.)
Bogley, Emery H., *et al.* (See Rohr, Marshall J., assignor.)
Bogley, John W., *et al.* (See Rohr, Marshall J., assignor.)
Bobaček, Paul, assignor to Moenus Machine Works, Frankfort-on-the-Main, Germany. Pulling-over and toe-lasting machine for use in the manufacture of boots and shoes. No. 1,023,194; Apr. 16; Sp. p. 3120; Gaz. vol. 177; p. 558.
Bohaćek, Paul, assignor to Maschinenfabrik Moenus A. G., Frankfort-on-the-Main, Germany. Staking-machine. No. 1,039,016; Sept. 17; Gaz. vol. 182; p. 691.
Bohan, William J., St. Paul, Minn. Berth-lamp. No. 1,025,675; May 7; Sp. p. 1264; Gaz. vol. 178; p. 196.
Bohannon, Nathaniel, Victoria, Va. Car seal and tag. No. 1,048,387; Dec. 24; Gaz. vol. 185; p. 993.
Bohatka, Joseph S., Chicago, Ill. Swing. No. 1,026,784; May 21; Sp. p. 3731; Gaz. vol. 178; p. 646.
Bohin, Paul, Paris, France. Needle-making machine. No. 1,042,879; Oct. 29; Gaz. vol. 183; p. 1217.
Bohland, Carl P., Seattle, Wash. Pile-driving head. No. 1,023,615; Apr. 16; Sp. p. 3958; Gaz. vol. 177; p. 695.
Bohlig Manufacturing Company. (See Bohlig, Martin, assignor.)
Bohlig, Martin, St. Paul, Minn. Magazine-brush. No. 1,013,369; Jan. 2; Sp. p. 613; Gaz. vol. 174; p. 98.
Bohlig, Martin, St. Paul, Minn. Soap-dispenser. No. 1,041,417; Oct. 15; Gaz. vol. 183; p. 655.
Bohlig, Martin, assignor to Bohlig Manufacturing Company, St. Paul, Minn. Cooking apparatus. No. 1,047,122; Dec. 10; Gaz. vol. 185; p. 497.
Bohlin, Samuel K., Gottenborg, Sweden. Photographic plate or film holder and camera adapted to receive the same. No. 1,015,130; Jan. 16; Sp. p. 4519; Gaz. vol. 174; p. 761.
Bohlinger, Henry, Gilmanton, Wis. Packer-arm for grain-binders. No. 1,029,416; June 11; Sp. p. 2942; Gaz. vol. 179; p. 492.
Böhm, Conrad R., Berlin, Germany. Manufacture of incandescence bodies for gas-lighting. No. 1,020,255; Mar. 12; Sp. p. 2658; Gaz. vol. 176; p. 451.
Bohm, Ernst A. (See Rugaard, Louis, assignor.)
Bohn, Harry G., New York, N. Y. Drafting instrument. No. 1,014,803; Jan. 16; Sp. p. 3814; Gaz. vol. 174; p. 648.
Bohn, Michael, Nagykikinda, Austria-Hungary. Machine for cleaning and sorting clay or the like. No. 1,031,832; July 9; Gaz. vol. 180; p. 384.
Bohn, Michael, Nagykikinda, Austria-Hungary. Apparatus for separating granular admixtures from clay and like plastic substances. No. 1,033,377; July 23; Gaz. vol. 180; p. 990.
Bohnengel, Andrew J., Toledo, Ohio. Tape-guiding means for goods-rolling machines. No. 1,034,575; Aug. 6; Gaz. vol. 181; p. 58.
Bohnsack, Ada, and H. Wilkenhoner, Chicago, Ill. Article of virtu. No. 1,044,009; Nov. 12; Gaz. vol. 184; p. 370.
Bohy, Alfred, Hocking, Iowa. Pick-handle. No. 1,022,924; Apr. 9; Sp. p. 2502; Gaz. vol. 177; p. 427.
Boice, Mary E., Alexander, N. D. Dish-receptacle. No. 1,028,320; June 4; Sp. p. 559; Gaz. vol. 179; p. 83.
Boies, David, and J. A. Waddell, Jr., assignors to Spencer Heater Company, Scranton, Pa. Sectional boiler. No. 1,045,668; Nov. 26; Gaz. vol. 184; p. 1006.
Boilot, Theophile V. L., Clermont-Ferrand, France. Portable scaffold. No. 1,042,192; Oct. 22; Gaz. vol. 183; p. 951.
Bois, Joseph A. C. (See Reno and Bois.)
Boitano, Columbo. (See Dabadie, John L., assignor.)
Boivin, Joseph, assignor of one-half to G. W. Renkel, Paterson, N. J. Combination-tool. No. 1,032,376; July 16; Gaz. vol. 180; p. 613.
Boivin, Joseph, Paterson, N. J., assignor to New Idea Metal Goods Company. Collar and shirt securing device or fastener. No. 1,047,733; Dec. 17; Gaz. vol. 185; p. 745.
Bokalrud, Christopher, McIntosh, S. D. Milking-machine. No. 1,017,502; Feb. 13; Sp. p. 2806; Gaz. vol. 175; p. 474.
Boland, Joseph K., New Orleans, La. Gear-shifting mechanism. No. 1,028,532; June 4; Sp. p. 1026; Gaz. vol. 179; p. 156.
Bolander, Aaron, assignor to J. H. Todd, Barberton, Ohio. Wagon-stake. No. 1,017,503; Feb. 13; Sp. p. 2808; Gaz. vol. 175; p. 474.
Boldig, Louis, Tigerton, Wis. Combined hay, stock, and fowl rack. No. 1,048,799; Dec. 31; Gaz. vol. 185; p. 1175.
Boldizs, Mike, Sterling, Ill. Cuspidor. No. 1,023,616; Apr. 16; Sp. p. 3959; Gaz. vol. 177; p. 695.
Bolduc, George H., Detroit, Mich. Car-fender and wheel-guard. No. 1,039,086; Sept. 24; Gaz. vol. 182; p. 730.
Bolduc, George J., Seattle, Wash. Oil-burner. No. 1,026,240; May 14; Sp. p. 2540; Gaz. vol. 178; p. 426.
Bolduc, William H., Clifton Heights, Pa. Drawing-roll. No. 1,018,867; Feb. 27; Sp. p. 5850; Gaz. vol. 175; p. 1009.
Bole, William A., assignor, by mesne assignments, to The Colonial Trust Company, trustee, Pittsburgh, Pa. Blade-mounting. No. 1,026,651; May 21; Sp. p. 3441; Gaz. vol. 178; p. 600.
Bolen, Cyrus O., Upham, N. D. Trip device for harvesting-machines. No. 1,039,690; Oct. 1; Gaz. vol. 183; p. 6.
Bolens, Harry W., Port Washington, Wis. Internal-combustion engine. No. 1,044,481; Nov. 19; Gaz. vol. 184; p. 560.
Boles, Robert, Eldersville, Pa. Nut-lock. No. 1,024,307; Apr. 23; Sp. p. 5455; Gaz. vol. 177; p. 956.
Bolger, James W. (See McCloy and Bolger.)
Bolick, David D., Topeka, Kans., assignor of one-half to T. H. Hassey, Brooklyn, N. Y. Fly-trap. No. 1,017,644; Feb. 20; Sp. p. 3084; Gaz. vol. 175; p. 557.
Bolin, Simon, and A. Janson, Menominee, Mich. Shovel. No. 1,029,967; June 18; Sp. p. 4147; Gaz. vol. 179; p. 718.
Boling, Samuel M., Oklahoma, assignor of one-half to L. W. Bozarth, Chandler, Okla. Scale-tester. No. 1,013,732; Jan. 2; Sp. p. 1417; Gaz. vol. 174; p. 223.
Bolinger, William F., Avonmore, Pa. Curtain-pole. No. 1,021,570; Mar. 26; Sp. p. 5470; Gaz. vol. 176; p. 983.
Bölken Eisenbeton-Hohldecken-Patente "System Wrissenberg Gebrüder." (See Wrissenberg, Julius H. A., assignor.)
Boll, George W., Wichita, Kans. Apparatus for drying grain in bins or granaries. No. 1,020,256; Mar. 12; Sp. p. 2659; Gaz. vol. 176; p. 451.
Bollée, Léon, Le Mans, France. Press for testing or other purposes. No. 1,018,158; Feb. 20; Sp. p. 4288; Gaz. vol. 175; p. 736.
Bollée, Léon, Le Mans, France. Vertical engine. No. 1,027,807; May 28; Sp. p. 5931; Gaz. vol. 178; p. 1030.

Alphabetical list of patentees—Continued.

Bollée, Léon, Le Mans, France. Carbureter. No. 1,046,434; Dec. 10; Gaz. vol. 185; p. 259.
Bolles Iron & Wire Works, J. E (See Haskell, George H., assignor.)
Bollinger, Harrison D., Great Falls, Mont. Adjustable caster. No. 1,027,686; May 28; Sp. p. 5687; Gaz. vol. 178; p. 991.
Bollo, Vittorio, and E. Cadenaccio, Genoa, Italy. Reduction of sulfates. No. 1,045,769; Nov. 26; Gaz. vol. 184; p. 1040.
Bolte, Edward F., Chicago, Ill., assignor of one-half to T. H. Bolte, Kearney, Nebr. Concrete-mixer. No. 1,041,005; Oct. 15; Gaz. vol. 183; p. 516.
Bolte, Edward F., Chicago, Ill., assignor of one-half to T. H. Bolte, Kearney, Nebr. Concrete-mixer. No. 1,045,117; Nov. 26; Gaz. vol. 184; p. 811.
Bolte, Otto, Hamburg, Germany. Stethoscope, hearing-trumpet, ear-trumpet, and the like sound-conducting instruments. No. 1,044,858; Nov. 19; Gaz. vol. 184; p. 692.
Bolte, Theodore H. (See Bolte, Edward F., assignor.)
Bolter, Willis R. (See Shiels and Bolter.)
Bolton, Andrew C., assignor to The Gutta Percha & Rubber Manufacturing Co., New York, N. Y. Machine for manufacturing hose. No. 1,028,067; May 28; Sp. p. 6528; Gaz. vol. 178; p. 1116.
Bolton, Annie C. E., administratrix. (See Bolton, Daniel G.)
Bolton, Arthur T., New York, N. Y. Product-number indicator. No. 1,021,965; Apr. 2; Sp. p. 463; Gaz. vol. 177; p. 74.
Bolton, Daniel. (See Fahrman and Bolton.)
Bolton, Daniel G., deceased; A. C. E. Bolton, administratrix, assignor to F. S. Diener, Camden, N. J. Electrical insulator. No. 1,020,122; Mar. 12; Sp. p. 2377; Gaz. vol. 176; p. 406.
Bolton, George E. (See Lynch and Bolton.)
Bolton, John H., St. Louis, Mo. Toy. No. 1,041,582; Oct. 15; Gaz. vol. 183; p. 708.
Bolton, Werner von, Charlottenburg, Germany, assignor to General Electric Company. Increasing the ductility of metallic tungsten. No. 1,017,280; Feb. 13; Sp. p. 2334; Gaz. vol. 175; p. 397.
Boltshauser, Heinrich, assignor to Aktiengesellschaft der Maschinenfabriken Escher Wyss & Cie., Zurich, Switzerland. Nozzle of axial-flow turbines. No. 1,024,391; Apr. 23; Sp. p. 5595; Gaz. vol. 177; p. 981.
Bolz, Frank R., Somerville, Mass. Tire-supporting case. No. 1,043,752; Nov. 5; Gaz. vol. 184; p. 249.
Boman, Claes W., New York, assignor to C. J. Tagliabue, Brooklyn, N. Y. Clinical-thermometer casing. No. 1,024,824; Apr. 30; Sp. p. 6624; Gaz. vol. 177; p. 1169.
Boman, Claes W., assignor to Eagle Pencil Company, New York, N. Y. Eraser-tip for lead-pencils, &c. No. 1,027,030; May 21; Sp. p. 4312; Gaz. vol. 178; p. 732.
Boman, Eric, Annandale, Sydney, New South Wales, Australia. Hand attachment serviceable for swimming. No. 1,014,939; Jan. 16; Sp. p. 4130; Gaz. vol. 174; p. 696.
Bomeisler, Carl. (See Brooke, George, assignor.)
Bommersbach, John N., Decatur, Ill. Split-carnation mender. No. 1,046,143; Dec. 3; Gaz. vol. 185; p. 119.
Bommhardt, John A., *et al.* (See Bergens, William J., assignor.)
Bonadio, Pasquale, Watertown, N. Y. Hose-coupling. No. 1,039,354; Sept. 24; Gaz. vol. 182; p. 824.
Bonar, Eddie A., Detroit, Mich. Artificial leg. No. 1,044,980; Nov. 19; Gaz. vol. 184; p. 734.
Bond, Alfred C., Lenox, Mass. Lawn-mower. No. 1,044,735; Nov. 19; Gaz. vol. 184; p. 650.
Bond, Charles J., assignor to The Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 1,016,318; Feb. 6; Sp. p. 186; Gaz. vol. 175; p. 28.
Bond Foundry & Machine Company. (See Bowen, James, assignor.)
Bond Foundry & Machine Company. (See Streeper, Charles W., assignor.)
Bond, Frank E., Walton, N. Y. Antiskidding device for motor-vehicle tires. No. 1,046,954; Dec. 10; Gaz. vol. 185; p. 441.
Bond, Jayson K., assignor of one-half to K. W. Jacobs, Milwaukee, Wis. Automobile-fender. No. 1,027,808; May 28; Sp. p. 5932; Gaz. vol. 178; p. 1030.
Bond, Joseph T., Spencerville, Md., assignor to Purity Paper Bottle Corporation, Washington, D. C. Forming closures or caps for receptacles. No. 1,047,373; Dec. 17; Gaz. vol. 185; p. 618.
Bond, Thomas H., Belle Ville, Va. Plow. No. 1,031,414; July 2; Gaz. vol. 180; p. 199.
Bond, William A., Lynnfield, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for inserting fastenings. No. 1,014,940; Jan. 16; Sp. p. 4132; Gaz. vol. 174; p. 696.
Bond, William A., Lynnfield, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Gripper. No. 1,032,269; July 9; Gaz. vol. 180; p. 531.
Bond, William A., assignor of one-half to A. M. Johnson, Lynn, Mass. Launching device for flying-machines. No. 1,033,148; July 23; Gaz. vol. 180; p. 912.
Bond, William H., assignor to Mt. Holyoke Tissue Mills, Holyoke, Mass. Paper towel and napkin package. No. 1,028,084; May 28; Sp. p. 6577; Gaz. vol. 178; p. 1122.
Bondy, Edmund R., *et al.* (See Rose, Max C., assignor.)
Bone, William A., J. W. Wilson, Leeds, and C. D. McCourt, London, England. Means and apparatus for the generation of steam. No. 1,015,131; Jan. 16; Sp. p. 4521; Gaz. vol. 174; p. 762.
Bone, William A., J. W. Wilson, Leeds, and C. D. McCourt, London, England. Steam generation, feed-water heating, and heating of liquids generally. No. 1,015,261; Jan. 16; Sp. p. 4778; Gaz. vol. 174; p. 804.
Boner, Johann H., Ludwigshafen-on-the-Rhine, and O. Bally, Mannheim, assignors to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Anthracene compound and making same. No. 1,026,557; May 14; Sp. p. 3214; Gaz. vol. 178; p. 531.
Boness, John, Ozone Park, N. Y. Hinge. No. 1,022,174; Apr. 2; Sp. p. 894; Gaz. vol. 177; p. 142.
Bonesteel, Horace S., Green Bay, Wis. Water-gage. No. 1,040,127; Oct. 1; Gaz. vol. 183; p. 153.
Bong, Albert, Heron Lake, Minn. Lubricating-hub. No. 1,046,955; Dec. 10; Gaz. vol. 185; p. 441.
Bonham, Charles S., Denver, Colo. Grass-catcher for lawn-mowers. No. 1,029,527; June 11; Sp. p. 3152; Gaz. vol. 179; p. 529.
Bonham, James W., Manhattan, Kans. Lawn-mower. No. 1,042,880; Oct. 29; Gaz. vol. 183; p. 1217.
Böniger, Melchior, assignor to Chemische Fabrik vormals Sandoz, Basel, Switzerland. Dark-blue monoazo dyestuffs. No. 1,014,039; Jan. 9; Sp. p. 2134; Gaz. vol. 174; p. 356.
Böniger, Melchior, assignor to Chemische Fabrik vormals Sandoz, Basel, Switzerland. Red monoazo dyestuffs. No. 1,014,114; Jan. 9; Sp. p. 2293; Gaz. vol. 174; p. 382.
Bonin, Alexander L., Montreal, Quebec, Canada. Detachable tooth-brush. No. 1,020,018; Mar. 12; Sp. p. 2158; Gaz. vol. 176; p. 372.
Bonine, Charles E., Philadelphia, Pa. Electric-lighting system. No. 1,023,121; Apr. 16; Sp. p. 2932; Gaz. vol. 177; p. 532.
Bonine, Charles E., Philadelphia, Pa. Electric lighting and engine-starting system. No. 1,023,122; Apr. 16; Sp. p. 2938; Gaz. vol. 177; p. 532.
Bonine, Charles E., Elizabeth, assignor to Electro-Dynamic Company, Bayonne, N. J. Apparatus for regulating dynamo-electric machines. No. 1,026,900; May 21; Sp. p. 3990; Gaz. vol. 178; p. 686.
Bonine, Charles E., Elizabeth, assignor to Electro-Dynamic Company, Bayonne, N. J. Dynamo-electric machine. No. 1,047,158; Dec. 17; Gaz. vol. 185; p. 540.
Bonine, Charles E., Philadelphia, assignor to Newtown Producing Company, Newtown, Pa. Incubator. No. 1,049,042; Dec. 31; Gaz. vol. 185; p. 1259.
Bonita Mfg. Co. (See Brenizer, Orson W., assignor.)
Boniventure, Robert A., New York, N. Y. Telephone. No. 1,022,175; Apr. 2; Sp. p. 896; Gaz. vol. 177; p. 143.
Bonn, Edward E. (See Beck, John C., assignor.)
Bonnell, Hattie W. (See Bonnell, William A., assignor.) (Reissue.)
Bonnell, Russell, Elizabeth, N. J. Water-cooler. No. 1,019,416; Mar. 5; Sp. p. 962; Gaz. vol. 176; p. 140.
Bonnell, William A., assignor to H. W. Bonnell, Brooklyn, N. Y. Outlet-box for electric conduits. (Reissue.) No. 13,432; June 25; Sp. p. 6453; Gaz. vol. 179; p. 1075.
Bonness, William F., Madison, Wis. Lock-nut. No. 1,033,778; July 30; Gaz. vol. 180; p. 1146.
Bonness, William F., Madison, Wis. Nut-lock. No. 1,039,017; Sept. 17; Gaz. vol. 182; p. 691.
Bonnette, Perry B., Chicago, Ill. Cattle-stanchion. No. 1,040,864; Oct. 8; Gaz. vol. 183; p. 434.
Bonney, Bick R., assignor to E. A. Bittel, Kansas City, Mo. Poultry-perch. No. 1,038,079; Sept. 10; Gaz. vol. 182; p. 336.
Bonney, Wilson M., Norfolk, Va. Awning. No. 1,028,321; June 4; Sp. p. 562; Gaz. vol. 179; p. 83.
Bonnington, Alexander, and H. G. Akers, Toronto, Ontario, Canada. Producing calcium cyanamid. No. 1,021,445; Mar. 26; Sp. p. 5199; Gaz. vol. 176; p. 941.
Bono, Michelangelo, New York, N. Y. Suspenders. No. 1,040,128; Oct. 1; Gaz. vol. 183; p. 153.
Bonom, Alfred, Paterson, N. J. Turbine. No. 1,027,309; May 21; Sp. p. 4909; Gaz. vol. 178; p. 826.
Bonsall, Seymour W., New York, N. Y. Wardrobe. No. 1,019,219; Mar. 5; Sp. p. 467; Gaz. vol. 176; p. 74.
Bonsall, Seymour W., New York, N. Y. Wardrobe. No. 1,043,059; Nov. 5; Gaz. vol. 184; p. 3.
Bonsall, Seymour W., Rye, N. Y. Rotary drier. No. 1,047,610; Dec. 17; Gaz. vol. 185; p. 702.
Bonsall, Seymour W., New York, N. Y. Rotary drier. No. 1,047,734; Dec. 17; Gaz. vol. 185; p. 745.
Bonsall, Seymour W., New York, N. Y. Rotary drier. No. 1,047,905; Dec. 17; Gaz. vol. 185; p. 804.
Bonser, Stanley W., Philadelphia, Pa. Valve. No. 1,046,435; Dec. 10; Gaz. vol. 185; p. 259.
Bonsness, Edward, Martell, Wis. Sieve-adjuster for sieve-shoes. No. 1,040,129; Oct. 1; Gaz. vol. 183; p. 154.

Alphabetical list of patentees—Continued.

Bonsteel, John H., assignor of one-half to F. J. Richardson, Niagara Falls, N. Y. Motor. No. 1,015,663; Jan. 23; Sp. p. 5674; Gaz. vol. 174; p. 970.
Bonynge, William H. (See Pasman, Abram N., assignor.)
Booe, Lex P., and R. Davis, Chanute, Kans. Gas-well packer. No. 1,038,080; Sept. 10; Gaz. vol. 182; p. 336.
Book, William J., Earling, Iowa. Washbench. No. 1,028,533; June 4; Sp. p. 1027; Gaz. vol. 179; p. 156.
Booker, Harvey, Wilmington, Del. Attachment for wheels. No. 1,034,410; Aug. 6; Gaz. vol. 181; p. 4.
Booker, William E., Baltimore, Md. Sign. No. 1,026,310; May 21; Sp. p. 4911; Gaz. vol. 178; p. 826.
Bookwalter, John F., Palestine, Ill. Fruit-picker. No. 1,039,640; Sept. 24; Gaz. vol. 182; p. 924.
Booman, Johan E., Brooklyn, N. Y. Actuating-holder for small tools. No. 1,016,607; Feb. 6; Sp. p. 868; Gaz. vol. 175; p. 130.
Boomhower, Frederick K., and W. A. Eberman, Chicago, Ill. Register. No. 1,026,070; May 14; Sp. p. 2170; Gaz. vol. 178; p. 367.
Boone, John F., Portland, Oreg. Traction-engine. No. 1,027,311; May 21; Sp. p. 4912; Gaz. vol. 178; p. 826.
Boone, Rush. (See Richendrfer and Boone.)
Boone, Thomas M., Kingwood, W. Va. Gate-hanging. No. 1,020,019; Mar. 12; Sp. p. 2159; Gaz. vol. 176; p. 372.
Boone, Wallie R., and C. A. Watson, assignors of one-third to L. P. Gandy, Crews, Tex. Locking device. No. 1,016,541; Feb. 6; Sp. p. 728; Gaz. vol. 175; p. 107.
Booraem, J. Francis. (See Rohmer, Gabriel E., assignor.) (Reissue.)
Booraem, John V. V. (See Jacquart and Booraem.)
Booth, Edgar and N. R., Halifax, England. Electric-lighting system. No. 1,024,495; Apr. 30; Sp. p. 5889; Gaz. vol. 177; p. 1053.
Booth, Glen R., Chana, Ill. Lifting-jack. No. 1,020,879; Mar. 19; Sp. p. 3989; Gaz. vol. 176; p. 695.
Booth, Irving E., *et al.* (See Flynt, Louis W. G., assignor.)
Booth, Jacob, Reynoldsville, Pa. Railway-tie. No. 1,017,947; Feb. 20; Sp. p. 3815; Gaz. vol. 175; p. 662.
Booth, James A., Everett, assignor of one-half to R. Wyllys and one-half to E. L. Gay, Boston, Mass. Can-soldering machine. No. 1,018,159; Feb. 20; Sp. p. 4289; Gaz. vol. 175; p. 737.
Booth, James F., Rushland, Pa. Metallic railway-tie. No. 1,035,412; Aug. 13; Gaz. vol. 181; p. 373.
Booth, James H., assignor of one-half to R. D. Turner, Point Peter, Ga. Sweep-holder attachment. No. 1,031,234; July 2; Gaz. vol. 180; p. 136.
Booth, Norman R. (See Booth, Edgar and N. R.)
Booth, Oscar D., assignor to Ideal Development Company, Everett, Wash. Current-motor. No. 1,039,087; Sept. 24; Gaz. vol. 182; p. 730.
Booth, Quentin W., *et al.* (See Flynt, Louis W. G., assignor.)
Booth, William, East Liverpool, Ohio. Combined cabinet and tray. No. 1,015,664; Jan. 23; Sp. p. 5676; Gaz. vol. 174; p. 970.
Booth, William, Scranton, Pa. Burner. No. 1,019,592; Mar. 5; Sp. p. 1311; Gaz. vol. 176; p. 197.
Booth, William A., *et al.* (See Taylor, James M., assignor.)
Booth, William N., Cleveland, Ohio. Valve connection for demountable rims. No. 1,044,435; Nov. 12; Gaz. vol. 184; p. 514.
Boothby, William T., assignor of one-half to G. B. H. Sandford, Marietta, Ohio. Attachment for woodworking-machines. No. 1,022,176; Apr. 2; Sp. p. 898; Gaz. vol. 177; p. 143.
Boothe, L. F. (See Holt, George M., assignor.)
Boothe, Samuel B. (See Quinn, Ambrose A., assignor.)
Boots, Marion E., Leadville, Colo. Wave and current motor. No. 1,029,788; June 18; Sp. p. 3732; Gaz. vol. 179; p. 657.
Booty, Emily R. (See Lofthouse and Booty.)
Booze, Harry R., Buchanan, Va. Wire-clamp. No. 1,028,183; June 4; Sp. p. 287; Gaz. vol. 179; p. 36.
Boozer, Albert E. (See Perry and Boozer.)
Bopp, Clinton L., Hawkeye, Iowa. Combined telegraph and telephone system. No. 1,044,981; Nov. 19; Gaz. vol. 184; p. 735.
Bopp, Clinton L., Hawkeye, assignor of one-fourth to F. Straate and one-eighth to J. Moran, Waukon, Iowa. Telephone and telegraph combination system. No. 1,016,202; Jan. 30; Sp. p. 6796; Gaz. vol. 174; p. 1181.
Borbeck, Martin O., Tracy, Minn. Fountain-pen. No. 1,024,245; Apr. 23; Sp. p. 5343; Gaz. vol. 177; p. 936.
Borchardt, Hugo, Charlottenburg, Germany. Small-arm. No. 1,025,733; May 7; Sp. p. 1385; Gaz. vol. 178; p. 216.
Borchardt, William, St. Louis, Mo. Machine for attaching gut to fish-hooks. No. 1,034,758; Aug. 6; Gaz. vol. 181; p. 120.
Borchers, Wilhelm, Aachen, Germany, and H. Pedersen, Trondhjem, Norway. Extraction of copper and nickel, particularly from low-grade ores and products. No. 1,043,291; Nov. 5; Gaz. vol. 184; p. 87.
Borchert, Fred M., Chicago, Ill. Food composition. No. 1,023,919; Apr. 23; Sp. p. 4617; Gaz. vol. 177; p. 821.
Bordeleau, George W., Buffalo, N. D. Tongue and pole for threshing-machines. No. 1,042,526; Oct. 29; Gaz. vol. 183; p. 1094.
Borden, Bradford, Toronto, Ontario, Canada. Pipe-threading tool. No. 1,029,662; June 18; Sp. p. 3449; Gaz. vol. 179; p. 612.
Borden, Bradford, Toronto, Ontario, Canada. Pipe-threading tool. No. 1,029,968; June 18; Sp. p. 4148; Gaz. vol. 179; p. 719.
Borden, Bradford, Toronto, Ontario, Canada, assignor to The Borden Company, Warren, Ohio. Pipe-cutting tool. No. 1,017,037; Feb. 13; Sp. p. 1788; Gaz. vol. 175; p. 311.
Borden, Bradford, Toronto, Ontario, Canada, assignor to The Borden Company, Warren, Ohio. Pipe-cutting tool. No. 1,020,795; Mar. 19; Sp. p. 3811; Gaz. vol. 176; p. 667.
Borden, Bradford, Toronto, Ontario, Canada, assignor to The Borden Company, Warren, Ohio. Pipe-cutting tool. No. 1,029,265; June 11; Sp. p. 2584; Gaz. vol. 179; p. 439.
Borden, Bradford, Toronto, Ontario, Canada, assignor to The Borden Company, Warren, Ohio. Thread-cutting tool. No. 1,033,983; July 30, Gaz. vol. 180; p. 1219.
Borden, Bradford, Toronto, Ontario, Canada, assignor to The Borden Company, Warren, Ohio. Die-head. No. 1,036,550; Aug. 27; Gaz. vol. 181; p. 833.
Borden, Bradford, Toronto, Ontario, Canada, assignor to The Borden Company, Warren, Ohio. Pipe-threading die. No. 1,038,482; Sept. 10; Gaz. vol. 182; p. 473.
Borden, Bradford, Toronto, Ontario, Canada, assignor to The Borden Company, Warren, Ohio. Pipe-threading tool. No. 1,048,644; Dec. 31; Gaz. vol. 185; p. 1120.
Borden, Charles H., Hartford, Conn. Removable necktie-shaper. No. 1,041,418; Oct. 15; Gaz. vol. 183; p. 655.
Borden, Charles R. C., Brookline, Mass. Valve for automobile-tires. No. 1,045,937; Dec. 3; Gaz. vol. 185; p. 48.
Borden Company, The. (See Borden, Bradford, assignor.)
Borden Company, The. (See Howe, Alfred F., assignor.)
Borden, Howard W., Swarthmore, Pa. Bending-machine. No. 1,041,419; Oct. 15; Gaz. vol. 183; p. 656.
Borden, William H., Winchester, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for making and driving staples. No. 1,016,930; Feb. 13; Sp. p. 1544; Gaz. vol. 175; p. 274.
Borden's Condensed Milk Company. (See Chewning, Stapleton S., assignor.)
Borden's Condensed Milk Company. (See Hausheer, Bernard, assignor.)
Borden's Condensed Milk Company. (See Taylor, Burt E., assignor.)
Border, William N., Dunlap, Mo. Shock-absorber. No. 1,044,339; Nov. 12; Gaz. vol. 184; p. 483.
Bordges, William R., Salinas, Cal. Levee-machine. No. 1,022,768; Apr. 9; Sp. p. 2184; Gaz. vol. 177; p. 374.
Bordley, John T. (See Redfield and Bordley.)
Bordo, Lambert J., Hillside, Pa. Gas-engine attachment. No. 1,044,125; Nov. 12; Gaz. vol. 184; p. 409.
Borés, Andrés, Barcelona, Spain. Adjustable mattress. No. 1,018,807; Feb. 27; Sp. p. 5730; Gaz. vol. 175; p. 989.
Borg, Charles W., Rock Island, Ill. Column cap and base shaping machine. No. 1,026,071; May 14; Sp. p. 2171; Gaz. vol. 178; p. 367.
Borg, Charles W., Moline, Ill. Feed and pressure mechanism for woodworking-machines. No. 1,038,483; Sept. 10; Gaz. vol. 182; p. 473.
Borg, Fred, and E. W. Lantz, Hannah, N. D. Snowmobile attachment. No. 1,015,270; Jan. 16; Sp. p. 4798; Gaz. vol. 174; p. 808.
Borgen, Oscar, Dallas, Wis. Ensilage-carrier. No. 1,028,988; June 11; Sp. p. 2001; Gaz. vol. 179; p. 345.
Borger, Erastus, Kunkletown, Pa. Railway-tie. No. 1,040,264; Oct. 8; Gaz. vol. 183; p. 228.
Borgman, Francis S., Pittsburgh, Pa. Loose-leaf binder. No. 1,032,809; July 16; Gaz. vol. 180; p. 761.
Borgmeyer, David H., St. Charles, Mo. Mail-bag rack for mail-cars. No. 1,035,523; Aug. 13; Gaz. vol. 181; p. 411.
Borkman, Carl O., Victor, Colo. Drill forging and sharpening machine. No. 1,022,925; Apr. 9; Sp. p. 2503; Gaz. vol. 177; p. 427.
Borland, Bruce, Chicago, Ill. Lock. No. 1,037,115; Aug. 27; Gaz. vol. 181; p. 1023.
Borman, Sydney, Attleboro, Mass. Flying-machine. No. 1,030,803; June 25; Sp. p. 6240; Gaz. vol. 179; p. 1054.
Born, Joseph, assignor to Rockwood Manufacturing Company, Indianapolis, Ind. Friction-wheel. No. 1,013,117; Jan. 2; Sp. p. 52; Gaz. vol. 174; p. 11.
Born, Kurt, Kreuzburg, Germany. Conversations-counter for telephones. No. 1,014,634; Jan. 16; Sp. p. 3446; Gaz. vol. 174; p. 592.
Born, William G., Chicago, Ill., assignor, by mesne assignments, to Wood Process Company, New York, N. Y. Apparatus for impregnating logs. No. 1,043,060; Nov. 5; Gaz. vol. 184; p. 3.
Bornander, John. (See Ripper and Bornander.)
Borneman, Charles M. (See Borneman, William and C. M.)

Alphabetical list of patentees—Continued.

Borneman, William and C. M., Allentown, Pa. Music-leaf turner. No. 1,035,774; Aug. 13; Gaz. vol. 181; p. 494.
Bornemann, Karl, Aix-la-Chapelle, assignor to Chemische Fabrik Coswig-Anhalt, G. m. b. H., Coswig-Anhalt, Germany. Obtaining porous and fairly-pure barium oxid from barium carbonate. No. 1,041,583; Oct. 15; Gaz. vol. 183; p. 708.
Börner, Eugen, Offenburg, Germany. Fresco-painting and colored weatherproof architectural ornament. No. 1,044,859; Nov. 19; Gaz. vol. 184; p. 692.
Bornmann, Carl. (See Topliff and Bornmann.)
Bornmann, Carl, assignor to Ansco Company, Binghamton, N. Y. Winding-key for photographic cameras. No. 1,029,266; June 11; Sp. p. 2586; Gaz. vol. 179; p. 440.
Bornmann, Carl, assignor to Ansco Company, Binghamton, N. Y. Pin-journal for photographic cameras. No. 1,029,267; June 11; Sp. p. 2587; Gaz. vol. 179; p. 440.
Bornmann, Carl, assignor to Ansco Company, Binghamton, N. Y. Photographic camera. No. 1,029,268; June 11; Sp. p. 2589; Gaz. vol. 179; p. 440.
Bornmann, Carl, assignor to Ansco Company, Binghamton, N. Y. Photographic camera. No. 1,029,269; June 11; Sp. p. 2591; Gaz. vol. 179; p. 440.
Bornmann, Carl, assignor to Ansco Company, Binghamton, N. Y. Photographic camera. No. 1,029,270; June 11; Sp. p. 2592; Gaz. vol. 179; p. 441.
Bornmann, Carl, assignor to Ansco Company, Binghamton, N. Y. Film-pack photographic apparatus. No. 1,031,516; July 2; Gaz. vol. 180; p. 232.
Bornmann, Carl, assignor to Ansco Company, Binghamton, N. Y. Photographic camera. No. 1,033,523; July 23; Gaz. vol. 180; p. 1037.
Bornmann, Carl, assignor to Ansco Company, Binghamton, N. Y. Photographic shutter. No. 1,033,524; July 23; Gaz. vol. 180; p. 1037.
Bornmann, Carl, assignor to Ansco Company, Binghamton, N. Y. Photographic camera. No. 1,033,525; July 23; Gaz. vol. 180; p. 1038.
Bornmann, Carl, assignor to Ansco Company, Binghamton, N. Y. Film-pack photographic apparatus. No. 1,034,865; Aug. 6; Gaz. vol. 181; p. 157.
Bornmann, Carl, assignor to Ansco Company, Binghamton, N. Y. Photographic camera. No. 1,037,722; Sept. 3; Gaz. vol. 182; p. 183.
Bornmann, Carl, assignor to Ansco Company, Binghamton, N. Y. Photographic camera. No. 1,039,088; Sept. 24; Gaz. vol. 182; p. 730.
Bornmann, Carl, assignor to Ansco Company, Binghamton, N. Y. Pin-journal for photographic cameras. No. 1,040,130; Oct. 1; Gaz. vol. 183; p. 154.
Bornmann, Carl, and G. W. Topliff, assignors to Ansco Company, Binghamton, N. Y. Photographic camera. No. 1,037,721; Sept. 3; Gaz. vol. 182; p. 183.
Bornstein, Jennie L., Dayton, Ohio. Sanitary support. No. 1,041,420; Oct. 15; Gaz. vol. 183; p. 656.
Borochow, Moses A., Brooklyn, N. Y. Refuse-receptacle. No. 1,019,732; Mar. 5; Sp. p. 1570; Gaz. vol. 176; p. 244.
Borries, Ehrmann F. von, East Shore Park, Minn. Rotatable bin. No. 1,016,911; Feb. 6; Sp. p. 1498; Gaz. vol. 175; p. 232.
Borron, Earl, New Boston, Mo. Penholder. No. 1,022,294; Apr. 2; Sp. p. 1134; Gaz. vol. 177; p. 181.
Borrusch, John, Maryville, Mo. Silo. No. 1,039,089; Sept. 24; Gaz. vol. 182; p. 731.
Borsodi, Morris, Scranton, Pa., assignor of one-half to L. Kleinmann, Brooklyn, N. Y. Water-heater. No. 1,020,682; Mar. 19; Sp. p. 3567; Gaz. vol. 176; p. 628.
Bortle, Alma J. (See Hunter, Louis C., assignor.)
Bortner, Frank W., Augusta, Ohio. Cereal coffee and making same. No. 1,030,711; June 25; Sp. p. 5987; Gaz. vol. 179; p. 1020.
Borton, Christina P., administratrix. (See Borton, Stockton.)
Borton, Stockton, Providence, R. I., assignor to Willcox & Gibbs Sewing Machine Company, New York, N. Y. Sewing-machine. No. 1,041,574; Oct. 15; Gaz. vol. 183; p. 705.
Borton, Stockton, deceased; C. P. Borton, Warwick, R. I., administratrix, assignor to Willcox & Gibbs Sewing Machine Company, New York, N. Y. Sewing-machine. No. 1,041,584; Oct. 15; Gaz. vol. 183; p. 708.
Borton, Stockton, deceased; C. P. Borton, Warwick, R. I., administratrix, assignor to Willcox & Gibbs Sewing Machine Company, New York, N. Y. Sewing-machine. No. 1,041,585; Oct. 15; Gaz. vol. 183; p. 709.
Borton, Stockton, deceased; C. P. Borton, Warwick, R. I., administratrix, assignor to Willcox & Gibbs Sewing Machine Company, New York, N. Y. Sewing-machine. No. 1,041,586; Oct. 15; Gaz. vol. 183; p. 709.
Boruff, Daniel C., Kansas City, Mo. Acetylene-gas generator. No. 1,038,081; Sept. 10; Gaz. vol. 182; p 336.
Borzykowski, Benno, Charlottenburg, Germany. Producing dyed cellulose ester. No. 1,041,587; Oct. 15; Gaz. vol. 183; p. 709.
Bos, Edmond, Montereau, France. Draft-increasing chimney-top. No. 1,033,060; July 16; Gaz. vol. 180; p. 844.
Bosanko, William J., New York, assignor of one-half to E. L. Stock, Brooklyn, N. Y. Bed. No. 1,037,419; Sept. 3; Gaz. vol. 182; p. 81.
Bosch, Carl, and W. Wild, assignors to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Making nitrates. No. 1,013,984; Jan. 9; Sp. p. 2004; Gaz. vol. 174; p. 339.
Bosch, Carl, and A. Mittasch, assignors to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Producing cyanids and cyanamids. No. 1,022,351; Apr. 2; Sp. p. 1248; Gaz. vol. 177; p. 200.
Bosch, Carl, and A. Mittasch, assignors to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Production of nitrids. No. 1,027,312; May 21; Sp. p. 4914; Gaz. vol. 178; p. 827.
Bosch, Carl, and A. Mittasch, assignors to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Producing ammonia and aluminium compounds. No. 1,043,798; Nov. 12; Gaz. vol. 184; p. 295.
Bosch, Carl, and H. Keller, assignors to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Absorbing oxids of nitrogen. No. 1,029,528; June 11; Sp. p. 3154; Gaz. vol. 179; p. 529.
Bosch, Carl G. (See Brown and Bosch.)
Bosch, Firm of Robert. (See Diemer, Anton, assignor.)
Bosch, Firm of Robert. (See Honold, Gottlob, assignor.)
Bosch, Firm of Robert. (See Honold and Rall, assignors.)
Bosch, Firm of Robert. (See Honold and Zähringer, assignors.)
Bosch, Firm of Robert. (See Honold, Rall, and Mumprecht, assignors.)
Bosch, Firm of Robert. (See Kratz, Franz, assignor.)
Bosch, Firm of Robert. (See Schäfer and Wagner, assignors.)
Bosch, Firm of Robert. (See Zähringer, Arnold, assignor.)
Bosch Magneto Company. (See Heins, Otto, assignor.)
Bosch-Rhea Company. (See Brown and Bosch, assignors.)
Boschee, Adam A., assignor of one-half to C. H. Suess, Lodi, Cal. Clothes-rack. No. 1,021,654; Mar. 26; Sp. p. 5615; Gaz. vol. 176; p. 1010.
Bosel, Albert C., Crosby, Minn. Metallic railway-tie and means for securing a rail to the same. No. 1,023,987; Apr. 23; Sp. p. 4758; Gaz. vol. 177; p. 844.
Bosenius, Hugo, Bochum, Germany. Ball-jointed cleaning device for gas-receivers. No. 1,023,239; Apr. 16; Sp. p. 3200; Gaz. vol. 177; p. 572.
Bosi, Louis, Hawthorne, N. Y. Drafting-pen. No 1,030,158; June 18; Sp. p. 4532; Gaz. vol. 179; p. 783.
Bösinger, Engelbert, Dresden, Germany. Manufacture of glass sign-boards. No. 1,024,551; Apr. 30; Sp. p. 6046; Gaz. vol. 177; p. 1074.
Bosler, Benjamin E., Johnstown, Pa. Method of punching. No. 1,040,265; Oct. 8; Gaz. vol. 183; p. 228.
Bosler, Benjamin E., Johnstown, Pa. Punch. No. 1,040,497; Oct. 8; Gaz. vol. 183; p. 308.
Bosley, William C., Houston, Tex. Rotary engine. No. 1,034,682; Aug. 6; Gaz. vol. 181; p. 92.
Bosnyakovits, Joseph, Cleveland, Ohio. Fire-escape. No. 1,032,810; July 16; Gaz. vol. 180; p. 761.
Bosquett, John F., Jersey City, N. J. Vehicle-tire. No. 1,025,734; May 7; Sp. p. 1387; Gaz. vol. 178; p. 217.
Bosqui, Daniel, Gold Road, Ariz., assignor, by mesne assignments, to Merrill Metallurgical Company, San Francisco, Cal. Method and apparatus for the precipitation of gold and silver from cyanid solutions. No. 1,018,604; Feb. 27; Sp. p. 5301; Gaz. vol. 175; p. 920.
Bosqui, Daniel, Monahan, Wash., assignor to Merrill Metallugical Company. Precipitating apparatus for cyanid solutions. No. 1,035,941; Aug. 20; Gaz. vol. 181; p. 589.
Bosredon, Jean de, Paris, France. Making tools. No. 1,025,735; May 7; Sp. p. 1388; Gaz. vol. 178; p. 217.
Boss and Baldwin. (See Ellis, Fred S., assignor.)
Boss, John C., Elkhart, Ind. Apparatus for drying bricks. No. 1,026,558; May 14; Sp. p. 3216; Gaz. vol. 178; p. 531.
Boss, John G., Denver, Colo. Non-skidding tire. No. 1,040,865; Oct. 8; Gaz. vol. 183; p. 434.
Boss, William, St. Paul, Minn. Clothes-line reel. No. 1,017,734; Feb. 20; Sp. p. 3271; Gaz. vol. 175; p. 586.
Boss, William, St. Paul, Minn. Grass-collector. No. 1,032,180; July 9; Gaz. vol. 180; p. 501.
Boss, William, St. Paul, Minn. Grass-collector for lawn-mowers. No. 1,039,355; Sept. 24; Gaz. vol. 182; p. 825.
Bossé, Adolphe E., Pittsburgh, Pa. assignor to Acme Refrigerating Company. Check or safety valve. No. 1,021,758; Apr. 2; Sp. p. 7; Gaz. vol. 177; p. 4.
Bossé, Adolphe E., Pittsburgh, Pa. Refrigerator. No. 1,048,800; Dec. 31; Gaz. vol. 185; p. 1175.
Bossé, Adolphe E., Pittsburgh, Pa., assignor to Acme Refrigerating Company. Ammonia-generator. No. 1,014,040; Jan. 9; Sp. p. 2135; Gaz. vol. 174; p. 356.
Bossen, Jens, *et al.* (See Gjorup and Petersen, assignors.)
Bossen, Peter E., *et al.* (See Gjorup and Petersen, assignors.)
Bosserman, Joseph F., Staunton, Va. Ratchet-wrench. No. 1,029,271; June 11; Sp. p. 2595; Gaz. vol. 179; p. 441.

Alphabetical list of patentees—Continued.

Bossert, Albert T., assignor to Smith & Sons Manufacturing Company, Kansas City, Mo. Controlling means for dumping-wagons. No. 1,033,226; July 23; Gaz. vol. 180; p. 940.
Bossert, Albert T., assignor of one-half to Smith & Sons Manufacturing Company, Kansas City, Mo. Generator of hydraulic power for presses, &c. No. 1,038,524; Sept. 17; Gaz. vol. 182; p. 521.
Bossert, Charles P., assignor to Pfister & Vogel Leather Co., Milwaukee, Wis. Drying process and apparatus. No. 1,046,254; Dec. 3; Gaz. vol. 185; p. 159.
Bossert, Thomas J., Hollywood, Cal. Toilet-case. No. 1,035,075; Aug. 6; Gaz. vol. 181; p. 224.
Bosshardt, Henry, Sr., West Hoboken, N. J. Performing operations incidental to machine-embroidery. No. 1,030,159; June 18; Sp. p. 4533; Gaz. vol. 179; p. 783.
Bost, William D. A., assignor to International Refrigerating Insulator Syndicate Limited, Paisley, Scotland. Manufacture of heat-insulating compounds. No. 1,044,126; Nov. 12; Gaz. vol. 184; p. 409.
Bost, William H., *et al.* (See Jernigan, Lee H., assignor.)
Bostaph, Harvey P., Windsor, Ontario, Canada. Explosive. No. 1,038,275; Sept. 10; Gaz. vol. 182; p. 402.
Bostater, Herbert L., Chicago, Ill. Clutch for speed-regulators. No. 1,018,476; Feb. 27; Sp. p. 4956; Gaz. vol. 175; p. 876.
Bostock, Thomas, assignor to F. F. Field, Brockton, Mass. Machine for pressing heel-lifts, heels, &c. No. 1,018,549; Feb. 27; Sp. p. 5191; Gaz. vol. 175; p. 902.
Boston Automatic Machine Company. (See Morgan, Gerry A., assignor.)
Boston Machine Works Company. (See Barna, Joseph W., assignor.)
Boston Machine Works Company. (See Illingworth, Harry I., assignor.)
Boston Machine Works Company. (See Marshall, Charles S., assignor.)
Boston Machine Works Company. (See Neely, William A., assignor.)
Boston Machinery Company. (See Petersen, Anker, assignor.)
Boston Talking Machine Company. (See Millet, Josiah B., assignor.)
Boston Talking Machine Company. (See Pumphrey, Walter H., assignor.)
Bostrom, Ernst A., Atlanta, Ga. Engine-starter. No. 1,032,584; July 16; Gaz. vol. 180; p. 682.
Bostwick, John R., Clifton Springs, N. Y. Sanitary milk-can. No. 1,022,819; Apr. 9; Sp. p. 2289; Gaz. vol. 177; p. 391.
Bostwick, Seymour A., Roxbury, assignor to P. G. H. Bennet, Boston, Mass. Cutting and punching machine. No. 1,026,072; May 14; Sp. p. 2173; Gaz. vol. 178; p. 367.
Boswell, David A. (See Boswell, George G. F., assignor.)
Boswell, Francis G., Washington, D. C. Electro post-marking-machine. No. 1,024,552; Apr. 30; Sp. p. 6047; Gaz. vol. 177; p. 1074.
Boswell, George G. F., assignor of one-half to J. L. Peetz, Indianapolis, Ind. Starter for internal-combustion engines. No. 1,022,820; Apr. 9; Sp. p. 2291; Gaz. vol. 177; p. 391.
Boswell, George G. F., assignor of one-fourth to D. A. Boswell, Indianapolis, Ind. Coin-controlled lock. No. 1,029,417; June 11; Sp. p. 2943; Gaz. vol. 179; p. 492.
Boswell, George G. F., assignor of one-fourth to D. A. Boswell, Indianapolis, Ind. Coin-controlled lock. No. 1,031,833; July 9; Gaz. vol. 180; p. 384.
Boswell, George G. F., assignor of one-half to R. W. Boswell, Indianapolis, Ind. Coin-controlled lock. No. 1,039,090; Sept. 24; Gaz. vol. 182; p. 731.
Boswell, Ralph W. (See Boswell, George G. F., assignor.)
Bosworth, George A., Lincoln, Nebr. Auxiliary air-pump for locomotive-engines. No. 1,036,179; Aug. 20; Gaz. vol. 181; p. 672.
Bosworth, Percy B., assignor to The Firestone Tire & Rubber Company, Akron, Ohio. Automobile wheel-rim. No. 1,031,235; July 2; Gaz. vol. 180; p. 136.
Bosworth, Percy B., assignor to The Firestone Tire & Rubber Company, Akron, Ohio. Vehicle wheel-rim. No. 1,031,236; July 2; Gaz. vol. 180; p. 137.
Bosworth, Percy B., assignor to The Firestone Tire & Rubber Company, Akron, Ohio. Quick-demountable block-tire. No. 1,043,061; Nov. 5; Gaz. vol. 184; p. 4.
Bosworth, William O., Northbridge, Mass. Thread-guide for spinning-frames. No. 1,025,365; May 7; Sp. p. 577; Gaz. vol. 178; p. 90.
Both, Tonjes A. C., assignor to I. S. Rosenheim, New York, N. Y. Mechanical movement and electric-light socket. No. 1,014,443; Jan. 9; Sp. p. 2998; Gaz. vol. 174; p. 497.
Both, Tonjes A. C., assignor to I. S. Rosenheim, New York, N. Y. Mechanical movement. No. 1,015,869; Jan. 30; Sp. p. 6107; Gaz. vol. 174; p. 1065.
Both, Tonjes A. C., assignor to I. S. Rosenheim, New York, N. Y. Socket-shell. No. 1,024,671; Apr. 30; Sp. p. 6324; Gaz. vol. 177; p. 1114.
Both, Tonjes A. C., assignor to I. S. Rosenheim, New York, N. Y. Electric-light socket. No. 1,036,551; Aug. 27; Gaz. vol. 181; p. 834.
Both, Tonjes A. C., New York, N. Y., assignor, by mesne assignments, to The Zee Socket & Mfg. Co., Boston, Mass. Mechanical movement and electric-light socket. No. 1,029,044; June 11; Sp. p. 2124; Gaz. vol. 179; p. 365.
Both, Tonjes A. C., New York, N. Y., assignor, by mesne assignments, to The Zee Socket and Mfg. Co., Boston, Mass. Electric-light socket. No. 1,040,131; Oct. 1; Gaz. vol. 183; p. 154.
Both, Tonjes A. C., New York, N. Y., assignor, by mesne assignments, to The Zee Socket and Mfg. Co., Boston, Mass. Mechanical movement and electric-light socket. No. 1,040,132; Oct. 1; Gaz. vol. 183; p. 154.
Both, Tonjes A. C., Malden, assignor, by mesne assignments, to The Zee Socket & Mfg. Co., Boston, Mass. Mechanical movement and electric-light socket. No. 1,046,410; Dec. 3; Gaz. vol. 185; p. 214.
Both, Tonjes A. C., Malden, assignor, by mesne assignments, to The Zee Socket & Mfg. Co., Boston, Mass. Mechanical movement and electric-light socket. No. 1,046,411; Dec. 3; Gaz. vol. 185; p. 215.
Botsch, Emil. (See Botsch, Jakob and E.)
Botsch, Jakob and E., Rappenau, Baden, Germany. Steering device. No. 1,027,981; May 28; Sp. p. 6349; Gaz. vol. 178; p. 1090.
Botsford, Eugene N., Platteville, Wis. Derailment air-brake. No. 1,019,751; Mar. 12; Sp. p. 1618; Gaz. vol. 176; p. 282.
Botsford, Eugene N., Platteville, Wis. Combined step and extension ladder. No. 1,026,147; May 14; Sp. p. 2333; Gaz. vol. 178; p. 394.
Bott, William L., and O. M. Davis, Star City, Ind. Road-drag. No. 1,019,417; Mar. 5; Sp. p. 963; Gaz. vol. 176; p. 140.
Böttcher, Anton F. C., and L. W. Lehmann, assignors to Firm of H. Maihak, Hamburg, Germany. Counting apparatus for the indicated output of piston-engines. No. 1,039,250; Sept. 24; Gaz. vol. 182; p. 789.
Botteese, Shearman, Washington, D. C. Truck. No. 1,023,617; Apr. 16; Sp. p. 3960; Gaz. vol. 177; p. 696.
Bottemiller, Arthur A., Ridgefield, Wash. Phonograph-record cabinet. No. 1,029,969; June 18; Sp. p. 4151; Gaz. vol. 179; p. 719.
Bottlander, Jacob, and J. Paffrath, Ford City, Pa. Moving-picture apparatus. No. 1,036,429; Aug. 20; Gaz. vol. 181; p. 760.
Bottle, Edward K., assignor to The Carter-Crume Company, Limited, Niagara Falls, N. Y. Manifolding sales-book. No. 1,024,496; Apr. 30; Sp. p. 5891; Gaz. vol. 177; p. 1053.
Bottle, Edward K., assignor to The Carter-Crume Company, Niagara Falls, N. Y. Manifolding sales-book. No. 1,040,498; Oct. 8; Gaz. vol. 183; p. 308.
Bottle, Edward K., Elmira, N. Y., assignor to American Sales Book Company, Limited, Toronto, Canada. Sales-book. No. 1,042,637; Oct. 29; Gaz. vol. 183; p. 1133.
Bottle, Edward K., assignor to The Carter-Crume Company, Limited, Niagara Falls, N. Y. Manifolding sales-book. No. 1,048,028; Dec. 24; Gaz. vol. 185; p. 872.
Bottle, Edward K., Elmira, assignor to American Sales Book Company, Limited, Toronto, Canada. Manifolding sales-book. No. 1,048,029; Dec. 24; Gaz. vol. 185; p. 872.
Bottlers Machinery Manufacturing Company. (See Bastian, Charles L., assignor.)
Bottom, Hartwell H., Knifley, assignor of one-third to L. R. Chelf and one-third to C. E. Walker, Watson, Ky. Checking device. No. 1,048,130; Dec. 24; Gaz. vol. 185; p. 907.
Bottum, George L., Chicago, Ill. Pressure controlling and relief valve for hot-water-circulating systems. No. 1,042,387; Oct. 29; Gaz. vol. 183; p. 1043.
Boucher, Amos. (See Betts and Boucher.)
Boucher, Creed H., U. S. Navy. Variable-speed gearing. No. 1,035,076; Aug. 6; Gaz. vol. 181; p. 224.
Boucher, Creed H., U. S. Navy. Variable-speed gearing. No. 1,047,735; Dec. 17; Gaz. vol. 185; p. 746.
Boucher, Philias J., assignor to Standard Optical Company, Geneva, N. Y. Spectacle-frame. No. 1,022,653; Apr. 9; Sp. p. 1907; Gaz. vol. 177; p. 333.
Boudrot, Reamie S., Newton, Mass. Drawer-knob. No. 1,016,392; Feb. 6; Sp. p. 345; Gaz. vol. 175; p. 55.
Bouery, Pierre, Weaverville, Cal. Mining-sluice. No. 1,036,430; Aug. 20; Gaz. vol. 181; p. 760.
Boughton, Fred W., Boston, Mass. Optional full-automatic gate. No. 1,016,203; Jan. 30; Sp. p. 6799; Gaz. vol. 174; p. 1181.
Bouhan, Cornelius L., Cameron, Mo. Nut-lock. No. 1,016,542; Feb. 6; Sp. p. 729; Gaz. vol. 175; p. 107.
Bould, Iram W., Pittsburgh, Pa. Driving and steering mechanism for power-operated vehicles. No. 1,023,804; Apr. 23; Sp. p. 4317; Gaz. vol. 177; p. 782.
Boulter, Arthur H. (See Steele, Boulter, and Hargreaves.)
Boulter, Royal L., Los Angeles, Cal. Safety-razor. No. 1,035,308; Aug. 13; Gaz. vol. 181; p. 336.
Bounds, George T., Hampton, Ark. Agricultural implement. No. 1,026,731; May 21; Sp. p. 3614; Gaz. vol. 178; p. 628.
Bounds, Thomas C., Wahalak, Miss. Dispensing apparatus. No. 1,014,115; Jan. 9; Sp. p. 2295; Gaz. vol. 174; p. 382.

Alphabetical list of patentees—Continued.

Bounimovitsch, Towy J., Wilna, Russia. Winding mechanism for spring-motors. No. 1,040,271; Oct. 8; Gaz. vol. 183; p. 230.
Bourcart, Jean J., Kolmar, Germany. Aeroplane or flying-machine. No. 1,019,418; Mar. 5; Sp. p. 964; Gaz. vol. 176; p. 140.
Bourck, François E., Paris, France. Apparatus for counting money. No. 1,020,397; Mar. 19; Sp. p. 2939; Gaz. vol. 176; p. 534.
Bourdelles, Emile, Paris, France. Stabilizing aeroplanes. No. 1,030,968; July 2; Gaz. vol. 180; p. 41.
Bourgeois, Casper H., Chicago, Ill. Candle-holder. No. 1,017,375; Feb. 13; Sp. p. 2529; Gaz. vol. 175; p. 428.
Bourgin, Charles N., Newark, N. J. Moving-picture toy. No. 1,014,365; Jan. 9; Sp. p. 2851; Gaz. vol. 174; p. 471.
Bourke, Alexander M., Maitland, New South Wales, Australia. Insulator. No. 1,020,880; Mar. 19; Sp. p. 3991; Gaz. vol. 176; p. 695.
Bourlon, Jules F., Everett, Mass. Rotary internal-combustion engine. No. 1,023,195; Apr. 16; Sp. p. 3123; Gaz. vol. 177; p. 558.
Bourne, Clifford N., Syracuse, N. Y. Making a liquid beverage. No. 1,042,074; Oct. 22; Gaz. vol. 183; p. 912.
Bourne, Edward J., Spokane, Wash. Wrench. No. 1,034,341; July 30; Gaz. vol. 180; p. 1344.
Bourne, George H., Toronto, Ontario, Canada. Floor-polisher or the like. No. 1,045,368; Nov. 26; Gaz. vol. 184; p. 898.
Bourne, John A., *et al.* (See Hall, Frank M., assignor.)
Bourne, Theodore F., Montclair, N. J. Shield for automobiles. No. 1,014,366; Jan. 9; Sp. p. 2852; Gaz. vol. 174; p. 471.
Bourne, Theodore F., Montclair, N. J. Carbureter. No. 1,045.251; Nov. 26; Gaz. vol. 184; p. 858.
Bourquin, Gustave L., Merchantville, and R. Loeb, Camden, N. J., assignors to said Loeb. Driving and stop mechanism for embroidering-machines. No. 1,034,759; Aug. 6; Gaz. vol. 181; p. 120.
Bourquin, Numa. (See Willson and Bourquin.)
Bourquin, Numa, assignor, by mesne assignments, to T. A. Willson & Company, Reading, Pa. Spectacles. No. 1,031,684; July 9; Gaz. vol. 180; p. 332.
Bouska, Joseph. (See Marchand, Alexis, assignor.)
Bouska, Joseph, assignor to Superior Tree Protector Manufacturing Co., Bridgeport, Wash. Tree-protector. No. 1,039,018; Sept. 17; Gaz. vol. 182; p. 691.
Bouslog, William H. (See Lister, Levi H., assignor.)
Boutell, Daniel, Buffalo, N. Y. Soap-holder. No. 1,034,187; July 30; Gaz. vol. 180; p. 1291.
Boutell Manufacturing Co. (See Boutell, William H., assignor.)
Boutell, William H., assignor to Boutell Manufacturing Co., Rochester, N. Y. Fruit-handling machine. No. 1,026,299; May 14; Sp. p. 2660; Gaz. vol. 178; p. 446.
Bouton, Georges. (See Dion and Bouton.)
Boutte, Edmond G., St. Martinville, La., assignor to Bennett Oil Company, Phoenix, Ariz. Well-packing. No. 1,034,963; Aug. 6; Gaz. vol. 181; p. 188.
Boutte, John G., Raceland, La. Music-turner for pianos. No. 1,037,723; Sept. 3; Gaz. vol. 182; p. 183.
Boutwell, Ernest A., *et al.* (See Wakefield, Ralph A., assignor.)
Boutwell, Randolph A., Troy, Ala. Vehicle-brake. No. 1,034,188; July 30; Gaz. vol. 180; p. 1291.
Boutwell, William R., Norfolk, Va. Propeller. No. 1,031,415; July 2; Gaz. vol. 180; p. 199.
Bouvier, Henri. (See Moyet and Bouvier.)
Bovee, Ransom Y., assignor to Hydro Engine, Power and Irrigation Company, Denver, Colo. Duplex hydraulic ram. No. 1,038,719; Sept. 17; Gaz. vol. 182; p. 590.
Bovey, Peter, Oregon, Ill. Oiler for windmills. No. 1,037,420; Sept. 3; Gaz. vol. 182; p. 82.
Bow, Lafayette T., assignor of one-half to D. B. Vernon, Ardmore, Okla. Casket or coffin. No. 1,043,664; Nov. 5; Gaz. vol. 184; p. 219.
Bowcock, James B., Kirksville, Mo. Ice-cutting machine. No. 1,013,733; Jan. 2; Sp. p. 1418; Gaz. vol. 174; p. 224.
Bowden, Alanson W., Greenville, Me. Safety gas-burner. No. 1,034,866; Aug. 6; Gaz. vol. 181; p. 158.
Bowden, Junius A., Los Angeles, Cal. Tire. No. 1,031,979; July 9; Gaz. vol. 180; p. 433.
Bowden, Junius A., Los Angeles, Cal. Tread for tires No. 1,037.116; Aug. 27; Gaz. vol. 181; p. 1023.
Bowden, William, McHenry, Miss. Wrench. No. 1,014,563; Jan. 9; Sp. p. 3212; Gaz. vol. 174; p. 535.
Bowden, William, McHenry, assignor of one-half to T. A. Gause, Howison, Miss. Universal boring apparatus. No. 1,046,956; Dec. 10; Gaz. vol. 185; p. 441.
Bowdle, George F., and J. F. O'Brien, Piqua, Ohio. Sand cutting and riddling machine. No. 1,033,378; July 23; Gaz. vol. 180; p. 991.
Bowdle, Isaiah, assignor to F. Crawford, Pasadena, Cal. Device for use in laying conductors. No. 1,019,419; Mar. 5; Sp. p. 965; Gaz. vol. 176; p. 140.
Bowen, Benjamin F., Wayne, W. Va. Securing appliance for window-sash. No. 1,037,117; Aug. 27; Gaz. vol. 181; p. 1023.
Bowen, Charles A., Riverview, assignor of one-half to F. Bickerton, Elrama, Pa. Electric trap. No. 1,024,969; Apr. 30; Sp. p. 6936; Gaz. vol. 177; p. 1219.
Bowen, Clinton, Fostoria, Ohio. Post-anchor. No. 1,015,611; Jan. 23; Sp. p. 5558; Gaz. vol. 174; p. 952.
Bowen, Ernest W., London, England. Valve for internal-combustion engines. No. 1,040,612; Oct. 8; Gaz. vol. 183; p. 350.
Bowen, Eugene F. (See Allen, Fred R., assignor.)
Bowen, George B., Warkworth, Ontario, Canada. Rotary valve for multiple-cylinder engines. No. 1,041,957; Oct. 22; Gaz. vol. 183; p. 873.
Bowen, George W., Auburn, N. Y. Lubricant-cup. No. 1,024,672; Apr. 30; Sp. p. 6327; Gaz. vol. 177; p. 1115.
Bowen, George W., Auburn, N. Y. Grease-cup. No. 1,024,673; Apr. 30; Sp. p. 6328; Gaz. vol. 177; p. 1115.
Bowen, George W., Auburn, N. Y. Cap for grease and lubricant cups. No. 1,040,266; Oct. 8; Gaz. vol. 183; p. 228.
Bowen, George W., Auburn, N. Y. Grease-cup. No. 1,046,051; Dec. 3; Gaz. vol. 185; p. 86.
Bowen, George W., Auburn, N. Y. Lubricant-cup. No. 1,047,736; Dec. 17; Gaz. vol. 185; p. 746.
Bowen, Glenna E., Milwaukee, Wis., assignor, by mesne assignments, to Busch-Sulzer Brothers Diesel Engine Company. Internal-combustion engine. No. 1,044,736; Nov. 19; Gaz. vol. 184; p. 650.
Bowen, James, Linden, Mich. Bag-filling device. No. 1,014,998; Jan. 16; Sp. p. 4267; Gaz. vol. 174; p. 716;
Bowen, James, assignor to Bond Foundry & Machine Company, Manheim, Pa. Friction-clutch. No. 1,040,866; Oct. 8; Gaz. vol. 183; p. 434.
Bowen, Leslie G., Kansas City, Mo. Outlet-box hanger. No. 1,042,881; Oct. 29; Gaz. vol. 183; p. 1217.
Bowen, Russell H., Palmyra, N. J., assignor to The American Pulley Company, Philadelphia, Pa. Pulley. No. 1,027,639; May 28; Sp. p. 5575; Gaz. vol. 178; p. 974.
Bowen, Russell H., Palmyra, N. J., assignor to The American Pulley Company, Philadelphia, Pa. Pulley. No. 1,031,907; July 9; Gaz. vol. 180; p. 409.
Bowen, Russell H., Palmyra, N. J., assignor to The American Pulley Company, Philadelphia, Pa. Pulley. No. 1,044,340; Nov. 12; Gaz. vol. 184; p. 483.
Bowen, Russell H., Palmyra, N. J., assignor to The American Pulley Company, Philadelphia, Pa. Apparatus for crowning pulleys. No. 1,047,737; Dec. 17; Gaz. vol. 185; p. 746.
Bowen, Russell H., Palmyra, N. J., and A. Walker, assignors to The American Pulley Company, Philadelphia, Pa. Pulley. No. 1,016,666; Feb. 6; Sp. p. 997; Gaz. vol. 175; p. 150.
Bowen, William D. D., Fulton, Miss. Churn. No. 1,021,966; Apr. 2; Sp. p. 465; Gaz. vol. 177; p. 74.
Bowen, William F., Melrose Highlands, Mass. Placket-fastener. No. 1,043,753; Nov. 5; Gaz. vol. 184; p. 249.
Bower, Abram L., Boyertown, Pa. Truck construction and insulation. No. 1,036,552; Aug. 27; Gaz. vol. 181; p. 834.
Bower, Béla, and H. Spero, Chicago, Ill. Curtain-fixture. No. 1,025,116; May 7; Sp. p. 3; Gaz. vol. 178; p. 3.
Bower, Edwin J. (See Thurber, George E., assignor.)
Bower, George G., Bainbridge, Ga. Propeller. No. 1,023,501; Apr. 16; Sp. p. 3719; Gaz. vol. 177; p. 658.
Bower, George P., Buffalo, N. Y. Valve. No. 1,015,132; Jan. 16; Sp. p. 4523; Gaz. vol. 174; p. 762.
Bower, Hiram A. (See Van Housen and Bower.)
Bower, Joseph. (See Shaw, Bower, and Wilson.)
Bower, Samuel M., Chicago, Ill. Traction-wheel. No. 1,038,835; Sept. 17; Gaz. vol. 182; p. 631.
Bowers, Albert J., Worcester, Mass. Making multifocal lenses. No. 1,041,235; Oct. 15; Gaz. vol. 183; p. 593.
Bowers, Bose B., Macon, Ga. Combination grate and stove. No. 1,032,270; July 9; Gaz. vol. 180; p. 532.
Bowers, George. (See Hines and Bowers.)
Bowers, George, San Francisco, Cal. Revolving screen. No. 1,043,196; Nov. 5; Gaz. vol. 184; p. 54.
Bowers, Henry A., Jamestown, N. Y. Derrick. No. 1,030,640; June 25; Sp. p. 5809; Gaz. vol. 179; p. 996.
Bowers, Hunter R., Herminie, Pa. Railing or guard for pit-cages. No. 1,044,982; Nov. 19; Gaz. vol. 184; p. 735.
Bowers, Lewis C., Boise, Idaho. Nozzle. (Reissue.) No. 13,366; Feb. 6; Sp. p. 1530; Gaz. vol. 175; p. 237.
Bowers, William A., Milwaukee, Wis. Pipe-hanger. No. 1,047,159; Dec. 17; Gaz. vol. 185; p. 540.
Bowers, William C. (See Simmons, Turner W., assignor.)
Bowers, Willie E., Tuscaloosa, Ala. Car-brake. No. 1,037,587; Sept. 3; Gaz. vol. 182; p. 138.
Bowersock, Wilber E., assignor to I. Hill, Lawrence, Kans. Key. No. 1,029,663; June 18; Sp. p. 3450; Gaz. vol. 179; p. 613.
Bowery, Fred J. W., *et al.* (See Rose, Max C., assignor.)
Bowes, Robert H., *et al.* (See Power, Michael, assignor.)
Bowie, James, Edinburgh, Scotland. Propeller for aerial vessels. No. 1,036,431; Aug. 20; Gaz. vol. 181; p. 760.
Bowie, Robert E., *et al.* (See Burtnett, Everett R., assignor.)
Bowie, William, Mansfield, Ohio. Poultry drinking-fountain. No. 1,023,240; Apr. 16; Sp. p. 3201; Gaz. vol. 177; p. 573.
Bowler, Michael J., *et al.* (See Paul, William G., assignor.)

Alphabetical list of patentees—Continued.

Bowles, Edward J. (See Metz and Bowles.)
Bowles, George B., Forest Gate, London, England. Brake apparatus particularly applicable to railway-wagon brakes. No. 1,017,504; Feb. 13; Sp. p. 2810; Gaz. vol. 175; p. 474.
Bowles, George E. (See Hendricks and Bowles.)
Bowles, Willie M., and C. O. Allen, Shawnee, Okla. Rheostat. No. 1,048,645; Dec. 31; Gaz. vol. 185; p. 1120.
Bowles, Willie M., and C. O. Allen, Shawnee, Okla. Electrical melting and soldering apparatus. No. 1,049,043; Dec. 31; Gaz. vol. 185; p. 1259.
Bowling, Joseph R. (See Ingoldsby and Bowling.)
Bowling, Joseph R., assignor to The Ingoldsby Automatic Car Company, St. Louis, Mo. Dump-car. No. 1,026,785; May 21; Sp. p. 3732; Gaz. vol. 178; p. 646.
Bowling, Joseph R., assignor to The Ingoldsby Automatic Car Company, St. Louis, Mo. Dump-car. No. 1,027,809; May 28; Sp. p. 5935; Gaz. vol. 178; p. 1031.
Bowling, Lilian, Fairview, Okla. Go-cart handle. No. 1,042,193; Oct. 22; Gaz. vol. 183; p. 951.
Bowlus, Warren L., Springfield, Ill. Marking or canceling machine. No. 1,042,759; Oct. 29; Gaz. vol. 183; p. 1175.
Bowly, Franklin H., assignor of one-half to M. Webb, New York, N. Y. Nipple. No. 1,044,737; Nov. 19; Gaz. vol. 184; p. 651.
Bowman, A. B. (See Finch, Adolph, assignor.)
Bowman, A. B. (See Hamilton, William G., assignor.)
Bowman, Benjamin F., Knox City, Tex. Counterbalance for pump-rods. No. 1,035,309; Aug. 13; Gaz. vol. 181; p. 336.
Bowman, Elhanan, Elmwood, Ontario, assignor to C. R. Miller, Berlin, Canada. Magneto-bell ringer. No. 1,034,964; Aug. 6; Gaz. vol. 181; p. 189.
Bowman, Frederick G. (See Bowman, William D. and F. G.)
Bowman, Frederick V., and W. S. Hunn, New Haven, Conn. Package for gas-mantles. No. 1,039,486; Sept. 24; Gaz. vol. 182; p. 870.
Bowman, George S., Lebanon, Pa. Shipping-package. No. 1,035,151; Aug. 13; Gaz. vol. 181; p. 280.
Bowman, Gustaf R., Rockford, Ill. Trousers-hanger. No. 1,022,295; Apr. 2; Sp. p. 1136; Gaz. vol. 177; p. 181.
Bowman, Henry W., Barbourville, Ky. Vending-machine. No. 1,028,096; June 4; Sp. p. 8; Gaz. vol. 179; p. 4.
Bowman, Henry W., Barbourville, Ky. Collapsible drinking-cup. No. 1,049,199; Dec. 31; Gaz. vol. 185; p. 1311.
Bowman, Ira W., Vancouver, Wash. Foldable ironing-board. No. 1,034,189; July 30; Gaz. vol. 180; p. 1291.
Bowman, Isaac. (See McIntee and Bowman.)
Bowman & Rodabaugh. (See Kindleberger, Jefferson, assignor.)
Bowman, William D. and F. G., Glasgow, Scotland. Time-check apparatus. No. 1,015,287; Jan. 23; Sp. p. 4844; Gaz. vol. 174; p. 840.
Bown, David E., Pittsburgh, Pa. Fuse-plug. No. 1,042,388; Oct. 29; Gaz. vol. 183; p. 1043.
Bown, Henry E., Columbus, Ohio. Aseptic kitchen-cabinet. No. 1,036,066; Aug. 20; Gaz. vol. 181; p. 631.
Bowne, Emma R. (See Murray, Archibald B., assignor.)
Bowron, Charles W., Oshkosh, Wis. Voting-machine. No. 1,043,292; Nov. 5; Gaz. vol. 184; p. 87.
Bowron, John, Roanoke, Va. Vehicle-support. No. 1,023,618; Apr. 16; Sp. p. 3963; Gaz. vol. 177; p. 696.
Bowser, Allen A., assignor to S. F. Bowser & Company, Inc., Fort Wayne, Ind. Lubricator-filling vessel. No. 1,015,470; Jan. 23; Sp. p. 5267; Gaz. vol. 174; p. 902.
Bowser, Allen A., assignor to S. F. Bowser & Company, Incorporated, Fort Wayne, Ind. Faucet. No. 1,020,076; Mar. 12; Sp. p. 2270; Gaz. vol. 176; p. 391.
Bowser, Allen A., assignor to S. F. Bowser & Co., Inc., Fort Wayne, Ind. Self-measuring device. No. 1,046,052; Dec. 3; Gaz. vol. 185; p. 87.
Bowser, Allen A., assignor to S. F. Bowser & Company, Incorporated, Fort Wayne, Ind. Measuring-pump. No. 1,046,053; Dec. 3; Gaz. vol. 185; p. 87.
Bowser, Anthony C., Murphysboro, Ill. Animal-trap. No. 1,015,471; Jan. 23; Sp. p. 5269; Gaz. vol. 174; p. 903.
Bowser, Augustus, Fort Wayne, Ind., assignor to The Geyser Oil Tank Company. Measuring apparatus for liquids. No. 1,047,492; Dec. 17; Gaz. vol. 185; p. 659.
Bowser, Harry M., assignor to S. F. Bowser & Co., Incorporated, Fort Wayne, Ind. Fill and vent fitting device. No. 1,020,077; Mar. 12; Sp. p. 2274; Gaz. vol. 176; p. 391.
Bowser, James Y., Kittanning, Pa. Whip-socket. No. 1,038,276; Sept. 10; Gaz. vol. 182; p. 402.
Bowser, Leslie E., Los Angeles, Cal. Cotton-chopper. No. 1,027,687; May 28; Sp. p. 5688; Gaz. vol. 178; p. 991.
Bowyer, James E. (See Casto, Charles W., assignor.)
Box, William A., Denver, Colo. Roll for crushing-machines. No. 1,036,067; Aug. 20; Gaz. vol. 181; p. 631.
Boyce, Arthur E., Monterey, Cal. Brick-kiln. No. 1,041,006; Oct. 15; Gaz. vol. 183; p. 516.
Boyce, Clarence J., New Haven, Conn. Cutter for forming irregular surfaces. No. 1,031,318; July 2; Gaz. vol. 180; p. 166.
Boyce, John E., New York, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Door-lock. No. 1,047,160; Dec. 17; Gaz. vol. 185; p. 540.
Boyce, Lemuel A., Drumore, Pa. Gage. No. 1,031,517; July 2; Gaz. vol. 180; p. 232.
Boyce, William A., and S. Fisher, Gas City, Ind. Cement reservoir. No. 1,039,091; Sept. 24; Gaz. vol. 182; p. 731.
Boyce, William L., Eulabil, near Casino, New South Wales, Australia. Inclosure or building for the milking of cows and the branding of cattle. No. 1,043,293; Nov. 5; Gaz. vol. 184; p. 88.
Boyce, William M. (See Anderson, Boyce, and Hollopeter.)
Boyce, William S., Chicago, Ill. Metallic railway-tie. No. 1,029,970; June 18; Sp. p. 4152; Gaz. vol. 179; p. 719.
Boyd, Albert H., Denver, Colo., assignor of one-half to T. M. Hamilton, Helena, Mont. Fuse-cutting machine. No. 1,014,862; Jan. 16; Sp. p. 3961; Gaz. vol. 174; p. 670.
Boyd, Alexander, Elizabeth, N. J., assignor to The Singer Manufacturing Company. Sewing-machine pull-off. No. 1,021,399; Mar. 26; Sp. p. 5109; Gaz. vol. 176; p. 924.
Boyd, Bertron K. (See Beehler, William, assignor.)
Boyd, Byron H., Louisville, Ky. Garment support or holder. No. 1,013,474; Jan. 2; Sp. p. 840; Gaz. vol. 174; p. 134.
Boyd, David C., administrator. (See Boyd, William S.)
Boyd, J. H. (See Wilkes, Hardy T., assignor.)
Boyd, James D., Arrochar, N. Y. Egg-hatching incubator. No. 1,015,417; Jan. 23; Sp. p. 5146; Gaz. vol. 174; p. 884.
Boyd, John E., Dawson, N. Mex. Magazine-pipe. No. 1,018,293; Feb. 20; Sp. p. 4556; Gaz. vol. 175; p. 782.
Boyd, John W., assignor of one-half to H. O. Kremer, Mishawaka, Ind. Fishing-rod support. No. 1,013,734; Jan. 2; Sp. p. 1420; Gaz. vol. 174; p. 224.
Boyd, Joseph W. (See Sweet, Eli, assignor.)
Boyd, Moody, Louisville, Ky. Paper-cutter. No. 1,014,041; Jan. 9; Sp. p. 2136; Gaz. vol. 174; p. 357.
Boyd, Robert L., Plainfield, N. J. Printing device. No. 1,037,198; Sept. 3; Gaz. vol. 182; p. 7.
Boyd, Thomas A., Glasgow, Scotland. Spinning and twisting frame for fibrous materials. No. 1,047,123; Dec. 10; Gaz. vol. 185; p. 498.
Boyd, Thomas A., Glasgow, Scotland. Stop-motion device for twisting-frames. No. 1,047,124; Dec. 10; Gaz. vol. 185; p. 498.
Boyd, William J., Sr., McLeansboro, Ill. Mold. No. 1,043,665; Nov. 5; Gaz. vol. 184; p. 219.
Boyd, William S., deceased, Los Angeles, Cal.; D. C. Boyd, administrator. Tractor. No. 1,021,911; Apr. 2; Sp. p. 334; Gaz. vol. 177; p. 56.
Boye, James H., assignor to J. L. Flannery, Chicago, Ill. Faucet. No. 1,024,175; Apr. 23; Sp. p. 5177; Gaz. vol. 177; p. 909.
Boye, James H., assignor to Boye Needle Company, Chicago, Ill. Toilet-case. No. 1,033,526; July 23; Gaz. vol. 180; p. 1038.
Boye, James H., assignor to The Boye Needle Company, Chicago, Ill. Knife-sharpener. No. 1,038,484; Sept. 10; Gaz. vol. 182; p. 474.
Boye, James H., assignor to The Boye Needle Company, Chicago, Ill. Fastener. No. 1,046,728; Dec. 10; Gaz. vol. 185; p. 365.
Boye Needle Company, The. (See Boye, James H., assignor.)
Boyens, William, Brooklyn, N. Y. Go-cart. No. 1,024,176; Apr. 23; Sp. p. 5179; Gaz. vol. 177; p. 910.
Boyer, Aaron, Swissvale, Pa. Hose-coupling. No. 1,021,127; Mar. 26; Sp. p. 4499; Gaz. vol. 176; p. 830.
Boyer, Herman H., Pensacola, Fla. Lag. No. 1,036,432; Aug. 20; Gaz. vol. 181; p. 760.
Boyer, Jesse I., assignor to Reading Iron Company, Reading, Pa. Sugar-mill. No. 1,044,127; Nov. 12; Gaz. vol. 184; p. 409.
Boyer, Joseph, St. Louis, Mo., assignor to Chicago Pneumatic Tool Company. Fluid-pressure compression or holding device. No. 1,013,370; Jan. 2; Sp. p. 615; Gaz. vol. 174; p. 98.
Boyer, Joseph, Detroit, Mich., assignor to Chicago Pneumatic Tool Company, Chicago, Ill. Pneumatic rivet-holder. No. 1,013,371; Jan. 2; Sp. p. 619; Gaz. vol. 174; p. 99.
Boyer, Oram A., Milwaukee, Wis. Rotary internal-combustion engine. No. 1,025,117; May 7; Sp. p. 5; Gaz. vol. 178; p. 3.
Boyer, Warren L., Kingston, N. Y. Protecting device for electric-railway plows. No. 1,037,421; Sept. 3; Gaz. vol. 182; p. 82.
Boyer, William M., Johnstown, Pa. Trolley-wheel. No. 1,024,970; Apr. 30; Sp. p. 6937; Gaz. vol. 177; p. 1219.
Boyland, Clarence J., Indianapolis, Ind. Insulator-pin. No. 1,022,121; Apr. 2; Sp. p. 780; Gaz. vol. 177; p. 124.
Boyle, James C., Calgary, Alberta, Canada. System and apparatus for starting internal-combustion engines. No. 1,022,926; Apr. 9; Sp. p. 2506; Gaz. vol. 177; p. 427.
Boyle, Thomas F., Los Angeles, Cal. Tamper-handle clutch. No. 1,019,742; Mar. 5; Sp. p. 1587; Gaz. vol. 176; p. 247.

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Boyle, William G., *et al.* (See Anderson, James B., assignor.)
Boyler, Emanuel J. (See Greist and Boyler.)
Boyler, Emanuel J., New Haven, Conn., assignor to The Greist Manufacturing Company. Sewing-machine ruffler. No. 1,041,730; Oct. 22; Gaz. vol. 183; p. 794.
Boyler, Emanuel J., P. R. and H. M. Greist, New Haven, Conn. Buttonhole attachment for sewing-machines. No. 1,035,942; Aug. 20; Gaz. vol. 181; p. 589.
Boyler, Emanuel J., P. R. and H. M. Greist, assignors to The Greist Manufacturing Company, New Haven, Conn. Buttonhole attachment for sewing-machines. No. 1,030,276; June 25; Sp. p. 4821; Gaz. vol. 179; p. 863.
Boylston Manufacturing Company, The. (See Ballard, Harrie A., assignor.)
Boynton, Eben M., West Newbury, Mass. Railway freight-car. No. 1,042,527; Oct. 29; Gaz. vol. 183; p. 1094.
Boynton, George H., assignor to Pittsfield Spark Coil Company, Dalton, Mass. Switch for ignition systems. No. 1,017,948; Feb. 20; Sp. p. 3817; Gaz. vol. 175; p. 662.
Boynton, William, *et al.* (See Kerruish, Hudson B., assignor.)
Boyrie, Harry E. (See Tracy and Boyrie.)
Boyrie, Harry E., San Francisco, assignor of one-half to H. H. Tracy, Berkeley, Cal. Water-tube boiler. No. 1,044,624; Nov. 19; Gaz. vol. 184; p. 611.
Boys, Charles V., London, England. Examination, treatment, or the like of liquid films. No. 1,048,801; Dec. 31; Gaz. vol. 185; p. 1176.
Boyts, Porter & Co. (See Stoner, Cyrus M., assignor.)
Boyum, John S., Nashville, Tenn. Cradle for range-finders. No. 1,032,873; July 16; Gaz. vol. 180; p. 781.
Boyum, John S., Nashville, Tenn. Range-finder. No. 1,032,874; July 16; Gaz. vol. 180; p. 782.
Boyum, John S., Nashville, Tenn. Range-finder. No. 1,032,986; July 16; Gaz. vol. 180; p. 818.
Boyum, Peter E., Whalan, Minn. Can-cart. No. 1,029,045; June 11; Sp. p. 2126; Gaz. vol. 179; p. 366.
Bozarth, Frank D. (See Brown, Lewis W., assignor.)
Bozarth, Frank D., Williamsburg, Va. Reversing-gearing. No. 1,027,313; May 21; Sp. p. 4915; Gaz. vol. 178; p. 827.
Bozarth, Frank D., Williamsburg, assignor of one-half to L. W. Brown, Berkley, Va. Nut-lock. No. 1,029,339; June 11; Sp. p. 2768; Gaz. vol. 179; p. 466.
Bozarth, Louis W. (See Boling, Samuel M., assignor.)
Bozile, Charles, Manawa, Wis. Corn-sheller. No. 1,016,471; Feb. 6; Sp. p. 538; Gaz. vol. 175; p. 82.
Braam, Jacques P. de, Paris, France. Automatic railway signaling apparatus. No. 1,045,504; Nov. 26; Gaz. vol. 184; p. 946.
Brach, Leon S., New York, N. Y. Lock-nut. No. 1,021,235; Mar. 26; Sp. p. 4739; Gaz. vol. 176; p. 866.
Bracht, Joseph von. (See Miller, George G., assignor.)
Brack, Christian, Baltimore, Md. Combined pipe-vise and pipe-cutter. No. 1,046,255; Dec. 3; Gaz. vol. 185; p. 159.
Bracken, Howard W., assignor to Draper Company, Hopedale, Mass. Warp stop-motion for looms. No. 1,031,237; July 2; Gaz. vol. 180; p. 137.
Bracken, John W., Princeton, Fla. Log-unloader. No. 1,048,388; Dec 24; Gaz. vol. 185; p. 994.
Bräckerbohm, Friedrich G. F., Wilhelmsruh, near Reinickendorf, Germany. Mast for radiotelegraphy No. 1,034,760; Aug. 6; Gaz. vol. 181; p. 120.
Brackett, Frederick, Washington, D. C. Captive lookout for use on board ships. No. 1,017,200; Feb. 13; Sp. p. 2161; Gaz. vol. 175; p. 369.
Brackett, Frederick, Washington, D. C. Apparatus for testing flying-machines. No. 1,032,651; July 16; Gaz. vol. 180; p. 706.
Brackett, Frederick, Washington, D. C. Air-craft. No. 1,039,092; Sept. 24; Gaz. vol. 182; p. 732.
Brackett, Frederick, Washington, D. C. Air-craft. No. 1,039,251; Sept. 24; Gaz. vol. 182; p. 789.
Brackett, Frederick, Washington, D. C. Sleeping-car. No. 1,048,131; Dec. 24; Gaz. vol. 185; p. 907.
Brackett, Quincy A., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Current-rectifier system. No. 1,036,789; Aug. 27; Gaz. vol. 181; p. 913.
Bracy, Edward L., Scotland Neck, N. C. Machinery for packing cigarettes and other articles. No. 1,041,007; Oct. 15; Gaz. vol. 183; p. 516.
Bradberry, Frederick J., Mitchell, S. D. Clutch mechanism for gang-plow lifters. No. 1,029,272; June 11; Sp. p. 2596; Gaz. vol. 179; p. 441.
Bradburn, Curtis E. (See Meek and Bradburn.)
Bradburn, Justin G. (See Ball and Bradburn.)
Bradbury, Clifford C., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Telephone system. No. 1,042,389; Oct. 29; Gaz. vol. 183; p. 1043.
Bradbury, Emma, administratrix. (See Bradbury, William F.)
Bradbury, William F., deceased, Kansas City, Mo.; E. Bradbury, administratrix. Ore-separator. No. 1,042,194; Oct. 22; Gaz. vol. 183; p. 951.
Braddock, Isaac A., Haddonfield, N. J., assignor of one-sixth to W. C. Codd, Baltimore, Md., one-sixth to N. A. Kestler, and one-sixth to D. E. Anthony, Washington, D. C. Metal-concrete container. No. 1,016,912; Feb. 6; Sp. p. 1500; Gaz. vol. 175; p. 232.
Braden, Albert R., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Apparatus for soldering metal pieces. No. 1,030,641; June 25; Sp. p. 5811; Gaz. vol. 179; p. 996.
Bradford, Charles E., Chicago, Ill. Wrench. No. 1,029,418; June 11; Sp. p. 2945; Gaz. vol. 179; p. 492.
Bradford, Chester, and G. L. Chatfield, Indianapolis, Ind.; said Chatfield assignor to said Bradford. Grain elevator and weigher. No. 1,017,735; Feb. 20; Sp. p. 3273; Gaz. vol. 175; p. 587.
Bradford, Clinton E., Augusta, Wis. Milk-pail. No. 1,040,613; Oct. 8; Gaz. vol. 183; p. 350.
Bradford Dyers' Association, The. (See Wilkinson, Joe, assignor.)
Bradford, George H., Berkeley, Cal. Gyratory ore-mill. No. 1,036,433; Aug. 20; Gaz. vol. 181; p. 761.
Bradford, Joseph P., Jasper, Mo. Planter attachment for cultivators. No. 1,037,724; Sept. 3; Gaz. vol. 182; p. 183.
Bradford, Lawrence A., Flemingsburg, Ky. Spoke-socket. No. 1,035,943; Aug. 20; Gaz. vol. 181; p. 590.
Bradford Machine Tool Company, The. (See Blum, Edward W., assignor.)
Bradford, Percival L., Chicago, Ill. Speed-regulator. No. 1,027,640; May 28; Sp. p. 5576; Gaz. vol. 178; p. 974.
Bradford, Seymour K. (See Barstow and Bradford.)
Bradford, William D., Crafton, Pa. Ingot-mold. No. 1,048,030; Dec. 24; Gaz. vol. 185; p. 873.
Bradford, William N., *et al.* (See James, Charles, assignor.)
Bradley, Benjamin C., Canton, Ohio. Pulverizing-mill. No. 1,020,398; Mar. 19; Sp. p. 2942; Gaz. vol. 176; p. 535.
Bradley, Charles S., New York, N. Y. Method of and apparatus for operating turbines. No. 1,015,777; Jan. 30; Sp. p. 5914; Gaz. vol. 174; p. 1035.
Bradley, Charles S., assignor to R. B. Wilson, New York, N. Y. Ozonifying. No. 1,041,421; Oct. 15; Gaz. vol. 183; p. 656.
Bradley, Charles W., Rock Rapids, Iowa. Tamping-machine. No. 1,047,738; Dec. 17; Gaz. vol. 185; p. 747.
Bradley, Clarence J., Bowling Green, assignor of one-fourth to G. G. Ogden and one-fourth to W. S. Wilhoit, Ashley, Mo. Form for cases, boxes, &c. No. 1,043,564; Nov. 5; Gaz. vol. 184; p. 186.
Bradley, Francis W., Buffalo, N. Y. Pipe-coupling. No. 1,034,965; Aug. 6; Gaz. vol. 181; p. 189.
Bradley, Frank A., Washington, Mo. Gradometer. No. 1,047,611; Dec. 17; Gaz. vol. 185; p. 702.
Bradley, Franklin F., assignor to Bradley & Vrooman Company, Chicago, Ill. Producing ready-mixed paint. No. 1,032,652; July 16; Gaz. vol. 180; p. 706.
Bradley, Franklin F., assignor to Bradley and Vrooman Company, Chicago, Ill. Coating objects with subdivided material. No. 1,034,761; Aug. 6; Gaz. vol. 181; p. 121.
Bradley, Fred L., Los Angeles, Cal. Power-saw. No. 1,035,524; Aug. 13; Gaz. vol. 181; p. 411.
Bradley, Frederick A., Providence, R. I. Non-refillable bottle. No. 1,042,195; Oct. 22; Gaz. vol. 183; p. 952.
Bradley, James A., assignor of one-half to H. C. Digby, Pittsburgh, Pa. Driving mechanism for portable drills or similar tools. No. 1,040,867; Oct. 8; Gaz. vol. 183; p. 435.
Bradley, John J., London, Ontario, Canada. Staple-lock folding box. No. 1,048,031; Dec. 24; Gaz. vol. 185; p. 873.
Bradley, Lynde, Muskegon, Mich., assignor to Allen-Bradley Company. Current-controller. No. 1,043,565; Nov. 5; Gaz. vol. 184; p. 187.
Bradley, Philo R., assignor of one-half to G. Winkler, West New York, N. J. Pipe or hose coupling. No. 1,022,927; Apr. 9; Sp. p. 2510; Gaz. vol. 177; p. 428.
Bradley Pulverizer Company. (See Griffin, Edwin C., assignor.)
Bradley, Richard, *et al.* (See Foss, Walter O., assignor.)
Bradley, Richard C., Shreveport, La. Gas-generator. No. 1,042,882; Oct. 29; Gaz. vol. 183; p. 1218.
Bradley, Samuel M., Lynn, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Welt-insole. No. 1,017,077; Feb. 13; Sp. p. 1897; Gaz. vol. 175; p. 327.
Bradley, Stephen D., Syracuse, N. Y. Flexible shafting. No. 1,042,760; Oct. 29; Gaz. vol. 183; p. 1176.
Bradley and Vrooman Company. (See Bradley, Franklin F., assignor.)
Bradley, William, assignor of one-half to T. Schofield, Pittsburgh, Pa. Curtain-fixture. No. 1,026,652; May 21; Sp. p. 3443; Gaz. vol. 178; p. 601.
Bradley, William H., Philadelphia, Pa. Advertising apparatus. No. 1,024,177; Apr. 23; Sp. p. 5182; Gaz. vol. 177; p. 910.
Bradley, William H., Portland, Oreg. Saddle-support for motor-cycles and the like. No. 1,044,436; Nov. 12; Gaz. vol. 184; p. 515.

Alphabetical list of patentees—Continued.

Bradley, William J., assignor to Monarch Steam Blower Company, Troy, N. Y. Soot-cleaner for steam-boilers. No. 1,037,422; Sept. 3; Gaz. vol. 182; p. 83.
Bradley, William J., Troy, assignor to The Rail Joint Company, New York, N. Y. Shaping rail-joint bars. No. 1,040,614; Oct. 8; Gaz. vol. 183; p. 350.
Bradley, William J., Troy, assignor to The Rail Joint Company, New York, N. Y. Continuous heating-furnace. No. 1,040,868; Oct. 8; Gaz. vol. 183; p. 435.
Bradshaw, Frank F., assignor of one-half to F. G. Thomas, Topeka, Kans. Collapsible packing-case. No. 1,026,379; May 14; Sp. p. 2856; Gaz. vol. 178; p. 473.
Bradshaw, Fred H., Conway Springs, Kans. Draft-equalizer. No. 1,044,738; Nov. 19; Gaz. vol. 184; p. 651.
Bradshaw, George B., Brooklyn, N. Y. Treating paloamarillo and similar gums. No. 1,024,178; Apr. 23; Sp. p. 5185; Gaz. vol. 177; p. 911.
Bradshaw, Ira J., Waukegan, Ill. Annunciator and cabinet for barber-shops. No. 1,028,856; June 11; Sp. p. 1700; Gaz. vol. 179; p. 298.
Bradshaw, John F. W., near Overton, Tex. Airship. No. 1,029,529; June 11; Sp. p. 3156; Gaz. vol. 179; p. 529.
Bradshaw, Joseph F., Mortimer, N. C. Punch. No. 1,033,527; July 23; Gaz. vol. 180; p. 1039.
Bradshaw, William M. (See Conrad and Bradshaw.)
Bradshaw, William T., Berkeley, Cal. Illuminating-sign. No. 1,022,928; Apr. 9; Sp. p. 2511; Gaz. vol. 177; p. 428.
Brady, Cassius. (See Snead and Brady.)
Brady, Charles C., Ezra, Ky. Insulator. No. 1,028,534; June 4; Sp. p. 1028; Gaz. vol. 179; p. 156.
Brady, Edward P., Plattsburg, Mo. Rake. No. 1,046,144; Dec. 3; Gaz. vol. 185; p. 119.
Brady, Edwin B., New York, N. Y. Locking device for doors. No. 1,032,585; July 16; Gaz. vol. 180; p. 682.
Brady, Harry V., assignor to Robb Engineering Company, Ltd., South Framingham, Mass. Steam-boiler. No. 1,024,058; Apr. 23; Sp. p. 4906; Gaz. vol. 177; p. 869.
Brady, Huber R., *et al.* (See Wilkes, Paul, assignor.)
Brady, John, Fall River, Mass. Clearer and stop-motion for drawing-frames. No. 1,014,042; Jan. 9; Sp. p. 2138; Gaz. vol. 174; p. 357.
Brady, John F., Providence, R. I. Drinking-cup. No. 1,048,935; Dec. 31; Gaz. vol. 185; p. 1221.
Brady, John M., *et al.* (See Humphrey, John D., assignor.)
Brady, Joseph H., Kansas City, Mo. Sanitary drinking-fountain. No. 1,034,411; Aug. 6; Gaz. vol. 181; p. 4.
Brady, Joseph H., Kansas City, Mo. Sanitary drinking-fountain. No. 1,034,412; Aug. 6; Gaz. vol. 181; p. 5.
Brady, William C., Akron, Ohio. Portable refrigerating apparatus. No. 1,037,423; Sept. 3; Gaz. vol. 182; p. 83.
Brady, William P., *et al.* (See Maloz, Walter C., assignor.)
Braeckel Concentrator Company, The. (See Braeckel and Ehlerding, assignors.)
Braeckel Concentrator Company, The. (See Dunham, Orson W., assignor.)
Braeckel, Frank H., and F. J. Ehlerding, assignors to The Braeckel Concentrator Company, Joplin, Mo. Concentrating-table. No. 1,047,161; Dec. 17; Gaz. vol. 185; p. 541.
Braemer, William G. R., Buffalo, N. Y., assignor to Warren Webster & Company. Apparatus for purifying air. No. 1,037,424; Sept. 3; Gaz. vol. 182; p. 84.
Braemer, William G. R., Camden, N. J., assignor to Warren Webster & Company. Air-purifying apparatus. No. 1,040,499; Oct. 8; Gaz. vol. 183; p. 308.
Bragg, William. (See Taylor and Hutchins, assignors.)
Bragg, William B. (See Hancock, Adelbert E., assignor.)
Bragstäd, Joseph W., Canton, S. D. Concrete-block-molding machine. No. 1,041,731; Oct. 22; Gaz. vol. 183; p. 794.
Brague, Everett W., Clarington, Ohio. Barrel-tap. No. 1,024,971; Apr. 30; Sp. p. 6939; Gaz. vol. 177; p. 1220.
Brahan, Edward, Green Bay, Wis. Pipe-wrench attachment for monkey-wrenches. No. 1,035,775; Aug. 13; Gaz. vol. 181; p. 494.
Brahn, John N. (See Champagne and Brahn.)
Braibant, Nestor, Brussels, Belgium. Elastic wheel. No. 1,033,664; July 23; Gaz. vol. 180; p. 1084.
Braibant, Nestor, Brussels, Belgium. Wheel. No. 1,033,665; July 23; Gaz. vol. 180; p. 1084.
Braibant, Nestor, Brussels, Belgium. Antifriction-bearing for resilient wheels. No. 1,044,739; Nov. 19; Gaz. vol. 184; p. 651.
Brain, George, New York, N. Y. Dipping-frame for candies. No. 1,019,220; Mar. 5; Sp. p. 468; Gaz. vol. 176; p. 75.
Braine, Bancroft G., assignor to The Rail Joint Company, New York, N. Y. Rail-joint. No. 1,026,300; May 14; Sp. p. 2664; Gaz. vol. 178; p. 446.
Braine, Bancroft G., assignor to The Rail Joint Company, New York, N. Y. Insulated rail-joint. No. 1,032,875; July 16; Gaz. vol. 180; p. 782.
Braine, Bancroft G., assignor to The Rail Joint Company, New York, N. Y. Means for insulating rail-joints. No. 1,048,284; Dec. 24; Gaz. vol. 185; p. 958.
Braine, Bancroft G., assignor to The Rail Joint Company, New York, N. Y. Insulator for rail-joints. No. 1,048,646; Dec. 31; Gaz. vol. 185; p. 1121.
Brainerd, Edward R., Los Angeles, Cal. Disappearing bed. No. 1,029,167; June 11; Sp. p. 2383; Gaz. vol. 179; p. 406.
Brakenridge, William H., assignor to Waterbury Mfg. Co., Waterbury, Conn. Manufacturing metal boxes. No. 1,026,340; May 14; Sp. p. 2760; Gaz. vol. 178; p. 461.
Braly, Hugh L., Clarendon, Tex. Oil-burner. No. 1,015,288; Jan. 23; Sp. p. 4849; Gaz. vol. 174; p. 840.
Braly, Hugh L., Shamrock, Tex. Washing-machine. No. 1,034,413; Aug. 6; Gaz. vol. 181; p. 5.
Braly, Hugh L., Shamrock, Tex. Valve for water-tanks. No. 1,038,836; Sept. 17; Gaz. vol. 182; p. 632.
Braman, Oliver A. (See Fulcher, Clark A., assignor.)
Bramanti-Mattei, Giuseppe, and P. Beltramo, Seravezza, Italy. Air-chambered stuffing-box for spiral pumps or coils. No. 1,021,714; Mar. 26; Sp. p. 5727; Gaz. vol. 176; p. 1029.
Bramberry, William A., Norfolk, assignor of one-fourth to L. M. Jones, Portsmouth, Va. Self-locking seal. No. 1,038,485; Sept. 10; Gaz. vol. 182; p. 474.
Bramer, Albert. (See Algard and Bramer.)
Bramhall, Louis P., assignor to The Walkhi Stilt Manufacturing Company, Camden, Me. Adjustable stilt. No. 1,032,323; July 9; Gaz. vol. 180; p. 550.
Brammer, Harry, Burley, Leeds, England. Cycle and like bell. No. 1,035,681; Aug. 13; Gaz. vol. 181; p. 463.
Brampton, Arthur, Birmingham, and F. Osborne, Four Oaks, England. Conduit-fitting for electrical and other purposes. No. 1,020,123; Mar. 12; Sp. p. 2379; Gaz. vol. 176; p. 407.
Brampton Brothers Limited. (See Richmond, Reginald H., assignor.)
Bramschreiber, Ernst H. (See Raaths, Ernest, assignor.)
Brand, Achill W., Boise, Idaho. Fuel-consumer, heat-generator, and heater. No. 1,015,665; Jan. 23; Sp. p. 5678; Gaz. vol. 174; p. 970.
Brand, Adolph, Washington, D. C. Match-box holder. No. 1,048,285; Dec. 24; Gaz. vol. 185; p. 958.
Brand, David H. (See Williams, Campbell, and Brand.)
Brand, Frederick A., assignor to The Broc Electric Vehicle Company, Cleveland, Ohio. Vehicle-body. No. 1,036,790; Aug. 27; Gaz. vol. 181; p. 913.
Brand, George P., New York, N. Y. Pedal mechanism. No. 1,013,857; Jan. 9; Sp. p. 1708; Gaz. vol. 174; p. 295.
Brand, George P., New York, N. Y. Tracking device. No. 1,014,941; Jan. 16; Sp. p. 4138; Gaz. vol. 174; p. 697.
Brand, George P., New York, N. Y. Tracker device. No. 1,014,942; Jan. 16; Sp. p. 4142; Gaz. vol. 174; p. 697.
Brand, George P., New York, N. Y. Pneumatic action for piano-players, &c. No. 1,036,956; Aug. 27; Gaz. vol. 181; p. 968.
Brand, George P., New York, N. Y. Actuating mechanism for piano-players, &c. No. 1,036,957; Aug. 27; Gaz. vol. 181; p. 968.
Brand, George P., New York, N. Y. Tracking device. No. 1,040,869; Oct. 8; Gaz. vol. 183; p. 435.
Brand, George P., and J. Santos, New York, N. Y.; said Santos assignor to Behning Piano Company. Door and pedal operating mechanism. No. 1,021,571; Mar. 26; Sp. p. 5471; Gaz. vol. 176; p. 983.
Brand, James C., St. Joseph, Mo. Combined harrow and shield. No. 1,025,118; May 7; Sp. p. 7; Gaz. vol. 178; p. 4.
Brand, John S., Fairhaven, Mass., assignor of one-third to F. A. Johnson, South Orange, N. J., and one-third to W. E. Brand, Boston, Mass. Multiple-writing machine. No. 1,038,486; Sept. 10; Gaz. vol. 182; p. 474.
Brand, Johnny. (See Hall and Brand.)
Brand, Leonard F., and F. C. Gladeck, Philadelphia, Pa. Metallic packing and shipping case. No. 1,040,870; Oct. 8; Gaz. vol. 183; p. 436.
Brand, William E., *et al.* (See Brand, John S., assignor.)
Brandau, Adam. (See Kaerschke, Robert, assignor.)
Brandeau, Etta E. (See Jones, Lyman D., assignor.)
Brandell, Claus O., assignor to Ideal Concrete Machinery Company, South Bend, Ind. Core-actuator. No. 1,023,920; Apr. 23; Sp. p. 4617; Gaz. vol. 177; p. 822.
Brandenburg, Francis C., Piqua, Ohio. Emery-wheel dresser. No. 1,042,761; Oct. 29; Gaz. vol. 183; p. 1176.
Brandenburg, John M., Elgin, Ill. Corn-plaster. No. 1,026,786; May 21; Sp. p. 3736; Gaz. vol. 178; p. 647.
Brandenburg, William A., New York, N. Y. Truck. No. 1,024,614; Apr. 30; Sp. p. 6203; Gaz. vol. 177; p. 1094.
Brandenburger, Herman A., St. Louis, Mo. Tire. No. 1,031,416; July 2; Gaz. vol. 180; p. 199.
Brandenburger, Herman A., St. Louis, Mo. Tire. No. 1,034,966; Aug. 6; Gaz. vol. 181; p. 189.
Brander, Georges de, Brussels, Belgium. Filter. No. 1,028,535; June 4; Sp. p. 1029; Gaz. vol. 179; p. 156.
Brandes, Gordon H. (See Levy and Brandes.)
Brandes, Herman H., assignor of one-fourth to E. T. Lawrence, Corydon, Ky. Fireplace-heater. No. 1,013,372; Jan. 2; Sp. p. 623; Gaz. vol. 174; p. 99.
Brandhorst, August, Hermann, Mo. Corn-shock loader. No. 1,014,043; Jan. 9; Sp. p. 2139; Gaz. vol. 174; p. 357.
Brandl, Frank J. (See Johnson, Christ J., assignor.)
Brandl, Josef, Neunuhsberg, Germany. Bevel-protractor. No. 1,028,425; June 4; Sp. p. 796; Gaz. vol. 179; p. 120.

Alphabetical list of patentees—Continued.

Brandley, Harry, Matfield Green, Kans. Door-latch. No. 1,035,077; Aug. 6; Gaz. vol. 181; p. 224.
Brandon, Martin, Eau Claire, Wis. Suit-case. No. 1,048,934; Dec. 31; Gaz. vol. 185; p. 1221.
Brandon, William, Woodbine, Iowa. Berry-picker. No. 1,020,881; Mar. 19; Sp. p. 3993; Gaz. vol. 176; p. 696.
Brandon, William W., *et al.* (See Hall, Frank M., assignor.)
Brandstätter, Michael, Vienna, Austria-Hungary. Igniter. No. 1,017,505; Feb. 13; Sp. p. 2812; Gaz. vol. 175; p. 475.
Brandt, Bernard L., Lansing, Mich. Garment-support. No. 1,045,938; Dec. 3; Gaz. vol. 185; p. 48.
Brandt, Carl, Boston, Mass. Sleeping-car berth. No 1,036,553; Aug. 27; Gaz. vol. 181; p. 834.
Brandt, David E., Chisago City, Minn. Tellurian. No. 1,045,807; Dec. 3; Gaz. vol. 185; p. 4.
Brandt, David E., Chisago City, Minn. Tellurian. No. 1,045,808; Dec. 3; Gaz. vol. 185; p. 4.
Brandt, Henriette, New Brighton, N. Y. Folding bed. No. 1,042,075; Oct. 22; Gaz. vol. 183; p. 912.
Brandt, Henry E., Minneapolis, Minn. Spraying device. No. 1,016,204; Jan. 30; Sp. p. 6803; Gaz. vol. 174; p. 1182.
Brandt, Henry E., Minneapolis, Minn. Spraying device. No. 1,027,521; May 28; Sp. p. 5342; Gaz. vol. 178; p. 935.
Brandt, Julius E., Lindsborg, Kans. Ball and catcher toy. No. 1,017,376; Feb. 13; Sp. p. 2530; Gaz. vol. 175; p. 429.
Brandt, Lewis, Pittsburgh, Pa. Tool for vacuum-cleaners. No. 1,035,852; Aug. 20; Gaz. vol. 181; p. 558.
Brandt, Maurice L., Brooklyn, N. Y. Razor-stropping machine. No. 1,025,119; May 7; Sp. p. 8; Gaz. vol. 178; p. 4.
Brandt, Maurice L., Brooklyn, N. Y. Razor-stropping machine. No. 1,025,120; May 7; Sp. p. 9; Gaz. vol. 178; p. 4.
Brandt, Maurice L., Brooklyn, N. Y. Lather-brush. No. 1,047,739; Dec. 17; Gaz. vol. 185; p. 747.
Brandt, Maurice L., Brooklyn, N. Y. Razor-stropping machine. No. 1,032,586; July 16; Gaz. vol. 180; p. 683.
Brandt, Noah, New York, N. Y. Screen. No. 1,013,118; Jan. 2; Sp. p. 53; Gaz. vol. 174; p. 11.
Brandt, Robert C., Oroville, Cal. Controlling device for aeroplanes. No. 1,020,342; Mar. 12; Sp. p. 2817; Gaz. vol. 176; p. 478.
Brandt, Samuel A., Tremont, Ill. Electric mail-carrier. No. 1,039,019; Sept. 17; Gaz. vol. 182; p. 692.
Branham, Adolphus D., St. Louis, Mo. Indicator. No. 1,035,413; Aug. 13; Gaz. vol. 181; p. 373.
Branham, Henry M., Fort Valley, Ga. Box. No. 1,020,534; Mar. 19; Sp. p. 3237; Gaz. vol. 176; p. 579.
Brannaman, Edward S., *et al.* (See Yount, Jesse M., assignor.)
Brannberg, Gideon E., Joliet, Ill. Bearer for printing-presses. No. 1,033,528; July 23; Gaz. vol. 180; p. 1039.
Bransfield, Michael T., Chicago, Ill. Dump car or wagon. No. 1,032,271; July 9; Gaz. vol. 180; p. 532.
Branson, James H. E., Philadelphia, Pa. Door and step operating mechanism for passenger railway-cars. No. 1,014,863; Jan. 16; Sp. p. 3963; Gaz. vol. 174; p. 670.
Branson, Walter J., Wilkinsburg, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Single-phase motor. No. 1,013,119; Jan. 2; Sp. p. 56; Gaz. vol. 174; p. 11.
Brant, James, Dubuque, Iowa. Automatic air-coupling. No. 1,027,314; May 21; Sp. p. 4917; Gaz. vol. 178; p. 827.
Brantigam, Frederick, Bridgeport, Conn. Machine for bending tubes. No. 1,047,612; Dec. 17; Gaz. vol. 185; p. 703.
Branyan, Jasper N., Blue Springs, Miss. Match-box. No. 1,024,392; Apr. 23, Sp. p. 5597; Gaz. vol. 177; p. 982.
Branzell, William H., Washington, D. C. Skylight. No. 1,044,740; Nov. 19; Gaz. vol. 184; p. 651.
Braren, Waldo W., Chicago, Ill. Flour-sifter. No. 1,028,322; June 4; Sp. p. 564; Gaz. vol. 179; p. 83.
Braren, Wilhelm. (See Lüttringhaus and Braren.)
Brasch, Louis F., Newark, and A. C. Teany, East Orange, N. J. Machine for making cup-shaped articles. No. 1,033,300; July 23; Gaz. vol. 180; p. 965.
Brasington, John M., assignor, by mesne assignments, to T. E. & C. S. McCall Co., Bennettsville, S. C. Fertilizer-distributer. No. 1,014,044; Jan. 9; Sp. p. 2143; Gaz. vol. 174; p. 358.
Braskett, Thomas C., assignor, by mesne assignments, to The Anderson Computing Scale Company, Anderson, Ind. Cheese-cutter. (Reissue.) No. 13,449; July 30; Gaz. vol. 180; p. 1368.
Brassert, Herman A., Braddock, Pa. Manufacturing steel. No. 1,032,653; July 16; Gaz. vol. 180; p. 707.
Brassert, Herman A., Braddock, Pa. Purifying iron. No. 1,032,654; July 16; Gaz. vol. 180; p. 707.
Brassert, Herman A., Braddock, Pa. Manufacturing steel. No. 1,032,655; July 16; Gaz. vol. 180; p. 707.
Brassington, Abraham. (See Keller and Brassington.)
Brassington, Abraham. (See Keller, Brassington, and Kostenbauder.)
Brassington, Charles. (See Keller and Brassington.)
Brassington, Charles. (See Keller, Brassington, and Kostenbauder.)
Braswell, Radford O., *et al.* (See Randle, Millard F., assignor.)
Brath, Thomas D., Rochester, N. Y. Fire-nozzle. No. 1,019,420; Mar. 5; Sp. p. 967; Gaz. vol. 176; p. 141.
Bratt, Charles E., London, England. Manufacture of cask-staves. No. 1,025,048; Apr. 30; Sp. p. 7085; Gaz. vol. 177; p. 1245.
Brattain, John N., Davidson, N. C. Drilling-machine. No. 1,016,735; Feb. 6; Sp. p. 1126; Gaz. vol. 175; p. 173.
Brauer, August, Independence, Mo. Rotary engine. No. 1,023,360; Apr. 16; Sp. p. 3434; Gaz. vol. 177; p. 613.
Brauer, August, assignor to August Brauer Steam Rotary Motor Company, Independence, Mo. Rotary motor. No. 1,013,926; Jan. 9; Sp. p. 1876; Gaz. vol. 174; p. 319.
Bräuer, Gustav A., Chemnitz, Germany. Two-stroke-cycle internal-combustion engine. No. 1,045,505; Nov. 26; Gaz. vol. 184; p. 947.
Braüer, Kurt A. B., Mittweida, Germany. Employing gases having a low boiling temperature in heat-engines. No. 1,025,856; May 7; Sp. p. 1630; Gaz. vol. 178; p. 258.
Braukmann, Joseph, *et al.* (See Olney, Oscar C., assignor.)
Braun, F. W. (See Beach, Oscar C., assignor.)
Braun, F. W. (See Beach and Hodge, assignors.)
Braun, Henry, assignor of one-third to F. J. Pfaff and one-third to G. Seeber, Elizabeth, N. J. Coupon transfer-ticket. No. 1,048,286; Dec. 24; Gaz. vol. 185; p. 959.
Braun, Henry W., Lemoyne, Pa. Chock for railway rolling-stock. No. 1,041,236; Oct. 15; Gaz. vol. 183; p. 594.
Braun, Jacob G., Chicago, Ill. Hinge. No. 1,021,912; Apr. 2; Sp. p. 337; Gaz. vol. 177; p. 56.
Braun, Mark, Pittsburgh, Pa. Sponging apparatus. No. 1,044,437; Nov. 12; Gaz. vol. 184; p. 515.
Braun, Richard, Karlsruhe, Germany, assignor to The National Cash Register Company, Dayton, Ohio. Cash-register. No. 1,044,482; Nov. 19; Gaz. vol. 184; p. 561.
Braun, Rudolf, Manchester, England, assignor to Westinghouse Electric & Manufacturing Company. System of electrical distribution. No. 1,013,270; Jan. 2; Sp. p. 394; Gaz. vol. 174; p. 63.
Braun, Sidney D. R., Chicago, Ill. Electric-light arm. No. 1,030,642; June 25; Sp. p. 5814; Gaz. vol. 179; p. 996.
Braun, William P., Brooklyn, N. Y. Bottle-brush. No. 1,034,576; Aug. 6; Gaz. vol. 181; p. 58.
Brauner, Simon, assignor of one-third to J. M. Shwartz, Pittsburgh, Pa. Trolley. No. 1,027,175; May 21; Sp. p. 4638; Gaz. vol. 178; p. 779.
Bräuning, Karl A., Herstal, near Liege, Belgium. Automatic firearm with fixed barrel and breech-action. No. 1,020,596; Mar. 19; Sp. p. 3381; Gaz. vol. 176; p. 600.
Bräunlich, Fritz, Brünn, Austria-Hungary. Making anhydrous tetrachlorid of tin from dioxid of tin. No. 1,039,356; Sept. 24; Gaz. vol. 182; p. 825.
Braunsdorf, William, New York, N. Y. Tide-motor. No. 1,048,389; Dec. 24; Gaz. vol. 185; p. 994.
Braverman, William. (See Lanier, George A., assignor.)
Brawley, Edward, Braddock, Pa. Device for measuring circular bodies. No. 1,020,020; Mar. 12; Sp. p. 2160; Gaz. vol. 176; p. 372.
Brawley, Thomas G., Arcanum, Ohio. Attachment for corrugated roofing. No. 1,015,289; Jan. 23; Sp. p. 4850; Gaz. vol. 174; p. 840.
Brawner, William J., Grand Saline, Tex. Cotton-thinning machine. No. 1,032,656; July 16; Gaz. vol. 180; p. 708.
Bray, Eustace V., *et al.* (See McKee, Albert K., assignor.)
Bray, Eustace V., assignor of one-half to R. S. Haseltine, Coalinga, Cal. Separator for removing gas from oil or other liquids. No. 1,014,943; Jan. 16; Sp. p. 4146; Gaz. vol. 174; p. 697.
Bray, Horatio N., Montreal, Quebec, Canada. Valve. No. 1,033,149; July 23; Gaz. vol. 180; p. 913.
Bray, Orville. (See Henkle, Frank G., assignor.)
Bray, William E., Pryor Creek, Okla. Garment. No. 1,022,461; Apr. 9; Sp. p. 1501; Gaz. vol. 177; p. 269.
Brayer, Frank, and S. L. Long; said Brayer assignor to G. J. Albrecht, Minneapolis, Minn. Safety cranking attachment for explosive-engines. No. 1,031,166; July 2; Gaz. vol. 180; p. 112.
Braymer, Forrest V., Blooming Valley, Pa. Pump-plunger. No. 1,028,426; June 4; Sp. p. 796; Gaz. vol. 179; p. 120.
Brayshaw, Edmund R., Manchester, England. Gas-burner. No. 1,024,393; Apr. 23; Sp. p. 5598; Gaz. vol. 177; p. 982.
Brazell, John T., Lanett, Ala. Bobbin-stripper. No. 1,048,802; Dec. 31; Gaz. vol. 185; p. 1176.
Brazelle, Benjamin, St. Louis, Mo. Fluid-pressure engine. No. 1,031,834; July 9; Gaz. vol. 180; p. 385.
Brazelle, Benjamin, Kirkwood, assignor to Brazelle Motor Company, St. Louis, Mo. Internal-combustion motor. No. 1,022,177; Apr. 2; Sp. p. 900; Gaz. vol. 177; p. 144.
Brazelle, Benjamin, Kirkwood, assignor to Brazelle Motor Company, St. Louis, Mo. Internal-combustion motor. No. 1,022,178; Apr. 2; Sp. p. 903; Gaz. vol. 177; p. 144.

Alphabetical list of patentees—Continued.

Brazelle Motor Company. (See Brazelle, Benjamin, assignor.)
Breakefield, Charley. (See Patt, Charles, assignor.)
Breaker, Lewis F., Houston, Tex. Pipe connection. No. 1,027,586; May 28; Sp. p. 5480; Gaz. vol. 178; p. 958.
Breakfield, Reny A., Madrid, Iowa. Apparatus for treating rheumatism. No. 1,032,324; July 9; Gaz. vol. 180; p. 550.
Brearey, Christopher J. C., Westboro, Wis. Fish-line drier. No. 1,017,550; Feb. 27; Sp. p. 5196; Gaz. vol. 175; p. 903.
Brearley, Ben, Providence, R. I. Safety attachment for drop-hammers, &c. No. 1,030,381; June 25; Sp. p. 5058; Gaz. vol. 179; p. 902.
Brecht, Louis F., and N. V. Stamey, San Francisco, Cal. Stove. No. 1,042,638; Oct. 29; Gaz. vol. 183; p. 1133.
Breckenridge, John G., assignor to The Ridgely Trimmer Company, Springfield, Ohio. Blow-torch. No. 1,013,637; Jan. 2; Sp. p. 1186; Gaz. vol. 174; p. 189.
Breckenridge, Roeliff M., Bronxville, assignor to American Can Company, New York, N. Y. Friction-top can. No. 1,031,238; July 2; Gaz. vol. 180; p. 138.
Brecker, Frank, Shenandoah, Pa. Cue-trimmer. No. 1,021,128; Mar. 26; Sp. p. 4501; Gaz. vol. 176; p. 830.
Brede, Carle E., Detroit, Mich. Lock. No. 1,042,639; Oct. 29; Gaz. vol. 183; p. 1134.
Breder, Frederick W., and J. H. Loyd; said Loyd assignor to M. O. Brixey, Springfield, Mo. Artificial bait. (Reissue.) No. 13,499; Dec. 24; Gaz. vol. 185; p. 1024.
Bredin, Wilson W., Denver, Colo. Urethrotome. No. 1,015,472; Jan. 23; Sp. p. 5270; Gaz. vol. 174; p. 903.
Breed, George, Philadelphia, Pa., assignor to The Lyrachord Company, New York, N. Y. Method of and mechanism for producing musical sounds. (Reissue.) No. 13,365; Jan. 23; Sp. p. 5896; Gaz. vol. 174; p. 1005.
Breed, George W., assignor to Detroit Motorcycle Mfg. Co., Detroit, Mich. Motor-cycle frame. No. 1,015,418; Jan. 23; Sp. p. 5147; Gaz. vol. 174; p. 884.
Breed, Preston H., Pittsfield Mass., assignor, by mesne assignments, to Alden Sampson Manufacturing Company. Brake. No. 1,046,256; Dec. 3; Gaz. vol. 185; p. 159.
Breeden, James C., Oronoga, Mo. Gate for jigs. No. 1,025,242; May 7; Sp. p. 295; Gaz. vol. 178; p. 48.
Breedlove, Clarence M., Birmingham, Ala. Telegraphy. No. 1,049,044; Dec. 31; Gaz. vol. 185; p. 1260.
Breeze, Herbert J., Portland, Oreg. Tire-filling compound. No. 1,015,133; Jan. 16; Sp. p. 4526; Gaz. vol. 174; p. 763.
Brégéras, Gaston J. (See Bellem and Brégéras.)
Bréhier, Charles L., Paris, France. Apparatus for manufacturing metallic hoops. No. 1,021,300; Mar. 26; Sp. p. 4869; Gaz. vol. 176; p. 889.
Brehm, Charlie M., Dayton, Ohio. Dispensing apparatus. No. 1,046,957; Dec. 10; Gaz. vol. 185; p. 441.
Brehm, Herman F., Waterloo, N. Y. Rendering-tank. No. 1,032,181; July 9; Gaz. vol. 180; p. 501.
Brehm, Stanley M., Miamisburg, Ohio. Telephone attachment. No. 1,035,682; Aug. 13; Gaz. vol. 181; p. 463.
Brehman, Orson D., San Francisco, Cal. Roundabout. No. 1,041,008; Oct. 15; Gaz. vol. 183; p. 517.
Breider, Armin, Nagyvarad, Austria-Hungary. Slate-cleaner. No. 1,015,539; Jan. 23; Sp. p. 5400; Gaz. vol. 174; p. 925.
Breil, Wilhelm, Bredeney, Essen-on-the-Ruhr, Germany. Tubbing for shafts. No. 1,048,287; Dec. 24; Gaz. vol. 185; p. 959.
Breiling, Emil J., *et al.* (See Belluomini and Marcucci, assignors.)
Breiling, Oscar F., *et al.* (See Belluomini and Marcucci, assignors.)
Breisacher, Leo, *et al.* (See Jennings, Jarvis S., Jr., assignor.)
Breitung, Edward N., Marquette, Mich. Wheel. No. 1,037,199; Sept. 3; Gaz. vol. 182; p. 7.
Brelle, Frank, Ferndale, Cal. Fruit-jar. No. 1,042,390; Oct. 29; Gaz. vol. 183; p. 1044.
Brelsford, William E., Triumph, Ill. Wagon-body. No. 1,022,296; Apr. 2; Sp. p. 1137; Gaz. vol. 177; p. 182.
Bremer & Bruckmann. (See Dempewolf, Otto, assignor.)
Bremer, Oscar E., De Kalb, Ill. Core-grinding machine. No. 1,049,200; Dec. 31; Gaz. vol. 185; p. 1311.
Bremer, Russell H., Reading, assignor of one-fourth to F. W. Maurer, one-fourth to J. Kistler, Lansford, and one-fourth to O. F. Thiry, Reading, Pa. Printing-roll. No. 1,025,779; May 7; Sp. p. 1469; Gaz. vol. 178; p. 232.
Brendel, Paul A. (See Poole and Brendel.)
Brendel, Paul A., assignor to The Bryant Electric Company, Bridgeport, Conn. Fuse-plug. No. 1,025,857; May 7; Sp. p. 1631; Gaz. vol. 178; p. 258.
Breneman, Joseph T., Martinez, Cal. Speculum and retractor. No. 1,018,868; Feb. 27; Sp. p. 5851; Gaz. vol. 175; p. 1009.
Brenenstul, Henry M., Bellevue, Ohio. Rotary tooth-brush. No. 1,038,525; Sept. 17; Gaz. vol. 182; p. 522.
Brenizer, Orson W. (See Brown and Brenizer.)
Brenizer, Orson W., Philadelphia, Pa. Cable-support. No. 1,030,969; July 2; Gaz. vol. 180; p. 41.
Brenizer, Orson W., Philadelphia, Pa., assignor to Bonita Mfg. Co., Camden, N. J. Hanger for trolley-wires. No. 1,045,809; Dec. 3; Gaz. vol. 185; p. 5.
Brennan, James M. (See Parks, George A., assignor.)
Brennan, James P., Columbus, Wis. Potato-harvester. No. 1,042,640; Oct. 29; Gaz. vol. 183; p. 1134.
Brennan, John J. (See Mattingly, Hines, and Brennan.)
Brennan, Louis, Gillingham, England. Means for imparting to and maintaining the stability of bodies such as single-track vehicles or vessels. No. 1,019,942; Mar. 12; Sp. p. 2003; Gaz. vol. 176; p. 345.
Brennan, Patrick W., Philadelphia, and M. Meehan, Williamstown, Pa. Compound for hardening steel and other metals. No. 1,036,434; Aug. 20; Gaz. vol. 181; p. 761.
Brennan, Patrick W., Philadelphia, and M. Meehan, Williamstown, Pa. Case-hardening compound. No. 1,036,435; Aug. 20; Gaz. vol. 181; p. 761.
Brennan, Paul C., assignor, by mesne assignments, to The United States Asphalt Refining Company, New York, N. Y. Self-contained machine for preparing road wearing-surfaces. No. 1,020,633; Mar. 19; Sp. p. 3467; Gaz. vol. 176; p. 612.
Brennan, Thomas, Jr., assignor to The Monitor Drill Company, Minneapolis, Minn. Scraper for furrow-openers. No. 1,022,352; Apr. 2; Sp. p. 1250; Gaz. vol. 177; p. 201.
Brennan, Thomas, Jr., assignor to The Monitor Drill Company, Minneapolis, Minn. Spout for disk attachments. No. 1,036,436; Aug. 20; Gaz. vol. 181; p. 761.
Brennan, Thomas F. (See Mullen and Brennan.)
Brenner, Christian D., and W. D. Pratt, Canton, Ohio. Water-heater. No. 1,031,239; July 2; Gaz. vol. 180; p. 138.
Brenner, Lupu W., Dayton, Ohio. Sectional valve for gas-engines. No. 1,020,535; Mar. 19; Sp. p. 3239; Gaz. vol. 176; p. 579.
Brenner, Paul, and O. Hoffmann, Duisburg, Germany. Self-acting valve for pumps and similar devices. No. 1,027,587; May 28; Sp. p. 5482; Gaz. vol. 178; p. 959.
Brent, Irvin H. (See Overbagh and Brent.)
Brentano's. (See Mecklem, Clive, assignor.)
Brenzinger, Julius, Mount Vernon, N. Y. Gearing. No. 1,020,477; Mar. 19; Sp. p. 3109; Gaz. vol. 176; p. 561.
Brenzinger, Julius, Mount Vernon, assignor to Sanitary Can Machinery Company, New York, N. Y. Machine for making can-bodies. (Reissue.) No. 13,487; Nov. 19; Gaz. vol. 184; p. 780.
Brereton, Wilfred P., Portland, Oreg. Reinforced concrete construction for hydraulic flumes. No. 1,030,839; June 25; Sp. p. 6412; Gaz. vol. 179; p. 1068.
Bresee, Wright D., assignor of one-fourth to E. H. Sargent, one-fourth to C. H. Sloan, Los Angeles, and one-half to M. L. Rice, San Francisco, Cal. Copying apparatus. No. 1,019,297; Mar. 5; Sp. p. 654; Gaz. vol. 176; p. 102.
Breslauer, Max, Charlottenburg, Germany, assignor to Minimax Consolidated Limited, London, England. Extinguishing fires. No. 1,017,949; Feb. 20; Sp. p. 3820; Gaz. vol. 175; p. 663.
Bresler, Harry, Charlottenburg, Germany, assignor, by mesne assignments, to General Electric Company. Manufacture of metallic filaments for incandescent electric lamps. No. 1,023,295; Apr. 16; Sp. p. 3315; Gaz. vol. 177; p. 593.
Bresler, Harry W., Charlottenburg, Germany, assignor, by mesne assignments, to General Electric Company. Drying cement clamps for filaments of electric lamps. No. 1,024,923; Apr. 30; Sp. p. 6852; Gaz. vol. 177; p. 1204.
Bresnahan, Maurice V., Lynn, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Lasting-machine. No. 1,030,382; June 25; Sp. p. 5060; Gaz. vol. 179; p. 903.
Bresnahan, Timothy A., Lynn, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Shoemaker's measure. No. 1,033,301; July 23; Gaz. vol. 180; p. 966.
Bressel, William H., and R. O'Hara, Pocatello, Idaho. Oil-cup. No. 1,027,522; May 28; Sp. p. 5343; Gaz. vol. 178; p. 936.
Bressmer, Fred A., and J. Shelhammer, Macon county, Ill. Draft-evener. No. 1,040,871; Oct. 8; Gaz. vol. 183; p. 436.
Brest, Albert, New Castle, Pa. Automatic tire-pump. No. 1,029,340; June 11; Sp. p. 2769; Gaz. vol. 179; p. 466.
Bretch, Edward, St. Louis, Mo. Electric motor. No. 1,041,009; Oct. 15; Gaz. vol. 183; p. 518.
Breton, Aimé L., San Francisco, Cal. Street and station indicator. No. 1,025,560; May 7; Sp. p. 1022; Gaz. vol 178; p. 158.
Brett, Charles H., Carthage, Mo. Adjustable support for inking-rollers of printing-presses. No. 1,030,712; June 25; Sp. p. 5988; Gaz. vol. 179; p. 1021.
Brett, Henry E. (See Talbot and Brett.)
Brettelle, Ambrose K., Chicago, Ill. Carpet-sweeper attachment. No. 1,022,059; Apr. 2; Sp. p. 654; Gaz. vol. 177; p. 104.
Bretz, Alfred. (See Clontz and Bretz.)
Breuer, Armand B., Budapest, Austria-Hungary. Fuel-admission valve for internal-combustion engines. No. 1,042,076; Oct. 22; Gaz. vol. 183; p. 913.

Alphabetical list of patentees—Continued.

Breuer, Vladimir, New York, N. Y. Aeroplane. No. 1,026,490; May 14; Sp. p. 3086; Gaz. vol. 178; p. 509.
Breul, Frederick G., Bridgeport, Conn. Making chain-links and similar articles. No. 1,034,867; Aug. 6; Gaz. vol. 181; p. 158.
Breul, Frederick G., Bridgeport, Conn. Chain-link. No. 1,034,868; Aug. 6; Gaz. vol. 181; p. 158.
Breul, Richard A., Bridgeport, Conn. Tire-grip. No. 1,043,062; Nov. 5; Gaz. vol. 184; p. 4.
Brevetti, Delizio, New York, N. Y. Jewel-setting. No. 1,035,310; Aug. 13; Gaz. vol. 181; p. 337.
Brevetti, Delizio, and C. Fucci, New York, N. Y. Life-saving apparatus. No. 1,015,937; Jan. 30; Sp. p. 6255; Gaz. vol. 174; p. 1089.
Brew, Thomas C. (See Rossiter and Brew.)
Brewer, Alfred, *et al.* (See Beebe, Frank, assignor.)
Brewer, Charles B., Hyattsville, Md. Shop management. No. 1,033,773; July 23; Gaz. vol. 180; p. 1117.
Brewer, Frank P., Angola, Ind. Pruning-saw. No. 1,032,987; July 16; Gaz. vol. 180; p. 818.
Brewer, Franklin N., S. B. Tily, J. G. and M. O. Rehfuss, Philadelphia, Pa., assignors, by mesne assignments, to The National Cash Register Company, Dayton, Ohio. Sales-recording machine. No. 1,045,118; Nov. 26; Gaz. vol. 184; p. 811.
Brewer, Frederick E., Townsend, Mont. Spark-arrester. No. 1,028,323; June 4; Sp. p. 565; Gaz. vol. 179; p. 84.
Brewer, Horatio J., New York, N. Y. Cover for electric batteries. No. 1,026,847; May 21; Sp. p. 3865; Gaz. vol. 178; p. 667.
Brewer, John W., Atlanta, Ga. Shade-roller-supporting device. No. 1,048,936; Dec. 31; Gaz. vol. 185; p. 1222.
Brewer, Joseph, New York, N. Y. Trunk-lock. No. 1,037,118; Aug. 27; Gaz. vol. 181; p. 1023.
Brewer, Richard F., *et al.* (See Kent, Victor E., assignor.)
Brewer, Thomas, Homestead, Fla. Rail-joint. No. 1,039,641; Sept. 24; Gaz. vol. 182; p. 925.
Brewer, Thomas M., parish of St. Marys, New Brunswick, assignor of one-half to P. A. Logan, St. John, Canada. Nut-lock. No. 1,025,676; May 7; Sp. p. 1265; Gaz. vol. 178; p. 196.
Brewer, William A., Pittsburgh, Pa. Aeroplane. No. 1,021,129; Mar. 26; Sp. p. 4501; Gaz. vol. 176; p. 830.
Brewer, William F., and A. Knobel, Louisville, Ky. Feed-guide for printing-presses. No. 1,038,487; Sept. 10; Gaz. vol. 182; p. 475.
Brewington, Henry S., Baltimore, Md., assignor to A. Kimball Company, New York, N. Y. Pin-ticket. No. 1,041,588; Oct. 15; Gaz. vol. 183; p. 709.
Brewster, Arthur P. (See Roberts and Brewster.)
Brewster, Charles A., Kaw, Okla. Folding chicken-coop. No. 1,033,666; July 23; Gaz. vol. 180; p. 1084.
Brewster, George A., New York, N. Y. Burglar-alarm attachment. No. 1,024,972; Apr. 30; Sp. p. 6940; Gaz. vol. 177; p. 1220.
Brewster, Guy O., Dover, N. J. Protector for use in boxing. No. 1,040,267; Oct. 8; Gaz. vol. 183; p. 228.
Brewster, William A., Winnipeg, Manitoba, Canada. Heating-drum. No. 1,025,736; May 7; Sp. p. 1390; Gaz. vol. 178; p. 217.
Brewton, Royal L. (See Whiteman and Brewton.)
Brian, David, Los Angeles, Cal. Steam-generator for liquid-fuel burners. No. 1,034,869; Aug. 6; Gaz. vol. 181; p. 158.
Briand, Charles C., Revere, Mass., assignor to Peter Gray & Sons. Lantern or lamp. No. 1,022,821; Apr. 9; Sp. p. 2293; Gaz. vol. 177; p. 392.
Brianne, Lucien, Paris, France. Apparatus for actuating flying-machines. No. 1,039,889; Oct. 1; Gaz. vol. 183; p. 73.
Brice, Walter S., Rochester, England. Brick-molding machinery. No. 1,027,315; May 21; Sp. p. 4919; Gaz. vol. 178; p. 828.
Brickell, William S. (See Tiedemann, Charles H., assignor.)
Bricker, Solon B., St. Paris, Ohio. Clock. No. 1,028,427; June 4; Sp. p. 800; Gaz. vol. 179; p. 121.
Briden, Robert, receiver in lunacy. (See Palmer, Charles.)
Bridenbaugh, Elmer H., Dayton, Ohio. Automatic pump-regulator. No. 1,024,179; Apr. 23; Sp. p. 5187; Gaz. vol. 177; p. 911.
Bridge, Edward V., Derry, Pa. Flexible ladder. No. 1,044,010; Nov. 12; Gaz. vol. 184; p. 370.
Bridgeport Brass Company. (See Stapley, William S., assignor.)
Bridgeport Foundry and Machine Company, The. (See Thompson, Charles E. A., assignor.)
Bridgeport Hardware Manufacturing Corporation, The. (See Hobbs, Willis F., assignor.)
Bridger, Herbert K. (See Hurst and Bridger.)
Bridges, Charles E., Chicago, assignor to Burgess-Norton Company, Geneva, Ill. Wheel-lock. No. 1,046,549; Dec. 10; Gaz. vol. 185; p. 301.
Bridges, George, *et al.* (See Buchanan, Frank L., assignor.)
Bridges, Isaac T. (See Benskin, Joseph, assignor.)
Bridges, John F., Alameda, Cal. Governor for gas or other engines. No. 1,016,543; Feb. 6; Sp. p. 731; Gaz. vol. 175; p. 107.
Bridges, Moscow E., Shubuta, Miss. Lamp burner and chimney. No. 1,029,971; June 18; Sp. p. 4156; Gaz. vol. 179; p. 720.
Bridges, William C., Wapello, Iowa. Street-indicator. No. 1,018,693; Feb. 27; Sp. p. 5476; Gaz. vol. 175; p. 950.
Bridges, William T., Los Angeles, Cal. Multiple-current motor. No. 1,034,683; Aug. 6; Gaz. vol. 181; p. 93.
Bridges, William W., Marine City, Mich. Lock for fluid-feed pipes. No. 1,024,180; Apr. 23; Sp. p. 5189; Gaz. vol. 177; p. 911.
Bridgforth, Hosy O., Alton, Mo. Safety-stirrup. No. 1,048,803; Dec. 31; Gaz. vol. 185; p. 1177.
Bridgman, Harry E., Barada, Nebr. Three-horse double-tree. No. 1,039,020; Sept. 17; Gaz. vol. 182; p. 692.
Bridgwater, Herbert E., assignor, by mesne assignments, to Secor Typewriter Company, Derby, Conn. Type-writing machine. No. 1,023,805; Apr. 23; Sp. p. 4320; Gaz. vol. 177; p. 783.
Bridgwater, Herbert E., assignor to Secor Typewriter Company, Derby, Conn. Detachable type-bar for writing-machines. No. 1,023,806; Apr. 23; Sp. p. 4326; Gaz. vol. 177; p. 783.
Briede, Otto, Benrath, Germany, assignor to E. Winter, Pittsburgh, Pa. Manufacture of tubes. (Reissue.) No. 13,473; Oct. 8; Gaz. vol. 183; p. 478.
Brierty, Michael J., Chicago, Ill. Thermostatically-controlled apparatus. No. 1,033,529; July 23; Gaz. vol. 180; p. 1039.
Briffaux, Raoul, Dienville, E. Brisson-Dauthel, and A. Gillot, Brienne-le-Chateau, France. Chain converter of flour. No. 1,043,754; Nov. 5; Gaz. vol. 184; p. 249.
Brigden, Arthur, Albertville, Ala. Disk cultivator. No. 1,031,518; July 2; Gaz. vol. 180; p. 233.
Brigg, Thomas H., Godstone, England. Railway-locomotive. No. 1,027,810; May 28; Sp. p. 5939; Gaz. vol. 178; p. 1031.
Briggs Beet Harvester Company. (See Briggs, Frank, assignor.)
Briggs, Charles L., Attleboro, Mass. Machine for cutting hand-holes. No. 1,023,619; Apr. 16; Sp. p. 3966; Gaz. vol. 177; p. 697.
Briggs, Daniel, New York, assignor to Wyckoff, Seamans & Benedict, Ilion, N. Y. Type-writing machine. No. 1,023,361; Apr. 16; Sp. p. 3436; Gaz. vol. 177; p. 614.
Briggs-Detroiter Company. (See Lee, William S., assignor.)
Briggs, Francis W., Hendrum, Minn. Pocket-case. No. 1,024,674; Apr. 30; Sp. p. 6330; Gaz. vol. 177; p. 1116.
Briggs, Frank, Leavenworth, Wash. Beet-topper. No. 1,027,399; May 28; Sp. p. 5104; Gaz. vol. 178; p. 896.
Briggs, Frank, Caro, Mich., assignor of one-half to C. E. Kenyon, Spokane, Wash. Engine-starter. No. 1,039,357; Sept. 24; Gaz. vol. 182; p. 825.
Briggs, Frank, Caro, Mich., assignor to Briggs Beet Harvester Company, Spokane, Wash. Beet-harvester. No. 1,046,550; Dec. 10; Gaz. vol. 185; p. 301.
Briggs, Frank H., Lorain, Ohio. Electrolytic cell. No. 1,036,554; Aug. 27; Gaz. vol. 181; p. 835.
Briggs, Frederick, Washington, D. C. Device for holding meat. No. 1,044,438; Nov. 12; Gaz. vol. 184; p. 515.
Briggs, George A., New York, N. Y. Lorgnette. No. 1,035,853; Aug. 20; Gaz. vol. 181; p. 558.
Briggs, George E., *et al.* (See Mayo, William C., assignor.)
Briggs, George W. (See Edwards and Briggs.)
Briggs, Henry, Hasbrouck Heights, assignor to United Shoe Machinery Company, Paterson, N. J. Looper mechanism for sewing-machines. No. 1,030,804; June 25; Sp. p. 6244; Gaz. vol. 179; p. 1054.
Briggs, Henry, Hasbrouck Heights, assignor, by mesne assignments, to United Shoe Machinery Company, Paterson, N. J. Sewing-machine. No. 1,030,867; July 2; Gaz. vol. 180; p. 6.
Briggs, Irving L., Newport, Del. Mechanical charging mechanism for smelting-furnaces and the like. No. 1,022,654; Apr. 9; Sp. p. 1908; Gaz. vol. 177; p. 333.
Briggs, Jesse A. (See Ralston and Briggs.)
Briggs, Joseph G., Santa Monica, Cal. Cultivator. No. 1,014,944; Jan. 16; Sp. p. 4148; Gaz. vol. 174; p. 698.
Briggs, Joseph W., Reward, Cal. Bracket attachment. No. 1,019,421; Mar. 5; Sp. p. 968; Gaz. vol. 176; p. 141.
Briggs, Judge B., and V. P. Hall, Labette, Kans. Telephone equipment. No. 1,025,366; May 7; Sp. p. 578; Gaz. vol. 178; p. 90.
Briggs, Stephen F., assignor to Briggs & Stratton Company, Milwaukee, Wis. Transformer attachment for spark-plugs. No. 1,038,277; Sept. 10; Gaz. vol. 182; p. 402.
Briggs, Stephen H. (See Salt, William A., assignor.)
Briggs & Stratton Company. (See Briggs, Stephen F., assignor.)
Briggs, Thomas G., Lexington, N. C. Wheel. No. 1,034,414; Aug. 6; Gaz. vol. 181; p. 5.
Briggs, Thomas L., Flushing, assignor to General Chemical Company, New York, N. Y. Acid-distributer. No. 1,032,657; July 16; Gaz. vol. 180; p. 708.
Briggs, Thomas L., Flushing, N. Y., and H. F. Merriam, Summit, N. J., assignors to General Chemical Company, New York, N. Y. Making oleum. No. 1,013,638; Jan. 2; Sp. p. 1187; Gaz. vol. 174; p. 190.

Alphabetical list of patentees—Continued.

Briggs, William J., Denver, Colo. Street-railway-track cleaner. No. 1,046,958; Dec. 10; Gaz. vol. 185; p. 442.
Brigham, O. S. (See Crawford, Clay, assignor.)
Bright Envelope Company. (See Novick, Abraham, assignor.)
Bright, Evan D., Philadelphia, Pa., assignor to The Connecticut Telephone & Electric Company, Incorporated, Meriden, Conn. Switch for jump-spark ignition systems. No. 1,028,536; June 4; Sp. p. 1030; Gaz. vol. 179; p. 157.
Bright, Graham, Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Locomotive-frame. No. 1,039,691; Oct. 1; Gaz. vol. 183; p. 6.
Bright, Martin C., assignor of one-half to C. W. Meikel, Indianapolis, Ind. Adjustable float-feed. No. 1,019,943; Mar. 12; Sp. p. 2007; Gaz. vol. 176; p. 347.
Bright, Robert, Jr., Aberdeen, Scotland, and J. M. W. Wright, Sunderland, England. Projecting-lantern. No. 1,026,019; May 14; Sp. p. 2017; Gaz. vol. 178; p. 348.
Bright, Warren H., Minneapolis, Minn. Tank-heater. No. 1,037,725; Sept. 3; Gaz. vol. 182; p. 184.
Bright, William W., Toledo, Ohio. Concrete insert. No. 1,035,525; Aug. 13; Gaz. vol. 181; p. 411.
Brightman, Latham H., Lakewood, Ohio. Machine for straightening metal bars. No. 1,015,473; Jan. 23; Sp. p. 5274; Gaz. vol. 174; p. 903.
Brightman, Latham H., Lakewood, Ohio. Straightening-machine. No. 1,017,645; Feb. 20; Sp. p. 3085; Gaz. vol. 175; p. 558.
Brighton Mills. (See Kelly, Timothy J., assignor.)
Brightwell, Walter J., Kilgore, Tex. Pipe-wrench. No. 1,048,937; Dec. 31; Gaz. vol. 185; p. 1222.
Brihaye, Médéric, Glageon, France. Boot or shoe. No. 1,021,819; Apr. 2; Sp. p. 149; Gaz. vol. 177; p. 26.
Briles, Benjamin R., Le Roy, Kans. Oil-burner. No. 1,041,732; Oct. 22; Gaz. vol. 183; p. 795.
Brill, Max. (See Morgenstern and Brill.)
Brinckerhoff, Francis M., New York, N. Y., assignor to National Pneumatic Company, Chicago, Ill. Combined door operating and locking device. No. 1,038,837; Sept. 17; Gaz. vol. 182; p. 632.
Brinckerhoff, Frank M., assignor to The Ellcon Company, New York, N. Y. Holding-sleeve for conduits. No. 1,037,200; Sept. 3; Gaz. vol. 182; p. 8.
Brinkerhoff, George F., Cuyahoga Falls, Ohio. Penholder. No. 1,045,810; Dec. 3; Gaz. vol. 185; p. 5.
Brindley, George F., San Francisco, Cal., assignor to The Roessler & Hasslacher Chemical Company, New York, N. Y. Apparatus for preparing oxone. No. 1,028,857; June 11; Sp. p. 1703; Gaz. vol. 179; p. 298.
Brine, John J., Lowell, Mass. Assorting and sizing machine. No. 1,022,655; Apr. 9; Sp. p. 1911; Gaz. vol. 177; p. 333.
Brink, Carl A., Bay Spring, R. I. Indicator and stop device. No. 1,021,820; Apr. 2; Sp. p. 151; Gaz. vol. 177; p. 26.
Brink, Charles L., assignor to W. K. Prudden and Company, Lansing, Mich. Wheelwright-machine. No. 1,038,838; Sept. 17; Gaz. vol. 182; p. 632.
Brink, Charles L., assignor to W. K. Prudden and Company, Lansing, Mich. Power-wrench. No. 1,039,642; Sept. 24; Gaz. vol. 182; p. 925.
Brink, Elroy B., New York, N. Y. Wrench. No. 1,042,762; Oct. 29; Gaz. vol. 183; p. 1176.
Brink, George B., South Lyon, Mich., assignor to Tufting Machine Supply Company, Chicago, Ill. Machine for sewing upholstered or tufted pads or cushions. No. 1,042,641; Oct. 29; Gaz. vol. 183; p. 1134.
Brink, George B., South Lyon, Mich., assignor to Tufting Machine Supply Company, Chicago, Ill. Upholstering-machine. No. 1,042,642; Oct. 29; Gaz. vol. 183; p. 1135.
Brink, John T., and E. Nordstrom, Topeka, Kans. Loose-leaf binder. No. 1,042,313; Oct. 22; Gaz. vol. 183; p. 990.
Brink, Lawrence C., Elmsford, N. Y. Device for placing concrete in forms. No. 1,036,068; Aug. 20; Gaz. vol. 181; p. 632.
Brink, Parley K., Liverpool, Pa. Bundle-tying device. No. 1,022,462; Apr. 9; Sp. p. 1503; Gaz. vol. 177; p. 269.
Brinkman, George C. (See Mecklem and Brinkman.)
Brinkman, Louis H., Glen Ridge, assignor to American Oil & Supply Company, Newark, N. J. Grinding and buffing wheel. No. 1,023,807; Apr. 23; Sp. p. 4328; Gaz. vol. 177; p. 783.
Brinkmann, Ernst, Steglitz-Berlin, Germany. Film-carrier. No. 1,034,967; Aug. 6; Gaz. vol. 181; p. 189.
Brinkop, Thomas D., Los Angeles, Cal. Swivel-union. No. 1,043,294; Nov. 5; Gaz. vol. 184; p. 88.
Brinks, Herman H., Grand Rapids, Mich. Vending-machine. No. 1,018,808; Feb. 27; Sp. p. 5731; Gaz. vol. 175; p. 989.
Brinley, Charles A., assignor to The American Pulley Company, Philadelphia, Pa. Pulley. No. 1,016,667; Feb. 6; Sp. p. 998; Gaz. vol. 175; p. 151.
Brinley, Charles A., assignor to The American Pulley Company, Philadelphia, Pa. Pulley. No. 1,016,668; Feb. 6; Sp. p. 999; Gaz. vol. 175; p. 151.
Brinser, Clinton. (See Welty and Brinser.)
Brinson, Brantley O., Columbus, Ga. Game apparatus. No. 1,033,227; July 23; Gaz. vol. 180; p. 940.
Brintnall, Thomas M., Oakland, assignor of one-half to W. D. Hammond, Los Angeles, Cal. Sidewalk-trap. No. 1,024,059; Apr. 23; Sp. p. 4907; Gaz. vol. 177; p. 869.
Brinton, Walter, and O. E. Brown, Wilmington, Del. Railway-track construction. No. 1,040,133; Oct. 1; Gaz. vol. 183; p. 155.
Brion, Harry O., Gates, N. Y. Street-indicator for cars. No. 1,025,780; May 7; Sp. p. 1470; Gaz. vol. 178; p. 232.
Brion, Harry O., Gates, N. Y. Safety device for pockets. No. 1,042,314; Oct. 22; Gaz. vol. 183; p. 991.
Briscoe Manufacturing Company. (See Beebe, John D., assignor.)
Briscoe Manufacturing Company. (See Williams, Charles A., assignor.)
Briscoe Manufacturing Company. (See Wood, Clarence S., assignor.)
Brisson-Dauthel, Eugène. (See Briffaux, Brisson-Dauthel, and Gillot.)
Brisson, George, Norway, Mich. Sleigh-brake. No. 1,019,944; Mar. 12; Sp. p. 2009; Gaz. vol. 176; p. 347.
Bristol Company, The. (See Bristol, William H., assignor.)
Bristol Company, The. (See Potts, Samuel W., assignor.)
Bristol, Edgar H., assignor to The Industrial Instrument Company, Foxboro, Mass. Chart-hub for recording instruments. No. 1,048,804; Dec. 31; Gaz. vol. 185; p. 1177.
Bristol, Harold B., Maplewood, Mo. Leaf-carrier for loose-leaf binders. No. 1,023,715; Apr. 16; Sp. p. 4128; Gaz. vol. 177; p. 724.
Bristol Jewelry Company. (See Pender, James E. P., assignor.)
Bristol, William H., assignor to The Bristol Company, Waterbury, Conn. Tachometer. No. 1,034,190; July 30; Gaz. vol. 180; p. 1292.
Bristol, William H., assignor to The Bristol Company, Waterbury, Conn. Pressure-gage. No. 1,045,770; Nov. 26; Gaz. vol. 184; p. 1041.
Bristol, William H., New York, N. Y., assignor to The Bristol Company, Waterbury, Conn. Differential-pressure recorder. No. 1,038,526; Sept. 17; Gaz. vol. 182; p. 522.
British-American Tobacco Company Limited. (See Bennett, George H., assignor.)
Britsch, Walter H., Fayette, Ohio. Sample-folder. No. 1,028,184; June 4; Sp. p. 288; Gaz. vol. 179; p. 37.
Britt, George B., *et al.* (See Bryant, William A., assignor.)
Brittain, George E., assignor to I. L. Keith, Haverhill, Mass. Holder for cementing soles. No. 1,016,544; Feb. 6; Sp. p. 732; Gaz. vol. 175; p. 108.
Brittain, Monroe. (See Darst and Brittain.)
Brittain, William A., Yolo, Cal. Hay-derrick. No. 1,035,311; Aug. 13; Gaz. vol. 181; p. 337.
Britten, William M., assignor of one-half to C. Harshman, Los Angeles, Cal. Rotary oil-burner. No. 1,022,122; Apr. 2; Sp. p. 782; Gaz. vol. 177; p. 124.
Britton, Charles S. (See Doyle, James E., assignor.)
Britton, Charles S. (See McCombs, Charles H., assignor.)
Britton, Francis M., Minot, N. D. Electric suction insect-trap. No. 1,029,972; June 18; Sp. p. 4157; Gaz. vol. 179; p. 720.
Brixey, Marshall O. (See Breder and Loyd, assignors.)
Brizzolara, Charles, Richmond, Va. Sag-preventing device for trolley-wires. No. 1,018,869; Feb. 27; Sp. p. 5853; Gaz. vol. 175; p. 1010.
Broach, Jefferson T., Deep Creek, Va. Axle-bearing. No. 1,047,374; Dec. 17; Gaz. vol. 185; p. 619.
Broadaway, Fred V., Hubbard, Tex. Valve mechanism for steam-engines. No. 1,016,393; Feb. 6; Sp. p. 346; Gaz. vol. 175; p. 55.
Broadhurst, Charles F., Vancouver, British Columbia, Canada. Means for cleaning chimney-flues. No. 1,030,456; June 25; Sp. p. 5222; Gaz. vol. 179; p. 929.
Broadhurst, George. (See Lewis and Broadhurst.)
Broadmore, Grant, Brighton, Mich. Spirit-level. No. 1,017,646; Feb. 20; Sp. p. 3088; Gaz. vol. 175; p. 558.
Broadwater, John W., Philadelphia, Pa. Water-saving valve. No. 1,020,184; Mar. 12; Sp. p. 2510; Gaz. vol. 176; p. 427.
Brobst, John E., Schenectady, N. Y., assignor to General Electric Company. Motor-control system. No. 1,043,799; Nov. 12; Gaz. vol. 184; p. 296.
Broc Electric Vehicle Company, The. (See Brand, Frederick A., assignor.)
Brochu, Arsine, Franklin, N. H. Stove attachment. No. 1,034,191; July 30; Gaz. vol. 180; p. 1292.
Brochu, John B., assignor of one-half to A. Brouillard, Bridgewater, Mass. Laundry-cabinet. No. 1,029,585; June 18; Sp. p. 3280; Gaz. vol. 179; p. 584.
Brock, Clayton A. (See Lewis, William M., assignor.)
Brock, Frank W., Chatham, Ill. Advertising device. No. 1,027,811; May 28; Sp. p. 5943; Gaz. vol. 178; p. 1031.
Brock, Henry, Gillespie, Ill. Velocipede or four-wheeled vehicle. No. 1,018,405; Feb. 27; Sp. p. 4809; Gaz. vol. 175; p. 852.
Brock, Matthias, Boston, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Lasting-machine. No. 1,018,477; Feb. 27; Sp. p. 4957; Gaz. vol. 175; p. 876.

Alphabetical list of patentees—Continued.

Brock, Matthias, Boston, Mass., assignor, by mesne assignments, to United Shoe Machinery Company. Lasting-machine. No. 1,019,125; Mar. 5; Sp. p. 260; Gaz. vol. 176; p. 41.
Brock, Matthias, Boston, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Lasting-machine. No. 1,021,860; Apr. 2; Sp. p. 235; Gaz. vol. 177; p. 38.
Brock, Matthias, Boston, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. End-lasting mechanism. No. 1,030,562; June 25; Sp. p. 5518; Gaz. vol. 179; p. 966.
Brock, Matthias, Boston, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Shoe. No. 1,030,563; June 25; Sp. p. 5522; Gaz. vol. 179; p. 966.
Brock, Matthias, Boston, Mass., assignor, by mesne assignments, to United Shoe Machinery Company, Paterson, N. J. Lasting-machine. No. 1,030,564; June 25; Sp. p. 5524; Gaz. vol. 179; p. 966.
Brock, Richard E., Monessen, assignor to Pittsburgh Steel Products Co., Pittsburgh, Pa. Rolling tubing. No. 1,040,134; Oct. 1; Gaz. vol. 183; p. 155.
Brock, Richard E., and W. M. Selkirk, Monessen, assignors to Pittsburgh Steel Products Company, Pittsburgh, Pa. Tube-rolling apparatus. No. 1,020,399; Mar. 19; Sp. p. 2945; Gaz. vol. 176; p. 535.
Brock, Richard E., and W. M. Selkirk, Monessen, assignors to Pittsburgh Steel Products Company, Pittsburgh, Pa. Tube-rolling apparatus. No. 1,046,436; Dec. 10; Gaz. vol. 185; p. 259.
Brock, William E., and S. H. Hubbard, Chattanooga, Tenn. Packing-table. No. 1,028,670; June 4; Sp. p. 1305; Gaz. vol. 179; p. 201.
Brocke, Gerhard, Allegheny, Pa. Valve. No. 1,016,064; Jan. 30; Sp. p. 6537; Gaz. vol. 174; p. 1136.
Brockett, Frederick G., Chicago, Ill. Electromagnetic winding and rewinding mechanism. No. 1,043,900; Nov. 12; Gaz. vol. 184; p. 331.
Brockhurst, James B., Red Bank, N. J. Means for feeding and mixing fluids. No. 1,014,945; Jan. 16; Sp. p. 4149; Gaz. vol. 174; p. 698.
Brockhurst, James B., Red Bank, N. J. Razor-stropping device. No. 1,015,938; Jan. 30; Sp. p. 6256; Gaz. vol. 174; p. 1090.
Brockmeyer, Henry, Irving, Kans. Disk-supporting arm. No. 1,035,776; Aug. 13; Gaz. vol. 181; p. 494.
Brockmeyer, Henry, Irving, Kans. Disk-supporting arm. No. 1,043,666; Nov. 5; Gaz. vol. 184; p. 219.
Brockschmitt, Edward, *et al.* (See Pugh, Cortez V., assignor.)
Brockway, Earl A., Marienville, Pa. Curtain-pole. No. 1,029,973; June 18; Sp. p. 4158; Gaz. vol. 179; p. 720.
Brockway, Herbert L., assignor to M. D. Knowlton Company, Rochester, N. Y. Stay-strip wiper for box-staying machines. No. 1,038,839; Sept. 17; Gaz. vol. 182; p. 633.
Brockway, Scott A., Laurel, Nebr. Brush. No. 1,045,669; Nov. 26; Gaz. vol. 184; p. 1007.
Brode, Johannes. (See Schönherr and Brode.)
Broden, Edwin H., Edgewood Park, and J. G. Mustin, Wilkinsburg, Pa., assignors to The American Steel & Wire Company of New Jersey, Hoboken, N. J. Collapsible reel. No. 1,017,130; Feb. 13; Sp. p. 2006; Gaz. vol. 175; p. 345.
Broden, Edwin H., Edgewood Park, and J. G. Mustin, Wilkinsburg, Pa., assignors to The American Steel & Wire Company of New Jersey, Hoboken, N. J. Metallic reel. No. 1,020,078; Mar. 12; Sp. p. 2276; Gaz. vol. 176; p. 392.
Broden, Edwin H., Edgewood Park, and J. G. Mustin, Wilkinsburg, Pa., assignors to The American Steel & Wire Company of New Jersey, Hoboken, N. J. Reel. No. 1,020,079; Mar. 12; Sp. p. 2277; Gaz. vol. 176; p. 392.
Broderick, Daniel, New York, N. Y. Furnace-charging apparatus. No. 1,043,395; Nov. 5; Gaz. vol. 184; p. 125.
Broderick, John K., St. Louis, Mo. Combined internal-combustion and compressed-air engine. No. 1,013,528; Jan. 2; Sp. p. 955; Gaz. vol. 174; p. 153.
Brodie, Alexander B., Pittsburgh, Pa. Container and dispensing device. No. 1,013,120; Jan. 2; Sp. p. 58; Gaz. vol. 174; p. 12.
Brodie, James H., Henderson, N. C. Mixer. No. 1,027,982; May 28; Sp. p. 6351; Gaz. vol. 178; p. 1090.
Brodton, Edward R., assignor of one-half to J. A. Gartland, Boston, Mass., and one-fourth to R. M. Stephens, Hackettstown, N. J. Automobile starting device. No. 1,024,394; Apr. 23; Sp. p. 5599; Gaz. vol. 177; p. 982.
Brody, Leon, New York, N. Y. Safety-pin. No. 1,024,717; Apr. 30; Sp. p. 6420; Gaz. vol. 177; p. 1131.
Broehl, Julius. (See Hamilton, Charles A., assignor.)
Broemme, Eduard, St. Petersburg, Russia, and R. Steinau, Nuremberg, Germany. Recovering zinc from galvanized-iron articles. No. 1,042,315; Oct. 22; Gaz. vol. 183; p. 991.
Broemmelsiek, Edgar W., *et al.* (See Brown, Harvey E., assignor.)
Broemmelsiek, John F., *et al.* (See Brown, Harvey E., assignor.)
Broga, William W., Springfield, Mass. Resilient tire for vehicle-wheels. No. 1,034,078; Aug. 6; Gaz. vol. 181; p. 225.
Brogan, Michael F., Lawrence, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Cementing-machine. No. 1,013,735; Jan. 2; Sp. p. 1421; Gaz. vol. 174; p. 224.
Brogan, Michael F., Lawrence, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Cementing-machine. No. 1,030,769; June 25; Sp. p. 6129; Gaz. vol. 179; p. 1041.
Brogden, David C., Paragould, Ark. Wire-clamp for wire-stretching machines. No. 1,024,825; Apr. 30; Sp. p. 6647; Gaz. vol. 177; p. 1170.
Brogden, Fay A. (See Morey and Brogden.)
Brokaw-Eden Mfg. Co. (See Eden, Harold W., assignor.)
Broman, Peter, assignor to Beaver Dam Manufacturing Company, Beaver Dam, Wis. Grain-drill. No. 1,022,530; Apr. 9; Sp. p. 1639; Gaz. vol. 177; p. 291.
Brombacher, Julius, Los Angeles, Cal. Door-operating mechanism. No. 1,014,367; Jan. 9; Sp. p. 2856; Gaz. vol. 174; p. 472.
Bromhead, John S., New York, N. Y. Non-refillable bottle. No. 1,018,960; Feb. 27; Sp. p. 6040; Gaz. vol. 175; p. 1041.
Bromley, John M., New York, N. Y. Shoe-measure. No. 1,017,201; Feb. 13; Sp. p. 2163; Gaz. vol. 175; p. 360.
Bronnert, Emile, Niedermorschweiler, assignor to Vereinigte Glanzstoff-Fabriken A. G., Elberfeld, Germany. Recovering ammonia in the cuprammonium cellulose precipitation. No. 1,023,548; Apr. 16; Sp. p. 3811; Gaz. vol. 177; p. 672.
Bronnert, Emile, Niedermorschweiler, near Mülhausen, assignor to Vereinigte Glanzstoff-Fabriken A.-G., Elberfeld, Germany. Transforming formyl esters of cellulose or solutions of the same into stable plastic solutions. No. 1,029,341; June 11; Sp. p. 2771; Gaz. vol. 179; p. 467.
Bronnert, Emil, Niedermorschweiler, near Mülhausen, and M. Fremery, Oberbruch, Germany. Producing cellulose products. No. 1,030,251; June 18; Sp. p. 4739; Gaz. vol. 179; p. 816.
Bronnert, Emil, Niedermorschweiler, assignor to Vereinigte Glanzstoff-Fabriken A. G., Elberfeld, Germany. Producing formylcelluloses. No. 1,046,729; Dec. 10; Gaz. vol. 185; p. 365.
Bronnert, Emile, Niedermorschweiler, assignor to Vereinigte Glanzstoff-Fabriken A. G., Elberfeld, Germany. Recovering copper from the wash liquors employed in the cuprammonia-cellulose process. No. 1,049,201; Dec. 31; Gaz. vol. 185; p. 1312.
Brönnle, Hermann. (See Buderer, Brönnle, and Reich.)
Bronson, Clarence P., Corning, N. Y., assignor of one-fourth to K. E. Griswold and one-fourth to H. L. Griswold. Socket-wrench. No. 1,034,383; July 30; Gaz. vol. 180; p. 1360.
Bronson, Julius H. (See Morey, Leonard D., assignor.)
Brook, Harley M., Saginaw, Mich. Adjustable folding hurdle. No. 1,044,128; Nov. 12; Gaz. vol. 184; p. 410.
Brookbank, James O., Driftwood, Pa. Burner. No. 1,032,811; July 16; Gaz. vol. 180; p. 761.
Brooke, George, assignor of one-half to C. Bomeisler, New York, N. Y. Molding socket and plug. No. 1,043,054; Oct. 29; Gaz. vol. 183; p. 1277.
Brooke, Isaac, Pottstown, Pa. Stove. No. 1,017,241; Feb. 13; Sp. p. 2258; Gaz. vol. 175; p. 384.
Brooke, Isidore, New York, N. Y. Instrument for holding eyeglasses. No. 1,045,119; Nov. 26; Gaz. vol. 184; p. 811.
Brooke, Robert G., Macclesfield, England. Steam-injector. No. 1,030,714; June 25; Sp. p. 5991; Gaz. vol. 179; p. 1021.
Brooker, William H., Philadelphia, Pa. Blouse. No. 1,043,505; Nov. 5; Gaz. vol. 184; p. 166.
Brookes, Fred M., Fayetteville, Ark. Winding and measuring machine. No. 1,024,246; Apr. 23; Sp. p. 5344; Gaz. vol. 177; p. 936.
Brookfield, Theodore, Kamloops, British Columbia, Canada. Hose-pipe coupling. No. 1,038,840; Sept. 17; Gaz. vol. 182; p. 633.
Brookins, William L., Telluride, Colo. Rock-drill. No. 1,036,180; Aug. 20; Gaz. vol. 181; p. 672.
Brookman, Thomas M., Elmira, N. Y. Cover for ironing-boards. No. 1,035,683; Aug. 13; Gaz. vol. 181; p. 464.
Brooks, Arthur A., Ashton-upon-Mersey, England. Fluid-operating mechanism. No. 1,013,121; Jan. 2; Sp. p. 60; Gaz. vol. 174; p. 12.
Brooks, Asa P., Regina, Saskatchewan, Canada, and C. N. Galland, assignors to Multi-Color Attachment Company, Minneapolis, Minn. Color-printing attachment for printing-presses. No. 1,040,268; Oct. 8; Gaz. vol. 183; p. 229.
Brooks, Byron A., New York, N. Y., assignor, by mesne assignments, to Union Typewriter Company, Jersey City, N. J. Type-writing machine. No. 1,025,943; May 7; Sp. p. 1860; Gaz. vol. 178; p. 287.
Brooks, Edward J., East Orange, N. J. Snap-seal. No. 1,017,950; Feb. 20; Sp. p. 3821; Gaz. vol. 175; p. 663.
Brooks, Edward J., East Orange, N. J. Snap-seal. No. 1,026,943; May 21; Sp. p. 4120; Gaz. vol. 178; p. 702.
Brooks, Edward J., East Orange, N. J. Snap-seal. No. 1,027,812; May 28; Sp. p. 5945; Gaz. vol. 178; p. 1032.
Brooks, Edward J., East Orange, N. J. Snap-seal. No. 1,030,457; June 25; Sp. p. 5223; Gaz. vol. 179; p. 929.

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Brooks, Edward J., East Orange, N. J. Snap-seal. No. 1,030,458; June 25; Sp. p. 5225; Gaz. vol. 179; p. 930.
Brooks, Edward J., East Orange, N. J. Snap-seal. No. 1,035,526; Aug. 13; Gaz. vol. 181; p. 412.
Brooks, Edward J., East Orange, N. J. Snap-seal. No. 1,038,082; Sept. 10; Gaz. vol. 182; p. 337.
Brooks, Elbert J., Sparta, Wis. Hand-cultivator. No. 1,014,045; Jan. 9; Sp. p. 2146; Gaz. vol. 174; p. 358.
Brooks, Frank M., New York, N. Y. Globe-holder. No. 1,036,791; Aug. 27; Gaz. vol. 181; p. 913.
Brooks, Frederick W., Virginia, Minn. Furnace-door mouthpiece. No. 1,020,882; Mar. 19; Sp. p. 3993; Gaz. vol. 176; p. 696.
Brooks, George L., Seattle, Wash. Insulated platform. No. 1,026,380; May 14; Sp p. 2858; Gaz. vol. 178; p. 474.
Brooks, Gilbert H. (See Proffitt and Brooks.)
Brooks, Guy E., Daphne, Ala. Tuning device. No. 1,041,422; Oct. 15; Gaz. vol. 183; p. 656.
Brooks, Henry K., Topeka, Kans. Follower-board. No. 1,030,277; June 25; Sp. p. 4828; Gaz. vol. 179; p. 864.
Brooks, Howard W., and S. F. Krupp, Memphis, Tenn. Resilient wheel. No. 1,016,871; Feb. 6; Sp. p. 1410; Gaz. vol. 175; p. 218.
Brooks, James E., *et al.* (See Van Derwerken, Theodore E., assignor.)
Brooks, James M., Molena, Ga. Excavator. No. 1,018,160; Feb. 20; Sp. p. 4292; Gaz. vol. 175; p. 737.
Brooks, Jeptha, *et al.* (See Hall, Frank M., assignor.)
Brooks, Joseph L., New York, N. Y. Hair-tonic and compounding same. No. 1,037,425; Sept. 3; Gaz. vol. 182; p. 84.
Brooks, Lewis M. (See Shaw, Elbridge G., assignor.)
Brooks, Reuben, Gloucester, Mass. Marine harvester. No. 1,028,671; June 4; Sp. p. 1308; Gaz. vol. 179; p. 201.
Brooks, Robert A., Chicago, Ill. Surface discharge apparatus for tanks. No. 1,040,872; Oct. 8; Gaz. vol. 183; p. 436.
Brooks, Robert L., Beaukiss, Tex. Plumb-level. No. 1,035,944; Aug. 20; Gaz. vol. 181; p. 590.
Brooks, Robert W., Louisville, Ky., assignor to R. A. Wendling, Maroa, Ill. Cider-mill. No. 1,037,726; Sept. 3; Gaz. vol. 182; p. 184.
Brooks, William S., San Diego, Cal. Non-reusable bottle. No. 1,040,500; Oct. 8; Gaz. vol. 183; p. 309.
Brooks, Winfred M., East Orange, N. J., assignor to E. J. Brooks & Co., New York, N. Y. Snap-seal. No. 1,013,836; Jan. 2; Sp. p. 1624; Gaz. vol. 174; p. 259.
Brooks, Winfred M., East Orange, N. J., assignor to E. J. Brooks & Co., New York, N. Y. Snap-seal. No. 1,039,358; Sept. 24; Gaz. vol. 182; p. 826.
Broom, Edward, Glasgow, Scotland. Photographic enlarging apparatus. No. 1,034,968; Aug. 6; Gaz. vol. 181; p. 190.
Broomall, Edgar W. (See Rein and Broomall.)
Broomall, Samuel E., Wilmington, Del. Post-hole digger. No. 1,030,713; June 25; Sp. p. 5989; Gaz. vol. 179; p. 1021.
Brophy, Edward. (See Bell and Brophy.)
Brophy, Reuben C., Elgin, Ill., assignor to The Ransom & Randolph Company, Toledo, Ohio. Vacuum casting device. No. 1,030,868; July 2; Gaz. vol. 180; p. 6.
Bropson, James, assignor of one-half to J. A. Mangan, Cleveland, Ohio. Tire. No. 1,027,983; May 28; Sp. p. 6354; Gaz. vol. 178; p. 1091.
Brorby, Jacob I., Shenandoah, Iowa. Street-flushing machine. No. 1,019,126; Mar. 5; Sp. p. 269; Gaz. vol. 176; p. 41.
Brossia, Oliver D., Perrysburg, Ohio. Culinary article. No. 1,045,252; Nov. 26; Gaz. vol. 184; p. 858.
Brostrom, Fredrick, San Francisco, Cal. Re-forming controller-handles. No. 1,030,160; June 18; Sp. p. 4535; Gaz. vol. 179; p. 783.
Brothers, Eli, Lynn, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Pulling-over machine. No. 1,017,736; Feb. 20; Sp. p. 3277; Gaz. vol. 175; p. 587.
Brothers, Eli, Lynn, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Last. No. 1,021,821; Apr. 2; Sp. p. 157; Gaz. vol. 177; p. 26.
Brothers, Eli, Lynn, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Pulling-over machine. No. 1,044,483; Nov. 19; Gaz. vol. 184; p. 561.
Brothers, Elmer D., Chicago, Ill. Driving mechanism. No. 1,044,129; Nov. 12; Gaz. vol. 184; p. 410.
Brotz, Anton, Sheboygan, Wis., assignor to J. M. Kohler Sons Company. Unloader for conveyers. No. 1,045,939; Dec. 3; Gaz. vol. 185; p. 49.
Brough, Rupert L., Middlebury, Vt. Flying-machine. No. 1,022,018; Apr. 2; Sp. p. 572; Gaz. vol. 177; p. 90.
Broughton, Walter C., Kansas City, Mo. Knockdown concrete building. No. 1,048,938; Dec. 31; Gaz. vol. 185; p. 1222.
Broughton, Winn E., assignor to The Turner Tanning Machinery Company, Peabody, Mass. Press. No. 1,028,324; June 4; Sp. p. 567; Gaz. vol. 179; p. 84.
Brouillard, Albert. (See Brochu, John B., assignor.)
Broussard, Fernand A., Carencro, La. Stove and furnace. No. 1,028,928; June 11; Sp. p. 1878; Gaz. vol. 179; p. 324.
Broussard, James, Loreauville, La. Bag-filling machine. No. 1,014,444; Jan. 9; Sp. p. 3003; Gaz. vol. 174; p. 498.
Broussard, James, Loureauville, La. Bag-filling machine. No. 1,025,781; May 7; Sp. p. 1474; Gaz. vol. 178; p. 233.
Brousson, Robert P., assignor to Automatic Electric Block Signalling Company, Limited, London, England. Automatic electrical signaling apparatus for railways. No. 1,015,778; Jan. 30; Sp. p. 5917; Gaz. vol. 174; p. 1036.
Broussouse, Fernand, Liege, Belgium. Screw-propeller. No. 1,021,822; Apr. 2; Sp. p. 158; Gaz. vol. 177; p. 26.
Brouyette, Arnold J., Shadyside, Ohio. Tongs. No. 1,013,122; Jan. 2; Sp. p. 63; Gaz. vol. 174; p. 13.
Browalski, Frank. (See Loewer, John C., assignor.)
Browalski, Frank, Worden, Ill. Iron arm and knob. No. 1,036.437; Aug. 20; Gaz. vol. 181; p. 762.
Brower, Abraham T. H., Chicago, Ill. Bed-and-cylinder printing-press. No. 1,029,100; June 11; Sp. p. 2244; Gaz. vol. 179; p. 383.
Brower, Abraham T. H., Chicago, Ill. Printing-press. No. 1,040,501; Oct. 8; Gaz. vol. 183; p. 309.
Brower, Ollie F., Eaton, Ohio. Hose-supporter. No. 1,019,880; Mar. 12; Sp. p. 1866; Gaz. vol. 176; p. 326.
Brown, Aaron A., Roland Park, Md. Nut-lock. No. 1,017,845; Feb. 20; Sp. p. 3571; Gaz. vol. 175; p. 626.
Brown, Abia W., Fredonia, Ariz. Flood-gate. No. 1,033,530; July 23; Gaz. vol. 180; p. 1040.
Brown, Ada H., Chicago, Ill. Game. No. 1,036,438; Aug. 20; Gaz. vol. 181; p. 762.
Brown, Alexander A., Luzern, Rutherglen, Scotland. Means for packing and testing incandescent electric globes. No. 1,034,762; Aug. 6; Gaz. vol. 181; p. 121.
Brown, Alexander A., Rutherglen, Scotland. Incandescent-mantle box. No. 1,041,733; Oct. 22; Gaz. vol. 183; p. 795.
Brown, Alexander M. (See McCloy and Brown.)
Brown, Alexander T., Syracuse, N. Y. Type-writing machine. No. 1,023,808; Apr. 23; Sp. p. 4330; Gaz. vol. 177; p. 784.
Brown, Alexander T., Syracuse, N. Y. Type-writing machine. No. 1,029,101; June 11; Sp. p. 2248; Gaz. vol. 179; p. 384.
Brown, Alexander T., Syracuse, N. Y. Type-writing machine. No. 1,030,500; June 25; Sp. p. 5331; Gaz. vol. 179; p. 944.
Brown, Alvin B., Riverside, Cal. Saw-tool. No. 1,020,257; Mar. 12; Sp. p. 2660; Gaz. vol. 176; p. 451.
Brown, Andrew V., Philadelphia, Pa. Eyeglass-mounting. No. 1,014,116; Jan. 9; Sp. p. 2297; Gaz. vol. 174; p. 383.
Brown, Andrew V., Philadelphia, Pa. Arm for supporting the nose-grips of eyeglasses. No. 1,019,018; Mar. 5; Sp. p. 11; Gaz. vol. 176; p. 5.
Brown, Anthony T., *et al.* (See Brown, Frederic W., assignor.)
Brown, Arthur O., Chicago, Ill. Compressed-air water-elevator. No. 1,032,272; July 9; Gaz. vol. 180; p. 533.
Brown Automatic Indicator Company. (See Brown, George, assignor.)
Brown & Bailey Company. (See Bailey, Edward L., assignor.)
Brown & Bailey Company. (See Brown, Robert P., assignor.)
Brown, Bartley, Fort Worth, Tex. Plow-frame. No. 1,018,094; Feb. 20; Sp. p. 4154; Gaz. vol. 175; p. 714.
Brown, Bartley, Fort Worth, Tex. Tongue. No. 1,042,763; Oct. 29; Gaz. vol. 183; p. 1177.
Brown, Benjamin R., Chilhowee, Mo. Churn. No. 1,033,667; July 23; Gaz. vol. 180; p. 1085.
Brown, Bessie K. and T., Brixton, London, assignors to C. Urban, London, England. Producing kinematograph-films. No. 1,034,192; July 30; Gaz. vol. 180; p. 1292.
Brown, Braselton T., Indianapolis, Ind. Baler. No. 1,027,393; May 21; Sp. p. 5085; Gaz. vol. 178; p. 855.
Brown, Carl E., Columbus, Ohio. Fuel-oil burner. No. 1,034,577; Aug. 6; Gaz. vol. 181; p. 59.
Brown, Chalmers S., assignor to The Buckeye Traction Ditcher Company, Findlay, Ohio. Excavating-machine. No. 1,016,127; Jan. 30; Sp. p. 6659; Gaz. vol. 174; p. 1158.
Brown, Charles, Chicago, Ill. Submarine signaling and safety device. No. 1,028,989; June 11; Sp. p. 2002; Gaz. vol. 179; p. 345.
Brown, Charles D. (See Belton, Guy M., assignor.)
Brown, Charles D., Washington, Ill. Apparatus for blowing sand from railway-tracks. No. 1,021,655; Mar. 26; Sp. p. 5616; Gaz. vol. 176; p. 1010.
Brown, Charles D., Ames, Iowa. Waterproofing. No. 1,049,202; Dec. 31; Gaz. vol. 185; p. 1312.
Brown, Charles E., New Kensington, Pa. Door-arch for furnaces. No. 1,044,130; Nov. 12; Gaz. vol. 184; p. 410.
Brown, Charles E., Norway, Me. Meat-tenderer. No. 1,048,288; Dec. 24; Gaz. vol. 185; p. 959.
Brown, Charles F. (See Myers, Elmer J., assignor.)
Brown, Charles H., New York, N. Y., assignor of one-third to E. D. Ferguson and one-third to E. W. Ferguson, Bayonne, N. J. Curling-iron protector. No. 1,023,716; Apr. 16; Sp. p. 4131; Gaz. vol. 177; p. 725.
Brown, Charles K., Malden, Mass. Shingling-gage. No. 1,047,613; Dec. 17; Gaz. vol. 185; p. 703.

Alphabetical list of patentees—Continued.

Brown, Charles L. (See Strauss and Brown.)
Brown, Charles S., and J. C. Hoxie, Utica, N. Y. Heater. No. 1,013,271; Jan. 2; Sp. p. 397; Gaz. vol. 174; p. 64.
Brown, Charles T. (See Hannerty, James J., assignor.)
Brown, Charles W., Johnstown, Pa. Kindling device. No. 1,044,131; Nov. 12; Gaz. vol. 184; p. 410.
Brown, Charles W., and O. W. Brenizer, Philadelphia, Pa. Garment-hanger. No. 1,013,583; Jan. 2; Sp. p. 1060; Gaz. vol. 174; p. 171.
Brown, Clarence D., Owensboro, Ky. Tobacco-drying apparatus. No. 1,017,951; Feb. 20; Sp. p. 3822; Gaz. vol. 175; p. 663.
Brown, Clarence F. (See Rue and Brown.)
Brown, Clark J., Petersburg, Va. Corner guiding screen-frame bracket. No. 1,036,439; Aug. 20; Gaz. vol. 181; p. 762.
Brown, Claude, Attica, Ind. Springless door-lock. No. 1,037,588; Sept. 3; Gaz. vol. 182; p. 138.
Brown, Clement, Birmingham, England. Carbureter. No. 1,042,077; Oct. 22; Gaz. vol. 183; p. 913.
Brown, Clement, Birmingham, England. Carbureter. No. 1,042,528; Oct. 29; Gaz. vol. 183; p. 1094.
Brown, Daniel V., Philadelphia, Pa. Eyeglass-mounting. No. 1,014,205; Jan. 9; Sp. p. 2461; Gaz. vol. 174; p. 414.
Brown, Daniel V., Philadelphia, Pa. Finger-piece eyeglass-mounting. No. 1,031,319; July 2; Gaz. vol. 180; p. 166.
Brown, Daniel W., Colesburg, Tenn. Tanning compound. No. 1,036,958; Aug. 27; Gaz. vol. 181; p. 969.
Brown, Delmont S., Watertown, N. Y. Device for measuring draft-animals for collars. No. 1,031,519; July 2; Gaz. vol. 180; p. 233.
Brown, Earl D., Kalispell, Mont. Railway-switch. No. 1,048,489; Dec. 31; Gaz. vol. 185; p. 1066.
Brown, Edgar W., Dayton, Ohio. Electric motor. No. 1,034,069; July 30; Gaz. vol. 180; p. 1250.
Brown, Edmund E., Bloomington, Ill., assignor, by mesne assignments, to Southern Iron and Steel Company. Wire-fence machine. No. 1,025,858; May 7; Sp. p. 1632; Gaz. vol. 178; p. 259.
Brown, Edward, Owensboro, Ky. Paper-hanging machine. No. 1,044,484; Nov. 19; Gaz. vol. 184; p. 562.
Brown, Edward C., Rochester, N. Y. Spray-nozzle. No. 1,029,909; June 18; Sp. p. 4028; Gaz. vol. 179; p. 699.
Brown, Edward W., Forest Gate, England. Contrivance for intermittently displaying sheets. No. 1,022,179; Apr. 2; Sp. p. 905; Gaz. vol. 177; p. 144.
Brown, Ellis M., Roanoke, Va. Match-scratcher. No. 1,015,666; Jan. 23; Sp. p. 5680; Gaz. vol. 174; p. 971.
Brown, Elmer H. (See Williams and Brown.)
Brown, Eric, and J. Baasch, assignors to Aktiengesellschaft Brown, Boveri & Cie., Baden, Switzerland. Steam-turbine installation. No. 1,047,740; Dec. 17; Gaz. vol. 185; p. 748.
Brown, Eugene, assignor to Colfax Manufacturing Company, Colfax, Wash. Hoisting apparatus. No. 1,026,901; May 21; Sp. p. 3999; Gaz. vol. 178; p. 687.
Brown, Frank, Atlantic City, N. J. Wave-motor. No. 1,018,161; Feb. 20; Sp. p. 4294; Gaz. vol. 175; p. 737.
Brown, Frank H. and F. H., Portland, Oreg. Car or carrier for elevating apparatus. No. 1,037,119; Aug. 27; Gaz. vol. 181; p. 1024.
Brown, Frank S., Baltimore, Md. Oil-cup. No. 1,038,488; Sept. 10; Gaz. vol. 182; p. 475.
Brown, Fred, Laketon, Mich. Insulator. No. 1,048,390; Dec. 24; Gaz. vol. 185; p. 994.
Brown, Fred H. (See Brown, Frank H. and F. H.)
Brown, Frederic W., New Orleans, La., assignor of one-fourth to A. T. Brown, Atlanta, Ga., and three-twentieths to L. M. Brown, New Orleans, La. Spring-wheel. No. 1,047,741; Dec. 17; Gaz. vol. 185; p. 748.
Brown, Frederick O., St. Louis, Mo. Cushion-innersole for shoes. No. 1,034,763; Aug. 6; Gaz. vol. 181; p. 122.
Brown, Frederick W., Florence, Colo., assignor of one-half to L. M. Schmidt, Hartford, Conn. Manufacture of hydraulic cement. No. 1,033,984; July 30; Gaz. vol. 180; p. 1220.
Brown, Frederick W., Florence, and G. W. Bartholomew, Denver, Colo. Hydraulic cement. No. 1,020,124; Mar. 12; Sp. p. 2380; Gaz. vol. 176; p. 407.
Brown, George, Sarnia, Ontario, Canada, assignor to Brown Automatic Indicator Company, Port Huron, Mich. Indicator. No. 1,048,032; Dec. 24; Gaz. vol. 185; p. 873.
Brown, George A., Pittsburgh, Pa. Flushing-valve. No. 1,044,439; Nov. 12; Gaz. vol. 184; p. 516.
Brown, George H., *et al.* (See Adsit, Charles G., assignor.)
Brown, George H., Jefferson, Tex. Wood-sawing machine. No. 1,023,296; Apr. 16; Sp. p. 3315; Gaz. vol. 177; p. 593.
Brown, George M., assignor of forty-nine one-hundredths to C. M. Stockwell, San Bernardino, Cal. Folding crate. No. 1,036,555; Aug. 27; Gaz. vol. 181; p. 835.
Brown, George R., W. L. and B. Clayton, Oklahoma, Okla. Bat-accumulator. No. 1,048,289; Dec. 24; Gaz. vol. 185; p. 959.
Brown, George V. A., Chicago, Ill. Railway-toilet. No. 1,019,593; Mar. 5; Sp. p. 1312; Gaz. vol. 176; p. 197.
Brown, George W., Ledgedale, Pa. Rotary engine. No. 1,040,135; Oct. 1; Gaz. vol. 183; p. 155.
Brown, George W., and J. J. Kennedy, San Francisco, Cal.; said Kennedy assignor to said Brown. Rod-bender. No. 1,046,257; Dec. 3; Gaz. vol. 185; p. 160.
Brown, Gideon P. (See Bayer and Brown.)
Brown, Gus. (See Brown, Robert L. and G.)
Brown, Harold P., Montclair, N. J. Magnetic rail-bonding clamp. No. 1,023,921; Apr. 23; Sp. p. 4619; Gaz. vol. 177; p. 822.
Brown, Harold W., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electric measuring instrument. No. 1,013,123; Jan. 2; Sp. p. 64; Gaz. vol. 174; p. 13.
Brown, Harry, *et al.* (See Andel, Joseph, assignor.)
Brown, Harry, Elvaston, Ill. Power-whip for hay-presses. No. 1,029,586; June 18; Sp. p. 3282; Gaz. vol. 179; p. 585.
Brown, Harry E. (See Leonard and Brown.)
Brown, Harry M., Brooklyn, N. Y., assignor to R. A. Canfield, Providence, R. I. Stopper. No. 1,022,060; Apr. 2; Sp. p. 656; Gaz. vol. 177; p. 104.
Brown, Harry M., Brooklyn, N. Y., assignor to R. A. Canfield, Providence, R. I. Stopper-applying machine. No. 1,034,070; July 30; Gaz. vol. 180; p. 1251.
Brown, Harry M., Brooklyn, N. Y., assignor to R. A. Canfield, Providence, R. I. Stopper-making machine. No. 1,039,643; Sept. 24; Gaz. vol. 182; p. 925.
Brown, Harry M., Brooklyn, N. Y., assignor to R. A. Canfield, Providence, R. I. Stoppering or seal-applying machine. No. 1,040,615; Oct. 8; Gaz. vol. 183; p. 351.
Brown, Harvey E., assignor of one-half to J. F. Broemmelsiek and one-half to E. W. Broemmelsiek, St. Louis, Mo. Labeling-machine. No. 1,032,042; July 9; Gaz. vol. 180; p. 454.
Brown, Henry C., Philadelphia, Pa. Cabinet for holding talking-machine records. No. 1,038,841; Sept. 17; Gaz. vol. 182; p. 633.
Brown, Henry L., assignor to Brown Spin-Wright Company, New York, N. Y. Textile apparatus. No. 1,016,394; Feb. 6; Sp. p. 351; Gaz. vol. 175; p. 56.
Brown, Herbert J., Georgetown, N. Y. Milk-pail. No. 1,046,730; Dec. 10; Gaz. vol. 185; p. 365.
Brown Hoisting Machinery Company, The. (See Dowd, John P., assignor.)
Brown Hoisting Machinery Company, The. (See Monroe, Will K., assignor.)
Brown Hoisting Machinery Company, The. (See Taylor, Ernest W., assignor.)
Brown Hoisting Machinery Company, The. (See Terrill, Franklin E., assignor.)
Brown, Howard, Springfield, Mass. Watermarking device for paper. No. 1,014,635; Jan. 16; Sp. p. 3447; Gaz. vol. 174; p. 592.
Brown, Ida M., Somerville, Mass. Child's harness. No. 1,048,033; Dec. 24; Gaz. vol. 185; p. 874.
Brown, Ira S., Bridgeport, Conn. Electric writing-machine. No. 1,027,984; May 28; Sp. p. 6355; Gaz. vol. 178; p. 1091.
Brown, Isaiah J., Jersey City, N. J. Magazine nailing-tool. No. 1,018,478; Feb. 27; Sp. p. 4974; Gaz. vol. 175; p. 876.
Brown, Jacob J., Enid, Okla. Wire stretcher and tightener. No. 1,036,792; Aug. 27; Gaz. vol. 181; p. 914.
Brown, Jacob S., Los Angeles, Cal. Fishing-tool. No. 1,033,531; July 23; Gaz. vol. 180; p. 1040.
Brown, James A. (See Sutherland and Brown.)
Brown, James A., Westport, Ind. Broom-bridle. No. 1,029,046; June 11; Sp. p. 2128; Gaz. vol. 179; p. 366.
Brown, James A., assignor of one-half to Iowa Windmill & Pump Co., Cedar Rapids, Iowa. Mechanism for transmitting power for pumping purposes. No. 1,025,049; Apr. 30; Sp. p. 7086; Gaz. vol. 177; p. 1245.
Brown, James A., and C. G. Bosch, assignors to Bosch-Rhea Company, Cedar Rapids, Iowa. Starting device for explosive-engines. No. 1,031,908; July 9; Gaz. vol. 180; p. 410.
Brown, James D., and W. A. Stubbs, New York, N. Y., assignors to said Stubbs. Box-toe for boots and shoes. No. 1,037,426; Sept. 3; Gaz. vol. 182; p. 84.
Brown, James G., Elkhart, Ind. Track-support. No. 1,041,423; Oct. 15; Gaz. vol. 183; p. 656.
Brown, James H., St. Charles, assignor to J. G. Wurtele, Chicago, Ill. Corn-rack. No. 1,039,359; Sept. 24; Gaz. vol. 182; p. 826.
Brown, James S., Harrison, N. Y. Ash-sifter or analogous device. No. 1,028,537; June 4; Sp. p. 1032; Gaz. vol. 179; p. 157.
Brown, James T., Detroit, Mich. Boiler. No. 1,021,759; Apr. 2; Sp. p. 8; Gaz. vol. 177; p. 4.
Brown, John, assignor of one-half to W. M. De Witt, Tulare, Cal. Car-replacer. No. 1,035,312; Aug. 13; Gaz. vol. 181; p. 337.
Brown, John, Plaistow, England, and J. E. Scott, Greenock, Scotland. Steam-turbine. No. 1,030,278; June 25; Sp. p. 4831; Gaz. vol. 179; p. 864.
Brown, John H., West Hoboken, N. J. Projectile. No. 1,031,320; July 2; Gaz. vol. 180; p. 166.
Brown, John H., and J. Gouldbourn, Leicester, England, assignors to United Shoe Machinery Company, Paterson, N. J. Machine for use in manufacture of boots and shoes. No. 1,014,046; Jan. 9; Sp. p. 2147; Gaz. vol. 174; p. 359.

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Brown, John J., Elizabeth, assignor to Wheeler Condenser and Engineering Company, Carteret, N. J. Steam-condensing apparatus. No. 1,014,368; Jan. 9; Sp. p. 2857; Gaz. vol. 174; p. 472.
Brown, John N. D., Anadarko, Okla. Railway road-bed, track, and rail construction. No. 1,013,736; Jan. 2; Sp. p. 1425; Gaz. vol. 174; p. 225.
Brown, John R. (See Denneen and Brown.)
Brown, John W. (See Ordway and Brown.)
Brown, John W, assignor to National Carbon Company, Cleveland, Ohio. Dry battery-cell. No. 1,033,228; July 23; Gaz. vol. 180; p. 940.
Brown, John W., Jr., assignor to The Enterprise Manufacturing Company of Pennsylvania, Philadelphia, Pa. Sprue-raising mechanism for molding-machines. No. 1,022,297; Apr. 2; Sp. p. 1139; Gaz. vol. 177; p. 182.
Brown, John W., Jr., assignor to The Enterprise Manufacturing Company of Pennsylvania, Philadelphia, Pa. Molding-machine. No. 1,025,737; May 7; Sp. p. 1392; Gaz. vol. 178; p. 217.
Brown, John W., Jr., assignor to The Enterprise Manufacturing Company of Pennsylvania, Philadelphia, Pa. Casting apparatus. No. 1,027,316; May 21; Sp. p. 4922; Gaz. vol. 178; p. 828.
Brown, John W., Jr., assignor to The Enterprise Manufacturing Company of Pennsylvania, Philadelphia, Pa. Apparatus for separating magnetic metal from sand. No. 1,034,969; Aug. 6; Gaz. vol. 181; p. 190.
Brown, John W., Jr., assignor to The Enterprise Manufacturing Company of Pennsylvania, Philadelphia, Pa. Metal-pouring apparatus for casting plants. No. 1,034,970; Aug. 6; Gaz. vol. 181; p. 191.
Brown, Joseph H., and D. A. Berry, assignors to Resilia Limited, Northampton, England. Overshoe. No. 1,037,201; Sept. 3; Gaz. vol. 182; p. 8.
Brown, Julius, Peekskill, N. Y. Flying-machine. No. 1,034,578; Aug. 6; Gaz. vol. 181; p. 59.
Brown, Juney M., Greensboro, N. C. Engine. No. 1,042,883; Oct. 29; Gaz. vol. 183; p. 1218.
Brown, L. A., *et al.* (See Wall, John W., assignor.)
Brown, L. W. (See Bozarth, Frank D., assignor.)
Brown, Legrand F., and J. F. Chapbell, Mobile, Ala. Shutter hinge and fastener. No. 1,034,971; Aug. 6; Gaz. vol. 181; p. 191.
Brown, Leonard L., Clifton Forge, Va., and J. F. Smith, Ronceverte, W. Va. Automatic air-retainer. No. 1,040,873; Oct. 8; Gaz. vol. 183; p. 437.
Brown, Leslie A., Bedford, Ind., assignor, by mesne assignments, to Thomas A. Edison, Incorporated, West Orange, N. J. Phonograph. No. 1,036,440; Aug. 20; Gaz. vol. 181; p. 762.
Brown, Levi, assignor to J. M. Lontz, Richmond, Ind. Stationary-knife mounting. No. 1,029,168; June 11; Sp. p. 2385; Gaz. vol. 179; p. 406.
Brown, Levi, assignor to J. M. Lontz, Richmond, Ind. Lawn-mower. No. 1,031,417; July 2; Gaz. vol. 180; p. 199.
Brown, Lewis J., Brooklyn, N. Y. Tool for inserting piston-rings. No. 1,042,764; Oct. 29; Gaz. vol. 183; p. 1177.
Brown, Lewis W., Berkley, assignor of one-half to F. D. Bozarth, Williamsburg, Va. Transmission-gear. No. 1,013,737; Jan. 2; Sp. p. 1435; Gaz. vol. 174; p. 225.
Brown, Lillie M. (See Brown, Luther P., assignor.)
Brown-Lipe Gear Company, The. (See Sponable, George W., assignor.)
Brown, Louis M., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Lasting-machine. No. 1,028,990; June 11; Sp. p. 2007; Gaz. vol. 179; p. 346.
Brown, Louis O., Toledo, Ohio, assignor to The Metallic Barrel Company, Chicago, Ill. Metallic vessel. No. 1,037,202; Sept. 3; Gaz. vol. 182; p. 8.
Brown, Luther P., Ramsey, N. J., assignor to L. M. Brown. Machine for making fillers. No. 1,023,989; Apr. 23; Sp. p. 4761; Gaz. vol. 177; p. 844.
Brown, Lydia M., *et al.* (See Brown, Frederic W., assignor.)
Brown, Lyman H., Hartford, Conn. Safety-clutch for power-presses, paper-cutters, &c. No. 1,016,395; Feb. 6; Sp. p. 359; Gaz. vol. 175; p. 56.
Brown, Malinda E., Pine Bluff, Ark. Button-fastener. No. 1,032,735; July 16; Gaz. vol. 180; p. 736.
Brown, Mat. (See Kraemer, Otto, assignor.)
Brown, Matthias G., Gulfport, Miss. Attachment for filling grease-cups. No. 1,027,588; May 28; Sp. p. 5483; Gaz. vol. 178; p. 959
Brown, Milton W. H., Trenton, N. J. Box-magazine for firearms. No. 1,044,983; Nov. 19; Gaz. vol. 184; p. 736.
Brown, Morris H., assignor to J. Davis, Penn Yan, N. Y. Coin-controlled apparatus. No. 1,048,490; Dec. 31; Gaz. vol. 185; p. 1066.
Brown, Nat E., Grand Haven, Mich. Gyroplane. No. 1,040,136; Oct. 1; Gaz. vol. 183; p. 156.
Brown, Nimrod W. L., Marietta, Ga. Tramper for cotton-presses. No. 1,016,396; Feb. 6; Sp. p. 361; Gaz. vol. 175; p. 57.
Brown, Nimrod W. L., Thomasville, Ala. Huller cotton-gin. No. 1,043,800; Nov. 12; Gaz. vol. 184; p. 296.
Brown, Norman S., Wigan, England. Lift or hoist. No. 1,040,874; Oct. 8; Gaz. vol. 183; p. 437.
Brown, Norman S., and J. Hardacre, Wigan, England; said Hardacre assignor to said Brown. Thread-guide or lappet for spinning and doubling frames. No. 1,018,870; Feb. 27; Sp. p. 5855; Gaz. vol. 175; p. 1010.
Brown, Norman S., and J. Maloney, Wigan, assignors to W. T. and J. H. Stubbs, Manchester, England. Apparatus for tying knots. No. 1,046,959; Dec. 10; Gaz. vol. 185; p. 442.
Brown, Norton M., Aurora, Ill. Expansion-hoop. No. 1,028,325; June 4; Sp. p. 569; Gaz. vol. 179; p. 84.
Brown, Otis E., Brockton, Mass., assignor to The Singer Manufacturing Company. Presser-foot mechanism for sewing-machines. No. 1,014,283; Jan. 9; Sp. p. 2650; Gaz. vol. 174; p. 441.
Brown, Owen E. (See Brinton and Brown.)
Brown, Percy H., *et al.* (See Lanaux, Alfred A., assignor.)
Brown, Perry, Coraopolis, Pa. Car-brake. No. 1,037,120; Aug. 27; Gaz. vol. 181; p. 1024.
Brown, Perry, Coraopolis, Pa. Car-brake. No. 1,037,121; Aug. 27; Gaz. vol. 181; p. 1024.
Brown, Perry, Coraopolis, Pa. Molding-machine. No. 1,048,290; Dec. 24; Gaz. vol. 185; p. 960.
Brown, Philip C., New Albany, Ind. Automatic car-coupling. No. 1,031,618; July 2; Gaz. vol. 180; p. 266.
Brown, Ralph H., Worcester, Mass. Socket-joint. No. 1,024,615; Apr. 30; Sp. p. 6204; Gaz. vol. 177; p. 1095.
Brown, Richard J. W., London, England. Breech mechanism for automatic recoil-operated guns. No. 1,021,130; Mar. 26; Sp. p. 4505; Gaz. vol. 176; p. 831.
Brown, Richard P., Philadelphia, Pa. Electric switch. No. 1,018,648; Feb. 27; Sp. p. 5398; Gaz. vol. 175; p. 934.
Brown, Robert B., Fishergate, England. Apparatus for distributing sewage or other liquids. No. 1,035,414; Aug. 13; Gaz. vol. 181; p. 374.
Brown, Robert L. and G., Mayview, Mo. Insulator. No. 1,035,415; Aug. 13; Gaz. vol. 181; p. 374.
Brown, Robert P., Washington, D. C. Animal-trap. No. 1,028,538; June 4; Sp. p. 1034; Gaz. vol. 179; p. 157.
Brown, Robert P., assignor to Brown & Bailey Company, Philadelphia, Pa. Barrel-partition. No. 1,025,507; May 7; Sp. p. 894; Gaz. vol. 178; p. 139.
Brown, Robert S., assignor to The New Britain Machine Company, New Britain, Conn. Gearing. No. 1,040,502; Oct. 8; Gaz. vol. 183; p. 310.
Brown, Robert S., assignor to The New Britain Machine Company, New Britain, Conn. Mechanical movement. No. 1,049,289; Dec. 31; Gaz. vol. 185; p. 1342.
Brown, Royl A., Ashland, Ohio. Buckle. No. 1,013,985; Jan. 9; Sp. p. 2005; Gaz. vol. 174; p. 339.
Brown, Royl A., Ashland, Ohio. Buckle. No. 1,021,088; Mar. 26; Sp. p. 4419; Gaz. vol. 176; p. 818.
Brown, Samuel G., Lynn, Mass. Drain-trap. No. 1,021,823; Apr. 2; Sp. p. 159; Gaz. vol. 177; p. 26.
Brown and Sharpe Manufacturing Company. (See Parker, John, assignor.)
Brown, Sidney G., London, England. Telephony or telegraphy. No. 1,048,443; Dec. 24; Gaz. vol. 185; p. 1011.
Brown, Spencer M., Portland, Oreg. Aeroplane. No. 1,032,587; July 16; Gaz. vol. 180; p. 683.
Brown Spin-Wright Company. (See Brown, Henry L., assignor.)
Brown, Stewart, Alexandria, Va. Electric bell. No. 1,018,162; Feb. 20; Sp. p. 4296; Gaz. vol. 175; p. 738.
Brown, Stewart, Chicago, Ill. Wind-shield frame. No. 1,022,719; Apr. 9; Sp. p. 2082; Gaz. vol. 177; p. 358.
Brown, Stewart, Chicago, Ill. Electric lighter for gas-burners. No. 1,026,848; May 21; Sp. p. 3867; Gaz. vol. 178; p. 668.
Brown, Stewart, Chicago, Ill. Pressure-reducer. No. 1,042,078; Oct. 22; Gaz. vol. 183; p. 914.
Brown, Theodore. (See Brown, Bessie K. and T.)
Brown, Theodore, Brixton, London, England. Toy. No. 1,027,589; May 28; Sp. p. 5485; Gaz. vol. 178; p. 959.
Brown, Theodore H., assignor to N. J. Blomgren, Minneapolis, Minn. Apparatus for molding concrete walls. No. 1,013,475; Jan. 2; Sp. p. 842; Gaz. vol. 174; p. 135.
Brown, Theodore P., assignor to Simplex Player Action Company, Worcester, Mass. Piano. No. 1,019,127; Mar. 5; Sp. p. 271; Gaz. vol. 176; p. 41.
Brown, Theodore P., assignor to Simplex Player Action Co., Worcester, Mass. Musical instrument. No. 1,030,715; June 25; Sp. p. 5993; Gaz. vol. 179; p. 1022.
Brown, Thomas E. (See De Raasloff and Brown.)
Brown, Thomas E., New York, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Hydraulic-elevator safety device. No. 1,028,807; June 4; Sp. p. 1585; Gaz. vol. 179; p. 248.
Brown, Thomas S., Hemet, Cal. Street-lighting device. No. 1,045,253; Nov. 26; Gaz. vol. 184; p. 859.
Brown, Walter F., Peoria, Ill. Wing-carrier. No. 1,025,367; May 7; Sp. p. 586; Gaz. vol. 178; p. 91.
Brown, Walter F., Minneapolis, Minn. Wing-carrier. No. 1,028,858; June 11; Sp. p. 1706; Gaz. vol. 179; p. 299.
Brown, Walter S., assignor of one-half to H. W. Enderis, Lincoln, Nebr. Feeding attachment for printing-presses. No. 1,034,972; Aug. 6; Gaz. vol. 181; p. 191.

Alphabetical list of patentees—Continued.

Brown, Walter W., Schenectady, N. Y., assignor, by mesne assignments, to The Union Switch and Signal Company. Semaphore-signal. No. 1,038,278; Sept. 10; Gaz. vol. 182; p. 402.
Brown, Washington I., Savannah, Mo. Aseptic clinical-thermometer holder. No. 1,017,377; Feb. 13; Sp. p. 2531; Gaz. vol. 175; p. 429.
Brown, Wilfred L. (See Woodhouse and Brown.)
Brown, Willard M. (See Wermuth and Brown.)
Brown, William A., St. Joseph, Mo. Hay-gate for mangers. No. 1,018,095; Feb. 20; Sp. p. 4156; Gaz. vol. 175; p. 714.
Brown, William G., New York, N. Y. Package for milk. No. 1,013,639; Jan. 2; Sp. p. 1190; Gaz. vol. 174; p. 190.
Brown, William H., Cleveland, Ohio. Vibration-recorder. No. 1,039,093; Sept. 24; Gaz. vol. 182; p. 732.
Brown, William J., Boulder, Colo. Electric time-switch. No. 1,037,818; Sept. 3; Gaz. vol. 182; p. 213.
Brown, William P., Minneapolis, Minn. Shotgun-shell. No. 1,034,684; Aug. 6; Gaz. vol. 181; p. 93.
Brown, William P., Minneapolis, Minn. Shotgun-shell. No. 1,035,079; Aug. 6; Gaz. vol. 181; p. 225.
Brown, William P., Minneapolis, Minn. Shotgun-shell. No. 1,040,503; Oct. 8; Gaz. vol. 183; p. 310.
Brown, William S., Knoxville, Tenn. Steam-engine valve-gear. No. 1,033,532; July 23; Gaz. vol. 180; p. 1040.
Brown & Williams. (See Gray, David E., assignor.)
Brownback, Henry L., Norristown, Pa. Carbureter. No. 1,025,782; May 7; Sp. p. 1477; Gaz. vol. 178; p. 233.
Browne, Arthur B., Branford, Conn. Combined breast-drill and valve-grinder. No. 1,017,242; Feb. 13; Sp. p. 2259; Gaz. vol. 175; p. 384.
Browne, Charles O., Norwood, Ohio. Shock-absorber. No. 1,028,185; June 4; Sp. p. 289; Gaz. vol. 179; p. 37.
Browne, Fitz-James E. (See Daw, Hilder, assignor.)
Browne, Harry P. C., New York, N. Y. Fare-calculator. No. 1,015,419; Jan. 23; Sp. p. 5148; Gaz. vol. 174; p. 884.
Browne, Harry P. C., New York, N. Y. Hub-odometer. No. 1,027,031; May 21; Sp. p. 4313; Gaz. vol. 178; p. 733.
Browne, John E., Brookline, and H. H. Colson, Everett, Mass. Automobile lamp-bracket. No. 1,022,463; Apr. 9; Sp. p. 1504; Gaz. vol. 177; p. 269.
Browne, Richard H., Muskegon, Mich. Knockdown extensible cabinet or shelving. No. 1,030,279; June 25; Sp. p. 4832; Gaz. vol. 179; p. 864.
Browne, Stephen W., Wilsonville, Nebr. Belt-shifter. No. 1,020,021; Mar. 12; Sp. p. 2162; Gaz. vol. 176; p. 372.
Browne, William A. (See Moore and Browne.)
Brownell, George L., Worcester, Mass. Clutch. No. 1,041,010; Oct. 15; Gaz. vol. 183; p. 518.
Browning, Amy F., Devon, Pa. Undergarment. No. 1,034,071; July 30; Gaz. vol. 180; p. 1251.
Browning, Charles, Jr., Sacramento, Cal. Flange-tester. No. 1,037,857; Sept. 10; Gaz. vol. 182; p. 260.
Browning, Earl H., Nottingham, Ohio. Machine for cutting bevel-gears. No. 1,040,137; Oct. 1; Gaz. vol. 183; p. 157.
Browning, George P., Flint Hill, Va. Clevis. No. 1,037,589; Sept. 3; Gaz. vol. 182; p. 139.
Browning, John B., assignor to Victor Talking Machine Company, Camden, N. J. Talking-machine. No. 1,022,180; Apr. 2; Sp. p. 907; Gaz. vol. 177; p. 145.
Browning, William H., New York, N. Y. Congestion-problem puzzle. No. 1,017,378; Feb. 13; Sp. p. 2532; Gaz. vol. 175; p. 429.
Browning, William H., New York, N. Y. Humidor. No. 1,017,379; Feb. 13; Sp. p. 2535; Gaz. vol. 175; p. 430.
Browning, William H., Rye, N. Y. Carbureter. No. 1,026,491; May 14; Sp. p. 3088; Gaz. vol. 178; p. 509.
Brownlee, Charles. (See Morris and Brownlee.)
Brownlee, Isaac. (See Patterson, George W., assignor.)
Brownlee, William K., assignor to The Libby Glass Company, Toledo, Ohio. Glass-pot. No. 1,016,065; Jan. 30; Sp. p. 6539; Gaz. vol. 174; p. 1136.
Brownless, George C., Darlington, England. Measuring-machine. No. 1,032,736; July 16; Gaz. vol. 180; p. 737.
Brownrigg, Ida, Mount Ida, Kans. Dish-washer. No. 1,032,737; July 16; Gaz. vol. 180; p. 737.
Brownstein, Michael. (See Anderson, Edward H., assignor.)
Broyles, James S., Wikel, W. Va. Seed-wheat cleaner. No. 1,027,813; May 28; Sp. p. 5948; Gaz. vol. 178; p. 1033.
Bruce, Charles R., Kansas City, Mo. Disappearing bed. No. 1,037,858; Sept. 10; Gaz. vol. 182; p. 260.
Bruce, George L., Baltimore, Md. Dental vulcanizer. No. 1,034,764; Aug. 6; Gaz. vol. 181; p. 122.
Bruce, George W., Larimore, N. D. Potato-harvester. No. 1,019,752; Mar. 12; Sp. p. 2619; Gaz. vol. 176; p. 282.
Bruce, George W., Larimore, N. D. Potato-harvester. No. 1,019,753; Mar. 12; Sp. p. 1622; Gaz. vol. 176; p. 283.
Bruce, George W., Larimore, N. D. Potato-harvester with side truck. No. 1,019,754; Mar. 12; Sp. p. 1624; Gaz. vol. 176; p. 283.
Bruce, Guy J. (See Fry and Bruce.)
Bruce-Macbeth Engine Company, The. (See Meriam and Allen, assignors.)

Brucelarie, Simon, and E. Steffan, West Hoboken, N. J. Refrigerator drip-pan. No. 1,036,181; Aug. 20; Gaz. vol. 181; p. 673.
Bruck, Firm of Friedr. C. vom. (See Bruck, Friedrich C. vom, assignor.)
Bruck, Friedrich C. vom, Dusseldorf, assignor to Firm of F. C. vom Bruck, Velbert, Germany. Bolt for doors and windows. No. 1,023,455; Apr. 16; Sp. p. 3627; Gaz. vol. 177; p. 643.
Brück, Fritz, Osnabrück, Germany. Automatic speed-brake for submarine mines. No. 1,014,804; Jan. 16; Sp. p. 3816; Gaz. vol. 174; p. 649.
Brück, Fritz, Osnabrück, Germany. Submarine contact-mine. No. 1,021,089; Mar. 26; Sp. p. 4420; Gaz. vol. 176; p. 818.
Brucker, Louis. (See Marx and Brucker.)
Bruckheimer, Samuel. (See Marx, Charles O., assignor.)
Brückmann, Franz, Jr. (See Sharp, Lee C., assignor.)
Bruckner, Rudolph E., New York, N. Y., and C. A. McCune, Jersey City, N. J., assignors to The Commercial Acetylene Company, New York, N. Y. Incandescent-mantle holder and guard. No. 1,021,967; Apr. 2; Sp. p. 467; Gaz. vol. 177; p. 74.
Bruder, Frank, New York, N. Y. Combination cap and bonnet. No. 1,019,019; Mar. 5; Sp. p. 14; Gaz. vol. 176; p. 5.
Bruening, Theodore F., Raywood, Tex. Ditching-plow. No. 1,021,131; Mar. 26; Sp. p. 4509; Gaz. vol. 176; p. 831.
Brühl, Paul, Dusseldorf, Germany. Support ball-bearing. No. 1,022,531; Apr. 9; Sp. p. 1641; Gaz. vol. 177; p. 292.
Bruhn, Bruno, Charlottenburg, Germany, assignor to The Commercial Research Company, New York, N. Y. Heat-regenerator for cement-kilns. No. 1,043,901; Nov. 12; Gaz. vol. 184; p. 331.
Bruhn, Fred and R., Vicksburg, Miss. Plant setting and fertilizing machine. No. 1,026,492; May 14; Sp. p. 3091; Gaz. vol. 178; p. 510.
Bruhn, Robert. (See Bruhn, Fred and R.)
Brukwicki, Bronislaw, Rakowo, near Niehof, Germany. Electromagnetic reversing-gear. No. 1,044,984; Nov. 19; Gaz. vol. 184; p. 736.
Bruman, Otto F., Berlin, Germany, assignor to R. S. Hotz, Chicago, Ill. Turbine-casing. No. 1,036,182; Aug. 20; Gaz. vol. 181; p. 673.
Bruman, Otto F., Berlin, Germany, assignor to R. S. Hotz, Chicago, Ill. Steam-chamber for turbines. No. 1,036,183; Aug. 20; Gaz. vol. 181; p. 673.
Bruman, Otto F., Berlin, Germany, assignor to R. S. Hotz, Chicago, Ill. Stationary diaphragm for steam-turbines. No. 1,036,184; Aug. 20; Gaz. vol. 181; p. 674.
Brumback, Orville S. (See Winter, Wellington P., assignor.)
Brumbaugh, Oliver, Louisville, Ohio. Silo. No. 1,015,612; Jan. 23; Sp. p. 5560; Gaz. vol. 174; p. 952.
Brumberg, Eli, Montesano, Wash. Button. No. 1,035,080; Aug. 6; Gaz. vol. 181; p. 225.
Brun, Louis, St. Chamond, France. Rotary motor. No. 1,048,391; Dec. 24; Gaz. vol. 185; p. 995.
Brun, Louis, St. Chamond, France. Reversible rotary motor. No. 1,048,468; Dec. 24; Gaz. vol. 185; p. 1021.
Brundege, Rozier E., St. Louis, Mo. Regenerative brake system for vehicles. No. 1,030,051; June 18; Sp. p. 4334; Gaz. vol. 179; p. 748.
Brundidge, Sarah L., Savannah, Ga. Waist foundation. No. 1,026,559; May 14; Sp. p. 3218; Gaz. vol. 178; p. 532.
Brune, Friederich, assignor to Milwaukee Corrugating Company, Milwaukee, Wis. Machine for making sheet-metal pipe-elbows. No. 1,047,375; Dec. 17; Gaz. vol. 185; p. 619.
Brune, Heinrich, and H. Horst, Frankfort-on-the-Main, assignors to E. Abresch, Neustadt-on-the-Hardt, Germany. Drying raw peat. No. 1,033,779; July 30; Gaz. vol. 180; p. 1146.
Bruneau, Gerda, Clichy, France. Gas-burner. No. 1,019,298; Mar. 5; Sp. p. 656; Gaz. vol. 176; p. 102.
Brunelle, Arthur, North Yakima, Wash. Bale-stacker. No. 1,015,939; Jan. 30; Sp. p. 6261; Gaz. vol. 174; p. 1090.
Brunelle, Arthur, assignor of one-half to N. Cuillerier, one-fourth to P. Patnode, and one-fourth to H. Patnode, North Yakima, Wash. Bale-handling apparatus. No. 1,020,683; Mar. 19; Sp. p. 3569; Gaz. vol. 176; p. 628.
Brunello, Emilio F., Appalachia, Va. Sword and scabbard. No. 1,028,428; June 4; Sp. p. 803; Gaz. vol. 179; p. 121.
Brunello, Emilio F., Appalachia, Va. Amusement device. No. 1,030,970; July 2; Gaz. vol. 180; p. 42.
Bruner, Charles C., Portsmouth, N. H. Poison-bottle label. No. 1,031,520; July 2; Gaz. vol. 180; p. 233.
Bruner, Martin R., Wapakoneta, Ohio. Wagon running-gear. No. 1,046,258; Dec. 3; Gaz. vol. 185; p. 160.
Bruner, Philip, Boise, Idaho. Nut and bolt lock. No. 1,036,069; Aug. 20; Gaz. vol. 181; p. 632.
Brunet, Peter, Toronto, Ontario, Canada. Making glass-faced tiles. No. 1,025,677; May 7; Sp. p. 1267; Gaz. vol. 178; p. 196.
Brunhoff, Edward, Cincinnati, Ohio. Cigar-tip cutter. No. 1,024,924; Apr. 30; Sp. p. 6853; Gaz. vol. 177; p. 1204.
Brunk, Philip, Lorain, Ohio. Hot-water and steam boiler. No. 1,044,132; Nov. 12; Gaz. vol. 184; p. 411.

Alphabetical list of patentees--Continued.

Brunka, Oscar, assignor of one-fourth to J. Shively, South Houston, Tex. Nut and candy depositor. No. 1,036,070; Aug. 20; Gaz. vol. 181; p. 632.
Brunner, Edward. (See Midgley, Charles A., assignor.)
Brunner, Edward H., Memphis, Tenn. Kraut-pack. No. 1,044,341; Nov. 12; Gaz. vol. 184; p. 484.
Brunner, Joseph, Oelenburg, near Lutterbach, Germany. Electric push-button switch. No. 1,039,644; Sept. 24; Gaz. vol. 182; p. 926.
Brunnert, Anton, assignor of one-half to H. F. Freise, Old Monroe, Mo. Egg-candler scoop. No. 1,030,280; June 25; Sp. p. 4834; Gaz. vol. 179; p. 865.
Brunnert, Anton, assignor of one-half to H. F. Freise, Old Monroe, Mo. Egg-case and means for emptying the same. No. 1,032,182; July 9; Gaz. vol. 180; p. 501.
Brunnett, Henry C., Utica, N. Y. Fishing-rod handle. No. 1,033,668; July 23; Gaz. vol. 180; p. 1085.
Brunnier, Henry J., Oakland, Cal. Spring-fender for docks. No. 1,013,584; Jan. 2; Sp. p. 1061; Gaz. vol. 174; p. 171.
Bruno, Waldemar, Berlin, Germany. Manufacture of incandescent mantles. No. 1,035,527; Aug. 13; Gaz. vol. 181; p. 412.
Bruno Works, The. (See Bültzingslöwen, Bruno von, assignor.)
Bruns, Hans T., Nuremberg, Germany. Means for driving the pumps of internal-combustion engines. No. 1,023,241; Apr. 16; Sp. p. 3203; Gaz. vol. 177; p. 573.
Bruns, Hans T., Nuremberg, Germany. Apparatus for distributing fuel in internal-combustion engines. No. 1,026,732; May 21; Sp. p. 3616; Gaz. vol. 178; p. 628.
Brunswick-Balke-Collender Co., The. (See Hjort, Axel F., assignor.)
Brunswick-Balke-Collender Company of New York, The. (See Hobbs, Francis C., assignor.)
Brunswick-Balke-Collender Company, The. (See Hobbs, Frank C., assignor.)
Brunswick-Balke-Collender Company of New York, The. (See McIntire, Jacob N., assignor.)
Brunswick-Balke-Collender Company of New York, The. (See Riddell, Paris J., assignor.)
Brunswick-Balke-Collender Company of New York. (See Rogers, Charles R., assignor.)
Brunswick Refrigerating Company, The. (See Whitaker, Richard, assignor.)
Brunswick, William F., Akron, Ohio, assignor to The Reverse Draft Furnace Co. Furnace and stove structure. No. 1,024,826; Apr. 30; Sp. p. 6649; Gaz. vol. 177; p. 1170.
Brunswig, Heinrich, Steglitz, near Berlin, Germany, assignor to E. I. du Pont de Nemours Powder Company, Wilmington, Del. Method for the detonation of explosives. No. 1,042,643; Oct. 29; Gaz. vol. 183; p. 1135.
Brunt, Henry C. C., Collingswood, N. J., assignor to Victor Talking Machine Company. Friction-brake. No. 1,022,656; Apr. 9; Sp. p. 1913; Gaz. vol. 177; p. 334.
Brunt, Thomas A., assignor to M. J. O'Brien, Renfrew, Ontario, Canada. Weighing-truck. No. 1,020,597; Mar. 19; Sp. p. 3383; Gaz. vol. 176; p. 601.
Brunt, William C., Boston, Mass. Combination spark-plug. No. 1,026,653; May 21; Sp. p. 3444; Gaz. vol. 178; p. 601.
Brunton, David W., Denver, Colo. Transit. No. 1,042,079; Oct. 22; Gaz. vol. 183; p. 914.
Brush, Alanson P., Flint, Mich. Brake-drum protector. No. 1,019,755; Mar. 12; Sp. p. 1626; Gaz. vol. 176; p. 284.
Brush, Alanson P., Flint, Mich. Selective mechanism for shifting gears. No. 1,041,734; Oct. 22; Gaz. vol. 183; p. 796.
Brush, Alanson P., Flint, Mich. System of splash lubrication. No. 1,041,735; Oct. 22; Gaz. vol. 183; p. 796.
Brush, Alanson P., Detroit, Mich., and W. C. Baker, Lakewood, Ohio. Brake. No. 1,034,579; Aug. 6; Gaz. vol. 181; p. 59.
Brush, George E., assignor to E. A. Mallory and Sons, Incorporated, Danbury, Conn. Nap-raising machine for felt hats. No. 1,017,952; Feb. 20; Sp. p. 3830; Gaz. vol. 175; p. 664.
Brush, George H., assignor of one-third to W. G. Nichols, Chicago Heights, Ill. Universal joint. No. 1,037,427; Sept. 3; Gaz. vol. 182; p. 84.
Brush Mop Wringer Manufacturing Company, The. (See Beazley, Joseph O., assignor.)
Brussel, Charles, New York, N. Y. Gas-lighter. No. 1,049,045; Dec. 31; Gaz. vol. 185; p. 1260.
Bruun, Jacob, *et al.* (See Blom, Pehr M., assignor.)
Bryan, Barnabas, Washington, D. C. Time-controlled shutter-actuating mechanism. No. 1,015,134; Jan. 16; Sp. p. 4527; Gaz. vol. 174; p. 763.
Bryan, Henry B., Pittsburgh, Pa. Dipper. No. 1,015,135; Jan. 16; Sp. p. 4530; Gaz. vol. 174; p. 763.
Bryan, Joseph D., Oklahoma, Okla. Scrubbing-brush. No. 1,041,011; Oct. 15; Gaz. vol. 183; p. 518.
Bryan, Oscar M., Chanute, Kans. Baling-machine. No. 1,017,202; Feb. 13; Sp. p. 2165; Gaz. vol. 175; p. 370.
Bryan, Roy B., La Fayette, Ind. Knotter. No. 1,033,669; July 23; Gaz. vol. 180; p. 1085.
Bryan, Roy B., La Fayette, Ind. Self-baling machine. No. 1,043,041; Oct. 29; Gaz. vol. 183; p. 1273.
Bryan, Solon. (See Master, James W., assignor.)
Bryant, Arthur S. (See Horrell and Bryant.)
Bryant, Charles J., Spokane, Wash. Paper-rack and display device. No. 1,021,656; Mar. 26; Sp. p. 5618; Gaz. vol. 176; p. 1011.
Bryant, Charles S. (See Honabach and Bryant.)
Bryant, Clyde J., assignor of one-half to J. P. Wallis, Chicago, Ill. Mail-opening machine. No. 1,047,493; Dec. 17; Gaz. vol. 185; p. 660.
Bryant, Courtney S., Greene, N. Y. Heating system for incubators. No. 1,015,290; Jan. 23; Sp. p. 4851; Gaz. vol. 174; p. 841.
Bryant, Cyrus A., Passaic, assignor to V. M. Sales Co., Plainfield, N. J. Drinking-cup holder. No. 1,029,342; June 11; Sp. p. 2772; Gaz. vol. 179; p. 467.
Bryant, Edward E., Chicago, Ill. Fluid-pressure steering apparatus. No. 1,036,071; Aug. 20; Gaz. vol. 181; p. 633.
Bryant Electric Company, The. (See Brendel, Paul A., assignor.)
Bryant Electric Company, The. (See Forstrom, Edward E., assignor.)
Bryant Electric Company, The. (See Gagnon, William, assignor.)
Bryant Electric Company, The. (See Goodridge, Gilbert W., assignor.)
Bryant Electric Company, The. (See Martin, Joseph E., assignor.)
Bryant Electric Company, The. (See Poole and Brendel, assignors.)
Bryant Electric Company, The. (See Steiger, Walter V., assignor.)
Bryant Electric Company, The. (See Temple, Frederic L., assignor.)
Bryant Electric Company, The. (See Terry, Charles A., assignor.)
Bryant Electric Company, The. (See Thomas, George B., assignor.)
Bryant Heater and Manufacturing Company, The. (See Fox, Otto, assignor.)
Bryant, Henry E., assignor to American Patent Manufacturing Company, Jacksonville, Fla. Vessel-closure. No. 1,038,279; Sept. 10; Gaz. vol. 182; p. 403.
Bryant, Hugh J. (See Bryant, Jerome F., assignor.)
Bryant, Jerome F., Chicago, Ill., assignor of one-half to H. J. Bryant, Youngstown, Ohio. Forming molds and mold-cores. No. 1,021,348; Mar. 26; Sp. p. 4967; Gaz. vol. 176; p. 906.
Bryant, Jerome F., Chicago, Ill., assignor of one-half to H. J. Bryant, Youngstown, Ohio. Apparatus for forming molds and mold-cores. No. 1,021,349; Mar. 26; Sp. p. 4969; Gaz. vol. 176; p. 907.
Bryant, John C., Fayetteville, Tenn. Washbasin. No. 1,046,960; Dec. 10; Gaz. vol. 185; p. 442.
Bryant, Joseph D., Columbus, Ohio. Liquid wax finish. No. 1,020,634; Mar. 19; Sp. p. 3470; Gaz. vol. 176; p. 613.
Bryant, Robert H., Shawnee, Okla. Cotton-chopper. No. 1,033,150; July 23; Gaz. vol. 180; p. 913.
Bryon, Robert H., Bay Ridge, N. Y., assignor to The J. L. Mott Iron Works. Antiscalding-valve. No. 1,013,640; Jan. 2; Sp. p. 1195; Gaz. vol. 174; p. 190.
Bryant, Virgil C., Berkeley, Cal. Bean-harvester. No. 1,038,720; Sept. 17; Gaz. vol. 182; p. 591.
Bryant, William A., Wetumpka, Ala., assignor of one-third to M. D. Still and one-third to G. B. Britt. Button and drawers support. No. 1,025,783; May 7; Sp. p. 1478; Gaz. vol. 178; p. 233.
Bryce, James W. (See Goss and Bryce.)
Bryce, William, Bristol, assignor to The Sessions Clock Company, Forestville, Conn. Alarm-clock. No. 1,048,805; Dec. 31; Gaz. vol. 185; p. 1177.
Bryning, George, Lawen, Oreg. Garden-shoe. No. 1,044,440; Nov. 12; Gaz. vol. 184; p. 516.
Bryning, Percy L., Brookline, assignor to Bryning Shelf Company, Boston, Mass. Rack or shelf. No. 1,040,269; Oct. 8; Gaz. vol. 183; p. 229.
Bryning, Percy L., Brookline, assignor to Bryning Shelf Company, Boston, Mass. Sectional shelving. No. 1,040,270; Oct. 8; Gaz. vol. 183; p. 230.
Bryning Shelf Company. (See Bryning, Percy L., assignor.)
Brynteson, Brynte, Odebolt, Iowa. Shoe-latch. No. 1,047,376; Dec. 17; Gaz. vol. 185; p. 619.
Bryson, David K., Pittsburgh, Pa. Wave-energy motor. No. 1,021,572; Mar. 26; Sp. p. 5474; Gaz. vol. 176; p. 983.
Bua, Frank S., Lodi, N. J. Safety-cock. No. 1,014,805; Jan. 16; Sp. p. 3818; Gaz. vol. 174; p. 649.
Bubany, Philip, Albia, Iowa. Nut-lock. No. 1,036,185; Aug. 20; Gaz. vol. 181; p. 674.
Bubb, Abram M. C., Woodbridge, Va. Automatic gas cut-off. No. 1,022,822; Apr. 9; Sp. p. 2294; Gaz. vol. 177; p. 392.
Bubeck, Hans, Gratz, Austria-Hungary. Table signaling device. No. 1,034,685; Aug. 6; Gaz. vol. 181; p. 93.
Buboltz, Walter W., Massena, Iowa. Attachment for cultivators. No. 1,039,890; Oct. 1; Gaz. vol. 183; p. 74.
Buch, Max A., Birmingham, England. Upholstering motor-cars and other vehicles. No. 1,035,528; Aug. 13; Gaz. vol. 181; p. 412.

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Buch, Royer S., Elizabethtown, Pa. Ring-bearing for swings. No. 1,044,133; Nov. 12; Gaz. vol. 184; p. 411.
Buchan, Elmer E., Chicago, Ill. Loose-leaf binder. No. 1,027,523; May 28; Sp. p. 5344; Gaz. vol. 178; p. 936.
Buchan, William P., Silver Creek, N. Y. Integrator for conveyer-belt weighing-scales. No. 1,032,183; July 9; Gaz. vol. 180; p. 501.
Buchanan, Challey H. (See Buchanan, Jesey H., assignor.)
Buchanan, Charles G., Brooklyn, N. Y. Crushing-machine. No. 1,024,497; Apr. 30; Sp. p. 5893; Gaz. vol. 177; p. 1054.
Buchanan, Charles G., Brooklyn, N. Y. Crushing-machine. No. 1,029,910; June 18; Sp. p. 4030; Gaz. vol. 179; p. 700.
Buchanan, Frank, Dayton, Ohio. Headlight. No. 1,034,686; Aug. 6; Gaz. vol. 181; p. 94.
Buchanan, Frank, Syracuse, N. Y. Electrical resistance. No. 1,047,742; Dec. 17; Gaz. vol. 185; p: 749.
Buchanan, Frank L., assignor of one-half to C. F. Johnson and one-half to G. Bridges, St. Louis, Mo. Crusher and pulverizer. No. 1,035,313; Aug. 13; Gaz. vol. 181; p. 337.
Buchanan, Frank L., assignor of one-half to C. F. Johnson and one-half to G. Bridges, St. Louis, Mo. Crusher and pulverizer. No. 1,044,441; Nov. 12; Gaz. vol. 184; p. 516.
Buchanan, Fred H. (See Frear, John D., assignor.)
Buchanan, Jaffrey P., Newark, N. J. Portable surface-finisher. No. 1,044,011; Nov. 12; Gaz. vol. 184; p. 371.
Buchanan, James G., Cananea, Mexico, and J. W. Kelker, Los Angeles, Cal. Train-brake. No. 1,030,565; June 25; Sp. p. 5539; Gaz. vol. 179; p. 967.
Buchanan, Jesey H., assignor of one-fourth to C. H. Buchanan, Midway, Tex. Air-propeller. No. 1,023,065; Apr. 9; Sp. p. 2793; Gaz. vol. 177; p. 475.
Buchanan, Judson, Chattanooga, Tenn. Moldboard for plows. No. 1,035,529; Aug. 13; Gaz. vol. 181; p. 413.
Buchanan, Laughlin M., Kewanee, Ill. Clutch for corn-planters. No. 1,033,869; July 30; Gaz. vol. 180; p. 1178.
Buchanan, Leonard B., Woburn, assignor to Chase-Shawmut Company, Newburyport, Mass. Inclosed electric fuse. No. 1,033,754; July 23; Gaz. vol. 180; p. 1111.
Buchanan, Robert D., Peoria, Ill. Electrical fixture. No. 1,044,134; Nov. 12; Gaz. vol. 184; p. 412.
Buchanan, William R., Carrsville, Ky. Vise. No. 1,017,131; Feb. 13; Sp. p. 2008; Gaz. vol. 175; p. 345.
Buchanan, William R., Carrsville, Ky. Combined bevel and square. No. 1,039,891; Oct. 1; Gaz. vol. 183; p. 74.
Buchenberg, Alvin E., Toledo, Ohio. Electric welding apparatus. No. 1,019,299; Mar. 5; Sp. p. 657; Gaz. vol. 176; p. 103.
Bucher, Ernst, Heidelberg, Germany. Dirigible airship. No. 1,027,590; May 28; Sp. p. 5486; Gaz. vol. 178; p. 959.
Bucher, Levi W., Washington, D. C. Rotary motor. No. 1,033,985; July 30; Gaz. vol. 180; p. 1220.
Bucherer, Hans, assignor to Kalle & Company, Aktiengesellschaft, Biebrich, Germany. Amino-oxy-naphthalene sulfonic acid and making same. No. 1,022,019; Apr. 2; Sp. p. 574; Gaz. vol. 177; p. 90.
Bucherer, Hans, assignor to Kalle and Company, Aktiengesellschaft, Biebrich, Germany. Manufacture of azo coloring-matters containing a carbazole derivative. No. 1,024,308; Apr. 23; Sp. p. 5456; Gaz. vol. 177; p. 956.
Bucherer, Hans, assignor to Kalle & Company, Aktiengesellschaft, Biebrich, Germany. Manufacture of azo coloring-matter. No. 1,026,902; May 21; Sp. p. 4003; Gaz. vol. 178; p. 687.
Buchert, Gottfried, Laurahutte, Germany. Apparatus for removing superfluous metal from metal-coated bodies. No. 1,034,687; Aug. 6; Gaz. vol. 181; p. 94.
Buchholz, Theodor, Berlin, assignor to Faconeisen-Walzwerk L. Mannstaedt & Cie., Act. Ges., Kalk, near Cologne, Germany. Door-frame. No. 1,015,989; Jan. 30; Sp. p. 6370; Gaz. vol. 174; p. 1109.
Buchler, Isidor, New York, N. Y. Razor-stropping machine. No. 1,016,931; Feb. 13; Sp. p. 1548; Gaz. vol. 175; p. 275.
Buchler, Isidor, New York, N. Y. Razor-stropping machine. No. 1,029,911; June 18; Sp. p. 4032; Gaz. vol. 179; p. 700.
Buchmann, Heinrich, Mannhaven, N. D. Steam-engine. No. 1,042,196; Oct. 22; Gaz. vol. 183; p. 952.
Büchner, Louis F. A. (See Greene and Büchner.)
Buck, Arthur P., and M. C. Benedict, Los Angeles, Cal. Well-reaming implement. No. 1,045,670; Nov. 26; Gaz. vol. 184; p. 1007.
Buck, Bennett C., Beardstown, Ill. Safety-razor. No. 1,020,796; Mar. 19; Sp. p. 3814; Gaz. vol. 176; p. 668.
Buck, Elijah, Marshall, Mich. Sanitary cuspidor. No. 1,017,203; Feb. 13; Sp. p. 2177; Gaz. vol. 175; p. 370.
Buck, Fred E., Jacksonville, Fla. Dental apparatus. No. 1,036,441; Aug. 20; Gaz. vol. 181; p. 763.
Buck, George C., deceased, Colorado Springs, Colo.; M. E. Buck, administratrix. Current-meter. No. 1,034,399; July 30; Gaz. vol. 180; p. 1365.
Buck, Herman J., Minneapolis, assignor to Mathews Gravity Carrier Company, St. Paul, Minn. Gravity-carrier. No. 1,022,823; Apr. 9; Sp. p. 2296; Gaz. vol. 177; p. 392.
Buck, Herman J., Minneapolis, assignor to Mathews Gravity Carrier Company, St. Paul, Minn. Coupling device for carrier-sections. No. 1,038,842; Sept. 17; Gaz. vol. 182; p. 633.
Buck, Herman J., Minneapolis, assignor to Mathews Gravity Carrier Company, St. Paul, Minn. Carrier. No. 1,041,424; Oct. 15; Gaz. vol. 183; p. 657.
Buck, John M. (See Cave and Buck.)
Buck, Joseph E., Spring Bay, Ontario, Canada. Knife. No. 1,040,138; Oct. 1; Gaz. vol. 183; p. 157.
Buck, Margaret E., administratrix. (See Buck, George C.)
Buck, Mary M. (See Perkins and Buck.)
Buck, Oliver R., Hotchkiss, Colo. Sign. No. 1,014,564; Jan. 9; Sp. p. 3214; Gaz. vol. 174; p. 535.
Buck, Oliver R., Hotchkiss, Colo. Motor. No. 1,034,193; July 30; Gaz. vol. 180; p. 1292.
Buck, Vertrude P., assignor to Shawmut Machinery Company, Boston, Mass. Hand-operated cementing-machine. No. 1,014,618; Jan. 9; Sp. p. 3344; Gaz. vol. 174; p. 555.
Buckau, Ernst W., New York, N. Y. Golf-ball mold. No. 1,034,580; Aug. 6; Gaz. vol. 181; p. 60.
Buckau, Ernst W., New York, N. Y. Golf-ball mold. No. 1,041,958; Oct. 22; Gaz. vol. 183; p. 874.
Buckeye Manufacturing Company, The. (See Lambert, John W., assignor.)
Buckeye Steel Castings Company, The. (See Bush, Samuel P., assignor.)
Buckeye Traction Ditcher Company, The. (See Brown, Chalmers S., assignor.)
Buckhalt, Charlie E., Enterprise, Ala. Gate. No. 1,016,397; Feb. 6; Sp. p. 364; Gaz. vol. 175; p. 57.
Buckham, George T. (See Dawson and Buckham.)
Buckham, George T., Westminster, London, assignor to Vickers Sons & Maxim, Limited, London, England. Elevating and sighting apparatus of field-guns. No. 1,013,585; Jan. 2; Sp. p. 1063; Gaz. vol. 174; p. 172.
Buckham, George T., assignor to Vickers Sons & Maxim Limited, Westminister, England. Elevating and sighting apparatus of field-guns. No. 1,013,837; Jan. 2; Sp. p. 1626; Gaz. vol. 174; p. 260.
Buckingham, Benjamin J., assignor, by mesne assignments, to Buckingham-Rae Company, Chicago, Ill. Display-rack. No. 1,026,241; May 14; Sp. p. 2542; Gaz. vol. 178; p. 426.
Buckingham, Fremont H., assignor to Standard Computing Scale Company, Limited, Detroit, Mich. Scale. No. 1,013,272; Jan. 2; Sp. p. 398; Gaz. vol. 174; p. 64.
Buckingham-Rae Company. (See Buckingham, Benjamin J., assignor.)
Buckingham, Walter E., Brooklyn, assignor to Lackawanna Steel Company, New York, N. Y. Junction member for steel sheet-piling. No. 1,032,109; July 9; Gaz. vol. 180; p. 476.
Buckius, Albert O., Jr., Chicago, Ill., assignor to The National Malleable Castings Company, Cleveland, Ohio. Journal-box-securing mechanism. No. 1,023,809; Apr. 23; Sp. p. 4335; Gaz. vol. 177; p. 784.
Buckle, John, Beverly, Mass., assignor to United-Xpedite Finishing Company, Berwick, Me. Heel-finishing machine. No. 1,048,647; Dec. 31; Gaz. vol. 185; p. 1121.
Buckley Automatic Flag-Pole Company. (See Buckley, John J., assignor.)
Buckley, James J., Washington, D. C. Antifriction-bearing. No. 1,044,342; Nov. 12; Gaz. vol. 184; p. 484.
Buckley, John J., Dorchester, Mass., assignor to Buckley Automatic Flag-Pole Company. Flagstaff. No. 1,048,291; Dec. 24; Gaz. vol. 185; p. 960.
Buckley, John P., assignor to Larkin Manufacturing Company, Dayton, Ohio. Coupling attaching and testing machine. No. 1,022,720; Apr. 9; Sp. p. 2083; Gaz. vol. 177; p. 358.
Buckley, Minerva R., Cherryvale, Kans. Filter. No. 1,034,194; July 30; Gaz. vol. 180; p. 1293.
Buckley, Warren B., Washington, D. C., assignor to Air-Ease Tire Filler Company. Tire-filler. No. 1,042,884; Oct. 29; Gaz. vol. 183; p. 1219.
Bucklin, Charles S., Baltimore, Md., assignor to American Can Company, New York, N. Y. Can-cap lacquering or coating machine. No. 1,013,858; Jan. 9; Sp. p. 1711; Gaz. vol. 174; p. 296.
Buckman, Edward A., Green Bay, Wis., and H. L. Felio, Chicago, Ill. Coin-testing appliance. No. 1,027,032; May 21; Sp. p. 4315; Gaz. vol. 178; p. 733.
Bucknall, Edward, Jr., and P. Nevill, Willenhall, England. Trunk-fastener. No. 1,029,845; June 18; Sp. p. 3886; Gaz. vol. 179; p. 677.
Bucknam, Ezra S., assignor to The J. G. Brill Company, Philadelphia, Pa. Fare-box. No. 1,032,876; July 16; Gaz. vol. 180; p. 782.
Bucknam, Worthy C., Jersey City, N. J., assignor to Davis-Bournonville Company, New York, N. Y. Cutting-torch. No. 1,044,741; Nov. 19; Gaz. vol. 184; p. 652.
Bucknam, Worthy C., Jersey City, N. J., assignor to Davis-Bournonville Company, New York, N. Y. Torch. No. 1,045,506; Nov. 26; Gaz. vol. 184; p. 947.

Alphabetical list of patentees—Continued.

Buckner, Neptune, *et al.* (See Christopher, Calvin F., assignor.)
Buckow, Oscar A. V., Newark, N. J. Combination pipe and tobacco case. No. 1,039,892; Oct. 1; Gaz. vol. 183; p. 75.
Bukowsky, Reinhold, New York, N. Y. Means for controlling the expression of pneumatic music-players. No. 1,047,494; Dec. 17; Gaz. vol. 185; p. 660.
Buck's Stove and Range Company, The. (See Pamplin, Peter A., assignor.)
Buckwalter, Joseph A., assignor to Buckwalter Stove Company, Royersford, Pa. Gas-heated oven. No. 1,045,940; Dec. 3; Gaz. vol. 185; p. 49.
Buckwalter Stove Company. (See Buckwalter, Joseph A., assignor.)
Buckwalter, Tracy V., Altoona, Pa. Tire. No. 1,016,472; Feb. 6; Sp. p. 540; Gaz. vol. 175; p. 83.
Buckwalter, Tracy V., Altoona, assignor of one-half to A. S. Vogt, Philadelphia, Pa. Combined coupling and steering mechanism. No. 1,024,675; Apr. 30; Sp. p. 6332; Gaz. vol. 177; p. 1116.
Bucyrus Company, The. (See Ferris, Walter, assignor.)
Bucyrus Company, The. (See Frayer, Charles A., assignor.)
Buda Company, The. (See Jenkins, Merrill L., assignor.)
Buda Foundry & Manufacturing Company. (See Klein and Penrose, assignors.)
Buda Foundry & Manufacturing Company. (See Place and Cross, assignors.)
Budd, Edward G., assignor, by mesne assignments, to Hale and Kilburn Company, Philadelphia, Pa. Car construction. No. 1,017,243; Feb. 13; Sp. p. 2261; Gaz. vol. 175; p. 384.
Budd, Edward G., assignor, by mesne assignments, to Hale and Kilburn Company, Philadelphia, Pa. Pedestal. No. 1,020,740; Mar. 19; Sp. p. 3705; Gaz. vol. 176; p. 649.
Budd, Edward G., assignor, by mesne assignments, to Hale and Kilburn Company, Philadelphia, Pa. Pedestal. No. 1,020,741; Mar. 19; Sp. p. 3706; Gaz. vol. 176; p. 650.
Budd, Edward G., assignor, by mesne assignments, to Hale and Kilburn Company, Philadelphia, Pa. Metallic door. No. 1,020,742; Mar. 19; Sp. p. 3708; Gaz. vol. 176; p. 650.
Budd, Edward G., assignor, by mesne assignments, to Hale and Kilburn Company, Philadelphia, Pa. Metallic frame. No. 1,042,644; Oct. 29; Gaz. vol. 183; p. 1135.
Budd, Edward G., assignor, by mesne assignments, to Hale and Kilburn Company, Philadelphia, Pa. Metallic paneling. No. 1,045,507; Nov. 26; Gaz. vol. 184; p. 948.
Budd, Edward G., assignor, by mesne assignments, to Hale and Kilburn Company, Philadelphia, Pa. Desk. No. 1,046,731; Dec. 10; Gaz. vol. 185; p. 365.
Budd, Edward G., and J. H. Gravell, assignors, by mesne assignments, to Hale and Kilburn Company, Philadelphia, Pa. Welding. No. 1,042,885; Oct. 29; Gaz. vol. 183; p. 1219.
Budd, Harry, Independence, Kans. Gearing-shield. No. 1,035,854; Aug. 20; Gaz. vol. 181; p. 559.
Budd, James H. (See Pierce, James H., assignor.)
Budde, Henry A., Manchester, Conn. Clutch. No. 1,043,566; Nov. 5; Gaz. vol. 184; p. 187.
Buddington, Frank E., Chicago, Ill. Tip for gas-burners. No. 1,043,396; Nov. 5; Gaz. vol. 184; p. 125.
Buddle, George T., Chicago, Ill. Door-latch. No. 1,022,769; Apr. 9; Sp. p. 2186; Gaz. vol. 177; p. 375.
Buddle, George T., Chicago, Ill. Door-hanger. No. 1,046,961; Dec. 10; Gaz. vol. 185; p. 443.
Buddle, George T., assignor of one-half to E. E. Ward, Chicago, Ill. Washing-machine. No. 1,042,391; Oct. 29; Gaz. vol. 183; p. 1044.
Buderer, Rudolf, H. Brönnle, and C. W. Reich, Stuttgart, Germany. Time-switch for lighting-circuits. No. 1,045,941; Dec. 3; Gaz. vol. 185; p. 49.
Budesheim, William, Brooklyn, Md. Pneumatic lifting-jack. No. 1,046,145; Dec. 3; Gaz. vol. 185; p. 119.
Budleiner, John, Allentown, Pa. Refrigerator-lock. No. 1,049,203; Dec. 31; Gaz. vol. 185; p. 1312.
Budlong, Wilbur F., Berea, Ohio. Vise or chuck or like machine. No. 1,017,846; Feb. 20; Sp. p. 3572; Gaz. vol. 175; p. 626.
Budlong, Wilbur F., Berea, Ohio. Valve. No. 1,041,237; Oct. 15; Gaz. vol. 183; p. 594.
Bue, Peder J. (See Patten, Gray, and Bue.)
Bueb, Julius, Dessau, Germany. Manufacture of ammonium carbonate. No. 1,018,406; Feb. 27; Sp. p. 4810; Gaz. vol. 175; p. 852.
Bueb, Julius, Dessau, Germany. Obtaining cyanogen and its compounds. No. 1,032,988; July 16; Gaz. vol. 180; p. 819.
Buechner, Albert O., Zürich, Switzerland, assignor to Prana Gesellschaft für Tageslicht-Projektion mit Beschränkter Haftung, Hamburg, Germany. Manufacture of projection-screens. No. 1,044,135; Nov. 12; Gaz. vol. 184; p. 412.
Buehler, Fred, and A. P. Goff, St. Joseph, Mo. Churn. No. 1,020,883; Mar. 19; Sp. p. 3995; Gaz. vol. 176; p. 696.
Buel, Albert W. (See Ferguson and Buel.)
Buell, Albert W., St. Paul, Minn., assignor to Federal Electric Company, Chicago, Ill. Swivel-plug attachment. No. 1,028,429; June 4; Sp. p. 803; Gaz. vol. 179; p. 121.
Buell, Delilah H., Bridgeport, Conn. Hose-supporting clasp. No. 1,040,139; Oct. 1; Gaz. vol. 183; p. 157.
Buell, Fred B., assignor to J. M. McCabe, Canandaigua, N. Y. Hand-operated vacuum-cleaner. No. 1,034,342; July 30; Gaz. vol. 180; p. 1344.
Buell, William H., assignor to Winchester Repeating Arms Co., New Haven, Conn. Priming mixture. No. 1,027,814; May 28; Sp. p. 5951; Gaz. vol. 178; p. 1033.
Buell, Young K., New York, N. Y. Lamp-chimney. No. 1,022,353; Apr. 2; Sp. p. 1252; Gaz. vol. 177; p. 201.
Buengers, John P., Racine, Wis. Kite. No. 1,014,369; Jan. 9; Sp. p. 2859; Gaz. vol. 174; p. 473.
Buer, Heinrich C., Bonn, Germany. Butter-flavoring. No. 1,014,690; Jan. 16; Sp. p. 3571; Gaz. vol. 174; p. 611.
Buer, Heinrich C., Bonn, Germany. Producing lecithin. No. 1,019,945; Mar. 12; Sp. p. 2010; Gaz. vol. 176; p. 347.
Buercklin, Samuel W., Prague, Okla. Spring-cushioned wheel. No. 1,049,046; Dec. 31; Gaz. vol. 185; p. 1260.
Buess, Wilhelm, Hanover, Germany. Crucible-furnace. No. 1,044,012; Nov. 12; Gaz. vol. 184; p. 371.
Buettner, John, Chicago, Ill. Heating appliance. No. 1,040,140; Oct. 1; Gaz. vol. 183; p. 158.
Buettner, William A., and A. Shelburne, Terre Haute, Ind. Cutter-chain for mining-machines. No. 1,023,549; Apr. 16; Sp. p. 3812; Gaz. vol. 177; p. 673.
Buffalo Air Brake Co. (See Webster and Lacy, assignors.)
Buffalo Forge Company. (See Comfort and Carrier, assignors.)
Buffalo Forge Company. (See Van Deventer, John H., assignor.)
Buffalo Foundry and Machine Company. (See Miles, Henry D., assignor.)
Buffalo Gasolene Motor Company. (See Blair, William E., assignor.)
Buffalo Leather Co. (See Smith, William R., assignor.)
Buffalo Lounge Company. (See Jacobs, Henry J., assignor.)
Buffalo Pitts Company. (See Todd, Marquis J., assignor.)
Buffalo Pitts Company. (See Vraalstad, Edward J., assignor.)
Buffalo Radiator Company. (See McKeown, William C., assignor.)
Buffalo Shoe Co. (See Coupal, Arthur E., assignor.)
Buffalo Shoe Co. (See Coupal, Peter A., assignor.)
Buffalo Sled Company. (See Orcutt, Charles D., assignor.)
Buffalo Specialty Company. (See Cabana, Charles, assignor.)
Buffalo Specialty Company. (See Enell, Otto E., assignor.)
Buffehr, John, Robinson, Colo. Snow-plow. No. 1,016,669; Feb. 6; Sp. p. 1001; Gaz. vol. 175; p. 151.
Buffinger, Lewis A., New York, N. Y., and D. Robertson, Boonton, N. J. One-piece bracket. No. 1,037,122; Aug. 27; Gaz. vol. 181; p. 1025.
Buffinger, Lewis A., New York, N. Y., and D. Robertson, Boonton, N. J. Combined seat and stiffener. No. 1,039,692; Oct. 1; Gaz. vol. 183; p. 6.
Buffington, Calvin A., Berkshire, N. Y. Chair. No. 1,023,717; Apr. 16; Sp. p. 4132; Gaz. vol. 177; p. 725.
Buffinton, John A., Providence, R. I., assignor to Potter & Buffinton Company. Stud. No. 1,048,292; Dec. 24; Gaz. vol. 185; p. 960.
Buffulini, Vittorio, and R. Rottenbacher, Trieste, Austria-Hungary. Wreck-raising appliance. No. 1,030,869; July 2; Gaz. vol. 180; p. 7.
Buffum, Frank W., Louisiana, Mo. Oil-can holder. No. 1,021,037; Mar. 26; Sp. p. 4313; Gaz. vol. 176; p. 801.
Buffum Tool Company. (See Mann, Miles H., assignor.)
Bugg, Claude, Clinton, Ky. Automobile steering-guide. No. 1,023,810; Apr. 23; Sp. p. 4336; Gaz. vol. 177; p. 784.
Bugla, Mary, assignor of one-fourth to A. Dolezal, Frederick, Colo. Flower-holder. No. 1,032,184; July 9; Gaz. vol. 180; p. 502.
Bugnon, Achille, Paris, France. Distributing-valve operating and reversing mechanism for motors worked by expansible motive fluids. No. 1,039,893; Oct. 1; Gaz. vol. 183; p. 75.
Bugosh, John, McKeesport, Pa. Wrench. No. 1,031,418; July 2; Gaz. vol. 180; p. 200.
Buhoup, Harry C., Chicago, Ill. Uncoupling device for car-couplings. No. 1,021,913; Apr. 2; Sp. p. 338; Gaz. vol. 177; p. 56.
Buhoup, Harry C., Chicago, Ill. Coupling-release rigging. No. 1,021,914; Apr. 2; Sp. p. 340; Gaz. vol. 177; p. 57.
Buhoup, Harry C., Chicago, Ill., assignor to The McConway & Torley Company, Pittsburgh, Pa. Coupling-controlling mechanism. No. 1,021,446; Mar. 26; Sp. p. 5201; Gaz. vol. 176; p. 941.
Buhoup, Harry C., Chicago, Ill., assignor to The McConway & Torley Company, Pittsburgh, Pa. Car-coupling. No. 1,036,556; Aug. 27; Gaz. vol. 181; p. 835.
Bühring, Otto, Mannheim, Germany. Apparatus for the separation of condensed water from lubricating-oil. No. 1,045,811; Dec. 3; Gaz. vol. 185; p. 5.

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Buick Motor Co. (See Sturt, Alfred T., assignor.)
Buickerood, John W., Boundbrook, N. J. Marcel waver. No. 1,042,886; Oct. 29; Gaz. vol. 183; p. 1219.
Buigné, Franz de, Magdeburg, Germany. Delivery-pipe for casting apparatus. No. 1,024,553; Apr. 30; Sp. p. 6067; Gaz. vol. 177; p. 1074.
Buigné, Franz de, Magdeburg, Germany. Casting metals. No. 1,026,733; May 21; Sp. p. 3617; Gaz. vol. 178; p. 628.
Buigné, Franz de, Vienna, Austria-Hungary. Step in the mode of making die-stamps or the like. No. 1,046,146; Dec. 3; Gaz. vol. 185; p. 120.
Builta, Elton B., Arrowsmith, Ill. Cultivator. No. 1,022,354; Apr. 2; Sp. p. 1254; Gaz. vol. 177; p. 201.
Bull, Frank W., Oshawa, Ontario, Canada. Operating mechanism for tracker-bars. No. 1,021,747; Mar. 26; Sp. p. 5795; Gaz. vol. 176; p. 1040.
Bull, John H., Indianapolis, Ind. Automobile gearing-lock. No. 1,036,186; Aug. 20; Gaz. vol. 181; p. 674.
Bullard, Albert H., New Rochelle, N. Y. Coffee preparation. No. 1,026,971; May 21; Sp. p. 4170; Gaz. vol. 178; p. 712.
Bullard, Albert M., deceased; M. R. Bullard, administratrix, assignor to Western Electric Company, New York, N. Y. Revertive-call-indicating means for telephone-exchange systems. No. 1,026,199; May 14; Sp. p. 2449; Gaz. vol. 178; p. 411.
Bullard, Albert M., deceased, (M. R. Bullard, administratrix, Woodstock,) and J. N. Reynolds, assignors to Western Electric Company, New York, N. Y. Controlling system for automatic switching apparatus. No. 1,020,185; Mar. 12; Sp. p. 2512; Gaz. vol. 176; p. 427.
Bullard, Edward P., Jr., Bridgeport, Conn. Adjusting device for feed-shafts. No. 1,024,309; Apr. 23; Sp. p. 5459; Gaz. vol. 177; p. 957.
Bullard, Edward P., Jr., assignor to The Bullard Machine Tool Co., Bridgeport, Conn. Machine-table-spindle bearing. No. 1,047,162; Dec. 17; Gaz. vol. 185; p. 541.
Bullard, Edwin W. (See Bullard, James H. and E. W.)
Bullard, Ernest S., Wheeling, W. Va. Shock-absorber. No. 1,033,870; July 30; Gaz. vol. 180; p. 1179.
Bullard, James H. and E. W., assignors, by mesne assignments, to United Nut Lock Company, Springfield, Mass. Nut-locking device. No. 1,028,859; June 11; Sp. p. 1708; Gaz. vol. 179; p. 299.
Bullard, James H. and E. W., assignors to A. C. Fairbanks, Springfield, Mass. Nut-lock. No. 1,029,846; June 18; Sp. p. 3888; Gaz. vol. 179; p. 677.
Bullard Machine Tool Co., The. (See Bullard, Edward P., Jr., assignor.)
Bullard, Marion R., administratrix. (See Bullard, Albert M.)
Bullard, Marion R., administratrix. (See Bullard and Reynolds.)
Bullen, John R., Parnell, near Auckland, New Zealand. Attachment for garden and other syringes. No. 1,044,985; Nov. 19; Gaz. vol. 184; p. 736.
Buller, Fred A., Springfield, S. D. Gambrel. No. 1,022,298; Apr. 2; Sp. p. 1140; Gaz. vol. 177; p. 183.
Bulley, George W., assignor to Holsman Equipment Company, Chicago, Ill. Transmission-gearing. No. 1,026,073; May 14; Sp. p. 2176; Gaz. vol. 178; p. 368.
Bullock, Arthur R., Cleveland, Ohio. Impregnating substances. No. 1,035,777; Aug. 13; Gaz. vol. 181; p. 495.
Bullock, Arthur R., Cleveland, Ohio. Condenser arrangement. No. 1,048,034; Dec. 24; Gaz. vol. 185; p. 874.
Bullock, Calvin, Denver, Colo. Covering for automobile radiators and hoods. No. 1,015,474; Jan. 23; Sp. p. 5277; Gaz. vol. 174; p. 904.
Bullock, Charles A. H. (See Daniel and Bullock.)
Bullock, Edward T., Ridley Park, assignor of one-third to E. W. Twaddell, Devon, Pa. Hedge-trimming machine. No. 1,039,021; Sept. 17; Gaz. vol. 182; p. 692.
Bullock Electric Manufacturing Company, The, *et al.* (See Behrend, Bernard A., assignor.)
Bullock Electric Manufacturing Company, The, *et al.* (See Crocker, Clarence T., assignor.)
Bullock Electric Manufacturing Company. (See Elshoff, Bernard, assignor.)
Bullock Electric Manufacturing Company, The, *et al.* (See Frankenfield, Budd, assignor.)
Bullock Electric Manufacturing Company, The, *et al.* (See Lietzenmayer, William J., assignor.)
Bullock Electric Manufacturing Company *et al.* (See McHugh, Anthony L., assignor.)
Bullock Electric Manufacturing Company, The. (See Press, Abraham, assignor.)
Bullock Electric Manufacturing Company, The. (See Ralston, Howard H., assignor.)
Bullock Electric Manufacturing Company, The, *et al.* (See Wouters, Alfred H., assignor.)
Bullock, H. E. and J. E. (See Houghton, Orley C., assignor.)
Bullock, Helena M. S., Cambridge, Mass. Device for prolonging sleep. No. 1,047,163; Dec. 17; Gaz. vol. 185; p. 542.
Bullock, Henry E., *et al.* (See Scherling, Rudolph C., assignor.)
Bullock, James M., Philadelphia, Pa. Sample-package. No. 1,046,962; Dec. 10; Gaz. vol. 185; p. 443.
Bullock, James W., Wigan, England. Lubricating device. No. 1,047,743; Dec. 17; Gaz. vol. 185; p. 749.
Bullock, Raymond G., assignor to Art Metal Construction Company, Jamestown, N. Y. Base-lock for horizontal sectional units. No. 1,036,442; Aug. 20; Gaz. vol. 181; p. 763.
Bulock, Charles O., Cleveland, Ohio. Carbureter. No. 1,019,128; Mar. 5; Sp. p. 273; Gaz. vol. 176; p. 42.
Bulson, Moses L., Glasco, Kans. Oil-burner. No. 1,014,999; Jan. 16; Sp. p. 4270; Gaz. vol. 174; p. 717.
Bultman, Cyrus C., Cleveland, Ohio. Mechanical movement. No. 1,016,545; Feb. 6; Sp. p. 734; Gaz. vol. 175; p. 108.
Bültzingslöwen, Bruno von, assignor to The Bruno Works, New York, N. Y. Machine for bending the cross-heads and eyes of wire bale-ties. No. 1,039,894; Oct. 1; Gaz. vol. 183; p. 75.
Bumann, Theodore, Litchfield, Ill. Liquid-receptacle. No. 1,015,420; Jan. 23; Sp. p. 5151; Gaz. vol. 174; p. 885.
Bumer, Frank, Monessen, Pa. Pen. No. 1,033,533; July 23; Gaz. vol. 180; p. 1041.
Bunau-Varilla, Philippe, Paris, France. Machine for molding printing-blocks. No. 1,020,023; Mar. 12; Sp. p. 2166; Gaz. vol. 176; p. 373.
Bunce, Albert L., assignor to Workman Manufacturing Company, Chicago, Ill. Temporary binder. No. 1,019,020; Mar. 5; Sp. p. 15; Gaz. vol. 176; p. 5.
Bunce, James A., Seattle, Wash. Automatic fire-door closer. No. 1,035,314; Aug. 13; Gaz. vol. 181; p. 338.
Bundy, Clifton L., assignor to Philadelphia Electrical and Manufacturing Company, Philadelphia, Pa. Series lamp-fixture. No. 1,039,645; Sept. 24; Gaz. vol. 182; p. 926.
Bundy, Clifton L., assignor to Philadelphia Electrical and Manufacturing Company, Philadelphia, Pa. Arc-light cut-out. No. 1,047,744; Dec. 17; Gaz. vol. 185; p. 750.
Bundy, Cyrus L., *et al.* (See Acker, Julius J., assignor.)
Bundy, Cyrus L., Kingsland, N. J., assignor to W. H. Miner, Chicago, Ill. Draft-rigging. No. 1,044,344; Nov. 12; Gaz. vol. 184; p. 485.
Bundy, Cyrus L., Kingsland, N. J., assignor, by mesne assignments, to W. H. Miner, Chicago, Ill. Friction draft-rigging for railway-cars. No. 1,048,648; Dec. 31; Gaz. vol. 185; p. 1121.
Bundy, Henry C., assignor of two-thirds to F. Morrison and E. Pinsonneault, Watertown, N. Y. Door opening and closing device. No. 1,040,504; Oct. 8; Gaz. vol. 183; p. 310.
Bundy, Jesse H., Greenfield, Ind. Swivel-joint hose-coupling. No. 1,020,258; Mar. 12; Sp. p. 2662; Gaz. vol. 176; p. 452.
Bundy, Willard H., assignor to W. H. Bundy Recording Company, Syracuse, N. Y. Recording-machine. No. 1,034,415; Aug. 6; Gaz. vol. 181; p. 5.
Bunet, Paul, Paris, and A. Badin, assignors of one-third to Compagnie des Produits Chimiques d'Alais & de la Camaigue, Salindres, France. Producing compounds of oxygen and nitrogen. No. 1,035,684; Aug. 13; Gaz. vol. 181; p. 464.
Bunker, Loyd H., and A. H. Hempel, assignors of one-fourth to G. W. Upton, Warren, Ohio. Means for cleansing lamp-bulbs. No. 1,034,343; July 30; Gaz. vol. 180; p. 1344.
Bunn, Benjamin H. and R. N., Chicago, Ill. Parcel-tier. No. 1,038,843; Sept. 17; Gaz. vol. 182; p. 634.
Bunn, Romanzo N. (See Bunn, Benjamin H. and R. N.)
Bunnell, Charles E., *et al.* (See Foss, Walter O., assignor.)
Bunnell, Morton G., assignor to F. C. Austin, Chicago, Ill. Wheel-support. No. 1,030,501; June 25; Sp. p. 5338; Gaz. vol. 179; p. 945.
Bunnell, Morton G., assignor to F. C. Austin, Chicago, Ill. Wheel-support. No. 1,037,428; Sept. 3; Gaz. vol. 182; p. 85.
Bunnell, Morton G., assignor to F. C. Austin, Chicago, Ill. Excavator. No. 1,037,429; Sept. 3; Gaz. vol. 182; p. 85.
Bunting, George W., Ocean City, Md. Mechanical motor. No. 1,030,566; June 25; Sp. p. 5544; Gaz. vol. 179; p. 967.
Bunting, Millard R., J. Muldoon, Baltimore, Md., and L. S. Springer, Washington, D. C. Rotary printing-machine. No. 1,029,847; June 18; Sp. p. 3889; Gaz. vol. 179; p. 677.
Bunyan, Rush, Lestershire, N. Y. Attachment for shoe-lasting machines. No. 1,022,299; Apr. 2; Sp. p. 1141; Gaz. vol. 177; p. 183.
Bunzel, Herbert H., Washington, D. C. Determining the oxidase content of plant-juices. No. 1,034,400; July 30; Gaz. vol. 180; p. 1366.
Bunzel, Herbert H., Washington, D. C. Oxidase apparatus. No. 1,046,259; Dec. 3; Gaz. vol. 185; p. 160.
Bunzel, Herbert H., Washington, D. C. Titration apparatus. No. 1,046,260; Dec. 3; Gaz. vol. 185; p. 161.
Buoy, John W., Eugene, Oreg., assignor of one-third to M. V. Parsons. Door-stop. No. 1,018,871; Feb. 27; Sp. p. 5856; Gaz. vol. 175; p. 1011.
Buquoi, George V., St. James, La. Telegraph-key. No. 1,036,443; Aug. 20; Gaz. vol. 181; p. 764.

Alphabetical list of patentees—Continued.

Burbank, Louis S., assignor to Draper Company, Hopedale, Mass. Thread-parting mechanism for looms. No. 1,045,508; Nov. 26; Gaz. vol. 184; p. 948.
Burby, John M., Astoria, N. Y. Apparatus for removing impurities from pulped waste papers. No. 1,013,529; Jan. 2; Sp. p. 958; Gaz. vol. 174; p. 154.
Burby, John M., Astoria, N. Y. Recovery of pulp from waste news print and other grades of paper. No. 1,029,848; June 18; Sp. p. 3893; Gaz. vol. 179; p. 678.
Burby, John M., Long Island City, assignor to John M. Burby Company, New York, N. Y. Bearing for shafts. No. 1,019,300; Mar. 5; Sp. p. 663; Gaz. vol. 176; p. 103.
Burch, Frederick W., Pueblo, Colo. Fruit-picking bag. No. 1,029,486; June 11; Sp. p. 3075; Gaz. vol. 179; p. 516.
Burch, Frederick W., Pueblo, Colo, Combination bed-sheet, tent, and sleeping-bag. No. 1,048,806; Dec. 31; Gaz. vol. 185; p. 1178.
Burch, Jacob M., assignor of one-fourth to J. Lafors, Wallace, Idaho. Black-sand-separating machine. No. 1,017,506; Feb. 13; Sp. p. 2813; Gaz. vol. 175; p. 475.
Burch, John H., Clay, Miss. Churn. No. 1,035,685; Aug. 13; Gaz. vol. 181; p. 464.
Burch, Mark H., Allenhurst, N. J. Put-up for dry goods. No. 1,019,021; Mar. 5; Sp. p. 17; Gaz. vol. 176; p. 6.
Burch Plow Works Co., The. (See Hill, Thomas A., assignor.)
Burch, William J. J., Chicago, Ill. Rotatable game-table. No. 1,025,678; May 7; Sp. p. 1268; Gaz. vol. 178; p. 196.
Burch, Willie, Lowell, Mich. Rail-support and rail. No. 1,026,341; May 14; Sp. p. 2761; Gaz. vol. 178; p. 461.
Burchard, Lewis W. (See Fries, Martin G., assignor.)
Burchardi, Bernhard T. (See Wahlstrom, Verner J., assignor.)
Burchartz, Ferdinand, New York, N. Y. Blocks for building construction. No. 1,029,530; June 11; Sp. p. 3158; Gaz. vol. 179; p. 530.
Burchartz, Ferdinand, New York, N. Y. Building-block. No. 1,047,614; Dec. 17; Gaz. vol. 185; p. 703.
Burchett, Louis H., Cashion, Okla. Vapor-lamp. No. 1,034,973; Aug. 6; Gaz. vol. 181; p. 192.
Burchett, Louis H., Cashion, Okla. Sad-iron handle. No. 1,043,197; Nov. 5; Gaz. vol. 184; p. 54.
Bürck, Theodor. (See Maisenbacher and Bürck.)
Burdett, Le Blond. (See Hill, Mark E., assignor.)
Burdick, Adelbert S. (See Hess and Burdick.)
Burdick, Edward N., Westerly, R. I. Photographic-print washer. No. 1,029,487; June 11; Sp. p. 3076; Gaz. vol. 179; p. 516.
Burdick, Fred F., River Forest, Ill. Collapsible cabinet. No. 1,028,326; June 4; Sp. p. 570; Gaz. vol. 179; p. 85.
Burdick, Fred F., Chicago, Ill. Collapsible cabinet. No. 1,048,807; Dec. 31; Gaz. vol. 185; p. 1178.
Burdick, James M., assignor to The Stanley Rule & Level Company, New Britain, Conn. Plane. No. 1,048,455; Dec. 24; Gaz. vol. 185; p. 1016.
Burdick, R. De Witt, *et al.* (See Messenger, Isaiah L., assignor.)
Burdick, Ralph S. N., Bishop, Cal. Woodworking-tool. No. 1,043,902; Nov. 12; Gaz. vol. 184; p. 331.
Burdon, John, W. M., and M. M., Bellshill, Scotland. Liquid-fuel atomizer. No. 1,046,412; Dec. 3; Gaz. vol. 185; p. 215.
Burdon, Matthew M. (See Burdon, John, W. M., and M. M.)
Burdy, Louis, and E. F. Moine, Eureka, Cal. Resilient wheel. No. 1,026,903; May 21; Sp. p. 4005; Gaz. vol. 178; p. 688.
Bureau, Auguste, La Feuillade, near Nîmes, France. Projectile. No. 1,045,671; Nov. 26; Gaz. vol. 184; p. 1007.
Buress, George. (See Long and Buress.)
Burfoot, Arthur and J., Auckland, New Zealand. Pneumatic wheel. No. 1,047,495; Dec. 17; Gaz. vol. 185; p. 661.
Burfoot, Jasper. (See Burfoot, Arthur and J.)
Burford, Charles H., Meade, Kans. Safety device for flying-machines. No. 1,024,676; Apr. 30; Sp. p. 6333; Gaz. vol. 177; p. 1116.
Burford, Charles H., and F. H. Nett, Rialto, Cal. Smudge mixer and sacker. No. 1,027,317; May 21; Sp. p. 4927; Gaz. vol. 178; p. 829.
Burgart, Philip H., Chicago, Ill. Monkey-wrench. No. 1,014,370; Jan. 9; Sp. p. 2860; Gaz. vol. 174; p. 473.
Burge, Harry. (See Macfarlane and Burge.)
Burge, Harry. (See Macfarlane, Burge, and Williams.)
Burge, James E., Lincoln, Nebr. Swinging cradle. No. 1,028,186; June 4; Sp. p. 291; Gaz. vol. 179; p. 37.
Burge, Joseph E., Denver, Colo. Combined chair and desk attachment. No. 1,023,620; Apr. 16; Sp. p. 3968; Gaz. vol. 177; p. 697.
Burgener, Christian. (See Burgener, Ernest and C.)
Burgener, Ernest, Wellesley, and C. Burgener, Linwood, Ontario, Canada. Listening-detector for telephone-lines. No. 1,016,670; Feb. 6; Sp. p. 1003; Gaz. vol. 175; p. 151.
Burger, Albert, Watkins, Minn. Binder-truck. No. 1,036,444; Aug. 20; Gaz. vol. 181; p. 764.
Burger, Charles E., Springfield, Mass. Advertising device. No. 1,038,844; Sept. 17; Gaz. vol. 182; p. 634.
Burgess, C. E. (See Humphreys, Guy F., assignor.)
Burgess, Charles F., Madison, Wis. Alloy for coating with metal. No. 1,014,751; Jan. 16; Sp. p. 3695; Gaz. vol. 174; p. 631.
Burgess, Charles F., Madison, Wis. Electromotive device. No. 1,031,038; July 2; Gaz. vol. 180; p. 66.
Burgess, Charles F., Madison, Wis., assignor to United States Sherardizing Company, New Castle, Pa. Coating with metal. No. 1,014,749; Jan. 16; Sp. p. 3690; Gaz. vol. 174; p. 630.
Burgess, Charles F., Madison, Wis., assignor to United States Sherardizing Company, New Castle, Pa. Coating with metal. No. 1,014,750; Jan. 16; Sp. p. 4693; Gaz. vol. 174; p. 631.
Burgess, Charles F., Madison, Wis., assignor to United States Sherardizing Company, New Castle, Pa. Alloy for coating with metal. No. 1,014,946; Jan. 16; Sp. p. 4154; Gaz. vol. 174; p. 698.
Burgess, Charles F., and C. Hambuechen, Madison, Wis. Battery. No. 1,032,529; July 16; Gaz. vol. 180; p. 663.
Burgess, Frank E., Columbiaville, Mich. Bleaching and treating flax fibers. No. 1,034,195; July 30; Gaz. vol. 180; p. 1293.
Burgess, Glenn H., St. Louis, Mich. Safety stand-pipe for gasolene-stoves. No. 1,015,779; Jan. 30; Sp. p. 5923; Gaz. vol. 174; p. 1036.
Burgess, Ira W., assignor of one-half to J. Howard, Minden, W. Va. Brake-shoe head. No. 1,018,294; Feb. 20; Sp. p. 4557; Gaz vol. 175; p. 782.
Burgess John J. and S. P., Rock Island, Ill. Box for warm-air registers. No. 1,041,425; Oct. 15; Gaz. vol. 183; p. 657.
Burgess, Lysle P. (See Daniels and Burgess.)
Burgess Mills. (See Ricketson and Hampson, assignors.)
Burgess-Norton Company. (See Bridges, Charles E., assignor.)
Burgess, Robert W., and A. Clark, Govan, Scotland. Apparatus for cleaning wire. No. 1,016,473; Feb. 6; Sp. p. 540; Gaz. vol. 175; p. 83.
Burgess, Samuel P. (See Burgess, John J. and S. P.)
Burgess, Yorke. (See Reh and Burgess.)
Burgess, Yorke, Chicago, Ill., assignor, by mesne assignments, to International Automatic Signal Company, Kansas City, Mo. Railway block-signaling system. No. 1,026,200; May 14; Sp. p. 2454; Gaz. vol. 178; p. 411.
Burgher, Francis I., assignor to Acme Cloth Shrinking Machinery Company, New York, N. Y. Drying-table. No. 1,030,281; June 25; Sp. p. 4835; Gaz. vol. 179; p. 865.
Burghoff, John E., and J. B. Wilks, Leominster, Mass. Comb embossing and cutting dies. No. 1,029,488; June 11; Sp. p. 3077; Gaz. vol. 179; p. 516.
Burglar Alarm Lock Company. (See Kahn, Edward C., assignor.)
Burgner, William, Carthage, Ill. Collapsible form for concrete culverts. No. 1,027,176; May 21; Sp. p. 4639; Gaz. vol. 178; p. 779.
Burgquist, Ernest J., Chicago, Ill. Changeable sign. No. 1,046,963; Dec. 10; Gaz. vol. 185; p. 443.
Burhop, Otto, Grafton, Wis. Machine for driving fence-posts. No. 1,015,421; Jan. 23; Sp. p. 5153; Gaz. vol. 174; p. 885.
Burhorn, Edwin, Hoboken, N. J. Cooling-tower. No. 1,014,371; Jan. 9; Sp. p. 2862; Gaz. vol. 174; p. 473.
Burhorn, Edwin, Hoboken, N. J. Cooling-tower. No. 1,040,875; Oct. 8; Gaz. vol. 183; p. 438.
Burian, Carl, assignor to Offene Handelsgesellschaft Gebrüder Schubert, Berlin, Germany. Hardening steel poor in carbon. No. 1,042,999; Oct. 29; Gaz. vol. 183; p. 1257.
Burk, Anthoney, Grindstone, Pa. Pin-protector. No. 1,045,369; Nov. 26; Gaz. vol. 184; p. 898.
Burk, Frederick E., Bay City, assignor to E. C. Ewen, Saginaw, Mich. Cylinder-core. No. 1,037,859; Sept. 10; Gaz. vol. 182; p. 260.
Burk, Louis, Philadelphia, Pa. Hog-scraping machine. No. 1,036,959; Aug. 27; Gaz. vol. 181; p. 969.
Burk, William H., Fostoria, Ohio. Refrigerator. No. 1,027,400; May 28; Sp. p. 5106; Gaz. vol. 178; p. 896.
Burk, William H., assignor to Corrugated Bar Company, St. Louis, Mo. Spacing device for reinforcing-rods in concrete structures. No. 1,016,319; Feb. 6; Sp. p. 190; Gaz. vol. 175; p. 29.
Burk, William H., assignor to Corrugated Bar Company, St. Louis, Mo. Concrete floor construction. No. 1,039,895; Oct. 1; Gaz. vol. 183; p. 76.
Burk, William H., assignor to Corrugated Bar Company, St. Louis, Mo. Concrete-reinforce. No. 1,043,198; Nov. 5; Gaz. vol. 184; p. 54.
Burk, William H., assignor to Corrugated Bar Company, St. Louis, Mo. Spacing device for reinforcing-bars. No. 1,043,199; Nov. 5; Gaz. vol. 184; p. 55.
Burk, William H., assignor to Corrugated Bar Company, St. Louis, Mo. Spacing device for reinforcing-bars. No. 1,043,200; Nov. 5; Gaz. vol. 184; p. 55.
Burke, Alfred W., Pittsburgh, Pa. Horn-gap switch and lightning-arrester. No. 1,022,619; Apr. 9; Sp. p. 1831; Gaz. vol. 177; p. 320.
Burke, Alfred W., Pittsburgh, Pa. Tool for slotting commutators. No. 1,048,939; Dec. 31; Gaz. vol. 185; p. 1223.

Alphabetical list of patentees—Continued.

Burke Co., The. (See Burke, Joseph H., assignor.)
Burke Electric Company. (See Burke, James, assignor.)
Burke Electric Company. (See Hitner, Harry F., assignor.)
Burke, Henry, and W. A. Peters, Chicago, Ill. Knockdown enlarging-camera. No. 1,036,557; Aug. 27; Gaz. vol. 181; p. 836.
Burke, James, Cleveland, Ohio. Track-construction machine. No. 1,015,475; Jan. 23; Sp. p. 5278; Gaz. vol. 174; p. 904.
Burke, James, Ellsworth, Minn. Lantern-support. No. 1,026,493; May 14; Sp. p. 3095; Gaz. vol. 178; p. 510.
Burke, James, Erie, Pa., assignor to Burke Electric Company. Self-oiling bearing. No. 1,017,132; Feb. 13; Sp. p. 2010; Gaz. vol. 175; p. 346.
Burke, James, Erie, Pa., assignor to Burke Electric Company. Electric motor. No. 1,026,904; May 21; Sp. p. 4006; Gaz. vol. 178; p. 688.
Burke, James, Erie, Pa., assignor to Burke Electric Company. Dynamo-electric machine. No. 1,033,379; July 23; Gaz. vol. 180; p. 991.
Burke, John F., Philadelphia, Pa. Bathing-suit. No. 1,041,012; Oct. 15; Gaz. vol. 183; p. 518.
Burke, Joseph H., assignor to The Burke Co., Portland, Me. Cutter-head. No. 1,033,380; July 23; Gaz. vol. 180; p. 991.
Burke, Louis, New York, N. Y. Ellipsograph. No. 1,026,560; May 14; Sp. p. 3219; Gaz. vol. 178; p. 532.
Burke, Richard H., Lexington, Mass. Shut-off T-valve. No. 1,020,022; Mar. 12; Sp. p. 2163; Gaz. vol. 176; p. 373.
Burke, Thomas, Cairo, W. Va. Oiler. No. 1,048,132; Dec. 24; Gaz. vol. 185; p. 908.
Burke, William J., New York, N. Y. Spectacular illusion apparatus. No. 1,037,430; Sept. 3; Gaz. vol. 182; p. 85.
Burke, William J., New York, N. Y. Toy theatrical device. No. 1,040,616; Oct. 8; Gaz. vol. 183; p. 351.
Burkett, John W., Kansas City, Kans., assignor to The Kansas City Hay Press Company. Baling-press. No. 1,017,133; Feb. 13; Sp. p. 2012; Gaz. vol. 175; p. 346.
Burkhard, William M., Beaver Falls, N. Y. Device for holding lamp-chimneys. No. 1,034,765; Aug. 6; Gaz. vol. 181; p. 122.
Burkhardt, Emil, Pforzheim, Germany. Manufacture of extensible chains. No. 1,047,377; Dec. 17; Gaz. vol. 185; p. 620.
Burkhardt, Martin L., assignor of one-half to J. P. McCabe, Minneapolis, Minn. Ice-cream cutter. No. 1,042,080; Oct. 22; Gaz. vol. 183; p. 914.
Burkhart, Louis H., Warren, Pa. Transformer-case. No. 1,025,679; May 7; Sp. p. 1269; Gaz. vol. 178; p. 197.
Burkhart, Meinrad J., Missouri Valley, Iowa. Fence-wire fastener. No. 1,020,259; Mar. 12; Sp. p. 2663; Gaz. vol. 176; p. 452.
Burkheiser, Karl, Hamburg, Germany. Recovering sulfur from gas. No. 1,018,479; Feb. 27; Sp. p. 4976; Gaz. vol. 175; p. 877.
Burkheiser, Karl, Hamburg, Germany. Converting ammonium sulfite into ammonium sulfate. No. 1,034,974; Aug. 6; Gaz. vol. 181; p. 192.
Burkholder, John R., Lancaster, Pa. Fishway. No. 1,046,964; Dec. 10; Gaz. vol. 185; p. 443.
Burks, Edgar, Eldorado, Ill. Stretching device. No. 1,039,022; Sept. 17; Gaz. vol. 182; p. 692.
Burks, James, Koran, La. Gearing. No. 1,033,534; July 23; Gaz. vol. 180; p. 1041.
Burky, August C., Shanesville, Ohio. Pretzel-iron. No. 1,034,581; Aug. 6; Gaz. vol. 181; p. 60.
Burland, Jeffrey H. (See Lathey, Myron A., assignor.)
Burleigh, Charles H. (See Lippincott, Robert E., assignor.)
Burleigh, James K., assignor to American Sign Company, Kalamazoo, Mich. Sign. No. 1,045,942; Dec. 3; Gaz. vol. 185; p. 50.
Burleigh, John A., Olean, N. Y. Molding-press. No. 1,030,252; June 18; Sp. p. 4740; Gaz. vol. 179; p. 816.
Burleson, James R., McGregor, Tex. Horse-releaser. No. 1,037,860; Sept. 10; Gaz. vol. 182; p. 261.
Burlew, Gilderoy O., Newark, N. J. Tool for fastening metal tooth-backings. No. 1,035,855; Aug. 20; Gaz. vol. 181; p. 559.
Burlin, Charles T., Whitinsville, Mass., assignor to Whitin Machine Works. Making fliers. No. 1,042,645; Oct. 29; Gaz. vol. 183; p. 1135.
Burlingame, George H., San Francisco, Cal. Stock-display case. No. 1,014,947; Jan. 16; Sp. p. 4156; Gaz. vol. 174; p. 699.
Burlingame, George L., and P. P. Menard, Chicago, Ill. Safety-valve. No. 1,039,693; Oct. 1; Gaz. vol. 183; p. 6.
Burlingham, William, Elizabeth City county, and F. P. Palen, Newport News, Va. Ash-discharger. No. 1,020,743; Mar. 19; Sp. p. 3710; Gaz. vol. 176; p. 650.
Burmeister, George F., Lorain, Ohio. Sheet-music turner. No. 1,049,047; Dec. 31; Gaz. vol. 185; p. 1261.
Burner, Elisha W., Luray, Va. Spring-wheel. No. 1,020,260; Mar. 12; Sp. p. 2664; Gaz. vol. 176; p. 452.
Burnet, Alexander, and H. Temple, London, England. Lady's toilet device. No. 1,025,448; May 7; Sp. p. 764; Gaz. vol. 178; p. 118.
Burnett, Albert, *et al.* (See Cole, Milton E., assignor.)
Burnett, Charles E., assignor of one-half to C. M. Clapp, North Rose, N. Y. Scale attachment for supporting wagon-beds. No. 1,017,244; Feb. 13; Sp. p. 2263; Gaz. vol. 175; p. 385.
Burnett, James R., Heisson, Wash. Book-holder. No. 1,038,280; Sept. 10; Gaz. vol. 182; p. 403.
Burnett, Richard W., Montreal, Quebec, Canada. Dump-car door. No. 1,017,281; Feb. 13; Sp. p. 2334; Gaz. vol. 175; p. 397.
Burnett, Richard W., Montreal, Quebec, Canada. Uncoupling mechanism for cars. No. 1,022,579; Apr. 9; Sp. p. 1741; Gaz. vol. 177; p. 307.
Burnett, Richard W., Montreal, Quebec, Canada. Angle-cock hanger for air-brake pipes of railway-cars. No. 1,031,835; July 9; Gaz. vol. 180; p. 385.
Burnett, Richard W., Montreal, Quebec, Canada. Hose-protector. No. 1,044,013; Nov. 12; Gaz. vol. 184; p. 371.
Burnett, William H. (See Binger, William H., assignor.)
Burney, Joe J., Shreveport, La. Detachable wheel-rim. No. 1,030,716; June 25; Sp. p. 5996; Gaz. vol. 179; p. 1022.
Burnham, Clarence S., Canisteo, N. Y. Table. No. 1,043,567; Nov. 5; Gaz. vol. 184; p. 187.
Burnham, George A., Saugus, assignor to S. B. Condit, Jr., Boston, Mass. Electric switch. No. 1,015,613; Jan. 23; Sp. p. 5561; Gaz. vol. 174; p. 953.
Burnham, George A., Saugus, assignor to S. B. Condit, Jr., Boston, Mass. Protecting means for electrical distribution systems. No. 1,022,355; Apr. 2; Sp. p. 1255; Gaz. vol. 177; p. 202.
Burnham, George A., Saugus, assignor to S. B. Condit, Jr., Brookline, Mass. Controlling means for electric circuits. No. 1,029,974; June 18; Sp. p. 4159; Gaz. vol. 179; p. 720.
Burnham, George A., Saugus, assignor to S. B. Condit, Jr., Boston, Mass. Selective time-limit-controlling device for electric switches. No. 1,041,716; Oct. 15; Gaz. vol. 183; p. 754.
Burnham, George A., Cliftondale, assignor to S. B. Condit, Jr., Brookline, Mass. Series transformer. No. 1,017,737; Feb. 20; Sp. p. 3282; Gaz. vol. 175; p. 588.
Burnham, George A., Cliftondale, assignor to S. B. Condit, Jr., Brookline, Mass. Series transformer. No. 1,036,445; Aug. 20; Gaz. vol. 181; p. 765.
Burns, Albert E., assignor of one-half to L. Howard, Boston, Mass. Plumb-bob. No. 1,043,295; Nov. 5; Gaz. vol. 184; p. 88.
Burns & Bassick Company, The. (See Bassick, Edgar W., assignor.)
Burns & Bassick Company, The. (See Bassick and Adams, assignors.)
Burns, Charles E., Momence, Ill. Oil-conveyer. No. 1,016,736; Feb. 6; Sp. p. 1132; Gaz. vol. 175; p. 174.
Burns, Chester B., Moline, Ill. Screw-cutter. No. 1,027,985; May 28; Sp. p. 6357; Gaz. vol. 178; p. 1091.
Burns, David M., W. B. and A. W. Shriver, Ashland, Ohio. Anchor for wire fences and other uses. No. 1,014,806; Jan. 16; Sp. p. 3819; Gaz. vol. 174; p. 650.
Burns, Forrest N., *et al.* (See Bamberger and Porter, assignors.)
Burns, Henry H., Battle Creek, Mich., assignor, by mesne assignments, to T. D. Palmer, Syracuse, N. Y. Pressing-machine. No. 1,023,066; Apr. 9; Sp. p. 2794; Gaz. vol. 177; p. 475.
Burns, Herbert A. (See Cottrell and Burns.)
Burns, James. (See Struble, James F., assignor.)
Burns, P. C. (See Goodrum, Charles L., assignor.)
Burns, Robert J., Avon, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Cementing-machine. No. 1,017,507; Feb. 13; Sp. p. 2818; Gaz. vol. 175; p. 476.
Burnside, George B., Renfrew, Scotland. Hermetically sealing electrical conductors through or into hard vitreous substances. No. 1,016,320; Feb. 6; Sp. p. 192; Gaz. vol. 175; p. 29.
Burpee, Frank W. (See Burpee, John H. and F. W.)
Burpee, John H. and F. W., Bellingham, Wash. Can-filling machine. No. 1,039,360; Sept. 24; Gaz. vol. 182; p. 826.
Burr, Jennie, Matteawan, N. Y. Ironing-board. No. 1,018,295; Feb. 20; Sp. p. 4559; Gaz. vol. 175; p. 782.
Burrell, Henry M., Pittsburgh, Pa. Nut-lock. No. 1,024,973; Apr. 30; Sp. p. 6941; Gaz. vol. 177; p. 1220.
Burritt, William H., St. Louis, Mo. Pneumatic tire. No. 1,031,685; July 9; Gaz. vol. 180; p. 333.
Burroughs Adding Machine Company. (See Benner, Russell E., assignor.)
Burroughs Adding Machine Company. (See Harrison, John P., assignor.)
Burroughs Adding Machine Company. (See Horton, Allen A., assignor.)
Burroughs Adding Machine Company. (See Kilpatrick, William J., assignor.)
Burroughs Adding Machine Company. (See Lundgren, Charles A., assignor.)
Burroughs Adding Machine Company. (See Mapel, Clarence O., assignor.)
Burroughs Adding Machine Company. (See Newman, Enos S., assignor.)

Alphabetical list of patentees—Continued.

Burroughs Adding Machine Company. (See Pasinski, Walter J., assignor.)
Burroughs Adding Machine Company. (See Peters, Heber C., assignor.)
Burroughs Adding Machine Company. (See Putnam, George B., assignor.)
Burroughs Adding Machine Company. (See Swalm, William E., assignor.)
Burroughs Adding Machine Company. (See Vincent, Jesse G., assignor.)
Burroughs Adding Machine Company. (See Vincent and Horton, assignors.)
Burroughs Adding Machine Company. (See Vincent and Benner, assignors.)
Burroughs Adding Machine Company. (See Walker, Charles H., assignor.)
Burroughs Adding Machine Company. (See White, Nelson, assignor.)
Burroughs, David, Oakland, Cal. Combination boiler and burner. No. 1,016,398; Feb. 6; Sp. p. 366; Gaz. vol. 175; p. 58.
Burroughs, Eben, Racine, Wis. Lifting-jack and turntable for automobiles. No. 1,045,120; Nov. 26; Gaz. vol. 184; p. 812.
Burrowes, E. T. (See Davis, George H., assignor.)
Burrowes, Edward T., Portland, Me. Emergency attachment for vehicle-wheels. No. 1,019,301; Mar. 5; Sp. p. 665; Gaz. vol. 176; p. 103.
Burrowes, Edward T., Portland, Me. Signaling device for automobiles. No. 1,032,185; July 9; Gaz. vol. 180; p. 502.
Burrows, Charles, Weehawken, N. J. Ruling-machine. No. 1,027,986; May 28; Sp. p. 6360; Gaz. vol. 178; p. 1092.
Burrows, Charles F., *et al.* (See Burrows, Clarence B., assignor.)
Burrows, Clarence B., Philadelphia, Pa., assignor of five-twelfths to C. F. Burrows, one-twelfth to M. E. Jenkins, one-twelfth to J. C. Johnson, Baltimore, Md., and two-twelfths to T. H. Pim, Merchantville, N. J. Non-refillable bottle. No. 1,032,357; July 9; Gaz. vol. 180; p. 562.
Burrows, Francis A., Columbia, S. C. Device for starting motor-cycles. No. 1,021,657; Mar. 26; Sp. p. 5619; Gaz. vol. 176; p. 1011.
Burrows, John R. (See Pierson, Benjamin F., assignor.)
Burrows, William J., assignor of one-half to W. G. Davis, De Lay, Miss. Cultivator. No. 1,013,476; Jan. 2; Sp. p. 843; Gaz. vol. 174; p. 135.
Burrows, William R., Newark, N. J. Machine for the manufacture of vacuum-receptacles. No. 1,048,456; Dec. 24; Gaz. vol. 185; p. 1016.
Burrows, William R., Newark, N. J., assignor to General Electric Company. Machine for making incandescent lamps. No. 1,013,124; Jan. 2; Sp. p. 66; Gaz. vol. 174; p. 13.
Burrows, William R., Newark, N. J., assignor to General Electric Company. Filament-support. No. 1,013,859; Jan. 9; Sp. p. 1714; Gaz. vol. 174; p. 296.
Burrows, William R., assignor to Glass Products Company, Newark, N. J. Machine for making vials and the like. No. 1,024,116; Apr. 23; Sp. p. 5040; Gaz. vol. 177; p. 890.
Burrows, William R., Newark, N. J., assignor to General Electric Company. Machine for handling incandescent-lamp bulbs. No. 1,045,943; Dec. 3; Gaz. vol. 185; p. 50.
Bursell, Charles, Guymon, Okla. Hoof-parer. No. 1,023,990; Apr. 23; Sp. p. 4763; Gaz. vol. 177; p. 845.
Bursie, Herman, Stenstorp, assignor to J. & C. G. Bolinders Mek. Verkstads Aktiebolag, Stockholm, Sweden. Governor for power-engines and the like. No. 1,044,986; Nov. 19; Gaz. vol. 184; p. 737.
Burson Bros. (See Burson, Harry H., assignor.)
Burson, George, Winamac, Ind. Spring-tire. No. 1,026,201; May 14; Sp. p. 2459; Gaz. vol. 178; p. 412.
Burson, Harry H., assignor to Burson Bros., Chicago, Ill. Studding for plaster-boards or the like. No. 1,013,738; Jan. 2; Sp. p. 1436; Gaz. vol. 174; p. 225.
Burson Manufacturing Company. (See Rolston, Walter F., assignor.)
Burson, William W., Chicago, Ill. Knitting-machine. No. 1,046,147; Dec. 3; Gaz. vol. 185; p. 120.
Burson, Wilson W., Rockford, Ill. Knitting-machine. No. 1,025,182; May 7; Sp. p. 160; Gaz. vol. 178; p. 27.
Burstall, Frederic W., Birmingham, England. Apparatus for extracting or separating suspended matter from gases. No. 1,018,235; Feb. 20; Sp. p. 4442; Gaz. vol. 175; p. 763.
Burt Machine Company. (See Wild, Frederick W., Jr., assignor.)
Burt, Robinson, assignor to The F. N. Burt Company, Limited, Buffalo, N. Y. Winding-machine. No. 1,044,485; Nov. 19; Gaz. vol. 184; p. 562.
Burt, Townsend W., Hempstead, N. Y. Faucet. No. 1,036,446; Aug. 20; Gaz. vol. 181; p. 765.
Burtman, William C. (See Olson, Bennet, assignor.)
Burtnett, Everett R., San Mateo, assignor of one-third to R. E. Bowie and one-third to T. O. Heydenfyldt, Redwood City, Cal. Internal-combustion engine. No. 1,029,419; June 11; Sp. p. 2947; Gaz. vol. 179; p. 493.
Burton, Andrew, Perkins, Okla. Fumigator for fruit products. No. 1,017,647; Feb. 20; Sp. p. 3090; Gaz. vol. 175; p. 558.
Burton, Charles, and R. Gardner, New York, N. Y. Clutch 183; p. 1219.
Burton, Charles J., Beatrice, Nebr. Booth. No. 1,035,315; Aug. 13; Gaz. vol. 181; p. 338.
Burton, Charles S., Oak Park, Ill. Tracker for automatic musical instruments. No. 1,033,871; July 30; Gaz. vol. 180; p. 1179.
Burton, Charles S., Oak Park, Ill., assignor to E. Tyden, Hastings, Mich. Extension-table. No. 1,030,459; June 25; Sp. p. 5227; Gaz. vol. 179; p. 930.
Burton, Elisha L., assignor of one-half to W. R. Davis, Thealka, Ky. Drilling-machine. No. 1,041,013; Oct. 15; Gaz. vol. 183; p. 519.
Burton, Elmer, Adrian, Mich. Animal-yoke. No. 1,027,591; May 28; Sp. p. 5487; Gaz. vol. 178; p. 959.
Burton, Frank F., East Haven, assignor to Winchester Repeating Arms Co., New Haven, Conn. Shotgun. No. 1,028,430; June 4; Sp. p. 806; Gaz. vol. 179; p. 122.
Burton, Frank F., East Haven, assignor to Winchester Repeating Arms Co., New Haven, Conn. Rear sight for firearms. No. 1,039,896; Oct. 1; Gaz. vol. 183; p. 76.
Burton, Irwin G. (See McKay, William, assignor.)
Burton, Isaac F., Philadelphia, Pa., assignor to Victor Talking Machine Company. Filing-cabinet. No. 1,016,247; Feb. 6; Sp. p. 5; Gaz. vol. 175; p. 4.
Burton, James L., Plainville, Conn., assignor of one-half to F. A. Champlin, East Long Meadow, Mass. Box. No. 1,025,899; May 7; Sp. p. 1776; Gaz. vol. 178; p. 272.
Burton, James M., Long Island City, assignor to Neptune Meter Company, New York, N. Y. Water-meter. No. 1,037,431; Sept. 3; Gaz. vol. 182; p. 86.
Burton, James M., assignor to Neptune Meter Company, New York, N. Y. Apparatus for delivering measured quantities of liquid. No. 1,043,296; Nov. 5; Gaz. vol. 184; p. 89.
Burton, John C., Hay Springs, Nebr. Printer's collapsible stationery-drying frame. No. 1,039,694; Oct. 1; Gaz. vol. 183; p. 7.
Burton, Thomas J. (See Kenner, Michael, and Burton.)
Burton, Thomas L., Elizabeth, N. J., assignor to The Westinghouse Air Brake Company, Pittsburgh, Pa. Pressure-retaining valve. No. 1,027,987; May 28; Sp. p. 6362; Gaz. vol. 178; p. 1092.
Burton, William M., Chicago, Ill. Match. No. 1,019,756; Mar. 12; Sp. p. 1627; Gaz. vol. 176; p. 284.
Burtt, Charles C., assignor to The Draper & Maynard Company, Plymouth, N. H. Ball-catcher's mitt. No. 1,031,039; July 2; Gaz. vol. 180; p. 67.
Burwell, George, Lansing, Mich. Surfacing-machine. No. 1,033,872; July 30; Gaz. vol. 180; p. 1180.
Bury, Frank, assignor of one-half to J. A. Kalina, Lyndora, Pa. Trolley. No. 1,037,123; Aug. 27; Gaz. vol. 181; p. 1025.
Bury, George J., Winnipeg, Manitoba, Canada. Machine for removing and replacing track-ties. No. 1,034,072; July 30; Gaz. vol. 180; p. 1251.
Bury, Thomas J. (See Grubb and Bury.)
Busa, Adam, Anderson, Tex. Rail-joint. No. 1,015,725; Jan. 23; Sp. p. 5806; Gaz. vol. 174; p. 990.
Busbey, Charles O., Chicago, Ill. Machine for cutting old ties into engine-wood. No. 1,041,014; Oct. 15; Gaz. vol. 183; p. 519.
Busch, Charles H., assignor of one-half to A. Zeyen, Kenosha, Wis. Sprinkler. No. 1,036,793; Aug. 27; Gaz. vol. 181; p. 914.
Busch, Reinhardt J. (See Hartmann and Busch.)
Busch-Sulzer Bros.-Diesel Engine Company. (See Schenker, Walter, assignor.)
Busch-Sulzer Brothers Diesel Engine Company. (See Bowen, Glenna E., assignor.)
Buschardt, William F., Baltimore, Md. Crate. No. 1,014,445; Jan. 9; Sp. p. 3006; Gaz. vol. 174; p. 498.
Buscher, Hermann, Langerfeld, near Barmen, Germany. Lace fabric. No. 1,024,247; Apr. 23; Sp. p. 5348; Gaz. vol. 177; p. 937.
Buscher, Hermann, Langerfeld, Germany. Braiding-machine. No. 1,034,688; Aug. 6; Gaz. vol. 181; p. 94.
Buschman, Edward L., East Orange, N. J. Bag-cleaner. No. 1,038,281; Sept. 10; Gaz. vol. 182; p. 403.
Buschman, Edward, assignor to F. S. Hunt, Milwaukee, Wis. Fountain-brush. No. 1,030,383; June 25; Sp. p. 5064; Gaz. vol. 179; p. 903.
Buschmann, Theodor E., assignor to Wanderer Werke vorm. Winklhofer & Jaenike A. G., Chemnitz, Germany. Tabulating mechanism for type-writing machines. No. 1,035,778; Aug. 13; Gaz. vol. 181; p. 495.
Busell, John N., Boston, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for concaving heels of boots and shoes. No. 1,030,567; June 25; Sp. p. 5546; Gaz. vol. 179; p. 968.
Busell, John N., Boston, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Dust-hood. No. 1,034,073; July 30; Gaz. vol. 180; p. 1252.
Buser, William E., Chillicothe, Ohio. Tufting-machine. No. 1,034,766; Aug. 6; Gaz. vol. 181; p. 122.
Bush, Augustus L., Worcester, Mass. Elevator safety-catch. No. 1,031,980; July 9; Gaz. vol. 180; p. 434.

Alphabetical list of patentees—Continued.

Bush, Charles F., Erie, Pa. Machine for marking stamps. No. 1,040,617; Oct. 8; Gaz. vol. 183; p. 351.
Bush, Charles S., Providence, R. I. Pencil-casing. No. 1,021,350; Mar. 26; Sp. p. 4971; Gaz. vol. 176; p. 907.
Bush, Justus W., Indian Wells, Ariz. Hoe. No. 1,037,590; Sept. 3; Gaz. vol. 182; p. 139.
Bush, Le Grand C., Elkhart, Ind., assignor to M. S. Park, Columbus, Ohio. Recording time-lock. No. 1,031,686; July 9; Gaz. vol. 180; p. 333.
Bush Manufacturing Company, The. (See Bush, Philip M., assignor.)
Bush, Philip M., assignor to The Bush Manufacturing Company, Hartford, Conn. Hinge. No. 1,014,372; Jan. 9; Sp. p. 2863; Gaz. vol. 174; p. 474.
Bush, Samuel P., Columbus, Ohio. Making car-wheels. No. 1,047,378; Dec. 17; Gaz. vol. 185; p. 620.
Bush, Samuel P., Columbus, Ohio. Making car-wheels. No. 1,047,379; Dec. 17; Gaz. vol. 185; p. 620.
Bush, Samuel P., Columbus, Ohio. Car-wheel. No. 1,047,380; Dec. 17; Gaz. vol. 185; p. 620.
Bush, Samuel P., assignor to The Buckeye Steel Castings Company, Columbus, Ohio. Means for securing the journal-box of a car-truck to the truck side frame. No. 1,014,565; Jan. 9; Sp. p. 3215; Gaz. vol. 174; p. 535.
Bush, Samuel P., assignor to The Buckeye Steel Castings Company, Columbus, Ohio. Car-truck. No. 1,014,807; Jan. 16; Sp. p. 3820; Gaz. vol. 174; p. 650.
Bush, Vannevar, Chelsea, Mass. Profile-tracer. No. 1,048,649; Dec. 31; Gaz. vol. 185; p. 1121.
Bush, William, Cincinnati, Ohio. Vegetable-slicer. No. 1,021,968; Apr. 2; Sp. p. 468; Gaz. vol. 177; p. 75.
Bushey, Francis A., and F. G. Harcourt, Camas, Wash. Horseshoe. No. 1,035,530; Aug. 13; Gaz. vol. 181; p. 413.
Bushnell, John B., Minneapolis, Minn. Grain-drill. No. 1,031,167; July 2; Gaz. vol. 180; p. 113.
Bushnell, Oscar P., Belleville, N. J., assignor to Monarch Machinery Co., New York, N. Y. Hydraulic-ram cylinder. No. 1,049,204; Dec. 31; Gaz. vol. 185; p. 1312.
Bushnell, Porter K., Medina, N. Y. Fence-post. No. 1,036,447; Aug. 20; Gaz. vol. 181; p. 766.
Bushnell, Roy E., Hubbard, Iowa. Kerosene-oil generator. No. 1,048,293; Dec. 24; Gaz. vol. 185; p. 961.
Bushong, Hudson K., Bushong, Ky. Plowing apparatus. No. 1,048,808; Dec. 31; Gaz. vol. 185; p. 1178.
Bushong, Mahlon J., Manassas, Va. Tractor for agricultural implements and the like. No. 1,048,940; Dec. 31; Gaz. vol. 185; p. 1223.
Buskirk, Clarence A., St. Louis, Mo. Fence-post. No. 1,048,941; Dec. 31; Gaz. vol. 185; p. 1223.
Buskirk, Frederick, New York, N. Y. Burglar-proof door-fastener. No. 1,040,505; Oct. 8; Gaz. vol. 183; p. 311.
Busky, John S., Jr., New York, N. Y. Shoe-last. No. 1,023,718; Apr. 16; Sp. p. 4133; Gaz. vol. 177; p. 725.
Buss, Wendell R., Grand Rapids, and N. Yonkman, Holland, Mich.; said Yonkman assignor to said Buss. Journal-box. No. 1,017,245; Feb. 13; Sp. p. 2267; Gaz. vol. 175; p. 385.
Bussard, William B., Huntington, Ind. Reinforced-concrete burial-vault. No. 1,018,872; Feb. 27; Sp. p. 5857; Gaz. vol. 175; p. 1011.
Busse, Otto C., Vincennes, Ind. Car-seal. No. 1,048,133; Dec. 24; Gaz. vol. 185; p. 909.
Busse, Edwin G. (See Walker and Busse.)
Busse, Edwin G., and P. B. Harrison, assignors to Chicago Railway Equipment Company, Chicago, Ill. Journal-box lid. No. 1,014,047; Jan. 9; Sp. p. 2150; Gaz. vol. 174; p. 359.
Busse, Otto C., Vincennes, Ind. Car-door seal. No. 1,045,672; Nov. 26; Gaz. vol. 184; p. 1008.
Büssing, Heinrich, Brunswick, Germany. Vehicle wheel-rim. No. 1,020,797; Mar. 19; Sp. p. 3815; Gaz. vol. 176; p. 668.
Bust, William B., San Francisco, Cal. Starching-machine. No. 1,046,261; Dec. 3; Gaz. vol. 185; p. 161.
Bustard, Paul, Frederick, Okla. Carbureter. (Reissue.) No. 13,498; Dec. 17; Gaz. vol. 185; p. 807.
Bustin, James T., Watertown, Mass. Rotary explosive-engine. No. 1,047,913; Dec. 24; Gaz. vol. 185; p. 836.
Buszek, Walter. (See Sokolowski and Buszek.)
Buszek, Walter, and T. Sokolowski, St. Louis, Mo. Watch. No. 1,016,321; Feb. 6; Sp. p. 193; Gaz. vol. 175; p. 29.
Butcher, Alfred C., Staatsburg, N. Y. Furniture-caster. No. 1,019,302; Mar. 5; Sp. p. 669; Gaz. vol. 176; p. 104.
Butcher, James W., Jr., Washington, D. C. Truck-handle clamp. No. 1,020,961; Mar. 26; Sp. p. 4165; Gaz. vol. 176; p. 775.
Butcher, Thomas H., Battle Creek, Mich. Inhaler. No. 1,048,491; Dec. 31; Gaz. vol. 185; p. 1067.
Butenschoen, George, Davenport, Iowa. Cotton-picker. No. 1,047,164; Dec. 17; Gaz. vol. 185; p. 542.
Buth, Henry F., assignor, by mesne assignments, to Kimbo Co., Chicago, Ill. Automobile glass-screen cleaner. No. 1,017,078; Feb. 13; Sp. p. 1899; Gaz. vol. 175; p. 327.
Butkus, Joseph, *et al.* (See Eytalis, Charles, assignor.)
Butler, Alfred J., Charlestown, Mass. Emergency-exit-door lock. No. 1,033,151; July 23; Gaz. vol. 180; p. 913.
Butler, Charles R., Carthage, Ind. Electric testing apparatus. No. 1,046,148; Dec. 3; Gaz. vol. 185; p. 120.
Butler, Clifford L., Chicago, Ill., assignor to American Steel Tire Company, Milwaukee, Wis. Automobile-tire. No. 1,042,392; Oct. 29; Gaz. vol. 183; p. 1044.
Butler, Clinton C., Waterloo, Iowa. Intermittent-grip device. No. 1,030,460; June 25; Sp. p. 5232; Gaz. vol. 179; p. 931.
Butler, Clinton C., Waterloo, Iowa. Friction-pulley. No. 1,036,794; Aug. 27; Gaz. vol. 181; p. 914.
Butler, Edward E. (See Lofton, Butler, and Hunter.)
Butler, Edward F., Cavendish, Vt. Automatic shearing attachment. No. 1,018,296; Feb. 20; Sp. p. 4560; Gaz. vol. 175; p. 783.
Butler, Frank W., *et al.*, trustees. (See Tainter, Willis W., assignor.)
Butler, George P., New Haven, assignor to The W. A. Ives Mfg. Co., Wallingford, Conn. Auger-bit. No. 1,025,109; Apr. 30; Sp. p. 7220; Gaz. vol. 177; p. 1265.
Butler, Harry T., Butler, Pa. Animal-trap. No. 1,016,671; Feb. 6; Sp. p. 1006; Gaz. vol. 175; p. 152.
Butler, Henry G., Wellington, Kans. Concrete-making and aggregate-handling device. No. 1,037,861; Sept. 10; Gaz. vol. 182; p. 261.
Butler, Herbert, Detroit, Mich. Holder for reaming-tools. No. 1,041,015; Oct. 15; Gaz. vol. 183; p. 520.
Butler, James, Philadelphia, Pa. Roll-centering device. No. 1,014,446; Jan. 9; Sp. p. 3007; Gaz. vol. 174; p. 498.
Butler, James A., Winthrop, assignor to F. E. Nickels, Dorchester, Mass. Locking device for voting-machines. No. 1,028,837; June 4; Sp. p. 1651; Gaz. vol. 179; p. 258.
Butler, James A., Providence, R. I., assignor to F. E. Nickels, Dorchester, Mass. Voting-machine. No. 1,028,838; June 4; Sp. p. 1652; Gaz. vol. 179; p. 258.
Butler, James L., Alliance, Ohio. Grab-bucket. No. 1,024,827; Apr. 30; Sp. p. 6651; Gaz. vol. 177; p. 1170.
Butler, John. (See Clary and Butler.)
Butler, Palace, assignor of one-half to G. R. Elliott, Indianapolis, Ind. Feed-regulator for concrete-machines. No. 1,046,437; Dec. 10; Gaz. vol. 185; p. 260.
Butler, Paul, Lowell, Mass. Braiding-carrier. No. 1,045,254; Nov. 26; Gaz. vol. 184; p. 859.
Butler, Vincent, Washington, D. C. Alarm device. No. 1,037,432; Sept. 3; Gaz. vol. 182; p. 86.
Butler, Wallace, Avard, Okla. Weather-strip. No. 1,032,273; July 9; Gaz. vol. 180; p. 533.
Butler, Walter, St. Paul, Minn. Discharging device for bins. No. 1,029,273; June 11; Sp. p. 2597; Gaz. vol. 179; p. 442.
Butler, Washington A., assignor of one-half to W. W Barton, San Francisco, Cal. Dumping apparatus. No. 1,023,719; Apr. 16; Sp. p. 4138; Gaz. vol. 177; p. 726.
Butler, William E., David City, Nebr. Telephone ringing apparatus. No. 1,016,546; Feb. 6; Sp. p. 737; Gaz. vol. 175; p. 109.
Butler, William F., Indianapolis, Ind. Can-flanging machine. No. 1,022,464; Apr. 9; Sp. p. 1505; Gaz. vol. 177; p. 270.
Butler, William J., Auckland, New Zealand. Take-up for sewing-machines. No. 1,038,282; Sept. 10; Gaz. vol 182; p. 404.
Bütow, Carl, Nuremberg, Germany. Screw-propeller. No. 1,015,540; Jan. 23; Sp. p. 5402; Gaz. vol. 174; p. 925.
Bütow, Paul E., New York, N. Y. Life-boat. No. 1,049,205; Dec. 31; Gaz. vol. 185; p. 1313.
Butsch, Alphonse, St. Lucia, British West Indies. Ignition-tube. No. 1,025,050; Apr. 30; Sp. p. 7088; Gaz. vol. 177; p. 1246.
Butsch, Alphonse, St. Lucia, British West Indies. Hydrocarbon-engine. No. 1,042,888; Oct. 29; Gaz. vol. 183; p. 1219.
Butsch, Alphonse, St. Lucia, British West Indies. Internal-combustion engine. No. 1,046,965; Dec. 10; Gaz. vol. 185; p. 443.
Butte Engineering & Electric Co. (See Hughes, Joseph, assignor.)
Butters, Thomas B., New York, N. Y. Anchor. No. 1,028,673; June 4; Sp. p. 1312; Gaz. vol. 179; p. 202.
Butterworth, Arthur B., San Francisco, Cal. Scrubbing-machine. No. 1,020,125; Mar. 12; Sp. p. 2381; Gaz. vol. 176; p. 407.
Butterworth, William C., Platteville, Wis. Gas-purifier. No. 1,021,503; Mar. 26; Sp. p. 5334; Gaz. vol. 176; p. 961.
Büttgen, Jacob, Kiel, assignor to Fried. Krupp Aktiengesellschaft Germaniawerft, Kiel-Gaarden, Germany. Pressure-resisting receptacle. No. 1,045,673; Nov. 26; Gaz. vol. 184; p. 1008.
Buttimer, Harry E., Rockford, Ill. Tobacco-pipe. No. 1,027,318; May 21; Sp. p. 4929; Gaz. vol. 178; p. 829.
Buttman, Alonzo C., Grand View, assignor of one-half to A. J. Greiner, Louisa county, Iowa. Artificial-tooth plate. No. 1,016,128; Jan. 30; Sp. p. 6661; Gaz. vol. 174; p. 1158.
Buttman, Alonzo C., and F. P. Gable, Grandview, Iowa. Recoil-neutralizer. No. 1,017,953; Feb. 20; Sp. p. 3833; Gaz. vol. 175; p. 664.

Alphabetical list of patentees—Continued.

Büttner, Alfred, Krebsmühle, near Gassen, Germany. Safety-razor. No. 1,019,303; Mar. 5; Sp. p. 671; Gaz. vol. 176; p. 104.
Buttner, Hans, Buffalo, N. Y. Igniter. No. 1,038,283; Sept. 10; Gaz. vol. 182; p. 404.
Buttner, John, Fayette City, Pa. Nut-lock. No. 1,022,657; Apr. 9; Sp. p. 1916; Gaz. vol. 177; p. 334.
Button, Arnold E., Schenectady, N. Y., assignor to General Electric Company. Controlling device for lighting-circuits. No. 1,019,422; Mar. 5; Sp. p. 970; Gaz. vol. 176; p. 141.
Buttress, Joseph A., assignor, by mesne assignments, of one-fourth to S. Herlinger, Los Angeles, Cal. Air-gage. No. 1,021,915; Apr. 2; Sp. p. 343; Gaz. vol. 177; p. 57.
Buttress, Joseph A., assignor of one-fourth to S. Herlinger, Los Angeles, Cal. Air-gage. No. 1,027,461; May 28; Sp. p. 5221; Gaz. vol. 178; p. 915.
Butts, Albert. (See Butts, Elmer and A.)
Butts, Charles W., Sag Harbor, assignor to Joseph Fahys & Co., New York, N. Y. Making Swiss bows. No. 1,038,845; Sept. 17; Gaz. vol. 182; p. 635.
Butts, Daniel G., assignor of one-half to J. D. Tschopik, New Orleans, La. Device for holding and delivering small articles, such as pins, paper-clips, &c. No. 1,041,016; Oct. 15; Gaz. vol. 183; p. 520.
Butts, Elmer and A., Peabody, Kans. Loader. No. 1,016,242; Jan. 30; Sp. p. 6878; Gaz. vol. 174; p. 1195.
Butts, Theresa I. L., Albuquerque, N. Mex. Thread cutting and holding attachment for spools. No. 1,044,014; Nov. 12; Gaz. vol. 184; p. 372.
Butts, Zehner D., Cleveland, Ohio. Resilient wheel. No. 1,034,975; Aug. 6; Gaz. vol. 181; p. 192.
Buttschau, William J., Omaha, Nebr. Seed-testing apparatus. No. 1,031,771; July 9; Gaz. vol. 180; p. 363.
Butz, Andreas, Klagenfurt, Austria-Hungary. Arrangement for the drainage of moors of great depth. No. 1,032,186; July 9; Gaz. vol. 180; p. 502.
Butz, Walter D., Norristown, Pa., assignor to The Kilbourn Knitting Machine Company, New Brunswick, N. J. Machine for running on knitted webs. No. 1,035,081; Aug. 6; Gaz. vol. 181; p. 226.
Butz, Walter H., North Plainfield, assignor to The Q M S Company, Plainfield, N. J. Fluid-operated hoist. No. 1,029,849; June 18; Sp. p. 3895; Gaz. vol. 179; p. 678.
Butz, Walter H., assignor to The Q M S Company, Plainfield, N. J. Universal valve. No. 1,036,558; Aug. 27; Gaz. vol. 181; p. 836.
Buxbaum, John H., Seattle, Wash. Pilot-house light. No. 1,016,205; Jan. 30; Sp. p. 6804; Gaz. vol. 174; p. 1182.
Buxton, Anthony. (See Turner and Buxton.)
Buxton, Benjamin C. (See Cunningham and Buxton.)
Buxton, Charles B., Ormiston, Kiribilli, near Sydney, New South Wales, Australia. Daylight photographic-plate-developing apparatus. No. 1,048,444; Dec. 24; Gaz. vol. 185; p. 1011.
Buxton, John H., Baltimore, Md. Gold-ore-grinding mill. No. 1,040,876; Oct. 8; Gaz. vol. 183; p. 438.
Buzby, Augustus C. (See Smith, Luther K., assignor.)
Buzby, Curtis S., Frankford, Pa. Mirror-support. No. 1,029,420; June 11; Sp. p. 2949; Gaz. vol. 179; p. 493.
Byam, William W., Chicago, Ill. Wheel. No. 1,013,273; Jan. 2; Sp. p. 401; Gaz. vol. 174; p. 65.
Byce, Lyman C., assignor to Petaluma Incubator Co., Petaluma, Cal. Incubator. No. 1,022,824; Apr. 9; Sp. p. 2297; Gaz. vol. 177; p. 393.
Bye, Olaf M., Princeton, Minn. Clevis. No. 1,022,300; Apr. 2; Sp. p. 1143; Gaz. vol. 177; p. 183.
Byerly, William A., Bridgewater, Va., assignor to Champion Ice Machine Company, Springfield, Ill. Treating refrigerating-machines. No. 1,025,561; May 7; Sp. p. 1025; Gaz. vol. 178; p. 158.
Byers, Firm B., New York, N. Y. Anti-rail-creeper and splice-bar. No. 1,023,991; Apr. 23; Sp. p. 4765; Gaz. vol. 177; p. 845.
Byers, Harry A., Camden, N. J. Acetylene-gas generator. No. 1,014,048; Jan. 9; Sp. p. 2152; Gaz. vol. 174; p. 359.
Byers, Jacob J., Chicago, Ill., assignor to The National Malleable Castings Company, Cleveland, Ohio. Rail-anchor. (Reissue.) No. 13,407; Apr. 23; Sp. p. 5849; Gaz. vol. 177; p. 1017.
Byers, Jacob J., Chicago, Ill., assignor to The National Malleable Castings Company, Cleveland, Ohio. Rail-anchor. No. 1,032,349; July 9; Gaz. vol. 180; p. 559.
Byers, Jacob J., Chicago, Ill., assignor to The National Malleable Castings Company, Cleveland, Ohio. Draft-rigging. No. 1,044,345; Nov. 12; Gaz. vol. 184; p. 485.
Byers, Jacob J., Chicago, Ill., assignor to The National Malleable Castings Company, Cleveland, Ohio. Draft-rigging. No. 1,044,346; Nov. 12; Gaz. vol. 184; p. 485.
Byers, James A., Centerville, Tenn. Treadle mechanism. No. 1,036,559; Aug. 27; Gaz. vol. 181; p. 857.
Byham, Charles W., Warren, Ohio. Cabinet for holding manifolding devices. No. 1,029,576; June 11; Sp. p. 3257; Gaz. vol. 179; p. 547.
Bynoe, Frederick O., Acton, assignor to Balchin, Schulz & Company, Limited, London, England. Superheater for heating purposes. No. 1,027,815; May 28; Sp. p. 5952; Gaz. vol. 178; p. 1033.
Byrd, Anthony A. A., and W. A. Lowden, London, England. Ratchet-brace. No. 1,045,509; Nov. 26; Gaz. vol. 184; p. 948.
Byrd, Atvill, Kansas City, Mo. Sanitary drinking-fountain. No. 1,019,881; Mar. 12; Sp. p. 1868; Gaz. vol. 176; p. 326.
Byrd, Britton E., Durham, N. C. Motor-vehicle. No. 1,014,808; Jan. 16; Sp. p. 3822; Gaz. vol. 174; p. 650.
Byrd, Britton E., and W. M. Fallon, Durham, N. C. Packing and storing vessel. No. 1,025,449; May 7; Sp. p. 764; Gaz. vol. 178; p. 118.
Byrd, Britton E., and W. M. Fallon, Durham, N. C. Packing and storing vessel. No. 1,045,944; Dec. 3; Gaz. vol. 185; p. 51.
Byrd, David H., Duke, N. C. Pea-dropper. No. 1,014,447; Jan. 9; Sp. p. 3010; Gaz. vol. 174; p. 499.
Byrd, Ralph C. (See Stier and Byrd.)
Byrd, Samuel C. (See Pierce and Byrd.)
Byrne, Charles, Pompton Lakes, N. J. Tire-repairing case. No. 1,040,878; Oct. 8; Gaz. vol. 183; p. 438.
Byrne, Charles, Pompton Lakes, N. J., assignor of one-half to G. W. Drew, Florida, N. Y. Tire-repairing case. No. 1,040,877; Oct. 8; Gaz. vol. 183; p. 438.
Byrne, John F., assignor to Kellogg Toasted Corn Flake Company, Battle Creek, Mich. Box or carton. No. 1,020,536; Mar. 19; Sp. p. 3243; Gaz. vol. 176; p. 580.
Byrne, Matthew, San Francisco, Cal., assignor, by mesne assignments, to International Specialty Company. Pneumatic insole and arch-support. No. 1,044,015; Nov. 12; Gaz. vol. 184; p. 372.
Byrne, Patrick J., assignor of one-third to C. V. W. Walsh, Cleveland, Ohio. Submarine illuminating apparatus. No. 1,030,052; June 18; Sp. p. 4339; Gaz. vol. 179; p. 748.
Byrnes, Clarence P., Sewickley, Pa. Apparatus for breaking in shoes. No. 1,015,291; Jan. 23; Sp. p. 4855; Gaz. vol. 174; p. 841.
Byrnes, Townsend & Brickenstein. (See Lewis, McComas, assignor.)
Byron Jackson Iron Works. (See Forward, Walter L., assignor.)
Byron Jackson Iron Works. (See Paulsmeier, Albert C., assignor.)
Byron, James A., Fort Worth, Tex. Paper-binder. No. 1,040,506; Oct. 8; Gaz. vol. 183; p. 311.
Bystrom, John, assignor to J. H. McElroy, Chicago, Ill. Locking device for automobiles. No. 1,037,203; Sept. 3; Gaz. vol. 182; p. 8.
Bystron, Josef, Teschen, Austria-Hungary, assignor to himself, and K. von Vietinghoff, Berlin, Germany. Ferric tanning process. No. 1,048,294; Dec. 24; Gaz. vol. 185; p. 961.
Bzsan, Stefan, Strawn, Tex. Tie. No. 1,037,124; Aug. 27; Gaz. vol. 181; p. 1025.
C. Beseler Co. (See Schwanhäusser, Frederick, assignor.)
C. Cowles & Co. (See Gates, Louis W., assignor.)
C. De Witt Lukens Surgical Manufacturing Company. (See Lukens, Clarence D., assignor.)
C. Mattison Machine Works. (See Shoop, Charles G., assignor.)
C. B. Cottrell & Sons Company. (See Barber, Howard M., assignor.)
C. B. Cottrell & Sons Company. (See Cottrell, Charles P., assignor.)
C. B. Cottrell & Sons Company. (See Cottrell, Edgar H., assignor.)
C. B. Cottrell & Sons Company. (See McKee, Milton A., assignor.)
C. B. Cottrell & Sons Company. (See Seymour, Ralph C., assignor.)
C. F. Splitdorf. (See Hart, William J., assignor.)
C. G. Sargent's Sons Corporation. (See Sargent, Allan C., assignor.)
C. G. Sargent's Sons Corporation. (See Sargent, Frederick G., assignor.)
C. G. Z. Inventing Company. (See Ziegler, David, assignor.)
C. H. S. Company, The. (See Simmons, Charles H., assignor.)
C. J. Hartley Co. (See Hartley, Arthur J., assignor.)
C. J. White Manufacturing Company. (See White, Charles J., assignor.)
C. M. Hall Lamp Company. (See Auklam, William F., assignor.)
C. M. Kemp Manufacturing Co. (See Kemp and Van Horn, assignors.)
C. P. Henry Novelty Company. (See Henry and Shaw, assignors.)
C. P. Henry Novelty Company. (See Shaw, Frank H., assignor.)
C. P. Power Company. (See Noyes, Edward P., assignor.)
C. P. Power Company. (See Reeve, Sidney A., assignor.)
C. S. Pierce Skiving Machine Company. (See Parmenter and Alden, assignors.) (Reissue.)
C. T. Carnahan Manufacturing Company. (See Carnahan, Charles T., assignor.)
C. T. Ham Manufacturing Company. (See Bergener, Charles, assignor.)
C. T. Ham Manufacturing Company *et al.* (See Dietz, Frederick, assignor.)

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C. T. Ham Manufacturing Company *et al.* (See McArthur, Warren, assignor.)
C. T. Patterson Company. (See Cornwall, Frederick R., assignor.)
C. W. Hunt Company. (See Hunt, William F., assignor.)
C. W. Hunt Company. (See Hunt and Murphy, assignors.)
C. W. Raymond Company, The. (See Heuss, Hermann, assignor.)
C. W. Raymond Company, The. (See Morgal, John F., assignor.)
C. W. Raymond Company, The. (See Vater, George C. F., assignor.)
Cabana, Charles, assignor to Buffalo Specialty Company, Buffalo, N. Y. Shock-absorber for vehicles. No. 1,029,664; June 18; Sp. p. 3451; Gaz. vol. 179; p. 613.
Cabasino, Thomas H., and T. W. Vrana, New York, N. Y. Self-adjusting attachment for piano-players. No. 1,023,005; Apr. 9; Sp. p. 2664; Gaz. vol. 177; p. 455.
Cabeen, Aaron T., Aledo, Ill. Railway-crossing signal. No. 1,014,117; Jan. 9; Sp. p. 2299; Gaz. vol. 174; p. 383.
Cabel, Austin F., *et al.* (See Stein, Georg V., assignor.)
Cabelinsky, Julius L., Roxbury, Mass. Wearing-apparel. No. 1,033,047; July 16; Gaz. vol. 180; p. 839.
Cable Company, The. (See Hagey, James C., assignor.)
Cable Company, The. (See Pierce, Harry, assignor.) (Reissue.)
Cable, Cornelius, Elkhart, Ind. Conveying and packing materials. No. 1,020,962; Mar. 26; Sp. p. 4167; Gaz. vol. 176; p. 775.
Cable, Daniel J., Pittsburgh, Pa. Bottle-stopper. No. 1,044,016; Nov. 12; Gaz. vol. 184; p. 372.
Cable, Daniel J., Pittsburgh, Pa. Bottle-stopper. No. 1,044,017; Nov. 12; Gaz. vol. 184; p. 373.
Cable, Daniel J., assignor of one-half to J. A. Harper, Pittsburgh, Pa. Cement sidewalk construction. No. 1,036,187; Aug. 20; Gaz. vol. 181; p. 675.
Cable Excavator Co. (See Hadsel, Aivah D., assignor.)
Cabler, Robert L., assignor of one-third to T. Hamlin and one-third to D. J. Holcombe and R. R. Patterson, Danville, Va. Picker-stick. No. 1,046,732; Dec. 10; Gaz. vol. 185; p. 366.
Cabler, Albert M., *et al.* (See Jernigan, Lee H., assignor.)
Cabot, Godfrey L. (See James, John E., assignor.)
Cabot, Sewall, Brookline, Mass. Space telegraphy. No. 1,021,132; Mar. 26; Sp. p. 4511; Gaz. vol. 176; p. 832.
Cachin, Jean, Zurich, Switzerland. Automatic regulator for impact water-wheels. No. 1,035,082; Aug. 6; Gaz. vol. 181; p. 226.
Cackley, William T., *et al.* (See Romans, John W., assignor.)
Cade, Baylus, Shelby, N. C., and A. Heldrich, Philadelphia, Pa.; said Heldrich assignor to said Cade. Line-composing and type-casting machine. No. 1,035,416; Aug. 13; Gaz. vol. 181; p. 374.
Cadenaccio, Ettore. (See Bollo and Cadenaccio.)
Cadillac Motor Car Company. (See Wingo, Richard T., assignor.)
Cadman, Addi B. (See Warner and Cadman.)
Cadman, Addi B., assignor to Warner Instrument Company, Beloit, Wis. Gear. No. 1,015,870; Jan. 30; Sp. p. 6111; Gaz. vol. 174; p. 1065.
Cadman, Addi B., assignor to Warner Instrument Company, Beloit, Wis. Speed-indicating equipment for railway-cars. No. 1,037,862; Sept. 10; Gaz. vol. 182; p. 261.
Cadman, William H. (See Niblett and Cadman.)
Cadwallader, Alfred, Bushnell, Ill. Portable ditch-dam. No. 1,027,235; May 21; Sp. p. 4761; Gaz. vol. 178; p. 801.
Cadwallader, Elisha A., Wichita, Kans., assignor of one-half to S. L. and R. M. Chastain. Beet-picker. No. 1,048,457; Dec. 24; Gaz. vol. 185; p. 1017.
Cadwallader, Elisha A., Wichita, Kans., assignor of one-half to S. L. and R. M. Chastain. Beet-topper and plow. No. 1,048,458; Dec. 24; Gaz. vol. 185; p. 1017.
Cadwell, Charles N. (See Gabel, John C., assignor.)
Cadwell, Harry W., assignor to Frederick Stearns & Company, Detroit, Mich. Container and dropper. No. 1,019,022; Mar. 5; Sp. p. 18; Gaz. vol. 176; p. 6.
Cady, Carson J., Rochester, N. Y., and J. E. Thayer, West Bridgewater, Mass., assignors to United Shoe Machinery Company, Paterson, N. J. Welt-channeling attachment for sole-sewing machines. No. 1,017,380; Feb. 13; Sp. p. 2536; Gaz. vol. 175; p. 430.
Cady, Frank P., Cleveland, Ohio. Chain-machine. No. 1,032,738; July 16; Gaz. vol. 180; p. 737.
Cafferty, Theron S., Union, N. Y., and J. F. Markle, Chanute, Kans. Ballast-dresser. No. 1,046,262; Dec. 3; Gaz. vol. 185; p. 161.
Cagley, Harry R., Bloomfield, Nebr. Mail-box. No. 1,039,695; Oct. 1; Gaz. vol. 183; p. 7.
Cahen, Hermann, assignor to Hartmann & Braun A.-G., Frankfort-on-the-Main, Germany. Push-button electric switch. No. 1,038,284; Sept. 10; Gaz. vol. 182; p. 404.
Cahill, Daniel, Belfast, Ireland. Liquid-meter. No. 1,023,621; Apr. 16; Sp. p. 3971; Gaz. vol. 177; p. 697.
Cahill, Michael F., Boston, Mass. Machine for stamping and forming sheet-metal articles. No. 1,016,547; Feb. 6; Sp. p. 740; Gaz. vol. 175; p. 109.
Cahill, Michael F., Boston, Mass. Machine for punching or shaping metallic blanks. No. 1,016,932; Feb. 13; Sp. p. 1550; Gaz. vol. 175; p. 275.
Cahill, Thomas J., Corning, Cal. Garment-pocket. No 1,045,674; Nov. 26; Gaz. vol. 184; p. 1009.
Cahn, Arthur and J., New York, N. Y. Indicator-marker for filing-cabinets. No. 1,031,321; July 2; Gaz. vol. 180; p. 167.
Cahn, Bernard, San Diego, Cal. Folding garment-form. No. 1,028,991; June 11; Sp. p. 2009; Gaz. vol. 179; p. 346.
Cahn, Charles, Baltimore, Md. Collar or cuff package. No. 1,015,000; Jan. 16; Sp. p. 4272; Gaz. vol. 174; p. 717.
Cahn, Jacob. (See Cahn, Arthur and J.)
Cahoone, George H., Providence, R. I., assignor to George H. Cahoone Company. Bracelet. No. 1,043,063; Nov. 5; Gaz. vol. 184; p. 4.
Cain, Casper J., Stockbridge, Mich. Chair. No. 1,026,074; May 14; Sp. p. 2180; Gaz. vol. 178; p. 368.
Cain, James N., Hawley, Tex. Cotton-chopper. No. 1,029,587; June 18; Sp. p. 3284; Gaz. vol. 179; p. 585.
Cain, John W., Chicago, Ill. Window-wiper. No. 1,032,377; July 16; Gaz. vol. 180; p. 613.
Cain, Joseph A. (See McWilliams, James M., assignor.)
Cain, Thomas F. (See Skinner and Cain.)
Cain, Wesley R., Port Jervis, N. Y. Fire-escape. No. 1,031,909; July 9; Gaz. vol. 180; p. 410.
Cairncross, Andrew S., St. Paul, Minn. Peat-machine. No. 1,019,946; Mar. 12; Sp. p. 2011; Gaz. vol. 176; p. 347.
Cairncross, Andrew S., St. Paul, Minn. Drip-remover for pastry-machines. No. 1,021,236; Mar. 26; Sp. p. 4741; Gaz. vol. 176; p. 866.
Cairncross, Andrew S., assignor to S. T. Wolfe, St. Paul, Minn. Peat-drying apparatus. No. 1,036,072; Aug. 20; Gaz. vol. 181; p. 633.
Cairncross, Robert L., Chicago, Ill., assignor to A. H. Handlan, Jr., St. Louis, Mo. Bail-holder for lanterns. No. 1,013,530; Jan. 2; Sp. p. 960; Gaz. vol. 174; p. 154.
Cairns, Thomas H., *et al.* (See Smith, William E., assignor.)
Cake, Horace M., Washington, D. C. Transmission-gearing. No. 1,017,954; Feb. 20; Sp. p. 3836; Gaz. vol. 175; p. 665.
Cake, Horace M., Washington, D. C. Package-tie. No. 1,020,963; Mar. 26; Sp. p. 4167; Gaz. vol. 176; p. 775.
Cake, Horace M., Washington, D. C. Change-speed gearing. No. 1,027,236; May 21; Sp. p. 4763; Gaz. vol. 178; p. 801.
Calahan, Delona L., Centralia, Wash. Centering-tool for lathes. No. 1,038,721; Sept. 17; Gaz. vol. 182; p. 591.
Calahan, Delona L., Centralia, Wash. Lathe. No. 1,045,370; Nov. 26; Gaz. vol. 184; p. 899.
Calahan, Delona L., assignor of one-half to C. A. Scales, Centralia, Wash. Column-polishing machine. No. 1,025,859; May 7; Sp. p. 1648; Gaz. vol. 178; p. 259.
Calder, Lewis, assignor of one-fourth to H. Freedman, Chicago, Ill. Ash-sifter. No. 1,041,017; Oct. 15; Gaz. vol. 183; p. 520.
Calderwood, Benjamin C., Woonsocket, R. I. Treating steel. No. 1,044,486; Nov. 19; Gaz. vol. 184; p. 562.
Calderwood, Benjamin C., Valley Falls, R. I., assignor to Price-Campbell Cotton Picker Corporation, Wilmington, Del. Machine for separating leaf and seed cotton. No. 1,030,228; June 18; Sp. p. 4696; Gaz. vol. 179; p. 808.
Calderwood, John B., Milwaukee, Wis., assignor to Allis-Chalmers Company. Automatic starter for electric motors. No. 1,017,246; Feb. 13; Sp. p. 2268; Gaz. vol. 175; p. 386.
Calderwood, Ralph. (See Lang, John W., assignor.)
Caldwell, Benjamin B., assignor of one-half to W. B. Keller, Culdesac, Idaho. Wrench. No. 1,038,846; Sept. 17; Gaz. vol. 182; p. 635.
Caldwell, David W., Batavia, Iowa. Acetylene-gas-generating apparatus. No. 1,043,927; Nov. 5; Gaz. vol. 184; p. 89.
Caldwell, Elmer A., Stratford, Tex. Film-feeding mechanism for cameras. No. 1,034,870; Aug. 6; Gaz. vol. 181; p. 158.
Caldwell, Eugene W., New York, N. Y. X-ray tube. No. 1,029,850; June 18; Sp. p. 3899; Gaz. vol. 179; p. 679.
Caldwell, Fred S., Oklahoma, Okla. Railway-tie. No. 1,041,736; Oct. 22; Gaz. vol. 183; p. 796.
Caldwell, Jackson N., Manhattan, Kans. Apparatus for making reinforced fence-posts of plastic material. No. 1,025,508; May 7; Sp. p. 895; Gaz. vol. 178; p. 140.
Caldwell, James R., assignor of one-half to L. B. Ashmun, Upper Sandusky, Ohio. Twine-cutter. No. 1,031,772; July 9; Gaz. vol. 180; p. 363.
Caldwell, John, New York, N. Y. Door-lock. No. 1,028,929; June 11; Sp. p. 1879; Gaz. vol. 179; p. 324.
Caldwell, John, assignor to O. J. Schwarzler, New York, N. Y. Door-lock. No. 1,046,438; Dec. 10; Gaz. vol. 185; p. 260.
Caldwell Manufacturing Company. (See Hodgkinson, Percy W., assignor.)
Caldwell, Mira E., Lynn, Mass. Safety-envelop. No. 1,039,252; Sept. 24; Gaz. vol. 182; p. 790.

Alphabetical list of patentees—Continued.

Caldwell, William A., Manila, Philippine Islands. Ruler attachment. No. 1,035,818; Aug. 13; Gaz. vol. 181; p. 509.
Caldwell, William L., assignor to The Berger Manufacturing Company, Canton, Ohio. Metallic furring-plate. No. 1,026,301; May 14; Sp. p. 2666; Gaz. vol. 178; p. 446.
Calef, Edwin M., Hillsboro, Oreg. Non-refillable bottle. No. 1,017,204; Feb. 13; Sp. p. 2178; Gaz. vol. 175; p. 370.
Calef, Robert S., Keene, N. H. Chair. No. 1,019,594; Mar. 5; Sp. p. 1313; Gaz. vol. 176; p. 198.
Calef, Robert S., Keene, N. H. Chair. No. 1,038,083; Sept. 10; Gaz. vol. 182; p. 337.
Caler, David R., Beaver, Pa. Window. No. 1,029,274; June 11; Sp. p. 2599; Gaz. vol. 179; p. 442.
Calhoun, John C., Midville, Ga. Wire-fence-supporting truss. No. 1,034,416; Aug. 6; Gaz. vol. 181; p. 6.
Calhoun, Joseph C., Holland, Mich. Photographic apparatus. No. 1,015,292; Jan. 23; Sp. p. 4856; Gaz. vol. 174; p. 842.
California Corrugated Culvert Company. (See Thorsby, Karl J., assignor.)
California Fruit Canners Association. (See Jongeneel, Martin, assignor.)
California Fruit Canners Association. (See René, Otto H., assignor.)
California Likfresh Company. (See Simms, Claude C., assignor.)
California Likfresh Company. (See Swett, William H. H., assignor.)
Calkins, Charles E., Las Cascadas, Canal Zone. Oil-swab holder. No. 1,033,535; July 23; Gaz. vol. 180; p. 1041.
Calkins, Fred D., *et al.* (See Henneuse, Clarence A., assignor.)
Calkins, Fred D., Welsh, La. Cooking utensil. No. 1,046,263; Dec. 3; Gaz. vol. 185; p. 162.
Calkins, James, and F. Rice, Port Huron, Mich. Intermittent-grip device. No. 1,039,023; Sept. 17; Gaz. vol. 182; p. 693.
Call, Arthur A., and W. S. Smith, Springfield, Mass. Cigar-band. No. 1,017,282; Feb. 13; Sp. p. 2335; Gaz. vol. 175; p. 398.
Call, Henry L., Girard, Kans. Propeller. No. 1,014,619; Jan. 9; Sp. p. 3346; Gaz. vol. 174; p. 555.
Callaghan, Cornelius R. (See Ryerson, George A., assignor.)
Callaghan, John J. (See Fox, Horn, and Callaghan.)
Callaghan, William T., Chicago, Ill. Filing-case. No. 1,021,090; Mar. 26; Sp. p. 4423; Gaz. vol. 176; p. 819.
Callahan, George F., Edgewood Park, Pa. Non-refillable bottle. No. 1,031,619; July 2; Gaz. vol. 180; p. 266.
Callahan, Henry, Dayton, Ohio. Eaves-trough fastener. No. 1,023,456; Apr. 16; Sp. p. 3628; Gaz. vol. 177; p. 643.
Callahan, Jacob D., Jersey Shore, Pa. Train-line hanger. No. 1,017,508; Feb. 13; Sp. p. 2822; Gaz. vol. 175; p. 476.
Callahan, Lee, Los Angeles, Cal. Skip. No. 1,033,670; July 23; Gaz. vol. 180; p. 1085.
Callan, John. (See Snell and Callan.)
Callan, John G., Lynn, Mass., assignor to General Electric Company. Governing mechanism for centrifugal apparatus. No. 1,017,509; Feb. 13; Sp. p. 2823; Gaz. vol. 175; p. 476.
Callan, John G., Nahant, Mass., assignor to General Electric Company. Combined emergency and throttle valve. No. 1,017,619; Feb. 13; Sp. p. 3021; Gaz. vol. 175; p. 511.
Callan, John G., Nahant, Mass., assignor to General Electric Company. Wire-coating machine. No. 1,031,620; July 2; Gaz. vol. 180; p. 267.
Callan, John G., Nahant, Mass., assignor to General Electric Company. Combined step and guide bearing. No. 1,041,426; Oct. 15; Gaz. vol. 183; p. 657.
Callanan, Cornellus M., Buffalo, N. Y. Cigarette-form retainer and holder. No. 1,037,863; Sept. 10; Gaz. vol. 182; p. 262.
Callanan, William A., Denver, Colo. Fastening device. No. 1,023,502; Apr. 16; Sp. p. 3722; Gaz. vol. 177; p. 658.
Callane, Waldo E., Lebanon, Ind. Journal-bearing. No. 1,036,519; Aug. 20; Gaz. vol. 181; p. 790.
Callaway, David A., assignor of one-third to L. I. Henry and one-third to H. G. De Tienne, Pueblo, Colo. Automatic hitching device. No. 1,044,136; Nov. 12; Gaz. vol. 184; p. 412.
Callaway, Edward H., Westfield, N. J., assignor to The American Clay Machinery Company, Bucyrus, Ohio. Brick-drier. No. 1,020,186; Mar. 12; Sp. p. 2520; Gaz. vol. 176; p. 428.
Callaway, George E., Jonesboro, La. Foot-power vise. No. 1,039,646; Sept. 24; Gaz. vol. 182; p. 926.
Callen, James E. (See Goerman, Micnael, assignor.)
Callender, Ward G., assignor of one-third to J. L. Young, Mansfield, Ohio. Shoe-cleaner. No. 1,014,691; Jan. 16; Sp. p. 3572; Gaz. vol. 174; p. 611.
Calleson, Amos. (See Adriance and Calleson.)
Calleson, Amos. (See Adriance and Calleson.) (Reissue.)
Callicott, John, assignor of one-half to A. T. Howes and one-half to G. Bannerman, Bradford, Ontario, Canada. Steam and hot-water furnace. No. 1,041,737; Oct. 22; Gaz. vol. 183; p. 797.
Callicott, Thomas P., Prescott, Ark. Churn. No. 1,016,474; Feb. 6; Sp. p. 542; Gaz. vol. 175; p. 83.
Callison, Spurgeon, Dexter, Iowa. Lens and mounting therefor. No. 1,046,733; Dec. 10; Gaz. vol. 185; p. 366.
Callmander, Gustave E. (See Pattersson, Erik W., assignor.)
Calongne, Francis W. (See Polizzi and Calongne.)
Caloric Company, The. (See Edson, Mark A., assignor.)
Caloric Company, The. (See Gronberg and Hodson, assignors.)
Caloric Company, The. (See Hodson, Walter D., assignor.)
Calta, James W., Platte, S. D. Vehicle-wheel. No. 1,032,877; July 16; Gaz. vol. 180; p. 783.
Calver, Claude, Cerro Gordo, Ill. Closure-retaining device. No. 1,029,047; June 11; Sp. p. 2129; Gaz. vol. 179; p. 366.
Calvert, Alan, Philadelphia, Pa. Dumb and bar bell and ring-weight. No. 1,044,018; Nov. 12; Gaz. vol. 184; p. 373.
Calvert, Frank W., Narberth, assignor to The Charles E. Hires Company, Philadelphia, Pa. Faucet. No. 1,035,856; Aug. 20; Gaz. vol. 181; p. 559.
Calvert, Oma N., Kahoka, Mo. Electric animal-exterminator. No. 1,024,060; Apr. 23; Sp. p. 4908; Gaz. vol. 177; p. 870.
Calvert, Walter R., San Antonio, Tex. Fish-trap. No. 1,033,755; July 23; Gaz. vol. 180; p. 1132.
Calvin, William A., Manhattan, Kans. Cultivator. No. 1,040,879; Oct. 8; Gaz. vol. 183; p. 439.
Camatte, Joseph E., Laurel, Miss., assignor to American Telephone and Telegraph Company. Insulating-bushing. No. 1,032,878; July 16; Gaz. vol. 180; p. 783.
Cambridge, Allan S., Keighley, England. Apparatus for generating or producing gas. No. 1,024,117; Apr. 23; Sp. p. 5055; Gaz. vol. 177; p. 891.
Camden Anchor-Rockland Machine Company. (See Lamb, Elden P., assignor.)
Camden Iron Works. (See Garland, Claude M., assignor.)
Camel Company. (See Posson, Edward, assignor.)
Cameron, De Lancey A., Geneseo, assignor to Delac Plaster Co., Mumford, N. Y. Machine for making plaster-board. No. 1,028,930; June 11; Sp. p. 1881; Gaz. vol. 179; p. 325.
Cameron, De Lancey A., Geneseo, assignor to Delac Plaster Co., Mumford, N. Y. Plaster-board. No. 1,028,931; June 11; Sp. p. 1883; Gaz. vol. 179; p. 325.
Cameron, Donald. (See Sim, George, assignor.)
Cameron, Duncan, Edinburgh, Scotland. Paper-ruling machine. No. 1,034,196; July 30; Gaz. vol. 180; p. 1293.
Cameron, Ewan, assignor to J. R. Taylor, Brooklyn, N. Y. Turn-table for trolleys. No. 1,018,407; Feb. 27; Sp. p. 4812; Gaz. vol. 175; p. 852.
Cameron, Ewan, New York, assignor to J. R. Taylor, Brooklyn, N. Y. Switch for overhead trolleys. No. 1,043,801; Nov. 12; Gaz. vol. 184; p. 297.
Cameron, Francis J., New York, N. Y. Non-substitutive bottle-lock. No. 1,043,064; Nov. 5; Gaz. vol. 184; p. 5.
Cameron, Gaylor M., Rochester, N. Y. Door-operating mechanism. No. 1,040,880; Oct. 8; Gaz. vol. 183; p. 439.
Cameron, George W., Hondo, Tex. Automatic reversing mechanism. No. 1,024,765; Apr. 30; Sp. p. 6520; Gaz. vol. 177; p. 1148.
Cameron, George W., Hondo, Tex. Rope-clamp. No. 1,024,974; Apr. 30; Sp. p. 6942; Gaz. vol. 177; p. 1221.
Cameron, George W., Hondo, Tex. Plunger for baling-presses. No. 1,048,650; Dec. 31; Gaz. vol. 185; p. 1122.
Cameron, James. (See Thompson and Cameron.)
Cameron, James A. (See Adair, Cameron, and Ainsworth.)
Cameron, James A., New York, N. Y., assignor to Cameron Picture Machine Company. Moving-picture machine. No. 1,020,383; Mar. 12; Sp. p. 2898; Gaz. vol. 176; p. 491.
Cameron, James O. (See Going, Thomas E., assignor.)
Cameron, John, Chicago, Ill. Postal mailing-card. No. 1,031,521; July 2; Gaz. vol. 180; p. 234.
Cameron, John M., Johnson City, Tenn. Steam-boiler. No. 1,018,873; Feb. 27; Sp. p. 5858; Gaz. vol. 175; p. 1011.
Cameron Picture Machine Company. (See Cameron, James A., assignor.)
Cameron, William H., assignor to The Willys-Overland Company, Toledo, Ohio. Clutch. No. 1,031,240; July 2; Gaz. vol. 180; p. 138.
Cameron, William H., assignor to The Willys-Overland Company, Toledo, Ohio. Safety-lock for relatively reciprocal members. No. 1,031,836; July 9; Gaz. vol. 180; p. 385.
Cameron, William J., Enid, Okla. Liquid-fuel burner. No. 1,034,417; Aug. 6; Gaz. vol. 181; p. 6.
Cameron, William W., assignor to La Crosse Plow Company, La Crosse, Wis. Draft-equalizer. No. 1,039,253; Sept. 24; Gaz. vol. 182; p. 790.
Camino Attilio. (See Tosco and Camino.)

Alphabetical list of patentees—Continued.

Cammack, Horace, Des Moines, Iowa. Gearing for washing-machines. No. 1,022,825; Apr. 9; Sp. p. 2300; Gaz. vol. 177; p. 393.
Camp, Christian W., Metamora, and J. E. Camp, Washington, Ill. Portable elevator. No. 1,014,448; Jan. 9; Sp. p. 3011; Gaz. vol. 174; p. 499.
Camp, Forrest W., Glenellyn, Ill. Belt-gearing. No. 1,031,106; July 2; Gaz. vol. 180; p. 91.
Camp, Joseph E. (See Camp, Christian W. and J. E.)
Camp, Peter B., Washington, Ill. Elevator and conveyer. No. 1,021,760; Apr. 2; Sp. p. 10; Gaz. vol. 177; p. 4.
Camp, Samuel G., assignor of one-half to T. D. Hill, Philadelphia, Pa. Chandelier. No. 1,031,241; July 2; Gaz. vol. 180; p. 139.
Camp, Thomas E., Milwaukee, Wis. Joint for receptacles. No. 1,042,081; Oct. 22; Gaz. vol. 183; p. 915.
Camp, Thomas L., *et al.* (See Smith, Robert H., assignor.)
Campana, Guiseppe, New York, N. Y. Railway switching apparatus. No. 1,042,197; Oct. 22; Gaz. vol. 183; p. 953.
Campau, Edward C., *et al.* (See Stuller, William L., assignor.)
Campbell, Albert D. (See White, Ira B., assignor.)
Campbell, Allan, Brandon, Manitoba, Canada. Frameless gate. No. 1,027,237; May 21; Sp. p. 4768; Gaz. vol. 178; p. 802.
Campbell, Alphonso S., Medford, Mass. Battery case or cabinet. No. 1,041,018; Oct. 15; Gaz. vol. 183; p. 520.
Campbell, Alphonso S., Medford, Mass. Hot-water bottle. No. 1,045,510; Nov. 26; Gaz. vol. 184; p. 949.
Campbell, Andrew C., Waterbury, Conn. Cotter-pin. No. 1,019,595; Mar. 5; Sp. p. 1317; Gaz. vol. 176; p. 198.
Campbell, Andrew J. (See Williams, Campbell, and Brand.)
Campbell, Angus. (See White and Campbell.)
Campbell, Archibald U., Toledo, Ohio. Combined tire and trunk holder for automobiles. No. 1,015,422; Jan. 23; Sp. p. 5155; Gaz. vol. 174; p. 886.
Campbell, Archie W., *et al.* (See Richards, John J., Jr., assignor.)
Campbell, Argyle, assignor to Enterprise Railway Equipment Company, Chicago, Ill. Dump or drop-bottom car. No. 1,040,618; Oct. 8; Gaz. vol. 183; p. 352.
Campbell Bosworth Machinery Company. (See Warren, George E., assignor.)
Campbell, Charles D., *et al.* (See Haley, Harrison Y., assignor.)
Campbell, Charles E., Portland, assignor to S. S. Keim, Newberg, Oreg. Hose-coupling. No. 1,028,187; June 4; Sp. p. 292; Gaz. vol. 179; p. 37.
Campbell, Charles H., New York, N. Y. Desiccating milk. No. 1,015,262; Jan. 16; Sp. p. 4785; Gaz. vol. 174; p. 805.
Campbell, Charles H., Chelsea, Mass. Can. No. 1,029,665; June 18; Sp. p. 3454; Gaz. vol. 179; p. 613.
Campbell, Charles H., Chelsea, Mass. Can-lock. No. 1,029,666; June 18; Sp. p. 3456; Gaz. vol. 179; p. 614.
Campbell, Charles H., Chelsea, Mass. Can-closure. No. 1,035,686; Aug. 13; Gaz. vol. 181; p. 465.
Campbell, Charles H., Chicago, Ill., assignor to American Glue Company, Boston, Mass. Drying glue or gelatin. No. 1,047,165; Dec. 17; Gaz. vol. 185; p. 542.
Campbell, Charles H., New York, N. Y., and P. T. Campbell, Hackensack, N. J. Milk product and process. No. 1,016,548; Feb. 6; Sp. p. 745; Gaz. vol. 175; p. 109.
Campbell, Charles S., Atlanta, Ga. Ice-machine. No. 1,014,449; Jan. 9; Sp. p. 3015; Gaz. vol. 174; p. 499.
Campbell, Colin, assignor to D. H. Gingrich, Grand Rapids, Mich. Chicken-feeder. No. 1,031,773; July 9; Gaz. vol. 180; p. 363.
Campbell, Donald, New York, N. Y., assignor to The White Knight Company. Toy or game. No. 1,029,588; June 18; Sp. p. 3286; Gaz. vol. 179; p. 585.
Campbell, Donald J., Muskegon, Mich. Ring-testing machine. No. 1,032,465; July 16; Gaz. vol. 180; p. 642.
Campbell, Donald J., Muskegon, Mich. Device for testing piston-rings. No. 1,036,448; Aug. 20; Gaz. vol. 181; p. 766.
Campbell, Duncan. (See Millar, John, assignor.)
Campbell, Edward B., assignor of one-half to A. J. Northcraft, St. Louis, Mo. Packing-ring. No. 1,034,582; Aug. 6; Gaz. vol. 181; p. 60.
Campbell, Emil E., Tacoma, Wash. Car attachment. No. 1,039,361; Sept. 24; Gaz. vol. 182; p. 827.
Campbell, George A. (See Mitchell and Campbell.)
Campbell, George W., El Paso, Tex., assignor of one-half to H. A. Hollister, Santa Barbara, Cal. Mechanical movement. No. 1,020,261; Mar. 12; Sp. p. 2665; Gaz. vol. 176; p. 452.
Campbell, Harold F., *et al.* (See Haley, Harrison Y., assignor.)
Campbell, Howard S., assignor of one-third to J. Zill and one-third to P. T. De Mattos, Baltimore, Md. Means for preventing the freezing of water in the circulating systems of automobile-engines. No. 1,028,808; June 4; Sp. p. 1588; Gaz. vol. 179; p. 248.
Campbell, Hugh, South Melbourne, Victoria, assignor to H. Carter, Melbourne, Australia. Spinning-top. No. 1,033,671; July 23; Gaz. vol. 180; p. 1086.
Campbell, James R., Monona, Iowa. Steel railway-tie and lock. No. 1,033,381; July 23; Gaz. vol. 180; p. 992.
Campbell, John, assignor of fifty-one one-hundredths to T. E. McDermott, Minneapolis, Minn. Oar-lock. No. 1,026,654; May 21; Sp. p. 3447; Gaz. vol. 178; p. 601.
Campbell, John A., Harmony, Ark. Water-carrier. No. 1,020,884; Mar. 19; Sp. p. 3996; Gaz. vol. 176; p. 696.
Campbell, John B., New York, N. Y. Artificial ear-drum. No. 1,045,812; Dec. 3; Gaz. vol. 185; p. 6.
Campbell, John E., New Castle, Pa. Oil-indicator for automobiles. No. 1,021,824; Apr. 2; Sp. p. 161; Gaz. vol. 177; p. 27.
Campbell, John T., Norfolk, Va. Car-door hanger. No. 1,019,129; Mar. 5; Sp. p. 276; Gaz. vol. 176; p. 42.
Campbell, Leon J., Chicago, Ill. Speed-transmission mechanism. No. 1,035,152; Aug. 13; Gaz. vol. 181; p. 280.
Campbell, Leon J., Chicago, Ill. High-speed drill. No. 1,048,035; Dec. 24; Gaz. vol. 185; p. 874.
Campbell, Leon J., assignor to J. T. Healy, trustee, Chicago, Ill. Variable-speed transmission mechanism. No. 1,023,811; Apr. 23; Sp. p. 4338; Gaz. vol. 177; p. 785.
Campbell, Leon J., assignor to J. T. Healy, trustee, Chicago, Ill. Power-transmission gearing. No. 1,034,871; Aug. 6; Gaz. vol. 181; p. 159.
Campbell, Leon J., assignor to J. T. Healy, trustee, Chicago, Ill. Clutch. No. 1,036,560; Aug. 27; Gaz. vol. 181; p. 837.
Campbell, Leon J., assignor to J. T. Healy, trustee, Chicago, Ill. Nut-lock. No. 1,042,765; Oct. 29; Gaz. vol. 183; p. 1178.
Campbell, Leon J., assignor to J. T. Healy, trustee, Chicago, Ill. High-speed drill. No. 1,044,625; Nov. 19; Gaz. vol. 184; p. 611.
Campbell, Leon J., assignor to J. T. Healy, trustee, Chicago, Ill. Clutch. No. 1,048,036; Dec. 24; Gaz. vol. 185; p. 875.
Campbell, Lyman E. (See Parker and Campbell.)
Campbell, Pearl T. (See Campbell, Charles H. and P. T.)
Campbell, Robert D., Pittsburgh, Pa. Denitrogenizing practically pure iron. No. 1,017,620; Feb. 13; Sp. p. 3024; Gaz. vol. 175; p. 511.
Campbell, Robert E., Berkeley, Cal. Dental crown and backing. No. 1,028,539; June 4; Sp. p. 1036; Gaz. vol. 179; p. 158.
Campbell, Robert E., Woodland, Cal. Washing-machine. No. 1,030,870; July 2; Gaz. vol. 180; p. 7.
Campbell, Robert H., Edmonton, England. Capsule or container for compressed or liquefied gases. No. 1,038,285; Sept. 10; Gaz. vol. 182; p. 404.
Campbell, Robert H., assignor to Aerators Limited, Edmonton, England. Container or cylinder for compressed or liquefied gas. No. 1,022,301; Apr. 2; Sp. p. 1143; Gaz. vol. 177; p. 183.
Campbell, Ronald B., county of Hants, England. Device for use in the art of boxing. No. 1,044,987; Nov. 19; Gaz. vol. 184; p. 737.
Campbell, Samuel M., Rock Island, Ill. Ice-harvesting machine. No. 1,028,992; June 11; Sp. p. 2011; Gaz. vol. 179; p. 346.
Campbell, Solomon A. (See Chapman, Everett B., assignor.)
Campbell, Sterling H., St. Louis, Mo. Journal-bearing for railway-cars. No. 1,022,400; Apr. 9; Sp. p. 1353; Gaz. vol. 177; p. 248.
Campbell, Sterling H., St. Louis, Mo. Brake-rod jaw. No. 1,025,960; May 14; Sp. p. 1905; Gaz. vol. 178; p. 328.
Campbell, Sterling H., St. Louis, Mo. Angle-cock holder for railway-cars. No. 1,031,419; July 2; Gaz. vol. 180; p. 200.
Campbell, Thomas B., Sr., Pittsburgh, Pa. Rotary glass-pot. No. 1,025,680; May 7; Sp. p. 1270; Gaz. vol. 178; p. 197.
Campbell, Thomas F., Indianapolis, Ind. Paper-tying apparatus or loose-leaf binder. No. 1,013,125; Jan. 2; Sp. p. 75; Gaz. vol. 174; p. 14.
Campbell, Thomas H. (See Freise and Campbell.)
Campbell, Victor E., Berkeley, Cal. Spring-wheel. No. 1,029,789; June 18; Sp. p. 3735; Gaz. vol. 179; p. 657.
Campbell, W. I. (See Wood and Deskins, assignors.)
Campbell, William, Brooklyn, N. Y. Rope-clamp. No. 1,042,529; Oct. 29; Gaz. vol. 183; p. 1095.
Campbell, William A., Kenton, Ohio. Cooking-cabinet. No. 1,046,734; Dec. 10; Gaz. vol. 185; p. 366.
Campbell, William A., Maricopa, assignor of one-half to J. Goldman, San Francisco, Cal. Pump for deep wells. No. 1,043,568; Nov. 5; Gaz. vol. 184; p. 188.
Campbell, William J., Honey Grove, Pa. Draft-equalizer. No. 1,027,988; May 28; Sp. p. 6363; Gaz. vol. 178; p. 1093.
Campbell, William M., *et al.* (See Wakefield, Ralph A., assignor.)
Campbell's Automatic Safety Gas Burner Co. (See Debley, Edward F., assignor.)
Campe, Mina, Seattle, Wash. Attachment for the bottoms of hand-bags. No. 1,042,530; Oct. 29; Gaz. vol. 183; p. 1095.
Campeau, Joseph, Montreal, Quebec, Canada. Photo printing apparatus. No. 1,036,073; Aug. 20; Gaz. vol. 181; p. 633.
Campion, Harry C., Jr. (See Wyatt and Campion.)
Campos, Gino, Milan, Italy. Means for protecting electrical installations from excess voltages, No. 1,017,634; Feb. 13; Sp. p. 3058; Gaz. vol. 175; p. 516.

Alphabetical list of patentees—Continued.

Campos, Gino, Milan, Italy. Means for the protection of electrical installations from excess voltages. No. 1,018,874; Feb. 27; Sp. p. 5863; Gaz. vol. 175; p. 1011.
Campos, Gino, Milan, Italy. Means for the protection of electrical installations from excess voltages. No. 1,034,197; July 30; Gaz. vol. 180; p. 1293.
Campos, Gino, Milan, Italy. Means for the protection of electrical installations from excess voltages. No. 1,034,198; July 30; Gaz. vol. 180; p. 1294.
Camus, Charles. (See Berryman and Camus.)
Canac, Joseph. (See Chirade and Canac.)
Canadian Car & Foundry Company. (See Atwood, William S., assignor.)
Canda, Ferdinand E., New York, N. Y., assignor to Chrome Steel Works, Chrome, N. J. Method of and apparatus for producing compound metal ingots. No. 1,013,860; Jan. 9; Sp. p. 1716; Gaz. vol. 174; p. 297.
Canda, Ferdinand M., New York, N. Y., assignor to Chrome Steel Works, Chrome, N. J. Crusher-plate. No. 1,015,871; Jan. 30; Sp. p. 6113; Gaz. vol. 174; p. 1066.
Candee, Robert M., Fort Dodge, Iowa. Tile-unloading machine. No. 1,024,828; Apr. 30; Sp. p. 6653; Gaz. vol. 177; p. 1171.
Candland, Arthur C., Provo, Utah. Railway-tie and fastener. No. 1,015,001; Jan. 16; Sp. p. 4273; Gaz. vol. 174; p. 718.
Candland, Arthur C., Provo City, Utah. Metallic rail-tie and fastener therefor. No. 1,024,470; Apr. 23; Sp. p. 5807; Gaz. vol. 177; p. 1009.
Candland, Arthur C., Provo, Utah. Railway-tie and fastener. No. 1,025,450; May 7; Sp. p. 766; Gaz. vol. 178; p. 119.
Candland, Arthur C., Provo, Utah. Railway-tie and fastener. No. 1,025,451; May 7; Sp. p. 767; Gaz. vol. 178; p. 119.
Candland, Arthur C., Provo, Utah. Railway-tie. No. 1,025,452; May 7; Sp. p. 770; Gaz. vol. 178; p. 120.
Candland, Arthur C., Provo, Utah. Railway-rail fastener. No. 1,025,453; May 7; Sp. p. 771; Gaz. vol. 178; p. 120.
Candland, Arthur C., Provo, Utah. Railway-tie and fastener therefor. No. 1,028,431; June 4; Sp. p. 807; Gaz. vol. 179; p. 122.
Candland, Arthur C., Provo, Utah. Railway-tie and fastener. No. 1,028,432; June 4; Sp. p. 809; Gaz. vol. 179; p. 122.
Candland, Arthur C., Provo, Utah. Railway-tie and fastener. No. 1,028,809; June 4; Sp. p. 1590; Gaz. vol. 179; p. 248.
Candland, Arthur C., Provo, Utah. Railway-tie and fastener. No. 1,031,981; July 9; Gaz. vol. 180; p. 434.
Candland, Arthur C., Provo, Utah. Automatic rail-fastener. No. 1,039,362; Sept. 24; Gaz. vol. 182; p. 827.
Candland, Arthur C., Provo, Utah. Rail-fastener. No. 1,048,651; Dec. 31; Gaz. vol. 185; p. 1122.
Candland, Arthur C., Provo, Utah. Rail-fastening device. No. 1,048,652; Dec. 31; Gaz. vol. 185; p. 1123.
Candlish, Thomas C., New York, N. Y. Safety pin-ticket. No. 1,031,522; July 2; Gaz. vol. 180; p. 234.
Candy, Thomas, Chicago, Ill. Display-sign. No. 1,035,153; Aug. 13; Gaz. vol. 181; p. 280.
Cane, Pietro, Coney Island, N. Y. Clip for measuring appliances. No. 1,033,061; July 16; Gaz. vol. 180; p. 844.
Canfield, Benjamin E., Holton, Kans. Temperature-regulating means for pianos and the like. No. 1,033,536; July 23; Gaz. vol. 180; p. 1041.
Canfield, Francis D. (See Lázaga, Ignacio, assignor.)
Canfield, Richard A. (See Brown, Harry M., assignor.)
Canfield, Richard A. (See Dorman and Manville, assignors.)
Canfield, Roger H., Mooringsport, La. Apparatus for boring wells. No. 1,024,310; Apr. 23; Sp. p. 5460; Gaz. vol. 177; p. 957.
Canfield, Roy H., Los Angeles, Cal. Float-valve. No. 1,040,141; Oct. 1; Gaz. vol. 183; p. 158.
Canger, Frank, Alsen, N. Y. Lock. No. 1,043,569; Nov. 5; Gaz. vol. 184; p. 188.
Cann, George W., Logansport, Ind. Sad-iron. No. 1,028,188; June 4; Sp. p. 294; Gaz. vol. 179; p. 38.
Cann, Thomas E., Leicester, England. Repair or reinforcement of pneumatic tires. No. 1,047,166; Dec. 17; Gaz. vol. 185; p. 542.
Cannaday, Winfield S., Florence, Ala. Delinting-machine. No. 1,035,316; Aug. 13; Gaz. vol. 181; p. 339.
Cannan, Robert, and J. A. Misland. Brooklyn, N. Y. Double-throw switch. No. 1,025,454; May 7; Sp. p. 773; Gaz. vol. 178; p. 121.
Cannan, William, Jr. (See Pass and Cannan.)
Cannell, James S. W., Shenandoah, Iowa. Cement curb and gutter mold. No. 1,034,074; July 30; Gaz. vol. 180; p. 1252.
Canning, Thomas R., Birmingham, England. Electroplating apparatus. No. 1,020,262; Mar. 12; Sp. p. 2667; Gaz. vol. 176; p. 453.
Cannock, Francis B. (See Porter, Edwin S., assignor.)
Cannon, James W. (See Coley, Robert L., assignor.)
Cannon, John F., Gould, assignor of one-half to J. A. Minton, Erick, Okla. Animal-poke. No. 1,048,653; Dec. 31; Gaz. vol. 185; p. 1123.
Cantara, George T., Biddeford, Me. Adjustable shoe-repairing jack. No. 1,025,681; May 7; Sp. p. 1273; Gaz. vol. 178; p. 198.
Cantine, Delancy S., Walnut Grove, Minn. Attachment for harvesters. No. 1,021,755; Mar. 26; Sp. p. 5820; Gaz. vol. 176; p. 1043.
Cantlin, Jacob, *et al.* (See Bittner, Arthur G., assignor.)
Canton Art Metal Company, The. (See Belding and Zinslen, assignors.)
Canton Culvert Company, The. (See Haines, Charles, assignor.)
Canton Culvert Company, The. (See Schlafly, Julius H., assignor.)
Canton Foundry and Machine Company, The. (See Slentz, Albertus O., assignor.)
Cantono, Eugenio, Rome, Italy. Automatic starting device. No. 1,049,206; Dec. 31; Gaz. vol. 185; p. 1313.
Cantor, Max, Berlin-Friedenau, assignor to Actien Gesellschaft für Anilin Fabrikation, Berlin, Germany. Red disazo dye. No. 1,042,198; Oct. 22; Gaz. vol. 183; p. 953.
Canton Steel Foundry Company, The. (See Pennock, Willard, assignor.)
Cantrall, Forest L., Ivy, Cal. Speed-indicator. No. 1,042,316; Oct. 22; Gaz. vol. 183; p. 991.
Cantrelle, William, Lockport, La. Cultivator-blade attachment. No. 1,015,136; Jan. 16; Sp. p. 4530; Gaz. vol. 174; p. 764.
Cantwell, Herbert H. (See Redifer and Cantwell.)
Canty, John W., Florence, Colo. Fluid-operated tool. No. 1,024,395; Apr. 23; Sp. p. 5601; Gaz. vol. 177; p. 983.
Canty, Joseph, Concord, N. H. Balancing mechanism for aeroplanes. No. 1,042,082; Oct. 22; Gaz. vol. 183; p. 915.
Capell, Carl F., Los Angeles, Cal. Line-winding attachment for reels. No. 1,043,397; Nov. 5; Gaz. vol. 184; p. 126.
Capen, Thomas W., assignor to Allis-Chalmers Company, Milwaukee, Wis. Gyratory crusher. No. 1,029,742; June 18; Sp. p. 3641; Gaz. vol. 179; p. 642.
Capitol Auto Lock Company. (See Cleveland, Grover E., assignor.)
Capozzi, John, San Francisco, and L. Keser, Richmond, Cal. Bed-rail fastening. No. 1,031,242; July 2; Gaz. vol. 180; p. 139.
Capper, Phillip H., and L. F. McCreary, Pittsburgh, Pa. Combination binding-post. No. 1,024,248; Apr. 23; Sp. p. 5349; Gaz. vol. 177; p. 937.
Cappio, Jildo, assignor of forty-nine one-hundredths to J. P. Spang, Boston, Mass. Non-refillable bottle. No. 1,027,319; May 21; Sp. p. 4930; Gaz. vol. 178; p. 829.
Cappricci, Achille, Leghorn, assignor to Fiat-San Giorgio (Società Anonima), Spezia, Italy. Anchor. No. 1,034,872; Aug. 6; Gaz. vol. 181; p. 159.
Capps, Charles R., *et al.* (See Hargis, Harry W., assignor.)
Capps, John H., Tolbert, Tex. Metallic tie and rail-chair. No. 1,045.255; Nov. 26; Gaz. vol. 184; p. 859.
Capra, Augusto, and L. Contri, New York, N. Y. Toy. No. 1,047,381; Dec. 17; Gaz. vol. 185; p. 621.
Caps, John E., Wilmette, Ill. Apparatus for heating water. No. 1,018,408; Feb. 27; Sp. p. 4815; Gaz. vol. 175; p. 853.
Caps, John E., Wilmette, Ill. Water-treating process. No. 1.021.761; Apr. 2; Sp. p. 12; Gaz. vol. 177; p. 5.
Caps, John E., Wilmette, Ill. Separator. No. 1,041,589; Oct. 15; Gaz. vol. 183; p. 710.
Capwell, Courtland G., Roslindale, assignor of thirty-seven one-hundredths to F. Rawitser, South Acton, and twenty-five one-hundredths to J. H. Moore, Boston, Mass. Resilient antifriction-hub for vehicle-wheels. No. 1,036,188; Aug. 20; Gaz. vol. 181; p. 675.
Carangelo, Constantin, Delta Barrage, near Cairo, Egypt. Incandescent multiple-circuit electric lamp. No. 1,029,851; June 18; Sp. p. 3901; Gaz. vol. 179; p. 679.
Carawan, John W., Mesic, N. C. Cultivating implement. No. 1,021,573; Mar. 26; Sp. p. 5478; Gaz. vol. 176; p. 984.
Caraway, James M., Longmont, Colo. Beet-topper. No. 1,047,615; Dec. 17; Gaz. vol. 185; p. 703.
Caraway, Parlin H., Wetappo, Fla. Lubricator. No. 1,040,142; Oct. 1; Gaz. vol. 183; p. 158.
Carbajal, Antonio J., Mexico, Mexico. Elaboration and preparation of pulque. No. 1,033,873; July 30; Gaz. vol. 180; p. 1180.
Carberry, James F., Worcester, Mass. Handcuff. No. 1,014,118; Jan. 9; Sp. p. 2301; Gaz. vol. 174; p. 384.
Carbondale Machine Company. (See Ely, George, assignor.)
Carbone, Tito L., Charlottenburg, Germany. Arc-lamp. No. 1,017,641; Feb. 13; Sp. p. 3071; Gaz. vol. 175; p. 517.
Carbonnelle, Henri, Uccle, Belgium. Machine for the electromechanical reproduction of drawings, writings, photographs, blocks, and the like. No. 1,024,616; Apr. 30; Sp. p. 6205; Gaz. vol. 177; p. 1095.
Carborundum Company, The. (See Allen, Thomas B., assignor.)
Carborundum Company, The. (See Higgins, Francis W., assignor.)
Carborundum Company, The. (See Tone, Frank J., assignor.)
Carborundum Company, The. (See Tone and Allen, assignors.)

Alphabetical list of patentees—Continued.

Card, Edward M., Bridgeport, Conn. Engine-starter. No. 1,038,286; Sept. 10; Gaz. vol. 182; p. 405.
Card, Frank S., Denver, Colo., assignor to Firm of Ritter & Ritter, Washington, D. C. Feeding endless-belt ore-concentrators and apparatus therefor. No. 1,033,302; July 23; Gaz. vol. 180; p. 966.
Cardell, Charles O. L., Pearl River, N. Y. Non-metallic bearing. No. 1,041,427; Oct. 15; Gaz. vol. 183; p. 658.
Cardell, George H., Reno, Nev. Drafting instrument. No. 1,015,423; Jan. 23; Sp. p. 5157; Gaz. vol. 174; p. 886.
Carden, Glenn, Phoenix, Ala. Track-lifting jack. No. 1,023,922; Apr. 23; Sp. p. 4622; Gaz. vol. 177; p. 822.
Cardinal, Delia L., Springfield, Mass. Buttonhole attachment. No. 1,025,682; May 7; Sp. p. 1274; Gaz. vol. 178; p. 198.
Cardinet, Albert D., Oakland, Cal., assignor to Cardinet Fountain Brush Company. Stencil-brush. No. 1,039,094; Sept. 24; Gaz. vol. 182; p. 732.
Cardinet Fountain Brush Company. (See Cardinet, Albert D., assignor.)
Cardon, Francois E., New York, N. Y. Finger-ring construction. No. 1,018,875; Feb. 27; Sp. p. 5865; Gaz. vol. 175; p. 1012.
Cardwell, James R., Chicago, Ill. Wallet. No. 1,020,537; Mar. 19; Sp. p. 3245; Gaz. vol. 176; p. 580.
Cardwell, James R., Chicago, Ill. Wallet. No. 1,035,945; Aug. 20; Gaz. vol. 181; p. 590.
Cardwell, James R., Chicago, Ill. Wallet. No. 1,035,946; Aug. 20; Gaz. vol. 181; p. 591.
Cardwell, James R., Chicago, Ill., assignor, by mesne assignments, to Union Draft Gear Company. Draft-gear. No. 1,034,199; July 30; Gaz. vol. 180; p. 1294.
Cardy, William A., Chelsea, Mass. Confection-box. No. 1,045,675; Nov. 26; Gaz. vol. 184; p. 1009.
Carels, Gustave, assignor to Société Anonyme Carels Freres, Ghent, Belgium, and Lewis Schneider & Co., Creuzot, France. Reversing-gear for internal-combustion motors. No. 1,019,947; Mar. 12; Sp. p. 2014; Gaz. vol. 176; p. 348.
Caretti, Peter, Connellsville, Pa. Shoemaker's tool. No. 1,016,608; Feb. 6; Sp. p. 874; Gaz. vol. 175; p. 130.
Caretti, Peter, Connellsville, Pa. Shoemaker's tool. No. 1,019,882; Mar. 12; Sp. p. 1870; Gaz. vol. 176; p. 327.
Carey, Edward R., and G. G. Condon, Denver, Colo., assignors to Central Novelty Manufacturing Company, Chicago, Ill. Shoe attachment. No. 1,034,075; July 30; Gaz. vol. 180; p. 1252.
Carey, Thomas W., Jr., New Orleans, La. Flying-machine. No. 1,035,687; Aug. 13; Gaz. vol. 181; p. 465.
Carhart, Charles M., *et al.* (See Clemmons, George W., assignor.)
Cahart, Herbert A., assignor to The Smith Premier Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 1,040,272; Oct. 8; Gaz. vol. 183; p. 231.
Carichoff, Eugene R., Schenectady, N. Y., assignor to General Electric Company. Motor-control system. No. 1,037,433; Sept. 3; Gaz. vol. 182; p. 87.
Carickhoff, William H., Philadelphia, Pa. Spring adjustment for beds. No. 1,014,374; Jan. 9; Sp. p. 2868; Gaz. vol. 174; p. 474.
Carl, Byron E., New York, N. Y. Railway-joint. No. 1,048,037; Dec. 24; Gaz. vol. 185; p. 875.
Carl, Irving, Bakersfield, Cal. Oil-well pump. No. 1,017,847; Feb. 20; Sp. p. 3575; Gaz. vol. 175; p. 627.
Carl, James, New York, N. Y. Universal clutch. No. 1,037,819; Sept. 3; Gaz. vol. 182; p. 213.
Carl, Rudolf, Schmargendorf, near Berlin, assignor to Siemens & Halske, A. G., Berlin, Germany. Means for causing mercury to circulate while electrolyzing aqueous solutions of metallic salts. No. 1,025,509; May 7; Sp. p. 896; Gaz. vol. 178; p. 140.
Carlberg, Carl S., assignor of one-half to E. Lundquist, Seattle, Wash. Radiator. No. 1,022,620; Apr. 9; Sp. p. 1833; Gaz. vol. 177; p. 321.
Carleton, Guy, Camden, Me. Automatic inking-stamp. No. 1,042,766; Oct. 29; Gaz. vol. 183; p. 1178.
Carley, William O., and C. Hollingsworth, Colfax, Wash. Subsurface-packer. No. 1,018,605; Feb. 27; Sp. p. 5305; Gaz. vol. 175; p. 921.
Carlin, Arvid F., New York, N. Y. Garment-hanger. No. 1,031,910; July 9; Gaz. vol. 180; p. 411.
Carlin Calculator Company. (See Hopkins, Francis A., assignor.)
Carlin, Charles H. (See Dirand, Louis J., assignor.)
Carlin, Samuel E., Chicago, Ill., assignor, by mesne assignments, to Underwood Typewriter Company, New York, N. Y. Calculator or register. No. 1,033,303; July 23; Gaz. vol. 180; p. 966.
Carlisle, Charles O. (See Noel, Elisha B., assignor.)
Carlsen, Andrew M., St. Paul, assignor to F. H. Heinen, Shakopee, Minn. Nutcracker. No. 1,030,805; June 25; Sp. p. 6246; Gaz. vol. 179; p. 1054.
Carlson, Albert, Preston, Wash. Hub-brake. No. 1,020,798; Mar. 19; Sp. p. 3816; Gaz. vol. 176; p. 668.
Carlson, Axel L., Center City, Minn. Tea and coffee strainer. No. 1,015,293; Jan. 23; Sp. p. 4857; Gaz. vol. 174; p. 842.
Carlson, Bert M., Walnut Grove, Minn. Ironing-board. No. 1,036,795; Aug. 27; Gaz. vol. 181; p. 915.
Carlson, Carl G., Chicago, Ill. Fire-alarm. No. 1,023,123; Apr. 16; Sp. p. 2941; Gaz. vol. 177; p. 533.
Carlson, Carl S., Amery, Wis. Releasable coupling for draft-equalizers. No. 1,019,596; Mar. 5; Sp. p. 1318; Gaz. vol. 176; p. 198.
Carlson, Charles G., Chicago, Ill. Curtain-stretcher. No. 1,039,095; Sept. 24; Gaz. vol. 182; p. 733.
Carlson, Charles J., Helena, Mont. Window-screen device. No. 1,032,110; July 9; Gaz. vol. 180; p. 476.
Carlson, Edward E., Geneva, Ill. Fruit-jar. No. 1,036,960; Aug. 27; Gaz. vol. 181; p. 969.
Carlson, Edwin R., assignor of one-third to M. Katsky, Brooklyn, N. Y. Receiver for electromagnetic waves. No. 1,027,238; May 21; Sp. p. 4770; Gaz. vol. 178; p. 802.
Carlson, Elis G., Trenton, N. J., assignor to The Carlson-Wenstrom Manufacturing Co., Inc., Dover, Del. Igniting device. No. 1,040,143; Oct. 1; Gaz. vol. 183; p. 159.
Carlson, Emil. (See Horton and Carlson.)
Carlson, Erick V., Chicago, Ill. Action for pneumatic piano-players. No. 1,029,421; June 11; Sp. p. 2951; Gaz. vol. 179; p. 494.
Carlson, Ernest. (See Williams and Olmstead, assignors.)
Carlson, Frank W., Chicago, Ill. Closet bend or connection. (Reissue.) No. 13,485; Nov. 5; Gaz. vol. 184; p. 261.
Carlson, Frank W., Chicago, Ill. Closet connection. No. 1,044,347; Nov. 12; Gaz. vol. 184; p. 485.
Carlson, Gustaf R., Buffalo, N. Y. Bed-spring. No. 1,049,048; Dec. 31; Gaz. vol. 185; p. 1261.
Carlson, Hjalmar, Duluth, Minn. Track-laying machine. No. 1,027,373; May 21; Sp. p. 5039; Gaz. vol. 178; p. 848.
Carlson, Hjalmar G., assignor to Rockwood Sprinkler Company of Massachusetts, Worcester, Mass. Apparatus for drawing and shaping sheet metal. No. 1,047,167; Dec. 17; Gaz. vol. 185; p. 542.
Carlson, John, Lund, British Columbia, Canada. Signal-wire support. No. 1,034,076; July 30; Gaz. vol. 180; p. 1253.
Carlson, John A., Erie, Pa. Burglar-alarm. No. 1,030,461; June 25; Sp. p. 5233; Gaz. vol. 179; p. 931.
Carlson, John C., and O. G. Saxton, Eaton, Colo. Surgical-needle holder. No. 1,037,864; Sept. 10; Gaz. vol. 182; p. 262.
Carlson, John E., and G. J. Nason, Bakersfield, Cal. Roller-harrow. No. 1,042,889; Oct. 29; Gaz. vol. 183; p. 1220.
Carlson, John F., Des Moines, Iowa. Combination level and plumb. No. 1,013,274; Jan. 2; Sp. p. 403; Gaz. vol. 174; p. 65.
Carlson, John W., Denver, Colo. Mortise-gage. No. 1,045,511; Nov. 26; Gaz. vol. 184; p. 949.
Carlson, Oscar B., Månsbo, Avesta, assignor to O. F. Carlson, Stockholm, Sweden. Producing explosives containing common resin. No. 1,038,847; Sept. 17; Gaz. vol. 182; p. 635.
Carlson, Oscar B., Månsbo, Avesta, assignor to O. F. Carlson, Stockholm, Sweden. Producing explosives containing nitro derivatives of common resin. No. 1,043,042; Oct. 29; Gaz. vol. 183; p. 1273.
Carlson, Oscar F. (See Carlson, Oscar B., assignor.)
Carlson, Oscar F. (See Zamore and Carlson.)
Carlson, Peet, Carlson, Tex. Cotton-chopper. No. 1,043,201; Nov. 5; Gaz. vol. 184; p. 56.
Carlson-Wenstrom Manufacturing Co., The. (See Carlson, Elis G., assignor.)
Carlsson, Olof A., Chicago, Ill. Stopper. No. 1,014,450; Jan. 9; Sp. p. 3017; Gaz. vol. 174; p. 500.
Carlstedt, Johan H., Gefle, Sweden. Gravity-lock. No. 1,028,860; June 11; Sp. p. 1710; Gaz. vol. 179; p. 300.
Carlstedt, John A., Brooklyn, N. Y., assignor to G. F. Spencer, Newark, N. J. Illuminating device. No. 1,034,077; July 30; Gaz. vol. 180; p. 1253.
Carlton, Elisha W. (See Noel, Elisha B., assignor.)
Carlton, Robert E., and S. Y. Culley, Covington, Ky. Oiling attachment for street-sprinklers. No. 1,032,879; July 16; Gaz. vol. 180; p. 783.
Carman, Oscar, Indianapolis, Ind., assignor to General Electric Company. Outlet-box. No. 1,045,256; Nov. 26; Gaz. vol. 184; p. 859.
Carmany, Charles A., Coatesville, Pa. Curtain-roller. No. 1,013,531; Jan. 2; Sp. p. 961; Gaz. vol. 174; p. 154.
Carmany, Charles A., Coatesville, Pa. Curtain-roller. No. 1,013,532; Jan. 2; Sp. p. 965; Gaz. vol. 174; p. 155.
Carmer, James R. (See Keagy and Carmer.)
Carmer, James R., Wilmington, Del. Fastener for car-doors. No. 1,037,125; Aug. 27; Gaz. vol. 181; p. 1026.
Carmichael, Hugh A., West Lorne, Ontario, Canada. Resilient tire for vehicles. No. 1,039,897; Oct. 1; Gaz. vol. 183; p. 76.
Carmichael, James W. M., Wellsburg, W. Va. Electric rat-exterminator. No. 1,034,976; Aug. 6; Gaz. vol. 181; p. 193.
Carmichael, Ray, assignor to Indianapolis Gas Engine Company, Indianapolis, Ind. Internal-combustion engine. No. 1,016,981; Feb. 13; Sp. p. 1674; Gaz. vol. 175; p. 293.
Carmiencke, Charles A., Olinghouse, Nev. Spoon attachment. No. 1,020,263; Mar. 12; Sp. p. 2668; Gaz. vol. 176; p. 453.
Carmody, Walter R. (See Hyle and Carmody.)

Alphabetical list of patentees—Continued.

Carnahan, Charles T., assignor to C. T. Carnahan Manufacturing Company, Denver, Colo. Fluid-actuated tool. No. 1,030,871; July 2; Gaz. vol. 180; p. 8.
Carnahan, Charles T., assignor to C. T. Carnahan Manufacturing Company, Denver, Colo. Fluid-actuated tool. No. 1,031,168; July 2; Gaz. vol. 180; p. 113.
Carnahan, John E. (See Maskrey, Arthur J., assignor.)
Carnahan, Robert B., Jr., Middletown, Ohio, assignor to The International Metal Products Company, Newark, N. J. Alloy. No. 1,035,947; Aug. 20; Gaz. vol. 181; p. 591.
Carnahan, Robert B., Jr., Middletown, Ohio, assignor to The International Metal Products Company, Newark, N. J. Alloy manufacture. No. 1,035,948; Aug. 20; Gaz. vol. 181; p. 591.
Carnes Artificial Limb Company. (See Carnes, William T., assignor.)
Carnes, Edward W., Chicago, Ill., assignor to American Can Company, New York, N. Y. Dough-cutter. No. 1,031,243; July 2; Gaz. vol. 180; p. 140.
Carnes, Edward W., Chicago, Ill., assignor to American Can Company, New York, N. Y. Sheet-metal receptacle. No. 1,044,742; Nov. 19; Gaz. vol. 184; p. 652.
Carnes, George M., Rochester, N. Y., assignor to United Shoe Machinery Company, Paterson, N. J. Shoe-shaping machine. No. 1,030,840; June 25; Sp. p. 6414; Gaz. vol. 179; p. 1068.
Carnes, William T., assignor to Carnes Artificial Limb Company, Kansas City, Mo. Artificial arm. No. 1,046,966; Dec. 10; Gaz. vol. 185; p. 444.
Carnes, William T., assignor to Carnes Artificial Limb Company, Kansas City, Mo. Artificial arm. No. 1,046,967; Dec. 10; Gaz. vol. 185; p. 445.
Carney, Edward, assignor to Eastern Sales Book Company, Glendale, N. Y. Manifolding-pad. No. 1,015,294; Jan. 23; Sp. p. 4858; Gaz. vol. 174; p. 842.
Carney, Frank D., Steelton, Pa. Blast-furnace-cooling device. No. 1,042,767; Oct. 29; Gaz. vol. 183; p. 1178.
Carney, George A., assignor of one-half to G. H. Littlefield, Boston, Mass. Handcuff. No. 1,017,955; Feb. 20; Sp. p. 3838; Gaz. vol. 175; p. 665.
Carney, Thomas, deceased; O. F. Davisson, Dayton, Ohio, administrator. Cash-register. No. 1,016,066; Jan. 30; Sp. p. 6540; Gaz. vol. 174; p. 1137.
Carney, Thomas, deceased; O. F. Davisson, administrator, assignor to The National Cash Register Company, Dayton, Ohio. Cash-register. No. 1,018,486; Feb. 27; Sp. p. 4995; Gaz. vol. 175; p. 879.
Carney, William J., Norwich, Conn. Grinding and polishing machine. No. 1,045,945; Dec. 3; Gaz. vol. 185; p. 51.
Carney, William L. (See Winder, Samuel E., assignor.)
Carnine, Arba I., Fullerton, Cal. Vehicle-brake. No. 1,015,872; Jan. 30; Sp. p. 6114; Gaz. vol. 174; p. 1066.
Carnochan, John W., assignor of one-half to H. Walters and one-half to F. H. Damon, Rochester, N. Y. Fruit-peeling machine. No. 1,040,507; Oct. 8; Gaz. vol. 183; p. 311.
Caron, Jacob, Nampa, Idaho. Railway-tie. No. 1,028,674; June 4; Sp. p. 1313; Gaz. vol. 179; p. 202.
Caron, Napoleon, Nashua, N. H., assignor of one-half to N. Rodier, Lowell, Mass. Eyeglasses. No. 1,039,024; Sept. 17; Gaz. vol. 182; p. 693.
Caroselli, Arnaldo, assignor to Firm of Chemische Fabrik Flörsheim Dr. H. Noerdlinger, Flörsheim-on-the-Main, Germany. Manufacturing caoutchouc-like products. No. 1,031,837; July 9; Gaz. vol. 180; p. 386.
Carp, Arthur, St. Louis, Mo. Wrench. No. 1,042,531; Oct. 29; Gaz. vol. 183; p. 1095.
Carpenter, Adam, Tacoma, Wash. Regulator for liquid-boilers. No. 1,029,975; June 18; Sp. p. 4162; Gaz. vol. 179; p. 721.
Carpenter, Adam, Elmira, N. Y. Combined cooker and heater. No. 1,043,667; Nov. 5; Gaz. vol. 184; p. 220.
Carpenter, Benjamin F., Summit, N. J. Roll-top balanced hood. No. 1,038,287; Sept. 10; Gaz. vol. 182; p. 405.
Carpenter, Charles R. (See Gorton and Carpenter.)
Carpenter, Charles R. (See Gorton and Carpenter.) (Reissue.)
Carpenter, Charles R., Racine, Wis. Grinding-machine. No. 1,022,224; Apr. 2; Sp. p. 995; Gaz. vol. 177; p. 160.
Carpenter, Charles U., New York, N. Y., assignor to Fire-Proof Furniture and Construction Company, Hamilton, Ohio. Roller suspension for drawers. No. 1,042,646; Oct. 29; Gaz. vol. 183; p. 1136.
Carpenter, Columbus C., assignor of one-half to J. P. Moe, Milwaukee, Wis. Scaffolding attachment for roofs of buildings. No. 1,018,031; Feb. 20; Sp. p. 3997; Gaz. vol. 175; p. 692.
Carpenter, Edson L., and C. O. Ryan, Eldora, Iowa. Mail-box. No. 1,033,874; July 30; Gaz. vol. 180; p. 1180.
Carpenter, Edward F., Millersport, Ohio. Wall-supported incubator. No. 1,016,982; Feb. 13; Sp. p. 1679; Gaz. vol. 175; p. 293.
Carpenter, Eugene H., *et al.* (See Jernigan, Lee H., assignor.)
Carpenter, Everett R., *et al.* (See Normand, Ernest A., assignor.)
Carpenter, Flora C., administratrix. (See Carpenter, George T.) (Reissue.)
Carpenter, Floyd S. (See Carpenter, Frank C. and F. S.)
Carpenter, Frank C. and F. S., Louisville, Ky. Aeroplane. No. 1,016,609; Feb. 6; Sp. p. 875; Gaz. vol. 175; p. 130.
Carpenter, George H., assignor to Standard Roller Bearing Company, Philadelphia, Pa. Roller-cage. No. 1,018,694; Feb. 27; Sp. p. 5479; Gaz. vol. 175; p. 950.
Carpenter, George T., deceased; F. C. Carpenter, executrix, assignor to F. H. Skinner, Chicago, Ill. Dental tool for removing crown-pins. (Reissue.) No. 13,361; Jan. 16; Sp. p. 4817; Gaz. vol. 174; p. 811.
Carpenter, Harvey J., Johnstown, Pa. Automatic damper-regulator. No. 1,044,988; Nov. 19; Gaz. vol. 184; p. 738.
Carpenter, Henry A. (See Rodman, Hibbard, and Carpenter.)
Carpenter, Israel J., Marlboro, Mass. Wheel-rim. No. 1,020,478; Mar. 19; Sp. p. 3109; Gaz. vol. 176; p. 561.
Carpenter, James M., Pawtucket, R. I. Threading-tool. No. 1,016,206; Jan. 30; Sp. p. 6805; Gaz. vol. 174; p. 1182.
Carpenter, John C., Houston Heights, Tex. Fluid-clutch. No. 1,031,621; July 2; Gaz. vol. 180; p. 267.
Carpenter, John C., Houston Heights, Tex. Fluid-clutch. No. 1,033,048; July 16; Gaz. vol. 180; p. 839.
Carpenter, John C., Houston Heights, Tex. Speed-regulating mechanism. No. 1,038,848; Sept. 17; Gaz. vol. 182; p. 635.
Carpenter, John H., and E. O. Hoffman, Columbus, Ohio; said Hoffman assignor to said Carpenter. Baking-machine. No. 1,014,375; Jan. 9; Sp. p. 2869; Gaz. vol. 174; p. 475.
Carpenter, Leck, Stratford, Okla. Horseshoe clipping and bending machine. No. 1,014,451; Jan. 9; Sp. p. 3019; Gaz. vol. 174; p. 500.
Carpenter, Levi, Jr., *et al.* (See Curtis, Oliver W., assignor.)
Carpenter, Lewis A., and R. Middleton, Revere, Mass. Pipe-hanger. No. 1,025,243; May 7; Sp. p. 296; Gaz. vol. 178; p. 48.
Carpenter, Paul, Chicago, Ill. Alarm-valve. No. 1,023,104; Apr. 9; Sp. p. 2871; Gaz. vol. 177; p. 489.
Carpenter, Ralph G. (See Goehst and Carpenter.)
Carpenter, Varnum F., Cleveland, Ohio. Power-driven machine for aerial navigation. No. 1,022,302; Apr. 2; Sp. p. 1145; Gaz. vol. 177; p. 184.
Carpenter, William D., and J. A. Humphrey, Lima, Ohio. Railway tie, chair, and fish-plates. No. 1,021,658; Mar. 26; Sp. p. 5620; Gaz. vol. 176; p. 1011.
Carpentier, Jules. (See Joly, Louis, assignor.)
Carr & Company. (See Carr, William T., assignor.) (Reissue.)
Carr, Edward H., *et al.* (See White, Charles B., assignor.)
Carr Fastener Company. (See Carr, Fred S., assignor.)
Carr, Francis J. (See Martin, William J., assignor.)
Carr, Fred S., Brookline, assignor to Carr Fastener Company, Boston, Mass. Stud-and-socket fastener. No. 1,038,288; Sept. 10; Gaz. vol. 182; p. 406.
Carr, Fred S., Brookline, assignor to Carr Fastener Company, Boston, Mass. Fastener for rugs, carpets, &c. No. 1,041,238; Oct. 15; Gaz. vol. 183; p. 594.
Carr, Fred S., Brookline, assignor to Carr Fastener Co., Boston, Mass. Stud-and-socket fastener. No. 1,048,654; Dec. 31; Gaz. vol. 185; p. 1123.
Carr, George, Paterson, N. J. Artificial tooth-crown and backing. No. 1,035,688; Aug. 13; Gaz. vol. 181; p. 465.
Carr, Granville M., *et al.* (See Hestand and Dayton, assignors.)
Carr, James, *et al.* (See White, Charles B., assignor.)
Carr, James, assignor, by mesne assignments, to The Henry G. Thompson & Son Company, New Haven, Conn. Tool. No. 1,016,207; Jan. 30; Sp. p. 6808; Gaz. vol. 174; p. 1183.
Carr, James, Syracuse, N. Y., assignor to The Henry G. Thompson & Son Company, New Haven, Conn. Tool-holder. No. 1,033,875; July 30; Gaz. vol. 180; p. 1181.
Carr, James, Syracuse, N. Y., assignor to The Henry G. Thompson & Son Company, New Haven, Conn. Tool-holder for planers and other machine-tools. No. 1,045,512; Nov. 26; Gaz. vol. 184; p. 950.
Carr, James, Syracuse, N. Y., assignor to The Henry G. Thompson & Son Company, New Haven, Conn. Tool-holder. No. 1,045,813; Dec. 3; Gaz. vol. 185; p. 6.
Carr, John B. (See Swindell, Walter B., assignor.)
Carr, John L., *et al.* (See White, Charles B., assignor.)
Carr, Joseph, assignor of one-half to A. G. Pollard, Lamont, Okla. Egg-tester. No. 1,016,610; Feb. 6; Sp. p. 877; Gaz. vol. 175; p. 131.
Carr, Joseph P., Wappingers Falls, N. Y. Collar-clasping collar-button. No. 1,032,588; July 16; Gaz. vol. 180; p. 683.
Carr Manufacturing Company. (See Davis, Archibald C., assignor.)
Carr, Robert S., Oxford, Ohio. Hydraulic motor. No. 1,031,911; July 9; Gaz. vol. 180; p. 411.
Carr, Selby C., Muskogee, Okla. Closure for jars and the like. No. 1,033,382; July 23; Gaz. vol. 180; p. 992.
Carr, Selby C., Muskogee, Okla. Safety-stop for steam-engines. No. 1,041,239; Oct. 15; Gaz. vol. 183; p. 594.

Alphabetical list of patentees—Continued.

Carr & Sons, James. (See White, Charles B., assignor.)
Carr, Thomas, Rook, Pa. Tie and rail-fastener. No. 1,036,449; Aug. 20; Gaz. vol. 181; p. 766.
Carr, Uhel U. (See Watkins, Thomas, assignor.)
Carr, William T., assignor of one-half to Carr & Company, Limited, Carlisle, England. Machine for the manufacture of filled biscuits and the like. (Reissue.) No. 13,367; Feb. 13; Sp. p. 3073; Gaz. vol. 175; p. 518.
Carrabine, Oscar, New York, N. Y. Bathing-suit. No. 1,024,181; Apr. 23; Sp. p. 5190; Gaz. vol. 177; p. 912.
Carragher, Henry N., Fall River, Mass. Locking device for detachably securing a rim to the felly of a wheel. No. 1,020,126; Mar. 12; Sp. p. 2382; Gaz. vol. 176; p. 407.
Carré, Louis, London, England. Treatment of straw, dried grasses, or the like for the production of articles of commerce. No. 1,014,566; Jan. 9; Sp. p. 3217; Gaz. vol. 174; p. 536.
Carresse, Raoul, New Orleans, La. Roller-bearing for journal-boxes. No. 1,047,914; Dec. 24; Gaz. vol. 185; p. 837.
Carrick, Charles P., Flint, Mich. Spring-wheel. No. 1,025,051; Apr. 30; Sp. p. 7090; Gaz. vol. 177; p. 1246.
Carrier, Melissa, Bridgeport, Nebr. Oil-burner. No. 1,019,130; Mar. 5; Sp. p. 277; Gaz. vol. 176; p. 43.
Carrier, Willis H. (See Comfort and Carrier.)
Carriere, Albini, Butte City, Cal. Wire-tightener. No. 1,034,078; July 30; Gaz. vol. 180; p. 1253.
Carrigan, Daniel H., Portland, Me. Harness-pad. No. 1,013,586; Jan. 2; Sp. p. 1065; Gaz. vol. 174; p. 172.
Carriker, John W., Harrisburg, N. C. Loading and unloading apparatus. No. 1,023,006; Apr. 9; Sp. p. 2627; Gaz. vol. 177; p. 455.
Carringer, Volney A. (See Kunkey, Samuel D., assignor.)
Carrington, Charles P. (See Susemihl and Carrington.)
Carrington, Charles P. (See Susemihl and Carrington.) (Reissue.)
Carrington, Louis L. (See Dodge, Edward W., assignor.)
Carroll, Charles J. (See Assheton, William, assignor.)
Carroll, Edward, Kirksville, Mo. Drain-conduit or culvert. No. 1,014,636; Jan. 16; Sp. p. 3449; Gaz. vol. 174; p. 592.
Carroll, Elbert H., assignor to Morgan Construction Company, Worcester, Mass. Wire-drawing machine. No. 1,047,168; Dec. 17; Gaz. vol. 185; p. 543.
Carroll, Frank C., Cleveland, Ohio. Apparatus for treating soil. No. 1,038,084; Sept. 10; Gaz. vol. 182; p. 338.
Carroll, George J. (See Merkel and Carroll.)
Carroll, George P. (See Roehrich, Frank N., assignor.)
Carroll, George P., Bridgeport, Conn. Pressure and electric condenser-valve. No. 1,045,121; Nov. 26; Gaz. vol. 184; p. 812.
Carroll, Harry L., Gassaway, W. Va. Wire-clamp. No. 1,042,199; Oct. 22; Gaz. vol. 183; p. 953.
Carroll, James R., Bollinger, Tex. Freezer. No. 1,015,002; Jan. 16; Sp. p. 4275; Gaz. vol. 174; p. 718.
Carroll, John H., Montreal, Quebec, Canada. Necktie. No. 1,023,196; Apr. 16; Sp. p. 3125; Gaz. vol. 177; p. 559.
Carroll, John N. (See Smothers and Carroll.)
Carroll, Joseph F., *et al.* (See Gay, Herman T., assignor.)
Carroll, Louis W., Riverside, Ill. Telephone-receiver. No. 1,034,200; July 30; Gaz. vol. 180; p. 1294.
Carroll, Louis W., Anamosa, Iowa. Selective signal. No. 1,036,796; Aug. 27; Gaz. vol. 181; p. 915.
Carroll, Philip F., Joliet, Ill. Oven. No. 1,029,589; June 18; Sp. p. 3288; Gaz. vol. 179; p. 586.
Carroll, Philip F., Joliet, Ill. Long-loaf-molding machine. No. 1,037,820; Sept. 3; Gaz. vol. 182; p. 214.
Carroll, Ralph, Simmonsville, R. I. Ventilating apparatus. No. 1,039,025; Sept. 17; Gaz. vol. 182; p. 693.
Carroll, Ralph, Simmonsville, R. I. Automobile sled. No. 1,045,771; Nov. 26; Gaz. vol. 184; p. 1041.
Carroll, Thomas, assignor, by mesne assignments, to The National Cash Register Company, Dayton, Ohio. Cash-register. No. 1,017,079; Feb. 13; Sp. p. 1902; Gaz. vol. 175; p. 328.
Carroll, Thomas, assignor, by mesne assignments, to The National Cash Register Company, Dayton, Ohio. Cash-register. No. 1,046,054; Dec. 3; Gaz. vol. 185; p. 88.
Carroll, Thomas F., Mount Carmel, Pa. Rock-drill. No. 1,015,780; Jan. 30; Sp. p. 5924; Gaz. vol. 174; p. 1036.
Carroll, William, West Silvertown, assignor of one-half to G. M. Boddy, London, England. Marine life-saving jacket. No. 1,028,433; June 4; Sp. p. 810; Gaz. vol. 179; p. 123.
Carroll, William H., Jersey City, N. J. Railway-car vestibule door and trap. No. 1,044,487; Nov. 19; Gaz. vol. 184; p. 563.
Carroll, William J., assignor to Sargent & Company, New Haven, Conn. Lock. No. 1,032,530; July 16; Gaz. vol. 180; p. 663.
Carroll, William N., and J. C. Griffin, Nashville, Tenn. Spring-wheel. No. 1,031,687; July 9; Gaz. vol. 180; p. 334.
Carruthers, Willis P., Oberlin, Ohio. Base-ball scoring device. No. 1,038,289; Sept. 10; Gaz. vol. 182; p. 406.

Carsalade du Pont, Paul de, assignor of one-half to G. Escarras, Paris, France. Syllable-writing machine. No. 1,024,679; Apr. 30; Sp. p. 6342; Gaz. vol. 177; p. 1118.
Carscadin, Charles A., assignor of one-half to G. A. Woodman, Chicago, Ill. Weather-shield. No. 1,028,861; June 11; Sp. p. 1711; Gaz. vol. 179; p. 300.
Carson, Andrew C., *et al.* (See Bailey, Seth G., assignor.)
Carson, Angus, Tionesta, Pa. Sewing-machine needle. No. 1,017,247; Feb. 13; Sp. p. 2271; Gaz. vol. 175; p. 386.
Carson, Charles, and E. B. Timmerman, Chicago, Ill. Safety device for elevators. No. 1,041,019; Oct. 15; Gaz. vol. 183; p. 521.
Carson, Charles B., Chicago, Ill., assignor to The Adams & Westlake Company. Lantern. No. 1,031,420; July 2; Gaz. vol. 180; p. 200.
Carson, Charles B., Chicago, Ill., assignor to The Adams & Westlake Company. Lantern. No. 1,031,421; July 2; Gaz. vol. 180; p. 201.
Carson, Clarence, assignor to The National Cash Register Company, Dayton, Ohio. Fuse-attachment plug. No. 1,043,802; Nov. 12; Gaz. vol. 184; p. 297.
Carson-Hubbard Mill Company. (See Carson and Hubbard, assignors.)
Carson, John F. (See Smith, Orrice R., assignor.)
Carson, Robert N., San Francisco, Cal. Glove. No. 1,047,496; Dec. 17; Gaz. vol. 185; p. 661.
Carson, Wilfred P., and J. J. Hubbard, assignors to Carson-Hubbard Mill Company, Taylorsville, N. C. Grinding-mill. No. 1,028,839; June 4; Sp. p. 1654; Gaz. vol. 179; p. 258.
Carson, William D. (See Grampp and Carson.)
Carson, William H., *et al.* (See Woodhull, Frederick W., assignor.)
Carstarphen, William P., Jr., Denver, Colo. Switch and cut-out box. No. 1,018,297; Feb. 20; Sp. p. 4563; Gaz. vol. 175; p. 783.
Carstens, Charles, assignor of one-half to H. Fleming, Davenport, Iowa. Hoisting apparatus. No. 1,041,020; Oct. 15; Gaz. vol. 183; p. 521.
Carstens, Julius J., Tuleta, Tex. Tree and shrub protector. No. 1,021,447; Mar. 26; Sp. p. 5204; Gaz. vol. 176; p. 941.
Carswell, Firman L. (See Putney and Carswell.)
Cartault, Paul J., Paris, France. Apparatus for changing the temperature of liquids. No. 1,024,436; Apr. 23; Sp. p. 5719; Gaz. vol. 177; p. 996.
Carter, Chapel S. (See Munger and Carter.)
Carter, Charles C. (See De Witt, Charles, assignor.)
Carter, Charles L., Marion, Ind., assignor to American Sign Company, Kalamazoo, Mich. Sign. No. 1,044,442; Nov. 12; Gaz. vol. 184; p. 517.
Carter, Charles P., Kingston, N. Y., assignor, by mesne assignments, to Thomas A. Edison, Incorporated, West Orange, N. J. Talking-machine. No. 1,047,497; Dec. 17; Gaz. vol. 185; p. 662.
Carter, Clarence W., Minneapolis, Minn. Bean-sorter. No. 1,034,201; July 30; Gaz. vol. 180; p. 1294.
Carter-Crume Company, The. (See Bengough, James, assignor.)
Carter-Crume Company, The. (See Bottle, Edward K., assignor.)
Carter-Crume Company, The. (See Mowat, Alexander G., assignor.)
Carter, Edward G., New York, N. Y. Game apparatus. No. 1,040,144; Oct. 1; Gaz. vol. 183; p. 159.
Carter, Edwin E., assignor to The Day-Ward Company, Warren, Ohio. Lavatory. No. 1,028,327; June 4; Sp. p. 572; Gaz. vol. 179; p. 85.
Carter, Elliott C. (See Hart, Henry A., assignor.)
Carter, Francis A., Chicago, Ill. Dental process. No. 1,036,561; Aug. 27; Gaz. vol. 181; p. 838.
Carter, Francis A., Chicago, Ill. Artificial teeth. No. 1,036,562; Aug. 27; Gaz. vol. 181; p. 838.
Carter, Francis A., Chicago, Ill. Dental casting-machine. No. 1,036,563; Aug. 27; Gaz. vol. 181; p. 838.
Carter, George B., Detroit, Mich., assignor to The H. Wetter Manufacturing Company, Memphis, Tenn. Gas-stove. No. 1,038,849; Sept. 17; Gaz. vol. 182; p. 636.
Carter, George H., Richmond Hill, N. Y. Fountain-pen. No. 1,030,502; June 25; Sp. p. 5342; Gaz. vol. 179; p. 945.
Carter, George W., Norway, Me., assignor to United Shoe Machinery Company, Paterson, N. J. Channeling-tool. No. 1,015,377; Jan. 23; Sp. p. 5054; Gaz. vol. 174; p. 871.
Carter, Henry. (See Campbell, Hugh, assignor.)
Carter, Henry F., assignor of one-half to C. N. Pate, Fort Smith, Ark. Brace for cotton-scraper standards. No. 1,016,814; Feb. 6; Sp. p. 1294; Gaz. vol. 175; p. 198.
Carter, James F., Wadley, Ala. Tire-setting tool. No. 1,017,956; Feb. 20; Sp. p. 3839; Gaz. vol. 175; p. 665.
Carter, James H., Chicago, Ill. Folding carton. No. 1,039,026; Sept. 17; Gaz. vol. 182; p. 693.
Carter, James M., Pendleton, Oreg. Gold-washing machine. No. 1,037,434; Sept. 3; Gaz. vol. 182; p. 87.
Carter, James R., West Newton, Mass. Protector for milk-bottles. No. 1,024,879; Apr. 30; Sp. p. 6754; Gaz. vol. 177; p. 1188.
Carter, John W., Jr. (See English, Henry C., assignor.)

Alphabetical list of patentees—Continued.

Carter, Joseph E., Fargo, N. D. Veterinary instrument. No. 1,031,244; July 2; Gaz. vol. 180; p. 140.
Carter, Lemuel A., J. C. Jones, and J. C. Spotts, New Orleans, La. Heating or cooling apparatus. No. 1,024,554; Apr. 30; Sp. p. 6068; Gaz. vol. 177; p. 1074.
Carter, McIon J. D., London, England. Envelop-feeding device for type-writers. No. 1,017,134; Feb. 13; Sp. p. 2018; Gaz. vol. 175; p. 346.
Carter, Oliver C. (See Walthall and Carter.)
Carter, Percy H., H. H. Shackleton, and T. E. Grafton, Rome, Ga. Making aluminum sulfate. No. 1,037,591; Sept. 3; Gaz. vol. 182; p. 139.
Carter, Walter T., Los Angeles, Cal. Coaster-brake. No. 1,026,972; May 21; Sp. p. 4171; Gaz. vol. 178; p. 712.
Carter, William C., St. Louis, Mo. Float-tank mechanism for carbureters. No. 1,019,948; Mar. 12; Sp. p. 2016; Gaz. vol. 176; p. 348.
Carter, William C., St. Louis, Mo. Carbureter. No. 1,040,619; Oct. 8; Gaz. vol. 183; p. 352.
Carter, William C., assignor of one-half to C. O. Baxter, St. Louis, Mo. Internal-combustion engine. No. 1,040,508; Oct. 8; Gaz. vol. 183; p. 312.
Carter, William D., Quincy, Ill. Telephone-booth. No. 1,043,043; Oct. 29; Gaz. vol. 183; p. 1273.
Carter, William D., Quincy, Ill. Telephone-booth. No. 1,043,055; Oct. 29; Gaz. vol. 183; p. 1277.
Carter, William H., Needham Heights, assignor to Springfield Knitting Co., Springfield, Mass. Border-forming mechanism for fabrics. No. 1,020,944; Mar. 19; Sp. p. 4107; Gaz. vol. 176; p. 717.
Carter, William L., assignor to Waterloo Register Company, Waterloo, Iowa. Nursery-chair. No. 1,039,647; Sept. 24; Gaz. vol. 182; p. 927.
Carter, Willis M., assignor to American Lithographic Company, New York, N. Y. Collapsible display device. No. 1,041,738; Oct. 22; Gaz. vol. 183; p. 797.
Carteron, Charles P. J., Sevran-Livry, France. Submarine mine. No. 1,039,254; Sept. 24; Gaz. vol. 182; p. 790.
Cartwright, Richard, Salem, Oreg. Truss. No. 1,035,417; Aug. 13; Gaz. vol. 181; p. 375.
Cartwright, William J., New York, N. Y. Roller-bearing. No. 1,015,273; Jan. 16; Sp. p. 4804; Gaz. vol. 174; p. 808.
Cartzdafner, Roy E., assignor to The Kilbourne & Jacobs Manufacturing Company, Columbus, Ohio. Dump-car lock. No. 1,034,418; Aug. 6; Gaz. vol. 181; p. 6.
Caruso, Salvatore, Providence, R. I. Nozzle for oil and other cans. No. 1,025,052; Apr. 30; Sp. p. 7092; Gaz. vol. 177; p. 1247.
Caruso, Santi, Ardmore, Pa. Coin-operated hat, coat, and umbrella rack. No. 1,025,860; May 7; Sp. p. 1651; Gaz. vol. 178; p. 259.
Carver, Edwin O., Carters, Fla. Orchard-heater. No. 1,027,989; May 28; Sp. p. 6364; Gaz. vol. 178; p. 1093.
Carver, George W., East Orange, N. J. Safety pocket device. No. 1,031,912; July 9; Gaz. vol. 180; p. 411.
Carvin, Harrison T. (See Olsen, Ole, assignor.)
Cary, Albert A., New York, N. Y. Steam-generator. No. 1,034,079; July 30; Gaz. vol. 180; p. 1253.
Cary Manufacturing Company. (See Miller, George C. D., assignor.)
Cary, Spencer C., New York, N. Y. Metal fabric. No. 1,045,122; Nov. 26; Gaz. vol. 184; p. 812.
Caryl, De Mont, Wiscoy, N. Y. Chain pipe-wrench. No. 1,015,667; Jan. 23; Sp. p. 5681; Gaz. vol. 174; p. 971.
Casad, Roland C., Los Angeles, Cal. Gas-generating oil-burner. No. 1,038,290; Sept. 10; Gaz. vol. 182; p. 406.
Casagrande, Annibal, Rochester, N. Y. Stand for talking-machines. No. 1,017,848; Feb. 20; Sp. p. 3576; Gaz. vol. 175; p. 627.
Casalis, Giacomo. (See Pavia and Casalis.)
Casap, John, New York, N. Y. Flying-machine. No. 1,032,812; July 16; Gaz. vol. 180; p. 762.
Casbourne, Charles J., Freedom, Pa. Curtain-pole. No. 1,036,450; Aug. 20; Gaz. vol. 181; p. 766.
Case, Archie C., Coalmont, Ind. Machine for sharpening plowshares. No. 1,014,119; Jan. 9; Sp. p. 2302; Gaz. vol. 174; p. 384.
Case, Benjamin F., Mitchell, Ind. Firearm. No. 1,040,881; Oct. 8; Gaz. vol. 183; p. 440.
Case, Charles F. (See Sandgren and Case.)
Case, Charles J. (See Case and Parker.)
Case, Charles V. and C. J., Bartow, and F. E. Parker, Arcadia, Fla. Dispensing device. No. 1,027,177; May 21; Sp. p. 4641; Gaz. vol. 178; p. 779.
Case, Elmer E., *et al.* (See Thompson, William R., assignor.)
Case, Francis M., Canton, assignor to The Hoover Suction Sweeper Company, New Berlin, Ohio. Brush. No. 1,044,488; Nov. 19; Gaz. vol. 184; p. 563.
Case, Frank E., Schenectady, N. Y., assignor to General Electric Company. Terminal for electric conductors. No. 1,019,423; Mar. 5; Sp. p. 971; Gaz. vol. 176; p. 142.
Case, Frank E., Schenectady, N. Y., assignor to General Electric Company. Motor-control system. No. 1,037,435; Sept. 3; Gaz. vol. 182; p. 88.
Case, Henry. (See Pieper and Case.)
Case, John M., Osawatomie, Kans. Train-order holder. No. 1,025,861; May 7; Sp. p. 1653; Gaz. vol. 178; p. 260.
Case, Jules A., Salida, Colo. Siphon-filter. No. 1,042,317; Oct. 22; Gaz. vol. 183; p. 992.
Case, Nettie J., administratrix. (See Case, Willis W.)
Case, Sanford D., Rock Hill, N. Y. Music-leaf turner. No. 1,039,696; Oct. 1; Gaz. vol. 183; p. 7.
Case, Sydney S., Mount Pleasant, Iowa. Street-sweeper. No. 1,042,532; Oct. 29; Gaz. vol. 183; p. 1095.
Case Tunnel & Engineering Company. (See Rogers, Lebbeus H., assignor.)
Case, William F., *et al.* (See Pieper and Case, assignors.)
Case, Willis W., deceased, Denver, Colo.; N. J. Case, administratrix. Melting-furnace. No. 1,013,838; Jan. 2; Sp. p. 1628; Gaz. vol. 174; p. 260.
Casebolt, Charles H., assignor of fifty-five one-hundredths to Williams Patent Crusher & Pulverizer Company, St. Louis, Mo. Abrasive. No. 1,039,487; Sept. 24; Gaz. vol. 182; p. 871.
Casebolt, William T., Kansas City, Mo. Oil-burner. No. 1,020,024; Mar. 12; Sp. p. 2167; Gaz. vol. 176; p. 373.
Casey, Edward J., Springfield, Mass. Sheet-feeding apparatus. No. 1,040,882; Oct. 8; Gaz. vol. 183; p. 440.
Casey, James D., Baltimore, Md. Wheel. No. 1,043,506; Nov. 5; Gaz. vol. 184; p. 166.
Casey, John T., Philadelphia, Pa., assignor to Keystone Lantern Company. Lamp or lantern. No. 1,013,275; Jan. 2; Sp. p. 404; Gaz. vol. 174; p. 65.
Casey, Patrick H. (See Kershaw, Douglass B., assignor.)
Casgrain, Louis A., Beverly, Mass. Speed-gage. No. 1,042,890; Oct. 29; Gaz. vol. 183; p. 1220.
Casgrain, Louis A., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Press. No. 1,016,983; Feb. 13; Sp. p. 1680; Gaz. vol. 175; p. 294.
Casgrain, Louis A., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Work-support mechanism for fastening-inserting or other machines. No. 1,028,434; June 4; Sp. p. 811; Gaz. vol. 179; p. 123.
Casgrain, Louis A., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Stamping-machine. No. 1,030,161; June 18; Sp. p. 4536; Gaz. vol. 179; p. 784.
Casgrain, Louis A., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for operating upon shoe-soles. No. 1,030,717; June 25; Sp. p. 5998; Gaz. vol. 179; p. 1023.
Casgrain, Louis A., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Work-support. No. 1,030,971; July 2; Gaz. vol. 180; p. 42.
Casgrain, Louis A., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Gage. No. 1,040,273; Oct. 8; Gaz. vol. 183; p. 231.
Casgrain, Louis A., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Indenting and stitch-separating machine. No. 1,047,382; Dec. 17; Gaz. vol. 185; p. 621.
Casgrain, Louis A., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for inserting fastenings. No. 1,048,134; Dec. 24; Gaz. vol. 185; p. 909.
Casgrain, Louis A., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Work-gage. No. 1,048,295; Dec. 24; Gaz. vol. 185; p. 961.
Casgrain, Louis A., Winchester, Mass., assignor, by mesne assignments, to The United Shoe Machinery Company. Nailing-machine. No. 1,017,381; Feb. 13; Sp. p. 2538; Gaz. vol. 175; p. 430.
Cash, Arthur W. (See Matthews, Johnstone, and Cash.)
Cash, Arthur W., Newark, N. J. Valve. No. 1,043,065; Nov. 5; Gaz. vol. 184; p. 5.
Cashon, Henry C., Oktaha, Okla. Hay-presser. No. 1,029,422; June 11; Sp. p. 2952; Gaz. vol. 179; p. 494.
Caskey, Samuel S., assignor to Caskey Valve Company, Philadelphia, Pa. Plug-valve. No. 1,027,178; May 21; Sp. p. 4645; Gaz. vol. 178; p. 780.
Caskey Valve Company. (See Caskey, Samuel S., assignor.)
Casler, John L., Mansfield, Ohio. Reversible glove. No. 1,027,688; May 28; Sp. p. 5689; Gaz. vol. 178; p. 991.
Casler, William A., Chicago, Ill. Drawbridge for railways. No. 1,046,264; Dec. 3; Gaz. vol. 185; p. 162.
Caspary, Ernst, Altena, Germany. Collar-supporter. No. 1,021,916; Apr. 2; Sp. p. 346; Gaz. vol. 177; p. 57.
Casper, Anthony B., Kingston, Pa. Explosive or internal-combustion engine. No. 1,036,451; Aug. 20; Gaz. vol. 181; p. 766.
Cass, Nathan D., Athol, Mass. Toy. No. 1,016,208; Jan. 30; Sp. p. 6809; Gaz. vol. 174; p. 1183.
Cass, Thomas N., Seminole, Tex. Cutter-casing. No. 1,046,551; Dec. 10; Gaz. vol. 185; p. 302.
Cassady, Charles L., Rodeo, N. Mex. Disk-sharpener. No. 1,044,137; Nov. 12; Gaz. vol. 184; p. 412.
Cassady, Robert S., Alameda, Cal. Dump-body motor-truck. No. 1,037,126; Aug. 27; Gaz. vol. 181; p. 1026.
Cassatt, Clarence E. (See Knight and Cassatt.)
Casse, Wolff F. E., assignor to The Stock Company Temperator, Copenhagen, Denmark. Pasteurizing apparatus. No. 1,031,913; July 9; Gaz. vol. 180; p. 412.
Cassell, Oscar R., New York, N. Y. Flying-machine. No. 1,024,766; Apr. 30; Sp. p. 6522; Gaz. vol. 177; p. 1148.
Cassell, Oscar R., New York, N. Y. Angle-indicator. No. 1,038,291; Sept. 10; Gaz. vol. 182; p. 407.

Alphabetical list of patentees—Continued.

Cassella Color Company. (See Gast, Richard, assignor.)
Cassella Color Company. (See Kertesz, Adolf, assignor.)
Casserleigh, John H., assignor of one-eighth to D. Wandel, Denver, Colo. Horseshoe. No. 1,041,959; Oct. 22; Gaz. vol. 183; p. 874.
Casserly, Joseph E., New York, N. Y., assignor to Ely-Norris Safe Company, Perth Amboy, N. J. Safe. No. 1,018,606; Feb. 27; Sp. p. 5307; Gaz. vol. 175; p. 921.
Cassidy, Andrew D., Ottawa, Ill. Piano-bench. No. 1,015,781; Jan. 30; Sp. p. 5926; Gaz. vol. 174; p. 1037.
Cassidy, Hugh, Brooklyn, N. Y. Tube-cleaner connection for boilers. No. 1,020,635; Mar. 19; Sp. p. 3470; Gaz. vol. 176; p. 613.
Cassidy, James C., Patrick, assignor of one-half to I. Merriman, Chesterfield, S. C. Cotton-chopper. No. 1,027,033; May 21; Sp. p. 4320; Gaz. vol. 178; p. 734.
Cassidy, John H., Sault Ste. Marie, Ontario, Canada. Rail-bending machine. No. 1,024,829; Apr. 30; Sp. p. 6655; Gaz. vol. 177; p. 1171.
Cassirer, Alfred, Charlottenburg, Germany. Drying-chamber for electric cables. No. 1,025,121; May 7; Sp. p. 12; Gaz. vol. 178; p. 5.
Cassirer, Hugo, Charlottenburg, Germany. Machine for making dress-shields of india-rubber. No. 1,025,122; May 7; Sp. p. 15; Gaz. vol. 178; p. 5.
Cassity, Anna V., Okmulgee, Okla. Nursery-cabinet. No. 1,027,816; May 28; Sp. p. 5954; Gaz. vol. 178; p. 1033.
Cast Steel Platform Company. (See Westlake, Charles T., assignor.)
Caster, William H., Angels Camp, assignor to D. D. Demarest Co., San Francisco, Cal. Self-locking drill-chuck. No. 1,023,067; Apr. 9; Sp. p. 2797; Gaz. vol. 177; p. 476.
Casterline, Floyd W., Tipton, Iowa. Electric motor. No. 1,017,510; Feb. 13; Sp. p. 2825; Gaz. vol. 175; p. 477.
Castholm, Milo, Kansas City, Mo. Key-holder. No. 1,038,722; Sept. 17; Gaz. vol. 182; p. 591.
Castiglioni Company. (See Castiglioni, Rinaldo C., assignor.)
Castiglioni, Rinaldo C., assignor to Castiglioni Company, Providence, R. I. Bracelet-joint. No. 1,036,189; Aug. 20; Gaz. vol. 181; p. 676.
Castle, Clyde A., Oldham, S. D. Circuit-closer. No. 1,040,883; Oct. 8; Gaz. vol. 183; p. 441.
Castle, Oliver H., Indianapolis, Ind. Air or gas compressor. No. 1,036,797; Aug. 27; Gaz. vol. 181; p. 915.
Castle, William E., Chicago, Ill. Product for making bread, cake, and like foods. No. 1,042,647; Oct. 29; Gaz. vol. 183; p. 1136.
Castlen, George W., St. Louis, Mo. Non-refillable bottle. No. 1,044,743; Nov. 19; Gaz. vol. 184; p. 653.
Castner Electrolytic Alkali Company. (See Baillio, Gervais, assignor.)
Casto, Charles W., Washington, Pa., assignor of one-third to J. E. Bowyer, Spencer, W. Va. Neck-wire for receptacle-closures. No. 1,048,492; Dec. 31; Gaz. vol. 185; p. 1067.
Casto, George D. (See Curtis, Cyrus J. and R. C., assignors.)
Castonguay, Leger J., assignor to The Perkins Electric Switch Manufacturing Company, Bridgeport, Conn. Incandescent-lamp socket. No. 1,046,968; Dec. 10; Gaz. vol. 185; p. 445.
Caswell, Annie E. (See Caswell, William B., assignor.)
Caswell, Harry P., Evanston, Ill. Tool-sharpening machine. No. 1,026,623; May 14; Sp. p. 3356; Gaz. vol. 178; p. 553.
Caswell, Harry P., Evanston, Ill. Attachment for curve-measuring instruments. No. 1,032,739; July 16; Gaz. vol. 180; p. 738.
Caswell, Richard A. (See Caswell, Wallace and R. A.)
Caswell, Wallace and R. A., Cherokee, Iowa. Tandem draft connection for harvesters and the like. No. 1,044,744; Nov. 19; Gaz. vol. 184; p. 653.
Caswell, William B., Newport, R. I. Cord-holder for window-shades. No. 1,029,169; June 11; Sp. p. 2386; Gaz. vol. 179; p. 406.
Caswell, William B., assignor of one-half to A. E. Caswell, Newport, R. I. Window-shade hanger. No. 1,043,000; Oct. 29; Gaz. vol. 183; p. 1257.
Caswell, William C., Wellsville, Ohio. Nut-rotating device. No. 1,020,964; Mar. 26; Sp. p. 4169; Gaz. vol. 176; p. 775.
Caswell, William L., assignor to Peninsular Milled Screw Company, Detroit, Mich. Forming universal crank-pin couplings. No. 1,031,982; July 9; Gaz. vol. 180; p. 434.
Cates, Franklin O. (See Cates, Lorwin N. and F. O.)
Cates, Lorwin N. and F. O., St. Louis, Mo. Garment-supporter. No. 1,026,302; May 14; Sp. p. 2669; Gaz. vol. 178; p. 447.
Cathcart, John. (See Roystone, William H., assignor.)
Catlett, Albert. (See Hinkle and Catlett.)
Catlic, John M. (See Frazier and Catlic.)
Catlin, Seth C., Bloomfield, N. J. Plating-machine. No. 1,030,053; June 18; Sp. p. 4341; Gaz. vol. 179; p. 749.
Catlin, Seth C., Bloomfield, N. J. Carboy-rocker. No. 1,048,493; Dec. 31; Gaz. vol. 185; p. 1067.
Catren, Joseph M., *et al.* (See Bair, George R., assignor.)
Catrow, Millard, Keno, Ky. Hemp-brake. No. 1,037,127; Aug. 27; Gaz. vol. 181; p. 1026.
Catucci, Pliny, Newark, N. J. Fishing-reel. No. 1,016,913; Feb. 6; Sp. p. 1503; Gaz. vol. 175; p. 232.
Catucci, Pliny, assignor to A. F. Meisselbach & Bro., Newark, N. J. Fishing-reel. No. 1,027,179; May 21; Sp. p. 4646; Gaz. vol. 178; p. 780.
Catucci, Pliny, assignor to A. F. Meisselbach & Bro., Newark, N. J. Nail-clipper. No. 1,027,180; May 21; Sp. p. 4648; Gaz. vol. 178; p. 781.
Catucci, Pliny, Newark, N. J., assignor to A. F. Meisselbach & Brother. Spring-box for spring-motors. No. 1,029,852; June 18; Sp. p. 3903; Gaz. vol. 179; p. 679.
Catucci, Pliny, Newark, N. J., assignor, by mesne assignments, to Meisselbach Catucci Manufacturing Company. Automatic chuck. No. 1,034,419; Aug. 6; Gaz. vol. 181; p. 7.
Catucci, Pliny, Newark, N. J., assignor to A. F. Meisselbach & Brother. Mechanical movement. No. 1,037,436; Sept. 3; Gaz. vol. 182; p. 88.
Cauble, Franklin P., High Point, N. C. Clock-operated electric switch. No. 1,026,905; May 21; Sp. p. 4008; Gaz. vol. 178; p. 688.
Caudell, Henry W., Homer, Ga. Hoe. No. 1,023,720; Apr. 16; Sp. p. 4140; Gaz. vol. 177; p. 727.
Caudle, James C., *et al.* (See Williamson, Newton H., assignor.)
Caughrean, George H., Ketchikan, Alaska. Packing-machine. No. 1,042,200; Oct. 22; Gaz. vol. 183; p. 953.
Caul, Louis. (See Prosser, Joseph F., assignor.)
Cavagnaro, Frank L., Winsted, Conn. Composition of matter for belt-dressings. No. 1,023,992; Apr. 23; Sp. p. 4766; Gaz. vol. 177; p. 846.
Cavallini, Virginio, Spezia, Italy. Hull for submarine boats. No. 1,044,489; Nov. 19; Gaz. vol. 184; p. 563.
Cavanagh, Daniel F. (See Cavanagh, Eugene M. and D. F.)
Cavanagh, Eugene M. and D. F., Brooklyn, assignors to New York Scaffolding Co., New York, N. Y. Scaffold-support. No. 1,030,643; June 25; Sp. p. 5815; Gaz. vol. 179; p. 997.
Cavanagh, James, Boston, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Tacking mechanism. No. 1,026,944; May 21; Sp. p. 4123; Gaz. vol. 178; p. 702.
Cavanagh, James, Jr., Boston, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Shoe. No. 1,013,739; Jan. 2; Sp. p. 1438; Gaz. vol. 174; p. 226.
Cavanagh, James F., Philadelphia, Pa. Trousers-leg holder. No. 1,017,511; Feb. 13; Sp. p. 2832; Gaz. vol. 175; p. 477.
Cavanagh, John F., assignor of three-fourths to Lindsley and Allen Electric Company, Providence, R. I. Ignition device. No. 1,016,399; Feb. 6; Sp. p. 367; Gaz. vol. 175; p. 58.
Cavanagh, John F., assignor of three-fourths to Lindsley & Allen Electric Company, Providence, R. I. Induction-coil. No. 1,034,583; Aug. 6; Gaz. vol. 181; p. 60.
Cave, Thomas P., and J. M. Buck, assignors of one-half to F. Reichelsheimer and one-half to S. Roth, Columbus, Ohio. Adjustable shade-fixture. No. 1,023,812; Apr. 23; Sp. p. 4342; Gaz. vol. 177; p. 785.
Caven, Alva H., Youngwood, Pa. Electromechanical device for controlling electric signals. No. 1,032,880; July 16; Gaz. vol. 180; p. 783.
Caven, Marcus E. (See Murray and Caven.)
Cavender, John C. (See Merrill and Cavender.)
Cavendish, James M., *et al.* (See Taylor, James C., assignor.)
Cavenee, William W., Greenfield, Mo. Corn-planter. No. 1,041,021; Oct. 15; Gaz. vol. 183; p. 521.
Caverly, Edward, New York, N. Y. Means for carrying out business systems. No. 1,032,111; July 9; Gaz. vol. 180; p. 476.
Caverno, Xenophon, Kewanee, Ill. Pumping apparatus. No. 1,015,782; Jan. 30; Sp. p. 5927; Gaz. vol. 174; p. 1037.
Caverno, Xenophon, Kewanee, Ill. Pumping apparatus. No. 1,021,861; Apr. 2; Sp. p. 241; Gaz. vol. 177; p. 39.
Cavicchioli, Dante, New York, N. Y. Cuspidor. No. 1,034,080; July 30; Gaz. vol. 180; p. 1254.
Cavileer, William N., Los Angeles, Cal. Mechanism for winding lines. No. 1,030,770; June 25; Sp. p. 6139; Gaz. vol. 179; p. 1041.
Cavill, George T., Sydney, New South Wales, Australia. Change-speed gearing. No. 1,046,552; Dec. 10; Gaz. vol. 185; p. 302.
Cavill, James C., and G. F. Lehberger, New Castle, Pa. Roll-polishing device. No. 1,018,163; Feb. 20; Sp. p. 4297; Gaz. vol. 175; p. 738.
Cawley, Clyde C., assignor to Turner-Harris Vending Machine Company, Thomson, Ga. Vending-machine. No. 1,032,989; July 16; Gaz. vol. 180; p. 819.
Cayford, Benjamin F., Skowhegan, Me. Runner attachment for track-sulkies. No. 1,047,745; Dec. 17; Gaz. vol. 185; p. 750.
Cazin, Max, Hamilton, Cal. Pile-driving device. No. 1,029,102; June 11; Sp. p. 2250; Gaz. vol. 179; p. 384.
Cazmay, Frank T., *et al.* (See Thomas, George J., assignor.)
Cecil, James M., *et al.* (See Harris, Edward E., assignor.)
Cedar Rapids Foundry & Machine Company. (See Strite, Charles P., assignor.)

Alphabetical list of patentees—Continued.

Cefalo, Ciriaco, and R. C. H. Reid, Bangor, Me. Fender. No. 1,026,655; May 21; Sp. p. 3448; Gaz. vol. 178; p. 601.
Ceipek, Norbert, Vienna, Austria-Hungary. Safety explosive. No. 1,033,537; July 23; Gaz. vol. 180; p. 1042.
Ceipek, Norbert, Vienna, Austria-Hungary. Safety explosive. No. 1,038,292; Sept. 10; Gaz. vol. 182; p. 407.
Celfor Tool Company. (See Clark, Eugene B., assignor.)
Cellular Metal Company, The. (See Goldsmith, Max S., assignor.)
Celluloid Company, The. (See Lindsay, William G., assignor.)
Centala, Watson, Metz, Mich. Brake for self-waiting tables. No. 1,017,849; Feb. 20; Sp. p. 3577; Gaz. vol. 175; p. 627.
Central Novelty Manufacturing Company. (See Carey and Condon, assignors.)
Central Tool Company, The. (See Jaques, Fernando O., Jr., assignor.)
Central Zinc Company Limited. (See Moulden and Webster, assignors.)
Century Sanitary Manufacturing Company. (See Unckless, Leslie, assignor.)
Ceramic Machinery Company, The. (See Goldsmith, Frederick E., assignor.)
Cerasoli, Alberto. (See Humphrey and Cerasoli.)
Cerbo, Ferdinando, Providence, R. I. Urethroscope. No. 1,044,348; Nov. 12; Gaz. vol. 184; p. 485.
Černovský, Constantin. (See Daniček, Černovský, and Kloth.)
Cerny, Vaclav, assignor of one-half to J. Pickas, Chicago, Ill. Hinge No. 1,048,038; Dec. 24; Gaz. vol. 185; p. 876.
Cerri, Nicola, Cleveland, Ohio. Cuff-protector. No. 1,013,126; Jan. 2; Sp. p. 76; Gaz. vol. 174; p. 14.
Cesario, John F., Bogalusa, La. Rotary motor. No. 1,017,850; Feb. 20; Sp. p. 3579; Gaz. vol. 175; p. 628.
Cessna, John B., Pittsburgh, Pa. Animal-trap. No. 1,028,435; June 4; Sp. p. 816; Gaz. vol. 179; p. 123.
Cessna, John B., Pittsburgh, Pa. Animal-trap. No. 1,044,490; Nov. 19; Gaz. vol. 184; p. 563.
Chabot, Aime, Jr., Spratt, Mich. Cushioning device. No. 1,022,225; Apr. 2; Sp. p. 1006; Gaz. vol. 177; p. 161.
Chace, John E., South Attleboro, Mass. Braiding-machine carrier. No. 1,041,590; Oct. 15; Gaz. vol. 183; p. 710.
Chadbourne, Edward J. (See Walker, George S., assignor.)
Chaddock-Kurz Reversible Glove Company, The. (See Zimmerman, Harry, assignor.)
Chadeloid Chemical Company. (See Dosselman and Neymann, assignors.)
Chadeloid Chemical Company. (See Ellis, Carleton, assignor.)
Chadwick, Francis C., assignor to Savage Arms Company, Utica, N. Y. Sight for firearms. No. 1,018,876; Feb. 27; Sp. p. 5866; Gaz. vol. 175; p. 1012.
Chaffee, Edward F., assignor to O. M. Edwards, Syracuse, N. Y. Spring-roller. No. 1,046,439; Dec. 10; Gaz. vol. 185; p. 261.
Chaffee, Frank W., Albany, N. Y. Hasp-fastener for doors. No. 1,017,135; Feb. 13; Sp. p. 2021; Gaz. vol. 175; p. 347.
Chaffee, Frank W., Albany, N. Y. Hasp-fastener for doors. No. 1,017,136; Feb. 13; Sp. p. 2023; Gaz. vol. 175; p. 347.
Chainey, Emanuel, assignor of one-half to J. Akrigg, Florence, Wis. Saw-gummer. No. 1,018,740; Feb. 27; Sp. p. 5583; Gaz. vol. 175; p. 966.
Chalko, Stanley, New Britain, Conn. Shade-roller and curtain holder. No. 1,013,127; Jan. 2; Sp. p. 77; Gaz. vol. 174; p. 14.
Challburg, Morris G., Lincoln, Nebr. Railway-tie. No. 1,021,659; Mar. 26; Sp. p. 5621; Gaz. vol. 176; p. 1011.
Challinor, Arthur V., Pittsburgh, Pa. Window-shade. No. 1,032,112; July 9; Gaz. vol. 180; p. 477.
Chalmers-Detroit Motor Company. (See Coffin, Howard E., assignor.)
Chalmers-Detroit Motor Company. (See Taylor, Cecil H., assignor.)
Chalmers-Detroit Motor Company. (See Utz, John G., assignor.)
Chalmers, James. (See Hood and Chalmers.)
Chalmers, John, Bath, Me. Clutch. No. 1,046,440; Dec. 10; Gaz. vol. 185; p. 261.
Chalmers Motor Company. (See Coffin, Howard E., assignor.)
Chalmers Motor Company, The. (See Dunham, George W., assignor.)
Chalmers Motor Company. (See Morgan, Mathew B., assignor.)
Chalmers, Robert. (See Gibb, Menzies, and Chalmers.)
Chaloner, Thomas T., New York, N. Y. Vehicle-wheel. No. 1,046,969; Dec. 10; Gaz. vol. 185; p. 445.
Chaloud, Frank, Jr., Brownlee, Nebr. Supplemental bottom for pots and pans. No. 1,021,133; Mar. 26; Sp. p. 4513; Gaz. vol. 176; p. 832.
Chamberlain, Eliot H., trustee. (See Ressencourt, Eugène G., assignor.)
Chamberlain, Glenn R., and A. G. Schroeder, Grand Rapids, Mich. Gas-fixture. No. 1,019,131; Mar. 5; Sp. p. 278; Gaz. vol. 176; p. 43.
Chamberlain, Glenn R., and A. G. Schroeder, Grand Rapids, Mich. Gas-fixture. No. 1,019,132; Mar. 5; Sp. p. 279; Gaz. vol. 176; p. 43.
Chamberlain, John W., Bismarck, N. D. Combination-tool. No. 1,042,318; Oct. 22; Gaz. vol. 183; p. 992.
Chamberlain, Orville T. (See Signor, Alfred J., assignor.)
Chamberlain, William H., and F. A. Hadley, Worcester, Mass. Floor-jack. No. 1,013,927; Jan. 9; Sp. p. 1879; Gaz. vol. 174; p. 320.
Chamberlin, Benjamin F., Jr., assignor to Walpole Shoe Supply Company, Boston, Mass. Button-fly stay. No. 1,044,138; Nov. 12; Gaz. vol. 184; p. 412.
Chamberlin, John H., Kalamazoo, Mich. Window-screen. No. 1,025,244; May 7; Sp. p. 297; Gaz. vol. 178; p. 49.
Chamberlin, Victor E., assignor to The Waverley Company, Indianapolis, Ind. Controller for electric motors. No. 1,019,757; Mar. 12; Sp. p. 1629; Gaz. vol. 176; p. 284.
Chambers, Arthur L., and N. Bane, Smithfield, W. Va. Walking-beam. No. 1,013,533; Jan. 2; Sp. p. 968; Gaz. vol. 174; p. 155.
Chambers Brothers Company. (See Chambers, Cyrus, Jr., assignor.)
Chambers Brothers Company. (See King, Howard K., assignor.)
Chambers Brothers Company. (See Walker, Joseph, assignor.)
Chambers, Cyrus, Jr., Overbrook, Pa., assignor to Chambers Brothers Company. Controlling mechanism. No. 1,014,376; Jan. 9; Sp. p. 2871; Gaz. vol. 174; p. 475.
Chambers, Cyrus, Jr., Overbrook, Pa., assignor to Chambers Brothers Company. Regulating device. No. 1,033,672; July 23; Gaz. vol. 180; p. 1086.
Chambers, David, Portland, Oreg. Hydrocarbon-burner. No. 1,047,383; Dec. 17; Gaz. vol. 185; p. 621.
Chambers, David F., assignor to The Star Ball Retainer Company, Lancaster, Pa. Manufacturing ball-retainers. No. 1,040,274; Oct. 8; Gaz. vol. 183; p. 231.
Chambers, George A., assignor to Montague Mailing Machinery Company, New York, N. Y. Filing-case. No. 1,023,297; Apr. 16; Sp. p. 3317; Gaz. vol. 177; p. 593.
Chambers, Harry, Lakewood, N. J. Mail-box. No. 1,024,617; Apr. 30; Sp. p. 6208; Gaz. vol. 177; p. 1095.
Chambers, Henry C., Cincinnati, Ohio. Hydraulic motor. No. 1,037,865; Sept. 10; Gaz. vol. 182; p. 263.
Chambers, James A., Allegheny, Pa. Apparatus for handling glass. No. 1,016,933; Feb. 13; Sp. p. 1555; Gaz. vol. 175; p. 276.
Chambers, James A., Allegheny, Pa. Glass-handling apparatus. No. 1,037,592; Sept. 3; Gaz. vol. 182; p. 139.
Chambers, John A., Newburg, assignor of one-half to J. R. Chambers, Bangert, Mo. Rail-joint. No. 1,045,946; Dec. 3; Gaz. vol. 185; p. 51.
Chambers, John A., Newburg, assignor of one-half to A. B. Hale, Rolla, Mo. Hand-car. No. 1,048,655; Dec. 31; Gaz. vol. 185; p. 1124.
Chambers, John E., Shelbyville, Ind. Cooker. No. 1,041,022; Oct. 15; Gaz. vol. 183; p. 522.
Chambers, John R. (See Chambers, John A., assignor.)
Chambers, John T., New Orleans, La. Plow. No. 1,015,003; Jan. 16; Sp. p. 4277; Gaz. vol. 174; p. 718.
Chambers, John W., Newark, Del. Dead-plate for boilers. No. 1,025,368; May 7; Sp. p. 588; Gaz. vol. 178; p. 91.
Chambers, Kelley, Elkmont Springs, Tenn. Tire. No. 1,031,523; July 2; Gaz. vol. 180; p. 234.
Chambers Motors Limited. (See Patton, Alexander M., assignor.)
Chambers, Ralph H., New York, N. Y., assignor to The Foundation Company. Caisson. No. 1,026,656; May 21; Sp. p. 3451; Gaz. vol. 178; p. 602.
Chambers, Samuel E., Glen Easton, W. Va. Mail-bag fastener. No. 1,046,970; Dec. 10; Gaz. vol. 185; p. 446.
Chambers, Thomas C., Mangum, Okla. Door for grain-cars. No. 1,042,891; Oct. 29; Gaz. vol. 183; p. 1221.
Chambersburg Engineering Company. (See Derbyshire, Henry E., assignor.)
Chambersburg Engineering Company. (See Terhune, Howard, assignor.)
Chamness, Frank, Huntington, Ind. Railway-switch. No. 1,025,369; May 7; Sp. p. 589; Gaz. vol. 178; p. 91.
Champ, Joseph H., Cleveland, Ohio. Bottle-holder for bottle-filling machines. No. 1,017,038; Feb. 13; Sp. p. 1790; Gaz. vol. 175; p. 312.
Champ, Joseph H., Cleveland, Ohio. Hydraulic motor. No. 1,032,531; July 16; Gaz. vol. 180; p. 664.
Champagne, Alphonse C., and J. N. Brahn, Jersey City, N. J. Carborundum-dresser. No. 1,026,494; May 14; Sp. p. 3096; Gaz. vol. 178; p. 511.
Champion, Charles S. (See Beskow, Bernhard M., assignor.)
Champion Ice Machine Company. (See Byerly, William A., assignor.)
Champion Ignition Company. (See Schmidt, Albert, assignor.)
Champion, John W., Pueblo, Colo. Scraper. No. 1,027,592; May 28; Sp. p. 5488; Gaz. vol. 178; p. 960.
Champion Machinery Company. (See Streich, Frank, assignor.)

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Champion Metal Weather Strip and Parting Bead Company. (See Gifford, Harry E., assignor.)
Champion Potato Machinery Company. (See Knoerzer, Otto, assignor.)
Champion Register Company, The. (See Miller, Joseph, assignor.)
Champion Shoe Machinery Company. (See Corcoran, Edward M., assignor.)
Champion Shoe Machinery Company. (See Dobyne, Stephen A., assignor.)
Champion Shoe Machinery Company, The. (See Flint, John B., assignor.)
Champion Shoe Machinery Company. (See Schoenky, August R., assignor.)
Champlin, Frank A. (See Burton, James L., assignor.)
Champlin, George E., Pawtucket, R. I. Releasable-fluke anchor. No. 1,042,892; Oct. 29; Gaz. vol. 183; p. 1221.
Chanal, Emile, San Francisco, Cal. Match-container. No. 1,035,317; Aug. 13; Gaz. vol. 181; p. 339.
Chance, Albert B., Centralia, Mo. Attachment for corn-planters. No. 1,014,206; Jan. 9; Sp. p. 2464; Gaz. vol. 174; p. 414.
Chance, Henry M. and T. M., Philadelphia, Pa. Pumping liquids. No. 1,020,965; Mar. 26; Sp. p. 4170; Gaz. vol. 176; p. 775.
Chance, Henry M. and T. M., Philadelphia, Pa. Apparatus for pumping liquids. No. 1,021,237; Mar. 26; Sp. p. 4743; Gaz. vol. 176; p. 866.
Chance, Henry M. and T. M., Philadelphia, Pa. Pumping liquids. No. 1,026,637; May 14; Sp. p. 3385; Gaz. vol. 178; p. 558.
Chance, Henry M. and T. M., Philadelphia, Pa. Operating reciprocating pumps. No. 1,026,638; May 14; Sp. p. 3390; Gaz. vol. 178; p. 559.
Chance, Henry M. and T. M., Philadelphia, Pa. Operating internal-combustion pumps. No. 1,026,639; May 14; Sp. p. 3392; Gaz. vol. 178; p. 559.
Chance, Henry M. and T. M., Philadelphia, Pa. Regulating pumps of certain types for the pumping of liquids. No. 1,032,113; July 9; Gaz. vol. 180; p. 477.
Chance, Henry M. and T. M., Philadelphia, Pa. Pumping liquids. No. 1,032,114; July 9; Gaz. vol. 180; p. 477.
Chance, Thomas M. (See Chance, Henry M. and T. M.)
Chance, Thomas M., Philadelphia, Pa. Pumping liquids. No. 1,021,038; Mar. 26; Sp. p. 4315; Gaz. vol. 176; p. 802.
Chandler, Charles S., *et al.* (See Cummins, Herbert L., assignor.)
Chandler, Clarence A., East Bridgewater, Mass. Cotton-seed huller. No. 1,027,320; May 21; Sp. p. 4933; Gaz. vol. 178; p. 830.
Chandler, Daniel L., Ayer, Mass. Holder for bristles of brushes. No. 1,042,393; Oct. 29; Gaz. vol. 183; p. 1045.
Chandler, Daniel L., Ayer, assignor of one-third to J. H. Trayne, Groton, and one-third to E. W. Blake, Pepperell, Mass. Tuft-making machine. No. 1,028,436; June 4; Sp. p. 817; Gaz. vol. 179; p. 124.
Chandler, Edward F., Brooklyn, N. Y. Machine for holding, displaying, and indorsing checks. No. 1,032,378; July 16; Gaz. vol. 180; p. 614.
Chandler, Edward T., Delmont, S. D. Harrow. No. 1,019,221; Mar. 5; Sp. p. 470; Gaz. vol. 176; p. 75.
Chandler, Edwin N., Brockton, assignor to Simplex Electric Heating Company, Boston, Mass. Electrically-heated branding-head. No. 1,022,061; Apr. 2; Sp. p. 657; Gaz. vol. 177; p. 104.
Chandler, Edwin N., Brockton, assignor to Simplex Electric Heating Company, Boston, Mass. Shoe-branding machine. No. 1,042,319; Oct. 22; Gaz. vol. 183; p. 992.
Chandler, Frank, Pampa, Wash. Horse-releaser. No. 1,027,374; May 21; Sp. p. 5043; Gaz. vol. 178; p. 849.
Chandler, John H., Indian Orchard, Mass. Valve. No. 1,013,861; Jan. 9; Sp. p. 1718; Gaz. vol. 174; p. 297.
Chandler, Willard R., Branchville, S. C. Fluid-actuated lifting-jack. No. 1,029,423; June 11; Sp. p. 2957; Gaz. vol. 179; p. 494.
Chandler, Willard R., Branchville, S. C. Straight-air brake attachment for automatic systems. No. 1,042,083; Oct. 22; Gaz. vol. 183; p. 916.
Chandonnet, Thomas J., Waubun, Minn. Lifting mechanism for gang-plows. No. 1,013,740; Jan. 2; Sp. p. 1440; Gaz. vol. 174; p. 226.
Channell, Alfred T., Chicago, Ill. Mop. No. 1,048,494; Dec. 31; Gaz. vol. 185; p. 1067.
Channell, Charles A., Chicago, Ill. Mop. No. 1,041,023; Oct. 15; Gaz. vol. 183; p. 522.
Channon, James. (See Griffin, Henry A. T., assignor.)
Chapbell, James F. (See Brown and Chapbell.)
Chapin, Allie W. (See Purchas and Chapin.)
Chapin, Francis A., Indianapolis, and W. Y. Chapin, Muncie, assignors to The Chapin Manufacturing Company, Indianapolis, Ind. Carbureter. No. 1,018,164; Feb. 20; Sp. p. 4299; Gaz. vol. 175; p. 738.
Chapin, Gardner S., Chicago, Ill. Internal-combustion engine. No. 1,031,245; July 2; Gaz. vol. 180; p. 140.
Chapin, Henry S., Rockville Center, N. Y. Vehicle-spring No. 1,034,401; July 30; Gaz. vol. 180; p. 1366.
Chapin, Henry S., Bowling Green, Ohio. Grain-sprouting device. No. 1,046,971; Dec. 10; Gaz. vol. 185; p. 446.
Chapin Manufacturing Company, The. (See Chapin, Francis A. and W. Y., assignors.)
Chapin, Robert M., Washington, D. C. Concentrated animal-dip. No. 1,049,049; Dec. 31; Gaz. vol. 185; p. 1261.
Chapin, William G., assignor to The Thompson & Norris Company, Brooklyn, N. Y. Compound stay for paper boxes. No. 1,039,363; Sept. 24; Gaz. vol. 182; p. 828.
Chapin, William Y. (See Chapin, Francis A. and W. Y.)
Chaplain, George H. (See Topper and Chaplain.)
Chaplain, George H., Leavenworth, Kans. Steering-gear. No. 1,015,295; Jan. 23; Sp. p. 4860; Gaz. vol. 174; p. 842.
Chaplin, Alfred, and J. J. Marsh, Leicester, England, assignors to United Shoe Machinery Company, Paterson, N. J. Work-support. No. 1,032,881; July 16; Gaz. vol. 180; p. 784.
Chapman, Alexander K., Seattle, Wash. Garment-hook. No. 1,017,738; Feb. 20; Sp. p. 3285; Gaz. vol. 175; p. 588.
Chapman, Arthur W., Birmingham, England. Shock-absorber for road-vehicles. No. 1,042,320; Oct. 22; Gaz. vol. 183; p. 993.
Chapman, Charles E., assignor of one-half to A. Raper, Fort Edward, N. Y. Saddle for motor-cycles, &c. No. 1,019,597; Mar. 5; Sp. p. 1319; Gaz. vol. 176; p. 198.
Chapman, Evan B., Chicago, Ill. Electric car-signal. No. 1,026,906; May 21; Sp. p. 4008; Gaz. vol. 178; p. 688.
Chapman, Everett B., Boston, assignor to S. A. Campbell, Newton, Mass. Horn or whistle. No. 1,048,942; Dec. 31; Gaz. vol. 185; p. 1224.
Chapman, Frank S., assignor to The National Electric Specialty Company, Toledo, Ohio. Lightning-arrester. No. 1,017,649; Feb. 20; Sp. p. 3092; Gaz. vol. 175; p. 559.
Chapman, Frank S., assignor to The National Electric Specialty Company, Toledo, Ohio. Manufacture of vacuum lightning-arresters. No. 1,024,555; Apr. 30; Sp. p. 6070; Gaz. vol. 177; p. 1075.
Chapman, Frank S., Kenton, assignor to The National Electric Specialty Company, Toledo, Ohio. Lightning-arrester. No. 1,034,584; Aug. 6; Gaz. vol. 181; p. 61.
Chapman, Frank S., and J. T. Greene, assignors to The National Electric Specialty Company, Toledo, Ohio. Vacuum lightning-arrester. No. 1,017,648; Feb. 20; Sp. p. 3091; Gaz. vol. 175; p. 559.
Chapman, George M. (See Williams, Lawson M., assignor.)
Chapman, George W. C., Huntsville, Ala. Stop-motion for looms. No. 1,026,342; May 14; Sp. p. 2764; Gaz. vol. 178; p. 462.
Chapman, John M. (See Hudlow and Chapman.)
Chapman, John V., Scott, Kans. Pump. No. 1,023,298; Apr. 16; Sp. p. 3319; Gaz. vol. 177; p. 593.
Chapman, Joseph M., Macedonia, Iowa. Colter attachment for plows. No. 1,023,412; Apr. 16; Sp. p. 3545; Gaz. vol. 177; p. 631.
Chapman, Matthew T., assignor to The American Well Works, Aurora, Ill. Well-sinking apparatus. No. 1,044,349; Nov. 12; Gaz. vol. 184; p. 486.
Chapman, Minerva A., Fort Wayne, Ind. Needle-threader. No. 1,047,169; Dec. 17; Gaz. vol. 185; p. 543.
Chapman, Thomas, Denver, Colo. Thermostat. No. 1,034,689; Aug. 6; Gaz. vol. 181; p. 95.
Chapman, Walter A., *et al.* (See Dickert, Curtis L., assignor.)
Chapman, William B., New York, N. Y. Gas-producer. No. 1,015,296; Jan. 23; Sp. p. 4862; Gaz. vol. 174; p. 843.
Chapman, William H., Portland, Me. Regulator for dynamos. No. 1,027,101; May 21; Sp. p. 4489; Gaz. vol. 178; p. 757.
Chapon, Francis A. M., assignor to Société Francis Chapon & Cie., Paris, France. Cash-register or check-till. No. 1,013,741; Jan. 2; Sp. p. 1441; Gaz. vol. 174; p. 226.
Chappel, Christopher C., assignor of one-half to J. D. Stringer, Bono, Ark. Plow-colter. No. 1,030,718; June 25; Sp. p. 6000; Gaz. vol. 179; p. 1023.
Chappel, James M., New York, N. Y., assignor to C. S. Marsh, Winchester, Mass. Weighing-machine. No. 1,021,134; Mar. 26; Sp. p. 4515; Gaz. vol. 176; p. 832.
Chappell, Arthur E., Chicago, Ill. Surfacing-machine. No. 1,041,240; Oct. 15; Gaz. vol. 183; p. 595.
Chappell, Frederick D., Oakland, Cal. Wave and tide motor. No. 1,016,400; Feb. 6; Sp. p. 369; Gaz. vol. 175; p. 58.
Chappell, Marvin L. (See Black and Chappell.)
Chappell, William, San Jose, Cal. Nut-huller. No. 1,037,128; Aug. 27; Gaz. vol. 181; p. 1026.
Chaput, Wilfrid, Haverhill, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for operating upon soles. No. 1,030,644; June 25; Sp. p. 5818; Gaz. vol. 179; p. 997.
Charavay, Frederick. (See Coles and Charavay.)
Charbonneau, Arthur A. and L. A., Montreal, Quebec, Canada. Fire-extinguisher. No. 1,038,850; Sept. 17; Gaz. vol. 182; p. 636.

Alphabetical list of patentees—Continued.

Charbonneau, Arthur A. and L. A., Montreal, Quebec, Canada. Portable fire-extinguisher. No. 1,041,024; Oct. 15; Gaz. vol. 183; p. 522.
Charbonneau, Leo A. (See Charbonneau, Arthur A. and L. A.)
Chard, Nicholas D., assignor to The Lodge & Shipley Machine Tool Company, Cincinnati, Ohio. Lathe. No. 1,022,721; Apr. 9; Sp. p. 2087; Gaz. vol. 177; p. 358.
Chard, Nicholas D., assignor to The Lodge & Shipley Machine Tool Company, Cincinnati, Ohio. Lathe. No. 1,036,190; Aug. 20; Gaz. vol. 181; p. 676.
Charland, Eli P., Somerset, Wis. Self-feeder for threshing-machines. No. 1,035,113; Aug. 6; Gaz. vol. 181; p. 237.
Charles, Albion P., Iola, Kans. Rotary engine. No. 1,023,993; Apr. 23; Sp. p. 4767; Gaz. vol. 177; p. 846.
Charles Boldt Company, The. (See Taylor, Thomas H., assignor.)
Charles Bond Company. (See Grundy, John R., assignor.)
Charles, Clyde C., Hoisington, Kans. Automatic spark-advancer. No. 1,040,884; Oct. 8; Gaz. vol. 183; p. 441.
Charles E. Hancock Company. (See Patten, Charles H., assignor.)
Charles E. Hires Company, The. (See Calvert, Frank W., assignor.)
Charles Hunnicutt Company, The. (See Hunnicutt, Charles, assignor.)
Charles J. Tagliabue Manufacturing Co. (See Roesch, Alfred, assignor.)
Charles, Ora D. (See Martin and Charles.)
Charles, Seward, Washington, D. C. Combination toy parachute and shovel. No. 1,030,054; June 18; Sp. p. 4343; Gaz. vol. 179; p. 749.
Charles W. Shonk Company. (See Harbeck, Jervis R., assignor.)
Charles W. Shonk Company. (See Shonk, Charles W., assignor.)
Charles Wing Company, The. (See Davis, James A., assignor.)
Charles Wing Company, The. (See Hawkes, William W., assignor.)
Charlet, William A., Kewanee, Ill. Lace-curtain-display case. No. 1,026,561; May 14; Sp. p. 3221; Gaz. vol. 178; p. 532.
Charley, John J., Malvern, Victoria, Australia. Spring suspension for vehicles. No. 1,013,742; Jan. 2; Sp. p. 1444; Gaz. vol. 174; p. 227.
Charley, John J., Malvern, Victoria, Australia, and F. Lamplough, London, England; said Lamplough assignor to said Charley. Spring suspension for vehicles. No. 1,046,553; Dec. 10; Gaz. vol. 185; p. 303.
Charlottenburger Farbwerke Aktien Gesellschaft. (See Wagner, Hubert, assignor.)
Charlton, Albert J., Lowden, Iowa. Motor-starter. No. 1,047,746; Dec. 17; Gaz. vol. 185; p. 751.
Charlton, Thomas, Chicago, Ill. Fluid-meter. No. 1,016,934; Feb. 13; Sp. p. 1558; Gaz. vol. 175; p. 276.
Charlton, Thomas E., *et al.* (See Hogan, Thomas G., assignor.)
Charlton, William, Marinette, Wis. Combined wrench and clamp. No. 1,039,027; Sept. 17; Gaz. vol. 182; p. 694.
Charmois, Dennis C., Canton, Ohio. Supply and waste for bath-tubs. No. 1,025,683; May 7; Sp. p. 1275; Gaz. vol. 178; p. 198.
Charpier, Edward. (See Charpier, Walter H. E. and E.)
Charpier, Walter H. E. and E., Chicago, Ill. Pipe-cutter. No. 1,018,695; Feb. 27; Sp. p. 5480; Gaz. vol. 175; p. 950.
Charroin, Frank B., South Bellingham, assignor to Bellingham Brass Mfg. Co., Bellingham, Wash. Flush-valve. No. 1,014,637; Jan. 16; Sp. p. 3451; Gaz. vol. 174; p. 593.
Charroin, Frank B., South Bellingham, assignor to Bellingham Brass Manufacturing Company, Bellingham, Wash. Float-valve. No. 1,041,025; Oct. 15; Gaz. vol. 183; p. 523.
Charter, John, Whitman, Mass. Vehicle. No. 1,020,636; Mar. 19; Sp. p. 3473; Gaz. vol. 176; p. 613.
Charter Shirt Company. (See Straus, Philip R., assignor.)
Chas. Polacheck & Bro. Co. (See Neuhoefer and Polacheck, assignors.)
Chase, Arthur B. (See Chase, Erwin C. and A. B.)
Chase, Arthur W., Newport News, Va. Chocolate compound and preparing the same. No. 1,038,723; Sept. 17; Gaz. vol. 182; p. 591.
Chase, Aurin M., Syracuse, N. Y. Internal-combustion engine. No. 1,037,437; Sept. 3; Gaz. vol. 182; p. 88.
Chase, Aurin M., assignor to Syracuse Chilled Plow Company, Syracuse, N. Y. Sulky-plow. No. 1,024,437; Apr. 23; Sp. p. 5720; Gaz. vol. 177; p. 996.
Chase & Baker Company, The. (See Bayer, William F., assignor.)
Chase, Burton B., and E. Van Sickle, assignors of one-third to C. N. Knapp, Port Jervis, N. Y. Screw-driver. No. 1,028,675; June 4; Sp. p. 1314; Gaz. vol. 179; p. 202.
Chase, Burton B., and E. Van Sickle, assignors of one-third to C. N. Knapp, Port Jervis, N. Y. Wrench. No. 1,033,049; July 16; Gaz. vol. 180; p. 840.
Chase, Edward P. (See Cooper and Chase.)
Chase, Erwin C. and A. B., Seattle, Wash. Flying-machine. No. 1,043,668; Nov. 5; Gaz. vol. 184; p. 221.
Chase, Frank D. (See Smith, Hunter, assignor.)
Chase, Frank H., Chicago, Ill. Cultivator-rake. No. 1,031,688; July 9; Gaz. vol. 180; p. 334.
Chase, Frederic D., Jr., Everett, assignor to Walker-Longfellow Company, Boston, Mass. Folding card. No. 1,045,257; Nov. 26; Gaz. vol. 184; p. 860.
Chase, Joseph H., Boston, Mass., assignor to American Piano Company, New York, N. Y. Note-sheet for musical instruments. No. 1,034,420; Aug. 6; Gaz. vol. 181; p. 7.
Chase, Milton, assignor of eleven-twentieths to I. J. Webster and two-twentieths to J. F. Batchelder, Haverhill, Mass. Safety flying-machine. No. 1,020,945; Mar. 19; Sp. p. 4112; Gaz. vol. 176; p. 718.
Chase, Philo H., Eckman, N. D. Weed-hook. No. 1,036,191; Aug. 20; Gaz. vol. 181; p. 676.
Chase-Shawmut Company. (See Buchanan, Leonard B., assignor.)
Chastain, Robert M., *et al.* (See Cadwallader, Elisha A., assignor.)
Chastain, Samuel L., *et al.* (See Cadwallader, Elisha A., assignor.)
Chasteen, Reauby, Thorsby, Ala. Churn. No. 1,031,524; July 2; Gaz. vol. 180; p. 234.
Chatfield, Alonzo B., Jr. (See Harrison and Chatfield.)
Chatfield, Franklin, Minneapolis, Minn. Scale. No. 1,034,202; July 30; Gaz. vol. 180; p. 1295.
Chatfield, Franklin, assignor to Northwestern Knitting Company, Minneapolis, Minn. Sewing-machine. No. 1,038,851; Sept. 17; Gaz. vol. 182; p. 637.
Chatfield, Franklin, assignor of one-fourth to E. J. Couper, one-fourth to F. M. Stowell, and one-fourth to C. L. Pillsbury, Minneapolis, Minn. Anchor for concrete construction. No. 1,022,826; Apr. 9; Sp. p. 2302; Gaz. vol. 177; p. 394.
Chatfield, George L. (See Bradford and Chatfield.)
Chatham, Sheldon C., Philadelphia, Pa. Bed-spring. No. 1,023,721; Apr. 16; Sp. p. 4141; Gaz. vol. 177; p. 727.
Chatillon, George E., New York, N. Y. Index device. No. 1,028,540; June 4; Sp. p. 1038; Gaz. vol. 179; p. 158.
Chatillon, Joseph E. L., Hull, Quebec, Canada. Faucet No. 1,015,297; Jan. 23; Sp. p. 4870; Gaz. vol. 174; p. 843.
Chatillon, Ralph F., New York, N. Y. Balance. No. 1,017,137; Feb. 13; Sp. p. 2025; Gaz. vol. 175; p. 348.
Chaumat, Achille, Fresnoy-le-Grand, assignor to Compagnie Francaise des Applications de la Cellulose, Paris, France. Manufacture of cellulose products. No. 1,027,689; May 28; Sp. p. 5691; Gaz. vol. 178; p. 991.
Chaumeret, Georges, Gennevilliers, France. Switch-operating mechanism. No. 1,017,851; Feb. 20; Sp. p. 3582; Gaz. vol. 175; p. 628.
Chausse, Francis W., Portland, Oreg. Sash-lock. No. 1,020,637; Mar. 19; Sp. p. 3475; Gaz. vol. 176; p. 613.
Chauvin, Raphaël F. O., and R. Arnoux, Paris, France. Apparatus for registering the consumption of liquid fuel. No. 1,043,669; Nov. 5; Gaz. vol. 184; p. 221.
Chavanne, Irénée A., Paris, France. Roller and breast mill. No. 1,036,798; Aug. 27; Gaz. vol. 181; p. 916.
Chaves, Jacob, Brooklyn, N. Y. Bed-bottom fabric. No. 1,021,504; Mar. 26; Sp. p. 5335; Gaz. vol. 176; p. 961.
Cheadle, George L., Jr., Austin, Ill. Railway-rail-fastening device. No. 1,020,264; Mar. 12; Sp. p. 2669; Gaz. vol. 176; p. 453.
Cheatham Electric Switching Device Company. (See Edwards, Ogden E., Jr., assignor.)
Cheatham, William P., Mackville, Ky. Cultivator-fender. No. 1,018,298; Feb. 20; Sp. p. 4564; Gaz. vol. 175; p. 783.
Check, John, Kokomo, Colo. Wood-carrier. No. 1,027,401; May 28; Sp. p. 5107; Gaz. vol. 178; p. 897.
Cheeseman, Alfred B. E., London, and J. G. Florence, Walthamstow, England. Internal-combustion engine of the revolving-cylinder type. No. 1,019,222; Mar. 5; Sp. p. 471; Gaz. vol. 176; p. 75.
Cheesman, James E., South Orange, N. J., assignor to Empire Duplex Gin Company, New York, N. Y. Apparatus for treating lint. No. 1,042,394; Oct. 29; Gaz. vol. 183; p. 1045.
Cheesman, James E., South Orange, N. J., assignor to Empire Duplex Gin Company, New York, N. Y. Apparatus for treating lint. No. 1,042,395; Oct. 29; Gaz. vol. 183; p. 1046.
Cheesman, James E., South Orange, N. J., assignor to Empire Duplex Gin Company, New York, N. Y. Lint-flue. No. 1,042,396; Oct. 29; Gaz. vol. 183; p. 1046.
Cheevers, Patrick T., Forest City, Pa. Railway-tie. No. 1,031,525; July 2; Gaz. vol. 180; p. 235.
Cheifetz, Morduch, Mozyr, assignor of one-half to Jankel-Aron Cheimowitsch Rabinowitsch, Wilna, Russia. Latitude instrument. No. 1,034,767; Aug. 6; Gaz. vol. 181; p. 123.
Cheley, Delbert I., Carnduff, Saskatchewan, Canada. Seed-drill. No. 1,038,852; Sept. 17; Gaz. vol. 182; p. 637.
Chelf, Lee R., *et al.* (See Bottom, Hartwell H., assignor.)
Chellis, Eugene D., Portland, Me., assignor, by mesne assignments, to National Metal Seal Corporation. Cap for bottles. No. 1,033,081; July 23; Gaz. vol. 180; p. 888.

Alphabetical list of patentees—Continued.

Chelsea Clock Company. (See Menns, Walter K., assignor.)
Chelton Electric Company. (See Machen, Charles H., assignor.)
Chemical Products Company. (See Mork, Harry S., assignor.)
Chemische Fabrik auf Actien (vorm. E. Schering). (See Dohrn, Max, assignor.)
Chemische Fabrik auf Actien (vorm. E. Schering). (See Dohrn and Thiele, assignors.)
Chemische Fabrik auf Actien (vorm. E. Schering). (See Thiele, Albrecht, assignor.)
Chemische Fabrik auf Actien (vorm. E. Schering). (See Zuelzer, Georg, assignor.)
Chemische Fabrik Coswig-Anhalt, G. m. b. H. (See Bornemann, Karl, assignor.)
Chemische Fabrik Flörsheim Dr. H. Noerdlinger. (See Caroselli, Arnaldo, assignor.)
Chemische Fabrik Gedeon Richter. (See Staněk, Vladimir, assignor.)
Chemische Fabrik Griesheim-Elektron. (See Fulda, Wilhelm, assignor.)
Chemische Fabrik Griesheim-Elektron. (See Grünstein, Nathan, assignor.)
Chemische Fabrik Griesheim-Elektron. (See Hoffmann and Suchy, assignors.)
Chemische Fabrik-Griesheim-Elektron. (See Laska, August L., assignor.)
Chemische Fabrik Griesheim - Elektron. (See Laska, Zitscher, and Kunert, assignors.)
Chemische Fabrik Griesheim-Elektron. (See Laska, Zitscher, and Rath, assignors.)
Chemische Fabrik Griesheim Elektron. (See Singer, Fritz, assignor.)
Chemische Fabrik Griesheim-Elektron. (See Specketer and Hofmann, assignors.)
Chemische Fabrik Griesheim Elektron *et al.* (See Weber, Oskar H. and K., assignors.)
Chemische Fabrik Griesheim - Elektron. (See Winther, Laska, and Zitscher, assignors.)
Chemische Fabrik Griesheim-Elektron. (See Zitscher and Rath, assignors.)
Chemische Fabrik Grünau Landshoff and Meyer, Aktiengesellschaft. (See Kirchner, Walter, assignor.)
Chemische Fabrik Güstrow. (See Krassa, Paul, assignor.)
Chemische Fabrik vormals Sandoz. (See Böniger, Melchior, assignor.)
Chemische Fabrik Westend. (See Hirschberg, Leon, assignor.)
Chemische Fabriken & Asphaltwerke Aktien-Gesellschaft. (See Artmann, Carl, assignor.)
Chemische Fabriken vorm. Weiler-ter Meer. (See Reinhardt and Hoerlin, assignors.)
Cheney, Herbert W., Norwood, Ohio. Floor-surfacing machine. No. 1,013,534; Jan. 2; Sp. p. 970; Gaz. vol. 174; p. 156.
Cheney, Herbert W., Milwaukee, Wis., assignor to Allis-Chalmers Company. High-potential relay. No. 1,023,503; Apr. 16; Sp. p. 3723; Gaz. vol. 177; p. 659.
Cheney, Herbert W., Milwaukee, Wis., assignor to Allis-Chalmers Company. Motor - operated switch. No. 1,028,993; June 11; Sp. p. 2014; Gaz. vol. 179; p. 347.
Cheney, Herbert W., assignor, to Allis-Chalmers Company, Milwaukee, Wis. Engineer's valve. No. 1,030,229; June 18; Sp. p. 4698; Gaz. vol. 179; p. 808.
Cheney, Herbert W., Milwaukee, Wis., assignor to Allis-Chalmers Company. Circuit-breaker. No. 1,030,568; June 25; Sp. p. 5550; Gaz. vol. 179; p. 968.
Cheney, Herbert W., Milwaukee, Wis., assignor to Allis-Chalmers Company. Controller. No. 1,030,569; June 25; Sp. p. 5551; Gaz. vol. 179; p. 969.
Cheney, Herbert W., Milwaukee, Wis., assignor to Allis-Chalmers Company. Motor - control system. No. 1,030,645; June 25; Sp. p. 5819; Gaz. vol. 179; p. 997.
Cheney, John W., assignor of one-half to A. J. Killeen, Los Angeles, Cal. Fruit-grating machine. No. 1,021,969; Apr. 2; Sp. p. 469; Gaz. vol. 177; p. 75.
Chenot, Augustus S. P., Belleville, Ill. Igniting-torch. No. 1,016,209; Jan. 30; Sp. p. 6810; Gaz. vol. 174; p. 1183.
Chenoweth, Allen S., Stilesville, Ind. Whiffletree-hook. No. 1,016,248; Feb. 6; Sp. p. 6; Gaz. vol. 175; p. 4.
Chernack Manufacturing Company. (See Smith, Charles S., assignor.)
Cherry-Driscoll Company. (See Cherry, William A., Jr., assignor.)
Cherry, Spencer A., Nashville, Tenn. Attachment for vehicle-wheels. No. 1,028,676; June 4; Sp. p. 1316; Gaz. vol. 179; p. 203.
Cherry, William A., Jr., White Plains, assignor to Cherry-Driscoll Company, New York, N. Y. Anchor for safety-belts. No. 1,026,562; May 14; Sp. p. 3222; Gaz. vol. 178; p. 532.
Cherry, William J. (See Kennedy, Robert S., assignor.)
Cherry, William J., New York, N. Y. Electric-light fixture. No. 1,046,972; Dec. 10; Gaz. vol. 185; p. 446.
Chesapeake Addressing Company, The. (See Hanrahan, John E., assignor.)
Chesky, Stanley, Flinton, Pa. Ice - velocipede. No. 1,041,591; Oct. 15; Gaz. vol. 183; p. 710.
Chessler, Harry, New York, N. Y. Sofa-bed of the davenport style. No. 1,028,541; June 4; Sp. p. 1040; Gaz. vol. 179; p. 158.
Chester B. Albree Iron Works Company. (See Albree, Chester B., assignor.)
Chester, Carolyn O., New York, N. Y. Paper doll. No. 1,026,624; May 14; Sp. p. 3359; Gaz. vol. 178; p. 554.
Chester, Christian L., Monessen, Pa. Torch. No. 1,023,622; Apr. 16; Sp. p. 3975; Gaz. vol. 177; p. 698.
Chester, Clarance H., Lebanon, Pa. Drinking-trough. No. 1,019,133; Mar. 5; Sp. p. 281; Gaz. vol. 176; p. 44.
Chester, Frank E., Providence, R. I. Ball. No. 1,023,504; Apr. 16; Sp. p. 3725; Gaz. vol. 177; p. 659.
Chestnut, Daniel, Philadelphia, Pa. Apparatus for treating skins. No. 1,017,852; Feb. 20; Sp. p. 3583; Gaz. vol. 175; p. 628.
Chestnut, William T. (See Kilburn, Fairley, Kidner, Irvine, and Chestnut.)
Chevrolet, Louis, and E. Planche, assignors to Chevrolet Motor Company, Detroit, Mich. Control-lever for automobiles. No. 1,022,401; Apr. 9; Sp. p. 1355; Gaz. vol. 177; p. 248.
Chevrolet Motor Company. (See Chevrolet and Planche, assignors.)
Chewning, Stapleton S., New Berlin, assignor to Borden's Condensed Milk Company, New York, N. Y. Means for regulating the feed of solder in can-soldering machines. No. 1,022,770; Apr. 9; Sp. p. 2188; Gaz. vol. 177; p. 375.
Chi-Ill Electric Company. (See Silbert, Gustaf I., assignor.)
Chicago Belting Company. (See Horsman, Thomas, assignor.)
Chicago Car Door Company. (See Hill, Edward A., assignor.)
Chicago Car Heating Company. (See Manchester, Thomas H., assignor.)
Chicago Carton Company. (See Richardson, Ralph R., assignor.)
Chicago Coach & Carriage Co. (See Webster, James, assignor.)
Chicago Feather Duster Company. (See Ransom, Albert, assignor.)
Chicago Fireproof Covering Company. (See Todd and Mayr, assignors.)
Chicago Flexible Shaft Company. (See La Chance, Leander H., assignor.)
Chicago Flexible Shaft Company. (See McArdle, Michael W., assignor.)
Chicago Fuse Manufacturing Company. (See Appleton, Albert I., assignor.)
Chicago Lino-Tabler Company. (See Stevenson, Ashton G., assignor.)
Chicago Lubricator Company, The. (See Edwards, Frank W., assignor.)
Chicago Lubricator Company, The. (See Edwards, Frank W., assignor.) (Reissue.)
Chicago Metal Weather Strip Company. (See Hedberg, Peter L., assignor.)
Chicago Miniature Lamp Works. (See Gast, Adolph W., assignor.)
Chicago Octagon Rotary Engine Company. (See Leiger, George F., assignor.)
Chicago Pneumatic Tool Company. (See Boyer, Joseph, assignor.)
Chicago Pneumatic Tool Company. (See Hayes, George H., assignor.) (Reissue.)
Chicago Pneumatic Tool Company. (See Mackie and Doyle, assignors.)
Chicago Pneumatic Tool Company. (See Meissner, Edward C., assignor.)
Chicago Pneumatic Tool Company. (See Pickles, Charles K., assignor.)
Chicago Pneumatic Tool Company. (See Westaway, Walter C., assignor.)
Chicago Railway Equipment Company. (See Busse and Harrison, assignors.)
Chicago Railway Equipment Company. (See Cornwall, Frederick R., assignor.)
Chicago Railway Equipment Company. (See Harrison, Philip B., assignor.)
Chicago Railway Equipment Company. (See Le Beau, Ernest A., assignor.)
Chicago Railway Equipment Company. (See Robischung, Henry B., assignor.)
Chicago Railway Equipment Company. (See Walker and Busse, assignors.)
Chicago Railway Equipment Company. (See White, Edward L., assignor.)
Chicago Railway Equipment Company. (See Williams, Charles H., Jr., assignor.)
Chicago Railway Equipment Company. (See Ziemss, Henry, Jr., assignor.)
Chicago Spring Butt Company. (See Keene, William J., assignor.)
Chick, Walter, Dayton, Ky., assignor to United Shoe Machinery Company, Paterson, N. J. Lasting-machine. No. 1,022,402; Apr. 9; Sp. p. 1356; Gaz. vol. 177; p. 248.
Chickering, Clifford C., Chicago, Ill. Piano. No. 1,034,082; July 30; Gaz. vol. 180; p. 1255.

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Chickering, Frank W., Hardwick, Vt. Ladder-brad. No. 1,015,940; Jan. 30; Sp. p. 6265; Gaz. vol. 174; p. 1091.
Chickering, Frank W., Hardwick, Vt. Ladder-hook. No. 1,018,877; Feb. 27; Sp. p. 5868; Gaz. vol. 175; p. 1012.
Chiger, Siegmund, Berlin, Germany. Electric time-switch. No. 1,031,040; July 2; Gaz. vol. 180; p. 67.
Chiger, Siegmund, Berlin, Germany. Apparatus for sorting and testing coins. No. 1,038,293; Sept. 10; Gaz. vol. 182; p. 407.
Chila, Mike, Whiting, Ind. Tie and rail-fastener. No. 1,026,657; May 21; Sp. p. 3454; Gaz. vol. 178; p. 602.
Childress, Edward J., Altavista, Va. Curtain-bracket. No. 1,034,977; Aug. 6; Gaz. vol. 181; p. 193.
Childress, William S., Kansas City, Mo. Safety hat-pin. No. 1,020,384; Mar. 12; Sp. p. 2906; Gaz. vol. 176; p. 492.
Childs, Alfred L., *et al.* (See Frost, Walter E., assignor.)
Childs, Clarence N., Lowell, Mass. Yarn-clearer. No. 1,026,907; May 21; Sp. p. 4010; Gaz. vol. 178; p. 689.
Childs, Clarence N., Lowell, Mass. Instep-arch support. No. 1,036,452; Aug. 20; Gaz. vol. 181; p. 767.
Childs, David H., Alfred, N. Y. Producing aluminum fluorid. No. 1,036,453; Aug. 20; Gaz. vol. 181; p. 767.
Childs, David H., Alfred, N. Y. Producing alumina. No. 1,036,454; Aug. 20; Gaz. vol. 181; p. 767.
Childs, Earl T., Coraopolis, Pa. Drawing instrument. No. 1,023,242; Apr. 16; Sp. p. 3205; Gaz. vol. 177; p. 574.
Childs, Jesse, Russellton, assignor of one-half to J. McHarg, Harmarville, Pa. Sifter and separator. No. 1,024,249; Apr. 23; Sp. p. 5351; Gaz. vol. 177; p. 938.
Childs, Wallace S., Protection, assignor of one-half to H. E. Richardson, Eden, N. Y. Milk-can or the like. No. 1,042,084; Oct. 22; Gaz. vol. 183; p. 916.
Child's Welfare Company, The. (See Robbins, Alice G., assignor.)
Child's Welfare Garment Company, The. (See Fanta, Arnold A., assignor.)
Childs, Wilbur T., assignor of one-half to F. Nolte and one-half to M. D. Kuhlke, Akron, Ohio. Core for manufacturing pneumatic-tire shoes. No. 1,031,983; July 9; Gaz. vol. 180; p. 435.
Childs, Willard T., Springfield, Mass. Street-car advertising-sign. No. 1,031,169; July 2; Gaz. vol. 180; p. 114.
Chilton, Edwin J., Kuripuni, Masterton, assignor to Chilton Flusher Company Limited, Auckland, New Zealand. Sanitary flushing apparatus. No. 1,038,294; Sept. 10; Gaz. vol. 182; p. 407.
Chilton Flusher Company Limited. (See Chilton, Edwin J., assignor.)
Chilton, Henry J., Chicago, Ill. Bottle filling and capping machine. No. 1,016,611; Feb. 6; Sp. p. 879; Gaz. vol. 175; p. 131.
Chilton, Henry J., Chicago, Ill. Bottle-handling apparatus. No. 1,043,066; Nov. 5; Gaz. vol. 184; p. 5.
Chinn, Emmett. (See Fischer and Chinn.)
Chinn, Erle W., and J. T. Harris, Columbia, Mo. Road-scraper. No. 1,023,068; Apr. 9; Sp. p. 2798; Gaz. vol. 177; p. 476.
Chinter, William, Connellsville, Pa. Slat-holder for bedsteads. No. 1,014,452; Jan. 9; Sp. p. 3021; Gaz. vol. 174; p. 501.
Chipley, William G., Atlanta, Ga. Cross-tie. No. 1,030,230; June 18; Sp. p. 4700; Gaz. vol. 179; p. 808.
Chipley, William G., Atlanta, Ga. Cross-tie. No. 1,040,145; Oct. 1; Gaz. vol. 183; p. 159.
Chipley, William G., Atlanta, Ga. Cross-tie. No. 1,040,146; Oct. 1; Gaz. vol. 183; p. 160.
Chipley, William G., New Orleans, La. Tire. No. 1,041,739; Oct. 22; Gaz. vol. 183; p. 797.
Chipperfield, George F., *et al.* (See Hoskins, Clanmar P., assignor.)
Chipps, Willis C., Suffern, assignor to E. H. Fallows, New York, N. Y. Back for brake-shoes. No. 1,033,304; July 23; Gaz. vol. 180; p. 967.
Chipps, Willis C., Suffern, assignor to E. H. Fallows, New York, N. Y. Reinforced back for brake-shoes. No. 1,036,564; Aug. 27; Gaz. vol. 181; p. 838.
Chirade, Marc, and J. Canac, Paris, France. Direct nickeling of aluminium or alloys containing aluminium. No. 1,030,972; July 2; Gaz. vol. 180; p. 43.
Chisholm, Arthur A., and A. E. James, Boston, Mass. Device for chalking cue-tips. No. 1,034,421; Aug. 6; Gaz. vol. 181; p. 8.
Chisholm, Charles L., Marysville, New Brunswick, Canada, assignor to Chisholm Transmitter & Telephone Instruments Company. Telephone-receiver. No. 1,046,554; Dec. 10; Gaz. vol. 185; p. 303.
Chisholm Sales Company. (See Stattmann, Walter A., assignor.)
Chisholm Transmitter & Telephone Instruments Company. (See Chisholm, Charles L., assignor.)
Chittum, William L., Spring Hill, W. Va. Car-mover. No. 1,034,081; July 30; Gaz. vol. 180; p. 1254.
Chitty, Henry, Kenley, F. M. T. Lange, London, and G. W. Mascord, Barnes, England. Distribution of electromotive power. No. 1,020,025; Mar. 12; Sp. p. 2169; Gaz. vol. 176; p. 374.
Chlorine Products Company, The. (See McNitt, Robert J., assignor.)
Chmidling, August C., and J. W. Tincher, Lowemont, Kans. Wheeled ladder. No. 1,017,382; Feb. 13; Sp. p. 2545; Gaz. vol. 175; p. 431.
Cholewinski, Walenty, Oshkosh, Wis. Trap. No. 1,027,181; May 21; Sp. p. 4650; Gaz. vol. 178; p. 781.
Choné, Fritz, Berlin, Germany, assignor to Gebr. Märklin & Co., Göppingen, Germany. Drawing-room fountain. No. 1,049,050; Dec. 31; Gaz. vol. 185; p. 1261.
Choquette, Joseph, St. Hyacinthe, Quebec, Canada. Beer-saving apparatus. No. 1,031,838; July 9; Gaz. vol. 180; p. 386.
Chouffet, Charles F., Buffalo, N. Y. Advertising device. No. 1,035,418; Aug. 13; Gaz. vol. 181; p. 375.
Choumbrot, Max, Paris, France. Automatic emergency-brake. No. 1,023,623; Apr. 16; Sp. p. 3977; Gaz. vol. 177; p. 698.
Chounard, Philip, Pembina, N. D. Road-grader attachment. No. 1,015,004; Jan. 16; Sp. p. 4278; Gaz. vol. 174; p. 718.
Choynacki, Adam, Detroit, Mich. Bottle-stopper. No. 1,031,322; July 2; Gaz. vol. 180; p. 167.
Chrane, Theodore F., Gravette, Ark. Tire-tightener. No. 1,041,026; Oct. 15; Gaz. vol. 183; p. 523.
Chrestensen, Christian P., Philadelphia, Pa., assignor to The Ridgely Trimmer Company, Springfield, Ohio. Paper-cutter. No. 1,014,567; Jan. 9; Sp. p. 3221; Gaz. vol. 174; p. 536.
Chrisman, Horace, Edgewood, Pa., assignor to Pittsburg Meter Company. Water-meter. No. 1,031,689; July 9; Gaz. vol. 180; p. 334.
Christ, Henry K. (See Christ, Isaac and H. K.)
Christ, Isaac, Tamaqua, and H. K. Christ, Mahanoy City, Pa. Separating apparatus. No. 1,030,231; June 18; Sp. p. 4701; Gaz. vol. 179; p. 809.
Christensen, Andrew, Tillamook, Oreg. Agitator for cheese-making. No. 1,026,973; May 21; Sp. p. 4172; Gaz. vol. 178; p. 712.
Christensen, Andrew B., and F. Vondrasek, assignors to The Thistle Manufacturing Company, Chicago, Ill. Gearing for laundry machinery. No. 1,025,684; May 7; Sp. p. 1278; Gaz. vol. 178; p. 198.
Christensen, Andrew B., and F. Vondrasek, assignors to The Thistle Manufacturing Company, Chicago, Ill. Gearing for laundry machinery. No. 1,025,685; May 7; Sp. p. 1283; Gaz. vol. 178; p. 199.
Christensen, Andrew C., Des Moines, Iowa. Reaping attachment for mowing-machines. No. 1,025,862; May 7; Sp. p. 1655; Gaz. vol. 178; p. 260.
Christensen, Carl, Bradley, assignor, by mesne assignments, to Sears, Roebuck & Company, Chicago, Ill. Agricultural implement. No. 1,018,351; Feb. 20; Sp. p. 4657; Gaz. vol. 175; p. 800.
Christensen, Carl, Bradley, Ill., and C. W. Noonen, Council Bluffs, Iowa, assignors, by mesne assignments, to Sears, Roebuck & Company, Chicago, Ill. Cultivator. No. 1,043,202; Nov. 5; Gaz. vol. 184; p. 56.
Christensen, Christoffer A., Portland, Oreg. Centrifugal ore and slime concentrator. No. 1,018,878; Feb. 27; Sp. p. 5869; Gaz. vol. 175; p. 1013.
Christensen, Emil, Portland, Oreg. Packing. No. 1,031,323; July 2; Gaz. vol. 180; p. 167.
Christensen, Jens C., and R. A. F. L. Anderberg, New York, N. Y. Rotary internal-explosion engine. No. 1,027,182; May 21; Sp. p. 4652; Gaz. vol. 178; p. 781.
Christensen, John, Evans City, Pa. Trolley-wire hanger. No. 1,048,656; Dec. 31; Gaz. vol. 185; p. 1124.
Christensen, Martin S., Hereford, S. D. Governor-regulator. No. 1,047,747; Dec. 17; Gaz. vol. 185; p. 751.
Christensen, Niels A., Milwaukee, Wis. Friction-clutch. No. 1,036,074; Aug. 20; Gaz. vol. 181; p. 634.
Christensen, Norman V. (See Jackson, Andrew J., assignor.)
Christensen, Petter, Kingsville, Tex. Cranking device. No. 1,037,129; Aug. 27; Gaz. vol. 181; p. 1027.
Christensen, Walter W., Portland, Oreg. Bath-tub cover. No. 1,045,947; Dec. 3; Gaz. vol. 185; p. 52.
Christenson, Anton, assignor to Aurora Metal Company, Aurora, Ill. Metallic packing. No. 1,048,657; Dec. 31; Gaz. vol. 185; p. 1125.
Christenson, George, New York, N. Y., assignor to H. W. Johns-Manville Company. Loose-spring piston-packing expander. No. 1,023,813; Apr. 23; Sp. p. 4343; Gaz. vol. 177; p. 785.
Christenson, George, New York, N. Y., assignor to H. W. Johns-Manville Company. Piston-packing expander. No. 1,023,814; Apr. 23; Sp. p. 4345; Gaz. vol. 177; p. 786.
Christenson, George, New York, N. Y., assignor to H. W. Johns-Manville Company. Machine for attaching hose-clamps. No. 1,039,096; Sept. 24; Gaz. vol. 182; p. 733.
Christenson, George, Nevada, Mo., assignor to H. W. Johns-Manville Company. Die. No. 1,041,960; Oct. 22; Gaz. vol. 183; p. 874.
Christenson, Roy. (See Madson, Christenson, Ingbretson, and Nowship.)
Christian, Carl, Cleburne, Tex. Lunch-box. No. 1,043,203; Nov. 5; Gaz. vol. 184; p. 56.
Christian, Columbus H., Atlanta, and E. H. Hutcheson, Augusta, Ga. Railway-crossing. No. 1,015,541; Jan. 23; Sp. p. 5403; Gaz. vol. 174; p. 926.

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Christian, Frederick N., Tauranga, New Zealand. Means for drawing liquid from receptacles. No. 1,028,542; June 4; Sp. p. 1042; Gaz. vol. 179; p. 158.
Christian, Robert N., Chicago, Ill. Bed-fan. No. 1,046,265; Dec. 3; Gaz. vol. 185; p. 163.
Christiana, Elmer V., Kingston, N. Y. Vise for holding vehicle-lamps. No. 1,016,914; Feb. 6; Sp. p. 1506; Gaz. vol. 175; p. 233.
Christians, George W., New York, N. Y. Electric fuse. No. 1,028,328; June 4; Sp. p. 574; Gaz. vol. 179; p. 86.
Christiansen, Carl, Vancouver, British Columbia, Canada. Annunciator. No. 1,038,724; Sept. 17; Gaz. vol. 182; p. 592.
Christiansen, Christian, Kenmare, N. D. Hub for vehicle-wheels. No. 1,013,743; Jan. 2; Sp. p. 1447; Gaz. vol. 174; p. 227.
Christiansen, Christian, Kenmare, N. D. Hay rake and loader. No. 1,029,790; June 18; Sp. p. 3737; Gaz. vol. 179; p. 658.
Christiansen, Christian, assignor of one-half to L. Fredrickson, Kenmare, N. D. Hay and shock loader. No. 1,029,791; June 18; Sp. p. 3740; Gaz. vol. 179; p. 658.
Christiansen, Friedrich, Kiel, Germany. Device for calming waves. No. 1,035,689; Aug. 13; Gaz. vol. 181; p. 466.
Christiansen, Hans, Boston, assignor to Bedford Safety Razor Company, Bedford, Mass. Safety-razor. No. 1,017,138; Feb. 13; Sp. p. 2025; Gaz. vol. 175; p. 348.
Christiansen, Hans, assignor to Bedford Safety Razor Company, Bedford, Mass. Blade honing or sharpening machine. No. 1,034,422; Aug. 6; Gaz. vol. 181; p. 8.
Christiansen, Ludwig, Lynn, Mass. Door-guard for elevators. No. 1,039,097; Sept. 24; Gaz. vol. 182; p. 734.
Christianson, Andrew, Butler, assignor to Standard Steel Car Company, Pittsburgh, Pa. Door-operating device for cars. (Reissue.) No. 13,362; Jan. 16; Sp. p. 4818; Gaz. vol. 174; p. 811.
Christianson, Andrew, Butler, assignor to Standard Steel Car Co., Pittsburgh, Pa. Car-door-operating device. No. 1,019,023; Mar. 5; Sp. p. 19; Gaz. vol. 176; p. 6.
Christianson, Andrew, Butler, assignor to Standard Steel Car Company, Pittsburgh, Pa. Car-door-operating mechanism. No. 1,021,351; Mar. 26; Sp. p. 4973; Gaz. vol. 176; p. 907.
Christianson, Andrew, Butler, assignor to Standard Steel Car Co., Pittsburgh, Pa. Door-releasing mechanism. No. 1,044,491; Nov. 19; Gaz. vol. 184; p. 564.
Christianson, Hans P., assignor of one-half to A. J. Hanford, Oakland, Cal. Time-controlled circuit-closer. No. 1,037,130; Aug. 27; Gaz. vol. 181; p. 1027.
Christianson, Hans P., assignor of one-half to A. J. Hanford, Oakland, Cal. Alarm-bell. No. 1,040,974; Oct. 8; Gaz. vol. 183; p. 472.
Christianson, Hans P., assignor of one-half to A. J. Hanford, Oakland, Cal. Circuit-closer. No. 1,043,755; Nov. 5; Gaz. vol. 184; p. 250.
Christianson, Oscar, Sugar Grove, Ill. Adjustable pulverizer. No. 1,017,383; Feb. 13; Sp. p. 2547; Gaz. vol. 175; p. 431.
Christianson, William M., Portland, Oreg. Nut-lock. No. 1,029,103; June 11; Sp. p. 2252; Gaz. vol. 179; p. 384.
Christie, Edward J. C. (See Maxwell and Christie.)
Christie, Elza J., Marion, Iowa. Means for converting vapor energy into work. No. 1,016,210; Jan. 30; Sp. p. 6811; Gaz. vol. 174; p. 1184.
Christie, Reginald, London, England. Device for protecting the ends and nuts of boiler-stays from the effects of heat. No. 1,046,973; Dec. 10; Gaz. vol. 185; p. 446.
Christine, John M., Braddock, Pa. Attachment for operating devices by reciprocating movements. No. 1,041,428; Oct. 15; Gaz. vol. 183; p. 658.
Christman, Edward. (See Jones and Christman.)
Christman, Henry W., Buffalo, N. Y. Animal-trap. No. 1,034,978; Aug. 6; Gaz. vol. 181; p. 193.
Christman, Matthias, assignor of one-third to H. L. Bissett and one-third to G. A. McLaughlin, Springfield, Mo. Wheel-hub plate. No. 1,020,885; Mar. 19; Sp. p. 3998; Gaz. vol. 176; p. 697.
Christman, Matthias, assignor of one-third to H. L. Bissett and one-third to G. A. McLaughlin, Springfield, Mo. Hub-plate for wheels. No. 1,028,677; June 4; Sp. p. 1317; Gaz. vol. 179; p. 203.
Christmann, John J. (See Pim and Christmann.)
Christmann, Michael, Leadville, Colo. Mechanical movement. No. 1,013,276; Jan. 2; Sp. p. 406; Gaz. vol. 174; p. 66.
Christoffersen, Christoffer, Philadelphia, Pa. Rotary engine. No. 1,019,223; Mar. 5; Sp. p. 477; Gaz. vol. 176; p. 76.
Christofferson, Christian A., St. Paul, Minn., assignor to General Railway Signal Company, Gates, N. Y. Insulating tie-bar. No. 1,023,923; Apr. 23; Sp. p. 4622; Gaz. vol. 177; p. 822.
Christopher, Calvin F., Asheville, N. C. Computing-scale. No. 1,042,321; Oct. 22; Gaz. vol. 183; p. 993.
Christopher, Calvin F., assignor of one-half to W. M. Jones and one-half to N. Buckner, Asheville, N. C. Metallic clothes-line. No. 1,041,027; Oct. 15; Gaz. vol. 183; p. 523.
Christopher, Eugene, Urbana, Ill. Fertilizer-distributer. No. 1,022,062; Apr. 2; Sp. p. 659; Gaz. vol. 177; p. 105.
Christopher, George W., Elizabeth, N. J., and W. C. L. Evans, New York, N. Y. Vehicle-top raiser. No. 1,034,423; Aug. 6; Gaz. vol. 181; p. 9.
Christopher, William, Tonawanda, N. Y. Non-refillable bottle. No. 1,047,748; Dec. 17; Gaz. vol. 185; p. 751.
Christopher, William E., Thomas, assignor of one-half to J. R. Wilkerson, Ensley, Ala. Steering mechanism. No. 1,024,182; Apr. 23; Sp. p. 5191; Gaz. vol. 177; p. 912.
Christopher, William M., Tonawanda, N. Y. Broom. No. 1,048,469; Dec. 24; Gaz. vol. 185; p. 1021.
Christophersen, Herbert, East Orange, N. J., assignor to New York Oilless Bearing Company, New York, N. Y. Roller-bearing. No. 1,045,814; Dec. 3; Gaz. vol. 185; p. 6.
Christopherson, Louis B., San Jose, Cal. Drapery and grille structure. No. 1,016,211; Jan. 30; Sp. p. 6813; Gaz. vol. 174; p. 1184.
Chritton, James M., Rocky Ford, Colo. Hat-pin fastener and point protector. No. 1,044,989; Nov. 19; Gaz. vol. 184; p. 738.
Chrome Steel Works. (See Canda, Ferdinand E., assignor.)
Chrome Steel Works. (See Canda, Ferdinand M., assignor.)
Chronis, Aris D., Dusseldorf, assignor to Rheinische Metallwaaren- und Maschinenfabrik, Dusseldorf-Derendorf, Germany. Breech-block mechanism for firearms or guns. No. 1,043,670; Nov. 5; Gaz. vol. 184; p. 221.
Chryst, William A. (See Kettering and Chryst.)
Chubbock, Orlo P., assignor to Avery Company, Peoria, Ill. Set-screw guard. No. 1,038,085; Sept. 10; Gaz. vol. 182; p. 338.
Chubbuck, Aaron F., Grand Rapids, Mich. Internal-combustion engine. No. 1,042,322; Oct. 22; Gaz. vol. 183; p. 993.
Chubbuck, Samuel J., assignor to The Consolidated Manufacturing Company, Toledo, Ohio. Handle-grip control for motor-cycles or the like. No. 1,019,304; Mar. 5; Sp. p. 671; Gaz. vol. 176; p. 104.
Chudleigh, John, Haberfield, and J. W. Fell, Sydney, New South Wales, Australia. Air-brake valve. No. 1,043,803; Nov. 12; Gaz. vol. 184; p. 297.
Chudrik, Wicenti. (See Schclecki and Chudrik.)
Chulick, Mike, Marianna, Pa. Rail-joint. No. 1,035,857; Aug. 20; Gaz. vol. 181; p. 560.
Church, Albert E., New Britain, Conn. Machine-chuck. No. 1,013,373; Jan. 2; Sp. p. 627; Gaz. vol. 174; p. 99.
Church, Charles F., Brooklyn, N. Y. Holding device. No. 1,041,028; Oct. 15; Gaz. vol. 183; p. 523.
Church, Charles N., Camden, N. J. Telephone-receiver. No. 1,030,872; July 2; Gaz. vol. 180; p. 8.
Church, Dennis. (See De Smith and Church.)
Church, Edmund S., Dayton, assignor to The Toledo Computing Scale Company, Toledo, Ohio. Weight-measuring instrument. No. 1,013,641; Jan. 2; Sp. p. 1196; Gaz. vol. 174; p. 191.
Church, Edmund S., assignor to The National Cash Register Company, Dayton, Ohio. Cash and credit register. No. 1,036,565; Aug. 27; Gaz. vol. 181; p. 838.
Church, Edmund S., Chicago, Ill., assignor to The National Cash Register Company, Dayton, Ohio. Adding-machine. No. 1,045,258; Nov. 26; Gaz. vol. 184; p. 860.
Church, Edmund S., assignor to The National Cash Register Company, Dayton, Ohio. Cash-register. No. 1,047,749; Dec. 17; Gaz. vol. 185; p. 751.
Church, Elton C., Providence, R. I. Nut-lock. No. 1,048,039; Dec. 24; Gaz. vol. 185; p. 876.
Church, George W., *et al.* (See Jarvis, Herbert L., assignor.)
Church, Joseph W., San Francisco, Cal. Means for recovering stranded ships. No. 1,022,771; Apr. 9; Sp. p. 2190; Gaz. vol. 177; p. 376.
Church, William G., Hartford, Conn. Tool-holder. No. 1,041,592; Oct. 15; Gaz. vol. 183; p. 711.
Churchill, Charles W. (See Anderson, Harold B., assignor.)
Churchill, Grant W., Sacramento, Cal. Channeling-machine for waterways. No. 1,032,043; July 9; Gaz. vol. 180; p. 455.
Churchill, James, Centralia, Wash. Working-glove. No. 1,021,238; Mar. 26; Sp. p. 4745; Gaz. vol. 176; p. 866.
Churchill, Myron R. (See Milne, Taylor, and Churchill.)
Churchill-Shann, Montague H., county of Surrey, England. Turbine. No. 1,038,295; Sept. 10; Gaz. vol. 182; p. 408.
Churchill, William, Corning, N. Y. Headlight. No. 1,034,873; Aug. 6; Gaz. vol. 181; p. 160.
Churchill, William, assignor to Corning Glass Works, Corning, N. Y. Lens. No. 1,033,780; July 30; Gaz. vol. 180; p. 1146.
Church, William W., Rock Island, Ill. Adjustable clinker-shovel. No. 1,046,974; Dec. 10; Gaz. vol. 185; p. 447.
Churchill, William, assignor to Corning Glass Works, Corning, N. Y. Lens. No. 1,033,781; July 30; Gaz. vol. 180; p. 1147.
Churchill, William, assignor to Corning Glass Works, Corning, N. Y. Signaling-lens. No. 1,033,782; July 30; Gaz. vol. 180; p. 1147.

Alphabetical list of patentees—Continued.

Churchill, William, assignor to Corning Glass Works, Corning, N. Y. Lantern-globe. No. 1,041,740; Oct. 22; Gaz. vol. 183; p. 798.
Churgay, Louis A., Buffalo, N. Y., assignor to Sears, Roebuck and Co., Chicago, Ill. School furniture. No. 1,042,397; Oct. 29; Gaz. vol. 183; p. 1046.
Churgay, Louis A., assignor to Sears, Roebuck and Co., Chicago, Ill. School furniture. No. 1,044,745; Nov. 19; Gaz. vol. 184; p. 653.
Ciesla, John. (See Becker and Ciesla.)
Cieutat, Charles J., New Orleans, La. Stave-column. No. 1,041,741; Oct. 22; Gaz. vol. 183; p. 798.
Cinalli, Domenick, Philadelphia, Pa. Combination chair and couch. No. 1,041,961; Oct. 22; Gaz. vol. 183; p. 875.
Cincinnati Bickford Tool Company, The. (See Norris, Henry M., assignor.)
Cincinnati Butcher's Supply Company, The. (See Naegelen, Charles, assignor.)
Cincinnati Galvanizing Company. (See Schott, Louis, assignor.)
Cincinnati Lathe & Tool Company, The. (See Perrine, John R., assignor.)
Cincinnati Milling Machine Company, The. (See De Leeuw, Adolph L., assignor.)
Cincinnati Planer Company. (See Langen and Meier, assignors.)
Cincinnati Planer Company, The. (See Reston, Henry P., assignor.)
Cincinnati Precision Lathe Co., The. (See Tatman, James M., assignor.)
Cincinnati Shaper Company, The. (See Murray, Aristides R., assignor.)
Cincinnati Time Recorder Company, The. (See Morrison, James, assignor.)
Ciociola, Gabriel, Leavenworth, Kans. Legging. No. 1,028,329; June 4; Sp. p. 574; Gaz. vol. 179; p. 86.
Cipriano, Gandolfo, New York, N. Y. Hat-pressing machine. No. 1,044,746; Nov. 19; Gaz. vol. 184; p. 654.
Cirigliano, Giovanni B., Turin, Italy. Music-recorder. No. 1,026,908; May 21; Sp. p. 4011; Gaz. vol. 178; p. 689.
Cisler, Arthur, *et al.* (See Bauer, Clarence E., assignor.)
Clabby, James T. (See Smith and Clabby.)
Claes, Paul, Brussels, Belgium. Agglomerating materials. No. 1,034,203; July 30; Gaz. vol. 180; p. 1295.
Clamer, Guilliam H., Philadelphia, Pa. Iron-nickel-copper alloy. No. 1,016,549; Feb. 6; Sp. p. 747; Gaz. vol. 175; p. 110.
Clancy, Peter, St. Paul, Minn. Plow. No. 1,030,282; June 25; Sp. p. 4837; Gaz. vol. 179; p. 865.
Clapham, Fred, Glen Mills, Pa. Electric-light-socket handle. No. 1,024,311; Apr. 23; Sp. p. 5462; Gaz. vol. 177; p. 957.
Clapp, Albert L., Braintree, assignor to Hide-Ite Leather Company, Boston, Mass. Production of leather-board stock. No. 1,021,660; Mar. 26; Sp. p. 5622; Gaz. vol. 176; p. 1011.
Clapp, Albert L., Braintree, assignor to Hide-Ite Leather Company, Boston, Mass. Production of stock for leather-board. No. 1,033,538; July 23; Gaz. vol. 180; p. 1042.
Clapp, Albert L., Braintree, assignor, by mesne assignments, to A. L. Cutler, Boston, Mass. Puffed paper imitating felt and making the same. No. 1,038,086; Sept. 10; Gaz. vol. 182; p. 338.
Clapp, Albert L., Braintree, assignor to Hideite Leather Company, Boston, Mass. Producing stock for making leather-board. No. 1,046,555; Dec. 10; Gaz. vol. 185; p. 303.
Clapp, Cassius M. (See Burnett, Charles E., assignor.)
Clapp, George E., Kalamazoo, Mich. Oil-burner. No. 1,020,265; Mar. 12; Sp. p. 2670; Gaz. vol. 176; p. 454.
Clapp, George E., Kalamazoo, Mich. Burning liquid fuel. No. 1,020,266; Mar. 12; Sp. p. 2674; Gaz. vol. 176; p. 454.
Clapp, Harold W., Berkeley, and B. C. Edgar, San Francisco, Cal. Convertible-tread wheel. No. 1,039,898; Oct. 1; Gaz. vol. 183; p. 77.
Clapp, Theodore V., Springfield, Mass. Animal-trap. No. 1,044,350; Nov. 12; Gaz. vol. 184; p. 486.
Clappart, Emile E. (See Elliott and Clappart.)
Clare, James P., Stratham, N. H. Secondary or storage battery. No. 1,017,080; Feb. 13; Sp. p. 1914; Gaz. vol. 175; p. 328.
Clare, James P., Stratham, N. H. Tire for vehicles. No. 1,033,229; July 23; Gaz. vol. 180; p. 941.
Clare, James P., Stratham, N. H. Making tires for vehicles. No. 1,033,230; July 23; Gaz. vol. 180; p. 941.
Claremont, Ernest A. (See Stratton and Claremont.)
Clarinda Lawn Mower Company. (See Hudson, Fred A., assignor.)
Clark, Albert B., Hamburg, N. Y. Caster-wheel. No. 1,037,866; Sept. 10; Gaz. vol. 182; p. 263.
Clark, Albert C., assignor to A. C. Clark & Company, Chicago, Ill. Dental cuspidor. No. 1,049,207; Dec. 31; Gaz. vol. 185; p. 1313.
Clark, Albert C., assignor to A. C. Clark & Company, Chicago, Ill. Combined cuspidor and washbasin. No. 1,049,290; Dec. 31; Gaz. vol. 185; p. 1342.
Clark, Alexander. (See Burgess and Clark.)
Clark, Alexander, Govan, and J. J. Ferguson, Glasgow, Scotland. Means for use in heating, pumping, and circulating water and other fluids. No. 1,041,429; Oct. 15; Gaz. vol. 183; p. 659.
Clark, Alfred L., Dubuque, Iowa. Truck. No. 1,037,131; Aug. 27; Gaz. vol. 181; p. 1027.
Clark, Amasa B., New York, N. Y. Pile-driving engine. No. 1,023,243; Apr. 16; Sp. p. 3206; Gaz. vol. 177; p. 574.
Clark, Andrew J., Dayton, Tenn. Advertising device. No. 1,016,212; Jan. 30; Sp. p. 6815; Gaz. vol. 174; p. 1184.
Clark, Arba G., Schenectady, N. Y., assignor, by mesne assignments, to The Union Switch and Signal Company. Signal. No. 1,038,296; Sept. 10; Gaz. vol. 182; p. 408.
Clark, Arnold, Latty, Ohio. Beet-blocking cultivator. No. 1,025,961; May 14; Sp. p. 1906; Gaz. vol. 178; p. 328.
Clark, Arthur I. (See King, Clifford G., assignor.)
Clark, Arthur P., assignor to Corrugated Bar Company, St. Louis, Mo. Concrete-reinforce. No. 1,043,204; Nov. 5; Gaz. vol. 184; p. 56.
Clark, Bennett F., assignor to The Standard Optical Company, Geneva, N. Y. Lens-grinding machine. No. 1,048,658; Dec. 31; Gaz. vol. 185; p. 1125.
Clark, Burton B. and W. A., New Haven, Conn. Mail-bag catcher and deliverer. No. 1,041,962; Oct. 22; Gaz. vol. 183; p. 875.
Clark, Byron G., Birmingham, England. Lacing-hook for boots and the like. No. 1,019,024; Mar. 5; Sp. p. 20; Gaz. vol. 176; p. 6.
Clark Car Company. (See Clark, Charles H., assignor.)
Clark, Carl M., assignor to S. Friedberger, Philadelphia, Pa. Driving mechanism for automobiles. No. 1,047,886; Dec. 17; Gaz. vol. 185; p. 798.
Clark, Charles A., Hartford, assignor to Trumbull Electric Manufacturing Company, Plainville, Conn. Push-button switch. No. 1,033,152; July 23; Gaz. vol. 180; p. 913.
Clark, Charles C., Guyandotte, W. Va. Electric gas-alarm. No. 1,024,061; Apr. 23; Sp. p. 4910; Gaz. vol. 177; p. 870.
Clark, Charles E. (See Cooper and Clark.)
Clark, Charles E., Wellsville, N. Y. Pumping-power. No. 1,017,739; Feb. 20; Sp. p. 3286; Gaz. vol. 175; p. 588.
Clark, Charles E., Durham, N. C. Yarn-sizing machine. No. 1,020,343; Mar. 12; Sp. p. 2820; Gaz. vol. 176; p. 478.
Clark, Charles F. (See Kiessig, Oscar, assignor.)
Clark, Charles H., Los Angeles, Cal. Safety hat and coat rack. No. 1,043,398; Nov. 5; Gaz. vol. 184; p. 126.
Clark, Charles H., Crafton, assignor to Clark Car Company, Pittsburgh, Pa. Dump-car. No. 1,018,165; Feb. 20; Sp. p. 4301; Gaz. vol. 175; p. 739.
Clark, Cornelius, Lodi, Cal. Portable shingle-rack. No. 1,016,935; Feb. 13; Sp. p. 1561; Gaz. vol. 175; p. 276.
Clark, Cornelius S., Norfolk, Va. Leak-stopper for boiler-tubes. No. 1,043,298; Nov. 5; Gaz. vol. 184; p. 89.
Clark, Cyril B., New Albany, Ind., assignor to B. F. Avery & Sons, Louisville, Ky. Fertilizer-distributer and planter. No. 1,027,593; May 28; Sp. p. 5489; Gaz. vol. 178; p. 960.
Clark, Cyril B., New Albany, Ind., assignor to B. F. Avery & Sons, Louisville, Ky. Fertilizer-distributer. No. 1,027,594; May 28; Sp. p. 5493; Gaz. vol. 178; p. 960.
Clark, Cyrus E., *et al.* (See Savignac and Myers, assignors.)
Clark Dredge Manufacturing Company, The. (See Clark, Horace J., assignor.)
Clark, Eddy N. (See Steller and Clark.)
Clark, Edward H. (See Newman, William R., assignor.)
Clark, Edward O., assignor of one-third to E. A. Moye, Spokane, Wash. Headlight for locomotives and motor-cars. No. 1,047,170; Dec. 17; Gaz. vol. 185; p. 543.
Clark, Edward O., assignor of one-third to E. A. Moye, Spokane, Wash. Automobile-headlight. No. 1,047,171; Dec. 17; Gaz. vol. 185; p. 544.
Clark, Edward W., Los Angeles, Cal. Stay-bolt. No. 1,029,104; June 11; Sp. p. 2252; Gaz. vol. 179; p. 385.
Clark, Edwyn. (See Russell and Clark.)
Clark, Elisha W., St. Petersburg, Fla. Door-check. No. 1,041,430; Oct. 15; Gaz. vol. 183; p. 659.
Clark, Elizabeth M., and J. D. Oliphant, Cleveland, Ohio. Attachment for sewing-machines. No. 1,044,492; Nov. 19; Gaz. vol. 184; p. 564.
Clark, Ellsworth A., and W. H. Davis, Boulder, Colo. Helixoidal combined ore-roasting furnace and cooling-hearth. No. 1,029,667; June 18; Sp. p. 3458; Gaz. vol. 179; p. 614.
Clark, Elmer H., Sheldon, Iowa. Attachment for mail-boxes. No. 1,013,128; Jan. 2; Sp. p. 79; Gaz. vol. 174; p. 14.
Clark, Elvira M. (See Davis, John J., assignor.)
Clark, Ernest G., De Kalb, Ill. Machine for rectifying perforated music and masters. No. 1,035,154; Aug. 13; Gaz. vol. 181; p. 281.
Clark, Eugene B., assignor to Celfor Tool Company, Chicago, Ill. Drilling apparatus. No. 1,018,096; Feb. 20; Sp. p. 4157; Gaz. vol. 175; p. 715.
Clark, Fletcher B., Pitman Grove, N. J. Non-refillable bottle. No. 1,043,903; Nov. 12; Gaz. vol. 184; p. 332.

Alphabetical list of patentees—Continued.

Clark, Fred S., Syracuse, N. Y. Mold for concrete burial-cases. No. 1,036,566; Aug. 27; Gaz. vol. 181; p. 839.
Clark, Frederick, Minneapolis, assignor of one-half to W. N. King, Waverly, Minn. Flue-expander. No. 1,047,498; Dec. 17; Gaz. vol. 185; p. 662.
Clark, Frederick B., Philadelphia, Pa., assignor to S. A. Weston, Arden, N. C. Ice-cutting apparatus. No. 1,016,550; Feb. 6; Sp. p. 748; Gaz. vol. 175; p. 110.
Clark, George F., Daytona Beach, Fla. Device for removing valve-springs. No. 1,034,874; Aug. 6; Gaz. vol. 181; p. 160.
Clark, George H., Allston, assignor of one-half to himself, and one-half to A. W. Griffith, Boston, Mass. Shoe. No. 1,013,744; Jan. 2; Sp. p. 1449; Gaz. vol. 174; p. 228.
Clark, George H., assignor of one-half to himself and one-half to A. W. Griffith, Boston, Mass. Shoe-sewing machine. No. 1,043,756; Nov. 5; Gaz. vol. 184; p. 250.
Clark, George L. (See Hayhurst, Colbert G., assignor.)
Clark, George O., Ola, S. D. Spring-wheel. No. 1,044,019; Nov. 12; Gaz. vol. 184; p. 373.
Clark, George W., Grand Rapids, Mich. Track-scraper for street-railway cars. No. 1,033,539; July 23; Gaz. vol. 180; p. 1042.
Clark, Guy Z., Billings, Mont. Whiffletree-hook. No. 1,019,949; Mar. 12; Sp. p. 2019; Gaz. vol. 176; p. 349.
Clark, Harold H., Pittsburgh, Pa. Centrifugal humidifier. No. 1,040,885; Oct. 8; Gaz. vol. 183; p. 441.
Clark, Harry B., assignor of one-third to C. P. Griffin and one-third to J. J. Duffie, San Francisco, Cal. Friction transmission mechanism. No. 1,035,155; Aug. 13; Gaz. vol. 181; p. 281.
Clark, Henry F., Jeannette, assignor to Window Glass Machine Company, Pittsburgh, Pa. Drawing glass. No. 1,044,139; Nov. 12; Gaz. vol. 184; p. 413.
Clark, Horace J., assignor to The Clark Dredge Manufacturing Company, Chicago, Ill. Raft for dredges. No. 1,019,224; Mar. 5; Sp. p. 480; Gaz. vol. 176; p. 76.
Clark, Horace W., Mattoon, Ill. Pipe-coupling. No. 1,015,990; Jan. 30; Sp. p. 6372; Gaz. vol. 174; p. 1109.
Clark, Horace W., Mattoon, Ill. Cement-mold. No. 1,019,598; Mar. 5; Sp. p. 1321; Gaz. vol. 176; p. 199.
Clark, Howard W., Davison, Mich. Clover-buncher. No. 1,041,963; Oct. 22; Gaz. vol. 183; p. 875.
Clark, Hugh D., Columbus, Ohio. Locking device for burial vaults or casings. No. 1,045,259; Nov. 26; Gaz. vol. 184; p. 860.
Clark, Isabella M., Cleveland, Ohio. Book-holder. No. 1,029,668; June 18; Sp. p. 3460; Gaz. vol. 179; p. 614.
Clark, Isom J., Mahomet, Tex. Whip-socket. No. 1,045,371; Nov. 26; Gaz. vol. 184; p. 899.
Clark, James. (See Connolly, Martin P., assignor.)
Clark, James, and G. Irwin, assignors to S. R. Dresser Manufacturing Company, Bradford, Pa. Repair-clamp for pipe-joints of the bell and spigot type. No. 1,039,488; Sept. 24; Gaz. vol. 182; p. 871.
Clark, James J. (See Shelton, James, assignor.)
Clark, James L., South Kensington, London, England. Pipe or launder. No. 1,016,815; Feb. 6; Sp. p. 1295; Gaz. vol. 175; p. 199.
Clark, James T., Montreal, Quebec, Canada. Display-fixture. No. 1,044,493; Nov. 19; Gaz. vol. 184; p. 564.
Clark, James T., Montreal, Quebec, Canada. Display-fixture. No. 1,046,735; Dec. 10; Gaz. vol. 185; p. 367.
Clark, John, Sydenham, England. Nut-lock. No. 1,020,026; Mar. 12; Sp. p. 2172; Gaz. vol. 176; p. 374.
Clark, John, St. Paul, Minn. Dipper-tooth for steam-shovels. No. 1,021,135; Mar. 26; Sp. p. 4517; Gaz. vol. 176; p. 832.
Clark, John B. (See McKinzie and Clark.)
Clark, John C., Atlanta, Ga. Pulverizing-mill. No. 1,049,051; Dec. 31; Gaz. vol. 185; p. 1262.
Clark, John C., Atlanta, Ga. Screen or separator. No. 1,049,052; Dec. 31; Gaz. vol. 185; p. 1262.
Clark, John M., Norton, Kans. Shoe-cleaning device. No. 1,032,740; July 16; Gaz. vol. 180; p. 738.
Clark, John T., New York, N. Y. Apparatus for loading vessels. No. 1,013,928; Jan. 9; Sp. p. 1880; Gaz. vol. 174; p. 320.
Clark, John T., New York, N. Y. Elevator. No. 1,023,124; Apr. 16; Sp. p. 2942; Gaz. vol. 177; p. 533.
Clark, John T., Provo, Utah. Railway-tie and fastener. No. 1,014,948; Jan. 16; Sp. p. 4158; Gaz. vol. 174; p. 699.
Clark, John T., Provo, Utah. Railway-tie and fastener. No. 1,026,020; May 14; Sp. p. 2018; Gaz. vol. 178; p. 348.
Clark, John T., Provo, Utah. Railway-tie and fastener, No. 1,034,585; Aug. 6: Gaz. vol. 181; p. 61.
Clark, John T., Provo, Utah. Railway-tie and fastener. No. 1,041,964; Oct. 22; Gaz. vol. 183; p. 876.
Clark, John T., Provo, Utah. Railway-tie fastener. No. 1,045,513; Nov. 26; Gaz. vol. 184; p. 950.
Clark, Joseph S., *et al.* (See Lister, Nicholas E., assignor.)
Clark, Joseph V., Steubenville, Ohio. Packing. No. 1,013,745; Jan. 2; Sp. p. 1450; Gaz. vol. 174; p. 228.
Clark, Joseph V., Steubenville, assignor to C. H. Baxter, East Liverpool, Ohio. Metallic packing. No. 1,034,768; Aug. 6; Gaz. vol. 181; p. 123.
Clark, Josiah F., and J. F. Dorsey, Thompson, Pa. Attachment for squares. No. 1,014,453; Jan. 9; Sp. p. 3022; Gaz. vol. 174; p. 501.
Clark, Laurence A. (See Harris, Moses A., assignor.)
Clark, Le Vert, Detroit, Mich. Implement for holding and spreading viscous material. No. 1,017,957; Feb. 20; Sp. p. 3840; Gaz. vol. 175; p. 666.
Clark, Le Vert, Detroit, Mich. Colonnade-car. No. 1,033,540; July 23; Gaz. vol. 180; p. 1042.
Clark, Leonard M., *et al.* (See Ensley, Benjamin F. and C. E., assignors.)
Clark, Lucien L. (See Hanson, Freeman, assignor.)
Clark Manufacturing Company, The. (See Strong, Leslie P., assignor.)
Clark, Maurice C., Providence, R. I. Manufacture of rubber footwear. No. 1,047,750; Dec. 17; Gaz. vol. 185; p. 752.
Clark, Melville, Chicago, Ill. Step-feed for automatic modifying devices for automatic musical instruments. No. 1,013,862; Jan. 9; Sp. p. 1720; Gaz. vol. 174; p. 298.
Clark, Melville, Chicago, Ill. Interior-player piano. No. 1,014,809; Jan. 16; Sp. p. 3824; Gaz. vol. 174; p. 650.
Clark, Melville, Chicago, Ill. Interior-player piano. No. 1,014,810; Jan. 16; Sp. p. 3826; Gaz. vol. 174; p. 651.
Clark, Melville, Chicago, Ill. Interior-player piano. No. 1,014,811; Jan. 16; Sp. p. 3828; Gaz. vol. 174; p. 651.
Clark, Melville, Chicago, Ill. Interior-player piano. No. 1,014,864; Jan. 16; Sp. p. 3966; Gaz. vol. 174; p. 671.
Clark, Melville, Chicago, Ill. Interior-player piano. No. 1,014,949; Jan. 16; Sp. p. 4159; Gaz. vol. 174; p. 699.
Clark, Melville, Chicago, Ill. Automatic piano. No. 1,019,758; Mar. 12; Sp. p. 1633; Gaz. vol. 176; p. 285.
Clark, Melville, Chicago, Ill. Note-sheet for autopneumatic piano-players. No. 1,022,403; Apr. 9; Sp. p. 1358; Gaz. vol. 177; p. 249.
Clark, Melville, Chicago, Ill. Solo-playing automatic piano. No. 1,024,677; Apr. 30; Sp. p. 6335; Gaz. vol. 177; p. 1117.
Clark, Melville A. (See Eccleston, S Spencer, assignor.)
Clark, Meredith, Garden City, N. Y. Measuring device. No. 1,034,424; Aug. 6: Gaz. vol. 181; p. 9.
Clark, Morris C., Louisville, Ky. Door closer and check. No. 1,046,556; Dec. 10; Gaz. vol. 185; p. 303.
Clark, Norris E., Plainville, Conn. Slitting-machine. No. 1,037,204; Sept. 3; Gaz. vol. 182; p. 9.
Clark, Peter T., Roxbury, Mass. Protective shield for beer-cases. No. 1,039,364; Sept. 24; Gaz. vol. 182; p. 828.
Clark Printing Press Company. (See Clark, William M., assignor.)
Clark, Reed J., Jr., Youngstown, Ohio. Pencil marking-gage. No. 1,046,975; Dec. 10; Gaz. vol. 185; p. 447.
Clark, Robert, Leavenworth, Kans. Sheep-dipping mechanism. No. 1,033,986; July 30; Gaz. vol. 180; p. 1220.
Clark, Robert D., Duquesne, Pa. Safety elevator device. No. 1,015,137; Jan. 16; Sp. p. 4532; Gaz. vol. 174; p. 764.
Clark, Robert D., Duquesne, Pa. Lubricator. No. 1,035,156; Aug. 13; Gaz. vol. 181; p. 282.
Clark, Robert P. and W. H., Fresno, Cal. Spring-protector and shock-absorber. No. 1,032,990; July 16; Gaz. vol. 180; p. 819.
Clark, Sawyer D., Boulder, Colo. Trap attachment for fly-screens. No. 1,037,727; Sept. 3; Gaz. vol. 182; p. 184.
Clark, Spencer L., Hale, Mich. Spike. No. 1,035,419; Aug. 13; Gaz. vol. 181; p. 375.
Clark, Victor E., Grand Rapids, assignor to The Victor Brown Company, Detroit, Mich. Broom. No. 1,015,263; Jan. 16; Sp. p. 4787; Gaz. vol. 174; p. 805.
Clark, Wallace S., Schenectady, N. Y., assignor to General Electric Company. Electric heating-pad. No. 1,015,991; Jan. 30; Sp. p. 6373; Gaz. vol. 174; p. 1109.
Clark, Walter A. (See Clark, Burton B. and W. A.)
Clark, Walter E. (See Strouse and Clark.)
Clark, Walter G., New York, N. Y. Electric-lamp socket. No. 1,018,480; Feb. 27; Sp. p. 4978; Gaz. vol. 175; p. 877.
Clark, Walter G., New York, N. Y. Suspension insulator-clamp. No. 1,019,225; Mar. 5; Sp. p. 482; Gaz. vol. 176; p. 77.
Clark, Walter G., New York, N. Y. Insulator-clamp. No. 1,040,620; Oct. 8; Gaz. vol. 183; p. 353.
Clark, Walter G., New York, N. Y. Suspension insulator-clamp. No. 1,040,975; Oct. 8; Gaz. vol. 183; p. 473.
Clark, William E., Boise, Idaho. Lathe-chuck. No. 1,025,784; May 7; Sp. p. 1479; Gaz. vol. 178; p. 234.
Clark, William E., and H. I. Stevenson, Boise, Idaho. Fish-screen. No. 1 038,087; Sept. 10; Gaz. vol. 182; p. 338.
Clark, William G., Geelong, Victoria, Australia. Copperizing iron. No. 1,014,454; Jan. 9; Sp. p. 3024; Gaz. vol. 174; p. 501.
Clark, William H. (See Clark, Robert P. and W. H.)
Clark, William K., Amsterdam, N. Y. Device for marking goods. No. 1,023,505; Apr. 16; Sp. p. 3726; Gaz. vol. 177; p. 659.
Clark, William M., Washington, D. C. Humidostat-regulator No. 1,042,893; Oct. 29; Gaz. vol. 183; p. 1221.
Clark, William M., assignor to Clark Printing Press Company, Philadelphia, Pa. Printing-press. No. 1,034,083; July 30; Gaz. vol. 180; p. 1255.

Alphabetical list of patentees—Continued.

Clark, William M., assignor to Clark Printing Press Company, Philadelphia, Pa. Printing-press. No. 1,038,088; Sept. 10; Gaz. vol. 182; p. 338.
Clark, William R., Muncie, Ind. Safety-crank for explosion-engines. No. 1,020,799; Mar. 19; Sp. p. 3818; Gaz. vol. 176; p. 669.
Clark, William T., Yonkers, N. Y. Shock-absorber for gearing. No. 1,037,205; Sept. 3; Gaz. vol. 182; p. 9.
Clark, Willis J., New Orleans, La. Record-file. No. 1,041,593; Oct. 15; Gaz. vol. 183; p. 711.
Clark, Winthrop A., Stamford, Conn. Water-jacketed nozzle. No. 1,031,422; July 2; Gaz. vol. 180; p. 201.
Clarke, Algernon E., Grand Rapids, Mich. Garment. No. 1,035,819; Aug. 13; Gaz. vol. 181; p. 509.
Clarke, Athol W., Manchester, England, assignor, by mesne assignments, to The Colonial Trust Company, trustee, Pittsburgh, Pa. Fluid-pressure turbine. No. 1,029,489; June 11; Sp. p. 3080; Gaz. vol. 179; p. 516.
Clarke, Ferdinand T., Finley, Wash. Water-wheel. No. 1,035,779; Aug. 13; Gaz. vol. 181; p. 495.
Clarke, Ferdinand T., Finley, Wash. Rotary pump. No. 1,039,028; Sept. 17; Gaz. vol. 182; p. 694.
Clarke, Frederick C., Winfield, Kans., assignor to A. G. Spalding & Bros., Jersey City, N. J. Sliding-pad for base-ball players, &c. No. 1,044,494; Nov. 19; Gaz. vol. 184; p. 565.
Clarke, Frederick F. (See Colburn and Clarke.)
Clarke, Frederick F., Franklin, Pa. Tool-holder and securing device for same. No. 1,013,129; Jan. 2; Sp. p. 80; Gaz. vol. 174; p. 14.
Clarke, George L., Brooklyn, N. Y., assignor to The Eden Company. Perfume preparation. No. 1,029,105; June 11; Sp. p. 2254; Gaz. vol. 179; p. 385.
Clarke, Graham, assignor to The Ohio Chemical & Manufacturing Company, Cleveland, Ohio. Attachment for anesthetizing-machines. No. 1,024,556; Apr. 30; Sp. p. 6071; Gaz. vol. 177; p. 1075.
Clarke, Hal. (See Bergman and Clarke.)
Clarke, Henry. (See Wallace and Clarke.)
Clarke, John Q., assignor to The J. Q. Clarke Tank Co., Incorporated, Crawfordsville, Ind. Farrowing-house. No. 1,039,255; Sept. 24; Gaz. vol. 182; p. 791.
Clarke, John T. (See Hillman, Henry G., assignor.)
Clarke, Marcus S., Houston, Tex. Hydrocarbon-burner. No. 1,017,621; Feb. 13; Sp. p. 3025; Gaz. vol. 175; p. 511.
Clarke, Marcus S., Houston, Tex. Ironing-board. No. 1,022,404; Apr. 9; Sp. p. 1361; Gaz. vol. 177; p. 249.
Clarke, May E. (See Lange, Lucy M., assignor.)
Clarke, Ralph S., assignor to C. S. Bird, East Walpole, Mass. Carton-sealing machine. No. 1,034,344; July 30; Gaz. vol. 180; p. 1345.
Clarke, Walter J., San Francisco, Cal. Safety-faucet. No. 1,032,044; July 9; Gaz. vol. 180; p. 455.
Clarkson, Alfred. (See Clarkson, Alfred R., assignor.)
Clarkson, Alfred R., Birmingham, Ala., assignor to A. Clarkson, Fall River, Mass. Nozzle. No. 1,042,323; Oct. 22; Gaz. vol. 183; p. 994.
Clarkson, Michael, Chicago, Ill. Manhole and well for subways. No. 1,023,815; Apr. 23; Sp. p. 4347; Gaz. vol. 177; p. 786.
Clarkson, Michael, Chicago, Ill. Apparatus used in the construction of fire-hydrants and the like. No. 1,030,384; June 25; Sp. p. 5066; Gaz. vol. 179; p. 903.
Clarkson, Michael, Chicago, Ill. Burial-vault. No. 1,030,385; June 25; Sp. p. 5070; Gaz. vol. 179; p. 904.
Clarkson, Michael, Chicago, Ill. Fire-hydrant catch-basin. No. 1,040,621; Oct. 8; Gaz. vol. 183; p. 353.
Clary, Simon, Carnegie, Pa., and J. Butler, Steubenville, Ohio. Tie and rail-fastener. No. 1,025,686; May 7; Sp. p. 1286; Gaz. vol. 178; p. 199.
Clasen, Claus J. W., Davenport, assignor to Bettendorf Axle Company, Bettendorf, Iowa. Convertible car. No. 1,025,609; May 7; Sp. p. 1117; Gaz. vol. 178; p. 174.
Clasen, Hermann, Schmiedefeld, Germany. Smoke and gas collector for engine-houses. No. 1,028,437; June 4; Sp. p. 824; Gaz. vol. 179; p. 124.
Class & Flentje, Gesellschaft mit beschränkter Haftung. (See Goebel, Carl, assignor.)
Claude, Georges, assignor to Société l'Air Liquide, Société Anonyme pour l'Etude et l'Exploitation des Procédés Georges Claude, Paris, France. Extracting rare gases from the air. No. 1,025,962; May 14; Sp. p. 1909; Gaz. vol. 178; p. 329.
Claude, Georges, assignor to Société "L'Air Liquide" (Société Anonyme pour l'Etude et l'Exploitations des Procédés Georges Claude), Paris, France. Liquefaction of gases. No. 1,027,817; May 28; Sp. p. 5956; Gaz. vol. 178; p. 1034.
Claude, Georges, assignor to L'Air Liquide, Société Anonyme pour l'Etude et l'Exploitation des Procédés Georges Claude, Paris, France. Recovery of volatile liquids. No. 1,040,886; Oct. 8; Gaz. vol. 183; p. 442.
Clauder, Arthur W., Bridgeport, Conn., assignor to Union Typewriter Company, Jersey City, N. J. Type-writing machine. No. 1,030,503; June 25; Sp. p. 5344; Gaz. vol. 179; p. 945.
Claudin, John L., assignor, by mesne assignments, to Interlocking Fence Company, Morton, Ill. Wire-fence machine. No. 1,041,742; Oct. 22; Gaz. vol. 183; p. 798.
Claudon, August E., Denver, Colo. Circuit-make-and-break device. No. 1,041,594; Oct. 15; Gaz. vol. 183; p. 711.
Claus, Christian. (See Visger and Claus.)
Claus, Emil A. (See Claussen and Claus.)
Claus, George E., Detroit, Mich. Gas-engine. No. 1,031,246; July 2; Gaz. vol. 180; p. 141.
Claus, Joseph A., Lowell, assignor to Draper Company, Hopedale, Mass. Loom-shuttle. No. 1,031,690; July 9; Gaz. vol. 180; p. 334.
Claus, Robert C., Belmont, assignor of one-fifth to J. C. Whitney, West Newton, Mass. Safety device for heaters. No. 1,048,659; Dec. 31; Gaz. vol. 185; p. 1125.
Clausen, Bernhard, assignor to Firm of L. Heisse, Dortmund, Germany. Aerial track. No. 1,038,089; Sept. 10; Gaz. vol. 182; p. 339.
Clausen, Claus, Christiania, Norway. Combined oil-skimmer and feed-water heater. No. 1,025,863; May 7; Sp. p. 1657; Gaz. vol. 178; p. 260.
Clausen, Henry P., Chicago, Ill., assignor, by mesne assignments, to Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Telephone system. No. 1,024,498; Apr. 30; Sp. p. 5895; Gaz. vol. 177; p. 1054.
Clausen, Henry P., Chicago, Ill., assignor, by mesne assignments, to Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Telephone system. No. 1,034,875; Aug. 6; Gaz. vol. 181; p. 160.
Clausen, Henry P., Chicago, Ill., assignor, by mesne assignments, to Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Telephone system. No. 1,035,157; Aug. 13; Gaz. vol. 181; p. 282.
Clausen, Henry P., Chicago, Ill., assignor, by mesne assignments, to Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Telephone apparatus. No. 1,035,158; Aug. 13; Gaz. vol. 181; p. 283.
Clausen, Henry P., Chicago, Ill., assignor, by mesne assignments, to Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Telephone system. No. 1,035,159; Aug. 13; Gaz. vol. 181; p. 283.
Clausen, Henry P., Chicago, Ill., assignor, by mesne assignments, to Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Telephone system. No. 1,043,299; Nov. 5; Gaz. vol. 184; p. 90.
Clausen, Henry P., Chicago, Ill., assignor, by mesne assignments, to Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Telephone system. No. 1,043,300; Nov. 5; Gaz. vol. 184; p. 90.
Clausen, Henry P., Chicago, Ill., assignor, by mesne assignments, to Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Telephone system. No. 1,043,301; Nov. 5; Gaz. vol. 184; p. 91.
Clausen, Henry P., Chicago, Ill., assignor, by mesne assignments, to Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Telephone system. No. 1,044,747; Nov. 19; Gaz. vol. 184; p. 654.
Clausen, Henry P., Chicago, Ill., assignor, by mesne assignments, to Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Telephone system. No. 1,044,748; Nov. 19; Gaz. vol. 184; p. 655.
Clausen, Henry P., Chicago, Ill., assignor, by mesne assignments, to American Electric Company. Party-line telephone system. No. 1,041,965; Oct. 22; Gaz. vol. 183; p. 876.
Clauson, Joseph A., Boston, Mass. Agitating-platform. No. 1,020,344; Mar. 12; Sp. p. 2822; Gaz. vol. 176; p. 478.
Clauss, George E., assignor to The Ansonia O. & C. Company, Ansonia, Conn. Button-covering fabric. No. 1,027,690; May 28; Sp. p. 5692; Gaz. vol. 178; p. 992.
Clauss, Henrie. (See Jeremias, Charles, assignor.)
Clauss, Henrie, Fremont, Ohio. Tension attachment for shears. No. 1,020,400; Mar. 19; Sp. p. 2947; Gaz. vol. 176; p. 535.
Clauss, Otto E. (See Kirch and Clauss.)
Claussen, Edward E., and E. A. Claus, Hartford, Conn., assignors to Public Service Cup Company. Paper-blank-feeding machine. No. 1,047,172; Dec. 17; Gaz. vol. 185; p. 544.
Claussen, Edward E., and E. A. Claus, Hartford, Conn., assignors to Public Service Cup Company. Paper-cup machine. No. 1,047,173; Dec. 17; Gaz. vol. 185; p. 544.
Claussen, Hermann, Brooklyn, N. Y. Hanger. No. 1,018,097; Feb. 20; Sp. p. 4158; Gaz. vol. 175; p. 715.
Claussen, Martin. (See Nickum and Claussen.)
Claussen, Walter E., Hartford, Conn. Paper drinking-cup. No. 1,020,187; Mar. 12; Sp. p. 2522; Gaz. vol. 176; p. 428.
Clawson, Charles F., Mount Pleasant, Iowa. Spark-arrester. No. 1,016,213; Jan. 30; Sp. p. 6817; Gaz. vol. 174; p. 1185.
Clawson, Clement C., Flagtown, N. J. Coin-controlled vending-machine. No. 1,020,966; Mar. 26; Sp. p. 4175; Gaz. vol. 176; p. 776.
Clawson, Clement C., Flagtown, N. J. Vending-machine. No. 1,045,514; Nov. 26; Gaz. vol. 184; p. 951.
Clawson, Clement C., Flagtown, N. J. Coin-controlled vending-machine. No. 1,048,660; Dec. 31; Gaz. vol. 185; p. 1126.

Alphabetical list of patentees—Continued.

Clawson, Clement C., Flagtown, N. J., assignor, by mesne assignments, to United States Mortgage & Trust Company, trustee, New York, N. Y. Speed-recorder and analogous apparatus. No. 1,038,297; Sept. 10; Gaz. vol. 182; p. 409.
Clawson, Hiram, Hamilton, Ohio. Metallic shingle. No. 1,026,202; May 14; Sp. p. 2460; Gaz. vol. 178; p. 412.
Clawson, Leonard E., San Francisco, Cal. Chimney. No. 1,042,085; Oct. 22; Gaz. vol. 183; p. 916.
Clay, Harry C., assignor to Reeves & Company, Columbus, Ind. Sparking apparatus for internal-combustion engines. No. 1,015,005; Jan. 16; Sp. p. 4279; Gaz. vol. 174; p. 719.
Clay, Henry H., deceased; J. B. Clay, administrator, assignor to Iowa Gate Company, Cedar Falls, Iowa. Gate-stay. No. 1,044,351; Nov. 12; Gaz. vol. 184; p. 487.
Clay, Joseph B., administrator. (See Clay, Henry H.)
Clay, Joseph B., Cedar Falls, Iowa. Gate. No. 1,017,248; Feb. 13; Sp. p. 2272; Gaz. vol. 175; p. 386.
Clay, Marshall F. (See Basset, Clay, and Phare.)
Clay, Marshall F. (See Phare and Clay.)
Clay, Percy, and G. Washington, New Orleans, La. Signal-lantern. No. 1,035,420; Aug. 13; Gaz. vol. 181; p. 375.
Clay, Samuel B., Sterling, Colo. Postal-card rack. No. 1,016,915; Feb. 6; Sp. p. 1506; Gaz. vol. 175; p. 233.
Clay, William J., Cotton Valley, La. Reel-operated hydrant. No. 1,041,743; Oct. 22; Gaz. vol. 183; p. 798.
Clayton, Benjamin. (See Brown and Clayton.)
Clayton, Bert A., assignor of one-half to B. J. Palmer, Davenport, Iowa. Operating chair or table. No. 1,046,736; Dec. 10; Gaz. vol. 185; p. 367.
Clayton, George J., Lakewood, N. J. Power-brake for automobiles. No. 1,047,384; Dec. 17; Gaz. vol. 185; p. 622.
Clayton-Joel, William, Melbourne, Victoria, Australia. Flashing gas-sign. No. 1,019,599; Mar. 5; Sp. p. 1322; Gaz. vol. 176; p. 199.
Clayton, Joseph B., Solitude, Ky. Boot and shoe cleaner. No. 1,033,673; July 23; Gaz. vol. 180; p. 1086.
Clayton, William H., Poplar Bluff, assignor to Dalton Adding Machine Company, St. Louis, Mo. Type-writing machine. No. 1,049,291; Dec. 31; Gaz. vol. 185; 1342.
Clayton, William L. (See Brown and Clayton.)
Clayton, William S. (See Bernard and Clayton.)
Cleal, Joseph P., assignor, by mesne assignments, to The National Cash Register Company, Dayton, Ohio. Vibratory chuck. No. 1,027,402; May 28; Sp. p. 5108; Gaz. vol. 178; p. 897.
Cleal, Joseph P., assignor, by mesne assignments, to The National Cash Register Company, Dayton, Ohio. Cash-register. No. 1,043,804; Nov. 12; Gaz. vol. 184; p. 297.
Cleal, Joseph P., Toronto, Ontario, Canada, assignor to The National Cash Register Company, Dayton, Ohio. Cash-register. No. 1,047,751; Dec. 17; Gaz. vol. 185; p. 752.
Cleal, Joseph P., Toronto, Ontario, Canada, and J. G. Fletcher, Pittsburgh, Pa. Machine for canceling mail-matter. No. 1,033,383; July 23; Gaz. vol. 180; p. 992.
Cleal, Joseph P., Toronto, Ontario, Canada, and J. G. Fletcher, Pittsburgh, Pa. Clutch mechanism. No. 1,034,690; Aug. 6; Gaz. vol. 181; p. 95.
Clearwater, Harley M. (See Ramsey, Clearwater, and Temple.)
Clearwater, John E. (See Axford and Clearwater.)
Cleaver, George E., assignor to Penn Hardware Company, Reading, Pa. Lock. No. 1,043,067; Nov. 5; Gaz. vol. 184; p. 6.
Cleeland, Merrill E. (See McWilliams and Cleeland.)
Clegg, Thomas, and G. Gee, Calgary, Alberta, Canada. Hose-coupling. No. 1,044,495; Nov. 19; Gaz. vol. 184; p. 565.
Cleghorn, Douglas H., San Diego, Cal. Amusement apparatus. No. 1,028,543; June 4; Sp. p. 1043; Gaz. vol. 179; p. 159.
Cleghorn, Walter C., Bloomington, Ill. Vehicle-tire. No. 1,044,352; Nov. 12; Gaz. vol. 184; p. 487.
Cleland, Harry W., Wilkinsburg, assignor to G. B. Griffin, Edgewood Park, Pa. Spring-motor. No. 1,015,298; Jan. 23; Sp. p. 4872; Gaz. vol. 174; p. 844.
Cleland, McKenzie. (See Shlosberg, Maris, assignor.)
Clemens, Charles M., Jr., Eyota, Minn. Onion-topper. No. 1,041,595; Oct. 15; Gaz. vol. 183; p. 711.
Clemens, John J., Chicago, Ill. Curtain-rod and the like. No. 1,034,876; Aug. 6; Gaz. vol. 181; p. 161.
Clemens, Joseph P., Jeannette, Pa. Rail-joint. No. 1,032,813; July 16; Gaz. vol. 180; p. 762.
Clément, Adolphe, Levallois-Perret, France. Starting device for explosion-motors. No. 1,047,499; Dec. 17; Gaz. vol. 185; p. 662.
Clement, Edward E. (See Pollak, Eli, assignor.)
Clement, Edward E., Washington, D. C. Telephone-exchange system. No. 1,023,480; Apr. 16; Sp. p. 3676; Gaz. vol. 177; p. 651.
Clement, Edward E., Washington, D. C. Telephone-exchange system. No. 1,024,487; Apr. 23; Sp. p. 5843; Gaz. vol. 177; p. 1016.
Clement, Edward E., Washington, D. C. Telephone-exchange system. No. 1,027,239; May 21; Sp. p. 4771; Gaz. vol. 178; p. 803.
Clement, Edward E., Washington, D. C. Electrical contact. No. 1,027,240; May 21; Sp. p. 4774; Gaz. vol. 178; p. 803.
Clement, Edward E., Washington, D. C. Telephone-exchange system. No. 1,029,577; June 11; Sp. p. 3258; Gaz. vol. 179; p. 547.
Clement, Edward E., Washington, D. C. Automatic switch. No. 1,029,590; June 18; Sp. p. 3289; Gaz. vol. 179; p. 586.
Clement, Edward E., Washington, D. C. Electrical switching apparatus for telephone systems. No. 1,029,591; June 18; Sp. p. 3295; Gaz. vol. 179; p. 586.
Clement, Edward E., Washington, D. C. Method of and apparatus for electrical-wave transmission. No. 1,032,658; July 16; Gaz. vol. 180; p. 708.
Clement, Edward E., Washington, D. C. Impulse-transmitter. No. 1,037,172; Aug. 27; Gaz. vol. 181; p. 1040.
Clement, Edward E., Washington, D. C. Telephone-exchange system. No. 1,037.438; Sept. 3; Gaz. vol. 182; p. 89.
Clement, Edward E., Washington, D. C., assignor to The North Electric Company, Cleveland, Ohio. Telephone-exchange system. No. 1,036,961; Aug. 27; Gaz. vol. 181; p. 969.
Clement, Edward E., Washington, D. C., assignor to The North Electric Company, Cleveland, Ohio. Telephone-exchange system. No. 1,045,515; Nov. 26; Gaz. vol. 184; p. 951.
Clement, Henry W., Rutland, Vt. Key mechanism for calculating-machines. No. 1,044,020; Nov. 12; Gaz. vol. 184; p. 373.
Clements Co., The. (See Kennedy, Joseph, assignor.)
Clements, Maurice C., *et al.* (See Morral, John, assignor.)
Clements, Walter E., Erdington, England. Flexible or spring grip-developer. No. 1,041,431; Oct. 15; Gaz. vol. 183; p. 659.
Clements, Willard B., Veedum, Wis. Flying-machine. No. 1,035,858; Aug. 20; Gaz. vol. 181; p. 560.
Clements, William H., Nutley, N. J. Display-container. No. 1,042,086; Oct. 22; Gaz. vol. 183; p. 917.
Clements, William N. (See Knight and Clements.)
Clemetsen Company, The. (See Vaaler, Jens, assignor.)
Clemmens, Charles S. (See Vause and Clemmens.)
Clemmer, George B., Trenton, N. J. Condiment-holder. No. 1,023,413; Apr. 16; Sp. p. 3546; Gaz. vol. 177; p. 631.
Clemmons, George W., Scranton, Pa., assignor of one-third to C. M. Carhart, Hoboken, and one-third to E. Henneger, West New York, N. J. Float-rail lock. No. 1,028,810; June 4; Sp. p. 1592; Gaz. vol. 179; p. 249.
Clemons, Thomas A., Stecker, Okla. Holder for shutters or other closures. No. 1,046,266; Dec. 3; Gaz. vol. 185; p. 163.
Clerc, François, Geneva, assignor to The Firm Kustner Frères, Vollandes-Geneva, Switzerland. Machine for slicing foodstuffs. No. 1,026,495; May 14; Sp. p. 3098; Gaz. vol. 178; p. 511.
Cleveland, Albert, *et al.* (See Shoemaker, Alvin H., assignor.)
Cleveland, Barton S., Orient, N. Y. Knockdown window-screen. No. 1,044,626; Nov. 19; Gaz. vol. 184; p. 612.
Cleveland Car Specialty Company. (See Bidle and Costello, assignors.)
Cleveland Car Specialty Company. (See Costello, Joseph A., assignor.)
Cleveland, Charles E., Fond du Lac, Wis. Sawmill. No. 1,040,622; Oct. 8; Gaz. vol. 183; p. 353.
Cleveland, Ernest E., Springfield, Mass. Hydraulic air-ejector. No. 1,027,321; May 21; Sp. p. 4937; Gaz. vol. 178; p. 830.
Cleveland, Francis D., Winchester, Mass. Apparatus for cleaning cans. No. 1,026,381; May 14; Sp. p. 2859; Gaz. vol. 178; p. 474.
Cleveland, Francis D., Winchester, Mass. Machine for handling and cutting fish. No. 1,030,646; June 25; Sp. p. 5826; Gaz. vol. 179; p. 998.
Cleveland, Francis D., Winchester, Mass. Machine for handling and flaking fish. No. 1,036,567; Aug. 27; Gaz. vol. 181; p. 839.
Cleveland, Francis D., Winchester, Mass. Automatic mechanism for handling, cutting, and flaking fish. No. 1,036,568; Aug. 27; Gaz. vol. 181; p. 840.
Cleveland, Francis D., Winchester, Mass. Fish-handling mechanism. No. 1,049,208; Dec. 31; Gaz. vol. 185; p. 1313.
Cleveland, Fred P., assignor to B. F. Perkins and Son, Incorporated, Holyoke, Mass. Operating mechanism for paper-testing machines. No. 1,025,110; Apr. 30; Sp. p. 7220; Gaz. vol. 177; p. 1265.
Cleveland, Grover E., assignor to Capitol Auto Lock Company, Detroit, Mich. Safety-lock. No. 1,040,509; Oct. 8; Gaz. vol. 183; p. 312.
Cleveland, Grover E., assignor to Sturgis Steel Go-Cart Company, Sturgis, Mich. Collapsible carriage. No. 1,048,495; Dec. 31; Gaz. vol. 185; p. 1068.
Cleveland, Henry B., Albany, N. Y. Puzzle. No. 1,027,691; May 28; Sp. p. 5694; Gaz. vol. 178; p. 992.

Alphabetical list of patentees—Continued.

Cleveland Railway Supply Company, The. (See Newhall, Walter S., assignor.)
Cleveland Railway Supply Company, The. (See Newhall, Linn, and Hezlep, assignors.)
Cleveland Rock Drill Company, The. (See Richards, Charles B., assignor.)
Cleveland Welding & Mfg. Co., The. (See Heinsohn and Edwards, assignors.)
Cleveland Welding & Mfg. Co., The. (See Heinsohn, Edwards, and Klaus, assignors.)
Cleveland, William B., and W. E. Huber, assignors to The Electric Railway Improvement Company, Cleveland, Ohio. Electrode for welding. No. 1,045,948; Dec. 3; Gaz. vol. 185; p. 52.
Clevenger, Emma M., Muncie, Ind. Window construction. No. 1,014,638; Jan. 16; Sp. p. 3452; Gaz. vol. 174; p. 593.
Clewell, Eva M., Canton, Ohio. Waist and skirt holder. No. 1,016,612; Feb. 6; Sp. p. 883; Gaz. vol. 175; p. 132.
Cliff, Chester W., and H. T. Maze, Anderson, Ind. Steam-generator. No. 1,040,510; Oct. 8; Gaz. vol. 183; p. 313.
Cliff, George H., assignor to The De Long Hook and Eye Company, Philadelphia, Pa. Garment-hook. No. 1,036,799; Aug. 27; Gaz. vol. 181; p. 916.
Clifford, Burton E., Iola, Kans. Fence-post. No. 1,033,987; July 30; Gaz. vol. 180; p. 1221.
Clifford, Harlon A., Jersey City, N. J. Torch. No. 1,016,613; Feb. 6; Sp. p. 884; Gaz. vol. 175; p. 132.
Clifford, John, assignor to L. Wolff Manufacturing Company, Chicago, Ill. Waste or soil pipe connection for water-closets. No. 1,042,087; Oct. 22; Gaz. vol. 183; p. 917.
Clifford, John P., and S. G. Murray, Passaic, assignors to Richardson Scale Company, Athenia, N. J. Weighing-machine. No. 1,044,353; Nov. 12; Gaz. vol. 184; p. 487.
Clifford, Robert, Greensburg, assignor of one-third to J. D. Linardos and one-third to F. Contaxes, Westmoreland county, Pa. Electric rat-trap. No. 1,045,676; Nov. 26; Gaz. vol. 184; p. 1009.
Clifford, William, Duluth, Minn. Shaft-packing. No. 1,032,187; July 9; Gaz. vol. 180; p. 503.
Clifford, William T., Randwick, near Sydney, New South Wales, Australia. Overall-garment. No. 1,037,206; Sept. 3; Gaz. vol. 182; p. 10.
Clifton, Archer E., Connersville, Ind. Construction of rotary blowers and pumps. No. 1,021,180; Mar. 26; Sp. p. 4617; Gaz. vol. 176; p. 847.
Clifton, Harry, Canal Dover, Ohio. Steam-generator. No. 1,039,256; Sept. 24; Gaz. vol. 182; p. 791.
Clime, William L. R. (See Reiff, William H., assignor.)
Climie, William, Bo'ness, Scotland. Gas-producer. No. 1,040,148; Oct. 1; Gaz. vol. 183; p. 160.
Clindinin, William W., Chicago, Ill. Gas-burner. No. 1,047,385; Dec. 17; Gaz. vol. 185; p. 622.
Cline, Albert R., assignor of one-half to W. C. Swartley, Philadelphia, Pa. Railway-rail. No. 1,042,201; Oct. 22; Gaz. vol. 183; p. 954.
Cline, Asel. (See McFarlin and Cline.)
Cline, Clarence R. (See Jamison, Frank L., assignor.)
Cline, Edward S., Phoenixville, Pa. Boiler-cleaner. No. 1,022,063; Apr. 2; Sp. p. 660; Gaz. vol. 177; p. 105.
Cline, Frank J. (See Garber and Cline.)
Cline, George C., North Baltimore, Ohio. Journal-jack. No. 1,039,648; Sept. 24; Gaz. vol. 182; p. 928.
Cline, Hugh J., Arkansas City, Kans. Door-stop. No. 1,015,424; Jan. 23; Sp. p. 5158; Gaz. vol. 174; p. 886.
Cline, Isaac, Huntington, Ind. Brace for cross-arms of telegraph and telephone poles. No. 1,048,496; Dec. 31; Gaz. vol. 185; p. 1068.
Cline, Robert F., Moneta, Cal. Spice-mill. No. 1,029,792; June 18; Sp. p. 3743; Gaz. vol. 179; p. 659.
Clinger, Thomas H., assignor to himself and E. G. Schmidt, Philadelphia, Pa. Box-board cutting and scoring mechanism. No. 1,022,722; Apr. 9; Sp. p. 2090; Gaz. vol. 177; p. 359.
Clingwald, Gustaf A., assignor of one-half to T. J. Royer, Aqueduct, Cal. Electric indicating device for signals. No. 1,044,021; Nov. 12; Gaz. vol. 184; p. 374.
Clinker, Reginald C., Rugby, England, assignor to General Electric Company. Apparatus for determining the acceleration of rotating bodies. No. 1,024,183; Apr. 23; Sp. p. 5192; Gaz. vol. 177; p. 912.
Clinton Wire Cloth Company. (See Smith, Herbert L., assignor.)
Clintonville Baler Company. (See Splittgerber, Wilhelm, assignor.)
Clippinger, David H., Perkins, Cal. Trap. No. 1,031,984; July 9; Gaz. vol. 180; p. 435.
Clisby, Roy E., Wellington, Ohio. Electrically-heated sad-iron. No. 1,041,241; Oct. 15; Gaz. vol. 183; p. 596.
Clisby, Roy E., Wellington, Ohio. Sad-iron support. No. 1,045,123; Nov. 26; Gaz. vol. 184; p. 813.
Clizbe, Charles S., Amsterdam, N. Y. Music-rack and leaf-turner. No. 1,037,207; Sept. 3; Gaz. vol. 182; p. 10.
Cloetta, Otto, and F. Müller, Stuttgart, Germany. Respiration apparatus. No. 1,048,135; Dec. 24; Gaz. vol. 185; p. 909.
Clokey, Samuel J. (See Martin and Clokey.)
Cloman, Flora L., Sault Ste. Marie, Mich. Device for packing trunks. No. 1,047,500; Dec. 17; Gaz. vol. 185; p. 663.
Cloney, John T., *et al.* (See McIntosh, McClellan, assignor.)
Clontz, Joseph, and A. Bretz, Youngstown, Ohio. Cold-air machine. No. 1,037,728; Sept. 3; Gaz. vol. 182; p. 185.
Close, Charles E. (See Wagener, Edward A., assignor.)
Close, George E. (See Hamblin, Stephen M. and G. N., assignors.)
Clostermeyer, Edward C., St. Louis, Mo. Boat. No. 1,018,809; Feb. 27; Sp. p. 5733; Gaz. vol. 175; p. 989.
Clothmeter Manufacturing Company. (See Goessling, Pauk, Kachel, and Heckel, assignors.)
Cloud, David L., Greensboro, Ga. Cabinet and sterilizer. No. 1,032,882; July 16; Gaz. vol. 180; p. 784.
Cloud, John W., London, England. Means of transport. No. 1,044,022; Nov. 12; Gaz. vol. 184; p. 374.
Cloud, Newton H., Jr., Wilmington, Del. Gun. No. 1,031,526; July 2; Gaz. vol. 180; p. 235.
Clough, Frederick H., Rugby, England, assignor to General Electric Company. Shaft-bearing. No. 1,019,424; Mar. 5; Sp. p. 972; Gaz. vol. 176; p. 142.
Clough, James D., Lakewood, Ohio. Mixing-machine. No. 1,021,301; Mar. 26; Sp. p. 4870; Gaz. vol. 176; p. 889.
Clouse, Walter N., assignor to The National Machinery Co., Tiffin, Ohio. Tap-socket. No. 1,031,914; July 9; Gaz. vol. 180; p. 412.
Clouse, William L., assignor to National Machinery Company, Tiffin, Ohio. Fly-wheel. No. 1,015,476; Jan. 23; Sp. p. 5282; Gaz. vol. 174; p. 904.
Clouser, William, Dana, Ind. Corn harvester and husker. No. 1,014,812; Jan. 16; Sp. p. 3831; Gaz. vol. 174; p. 652.
Clouston, Herbert, Mohall, N. D. Gravity fuel-feeding device. No. 1,022,772; Apr. 9; Sp. p. 2191; Gaz. vol. 177; p. 376.
Clouston, John W., St. John's, Newfoundland. Drying apparatus for fish and the like. No. 1,033,153; July 23; Gaz. vol. 180; p. 914.
Cloutman, Carrie C., Leominster, Mass. Combination paper-towel holder. No. 1,043,671; Nov. 5; Gaz. vol. 184; p. 222.
Clow, Samuel C., Minneapolis, Minn. Hand shoe-shining device. No. 1,047,386; Dec. 17; Gaz. vol. 185; p. 622.
Clow, William E., Chicago, Ill. System of apparatus for casting pipe and other hollow articles. No. 1,025,123; May 7; Sp. p. 21; Gaz. vol. 178; p. 5.
Cluett, Peabody & Company. (See Schaller, Johannes H., assignor.)
Clulee, Stephen J., Attleboro, Mass., assignor to Bay State Optical Company. Eyeglasses. No. 1,048,497; Dec. 31; Gaz. vol. 185; p. 1068.
Clune, John H., Springfield, Mass. Pneumatic tire. No. 1,036,455; Aug. 20; Gaz. vol. 181; p. 768.
Clune, Michael. (See Thum, Umphrey, and Clune.)
Clune, Michael, Indianapolis, Ind. Sofa-bed. No. 1,027,183; May 21; Sp. p. 4655; Gaz. vol. 178; p. 782.
Clune, Michael, Indianapolis, Ind. Davenport. No. 1,043,068; Nov. 5; Gaz. vol. 184; p. 6.
Cluts, Oliver, W. Salisbury, and J. W. Turall, Cuba, Ill. Drilling-machine. No. 1,023,722; Apr. 16; Sp. p. 4142; Gaz. vol. 177; p. 727.
Clutter, Jay R., Mount Vernon, Ohio. Nest-egg. No. 1,032,741; July 16; Gaz. vol. 180; p. 738.
Clyde Iron Works. (See McGiffert, John R., assignor.)
Clyde Iron Works. (See Olds, Millard D., assignor.)
Clyne, Robert G., Upper Alton, Ill. Mechanical movement. No. 1,022,621; Apr. 9; Sp. p. 1835; Gaz. vol. 177; p. 321.
Co-Operative Syndicate. (See Hutchinson, Warren B., assignor.)
Coakley, Dennis X., assignor of one-half to J. W. Bean, Haverhill, Mass. Drinking-fountain. No. 1,034,384; July 30; Gaz. vol. 180; p. 1360.
Coalter, C. C., *et al.* (See Hogan, Thomas G., assignor.)
Coates, Albert O. (See Murray, Christopher A., assignor.)
Coates, Clinton T., St. Louis, Mo. Tire. No. 1,032,991; July 16; Gaz. vol. 180; p. 820.
Coates, Clinton T., St. Louis, Mo. Unicycle. No. 1,046,267; Dec. 3; Gaz. vol. 185; p. 163.
Coates, Emma F., Chattanooga, Tenn. Holder for ticket or check books. No. 1,042,324; Oct. 22; Gaz. vol. 183; p. 994.
Coates, Forbes H., Mead, Colo. Attachment for cultivators. No. 1,048,040; Dec. 24; Gaz. vol. 185; p. 876.
Coates, George D., Torrington, Conn. Repair-heel. No. 1,020,800; Mar. 19; Sp. p. 3821; Gaz. vol. 176; p. 669.
Coates, Harry E., Sacramento, Cal. Smoking device. No. 1,017,384; Feb. 13; Sp. p. 2551; Gaz. vol. 175; p. 431.
Coates, Leonard R., Baltimore, Md. Fertilizer and producing the same. No. 1,024,880; Apr. 30; Sp. p. 6755; Gaz. vol. 177; p. 1189.
Coates, Samuel L., Rickreall, Oreg. Attachment for apple-paring machines. No. 1,019,600; Mar. 5; Sp. p. 1325; Gaz. vol. 176; p. 200.
Coats, Henry B., Veedersburg, Ind. Automobile-wheel. No. 1,040,511; Oct. 8; Gaz. vol. 183; p. 313.
Coats, Henry B., Veedersburg, Ind. Spring-wheel. No. 1,040,512; Oct. 8; Gaz. vol. 183; p. 313.
Cobb, Albert B., Waterbury, Conn. Purifier for acetylene gas. No. 1,034,204; July 30; Gaz. vol. 180; p. 1295.

Alphabetical list of patentees—Continued.

Cobb, Henry Z., Chelsea, Mass. Machine for coating hose. No. 1,039,697; Oct. 1; Gaz. vol. 183; p. 8.
Cobb, James A., assignor to Hard Manufacturing Company, Buffalo, N. Y. Extension-couch. No. 1,048,943; Dec. 31; Gaz. vol. 185; p. 1224.
Cobb, Joseph M. (See Maddock and Cobb.)
Cobb, Lyman H., Fitchburg, Mass., assignor to M. E. Johnson, trustee. Firearm. No. 1,046,268; Dec. 3; Gaz. vol. 185; p. 164.
Cobb, Manuel E., assignor of one-half to J. F. Elder, Cleveland, Ohio. Vault-closure. No. 1,035,531; Aug. 13; Gaz. vol. 181; p. 413.
Cobb, William H., Sharon Hill, Pa. Show-case. No. 1,044,749; Nov. 19; Gaz. vol. 184; p. 655.
Cobban, Robert M., Missoula, Mont. Composition of matter. No. 1,034,979; Aug. 6; Gaz. vol. 181; p. 194.
Coberly, Oliver, *et al.* (See Truman, James A., assignor.)
Coble, Ernest L., Electra, Tex. Spring-wheel. No. 1,045,516; Nov. 26; Gaz. vol. 184; p. 952.
Coburn, George A., assignor to Draper Company, Hopedale, Mass. Take-up mechanism for looms. No. 1,023,994; Apr. 23; Sp. p. 4770; Gaz. vol. 177; p. 847.
Coburn, Howard L., assignor to Ambursen Hydraulic Construction Company, Boston, Mass. Reinforced-concrete dam. No. 1,033,988; July 30; Gaz. vol. 180; p. 1221.
Coburn Trolley Track Manufacturing Company. (See Ballard, Harry E., assignor.)
Cochran-Bly Company. (See Dow, Roy B., assignor.)
Cochran, Clarence S., assignor to The Octagon Die and Tool Company, Denver, Colo. Pipe-threading tool. No. 1,017,853; Feb. 20; Sp. p. 3586; Gaz. vol. 175; p. 629.
Cochran, Clyde E., Cleveland, Ohio, assignor to Anderson Electric Car Company, Detroit, Mich. Control mechanism for electric vehicles. No. 1,020,080; Mar. 12; Sp. p. 2278; Gaz. vol. 176; p. 392.
Cochran, Drugan & Co. (See Drugan and Schoenthaler, assignors.)
Cochran, Eugene S., *et al.* (See Galvin, Carroll D., assignor.)
Cochran, George F. (See Payne and Cochran.)
Cochran, Joseph E., Chicago, Ill. Weighing-scale. No. 1,020,744; Mar. 19; Sp. p. 3713; Gaz. vol. 176; p. 651.
Cochran, Wesley E., assignor to The Empire Brass Manufacturing Company, Cleveland, Ohio. Lighting device. No. 1,031,839; July 9; Gaz. vol. 180; p. 386.
Cock, Benjamin, assignor to Holman Brothers, Limited, Camborne, England. Front cover for rock-drills. No. 1,035,083; Aug. 6; Gaz. vol. 181; p. 227.
Cockburn, David, and D. MacNicoll, Cardonald, Glasgow, Scotland. Safety-valve. No. 1,026,734; May 21; Sp. p. 3619; Gaz. vol. 178; p. 629.
Cocksedge, Herbert E. (See Freeth and Cocksedge.)
Cocowitch, John F., assignor of one-half to J. G. Baskin, Dunnellon, Fla. Spring-wheel. No. 1,034,980; Aug. 6; Gaz. vol. 181; p. 194.
Coda, Christopher F., Detroit, Mich. Revoluble work-feeding chuck. No. 1,030,283; June 25; Sp. p. 4839; Gaz. vol. 179; p. 866.
Coda, Christopher F., assignor to The Art Stove Company, Detroit, Mich. Expansion-joint for integrally-cast structures. No. 1,040,623; Oct. 8; Gaz. vol. 183; p. 354.
Codd, William C., *et al.* (See Braddock, Isaac A., assignor.)
Codero, Ramón F., Rubio, Venezuela. Switch-shield. No. 1,015,138; Jan. 16; Sp. p. 4534; Gaz. vol. 174; p. 764.
Codero, Ramón F., Rubio, Venezuela. Indicator. No. 1,015,139; Jan. 16; Sp. p. 4535; Gaz. vol. 174; p. 765.
Codero, Ramón F., Rubio, Venezuela. Safety device for monorails. No. 1,015,140; Jan. 16; Sp. p. 4536; Gaz. vol. 174; p. 765.
Cody, Robert D., Detroit, Mich., assignor to S. Stein, New York, N. Y. Multiple-burner incandescent lamp. No. 1,032,325; July 9; Gaz. vol. 180; p. 551.
Cody, Thomas F., North Yakima, Wash. Railway-signal. No. 1,033,989; July 30; Gaz. vol. 180; p. 1222.
Coe, Charles E., assignor to W. F. Morrison, St. Louis, Mo. Automatic machine for cutting and forming belt-fasteners. No. 1,037,867; Sept. 10; Gaz. vol. 182; p. 263.
Coe, John W., Jr., Yonkers, N. Y. Electric alarm for mail-boxes. No. 1,025,738; May 7; Sp. p. 1395; Gaz. vol. 178; p. 218.
Coe, Sara L. W., and H. T. Werden, New York, N. Y. Vending-machine. No. 1,042,768; Oct. 29; Gaz. vol. 183; p. 1179.
Coene, Emile, *et al.* (See Garlick, Walter J., assignor.)
Coey, Stewart C., Youngstown, Ohio. Magnetic skelp-charging machine. No. 1,019,759; Mar. 12; Sp. p. 1638; Gaz. vol. 176; p. 285.
Coffee, Robert W., Richmond, Va., assignor to L. M. Keizer, Baltimore, Md. Internal-combustion engine. No. 1,037,868; Sept. 10; Gaz. vol. 182; p. 264.
Coffey, Barton H., Elizabeth, N. J., assignor to Mitchell-Tappen Company. Cooling-tower. No. 1,027,184; May 21; Sp. p. 4657; Gaz. vol. 178; p. 783.
Coffey, Nathaniel T., Niagara Falls, N. Y. Ironing-board. No. 1,039,649; Sept. 24; Gaz. vol. 182; p. 928.
Coffield Motor Washer Company, The. (See Coffield, Peter T., assignor.)
Coffield, Peter T., assignor to The Coffield Motor Washer Company, Dayton, Ohio. Hydraulic motor. No. 1,018,961; Feb. 27; Sp. p. 6042; Gaz. vol. 175; p. 1042.
Coffield, Peter T., assignor to The Coffield Motor Washer Company, Dayton, Ohio. Driving mechanism for laundry-machines. No. 1,036,192; Aug. 20; Gaz. vol. 181; p. 677.
Coffield, Peter T., assignor to The Coffield Motor Washer Co., Dayton, Ohio. Water-motor. No. 1,041,242; Oct. 15; Gaz. vol. 183; p. 596.
Coffin, Antoinette A., Cleveland, Ohio. Door-stop. No. 1,037,439; Sept. 3; Gaz. vol. 182; p. 89.
Coffin, Howard E. (See Taylor and Coffin.)
Coffin, Howard E., Detroit, Mich. Explosion-engine. No. 1,024,618; Apr. 30; Sp. p. 6209; Gaz. vol. 177; p. 1095.
Coffin, Howard E., Detroit, Mich. Explosion-engine. No. 1,024,619; Apr. 30; Sp. p. 6210; Gaz. vol. 177; p. 1096.
Coffin, Howard E., Detroit, Mich. Engine-valve construction. No. 1,032,466; July 16; Gaz. vol. 180; p. 642.
Coffin, Howard E., Detroit, Mich. Tank for motor-vehicles. No. 1,039,098; Sept. 24; Gaz. vol. 182; p. 734.
Coffin, Howard E., assignor to Chalmers-Detroit Motor Company, Detroit, Mich. Lubricator. No. 1,022,622; Apr. 9; Sp. p. 1836; Gaz. vol. 177; p. 321.
Coffin, Howard E., assignor to Chalmers Motor Company, Detroit, Mich. Bearing. No. 1,026,849; May 21; Sp. p. 3868; Gaz. vol. 178; p. 668.
Coffin, Howard E., assignor, by mesne assignments, to C. E. Wiffler, Detroit, Mich. Lubricator. No. 1,045,772; Nov. 26; Gaz. vol. 184; p. 1041.
Coffin, Howard E., and G. G. Behn, assignors, by mesne assignments, to The Reynolds Motor Company, Detroit, Mich. Rotary valve for explosion-engines. No. 1,034,877; Aug. 6; Gaz. vol. 181; p. 161.
Coffin, Walter E., assignor to The National Malleable Castings Company, Cleveland, Ohio. Engine-coupling. No. 1,025,785; May 7; Sp. p. 1481; Gaz. vol. 178; p. 234.
Coffin, Walter E., assignor to The National Malleable Castings Company, Cleveland, Ohio. Bracket for uncoupling-rods of car-couplings. No. 1,026,658; May 21; Sp. p. 3455; Gaz. vol. 178; p. 603.
Coffin, Walter E., assignor to The National Malleable Castings Company, Cleveland, Ohio. Railway-car truck. No. 1,049,209; Dec. 31; Gaz. vol. 185; p. 1314.
Coffman, Albert. (See Craig and Coffman.)
Coffman, Clifford B. (See Coffman, Clyde D. and C. B.)
Coffman, Clyde D. and C. B., Newark, N. J. Safety-razor-stropping device. No. 1,031,527; July 2; Gaz. vol. 180; p. 235.
Coffman, Jacob H., Philadelphia, Pa. Door stop and holder. No. 1,040,887; Oct. 8; Gaz. vol. 183; p. 442.
Cogburn, John C., Marietta, Ga. Drier. No. 1,034,205; July 30; Gaz. vol. 180; p. 1206.
Cogdill, Dallas J., Spokane, Wash. Vacuum-cleaner. No. 1,025,864; May 7; Sp. p. 1658; Gaz. vol. 178; p. 261.
Cogdill, William A., Stanberry, Mo. Salt-trough. No. 1,036,962; Aug. 27; Gaz. vol. 181; p. 970.
Cogger, William B., Cleveland, assignor to T. Kundtz, Lakewood, Ohio. Side standard for seats. No. 1,019,134; Mar. 5; Sp. p. 283; Gaz. vol. 176; p. 44.
Coggeshall, Charles A., Providence, R. I. Holder-reel. No. 1,023,816; Apr. 23; Sp. p. 4349; Gaz. vol. 177; p. 786.
Coggin, Frank F., assignor to Economy Car Heating Company, New York, N. Y. Car-heating system. No. 1,024,062; Apr. 23; Sp. p. 4911; Gaz. vol. 177; p. 870.
Coggin, Frank F., Matawan, N. J., assignor to The Economy Car Heating Company, New York, N. Y. Apparatus for diverting exhaust-steam. No. 1,042,398; Oct. 29; Gaz. vol. 183; p. 1047.
Coggin, Frank F., Matawan, N. J., and E. H. Gold, Chicago, Ill. Automatic controlling apparatus for steam-heating systems. No. 1,021,505; Mar. 26; Sp. p. 5336; Gaz. vol. 176; p. 961.
Coghlan, Michael W. (See McCourt and Coghlan.)
Cogland, Robert E. (See McClatchie, John M., assignor.)
Cogswell, Asa F., Kirwin, Kans. Inlay and bridge casting machine. No. 1,046,976; Dec. 10; Gaz. vol. 185; p. 447.
Cogswell, James A., Boston, Mass. Wood paving-block. No. 1,017,650; Feb. 20; Sp. p. 3094; Gaz. vol. 175; p. 559.
Cohen, Benjamin, New York, N. Y. Advertising device. No. 1,045,372; Nov. 26; Gaz. vol. 184; p. 899.
Cohen, Edgar. (See Favata, Francesco, assignor.)
Cohen, Henry, Buffalo, N. Y. Combined table and ironing-board. No. 1,046,977; Dec. 10; Gaz. vol. 185; p. 447.
Cohen, Ira R., New York, N. Y., assignor to The Meyrowitz Manufacturing Co. Guard for eyeglass-mountings. No. 1,032,814; July 16; Gaz. vol. 180; p. 762.
Cohen, Isidor, New York, N. Y. Collapsible receptacle. No. 1,037,132; Aug. 27; Gaz. vol. 181; p. 1027.
Cohen, Jacob, *et al.* (See Satter, Frank A., assignor.)
Cohen, Jacob N., Providence, R. I. Ventilator. No. 1,042,399; Oct. 29; Gaz. vol. 183; p. 1047.
Cohen, Joseph, *et al.* (See Satter, Frank A., assignor.)
Cohen, Louis. (See Gross and Cohen.)
Cohen, Simon, Hartford, Conn. Ash-sifter. No. 1,041,243; Oct. 15; Gaz. vol. 183; p. 596.

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Cohn, Herman, and P. Berman, New York, N. Y. Handbag. No. 1,039,489; Sept. 24; Gaz. vol. 182; p. 871.
Cohn, Jacob H., Cleveland, Ohio. Hat block, telescoper, and presser. No. 1,014,813; Jan. 16; Sp. p. 3834; Gaz. vol. 174; p. 652.
Cohn, Samuel, assignor to Machine Mantle Sewing Company, New York, N. Y. Mantle-tying machine. (Reissue.) No. 13,429; June 18; Sp. p. 4794; Gaz. vol. 179; p. 823.
Cohn, Samuel, New York, N. Y., assignor, by mesne assignments, to Mantle Machinery and Patents Company. Mantle-sewing machine. No. 1,046,269; Dec. 3; Gaz. vol. 185; p. 164.
Cohn, Samuel, assignor to Mantle Machinery & Patents Company, New York, N. Y. Manufacture of gas-mantles. No. 1,046,270; Dec. 3; Gaz. vol. 185; p. 164.
Cohon, Benjamin, Westwood, N. J. Cigarette-box. No. 1,028,438; June 4; Sp. p. 825; Gaz. vol. 179; p. 124.
Cohrs, Henry A., Currie, Minn. Wire-fence controller. No. 1,031,622; July 2; Gaz. vol. 180; p. 268.
Coin Controlled Lock Company. (See Farnsworth, Willis S., assignor.)
Cokel Company, The. (See Cooke, Ernest W., assignor.)
Colbath, William H., Natick, Mass. Edge-protector for the soles of boots and shoes. No. 1,041,029; Oct. 15; Gaz. vol. 183; p. 524.
Colbert, Arthur. (See Gillespie and Colbert.)
Colbert, Lucian R., Massaponax, Va. Automobile-door. No. 1,023,007; Apr. 9; Sp. p. 2668; Gaz. vol. 177; p. 455.
Colburn, Albert L., New Haven, Conn. Time-movement. No. 1,044,140; Nov. 12; Gaz. vol. 184; p. 413.
Colburn, Leslie H., Franklin, Pa. Automatic tripping device for the feed mechanism of machine-tools. No. 1,017,635; Feb. 13; Sp. p. 3061; Gaz. vol. 175; p. 516.
Colburn, Leslie H., and F. F. Clarke, Franklin, Pa. Currency-cutting machine. No. 1,044,990; Nov. 19; Gaz. vol. 184; p. 738.
Colburn, Serenus M. (See Mitchell and Colburn.)
Colburn, William H., Colorado Springs, Colo. Truck and brake for cable-railways. No. 1,036,075; Aug. 20; Gaz. vol. 181; p. 634.
Colburn, William H., Colorado Springs, Colo. Cable-railway. No. 1,044,496; Nov. 19; Gaz. vol. 184; p. 565.
Colby, Ernest S., Portland, Oreg., and L. Tinsley, Crawfordsville, Ind., assignors to Colby Manufacturing Company, Portland, Oreg. Fastener for straps for mail, books, &c. No. 1,044,024; Nov. 12; Gaz. vol. 184; p. 375.
Colby, Haldwell S. (See Machol, Morris R., assignor.)
Colby Manufacturing Company. (See Colby and Tinsley, assignors.)
Coldman, Henry C., Catford, and C. F. Webb, Lewisham, England. Mechanical player for musical instruments. No. 1,035,532; Aug. 13; Gaz. vol. 181; p. 413.
Coldman, Henry C., and C. F. Webb, Lewisham, England. Apparatus for mechanically operating musical instruments. No. 1,035,533; Aug. 13; Gaz. vol. 181; p. 414.
Coldman, Henry C., and C. F. Webb, Lewisham, England. Apparatus for mechanically operating musical instruments. No. 1,035,534; Aug. 13; Gaz. vol. 181; p. 414.
Coldwell, Harry T., Newburgh, N. Y. Tea-harvester. No. 1,024,499; Apr. 30; Sp. p. 5901; Gaz. vol. 177; p. 1055.
Coldwell, William H., Newburgh, N. Y. Clutch mechanism. No. 1,018,098; Feb. 20; Sp. p. 4159; Gaz. vol. 175; p. 715.
Coldwell, William H., Newburgh, N. Y. Lawn-mower. No. 1,039,490; Sept. 24; Gaz. vol. 182; p. 871.
Coldwell, William H., Newburgh, N. Y. Lawn-mower. No. 1,043,507; Nov. 5; Gaz. vol. 184; p. 166.
Coldwell, William H., Newburgh, N. Y. Motor lawn-mower. No. 1,048,498; Dec. 31; Gaz. vol. 185; p. 1069.
Coldwell, William H., Newburgh, N. Y. Motor lawn mower and roller. No. 1,048,499; Dec. 31; Gaz. vol. 185; p. 1069.
Cole, Alexander G., Ottawa, Ontario, Canada. Foldable frame for chairs, tables, or the like. No. 1,027,692; May 28; Sp. p. 5695; Gaz. vol. 178; p. 992.
Cole, Barrett C., Marshall, Wyo. Airship. No. 1,027,990; May 28; Sp. p. 6365; Gaz. vol. 178; p. 1093.
Cole, C. E. (See Willes, Charles, assignor.)
Cole, Calvin J., Jacksonville, Fla. Safety device for elevators. No. 1,022,386; Apr. 2; Sp. p. 1316; Gaz. vol. 177; p. 213.
Cole, Charles H., Pueblo, Colo. Sectional cylinder air-jack. No. 1,031,528; July 2; Gaz. vol. 180; p. 236.
Cole, Darrell V., Los Angeles, Cal. Flying-machine. No. 1,027,322; May 21; Sp. p. 4938; Gaz. vol. 178; p. 830.
Cole, David S., Washington, Iowa. Mailing-tube. No. 1,028,678; June 4; Sp. p. 1319; Gaz. vol. 179; p. 203.
Cole, David S., Washington, Iowa. Photo-shutter. No. 1,047,915; Dec. 24; Gaz. vol. 185; p. 837.
Cole, Dwight S., Grand Rapids, Mich. Turbine. No. 1,037,440; Sept. 3; Gaz. vol. 182; p. 89.
Cole, E. Roland. (See Hunter, Charles, assignor.)
Cole, Edward S., Montclair, N. J. Hydraulic traverse mechanism. No. 1,025,111; Apr. 30; Sp. p. 7223; Gaz. vol. 177; p. 1266.
Cole, Edward S., New York, N. Y. Mechanism for use in connection with flowing streams. No. 1,041,432; Oct. 15; Gaz. vol. 183; p. 660.
Cole, Eli T., Richmond, Va. Brick-cleaning machine. No. 1,031,107; July 2; Gaz. vol. 180; p. 91.
Cole, Elisha W., Richmond, Va. Razor and blade stropper. No. 1,025,963; May 14; Sp. p. 1912; Gaz. vol. 178; p. 329.
Cole, Ernest E., Chicago, Ill. Envelop. No. 1,039,899; Oct. 1; Gaz. vol. 183; p. 77.
Cole, Eugene M., Charlotte, N. C. Driving mechanism for planters. No. 1,029,592; June 18; Sp. p. 3304; Gaz. vol. 179; p. 587.
Cole, Eugene W., Edgemont, S. D. Train-register. No. 1,044,141; Nov. 12; Gaz. vol. 184; p. 413.
Cole, Francis J., Schenectady, N. Y. Reverse-gear for steam-engines. No. 1,023,995; Apr. 23; Sp. p. 4773; Gaz. vol. 177; p. 847.
Cole, Francis J., Schenectady, N. Y. Locomotive-engine. No. 1,024,620; Apr. 30; Sp. p. 6212; Gaz. vol. 177; p. 1096.
Cole, Francis J., and W. E. Woodard, Schenectady, N. Y. Valve-stem guide for locomotives. No. 1,036,800; Aug. 27; Gaz. vol. 181; p. 916.
Cole, Francis L., Indianapolis, Ind. Draw-bar construction. No. 1,047,916; Dec. 24; Gaz. vol. 185; p. 837.
Cole, Frank A., Patton, Pa. Moving-picture machine. No. 1,024,975; Apr. 30; Sp. p. 6943; Gaz. vol. 177; p. 1221.
Cole, Franklin, Pontiac, Mich. Antirattler for automobile-doors, &c. No. 1,037,593; Sept. 3; Gaz. vol. 182; p. 140.
Cole, Frederick W., Newton, Mass., assignor to The Gamewell Fire-Alarm Telegraph Company, New York, N. Y. Auxiliarized fire-alarm box. No. 1,016,401; Feb. 6; Sp. p. 370; Gaz. vol. 175; p. 58.
Cole, Frederick W., Newton, Mass., assignor to Gamewell Fire-Alarm Telegraph Company, New York, N. Y. Electric signaling device. No. 1,040,149; Oct. 1; Gaz. vol. 183; p. 160.
Cole, Henry L., Buffalo, N. Y. Telescope-level. No. 1,032,379; July 16; Gaz. vol. 180; p. 614.
Cole, James T., Baskerville, Va. Curtain-support. No. 1,023,069; Apr. 9; Sp. p. 2800; Gaz. vol. 177; p. 476.
Cole, John A., New York, N. Y. Quick-action electric switch. No. 1,045,773; Nov. 26; Gaz. vol. 184; p. 1042.
Cole, John C., assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Tire-holder. No. 1,032,659; July 16; Gaz. vol. 180; p. 709.
Cole, John C., assignor to Fisk Rubber Company, Chicopee Falls, Mass. Demountable rim. No. 1,040,275; Oct. 8; Gaz. vol. 183; p. 232.
Cole, Joseph F., Elkhart, Ind., assignor to National Recording Lock Company, Portland, Me. Recording door-lock. No. 1,043,069; Nov. 5; Gaz. vol. 184; p. 6.
Cole, Leslie P., Jr., Weehawken, N. J. Automatic truck-body lifter. No. 1,049,210; Dec. 31; Gaz. vol. 185; p. 1314.
Cole, Llewellyn W., assignor to Eagle Square Manufacturing Company, South Shaftsbury, Vt. Square. No. 1,013,986; Jan. 9; Sp. p. 2006; Gaz. vol. 174; p. 339.
Cole, Louis R., New York, N. Y. Register for pumps. No. 1,048,041; Dec. 24; Gaz. vol. 185; p. 877.
Cole, Milton E., assignor of one-sixth to C. A. Smith, one-sixth to A. Burnett, one-sixth to E. L. Scrote, and one-sixth to J. R. Rowlett, Akron, and one-sixth to F. E. Hoots, Cuyahoga Falls, Ohio. Starting device for explosive-engines. No. 1,043,399; Nov. 5; Gaz. vol. 184; p. 126.
Cole, Noel S., Newbern, Tenn. Belt-flight. No. 1,023,008; Apr. 9; Sp. p. 2670; Gaz. vol. 177; p. 455.
Cole, Raymond T., South Portland, Me. Graphite metal and producing it. No. 1,022,465; Apr. 9; Sp. p. 1508; Gaz. vol. 177; p. 270.
Cole, Robert C., West Hartford, assignor to The Johns-Pratt Company, Hartford, Conn. Fuse-block contact-post. No. 1,014,950; Jan. 16; Sp. p. 4163; Gaz. vol. 174; p. 700.
Cole, Robert C., West Hartford, assignor to The Johns-Pratt Company, Hartford, Conn. Combined fuse contact-clip and terminal holder. No. 1,025,245; May 7; Sp. p. 299; Gaz. vol. 178; p. 49.
Cole, Robert C., West Hartford, assignor to The Johns-Pratt Company, Hartford, Conn. Fuse-block clip. No. 1,025,246; May 7; Sp. p. 300; Gaz. vol. 178; p. 49.
Cole, Robert C., West Hartford, assignor to The Johns-Pratt Company, Hartford, Conn. Inclosed fuse. No. 1,025,247; May 7; Sp. p. 302; Gaz. vol. 178; p. 50.
Cole, Robert C., assignor to The Johns-Pratt Company, Hartford, Conn. Fuse-block. No. 1,032,188; July 9; Gaz. vol. 180; p. 503.
Cole, Robert C., assignor to The Johns-Pratt Company, Hartford, Conn. Fused disconnecting-switch. No. 1,039,257; Sept. 24; Gaz. vol. 182; p. 791.
Cole, Robert C., West Hartford, assignor to The Johns-Pratt Company, Hartford, Conn. Indicator for inclosed fuses. No. 1,040,150; Oct. 1; Gaz. vol. 183; p. 161.
Cole, Robert C., assignor to The Johns-Pratt Company, Hartford, Conn. Open-link-fuse carrier. No. 1,040,151; Oct. 1; Gaz. vol. 183; p. 161.
Cole, Samuel J., High Spire, Pa. Music-leaf turner. No. 1,036,963; Aug. 27; Gaz. vol. 181; p. 970.

Alphabetical list of patentees—Continued.

Cole, Stanton W., London, England. Wort-regulator for mash-tuns. No. 1,041,433; Oct. 15; Gaz. vol. 183; p. 660.
Cole, Warren W., assignor to The E. T. Burrowes Company, Portland, Me. Metal fly-screen. No. 1,017,958; Feb. 20; Sp. p. 3842; Gaz. vol. 175; p. 666.
Cole, Wilbur F., Grover Hill, Ohio. Combined clod crusher and pulverizer. No. 1,044,860; Nov. 19; Gaz. vol. 184; p. 692.
Cole, William C., Baltic, Mich. Wrench. No. 1,030,232; June 18; Sp. p. 4704; Gaz. vol. 179; p. 809.
Colegrove, Charles E., East Cleveland, assignor to The White Sewing Machine Company, Cleveland, Ohio. Ball-retainer. No. 1,036,569; Aug. 27; Gaz. vol. 181; p. 840.
Coleman, Allan J., Pittsburgh, Pa. Force and suction pump. No. 1,040,276; Oct. 8; Gaz. vol. 183; p. 232.
Coleman, Caloway H., Shawanee, Tenn. Combined sign and bulletin board. No. 1,044,750; Nov. 19; Gaz. vol. 184; p. 656.
Coleman, Christian, Reedy, W. Va. Gate. No. 1,025,370; May 7; Sp. p. 590; Gaz. vol. 178; p. 91.
Coleman, Clarence, Newcastle, Ind. Base-shield for pianos. No. 1,028,544; June 4; Sp. p. 1045; Gaz. vol. 179; p. 159.
Coleman, Clarence W., Westfield, N. J., assignor to The Hall Signal Company. Electromagnet. No. 1,015,992; Jan. 30; Sp. p. 6374; Gaz. vol. 174; p. 1110.
Coleman, Clarence W., Westfield, N. J., assignor to The Hall Signal Company. Railway signaling apparatus. No. 1,029,275; June 11; Sp. p. 2601; Gaz. vol. 179; p. 442.
Coleman, Clarence W., deceased; K. Coleman, administratrix, Westfield, N. J., assignor to The Hall Signal Company. Electric contact device. No. 1,024,718; Apr. 30; Sp. p. 6421; Gaz. vol. 177; p. 1131.
Coleman, Clarence W., deceased; K. Coleman, administratrix, Westfield, N. J., assignor to The Hall Signal Company. Electric contact device. No. 1,024,719; Apr. 30; Sp. p. 6423; Gaz. vol. 177; p. 1131.
Coleman, Clyde J., New York, N. Y. Refrigerating apparatus. No. 1,014,120; Jan. 9; Sp. p. 2304; Gaz. vol. 174; p. 384.
Coleman, Clyde J., New York, N. Y. Fuel-burning apparatus. No. 1,024,925; Apr. 30; Sp. p. 6854; Gaz. vol. 177; p. 1205.
Coleman, Clyde J., New York, N. Y., assignor to The Hall Signal Company. Traffic-controlling system for railways. No. 1,025,371; May 7; Sp. p. 592; Gaz. vol. 178; p. 92.
Coleman, Clyde J., assignor to C. Hubert, New York, N. Y. Needle-valve. No. 1,038,527; Sept. 17; Gaz. vol. 182; p. 523.
Coleman, Clyde J., assignor to M. P. Hall, New York, N. Y. Sewing-machine. No. 1,038,853; Sept. 17; Gaz. vol. 182; p. 637.
Coleman, Clyde J., New York, N. Y., assignor to The Hall Switch and Signal Company. Railway signaling system. No. 1,047,917; Dec. 24; Gaz. vol. 185; p. 837.
Coleman, Edgar P., deceased, Buffalo, N. Y.; R. H. Coleman, administrator. Fluid-meter. No. 1,020,127; Mar. 12; Sp. p. 2383; Gaz. vol. 176; p. 408.
Coleman, James M., Westmount, Quebec, Canada. Car construction. No. 1,026,945; May 21; Sp. p. 4125; Gaz. vol. 178; p. 703.
Coleman, James M., Westmount, Quebec, Canada. Dump-car construction. No. 1,027,241; May 21; Sp. p. 4775; Gaz. vol. 178; p. 803.
Coleman, James M., Westmount, Quebec, Canada. Dump-car construction. No. 1,048,042; Dec. 24; Gaz. vol. 185; p. 877.
Coleman, John A. (See Hoover and Coleman.)
Coleman, John P. (See Allen and Coleman.)
Coleman, John P., Edgewood Park, assignor to The Union Switch & Signal Company, Swissvale, Pa. Clutch device. No. 1,035,535; Aug. 13; Gaz. vol. 181; p. 415.
Coleman, Katharine, administratrix. (See Coleman, Clarence W.)
Coleman, R. J., *et al.* (See Miller, Charles K., assignor.)
Coleman, Robert F., Philadelphia, Pa. Spring-joint for trolley-poles. No. 1,028,189; June 4; Sp. p. 295; Gaz. vol. 179; p. 38.
Coleman, Robert F., asignor to Strawbridge & Chase Co., Inc., Philadelphia, Pa. Wire-bending pliers. No. 1,048,809; Dec. 31; Gaz. vol. 185; p. 1179.
Coleman, Robert H., administrator. (See Coleman, Edgar P.)
Coleman, Robert J. (See McMullan, David S., assignor.)
Coleman, William L., Barton, N. D. Wrench. No. 1,045,949; Dec. 3; Gaz. vol. 185; p. 52.
Coleridge Commercial Car Company. (See Coleridge, John G., assignor.)
Coleridge, John G., assignor to Coleridge Commercial Car Company, Detroit, Mich. Transmission mechanism. No. 1,037,869; Sept. 10; Gaz. vol. 182; p. 264.
Coles, David H., Brooklyn, N. Y., assignor, by mesne assignments, to Requa Motor Company. Internal-combustion engine. No. 1,026,563; May 14; Sp. p. 3224; Gaz. vol. 178; p. 533.
Coles, David H., Brooklyn, N. Y., and F. Charavay, Jersey City, N. J., assignors, by mesne assignments, to Requa Motor Company. Internal-combustion engine. No. 1,020,128; Mar. 12; Sp. p. 2392; Gaz. vol. 176; p. 408.
Coles, Howard. (See Austin and Coles.)
Coley, Robert L., Kannapolis, assignor of one-half to J. W. Cannon, Concord, N. C. Thread-cutting attachment for sewing-machines. No. 1,047,887; Dec. 17; Gaz. vol. 185; p. 798.
Colfax Manufacturing Company. (See Brown, Eugene, assignor.)
Colgan, Edward H., Little Rock, Ark. Cultivator. No. 1,044,497; Nov. 19; Gaz. vol. 184; p. 565.
Colgan, William H., Newton, Mass. Wall-base for electrical switches. No. 1,014,692; Jan. 16; Sp. p. 3573; Gaz. vol. 174; p. 611.
Colgate, Florance H., New York, N. Y. Collapsible box. No. 1,044,023; Nov. 12; Gaz. vol. 184; p. 375.
Coll, Frank B., Tornado, W. Va. Folding umbrella. No. 1,042,088; Oct. 22; Gaz. vol. 183; p. 917.
Collar, Adoniram J., Yreka, Cal. Faucet. No. 1,040,624; Oct. 8; Gaz. vol. 183; p. 354.
Collard, David E., Jefferson, Colo. Ignition apparatus for explosive-engines. No. 1,035,318; Aug. 13; Gaz. vol. 181; p. 340.
Collard, George L., Sharon, Pa. Briqueting flue-dust. No. 1,047,174; Dec. 17; Gaz. vol. 185; p. 545.
Colleen, Ivar H. P., Stuart, Iowa. Copy-holder. No. 1,028,097; June 4; Sp. p. 9; Gaz. vol. 179; p. 4.
College, Clarence W. (See Blake and College.)
Collet, Albert, assignor to Société Maurice et Pierre Collet & Cie., Paris, France. Portable machine for regrooving railway-sleepers. No. 1,021,400; Mar. 26; Sp. p. 5112; Gaz. vol. 176; p. 925.
Collett, Earl R., Pittsburgh, Pa. Cuff-button. No. 1,044,354; Nov. 12; Gaz. vol. 184; p. 488.
Collette, Arthur, Brockton, Mass. Vehicle-spring. No. 1,026,496; May 14; Sp. p. 3100; Gaz. vol. 178; p. 512.
Colley, John W., and E. G. Walter, Elkhart, Ind. Line-connecting device for floats and sinkers. No. 1,019,950; Mar. 12; Sp. p. 2020; Gaz. vol. 176; p. 349.
Collier, Clyde F., Lakeville, assignor of one-half to J. C. Lake, Big Prairie, Ohio. Stovepipe-lock. No. 1,015,542; Jan. 23; Sp. p. 5405; Gaz. vol. 174; p. 926.
Collier, David R., assignor to Collier-Keyworth Company, Gardner, Mass. Perambulator. No. 1,026,735; May 21; Sp. p. 3621; Gaz. vol. 178; p. 629.
Collier, David R., Gardner, assignor to Collier-Keyworth Co., Worcester, Mass. Perambulator. No. 1,037,173; Aug. 27; Gaz. vol. 181; p. 1041.
Collier, Frank A., Galveston, Tex. Combination coat and pants hanger. No. 1,018,299; Feb. 20; Sp. p. 4565; Gaz. vol. 175; p. 784.
Collier, Guy B. (See Wales, Nathaniel B., assignor.)
Collier, Guy B. (See Wales and Collier.)
Collier, Guy B., Kinderhook, N. Y. Internal-combustion motor. No. 1,040,277; Oct. 8; Gaz. vol. 183; p. 232.
Collier, Guy B., Kinderhook, N. Y. Heating apparatus. No. 1,043,508; Nov. 5; Gaz. vol. 184; p. 167.
Collier, Guy B., Kinderhook, N. Y. Elastic-fluid turbine. No. 1,047,918; Dec. 24; Gaz. vol. 185; p. 838.
Collier-Keyworth Company. (See Collier, David R., assignor.)
Collier, Oliver F., *et al.* (See Honigmann, Hans, assignor.)
Collier, William D., Marco, Fla. Clam-digger. No. 1,019,601; Mar. 5; Sp. p. 1328; Gaz. vol. 176; p. 200.
Collin, George W., Bridgeport, Conn. Steam-strainer. No. 1,033,544; July 23; Gaz. vol. 180; p. 1044.
Collin, George W., Mansfield, Ohio, assignor to The Collin Valve Company, Portland, Me. Flushing-valve. No. 1,027,818; May 28; Sp. p. 5958; Gaz. vol. 178; p. 1034.
Collin, George W., Bridgeport, Conn., assignor to The Collin Valve Company, Portland, Me. Flusher-valve. No. 1,027,819; May 28; Sp. p. 5962; Gaz. vol. 178; p. 1034.
Collin, George W., Bridgeport, Conn., assignor to The Collin Valve Company, Portland, Me. Electrically-operated valve. No. 1,033,542; July 23; Gaz. vol. 180; p. 1043.
Collin, George W., Bridgeport, Conn., assignor to The Collin Valve Company, Portland, Me. Electric solenoid. No. 1,033,543; July 23; Gaz. vol. 180; p. 1043.
Collin, Marcel, Paris, France. Converter for the separation of the fixed and volatile metals in complex ores. No. 1,033,062; July 16; Gaz. vol. 180; p. 845.
Collin Valve Company, The. (See Collin, George W., assignor.)
Collinet, Henry, Chicago, Ill. Gasolene-engine. No. 1,033,783; July 30; Gaz. vol. 180; p. 1147.
Collins Axle Manufacturing Company. (See Collins, Dennis P., assignor.)
Collins, Charles E., New York, N. Y. Gearing. No. 1,044,991; Nov. 19; Gaz. vol. 184; p. 739.
Collins, Cornelius, Burlingame, Cal. Fireproof building construction. No. 1,027,641; May 28; Sp. p. 5577; Gaz. vol. 178; p. 975.
Collins, Dennis P., Pittsburgh, Pa. Speed-changing and transmission gearing. No. 1,033,082; July 23; Gaz. vol. 180; p. 889.

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Collins, Dennis P., Pittsburgh, Pa. Speed-changing and transmission gearing. No. 1,033,083; July 23; Gaz. vol. 180; p. 889.
Collins, Dennis P., assignor to Collins Axle Manufacturing Company, Pittsburgh, Pa. Speed-changing and transmission gearing. No. 1,033,084; July 23; Gaz. vol. 180; p. 889.
Collins, Edward E., Detroit, Mich. Window-cleaner and glass-polisher. No. 1,017,081; Feb. 13; Sp. p. 1915; Gaz. vol. 175; p. 328.
Collins, Frank, *et al.* (See Nagel, William G., assignor.)
Collins, Frank, Lynnville, Tenn. Whiffletree-hook. No. 1,028,545; June 4; Sp. p. 1047; Gaz. vol. 179; p. 159.
Collins, Frank H., assignor of one-third to B. E. Harcourt and one-third to W. P. O'Grady, Medina, N. Y. Apparatus for cooling car-journals. No. 1,019,760; Mar. 12; Sp. p. 1639; Gaz. vol. 176; p. 286.
Collins, Frank J., Topeka, Kans. Invalid's table. No. 1,028,932; June 11; Sp. p. 1885; Gaz. vol. 179; p. 325.
Collins, George F. (See Overmyer and Collins.)
Collins, George L., Hickman, Ky. Emergency operating device for air-brakes. No. 1,045,260; Nov. 26; Gaz. vol. 184; p. 860.
Collins, Harry, New York, N. Y. Rail. No. 1,039,029; Sept. 17; Gaz. vol. 182; p. 694.
Collins, Herbert G., assignor to Sargent & Company, New Haven, Conn. Casket-handle. No. 1,019,761; Mar. 12; Sp. p. 1641; Gaz. vol. 176; p. 286.
Collins, Herbert G., assignor to Sargent & Company, New Haven, Conn. Knob. No. 1,026,148; May 14; Sp. p. 2334; Gaz. vol. 178; p. 394.
Collins, Herbert G., assignor to Sargent & Company, New Haven, Conn. Tortilla-molding machine. No. 1,031,423; July 2; Gaz. vol. 180; p. 201.
Collins, Herbert G., assignor to Sargent & Company, New Haven, Conn. Box-screw. No. 1,036,570; Aug. 27; Gaz. vol. 181; p. 841.
Collins, Jacob, assignor of one-half to W. J. Travers, Olinda, Cal. Treating petroleum. No. 1,028,439; June 4; Sp. p. 826; Gaz. vol. 179; p. 125.
Collins, James H., Harrisburg, Pa. Cross-tie. No. 1,020,886; Mar. 19; Sp. p. 3999; Gaz. vol. 176; p. 697.
Collins, James H., Harrisburg, Pa. Cross-tie. No. 1,032,045; July 9; Gaz. vol. 180; p. 455.
Collins, James K., Pawhuska, Okla. Wagon. No. 1,027,820; May 28; Sp. p. 5964; Gaz. vol. 178; p. 1035.
Collins, John A., Verona, Pa., assignor to Pittsburg Screw & Bolt Company. Bolt-trimming machine. No. 1,042,089; Oct. 22; Gaz. vol. 183; p. 918.
Collins, John C., assignor to Gus V. Brecht Butchers' Supply Company, St. Louis, Mo. Sausage-linking machine. No. 1,033,154; July 23; Gaz. vol. 180; p. 914.
Collins, John S., Lewistown, Pa. Pallet-cleaning machine. No. 1,045,677; Nov. 26; Gaz. vol. 184; p. 1009.
Collins, John W., Brooklyn, N. Y. Pasting device. No. 1,042,325; Oct. 22; Gaz. vol. 183; p. 995.
Collins, Kittie. (See Kohler, Joseph, assignor.)
Collins Metallic Packing Company, The. (See Conniff, Philip, assignor.)
Collins, Robert J., Sioux City, Iowa. Spring. No. 1,037,729; Sept. 3; Gaz. vol. 182; p. 185.
Collins, Roy A., Gerster, Mo. Automatic baling-machine. No. 1,040,278; Oct. 8; Gaz. vol. 183; p. 233.
Collins, Roy V., assignor to American Automatic Switch Company, New York, N. Y. Moisture-proof packing. (Reissue.) No. 13,409; Apr. 30; Sp. p. 7231; Gaz. vol. 177; p. 1267.
Collins, Stephen O. H., and H. V. Pearce, London, England. Means for indicating the striking force of golf-clubs or similar instruments. No. 1,039,491; Sept. 24; Gaz. vol. 182; p. 872.
Collins, Thomas, and L. H. Hartmann, assignors to American Separator Company, Bainbridge, N. Y. Gearing. No. 1,042,769; Oct. 29; Gaz. vol. 183; p. 1179.
Collins, Thomas E., Chicago, Ill. Fire-door. No. 1,029,912; June 18; Sp. p. 4035; Gaz. vol. 179; p. 701.
Collins, Walter L., Milford, Mass. Metallic reinforcement for walls. No. 1,029,106; June 11; Sp. p. 2255; Gaz. vol. 179; p. 385.
Collins, Wilbur L., assignor to Newark Wagon Company, Newark, N. Y. Dump-wagon. No. 1,013,929; Jan. 9; Sp. p. 1884; Gaz. vol. 174; p. 321.
Collins, Wilbur L., assignor to D. W. Crowley, Newark, N. Y. Dump-wagon. No. 1,029,343; June 11; Sp. p. 2774; Gaz. vol. 179; p. 467.
Collins, William A., Chicago, Ill. Deformed reinforcing-bar for concrete. No. 1,016,984; Feb. 13; Sp. p. 1686; Gaz. vol. 175; p. 294.
Collinson, Clifford W. (See Krüger and Collinson.)
Collinson, James A. (See Kendal and Collinson.)
Collis Company, The. (See Collis, George, assignor.)
Collis, George, assignor to The Collis Company, Dubuque, Iowa. Fabric-singeing machine. No. 1,043,672; Nov. 5; Gaz. vol. 184; p. 222.
Collis, Henry J., Taunton, Mass. Bill-fold. No. 1,026,787; May 21; Sp. p. 3737; Gaz. vol. 178; p. 647.
Collis, Henry J., Taunton, Mass. Ankle support and protector. No. 1,037,441; Sept. 3; Gaz. vol. 182; p. 90.
Collis, Henry J., Taunton, Mass. Fob-strap. No. 1,039,900; Oct. 1; Gaz. vol. 183; p. 77.
Collis, Henry J., Taunton, Mass. Ankle support and protector. No. 1,040,279; Oct. 8; Gaz. vol. 183; p. 233.
Collison, George A., Burlington, Vt. Wheel-puller. No. 1,043,400; Nov. 5; Gaz. vol. 184; p. 127.
Collister, John H., Cleveland, Ohio. Combined adjustable pliers and wrench. No. 1,027,693; May 28; Sp. p. 5697; Gaz. vol. 178; p. 992.
Collister, Lloyd W., Farmington, Iowa. Making calcimine. No. 1,021,136; Mar. 26; Sp. p. 4518; Gaz. vol. 176; p. 833.
Collom, Frank, New Orleans, La. Pile. No. 1,044,992; Nov. 19; Gaz. vol. 184; p. 739.
Collon, Eugène L., Cannes, France. Machine for folding linen, cloth, and other materials. No. 1,031,915; July 9; Gaz. vol. 180; p. 412.
Colman, Frank B. (See Fryer, Robert M., assignor.)
Colman, Howard D., assignor to Barber-Colman Company, Rockford, Ill. Knot-tying mechanism. No. 1,029,853; June 18; Sp. p. 3905; Gaz. vol. 179; p. 680.
Colman, Howard D., assignor to Barber-Colman Company, Rockford, Ill. Doffer. No. 1,044,993; Nov. 19; Gaz. vol. 184; p. 739.
Colman, James. (See Wolffenstein and Colman.)
Colman, William H., Paducah, Ky. Churn-operating mechanism. No. 1,030,873; July 2; Gaz. vol. 180; p. 9.
Colombier, Maurice F. D. de, Paris, France. Propelling mechanism for aerocraft. No. 1,031,623; July 2; Gaz. vol. 180; p. 268.
Colona Manufacturing Company. (See Shrum, Rae, and Ripper, assignors.)
Colonial Fast Color Tipping Company. (See Gallison, Ernest A., assignor.)
Colonial Fireplace Co. (See Guy, Walter W., assignor.)
Colonial Trust Company, The, trustee. (See Crist, Mark B., assignor.)
Colonial Trust Company, The. (See Debes, Victor A., assignor.)
Colonial Trust Company, The. (See Snyder, John E., assignor.)
Colonial Trust Company, The. (See Sweet, Charles E., assignor.)
Colonial Trust Company, The, trustee. (See Armstead, Frank C., assignor.)
Colonial Trust Company, The, trustee. (See Bole, William A., assignor.)
Colonial Trust Company, The, trustee. (See Clarke, Athol W., assignor.)
Colonial Trust Company, The, trustee. (See Crist and Wells, assignors.)
Colonial Trust Company, The, trustee. (See Ehrhart, Raymond N., assignor.)
Colonial Trust Company, The, trustee. (See Flanders, Warren B., assignor.)
Colonial Trust Company, The, trustee. (See Green, Jonathan S., assignor.)
Colonial Trust Company, The, trustee. (See Hodgkinson, Francis, assignor.)
Colonial Trust Company, The, trustee. (See Kasley, Alexander T., assignor.)
Colonial Trust Company, The, trustee. (See Lea, Henry I., assignor.)
Colonial Trust Company, The, trustee. (See Seaver, Edward, Jr., assignor.)
Colonial Trust Company, The, trustee. (See Sweet, Charles E., assignor.)
Colorado-Yule Marble Co. (See Eggers, Ernest, assignor.)
Colounese, Frank, and C. Boccia, New York, N. Y. Alarm door-knob. No. 1,030,841; June 25; Sp. p. 6417; Gaz. vol. 179; p. 1068.
Colpitts, Edwin H., East Orange, N. J., assignor to Western Electric Company, New York, N. Y. Connecting-circuit for magneto telephone-exchange systems. No. 1,029,593; June 18; Sp. p. 3305; Gaz. vol. 179; p. 587.
Colpitts, Walter W., Kansas City, Mo. Dam. No. 1,047,501; Dec. 17; Gaz. vol. 185; p. 663.
Colson, Henry H. (See Browne and Colson.)
Colson, Henry H., Everett, Mass. Grease-gun. No. 1,040,513; Oct. 8; Gaz. vol. 183; p. 314.
Colt, Frank, assignor of one-half to B. O. Skonnord, Wallace, Idaho. Shoe-lace guard. No. 1,039,030; Sept. 17; Gaz. vol. 182; p. 695.
Coltharp, Albert S. (See Hazel and Coltharp.)
Columbia Chemical Company. (See Galt, Hugh A., assignor.)
Columbia Meter Company. (See Scheeffer, Gustave A., assignor.)
Columbia Motor Car Company, The. (See Fiske, Henry G., assignor.)
Columbia Motor Car Company, The. (See Keyes, James A., assignor.)
Columbia Novelty Mfg. Co. (See Graham, David T., assignor.)
Columbia Nut and Bolt Company. (See Meredith-Jones, Hubert, assignor.)
Columbia Postal Supply Company. (See Ielfield, Fred C., assignor.)
Columbus Realty Company. (See Jones, Edward S., assignor.)
Colvin, George A., Coquille, Oreg. Crosscut-saw gage. No. 1,023,550; Apr. 16; Sp. p. 3813; Gaz. vol. 177; p. 673.

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Colwell, Ulysses G., Paha, Wash. Weeder. No. 1,046,271; Dec. 3; Gaz. vol. 185; p. 165.
Colwell, William E., Kincardine, Ontario, Canada. Pneumatic hammer for driving nails. No. 1,014,639; Jan. 16; Sp. p. 3453; Gaz. vol. 174; p. 593.
Combs, John R., Portsmouth, Ohio. Jews'-harp. No. 1,044,025; Nov. 12; Gaz. vol. 184; p. 375.
Combs, William L., and J. A. Kerber, Belfry, Mont. Ditching-machine. No. 1,020,911; Mar. 19; Sp. p. 4042; Gaz. vol. 176; p. 706.
Comeau, Frank, Louisburg, Nova Scotia, Canada. Clothespin. No. 1,030,386; June 25; Sp. p. 5072; Gaz. vol. 179; p. 904.
Comee, George W., Waseca, Minn. Coffin-fastener. No. 1,044,498; Nov. 19; Gaz. vol. 184; p. 566.
Comer, John J., New York, N. Y. Lock for gas-cocks. No. 1,016,872; Feb. 6; Sp. p. 1411; Gaz. vol. 175; p. 218.
Comer, John J., assignor to Automatic Enunciator Company, Chicago, Ill. Differential microphone-transmitter. No. 1,033,085; July 23; Gaz. vol. 180; p. 890.
Comer, John J., assignor to Automatic Enunciator Company, Chicago, Ill. Differential microphone-transmitter. No. 1,033,086; July 23; Gaz. vol. 180; p. 890.
Comer, John J., assignor to Automatic Enunciator Company, Chicago, Ill. Differential microphone-transmitter. No. 1,033,087; July 23; Gaz. vol. 180; p. 891.
Comfort, Edward W., Chicago, Ill. Thermostatic regulating device. No. 1,040,625; Oct. 8; Gaz. vol. 183; p. 355.
Comfort, Edward W., Chicago, Ill., assignor to American Moistening Company, Boston, Mass. Thermostatic regulating device. No. 1,032,189; July 9; Gaz. vol. 180; p. 504.
Comfort, Edward W., Chicago, Ill., and W. H. Carrier, assignors to Buffalo Forge Company, Buffalo, N. Y. Differential thermostatic device. No. 1,018,551; Feb. 27; Sp. p. 5198; Gaz. vol. 175; p. 904.
Comings, William R., Wharncliffe, Wimbledon Park, England. Manufacturing receptacles. (Reissue.) No. 13,433; June 25; Sp. p. 6456; Gaz. vol. 179; p. 1076.
Comins, Frank B., Sharon, Mass. Humidifier. No. 1,026,946; May 21; Sp. p. 4127; Gaz. vol. 178; p. 703.
Comins, Frank B., Sharon, Mass. Emergency traction device. No. 1,046,272; Dec, 3; Gaz. vol. 185; p. 165.
Commercial Acetylene Company, The. (See Bruckner and McCune, assignors.)
Commercial Electric Motor Mfg. Co. (See Endorf, Charles, Jr., assignor.)
Commercial Research Company, The. (See Bruhn, Bruno, assignor.)
Commercial-Research Company, The. (See Eldred, Byron E., assignor.)
Commercial Savings Bank & Trust Company, The, trustee. (See Stimpson, Walter F., assignor.)
Common Sense Pile Protector Company. (See Reynolds, Alva L., assignor.)
Commonwealth Steel Company. (See Frede and Pflager, assignors.)
Commonwealth Steel Company. (See Howe, Andrew F., assignor.)
Commonwealth Steel Company. (See Schwieder, William, assignor.)
Compagnie d'Entreprises de Lavage de Minerais. (See Dallemagne, Henry, assignor.)
Compagnie des Produits Chimiques d'Alais & de la Camaigue. (See Bunet and Badin, assignors.)
Compagnie Francaise des Applications de la Cellulose. (See Chaumat, Achille, assignor.)
Compagnie Generale de Phonographes Cinematographes et Appareils de Precision. (See Ivatts, Ernest A., assignor.)
Compania Explotadora de los Inventos Julià S. A. (See Fontecha, Juan M. S., assignor.)
Company "Gebr. Koerting Aktiengesellschaft." (See Dietrich and Millies, assignors.)
Company Hugo Schneider Aktiengesellschaft. (See Blankenburg, Carl, assignor.)
Company "Oelwerke Stern-Sonneborn Aktiengesellschaft." (See Wendt, Paul, assignor.)
Company Rudolph Böcking & Cie., Erben Stumm-Halberg und Rud. Böcking G. m. b. H. (See Müller, Johannsen, and Pape, assignors.)
Company "Wulfing, Dahl & Co., Actiengesellschaft." (See Ulrichs, Ernst, assignor.)
Compress Pad & Saddle Company. (See Treece, William F., assignor.)
Comptograph Company. (See Rotter, William A., assignor.)
Compton, Bessie W., Raywood, Tex. Parachute and the like. No. 1,033,155; July 23; Gaz. vol. 180; p. 914.
Compton, Everett, Earlham, Iowa. Draft-equalizer. No. 1,014,121; Jan. 9; Sp. p. 2309; Gaz. vol. 174; p. 385.
Compton, James T. (See Norviel and Compton.)
Compton, Joseph B., Buchanan, assignor of one-half to F. T. D. Wallace, Jr., Louisa, Ky. Cutting-tool. No. 1,034,345; July 30; Gaz. vol. 180; p. 1345.
Compton, Melvin D., New York, N. Y. Electric stock-quotation board. No. 1,017,740; Feb. 20; Sp. p. 3289; Gaz. vol. 175; p. 588.
Compton, William H., Orleans, Ind. Knockdown chicken-coop. No. 1,028,933; June 11; Sp. p. 1886; Gaz. vol. 179; p. 326.
Comrie, Alonzo B., Penn Yan, N. Y. Spreader. No. 1,040,888; Oct. 8; Gaz. vol. 183; p. 442.
Comstock, Asa M. (See Folger and Comstock.)
Comstock, Charles, West Stockbridge, Mass. Rotary engine. No. 1,016,129; Jan. 30; Sp. p. 6661; Gaz. vol. 174; p. 1158.
Comstock, Clark S., Sr., East Orange, N. J. Button-fastener. No. 1,024,118; Apr. 23; Sp. p. 5056; Gaz. vol. 177; p. 891.
Comstock, Elmer E. (See Wintermute, Augustus A., assignor.)
Comstock, John M., Rochester, N. Y. Device for removing dust from ashes. No. 1,017,651; Feb. 20; Sp. p. 3095; Gaz. vol. 175; p. 559.
Comstock, Thomas W., New Haven, Conn. Ash-sifter. No. 1,017,205; Feb. 13; Sp. p. 2179; Gaz. vol. 175; p. 371.
Comtois, Alfred L., Worcester, Mass., assignor to Woods-Sherwood Company. Strainer. No. 1,016,249; Feb. 6; Sp. p. 7; Gaz. vol. 175; p. 4.
Conant, Frank E., Townsend Harbor, Mass. Cow-tail holder. No. 1,030,462; June 25; Sp. p. 5234; Gaz. vol. 179; p. 931.
Conant, William C., Riverside, Ill. Speed-changing mechanism. No. 1,015,477; Jan. 23; Sp. p. 5283; Gaz. vol. 174; p. 905.
Conant, William S. (See Luehrs and Conant.)
Conboy, Henry, Alameda, Cal. Combined back-rest, luggage-carrier, and handle-bar. No. 1,033,156; July 23; Gaz. vol. 180; p. 915.
Concannon, Charles M., Richmond, Cal. Cigar-box. No. 1,040,152; Oct. 1; Gaz. vol. 183; p. 162.
Concealed Door Check Company. (See Nordqvist, Per E., assignor.)
Concealed Door Check Company of Delaware. (See Anderson, John C. A., assignor.)
Concealed Transom Lift Company, The. (See Bell, Ernest E., assignor.)
Concealed Transom Lift Company. (See Hanington, Charles F., assignor.)
Concoff, Isaac. (See Spahn and Concoff.)
Concrete & Clay Products Company. (See Bellamy, Charles H., assignor.)
Conderman, George, Hornell, N. Y. Vehicle-spring. No. 1,017,512; Feb. 13; Sp. p. 2833; Gaz. vol. 175; p. 477.
Condict, George H., New York, N. Y. Regulating dynamo-electric machines. No. 1,029,276; June 11; Sp. p. 2607; Gaz. vol. 179; p. 443.
Condit, Sears B., Jr. (See Badeau, Charles C., assignor.)
Condit, Sears B., Jr. (See Burnham, George A., assignor.)
Condit, Sears B., Jr., Brookline, Mass. Magnetically-controlled switching apparatus. No. 1,014,455; Jan. 9; Sp. p. 3025; Gaz. vol. 174; p. 502.
Condon, Gertrude G. (See Carey and Condon.)
Condon, Henry F., De Kalb, Ill. Mop-holder. No. 1,038,090; Sept. 10; Gaz. vol. 182; p. 339.
Conduit Threading Device Co. (See Crawford, Frank, assignor.)
Cone, Lewis W., Crosland, Ga. Garden implement. No. 1,037,870; Sept. 10; Gaz. vol. 182; p. 265.
Coneby, William H., assignor of one-fourth to J. F. Robb, Washington, D. C. Combined information and advertising device. No. 1,038,298; Sept. 10; Gaz. vol. 182; p. 409.
Confectioners and Bakers Supply Co. (See Dickson, George F., assignor.)
Congdon, Charles H., Marshalls Creek, Pa. Chart-display apparatus. No. 1,014,640; Jan. 16; Sp. p. 3458; Gaz. vol. 174; p. 594.
Congear, Joseph W., Sparks, Ga. Hoe. No. 1,015,478; Jan. 23; Sp. p. 5287; Gaz. vol. 174; p. 905.
Conger, Charles W., Indianapolis, Ind. Pattern-machine. No. 1,013,130; Jan. 2; Sp. p. 81; Gaz. vol. 174; p. 15.
Conger, Herbert A., Seattle, Wash. Gearing. No. 1,045,517; Nov. 26; Gaz. vol. 184; p. 952.
Congil, Francis M., Des Moines, Iowa. Plasterer's corner-strip. No. 1,019,951; Mar. 12; Sp. p. 2021; Gaz. vol. 176; p. 349.
Congreve, John G., New York, N. Y. Incubator. No. 1,035,456; Aug. 20; Gaz. vol. 181; p. 768.
Conkell, Elias W. (See Sanor and Conkell.)
Conkell, Elias W., assignor of one-fourth to J. J. Hein and one-fourth to W. A. Hammerly, Canton, Ohio. Steam-engine. No. 1,015,993; Jan. 30; Sp. p. 6375; Gaz. vol. 174; p. 1110.
Conklin, Charles W., Stony Brook, N. Y. Horse boot or shoe. No. 1,029,594; June 18; Sp. p. 3308; Gaz. vol. 179; p. 588.
Conklin, George E. (See Symons and Conklin.)
Conklin, John F., South Bethlehem, Pa. Removable saw-tooth for metal-cutting saws. No. 1,046,737; Dec. 10; Gaz. vol. 185; p. 367.
Conklin, Samuel H. (See Albrecht and Conklin.)
Conklin, Vernon A., Bayonne, N. J. Railway-tie and lock. No. 1,021,661; Mar. 26; Sp. p. 5624; Gaz. vol. 176; p. 1012.
Conkling, Charles E., Peosta, Iowa. Mail-bag holder. No. 1,044,499; Nov. 19; Gaz. vol. 184; p. 566.
Conkling, Samuel G., *et al.* (See Schaffert, Louis, assignor.)

Alphabetical list of patentees—Continued.

Conlan, David, Jr. (See Jensen, Conlan, and Dyer.)
Conlan, Elizabeth. (See Jensen, Conlan, and Dyer, assignors.)
Conley, Charles M., Parkers Landing, Pa. Puzzle postal card. No. 1,018,879; Feb. 27; Sp. p. 5871; Gaz. vol. 175; p. 1013.
Conley Foil Company. (See Conley, John, assignor.)
Conley, John, assignor to Conley Foil Company, New York, N. Y. Closure for vessels. No. 1,029,424; June 11; Sp. p. 2958; Gaz. vol. 179; p. 495.
Conley, Michael R., assignor to J. E. Florence, trustee, New York, N. Y. Electric furnace. No. 1,023,996; Apr. 23; Sp. p. 4775; Gaz. vol. 177; p. 847.
Conley, Patrick J. (See Stobbe and Conley.)
Conley, Roy H., Los Angeles, Cal. Automatic railway-switch. No. 1,022,303; Apr. 2; Sp. p. 1148; Gaz. vol. 177; p. 184.
Conlon, Bartholomew J., Lawrence, Mass., assignor, by mesne assignments, to United Shoe Machinery Company, Paterson, N. J. Protector-setting machine. No. 1,015,543; Jan. 23; Sp. p. 5406; Gaz. vol. 174; p. 926.
Conn, Joseph C., Boonton, N. J., assignor to J. B. Stone Co., Grand Rapids, Mich. Belt-fastener. No. 1,015,783; Jan. 30; Sp. p. 5929; Gaz. vol. 174; p. 1038.
Connable, Frank L. (See Williams, David T., assignor.)
Connable, Frank L., Wilmington, Del. Apparatus for practising golf. No. 1,023,125; Apr. 16; Sp. p. 2944; Gaz. vol. 177; p. 533.
Conneaut Company, The. (See Lumley, Wilfrid, assignor.)
Connecticut Metal Boiler Cleaner Company, The. (See Ives, Friend A., assignor.)
Connecticut Shock Absorber Company, The. (See Lawton, Burton L., assignor.)
Connecticut Telephone & Electric Company, The. (See Bright, Evan D., assignor.)
Connecticut Telephone & Electric Company, The. (See Cuno, Charles, assignor.)
Connecticut Telephone and Electric Company, The. (See Wilcox, Ernest C., assignor.)
Connecticut Telephone and Electric Company, The. (See Wilcox and Lawton, assignors.)
Connell, Edward A. (See Hillyer, George H., assignor.)
Connell, Howard R., Brackenridge, Pa., assignor to General Electric Company. Making meter-jewels. No. 1,023,299; Apr. 16; Sp. p. 3320; Gaz. vol. 177; p. 594.
Connell, James. (See Marlatt, Robert, assignor.)
Connell, John J. (See Niebling, George W., assignor.)
Connell, Joseph W., Nashville, Ga. Seed-planter. No. 1,049,053; Dec. 31; Gaz. vol. 185; p. 1263.
Connell, William J., and A. F. Dickey, Huntington, W. Va. Concrete-structure stiffener. No. 1,024,312; Apr. 23; Sp. p. 5463; Gaz. vol. 177; p. 957.
Connell, William S., New York, N. Y., assignor to Keystone Fireproofing Company. Plaster-board partition-stud. No. 1,033,545; July 23; Gaz. vol. 180; p. 1044.
Conner, George F., assignor to Handy Jack Manufacturing Company, Port Huron, Mich. Lifting-jack. No. 1,043,070; Nov. 5; Gaz. vol. 184; p. 7.
Conner, Herschel M., Chicago, Ill., assignor, by mesne assignments, to Standard Light Company, Wilmington, Del. Vapor-burner. No. 1,030,162; June 18; Sp. p. 4540; Gaz. vol. 179; p. 784.
Conner, Herschel M., Chicago, Ill., assignor to Standard Light Company, Savannah, Ga. Hydrocarbon-vaporizer. No. 1,046,557; Dec. 10; Gaz. vol. 185; p. 304.
Conner, John F., Oxford, Miss. Car-door. No. 1,030,719; June 25; Sp. p. 6001; Gaz. vol. 179; p. 1023.
Conner, Rees P. (See McIntyre and Conner.)
Connery, John, St. Louis, Mo. Medicated air compound. No. 1,035,536; Aug. 13; Gaz. vol. 181; p. 415.
Conniff, Philip, Washington, D. C. Metallic packing. No. 1,035,859; Aug. 20; Gaz. vol. 181; p. 560.
Conniff, Philip, Washington, D. C., assignor to The Collins Metallic Packing Company, Philadelphia, Pa. Wheel-flange lubricator. No. 1,039,650; Sept. 24; Gaz. vol. 182; p. 928.
Connolly, Joseph A., Everett, Mass., assignor to The Hinde & Dauch Paper Company, Sandusky, Ohio. Shipping-case. No. 1,034,878; Aug. 6; Gaz. vol. 181; p. 161.
Connolly, Martin P., Wayne, assignor, by mesne assignments, to J. Clark, Ypsilanti, Mich. Folding packing-case. No. 1,033,876; July 30; Gaz. vol. 180; p. 1181.
Connolly, Thomas W., Los Angeles, Cal. Well-drilling rig. No. 1,033,990; July 30; Gaz. vol. 180; p. 1222.
Connor, George W., Bearwallow, N. C. Washing apparatus. No. 1,034,206; July 30; Gaz. vol. 180; p. 1206.
Connor, James, Cleveland, Okla. Boot and shoe cleaner. No. 1,045,518; Nov. 26; Gaz. vol. 184; p. 952.
Connor, James H., Nashville, Tenn. Manufacturing available phosphoric acid. No. 1,042,400; Oct. 29; Gaz. vol. 183; p. 1048.
Connor, James H., Nashville, Tenn. Manufacturing available phosphoric acid. No. 1,042,401; Oct. 29; Gaz. vol. 183; p. 1048.
Connor, James H., Nashville, Tenn. Manufacturing available phosphoric acid. No. 1,042,402; Oct. 29; Gaz. vol. 183; p. 1048.
Connor, William M., Baltimore, Md. Detinning-machine. No. 1,021,302; Mar. 26; Sp. p. 4874; Gaz. vol. 176; p. 890.
Connors, Eugene F., and T. N. Barnsdall, 2d, Bradford, Pa. Roll-holder for labels and the like. No. 1,029,490; June 11; Sp. p. 3082; Gaz. vol. 179; p. 517.
Connors, John W., Dedham, assignor to The Reece Button Hole Machine Company, Boston, Mass. Buttonhole-sewing machine. No. 1,030,570; June 25; Sp. p. 5554; Gaz. vol. 179; p. 969.
Connstein, Wilhelm, assignor to Vereinigte Chemische Werke Actiengesellschaft, Charlottenburg, Germany. Manufacture of the fatty acids from their esters. No. 1,015,994; Jan. 30; Sp. p. 6379; Gaz. vol. 174; p. 1110.
Conover, Edwin K., assignor to Conover Motor Car Company, Paterson, N. J. Signal and exhaust control. No. 1,046,413; Dec. 3; Gaz. vol. 185; p. 215.
Conover, Henry S. (See Rothchild and Conover.)
Conover Motor Car Company. (See Conover, Edwin K., assignor.)
Conrad, Anna, *et al.* (See Conrad, Mark, assignor.)
Conrad, Annette C., *et al.* (See Shepard, Elisha H., assignor.)
Conrad, Edwin S. (See Shepherd and Conrad.)
Conrad, Elise, Milwaukee, Wis. Antislipping attachment for crutches. No. 1,031,247; July 2; Gaz. vol. 180; p. 141.
Conrad, Frank, Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Prepayment-meter. No. 1,017,082; Feb. 13; Sp. p. 1916; Gaz. vol. 175; p. 329.
Conrad, Frank, Swissvale, Pa., asignor to Westinghouse Electric and Manufacturing Company. System of electric-motor control. No. 1,024,557; Apr. 30; Sp. p. 6073; Gaz. vol. 177; p. 1075.
Conrad, Frank, Swissvale, and W. M. Bradshaw, Wilkinsburg, Pa., assignors to Westinghouse Electric & Manufacturing Company. Metering system. No. 1,029,743; June 18; Sp. p. 3642; Gaz. vol. 179; p. 642.
Conrad, Frank, Swissvale, and P. MacGahan, Wilkinsburg, Pa., assignors to Westinghouse Electric & Manufacturing Company. Recording measuring instrument. No. 1,031,041; July 2; Gaz. vol. 180; p. 67.
Conrad, Frank, Swissvale, and P. MacGahan, Wilkinsburg, Pa., assignors to Westinghouse Electric & Manufacturing Company. Recording measuring instrument. No. 1,031,042; July 2; Gaz. vol. 180; p. 68.
Conrad, George W., *et al.* (See Conrad, Mark, assignor.)
Conrad, George W. and H. E., Nanty Glo, Pa. Converter. No. 1,048,500; Dec. 31; Gaz. vol. 185; p. 1070.
Conrad, Harry E. (See Conrad, George W. and H. E.)
Conrad, Hugh V., Pittsburgh, Pa. Eyeglass-case. No. 1,025,372; May 7; Sp. p. 594; Gaz. vol. 178; p. 92.
Conrad, Isaac N., *et al.* (See Shepard, Elisha H., assignor.)
Conrad, John, New York, N. Y. Manifolding writing-tablet. No. 1,046,978; Dec. 10; Gaz. vol. 185; p. 448.
Conrad, Joseph A., Freeport, Ill. Sheet-metal folding shipping-crate. No. 1,046,979; Dec. 10; Gaz. vol. 185; p. 448.
Conrad, Joshua C., Cement, Okla. Cotton-machine. No. 1,046,441; Dec. 10; Gaz. vol. 185; p. 261.
Conrad, Mark, assignor of one-fourth to G. W. Conrad, one-fourth to A. Conrad, Adrian, Mich., and one-half to W. G. Kelly, Winslow, Ariz. Block-signaling system and safety apparatus. No. 1,031,529; July 2; Gaz. vol. 180; p. 236.
Conrad, Mark, Adrian, Mich., and W. G. Kelly, Winslow, Ariz. Train-stopping mechanism for block-signaling systems. No. 1,031,672; July 2; Gaz. vol. 180; p. 286.
Conrad, Nicholas J., and E. O. Schweitzer, Chicago, Ill. High-voltage protective device. No. 1,033,384; July 23; Gaz. vol. 180; p. 993.
Conrad, William B. (See Boast and Conrad.)
Conrad, William H., Williamstown, Ky. Hasp-lock. No. 1,040,889; Oct. 8; Gaz. vol. 183; p. 443.
Conrader, Rudolph, Erie, Pa. Pump. No. 1,031,248; July 2; Gaz. vol. 180; p. 142.
Conrader, Rudolph, Erie, Pa. Pump. No. 1,041,596; Oct. 15; Gaz. vol. 183; p. 712.
Conradson, Conrad M., assignor to Madison Machine Company, Madison, Wis. Speed-variator. No. 1,035,860; Aug. 20; Gaz. vol. 181; p. 561.
Consolidated Car Heating Company. (See McElroy, James F., assignor.)
Consolidated Car Heating Company. (See Nuckols and Bruyn, assignors.)
Consolidated Grocery Co., The. (See Ivey, Romulus L., assignor.)
Consolidated Manufacturing Company, The. (See Chubbuck, Samuel J., assignor.)
Consolidated Railway Electric Lighting and Equipment Company. (See Kennedy, Patrick, assignor.)
Consolidated Rubber Tire Company. (See Miller, Stephen S., assignor.)
Consolidated Window Glass Company. (See Healy, Mack J., assignor.)
Consolidated Wrapping Machine Company. (See Berger, Richard A., assignor.)
Constantinescu, Gogu, Bloomsbury, London, England. Carbureter for internal-combustion engines. No. 1,021,039; Mar. 26; Sp. p. 4320; Gaz. vol. 176; p. 802.
Constantinescu, Gogu, London, England. Vapor-generator. No. 1,032,532; July 16; Gaz. vol. 180; p. 664.

Alphabetical list of patentees—Continued.

Constantinescu, Vasile, Nelson, British Columbia, Canada. Drafting device for shading circles. No. 1,027,102; May 21; Sp. p. 4495; Gaz. vol. 178; p. 757.
Constantinescu, Vasile, Nelson, British Columbia, Canada. Combined calipers and protractor. No. 1,039,901; Oct. 1; Gaz. vol. 183; p. 78.
Contaxes, Frank, *et al.* (See Clifford, Robert, assignor.)
Conterio, James A., Santa Barbara, Cal. Airship. No. 1,036,964; Aug. 27; Gaz. vol. 181; p. 970.
Conti, Anthony S., Chicago, Ill. Pneumatic track-sander. No. 1,041,744; Oct. 22; Gaz. vol. 183; p. 799.
Conti, Gerolamo, assignor to Società Anonima Italiana per la Combustione Degli Idrocarburi, Genoa, Italy. Liquid-fuel furnace. No. 1,031,249; July 2; Gaz. vol. 180; p. 142.
Conti, James T. F. (See Dusseris and Conti.)
Continental Can Company. (See Loweree, Edgar R., assignor.)
Continental Can Company. (See Norton and Larkin, assignors.)
Continental Gin Company. (See Ligon, Harry W., assignor.)
Continental Gin Company. (See Wilson, Ralph E., assignor.)
Continental Manufacturing Company, The. (See Koons, Virgil C., assignor.)
Continental Paper Bag Company. (See King and Irving, assignors.)
Continental Paper Bag Company. (See Pippert, Willis, assignor.)
Continental Water Purifying Corporation. (See Hagg, Virgil B., assignor.)
Continuous Rail Company. (See Noll, John, assignor.)
Continuous Rail Company. (See Noll, John, assignor.) (Reissue.)
Continuous Rail Company. (See Rhodes, Edgar, assignor.)
Contos, John, Grand Island, Nebr. Track-adjuster. No. 1,013,987; Jan. 9; Sp. p. 2008; Gaz. vol. 174; p. 340.
Contri, Lodovico. (See Capra and Contri.)
Convers, Albert E., Cleveland, Ohio. Header for nail-machines. No. 1,033,231; July 23; Gaz. vol. 180; p. 941.
Converse, Atherton D., Winchendon, Mass. Collapsible shoo-fly rocker. No. 1,039,698; Oct. 1; Gaz. vol. 183; p. 8.
Converse, Atherton D., Winchendon, Mass. Rocking-horse. No. 1,039,699; Oct. 1; Gaz. vol. 183; p. 9.
Converse, Newton B., Fresno, Cal., assignor to himself, J. E. Dickinson, F. M. Wright, B. W. Norton, L. Z. Ickes, and K. Araklian, trustees. Rapid-weighing scale. No. 1,029,170; June 11; Sp. p. 2387; Gaz. vol. 179; p. 407.
Converse, Newton B., Fresno, Cal., assignor to N. B. Converse, J. E. Dickinson, F. M. Wright, B. W. Newton, L. Z. Ickes, and K. Arakelian, trustees. Filling, weighing, and packing apparatus. No. 1,029,669; June 18; Sp. p. 3461; Gaz. vol. 179; p. 615.
Converse, Newton B., Fresno, Cal., assignor to himself, J. E. Dickinson, F. M. Wright, B. W. Norton, L. Z. Ickes, and K. Arakelian, trustees. Machine for filling and closing cartons. No. 1,044,500; Nov. 19; Gaz. vol. 184; p. 566.
Conway, Alfred T., *et al.* (See Luster, Eugene A., assignor.)
Conway, David B., Fort Dodge, Iowa. Egg-tester. No. 1,040,626; Oct. 8; Gaz. vol. 183; p. 355.
Conway, George M., Milwaukee, Wis. Utilizing spent bark or analogous material as a fuel. No. 1,013,988; Jan. 9; Sp. p. 2010; Gaz. vol. 174; p. 340.
Conway, James M., Bessemer, Ala. Railway-tie plate. No. 1,023,551; Apr. 16; Sp. p. 3815; Gaz. vol. 177; p. 673.
Conway, James W. (See Lofton, Herbert M., assignor.)
Conway, Thomas, *et al.* (See Roper, William, assignor.)
Conway, Thomas E., Galena, Kans. Coating compound. No. 1,020,801; Mar. 19; Sp. p. 3821; Gaz. vol. 176; p. 669.
Conway, William T., St. Louis county, Mo. Device for stamping or marking meats. No. 1,021,715; Mar. 26; Sp. p. 5729; Gaz. vol. 176; p. 1029.
Conwell, Samuel H., Tarentum, Pa., assignor to W. P. Murphy, Chicago, Ill. Bracket for release-rigging. No. 1,037,442; Sept. 3; Gaz. vol. 182; p. 90.
Conzelman, John E., St. Louis, Mo., assignor to Unit Construction Company, Wilmington, Del. Concrete construction. No. 1,031,043; July 2; Gaz. vol. 180; p. 68.
Conzelman, John E., assignor to Unit Construction Company, St. Louis, Mo. Concrete construction. No. 1,031,044; July 2; Gaz. vol. 180; p. 69.
Conzelman, John E., assignor to Unit Construction Company, St. Louis, Mo. System of reinforcement for concrete slabs. No. 1,031,045; July 2; Gaz. vol. 180; p. 69.
Conzelman, John E., assignor to Unit Construction Company, St. Louis, Mo. Concrete construction. No. 1,031,046; July 2; Gaz. vol. 180; p. 70.
Conzelman, John E., assignor to Unit Construction Company, St. Louis, Mo. Concrete construction. No. 1,031,047; July 2; Gaz. vol. 180; p. 70.
Conzelman, John E., assignor to Unit Construction Company, St. Louis, Mo. Concrete construction. No. 1,031,048; July 2; Gaz. vol. 180; p. 71.
Conzelman, John E., assignor to Unit Construction Company, St. Louis, Mo. Column-setting device. No. 1,031,049; July 2; Gaz. vol. 180; p. 71.
Conzelman, John E., assignor to Unit Construction Company, St. Louis, Mo. Concrete reservoir. No. 1,031,050; July 2; Gaz. vol. 180; p. 72.
Conzelman, John E., assignor to Unit Construction Company, St. Louis, Mo. Fence and wall construction. No. 1,045,519; Nov. 26; Gaz. vol. 184; p. 953.
Conzelman, John E., assignor to Unit Construction Company, St. Louis, Mo. Concrete construction. No. 1,045,520; Nov. 26; Gaz. vol. 184; p. 953.
Conzelman, John E., assignor to Unit Construction Company, St. Louis, Mo. Wall construction. No. 1,045,521; Nov. 26; Gaz. vol. 184; p. 953.
Conzelman, John E., assignor to Unit Construction Company, St. Louis, Mo. Elevator and tank construction. No. 1,045,522; Nov. 26; Gaz. vol. 184; p. 954.
Conzelman, John E., assignor to Unit Construction Company, St. Louis, Mo. Concrete construction. No. 1,045,774; Nov. 26; Gaz. vol. 184; p. 1042.
Coo, Thomas J., Toronto, Ontario, Canada, assignor to The Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 1,016,250; Feb. 6; Sp. p. 8; Gaz. vol. 175; p. 4.
Cook, Albert, Jersey City, N. J. Tension-controlling apparatus. No. 1,033,546; July 23; Gaz. vol. 180; p. 1044.
Cook, Albert E., Odebolt, Iowa. Motor-plow. No. 1,040,890; Oct. 8; Gaz. vol. 183; p. 443.
Cook, Albert M. (See Ham and Cook.)
Cook, Arthur L., North Heath, Mass. Cross-line buckle. No. 1,024,830; Apr. 30; Sp. p. 6656; Gaz. vol. 177; p. 1171.
Cook, August D. (See Batchlor, Landon, assignor.)
Cook, Charles L., Louisville, Ky. Internal-combustion engine. No. 1,030,806; June 25; Sp. p. 6247; Gaz. vol. 179; p. 1055.
Cook, Darwin H., and E. J. Wilson, Lansford, N. D. Blower-fan. No. 1,039,099; Sept. 24; Gaz. vol. 182; p. 734.
Cook, Earl G., Pincher Station, Alberta, Canada. Hay-press. No. 1,044,142; Nov. 12; Gaz. vol. 184; p. 414.
Cook, Edgar P., Granville, Ohio. High-power air-rifle. No. 1,045,373; Nov. 26; Gaz. vol. 184; p. 900.
Cook, Edward E., Springfield, N. J. Horseshoe. No. 1,035,537; Aug. 13; Gaz. vol. 181; p. 415.
Cook, Elbridge C., assignor of one-half to J. W. Stokes, Indianapolis, Ind. Cotton-picker. No. 1,032,115; July 9; Gaz. vol. 180; p. 478.
Cook, Eugene, Kalamazoo, Mich. Gearing. No. 1,039,258; Sept. 24; Gaz. vol. 182; p. 792.
Cook, Everett J., Detroit, Mich. Pump. No. 1,046,558; Dec. 10; Gaz. vol. 185; p. 304.
Cook, Frank B., *et al.* (See Nolen, James G., assignor.)
Cook, Frank B. (See Rolfe, Charles A., assignor.)
Cook, George W. (See Fortmann, Gustave, assignor.)
Cook, George W. (See Sohacki and Cook.)
Cook, George W., Jr. (See Elliott and Cook.)
Cook, Giles H., Des Moines, Iowa. Acetylene-gas generator. No. 1,015,378; Jan. 23; Sp. p. 5056; Gaz. vol. 174; p. 872.
Cook, Gustave, Gillett, Wis. Safe-door. No. 1,032,992; July 16; Gaz. vol. 180; p. 820.
Cook, Herbert C., Springfield, Mass. Combination darning-ball and handy implement. No. 1,048,296; Dec. 24; Gaz. vol. 185; p. 961.
Cook, Howard T., Crafton, Pa. Mail-bag and bag-support. No. 1,027,524; May 28; Sp. p. 5346; Gaz. vol. 178; p. 936.
Cook, Hugh B., Brunswick, Ga. Name-holder. No. 1,039,902; Oct. 1; Gaz. vol. 183; p. 78.
Cook, Irving A., Lancaster, Ohio. Shoe-last. No. 1,019,602; Mar. 5; Sp. p. 1329; Gaz. vol. 176; p. 200.
Cook, James H., Connellsville, Pa. Lathe-chuck. No. 1,048,944; Dec. 31; Gaz. vol. 185; p. 1224.
Cook, John A., Marinette, Wis. Holder for box-partitions. No. 1,037,594; Sept. 3; Gaz. vol. 182; p. 140.
Cook, John A., assignor to Marinette & Menominee Box Company, Marinette, Wis. Box-fastener. No. 1,046,442; Dec. 10; Gaz. vol. 185; p. 262.
Cook, John G., Brooklyn, N. Y. Electric igniter. No. 1,034,691; Aug. 6; Gaz. vol. 181; p. 96.
Cook, Kenzie E., Wickham, W. Va. Detachable pick-point. No. 1,035,160; Aug. 13; Gaz. vol. 181; p. 284.
Cook, Miles P., Flint, Mich. Journal-box cooler. No. 1,020,188; Mar. 12; Sp. p. 2524; Gaz. vol. 176; p. 428.
Cook, Miller, Whitman, assignor to W. H. McElwain Company, Boston, Mass. Holddown for lasting-machines. No. 1,047,387; Dec. 17; Gaz. vol. 185; p. 622.
Cook Motor Company, The. (See Stedman, Charles C., assignor.)
Cook Railway Signal Company, The. (See Cook, William J., assignor.)
Cook, Roswell F., New York, N. Y. Latch. No. 1,023,624; Apr. 16; Sp. p. 3978; Gaz. vol. 177; p. 699.
Cook, Stanley S. (See Ridsdale and Cook.)
Cook, Stetson S., Falls City, Oreg. Set-screw guard. No. 1,028,546; June 4; Sp. p. 1048; Gaz. vol. 179; p. 160.
Cook, Walter A., administrator. (See Minnich, David A.)

Alphabetical list of patentees—Continued.

Cook, Walter K., assignor to The American Bank Protection Company, Minneapolis, Minn. Electrical burglar-alarm. No. 1,016,936; Feb. 13; Sp. p. 1562; Gaz. vol. 175; p. 277.
Cook, William, assignor to G. S. Terry, New York, N. Y. Apparatus for building walls. No. 1,033,385; July 23; Gaz. vol. 180; p. 993.
Cook, William A., South Bend, Ind. Split-ring clutch. No. 1,014,865; Jan. 16; Sp. p. 3970; Gaz. vol. 174; p. 672.
Cook, William E., St. George, and D. H. Haywood, deceased, New York, N. Y.; F. G. Haywood, executrix. Invertible scow. No. 1,015,755; Jan. 23; Sp. p. 5867; Gaz. vol. 174; p. 1000.
Cook, William J., assignor to The Cook Railway Signal Company, Denver, Colo. Railway signaling apparatus. No. 1,014,208; Jan. 9; Sp. p. 2468; Gaz. vol. 174; p. 415.
Cook, William J., assignor to The Cook Railway Signal Company, Denver, Colo. Railway signaling mechanism. No. 1,037,871; Sept. 10; Gaz. vol. 182; p. 265.
Cook, William J., assignor to The Cook Railway Signal Company, Denver, Colo. Circuit-make-and-break device for railway signaling systems. No. 1,041,966; Oct. 22; Gaz. vol. 183; p. 877.
Cook, William R., Streator, Ill. Land-marker for corn-planters. No. 1,046,559; Dec. 10; Gaz. vol. 185; p. 305.
Cooke, Charles J., Hongkong, China. Advertising-display apparatus. No. 1,020,538; Mar. 19; Sp. p. 3247; Gaz. vol. 176; p. 581.
Cooke, Dwight I. (See Schenck and Cooke.)
Cooke, Dwight I., assignor to Vacuum Car Ventilating Company, Chicago, Ill. Car-ventilating system. No. 1,024,438; Apr. 23; Sp. p. 5725; Gaz. vol. 177; p. 997.
Cooke, Dwight I., assignor to Vacuum Car Ventilating Co., Chicago, Ill. Car-ventilating system for sleeping-cars. No. 1,024,439; Apr. 23; Sp. p. 5727; Gaz. vol. 177; p. 997.
Cooke, Ernest W., New York, N. Y., assignor, by mesne assignments, to The Cokel Company. Dehydrated potatoes and preparing the same. No. 1,025,373; May 7; Sp. p. 595; Gaz. vol. 178; p. 92.
Cooke, Ernest W., New York, N. Y., assignor, by mesne assignments, to The Cokel Company. Dehydrating animal and vegetable substances. No. 1,025,374; May 7; Sp. p. 597; Gaz. vol. 178; p. 93.
Cooke, Eugene B. (See Richardson and Cooke.)
Cooke, George G., Newark, N. J. Drinking-fountain. No. 1,032,589; July 16; Gaz. vol. 180; p. 684.
Cooke, Joseph B., *et al.* (See Lake, Franklin W., assignor.)
Cooke, Richard T., Indianapolis, Ind. Can-spout. No. 1,018,552; Feb. 27; Sp. p. 5201; Gaz. vol. 175; p. 904.
Cooke, Thomas G., Chicago, Ill. Valve for water distribution. No. 1,021,303; Mar. 26; Sp. p. 4876; Gaz. vol. 176; p. 890.
Cooke, Warner B., Jenkintown, assignor to William Wharton, Jr., & Company, Incorporated, Philadelphia, Pa. Foot-guard for track structures. No. 1,046,980; Dec. 10; Gaz. vol. 185; p. 448.
Cooke, William E., Harvey, N. D. Rotary plow. No. 1,013,587; Jan. 2; Sp. p. 1066; Gaz. vol. 174; p. 172.
Cookerley, Josiah, South Milford, Ind. Nut-locking washer. No. 1,038,528; Sept. 17; Gaz. vol. 182; p. 523.
Cookingham, De Witt C., and J. H. Hertner, assignors to The Rauch and Lang Carriage Company, Cleveland, Ohio. Differential gearing. No. 1,029,793; June 18; Sp. p. 3744; Gaz. vol. 179; p. 659.
Cookingham, Herman V., Rensselaer, and G. O. Price, Albany, N. Y. Sliding-door lock. No. 1,042,326; Oct. 22; Gaz. vol. 183; p. 995.
Cookson, Clarence F. (See Merhige and Cookson.)
Cookson, Clarence F., Brooklyn, N. Y. Electric switch. No. 1,031,324; July 2; Gaz. vol. 180; p. 167.
Coolbaugh, Frank W., Philadelphia, Pa. Sill-step. No. 1,046,981; Dec. 10; Gaz. vol. 185; p. 449.
Cooley, Fred W., Minneapolis, Minn. Suspender-fastener. No. 1,041,434; Oct. 15; Gaz. vol. 183; p. 660.
Cooley, Henry B., New Britain, Conn., assignor to The American Paper Goods Company, Montclair, N. J. Tubing-machine. No. 1,034,879; Aug. 6; Gaz. vol. 181; p. 161.
Cooley, Henry B., New Britain, assignor to The American Paper Goods Company, Kensington, Conn. Vending apparatus. No. 1,047,388; Dec. 17; Gaz. vol. 185; p. 623.
Cooley, John F. (See Ball, Walter, assignor.)
Cooley, Oren, Toronto, Ontario, Canada, assignor to S. F. Bowser & Company, Incorporated, Fort Wayne, Ind. Bottle-filling machine. No. 1,015,995; Jan. 30; Sp. p. 6380; Gaz. vol. 174; p. 1110.
Cooley, William H., Brockport, N. Y. Loose-leaf binder and leaf therefor. No. 1,013,746; Jan. 2; Sp. p. 1451; Gaz. vol. 174; p. 228.
Cooley, William H., Brockport, N. Y. Loose-leaf binder and leaf therefor. No. 1,040,514; Oct. 8; Gaz. vol. 183; p. 314.
Cooley, William H., Brockport, N. Y. Loose-leaf binder and leaf therefor. No. 1,044,752; Nov. 19; Gaz. vol. 184; p. 657.
Cooley, William H., Brockport, N. Y. Loose-leaf binder and leaf therefor. No. 1,044,753; Nov. 19; Gaz. vol. 184; p. 657.
Coolidge, William D., Schenectady, N. Y., assignor to General Electric Company. Manufacture of refractory conductors. No. 1,026,343; May 14; Sp. p. 2768; Gaz. vol. 178; p. 462.
Coolidge, William D., Schenectady, N. Y., assignor to General Electric Company. Binder for the manufacture of refractory conductors. No. 1,026,344; May 14; Sp. p. 2771; Gaz. vol. 178; p. 462.
Coolidge, William D., Schenectady, N. Y., assignor to General Electric Company. Apparatus for treating filaments. No. 1,026,345; May 14; Sp. p. 2772; Gaz. vol. 178; p. 462.
Coolidge, William D., Schenectady, N. Y., assignor to General Electric Company. Metal filament. No. 1,026,382; May 14; Sp. p. 2861; Gaz. vol. 178; p. 474.
Coolidge, William D., Schenectady, N. Y., assignor to General Electric Company. Metal filament. No. 1,026,383; May 14; Sp. p. 2862; Gaz. vol. 178; p. 474.
Coolidge, William D., Schenectady, N. Y., assignor to General Electric Company. Metal filament. No. 1,026,384; May 14; Sp. p. 2863; Gaz. vol. 178; p. 474.
Coolidge, William D., Schenectady, N. Y., assignor to General Electric Company. Tungsten purification. No. 1,026,428; May 14; Sp. p. 2953; Gaz. vol. 178; p. 489.
Coolidge, William D., Schenectady, N. Y., assignor to General Electric Company. Refractory conductor. No. 1,026,429; May 14; Sp. p. 2954; Gaz. vol. 178; p. 489.
Coolidge, William D., Schenectady, N. Y., assignor to General Electric Company. Manufacturing lamp-filaments. No. 1,047,502; Dec. 17; Gaz. vol. 185; p. 663.
Cooling, Arthur B., Sterling, Ill. Gearing for washing-machines. No. 1,040,627; Oct. 8; Gaz. vol. 183; p. 355.
Coombs, Charles B., Nashua, Fla. Match-box. No. 1,039,259; Sept. 24; Gaz. vol. 182; p. 792.
Coombs, Frank E., Natick, Mass. Straining device. No. 1,018,166; Feb. 20; Sp. p. 4306; Gaz. vol. 175; p. 739.
Coombs, Frank E., Brookfield, Vt. Centrifugal machine. No. 1,026,075; May 14; Sp. p. 2181; Gaz. vol. 178; p. 368.
Coombs, Frank E., Au Sable Forks, N. Y. Removing scale. No. 1,049,054; Dec. 31; Gaz. vol. 185; p. 1263.
Coon, Calvin P., Bruce, Wis. Grain-door. No. 1,019,025; Mar. 5; Sp. p. 21; Gaz. vol. 176; p. 7.
Coon, Eugene C. and T. R., Portland, Oreg. Tree-support. No. 1,040,891; Oct. 8; Gaz. vol. 183; p. 443.
Coon, Lyman A. (See Babcock, Irwin H., assignor.)
Coon, Nelson B., North Braddock, Pa. Trolley. No. 1,036,457; Aug. 20; Gaz. vol. 181; p. 769.
Coon, Thomas R. (See Coon, Eugene C. and T. R.)
Coonrod, Jeremy B., Rock Rapids, Iowa. Armor for vehicle-tires. No. 1,023,414; Apr. 16; Sp. p. 3547; Gaz. vol. 177; p. 631.
Cooper, Alexander J., *et al.*, executors. (See Barratt, William T., assignor.)
Cooper, Alfred J., Duryea, Pa. Pipe-wrench. No. 1,037,872; Sept. 10; Gaz. vol. 182; p. 265.
Cooper, Annie, *et al.*, executors. (See Barratt, William T., assignor.)
Cooper, Ashley R., Mooresville, Ind. Threshing-machine. No. 1,021,917; Apr. 2; Sp. p. 347; Gaz. vol. 177; p. 57.
Cooper, Edwin, East Hartford, and C. E. Clark, Hartford, Conn. Sectional brace. No. 1,026,659; May 21; Sp. p. 3456; Gaz. vol. 178; p. 603.
Cooper, Edwin H., Los Angeles, Cal. Spring-clip. No. 1,017,249; Feb. 13; Sp. p. 2273; Gaz. vol. 175; p. 386.
Cooper, Ellis W., assignor to R. Hoe and Co., New York, N. Y. Gripper mechanism for printing-machines. No. 1,015,873; Jan. 30; Sp. p. 6118; Gaz. vol. 174; p. 1067.
Cooper, Ellis W., Bloomfield, N. J., assignor to R. Hoe and Co., New York, N. Y. Method of and apparatus for casting curved printing-plates and the like. No. 1,028,330; June 4; Sp. p. 576; Gaz. vol. 179; p. 86.
Cooper, Fred E., H. W. Taneyhill, and G. K. Page, Peoria, Ill. Billiard-cue. No. 1,018,032; Feb. 20; Sp. p. 3998; Gaz. vol. 175; p. 692.
Cooper, Frederick A., Leicester, England, assignor to United Shoe Machinery Company, Paterson, N. J. Compressing-machine. No. 1,015,784; Jan. 30; Sp. p. 5931; Gaz. vol. 174; p. 1038.
Cooper, George A., Oak Park, Ill. Duplex fountain-pen. No. 1,035,538; Aug. 13; Gaz. vol. 181; p. 416.
Cooper, George W., Patten, Me. Attachment for elevated potato-diggers. No. 1,015,299; Jan. 23; Sp. p. 4874; Gaz. vol. 174; p. 844.
Cooper Heater Company, The. (See Blackwell and De Ville, assignors.)
Cooper, Henry C. H., Jamestown, assignor, by mesne assignments, to Empire Voting Machine Company, Rochester, N. Y. Voting-machine. No. 1,031,170; July 2; Gaz. vol. 180; p. 114.
Cooper, Herbert, Brooklyn, N. Y. Gas-engine. No. 1,018,481; Feb. 27; Sp. p. 4981; Gaz. vol. 175; p. 877.
Cooper, Herbert, Brooklyn, N. Y. Vehicle-frame. No. 1,018,482; Feb. 27; Sp. p. 4987; Gaz. vol. 175; p. 877.
Cooper, Herbert, Brooklyn, N. Y. Universal joint. No. 1,033,784; July 30; Gaz. vol. 180; p. 1147.
Cooper Hewitt Electric Company. (See Hewitt, Peter C assignor.)

Alphabetical list of patentees—Continued.

Cooper Hewitt Electric Company. (See Hewitt and Rogers, assignors.)
Cooper Hewitt Electric Company. (See Thomas, Percy H., assignor.)
Cooper, James E., Perry, assignor to Robeson Cutlery Company, Rochester, N. Y. Combination pocket implement. No. 1,039,260; Sept. 24; Gaz. vol. 182; p. 793.
Cooper, John H., Salt Lake City, Utah. Propelling boats. No. 1,046,376; Dec. 3; Gaz. vol. 185; p. 201.
Cooper, John J., Providence, R. I. Implement for automobile-engines. No. 1,018,236; Feb. 20; Sp. p. 4444; Gaz. vol. 175; p. 763.
Cooper, John M., Lewiston, W. Va. Rail-joint. No. 1,037,595; Sept. 3; Gaz. vol. 182; p. 140.
Cooper, John W., Brinkley, Ark. Cattle-guard. No. 1,029,854; June 18; Sp. p. 3908; Gaz. vol. 179; p. 680.
Cooper, Joseph K. (See Gentle and Cooper.)
Cooper, Leon L., Santa Rita, Cal. Tobacco-cutter. No. 1,047,175; Dec. 17; Gaz. vol. 185; p. 545.
Cooper, Leslie A., Springfield, Mass. Sanitary drinking-fountain. No. 1,033,063; July 16; Gaz. vol. 180; p. 845.
Cooper, Leslie A., assignor of one-half to G. W. Kimball, Springfield, Mass. Sanitary drinking-fountain. No. 1,031,051; July 2; Gaz. vol. 180; p. 72.
Cooper, Matthew A., St. Louis, Mo. Buckle. No. 1,018,880; Feb. 27; Sp. p. 5873; Gaz. vol. 175; p. 1013.
Cooper, Russell P. (See Felts, Samuel E., assignor.)
Cooper, Thomas, Kings Lynn, England. Manufacture of bearing-sleeves. No. 1,048,945; Dec. 31; Gaz. vol. 185; p. 1225.
Cooper, William C., Springfield, Ill. Brake for vehicles. No. 1,040,515; Oct. 8; Gaz. vol. 183; p. 315.
Cooper, William F., Norwalk, Ohio. Tracker-bar. No. 1,032,467; July 16; Gaz. vol. 180; p. 643.
Cooper, William F., and E. P. Chase, Norwalk, Ohio; said Chase assignor to The A. B. Chase Company. Expression mechanism for pianos. No. 1,028,440; June 4; Sp. p. 828; Gaz. vol. 179; p. 125.
Cooper, William F., and E. P. Chase, Norwalk, Ohio; said Chase assignor to The A. B. Chase Company. Slide-valve for air-motors. No. 1,028,862; June 11; Sp. p. 1713; Gaz. vol. 179; p. 300.
Cooper, William J., Rodeo, Cal. Rail-fastener. No. 1,018,962; Feb. 27; Sp. p. 6045; Gaz. vol. 175; p. 1042.
Cooper, William R., London, England. Heater. No. 1,047,389; Dec. 17; Gaz. vol. 185; p. 623.
Coopersmith, Rudolph, St. Louis, Mo. Sofa-bedstead. No. 1,043,071; Nov. 5; Gaz. vol. 184; p. 8.
Coopersmith, Rudolph, St. Louis, Mo. Bed-bottom fabric. No. 1,044,627; Nov. 19; Gaz. vol. 184; p. 612.
Cope, Elmer E., Dubois, Pa. Lubricator. No. 1,014,568; Jan. 9; Sp. p. 3222; Gaz. vol. 174; p. 536.
Cope, Frank T., Alliance, Ohio. Trolley-contact. No. 1,027,103; May 21; Sp. p. 4498; Gaz. vol. 178; p. 757.
Cope, John W., Cumberland, Md. Bottle-carrier. No. 1,026,788; May 21; Sp. p. 3739; Gaz. vol. 178; p. 647.
Cope, Joseph H., Windsor, Colo. Unloading attachment for sweep-rakes. No. 1,034,692; Aug. 6; Gaz. vol. 181; p. 96.
Cope, Thomas J., Philadelphia, Pa. Elevating or separating jack for electrical cables or wires. No. 1,027,104; May 21; Sp. p. 4499; Gaz. vol. 178; p. 758.
Copeland, Edwin T. and E. W., New York, N. Y. Fire-extinguishing apparatus. No. 1,029,277; June 11; Sp. p. 2613; Gaz. vol. 179; p. 443.
Copeland, Edwin W. (See Copeland, Edwin T. and E. W.)
Copeland, George W., assignor of one-half to J. W. Karr, Ensley, Ala. Harrow. No. 1,020,189; Mar. 12; Sp. p. 2526; Gaz. vol. 176; p. 429.
Copeland, George W., assignor of one-half to J. W. Karr, Ensley, Ala. Brush. No. 1,028,547; June 4; Sp. p. 1049; Gaz. vol. 179; p. 160.
Copeland, Ridley, Wallsend, England. Metallic packing for piston and like rods. No. 1,034,425; Aug. 6; Gaz. vol. 181; p. 9.
Copenhagen, Henry, *et al.* (See Shoemaker, Alvin H., assignor.)
Copithorn, Walter E., Natick, Mass. Detachable rim for pneumatic tires. No. 1,013,374; Jan. 2; Sp. p. 629; Gaz. vol. 174; p. 100.
Copley, Noiberto G., Fostoria, Ohio. Damper-regulator. No. 1,034,084; July 30; Gaz. vol. 180; p. 1255.
Copley, Noiberto G., Fostoria, Ohio. Gage-cock. No. 1,034,085; July 30; Gaz. vol. 180; p. 1256.
Copp, John. (See Hein, Max L., assignor.)
Copp, Roy W. (See Forsyth, Benjamin F., assignor.)
Coppage, Benjamin D., Wilmington, Del. Combined conveyer and scraper for centrifugal machines. No. 1,028,934; June 11; Sp. p. 1887; Gaz. vol. 179; p. 326.
Coppage, Benjamin D., Wilmington, Del. Centrifugal machine. No. 1,030,973; July 2; Gaz. vol. 180; p. 43.
Coppage, Benjamin D., Wilmington, Del. Combined scraping and conveying means for centrifugal machines. No. 1,030,974; July 2; Gaz. vol. 180; p. 43.
Coppage, Benjamin D., Wilmington, Del. Testing instrument. No. 1,037,596; Sept. 3; Gaz. vol. 182; p. 140.
Coppage, Benjamin D., Wilmington, Del. Screening-machine for paper-pulp. No. 1,037,597; Sept. 3; Gaz. vol. 182; p. 141.
Copper Oil Products Company. (See Ellis, Carleton, assignor.)
Copping, James H., Vancouver, British Columbia, Canada. Cutter-head. No. 1,047,752; Dec. 17; Gaz. vol. 185; p. 752.
Coppins, Scott R., Princeton, Ill. Top. No. 1,038,299; Sept. 10; Gaz. vol. 182; p. 410.
Coppins, Scott R., assignor of one-half to S. S. Evans, Princeton, Ill. Hub-bearing. No. 1,035,421; Aug. 13; Gaz. vol. 181; p. 376.
Coqueugniot, Gustave H., Los Angeles, assignor to M. L. Rice, San Francisco, Cal. Copying apparatus. No. 1,040,976; Oct. 8; Gaz. vol. 183; p. 473.
Coram, John C., Lowell, Mass. Receptacle made of paper and similar sheet material. No. 1,030,163; June 18; Sp. p. 4542; Gaz. vol. 179; p. 785.
Corbett, Edward J., Sacramento, Cal. Flexible joint. No. 1,023,924; Apr. 23; Sp. p. 4625; Gaz. vol. 177; p. 823.
Corbett, Edward J., Sacramento, Cal. Flexible air or steam joint. No. 1,027,694; May 28; Sp. p. 5700; Gaz. vol. 178; p. 993.
Corbett, Harry A., New York, N. Y. Eye-protector. No. 1,025,124; May 7; Sp. p. 28; Gaz. vol. 178; p. 6.
Corbett, Harvey R., Vancouver, British Columbia, Canada. Faucet. No. 1,044,143; Nov. 12; Gaz. vol. 184; p. 414.
Corbett, James H., Jr., Syracuse, N. Y., assignor, by mesne assignments, to E. M. Worden, Salem, Va. Electric-alarm mail-box. No. 1,017,513; Feb. 13; Sp. p. 2834; Gaz. vol. 175; p. 478.
Corbett, Michael A., Columbus, Ohio. Gas-meter connection. No. 1,036,076; Aug. 20; Gaz. vol. 181; p. 635.
Corbett, Thomas E., Pittsburgh, Pa. Fruit-pressing device. No. 1,034,207; July 30; Gaz. vol. 180; p. 1206.
Corbin Cabinet Lock Company, The. (See Stone, Elmer B., assignor.)
Corbin, Charles B., Grand Rapids, Mich. Garment-hanger. No. 1,017,854; Feb. 20; Sp. p. 3590; Gaz. vol. 175; p. 629.
Corbin, Charles B., Grand Rapids, Mich. Bracket and case. No. 1,028,811; June 4; Sp. p. 1593; Gaz. vol. 179; p. 249.
Corbin, Joseph, Columbus, Ohio. Spring-wheel. No. 1,015,785; Jan. 30; Sp. p. 5933; Gaz. vol. 174; p. 1038.
Corbin, Marion X., Savannah, Ga. Disappearing crib. No. 1,035,539; Aug. 13; Gaz. vol. 181; p. 416.
Corbin, Paul E. C., assignor to Société Universelle d'Explosifs (Anciennement: Bergès, Corbin & Cie.), Paris, France. Manufacture of explosives. No. 1,041,745; Oct. 22; Gaz. vol. 183; p. 799.
Corbin Screw Corporation. (See Glover and Holt, assignors.)
Corbit, Wardner N., Farragut, Iowa. Wireless check-rower. No. 1,029,595; June 18; Sp. p. 3310; Gaz. vol. 179; p. 588.
Corbitt, Hebber S., Norfolk, Va. Propelling mechanism for bicycles and the like. No. 1,015,996; Jan. 30; Sp. p. 6385; Gaz. vol. 174; p. 1111.
Corbitt, James H. (See Joyner, William T., assignor.)
Corcoran, Cornelius B., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 1,021,970; Apr. 2; Sp. p. 472; Gaz. vol. 177; p. 75.
Corcoran, Cornelius B., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 1,022,580; Apr. 9; Sp. p. 1742; Gaz. vol. 177; p. 307.
Corcoran, Cornelius B., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 1,045,374; Nov. 26; Gaz. vol. 184; p. 900.
Corcoran, Edward M., assignor to Champion Shoe Machinery Company, St. Louis, Mo. Nailing-machine. No. 1,026,021; May 14; Sp. p. 2019; Gaz. vol. 178; p. 349.
Corcoran, James J., Adrian, Mich. Farm-gate. No. 1,038,854; Sept. 17; Gaz. vol. 182; p. 637.
Corcoran, Theresé A., New York, N. Y. Window-cleaning device. No. 1,038,529; Sept. 17; Gaz. vol. 182; p. 523.
Corcos, Joseph, New York, N. Y. Hat-fastening device. No. 1,039,100; Sept. 24; Gaz. vol. 182; p. 735.
Corcuera, Carlos L., Guadalajara, Mexico. Extraction of saccharine substances. No. 1,015,941; Jan. 30; Sp. p. 6266; Gaz. vol. 174; p. 1091.
Cordeiro, Frederick J. B., U. S. Navy. Electric motor and dynamo. No. 1,019,709; Mar. 5; Sp. p. 1521; Gaz. vol. 176; p. 236.
Cordeiro, Frederick J. B., Newton Center, Mass. Sound reproducing and amplifying apparatus. No. 1,046,982; Dec. 10; Gaz. vol. 185; p. 449.
Cordell, Charles. (See Cordell, Henry, assignor.)
Cordell, Henry. (See Mock, Gerber, and Cordell.)
Cordell, Henry, Chicago, Ill., assignor of one-half to C. Cordell, Ruby, Mont. Hydraulic jack. No. 1,032,993; July 16; Gaz. vol. 180; p. 820.
Cordell, John F., Salt Lake City, Utah. Artificial limb. No. 1,043,509; Nov. 5; Gaz. vol. 184; p. 167.
Cordell, Lawrence P. (See Lunde and Cordell.)
Cordes, Frank, Oakmont, assignor to United Engineering and Foundry Co., Pittsburgh, Pa. Annealing-box. No. 1,047,390; Dec. 17; Gaz. vol. 185; p. 623.
Cordi, Leander L. (See Cordi, Thomas G. and L. L.)
Cordi, Thomas G. and L. L., Roseville, Cal. Engraving-machine. No. 1,036,526; Aug. 20; Gaz. vol. 181; p. 793.

Cordley & Hayes. (See Sherwood, William L., assignor.)
Cordley, Henry G., Glen Ridge, N. J. Faucet. No. 1,015,614; Jan. 23; Sp. p. 5565; Gaz. vol. 174; p. 953.
Cordley, Henry G., Glen Ridge, N. J. Water-cooler stand. No. 1,015,615; Jan. 23; Sp. p. 5566; Gaz. vol. 174; p. 954.
Cords, Edward F., Selby, S. D. Clamp. No. 1,021,352; Mar. 26; Sp. p. 4974; Gaz. vol. 176; p. 907.
Cordt, Hugo, Nordenham, Germany. Calculating-machine. No. 1,047,391; Dec. 17; Gaz. vol. 185; p. 623.
Cordtmeyer, Frank H., New York, N. Y. Bubble-blower. No. 1,028,994; June 11; Sp. p. 2021; Gaz. vol. 179; p. 347.
Cordts, John N. (See Stock and Cordts.)
Core, Frederick B. (See Grubman, Leo, assignor.)
Corey, Charles W., Malden, Mass. Pneumatic floor-oiler. No. 1,019,135; Mar. 5; Sp. p. 285; Gaz. vol. 176; p. 45.
Corey, Daniel W., assignor to Union Special Sewing Machine Co., Chicago, Ill. Device for controlling the upper threads of sewing-machines. No. 1,041,597; Oct. 15; Gaz. vol. 183; p. 712.
Corey, George W., San Francisco, Cal. Window-screen. No. 1,023,625; Apr. 16; Sp. p. 3979; Gaz. vol. 177; p. 699.
Corey, Harry R., New York, assignor to American Stopper Company, Brooklyn, N. Y. Bottle or jar closure. No. 1,025,375; May 7; Sp. p. 602; Gaz. vol. 178; p. 93.
Corey, Henry F., Marne, Iowa. Guard for swingletrees. No. 1,014,284; Jan. 9; Sp. p. 2653; Gaz. vol. 174; p. 442.
Corey, James A., Datchet, England. Electrodeposition of metals. No. 1,036,571; Aug. 27; Gaz. vol. 181; p. 841.
Corey, Varian S., assignor to The Hampden Watch Company, Canton, Ohio. Balance staff and roller for watches. No. 1,025,865; May 7; Sp. p. 1659; Gaz. vol. 178; p. 261.
Cork Insert Company, The. (See Whitcomb, Lawrence, assignor.)
Corl, Robert M., assignor to The Mechanical Process Manufacturing Company, Toledo, Ohio. Glassware-forming mechanism. No. 1,040,280; Oct. 8; Gaz. vol. 183; p. 234.
Corlew, Clarence M., assignor of one-third to J. Mundt, Sioux Falls, S. D. Rail-joint. No. 1,024,313; Apr. 23; Sp. p. 5465; Gaz. vol. 177; p. 958.
Corley, Clifton, Atlanta, Ga. Slub-catcher and tension device. No. 1,035,690; Aug. 13; Gaz. vol. 181; p. 466.
Corley, Clifton, Atlanta, Ga. Hammock and swing support. No. 1,048,946; Dec. 31; Gaz. vol. 185; p. 1225.
Corley, Quentin D., Dallas, Tex. Automatic hook for artificial arms. No. 1,029,794; June 18; Sp. p. 3746; Gaz. vol. 179; p. 660.
Corliss Carbon Company. (See Corliss, Frank F., assignor.)
Corliss, Frank F., Bradford, Pa., assignor to Corliss Carbon Company. Furnace. No. 1,039,101; Sept. 24; Gaz. vol. 182; p. 735.
Cormack, George, assignor to Independent Harvester Company, Plano, Ill. Muffler. No. 1,040,628; Oct. 8; Gaz. vol. 183; p. 356.
Cormican, John E., Glidden, Wis. Saw gage and jointer. No. 1,023,415; Apr. 16; Sp. p. 3549; Gaz. vol. 177; p. 632.
Cormier, Reuben S., New Bedford, Mass. Picture-suspension bar. No. 1,035,319; Aug. 13; Gaz. vol. 181; p. 340.
Cormode, John P., Chatham township, Kent county, Ontario, Canada. Evener. No. 1,038,725; Sept. 17; Gaz. vol. 182; p. 592.
Corn, Albert R. (See Peck, Edwin A., assignor.)
Corn, Albert R., Denver, Colo. Brake-block holder. No. 1,048,043; Dec. 24; Gaz. vol. 185; p. 877.
Corn Products Refining Company. (See Bauer, Louis P., assignor.)
Corn Products Refining Company. (See Jefferies, Fredrick L., assignor.)
Corn Products Refining Company. (See Jefferies and Spain, assignors.)
Corn, Robert, New York, N. Y. Scarf-pin retainer. No. 1,027,525; May 28; Sp. p. 5347; Gaz. vol. 178; p. 937.
Cornbrooks, William A., Moline, Ill., assignor to Williams, White & Company. Apparatus for packing loose material. No. 1,013,277; Jan. 2; Sp. p. 408; Gaz. vol. 174; p. 66.
Cornelison, John H., St. Louis, Mo. Swinging window-screen. No. 1,028,679; June 4; Sp. p. 1320; Gaz. vol. 179; p. 204.
Cornelison, Robert W. (See Mayer, Wiggin, and Cornelison.)
Cornelius, B. L., *et al.* (See Smith, Harold T., assignor.)
Cornelius, Benjamin L. (See Greenert, John A., assignor.)
Cornelius, Louis A., Grand Rapids, Mich. Ball-float. No. 1,036,572; Aug. 27; Gaz. vol. 181; p. 841.
Cornelius, Louis A., Grand Rapids, Mich. Float-valve for tanks. No. 1,041,746; Oct. 22; Gaz. vol. 183; p. 800.
Cornell, Charles G., Jr. (See Grimm, Paul H., assignor.)
Cornell Economizer Company. (See Townsend, David, assignor.)
Cornell, Evan W., Adrian, Mich. Sad-iron. No. 1,040,281; Oct. 8; Gaz. vol. 183; p. 234.
Cornell, George C., Canton, Pa. Folding box. No. 1,014,951; Jan. 16; Sp. p. 4164; Gaz. vol. 174; p. 700.
Cornell, George C., Canton, Pa. Crank device for internal-combustion engines. No. 1,037,133; Aug. 27; Gaz. vol. 181; p. 1028.
Cornell, George C., Canton, Pa. Box-fastener. No. 1,043,072; Nov. 5; Gaz. vol. 184; p. 8.
Cornell, Joseph D., *et al.* (See Crosbie, Daniel L., assignor.)
Cornett, Sigurd C., and A. D. Davenport, Gustine, Cal. Automatic inlet-valve. No. 1,019,603; Mar. 5; Sp. p. 1331; Gaz. vol. 176; p. 201.
Cornfield, Saul. (See McClintock, Charles D., assignor.)
Cornil, Frank J., Argenta, Ark. Chuck. No. 1,033,547; July 23; Gaz. vol. 180; p. 1045.
Cornine, Marshall, New York, N. Y. Testing-machine. No. 1,016,322; Feb. 6; Sp. p. 197; Gaz. vol. 175; p. 30.
Corning Glass Works. (See Churchill, William, assignor.)
Corning Glass Works. (See Woods, William J., assignor.)
Cornish, Harry B., Minneapolis, Minn. Pump for vacuum systems. No. 1,048,947; Dec. 31; Gaz. vol. 185; p. 1225.
Corno Mills Co. (See Holden, Edward P., assignor.)
Cornuelle, Theodore. (See Shafer and Cornuelle.)
Cornwall, F. R., administrator. (See Wageley, Robert E.)
Cornwall, Frederick R., St. Louis, Mo., assignor to C. T. Patterson Company, Ltd., New Orleans, La. Chain conveyer. No. 1,038,726; Sept. 17; Gaz. vol. 182; p. 592.
Cornwall, Frederick R., assignor to Williams Patent Crusher and Pulverizer Company, St. Louis, Mo. Pulverizer. No. 1,039,102; Sept. 24; Gaz. vol. 182; p. 735
Cornwall, Frederick R., St. Louis, Mo., assignor to Chicago Railway Equipment Company, Chicago, Ill. Brake-head. No. 1,045,261; Nov. 26; Gaz. vol. 184; p. 861.
Cornwall, George R., Rye, N. Y., assignor to American Planograph Company. Composing device. No. 1,013,477; Jan. 2; Sp. p. 844; Gaz. vol. 174; p. 135.
Cornwall, John B., assignor to Barnard and Leas Manufacturing Company, Moline, Ill. Grain-drier. No. 1,014,122; Jan. 9; Sp. p. 2311; Gaz. vol. 174; p. 385.
Cornwall, Stephen N., Springfield, Mo. Curbing, &c. No. 1,020,887; Mar. 19; Sp. p. 4002; Gaz. vol. 176; p. 697.
Cornwell, Claude C., Toledo, Ohio. Corn-popper with detachable handle and lid. No. 1,039,261; Sept. 24; Gaz. vol. 182; p. 793.
Cornwell, Frank L., *et al.* (See Leggett, Ross M., assignor.)
Cornwell, Frank S., New Haven, Conn. Dial for watches or clocks. No. 1,024,558; Apr. 30; Sp. p. 6076; Gaz. vol. 177; p. 1076.
Corporation of Dellwik-Fleischer Wassergas Gesellschaft m. b. H., The. (See Dolensky, Eugen, assignor.)
Corrao, Felix B., Brooklyn, N. Y. Toy. No. 1,034,586; Aug. 6; Gaz. vol. 181; p. 62.
Corrington, Aldon R. (See Frambach and Corrington.)
Corrington, Murray, New York, N. Y., assignor, by mesne assignments, to The Westinghouse Air Brake Company, Pittsburgh, Pa. Automatic valve device for air-brakes. No. 1,037,443; Sept. 3; Gaz. vol. 182; p. 90.
Corrington, Murray, New York, N. Y., assignor, by mesne assignments, to The Westinghouse Air Brake Company, Pittsburgh, Pa. Maintaining device for air-brakes. No. 1,037,444; Sept. 3; Gaz. vol. 182; p. 91.
Corrington, Murray, New York, N. Y., assignor, by mesne assignments, to The Westinghouse Air Brake Company, Pittsburgh, Pa. Fluid-pressure-brake apparatus. No. 1,037,445; Sept. 3; Gaz. vol. 182; p. 91.
Corroyer, Joseph, Oakland, Cal. Acetylene-gas generator. No. 1,016,475; Feb. 6; Sp. p. 543; Gaz. vol. 175; p. 84.
Corrugated Bar Company. (See Burk, William H., assignor.)
Corrugated Bar Company. (See Clark, Arthur P., assignor.)
Corrugated Bar Company. (See Hickman, Harvey H., assignor.)
Corrugated Bar Company. (See Johnson, Albert L., assignor.)
Corrugated Bar Company. (See Lindau, Alfred E., assignor.)
Corry Castor Company. (See Covey, Nathan S., assignor.)
Corry Castor Company. (See Thompson, Frank E., assignor.)
Corser, George E. (See Roberts and Corser.)
Corsi, Antonio J., Irish Town, Gibraltar. Funnel. No. 1,028,680; June 4; Sp. p. 1322; Gaz. vol. 179; p. 204.
Corson, Fred L., Rochester, N. H. Innersole. No. 1,034,208; July 30; Gaz. vol. 180; p. 1297.
Cortinas, Eugenio F., Breaux Bridge, La. Drill. No. 1,029,491; June 11; Sp. p. 3084; Gaz. vol. 179; p. 517.
Cortinas, Eugenio F., Breaux Bridge, La. Rivet-catcher. No. 1,035,161; Aug. 13; Gaz. vol. 181; p. 284.
Corts, August, Wyncote, assignor to William Wharton, Jr., & Company, Incorporated, Philadelphia, Pa. Movement-retarding device for rails. No. 1,020,802; Mar. 19; Sp. p. 3822; Gaz. vol. 176; p. 670.
Corvilain, Ferdinand J., Bilbao, Spain. Diamond-set tool. No. 1,030,284; June 25; Sp. p. 4841; Gaz. vol. 179; p. 866.
Corwin, Elmer R., assignor to Corwin Telephone Manufacturing Company, Chicago, Ill. Telephony. No. 1,030,504; June 25; Sp. p. 5351; Gaz. vol. 179; p. 946.

Alphabetical list of patentees—Continued.

Corwin, Elmer R., Chicago, Ill., assignor to Corwin Telephone Manufacturing Company. Telephone system. No. 1,030,505; June 25; Sp. p. 5357; Gaz. vol. 179; p. 946.
Corwin, Elmer R., assignor to Corwin Telephone Manufacturing Company, Chicago, Ill. Telephone-exchange system. No. 1,033,877; July 30; Gaz. vol. 180; p. 1181.
Corwin, Elmer R., assignor to Corwin Telephone Manufacturing Company, Chicago, Ill. Telephone system. No. 1,040,629; Oct. 8; Gaz. vol. 183; p. 356.
Corwin, Elmer R., assignor to Corwin Telephone Manufacturing Company, Chicago, Ill. Telephone system. No. 1,040,630; Oct. 8; Gaz. vol. 183; p. 357.
Corwin, Elmer R., assignor to Corwin Telephone Manufacturing Company, Chicago, Ill. Busy-test for telephone systems. No. 1,040,631; Oct. 8; Gaz. vol. 183; p. 358.
Corwin, Elmer R., assignor to Corwin Telephone Manufacturing Company, Chicago, Ill. Telephone system. No. 1,040,632; Oct. 8; Gaz. vol. 183; p. 358.
Corwin, Elmer R., assignor to Corwin Telephone Manufacturing Company, Chicago, Ill. Telephone system. No. 1,040,633; Oct. 8; Gaz. vol. 183; p. 359.
Corwin, Elmer R., assignor to Corwin Telephone Manufacturing Company, Chicago, Ill. Telephone-exchange system. No. 1,040,634; Oct. 8; Gaz. vol. 183; p. 360.
Corwin Telephone Manufacturing Company. (See Bals, Charles A., assignor.)
Corwin Telephone Manufacturing Company. (See Corwin, Elmer R., assignor.)
Corwin Telephone Manufacturing Company. (See Johnson, Morton L., assignor.)
Corwin Telephone Manufacturing Company. (See Royal, Roscoe, assignor.)
Cory, William M., *et al.* (See Lancaster, Charles P., assignor.)
Coryell, Edwin M., South Orange, N. J. Ash-can cover. No. 1,046,377; Dec. 3; Gaz. vol. 185; p. 201.
Cosavello, Joseph, Moyie, British Columbia, Canada. Device for preventing spread of explosions in coal-mines. No. 1,029,596; June 18; Sp. p. 3311; Gaz. vol. 179; p. 588.
Cosby, Edward G., Slaughterville, Ky. Saw-set. No. 1,030,976; July 2; Gaz. vol. 180; p. 44.
Coscia, Louia. (See Prince and Coscia.)
Coseo, Frederick C. (See Sessions and Coseo.)
Cosey, Henry M., Enid, Okla. Waste-receptacle. No. 1,043,510; Nov. 5; Gaz. vol. 184; p. 167.
Cosgrove, Joseph J., Philadelphia, Pa. Water-closet connection. No. 1,029,425; June 11; Sp. p. 2960; Gaz. vol. 179; p. 495.
Cosmo Contracting Syndicate Limited. (See Greaves, Wallace M., assignor.)
Cosmovici, Georges C., Bucharest, Roumania. Axle-box for railway-cars. No. 1,040,638; Oct. 8; Gaz. vol. 183; p. 362.
Cossar, Thomas, Otley, England. Printing-machine. No. 1,020,190; Mar. 12; Sp. p. 2529; Gaz. vol. 176; p. 429.
Cossey, Myron, Brooklyn, assignor to Reliance Ball-Bearing Door Hanger Company, New York, N. Y. Operating mechanism for sliding doors. No. 1,023,723; Apr. 16; Sp. p. 4143; Gaz. vol. 177; p. 727.
Cossey, Myron, Brooklyn, assignor to Reliance Ball Bearing Door Hanger Co., New York, N. Y. Drawer-slide. No. 1,045,523; Nov. 26; Gaz. vol. 184; p. 955.
Costanzo, Joseph J., Alexandria, Egypt. Life-saving garment for aviators. No. 1,042,327; Oct. 22; Gaz. vol. 183; p. 996.
Coste, Eugène, Paris, France. Gem-setting. No 1,032,116; July 9; Gaz. vol. 180; p. 478.
Costello, George J., Philadelphia, Pa. Key-seating machine. No. 1,038,855; Sept. 17; Gaz. vol. 182; p. 638.
Costello, George J., Philadelphia, Pa. Lathe. No. 1,045,524; Nov. 26; Gaz. vol. 184; p. 955.
Costello, James, Hinckley, Minn., assignor to National Checking Company. Memorandum-pad holder. No. 1,027,991; May 28; Sp. p. 6366; Gaz. vol. 178; p. 1093.
Costello, John F., San Francisco, Cal. Mop-holder. No. 1,042,202; Oct. 22; Gaz. vol. 183; p. 954.
Costello, Joseph A. (See Bidle and Costello.)
Costello, Joseph A., assignor to Cleveland Car Specialty Company, Cleveland, Ohio. Carline for car-roof frames. No. 1,033,548; July 23; Gaz. vol. 180; p. 1045.
Costello, Joseph A., assignor to Cleveland Car Specialty Company, Cleveland, Ohio. Car-roof frame. No. 1,033,549; July 23; Gaz. vol. 180; p. 1046.
Costello, Loretto A., Philadelphia, Pa., assignor, by mesne assignments, to Scott & Williams, Incorporated, Camden, N. J. Knitted web and stocking made therefrom. No. 1,025,125; May 7; Sp. p. 30; Gaz. vol. 178; p. 6.
Costuma, Jacob A., New York, N. Y. Picture-hook. No. 1,025,964; May 14; Sp. p. 1914; Gaz. vol. 178; p. 330.
Côté, Henry, West Warren, assignor to Ware Machine & Loom Company, Ware, Mass. Picker-check. No. 1,023,197; Apr. 16; Sp. p. 3126; Gaz. vol. 177; p. 559.
Côté, Henry, West Warren, assignor to Ware Machine & Loom Company, Ware, Mass. Picker-stick check. No. 1,023,362; Apr. 16; Sp. p. 3439; Gaz. vol. 177; p. 614.
Côté, Henry, West Warren, assignor to Ware Machine & Loom Company, Ware, Mass. Loom. No. 1,035,115; Aug. 6; Gaz. vol. 181; p. 237.
Côté, Henry, West Warren, and R. C. Snow, assignors to Ware Machine & Loom Company, Ware, Mass. Picker-check. No. 1,024,036; Apr. 23; Sp. p. 4859; Gaz. vol. 177; p. 861.
Cotoli, Antonio, Habana, Cuba. Variable-speed driving mechanism. No. 1,033,991; July 30; Gaz. vol. 180; p. 1222.
Cotta, Charles, assignor to Cotta Transmission Co., Inc., Rockford, Ill. Change-speed gearing. (Reissue.) No. 13,363; Jan. 16; Sp. p. 4821; Gaz. vol. 174; p. 812.
Cotta Transmission Co. (See Cotta, Charles, assignor.) (Reissue.)
Cotter, Edward J. and J. J., Philadelphia, Pa. Spinning-machine. No. 1,021,448; Mar. 26; Sp. p. 5205; Gaz. vol. 176; p. 942.
Cotter, John J. (See Cotter, Edward J. and J. J.)
Cottier, Frank E., Mound City, Mo. Rail-joint. No. 1,029,492; June 11; Sp. p. 3085; Gaz. vol. 179; p. 518.
Cottle, John B., Rosebud, Tex. Ironing-board. No. 1,024,720; Apr. 30; Sp. p. 6425; Gaz. vol. 177; p. 1132.
Cottle, Thomas W., Oakland, Kans. Deck sash and transom. No. 1,037,134; Aug. 27; Gaz. vol. 181; p. 1028.
Cotton, Herbert M. (See Cotton, Orville D. and H. M.)
Cotton, Orville D. and H. M., Dayton, Ohio. Stoker-furnace. No. 1,018,649; Feb. 27; Sp. p. 5399; Gaz. vol. 175; p. 935.
Cotton, Orville D. and H. M., Dayton, Ohio. Furnace. No. 1,023,817; Apr. 23; Sp. p. 4351; Gaz. vol. 177; p. 787.
Cottreal, Daniel C. (See Bausman and Cottreal.)
Cottrell, Charles P., Westerly, R. I., assignor to C. B. Cottrell & Sons Company, New York, N. Y. Manufacture of electrotype-plates. No. 1,034,880; Aug. 6; Gaz. vol. 181; p. 162.
Cottrell, Charles P., Westerly, R. I., assignor to C. B. Cottrell & Sons Company, New York, N. Y. Machine for backing up electrotype-shells. No. 1,034,881; Aug. 6; Gaz. vol. 181; p. 162.
Cottrell, Edgar H., Stonington, Conn., assignor to C. B. Cottrell & Sons Company, New York, N. Y. Cutting and folding machine. No. 1,047,503; Dec. 17; Gaz. vol. 185; p. 663.
Cottrell, Frederick G., Berkeley, assignor to International Precipitation Company, San Francisco, Cal. Purification of gases. No. 1,016,476; Feb. 6; Sp. p. 545; Gaz. vol. 175; p. 84.
Cottrell, Frederick G., Berkeley, and H. A. Burns, Oakland, assignors to International Precipitating Company, San Francisco, Cal. Apparatus for separating suspended particles from gaseous bodies. No. 1,035,422; Aug. 13; Gaz. vol. 181; p. 376.
Cottrell, George A. (See Sheetz and Cottrell.)
Cottrell, George E., Northfield, and S. L. Shippey, Bennington, assignors to Vermont Hosiery and Machinery Company, Northfield, Vt. Machine for knitting stockings. No. 1,034,346; July 30; Gaz. vol. 180; p. 1345.
Cottrell, George R., Anglesea, N. J. Gas and air mixing meter. No. 1,042,403; Oct. 29; Gaz. vol. 183; p. 1049.
Cottrell, Henry W. (See Rountree, Henry W., assignor.)
Cottrell, William, assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Safety manipulating device. No. 1,046,378; Dec. 3; Gaz. vol. 185; p. 202.
Couch, Royden O., Charleston, W. Va. Trolley-hanger. No. 1,014,569; Jan. 9; Sp. p. 3227; Gaz. vol. 174; p. 537.
Couch, Royden O., Charleston, W. Va. Trolley-hanger. No. 1,045,262; Nov. 26; Gaz. vol. 184; p. 861.
Coughlin, Charles, Jersey City, N. J. Spring-wheel. No. 1,025,080; Apr. 30; Sp. p. 7154; Gaz. vol. 177; p. 1255.
Coulombe, Arthur, New Bedford, Mass. Railway-switch. No. 1,032,815; July 16; Gaz. vol. 180; p. 762.
Couls, George R., Tacoma, Wash. Plant-watering device. No. 1,029,107; June 11; Sp. p. 2256; Gaz. vol. 179; p. 385.
Coulson, David E., Boulder, Colo. Dental instrument. No. 1,046,560; Dec. 10; Gaz. vol. 185; p. 305.
Coulston, Earl V. (See Nieberding and Coulston.)
Coulston, Earl V., Cleveland, Ohio. Stove structure. No. 1,032,816; July 16; Gaz. vol. 180; p. 763.
Coulston, Harry, assignor to Philadelphia Textile Machinery Company, Philadelphia, Pa. Feed-rolls for veneer-driers. No. 1,016,737; Feb. 6; Sp. p. 1133; Gaz. vol. 175; p. 174.
Coulston, Harry, assignor to The Philadelphia Textile Machinery Company, Philadelphia, Pa. Conveyer. No. 1,022,929; Apr. 9; Sp. p. 2513; Gaz. vol. 177; p. 428.
Coulston, Harry, assignor to The Philadelphia Textile Machinery Company, Philadelphia, Pa. Stocking-drier. No. 1,046,983; Dec. 10; Gaz. vol. 185; p. 449.
Coulter, Charles J., Hammond, Ind. Combined rail drill and clamp. No. 1,016,477; Feb. 6; Sp. p. 548; Gaz. vol. 175; p. 84.
Coulter, Curtis C., Rock Island, Ill. Shaft and tongue coupling. No. 1,022,304; Apr. 2; Sp. p. 1150; Gaz. vol. 177; p. 184.
Coulter, Harry M., Boston, Mass. Carbureter. No. 1,044,754; Nov. 19; Gaz. vol. 184; p. 658.

Alphabetical list of patentees—Continued.

Coulter, James, Bridgeport, Conn., assignor, by mesne assignments, to The Automatic Chain Company, Buffalo, N. Y. Wire-chain machine. No. 1,023,126; Apr. 16; Sp. p. 2947; Gaz. vol. 177; p. 534.
Coulter, Louis C., and F. Powell, Portland, Oreg. Bag-turning machine. No. 1,046,561; Dec. 10; Gaz. vol. 185; p. 306.
Coulter & Sons, William. (See Hazard, Frederick J. H., assignor.)
Coulter, Thomas G. (See Moor, Harry, assignor.)
Coulter, Thomas H., Cleveland, Ohio, assignor of one-half to J. T. Schleifenheimer. Metallic resilient wheel. No. 1,037,446; Sept. 3; Gaz. vol. 182; p. 92.
Coulter, William, Lorain, Ohio. Boat-lashing device. No. 1,014,123; Jan. 9; Sp. p. 2313; Gaz. vol. 174; p. 386.
Coulter, William, Lorain, Ohio. Boat-detaching apparatus. No. 1,021,353; Mar. 26; Sp. p. 4975; Gaz. vol. 176; p. 908.
Coulter, William B., Seattle, Wash. Liquid-sprayer. No. 1,039,365; Sept. 24; Gaz. vol. 182; p. 828.
Coultrup, John A., Colorado Springs, Colo. Adjusting-table for chiropractors. No. 1,036,573; Aug. 27; Gaz. vol. 181; p. 842.
Councill, John L., J. E. Tharpe, and T. M. Dale, Statesville, N. C. Air-propelled car-fan. No. 1,027,462; May 28; Sp. p. 5223; Gaz. vol. 178; p. 916.
Coupal, Arthur E., South Boston, Mass., assignor to Buffalo Shoe Co., Buffalo, N. Y. Staple making and driving mechanism. No. 1,035,320; Aug. 13; Gaz. vol. 181; p. 340.
Coupal, Arthur E., South Boston, Mass., assignor to Buffalo Shoe Co., Buffalo, N. Y. Staple. No. 1,039,103; Sept. 24; Gaz. vol. 182; p. 736.
Coupal, Peter A., South Boston, Mass., assignor to Buffalo Shoe Co., Buffalo, N. Y. Machine for making and driving staples. No. 1,025,248; May 7; Sp. p. 303; Gaz. vol. 178; p. 50.
Coupal, Peter A., South Boston, Mass., assignor to Buffalo Shoe Co., Buffalo, N. Y. Welt-guide. No. 1,030,285; June 25; Sp. p. 4842; Gaz. vol. 179; p. 866.
Coupal, Peter A., South Boston, Mass., assignor to Buffalo Shoe Co., Buffalo, N. Y. Work-supporting-horn pressure and locking mechanism. No. 1,031,985; July 9; Gaz. vol. 180; p. 435.
Couper, E. J., *et al.* (See Chatfield, Franklin, assignor.)
Couper, William D., Chicago, Ill. Polishing or dressing machine. No. 1,026,076; May 14; Sp. p. 2185; Gaz. vol. 178; p. 369.
Couplin, Levi S., South Greenfield, Mo. Screen. No. 1,014,570; Jan. 9; Sp. p. 3228; Gaz. vol. 174; p. 537.
Couplin, Levi S., South Greenfield, Mo. Canopy-screen for doors. No. 1,036,801; Aug. 27; Gaz. vol. 181; p. 917.
Coursen, Joseph A., West Orange, N. J. Windlass. No. 1,032,742; July 16; Gaz. vol. 180; p. 739.
Coursen, William A. (See Fulton and Coursen.)
Courson, Cornelius F., assignor of one-half to P. Lenzi, Memphis, Tenn. Window-screen hanger. No. 1,036,078; Aug. 20; Gaz. vol. 181; p. 636.
Courson, Cornelius F., assignor of one-half to P. Lenzi, Memphis, Tenn. Combined rail-joint and securing device. No. 1,039,031; Sept. 17; Gaz. vol. 182; p. 695.
Courson, Cornelius F., assignor of one-half to P. Lenzi, Memphis, Tenn. Device for securing railway-rails to ties. No. 1,039,032; Sept. 17; Gaz. vol. 182; p. 695.
Courson, Cornelius F., assignor of one-half to P. Lenzi, Memphis, Tenn. Screen-hanger. No. 1,045,525; Nov. 26; Gaz. vol. 184; p. 956.
Courson, John F., Pitcairn, Pa. Draft-gear. No. 1,031,424; July 2; Gaz. vol. 180; p. 201.
Courson, Oliver H., Memphis, Tenn. Device for securing rails to ties. No. 1,029,426; June 11; Sp. p. 2962; Gaz. vol. 179; p. 495.
Courson, Oliver H., Memphis, Tenn. Rail-joint. No. 1,043,570; Nov. 5; Gaz. vol. 184; p. 188.
Court, Edward, assignor of one-half to M. J. Fischbach, Milwaukee, Wis. Bottle-tray. No. 1,023,925; Apr. 23; Sp. p. 4626; Gaz. vol. 177; p. 823.
Courtin, Edouard E., Paris, France. Advertisement apparatus. No. 1,035,861; Aug. 20; Gaz. vol. 181; p. 561.
Courtland, William A., New York, N. Y. Spool-holder. No. 1,020,401; Mar. 19; Sp. p. 2948; Gaz. vol. 176; p. 536.
Courtney, Dana S., Chicopee, Mass. Machine for boring wooden bobbins. No. 1,043,205; Nov. 5; Gaz. vol. 184; p. 57.
Courtney, Dana S., Chicopee, Mass. Wood-turning machine. No. 1,046,149; Dec. 3; Gaz. vol. 185; p. 121.
Courtney, Louise M. (See Courtney, William T., assignor.)
Courtney, Moyland E., Fair Play, Mo. Spring-tire for vehicle-wheels. No. 1,031,530; July 2; Gaz. vol. 180; p. 237.
Courtney, William E., assignor to Minneapolis Bedding Company, Minneapolis, Minn. Hospital-bed. No. 1,032,743; July 16; Gaz. vol. 180; p. 739.
Courtney, William T., assignor of one-half to L. M. Courtney, Chicago, Ill. Cleaner for abrading-rolls. No. 1,039,262; Sept. 24; Gaz. vol. 182; p. 793.
Courts, Benjamin D., Cincinnati, Ohio. Spring-bed. No. 1,013,642; Jan. 2; Sp. p. 1198; Gaz. vol. 174; p. 191.
Courts, Benjamin D., Cincinnati, Ohio. Spring-bed. No. 1,016,402; Feb. 6; Sp. p. 374; Gaz. vol. 175; p. 59.
Courts, Benjamin D., assignor, by mesne assignments, to Dixie Cotton Felt Mattress Company, Chicago, Ill. Filling mattresses. No. 1,021,971; Apr. 2; Sp. p. 477; Gaz. vol. 177; p. 76.
Courts, Benjamin D., assignor, by mesne assignments, to Dixie Cotton Felt Mattress Company, Chicago, Ill. Apparatus for severing or separating sheets of material. No. 1,022,930; Apr. 9; Sp. p. 2514; Gaz. vol. 177; p. 429.
Courtwright, Edgar D. (See Courtwright, Elmer L. and E. D.)
Courtwright, Elmer L. and E. D., Tacoma, Wash. Internal-combustion engine and the like. No. 1,039,492; Sept. 24; Gaz. vol. 182; p. 872.
Courville, Joseph, Detroit, Mich. Mechanical piano-player. No. 1,018,167; Feb. 20; Sp. p. 4308; Gaz. vol. 175; p. 739.
Courville, Julius, Frankfort, Mich. Corner-brace for trays, boxes, and the like. No. 1,031,691; July 9; Gaz. vol. 180; p. 335.
Courville, Julius, Frankfort, Mich. Corner-bracket. No. 1,045,815; Dec. 3; Gaz. vol. 185; p. 7.
Cousans, Louis B., Lincoln, England. Apparatus for blowing pipe-organs, harmoniums, or like musical instruments. No. 1,018,483; Feb. 27; Sp. p. 4988; Gaz. vol. 175; p. 878.
Cousans, Louis B., London, England. Casing for centrifugal fans and pumps. No. 1,019,762; Mar. 12; Sp. p. 1642; Gaz. vol. 176; p. 286.
Couson, William B. (See Wilson and Couson.)
Coutant, Jay G., Watervliet, N. Y. Pliers for clamping clips. No. 1,042,404; Oct. 29; Gaz. vol. 183; p. 1049.
Coutelle, Carl. (See Hofmann and Coutelle.)
Coutu, George J., Lowell, Mass. Fire-extinguishing apparatus. No. 1,023,506; Apr. 16; Sp. p. 3728; Gaz. vol. 177; p. 659.
Couture, Anthony, Chicopee, Mass., assignor to A. G. Spalding & Bros. Manf'g Co. Exercising device, (vaulting-bar.) No. 1,047,754; Dec. 17; Gaz. vol. 185; p. 753.
Couture, William L., assignor of one-tenth to Z. Moore, San Francisco, Cal. Level. No. 1,024,831; Apr. 30; Sp. p. 6658; Gaz. vol. 177; p. 1172.
Covel Manufacturing Company. (See Filstrup, Eddie C., assignor.)
Covell, George S., Lynn, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Shoe-ironing apparatus. No. 1,030,647; June 25; Sp. p. 5831; Gaz. vol. 179; p. 998.
Covell, Harry N., New York, N. Y., assignor to Lidgerwood Manufacturing Company. Emergency-brake for hoist-engines. No. 1,013,131; Jan. 2; Sp. p. 82; Gaz. vol. 174; p. 15.
Covell, Harry N., assignor to Lidgerwood Manufacturing Company, New York, N. Y. Rope-winding engine. No. 1,042,090; Oct. 22; Gaz. vol. 183; p. 918.
Covell, Stephen A., Pittsburg, Kans. Wagon-box No. 1,034,587; Aug. 6; Gaz. vol. 181; p. 62.
Coventry, Lucy M., Adelaide, South Australia, Australia. Indicator. No. 1,048,445; Dec. 24; Gaz. vol. 185; p. 1012.
Cover, John W., Seattle, Wash. Pencil-sharpener. No. 1,046,379; Dec. 3; Gaz. vol. 185; p. 202.
Cover, Samuel E., *et al.* (See Ellis, William J., assignor.)
Cover, Thomas, Jr., *et al.* (See Ellis, William J., assignor.)
Covert, Edson C., Chicago, Ill., assignor to American Steel Foundries, New York, N. Y. Machine for molding. No. 1,027,595; May 28; Sp. p. 5495; Gaz. vol. 178; p. 961.
Covert, Edson C., Chicago, Ill., assignor to American Steel Foundries, New York, N. Y. Clamp for flasks. No. 1,027,695; May 28; Sp. p. 5701; Gaz. vol. 178; p. 993.
Covert Manufacturing Company. (See Baxter, John B., assignor.)
Covey, Frank R., and C. F. Hoag, Riverside, Cal. Seat attachment for motor-cycles. No. 1,027,992; May 28; Sp. p. 6367; Gaz. vol. 178; p. 1094.
Covey, Nathan S., assignor to Corry Castor Company, Corry, Pa. Centering and retaining member for casters. No. 1,029,795; June 18; Sp. p. 3749; Gaz. vol. 179; p. 660.
Covington, William F., Headland, Ala. Seed-planter. No. 1,043,673; Nov. 5; Gaz. vol. 184; p. 223.
Cowart, Stephen A., assignor of one-half to J. P. Kimmel, Midlothian, Tex. Harrow attachment for cultivators. No. 1,014,124; Jan. 9; Sp. p. 2314; Gaz. vol. 174; p. 386.
Cowdery, Arthur B., Boston, Mass., assignor to Barrett Manufacturing Company, New York, N. Y. Heater for gravel, &c. No. 1,025,687; May 7; Sp. p. 1288; Gaz. vol. 178; p. 200.
Cowdrey, Charles F., *et al.* (See Farnum, William C., assignor.)
Cowdrey, Henry E., *et al.* (See Farnum, William C., assignor.)
Cowell, Eli J., Irwin, Pa. Milk-can seal. No. 1,033,785; July 30; Gaz. vol. 180; p. 1148.
Cowen, Max, New York, N. Y. Riding-habit. No. 1,022,405; Apr. 9; Sp. p. 1362; Gaz. vol. 177; p. 250.

Alphabetical list of patentees—Continued.

Cowey, Leonard E., Kew Gardens, England. Road-vehicle suspension arrangement. No. 1,020,385; Mar. 12; Sp. p. 2907; Gaz. vol. 176; p. 492.
Cowey, Leonard E., Kew Gardens, England. Road-vehicle suspension arrangement. No. 1,037,730; Sept. 3; Gaz. vol. 182; p. 185.
Cowgill, Guy H., Hermitage, Tenn. Reel. No. 1,013,588; Jan. 2; Sp. p. 1068; Gaz. vol. 174; p. 173.
Cowie, John A., and J. C. Marshall, Summerset, Iowa. Car-coupling. No. 1,023,818; Apr. 23; Sp. p. 4354; Gaz. vol. 177; p. 787.
Cowles, Alfred H., Sewaren, N. J. Clay-sieving machine. No. 1,040,639; Oct. 8; Gaz. vol. 183; p. 362.
Cowles, Alfred H., Sewaren, N. J., assignor to The Electric Smelting and Aluminum Company. Protecting tunnel-furnaces from injurious gases. No. 1,040,892; Oct. 8; Gaz. vol. 183; p. 444.
Cowles, Alfred H., Sewaren, N. J., assignor to The Electric Smelting & Aluminum Co. Charge mixture for forming alkali-silico-aluminate and hydrochloric acid. No. 1,040,893; Oct. 8; Gaz. vol. 183; p. 444.
Cowles, Alfred H., assignor to The Electric Smelting and Aluminum Company, Sewaren, N. J. Forming a charge mixture for producing hydrochloric acid and alkali-silico-aluminate. No. 1,040,894; Oct. 8; Gaz. vol. 183; p. 444.
Cowles, Alfred H., assignor to The Electric Smelting & Aluminum Company, Sewaren, N. J. Channel-furnace. No. 1,040,895; Oct. 8; Gaz. vol. 183; p. 444.
Cowles, Alfred H., assignor to The Electric Smelting and Aluminum Company, Sewaren, N. J. Producing hydrochloric acid and alkali-silico-aluminates. No. 1,040,977; Oct. 8; Gaz. vol. 183; p. 474.
Cowles, Alfred H., assignor to The Electric Smelting and Aluminum Company, Sewaren, N. J. Tunnel-furnace. No. 1,040,978; Oct. 8; Gaz. vol. 183; p. 474.
Cowles, Alfred H., assignor to The Electric Smelting and Aluminum Company, Lockport, N. Y. Manufacturing sodic-silico aluminate and hydrochloric acid. No. 1,041,598; Oct. 15; Gaz. vol. 183; p. 713.
Cowles, Alfred H., Sewaren, N. J., and A. Kayser, deceased, (G. Kayser, administratrix,) assignors to Electric Smelting and Aluminum Company, Lockport, N. Y. Manufacturing sodic-silico aluminate and hydrochloric acid. No. 1,041,599; Oct. 15; Gaz. vol. 183; p. 713.
Cowles, Arthur B., Rochester, N. Y. Delivery-receptacle. No. 1,020,539; Mar. 19; Sp. p. 3248; Gaz. vol. 176; p. 581.
Cowles, John T., Chicago, Ill. Pocket guard and alarm. No. 1,016,672; Feb. 6; Sp. p. 1007; Gaz. vol. 175; p. 152.
Cowley, James T., Boston, Mass., assignor to Lamson Consolidated Store Service Company, Newark, N. J. Terminal for pneumatic-despatch-tube apparatus. No. 1,031,774; July 9; Gaz. vol. 180; p. 364.
Cowling, James, Galena, Ill. Thermometer. No. 1,038,530; Sept. 17; Gaz. vol. 182; p. 523.
Cowlyn, John A. (See Morris and Cowlyn.)
Cowper-Coles, Sherard O., Westminster, London, England. Scaling and annealing metals. No. 1,047,616; Dec. 17; Gaz. vol. 185; p. 704.
Cowper, John B., Bayonne, N. J. Oil-burner. No. 1,029,048; June 11; Sp. p. 2130; Gaz. vol. 179; p. 367.
Cox, Albert F., Chicago, Ill. Hair-straightening device. No. 1,014,952; Jan. 16; Sp. p. 4165; Gaz. vol. 174; p. 700.
Cox, Alfred, Lawrenceburg, Tenn. Perch. No. 1,044,994; Nov. 19; Gaz. vol. 184; p. 740.
Cox, Bishop A., Fayetteville, Ark. Foot-gear. No. 1,040,896; Oct. 8; Gaz. vol. 183; p. 445.
Cox, Bradford, Plainview, Tex. Traction-engine. No. 1,042,405; Oct. 29; Gaz. vol. 183; p. 1049.
Cox and Brother, George S. (See Cox, George S., assignor.)
Cox, Clarence E., Fairfax, Mo. Metallic tire. No. 1,014,814; Jan. 16; Sp. p. 3836; Gaz. vol. 174; p. 652.
Cox, Edith I., London, Ontario, Canada. Music-leaf turner. No. 1,041,600; Oct. 15; Gaz. vol. 183; p. 713.
Cox, Edward, Oroville, Wash. Current-motor. No. 1,027,993; May 28; Sp. p. 6368; Gaz. vol. 178; p. 1094.
Cox, Edward M., *et al.* (See Lynch, Philip J., assignor.)
Cox, Edwin G., Walla Walla, Wash. Sanding-machine. No. 1,022,827; Apr. 9; Sp. p. 2303; Gaz. vol. 177; p. 394.
Cox, Ezekiel B., Newtown, Pa., assignor to E. B. Cox Manufacturing Co., Hopewell, N. J. Apparatus for treating grain. No. 1,024,832; Apr. 30; Sp. p. 6659; Gaz. vol. 177; p. 1172.
Cox, George E. (See Morehead, Cox, and Marshall.)
Cox, George S., Edge Hill, assignor to G. S. Cox and Brother, Philadelphia, Pa. Haircloth-loom. No. 1,026,430; May 14; Sp. p. 2957; Gaz. vol. 178; p. 490.
Cox, George W., Leicester, England. Screw-stopper for cans, drums, jars, bottles, and other vessels. No. 1,031,775; July 9; Gaz. vol. 180; p. 364.
Cox, Henry G., Detroit, Mich. Magneto-battery switch. No. 1,033,786; July 30; Gaz. vol. 180; p. 1148.
Cox, Howard R., and W. Schmidt, New York, N. Y. Safety gas-valve. No. 1,037,208; Sept. 3; Gaz. vol. 182; p. 10.
Cox, James F., assignor of one-half to M. T. Cronin, Bayonne, N. J. Pipe-bending machine. No. 1,013,839; Jan. 2; Sp. p. 1629; Gaz. vol. 174; p. 261.
Cox, James F., assignor of one-half to M. T. Cronin, Bayonne, N. J. Pipe or tube bending machine. No. 1,021,449; Mar. 26; Sp. p. 5210; Gaz. vol. 176; p. 942.
Cox, James F., assignor of one-half to M. T. Cronin, Bayonne, N. J. Pipe or tube bending machine. No. 1,021,450; Mar. 26; Sp. p. 5211; Gaz. vol. 176; p. 942.
Cox, James F., assignor of one-half to M. T. Cronin, Bayonne, N. J. Bending-machine. No. 1,021,662; Mar. 26; Sp. p. 5625; Gaz. vol. 176; p. 1012.
Cox, James R., assignor to M. E. Piper, Chicago, Ill. Punch-press. No. 1,044,861; Nov. 19; Gaz. vol. 184; p. 693.
Cox, James W., Wilmette, assignor to Pacific Flush Tank Company, Chicago, Ill. Alternating siphon. No. 1,040,640; Oct. 8; Gaz. vol. 183; p. 363.
Cox, John A., and J. H. Kidwell, Parkersburg, W. Va.; said Cox assignor to said Kidwell. Telegraph-transmitter. No. 1,019,883; Mar. 12; Sp. p. 1872; Gaz. vol. 176; p. 327.
Cox, Marvin E. (See Deal and Cox.)
Cox Multi-Mailer Company. (See Cox, Sandford C., assignor.)
Cox, Oscar M., Plainview, Tex. Disk plow. No. 1,015,544; Jan. 23; Sp. p. 5408; Gaz. vol. 174; p. 927.
Cox, Oscar M., Plainview, Tex. Traction-engine. No. 1,028,190; June 4; Sp. p. 296; Gaz. vol. 179; p. 38.
Cox, Paul F., assignor to The Goss Printing Press Company, Chicago, Ill. Printing-press. No. 1,027,526; May 28; Sp. p. 5349; Gaz. vol. 178; p. 937.
Cox, Pierre M., Meridian, Tex. Spreader for telephone-receiver casings. No. 1,046,984; Dec. 10; Gaz. vol. 185; p. 450.
Cox, Samuel C., Washington, D. C. Collecting-vehicle. No. 1,045,109; Nov. 19; Gaz. vol. 184; p. 779.
Cox, Sandford C., Chicago, Ill., assignor, by mesne assignments, to Cox Multi-Mailer Company, Augusta, Me. Feeding mechanism for addressing and other machines. No. 1,033,232; July 23; Gaz. vol. 180; p. 942.
Cox, Sandford C., Chicago, Ill., assignor to Cox Multi-Mailer Company, Augusta, Me., and New York, N. Y. Folding and wrapping machine. No. 1,045,124; Nov. 26; Gaz. vol. 184; p. 813.
Cox, Sandford C., Brookline, Mass., assignor to Cox Multi-Mailer Company, Augusta, Me. Automatic bundling-machine. No. 1,039,366; Sept. 24; Gaz. vol. 182; p. 828.
Cox, Sandford C., Edison Park, Ill., assignor, by mesne assignments, to Standard Assembler Company, Augusta, Me. Signature-stuffing machine. No. 1,043,401; Nov. 5; Gaz. vol. 184; p. 127.
Cox, Thomas, Jr., *et al.* (See McKee, Albert K., assignor.)
Cox, Thomas F., Elizabeth, N. J. Tug-boat. No. 1,024,119; Apr. 23; Sp. p. 5057; Gaz. vol. 177; p. 891.
Cox, Thomas H. (See Whitaker and Cox.)
Cox, Warren R., Cleveland, Ohio. Automatic lock-switch. No. 1,015,300; Jan. 23; Sp. p. 4877; Gaz. vol. 174; p. 845.
Cox, Zenas N., Denver, Colo. Mine-door. No. 1,034,693; Aug. 6; Gaz. vol. 181; p. 97.
Coy, Ervin S., Tacoma, Wash. Eyeglass-case. No. 1,017,514; Feb. 13; Sp. p. 2836; Gaz. vol. 175; p. 478.
Coy, Harry G., Waterloo, Nebr. Seed-germination-testing device. No. 1,045,816; Dec. 3; Gaz. vol. 185; p. 7.
Coy, Reuben D., Glencoe, Ill. Printing-press. No. 1,022,406; Apr. 9; Sp. p. 1363; Gaz. vol. 177; p. 250.
Coyle, James, Tremont, Pa. Nut-lock. No. 1,040,516; Oct. 8; Gaz. vol. 183; p. 315.
Coyle, James R., Huntsville, Ala. Wrench. No. 1,029,171; June 11; Sp. p. 2389; Gaz. vol. 179; p. 407.
Coyle, James W., Carterville, assignor of one-half to W. A. Cristy, Joplin, Mo. Drill-sharpening machine. No. 1,016,551; Feb. 6; Sp. p. 749; Gaz. vol. 175; p. 110.
Coyle, James W., Carterville, and D. E. Lynch, Webb City, assignors of one-half to W. A. Cristy, Joplin, Mo. Interlocking anvil and swage-block. No. 1,037,209; Sept. 3; Gaz. vol. 182; p. 11.
Coyle, Mark F., Corry, Pa Vacuum-creating apparatus. No. 1,040,641; Oct. 8; Gaz. vol. 183; p. 363.
Coyle, Thomas M., St. Louis, Mo. Combination drying and moistening machine. No. 1,015,786; Jan. 30; Sp. p. 5934; Gaz. vol. 174; p. 1038.
Coyle, William, Sr. (See Dorman, Bert E., assignor.)
Coyne, Frederick E., and J. W. Eskholme, Chicago, Ill., assignors to Sebree Mail Exchanging Device Co., Carrollton, Ky. Railway mail catching and delivering apparatus. No. 1,016,478; Feb. 6; Sp. p. 550; Gaz. vol. 175; p. 85.
Coyne, Frederick E., S. G. Taylor, Jr., and J. W. Eskholme, Chicago, Ill., assignors to Sebree Mail Exchanging Device Co., Carrollton, Ky. Railway mail catching and delivering apparatus. No. 1,016,479; Feb. 6; Sp. p. 554; Gaz. vol. 175; p. 85.
Cozins, William W., Cochranton, Pa. Acetylene-gas generator. No. 1,038,856; Sept. 17; Gaz. vol. 182; p. 638.
Cozzens, Davenport, *et al.* (See Archambeau, Charles L., assignor.)

Alphabetical list of patentees—Continued.

Crabb, Charles L., Millington, N. J., assignor to Topping Brothers, New York, N. Y. Machine for transparentizing sheets of paper or other material. No. 1,037,873; Sept. 10; Gaz. vol. 182; p. 266.
Crabb, Charles L., Peapack, N. J., assignor to Topping Brothers, New York, N. Y. Lifting-jack. No. 1,037,874; Sept. 10; Gaz. vol. 182; p. 266.
Crabbe, Elmer W., assignor of one-half to E. W. Harral, Bridgeport, Conn. Clutch. No. 1,043,805; Nov. 12; Gaz. vol. 184; p. 298.
Crabbs, George D., Cincinnati, assignor to The Philip Carey Manufacturing Company, Lockland, Ohio. Acid, alkali, and water resisting covering. No. 1,034,981; Aug. 6; Gaz. vol. 181; p. 194.
Crabtree, Lawrence L., and T. C. Ripley, Sulphur Springs, Tex. Cross-arm. No. 1,047,176; Dec. 17; Gaz. vol. 185; p. 545.
Cracraft, Leich Electric Company. (See Leich, Oscar M., assignor.)
Cracroft, James R., Hartford, Kans. Harness-tug fastener. No. 1,038,091; Sept. 10; Gaz. vol. 182; p. 339.
Craft, Edward B., Hackensack, N. J., assignor to Western Electric Company, New York, N. Y. Harmonic ringer. No. 1,014,125; Jan. 9; Sp. p. 2316; Gaz. vol. 174; p. 386.
Craft, Edward B., and A. F. Dixon, assignors to Western Electric Company, Chicago, Ill. Coin-collector. No. 1,041,030; Oct. 15; Gaz. vol. 183; p. 524.
Craft, Elisha, Wellsburg, W. Va. Governor-pulley clutch. No. 1,019,305; Mar. 5; Sp. p. 673; Gaz. vol. 176; p. 105.
Craft, Harry H., Cedar Rapids, Iowa. Sanitary cuspidor. No. 1,044,628; Nov. 19; Gaz. vol. 184; p. 612.
Craft, John W., Yonkers, N. Y. Portable hat-rack. No. 1,027,596; May 28; Sp. p. 5497; Gaz. vol. 178; p. 961.
Crafton, Charles H., Staunton, Va. Electromagnetic time-recorder. No. 1,019,763; Mar. 12; Sp. p. 1643; Gaz. vol. 176; p. 286.
Crage, Frederick W., Port Elizabeth, Cape Colony. Gearing. No. 1,022,181; Apr. 2; Sp. p. 910; Gaz. vol. 177; p. 145.
Craggs, Ross V., Baltimore, Md., assignor, by mesne assignments, to The National Exchange Bank of Baltimore. Cap-crimping die. No. 1,021,825; Apr. 2; Sp. p. 166; Gaz. vol. 177; p. 27.
Craggs, Ross V., Baltimore, Md., assignor, by mesne assignments, to The National Exchange Bank of Baltimore. Bottle-capping machine. No. 1,030,164; June 18; Sp. p. 4543; Gaz. vol. 179; p. 785.
Craig, A. L., *et al.* (See Barrickman and Holt, assignors.)
Craig, Alexander, Coventry, England. Grain-mill. No. 1,033,878; July 30; Gaz. vol. 180; p. 1182.
Craig, Allen. (See Double and Craig.)
Craig, Andrew B., Tarkio, Mo. Cooling device for pneumatic tires. No. 1,038,092; Sept. 10; Gaz. vol. 182; p. 340.
Craig, Charley J., Lathrop, Mo. Resilient wheel. No. 1,041,244; Oct. 15; Gaz. vol. 183; p. 597.
Craig, Charley J., Lathrop, Mo. Silo-door. No. 1,047,755; Dec. 17; Gaz. vol. 185; p. 753.
Craig, David J., Honolulu, Hawaii. Dinner-pail. No. 1,043,674; Nov. 5; Gaz. vol. 184; p. 223.
Craig, Edward, Albion, Ill. Side-board lock. No. 1,038,531; Sept. 17; Gaz. vol. 182; p. 524.
Craig, Edward G., Florence, Italy. Stage-scenery. No. 1,022,020; Apr. 2; Sp. p. 576; Gaz. vol. 177; p. 90.
Craig Engineering Company. (See Craig, William S., assignor.)
Craig, Harry L., Wilmington, Del. Piling-box. No. 1,041,031; Oct. 15; Gaz. vol. 183; p. 525.
Craig, James, New Rochelle, N. Y. Lubricating means for wrist-pins. No. 1,020,638; Mar. 19; Sp. p. 3476; Gaz. vol. 176; p. 614.
Craig, Lee D., San Francisco, Cal., assignor to National Trenching Machine Company, Washington, D. C. Road-cutter and the like. No. 1,037,875; Sept. 10; Gaz. vol. 182; p. 267.
Craig, Proctor G., *et al.* (See Roy, Henry F., assignor.)
Craig, Robert B., Dayton, Ohio. Machine-tool holder. No. 1,029,172; June 11; Sp. p. 2390; Gaz. vol. 179; p. 407.
Craig, Robert B., and A. Coffman, Dayton, Ohio, assignors to The Automatic Vending Machines Company, Kansas City, Mo. Printing mechanism for vending-machines. No. 1,035,084; Aug. 6; Gaz. vol. 181; p. 227.
Craig, Robert M., assignor of one-half to F. B. Donohue, Paterson, N. J. Clothes-line support. No. 1,045,104; Nov. 19; Gaz. vol. 184; p. 777.
Craig, Robert M., assignor of one-half to S. Mulholland, Paterson, N. J. Trolley-pole. No. 1,048,661; Dec. 31; Gaz. vol. 185; p. 1127.
Craig, William N., Moline, Ill. Miter-box. No. 1,032,046; July 9; Gaz. vol. 180; p. 456.
Craig, William P., *et al.* (See Roy, Henry F., assignor.)
Craig, William S., St. Marys, Ohio. Creeping and anti-skidding device. No. 1,015,545; Jan. 23; Sp. p. 5414; Gaz. vol. 174; p. 927.
Craig, William S., assignor to Craig Engineering Company, Monroe, Mich. Gearing for glue-spreaders. No. 1,025,376; May 7; Sp. p. 604; Gaz. vol. 178; p. 94.
Craig, William S., assignor to Craig Engineering Company, Monroe, Mich. Veneer-press. No. 1,025,377; May 7; Sp. p. 605; Gaz. vol. 178; p. 94.
Craig, William W., Chatham, New Brunswick, Canada. Calculating instrument. No. 1,048,044; Dec. 24; Gaz. vol. 185; p. 878.
Craigie, William, assignor of one-sixth to W. Marlton and one-sixth to W. Wallace, Goderich, Ontario, Canada. Hatch-fastener. No. 1,019,226; Mar. 5; Sp. p. 485; Gaz. vol. 176; p. 77.
Craigmiles, Walter E. (See Walker, Tom H., assignor.)
Crain, Rudolf E., Oberursel, assignor to Maschinenfabrik Moenus A. G., Frankfort-on-the-Main, Germany. Pulling-over machine for use in the manufacture of boots and shoes. No. 1,016,480; Feb. 6; Sp. p. 557; Gaz. vol. 175; p. 86.
Crain, Rudolf E., Oberursel-on-the-Taunus, and H. L. Heckmann, Offenbach-on-the-Main, assignors to Moenus Machine Company, Frankfort-on-the-Main, Germany. Rotatable tool for beating uppers on lasts. No. 1,039,033; Sept. 17; Gaz. vol. 182; p. 696.
Cram, James E. (See Nye and Cram.)
Cramer, Anthony F., Detroit, Mich. Can guide and support for ice-tanks. No. 1,037,731; Sept. 3; Gaz. vol. 182; p. 186.
Cramer, Catherine M. (See Cramer, William G., assignor.)
Cramer, Fred S., Junction City, Kans. Vacuum-cleaner. No. 1,045,950; Dec. 3; Gaz. vol. 185; p. 53.
Cramer, Frederick B., Bascom, Ohio. Baling-press. No. 1,030,648; June 25; Sp. p. 5833; Gaz. vol. 179; p. 999.
Cramer, James H. (See McHill, William R., assignor.)
Cramer, Joseph B. (See Kane, John H., assignor.)
Cramer, Robert, assignor to F. J. Matchette, Milwaukee, Wis. Auxiliary controller. No. 1,022,407; Apr. 9; Sp. p. 1366; Gaz. vol. 177; p. 250.
Cramer, Stuart W. (See Hodge, William B., assignor.)
Cramer, Stuart W., and W. B. Hodge, Charlotte, N. C.; said Hodge assignor to said Cramer. Making spray-nozzles. No. 1,028,812; June 4; Sp. p. 1595; Gaz. vol. 179; p. 249.
Cramer, Stuart W., and W. B. Hodge, Charlotte, N. C.; said Hodge assignor to said Cramer. Spray-nozzle for humidifiers. No. 1,028,813; June 4; Sp. p. 1596; Gaz. vol. 179; p. 250.
Cramer, William G., assignor to C. M. Cramer, Buffalo, N. Y. Floor connection for water-closets. No. 1,031,531; July 2; Gaz. vol. 180; p. 237.
Crammond, William A., New York, N. Y. Steam-pipe for gas-holders. No. 1,018,033; Feb. 20; Sp. p. 4000; Gaz. vol. 175; p. 692.
Crandal, Chauncey D., deceased, St. Louis, Mo.; N. A. Crandal, administratrix. Clamp. No. 1,020,129; Mar. 12; Sp. p. 2396; Gaz. vol. 176; p. 409.
Crandal, Chauncey D., deceased, St. Louis, Mo.; N. A. Crandal, administratrix. Glue-spreading machine. No. 1,036,802; Aug. 27; Gaz. vol. 181; p. 917.
Crandal, Nellie A., administratrix. (See Crandal, Chauncey D.)
Crandall, Catherine H. (See Crandall, Garrett J., assignor.)
Crandall, Cornelia A. (See De Groff and Crandall.)
Crandall, Garrett J., assignor to C. H. Crandall, Los Angeles, Cal. Insect-trap. No. 1,015,141; Jan. 16; Sp. p. 4538; Gaz. vol. 174; p. 765.
Crandall, Max E., Lawton, Okla. Automobile spring-wheel. No. 1,015,006; Jan. 16; Sp. p. 4281; Gaz. vol. 174; p. 719.
Crandall, Melvin E., Northfield, Minn. Concrete-mixer. No. 1,023,724; Apr. 16; Sp. p. 4145; Gaz. vol. 177; p. 728.
Crandell, James D. (See Beal and Crandell.)
Crane & Breed Manufacturing Company, The. (See Davoran, Michael F., assignor.)
Crane & Breed Manufacturing Company, The. (See Warther, Joseph G., assignor.)
Crane Company. (See Crane, Richard T., assignor.)
Crane, Ernest M., assignor to Pelton & Crane, Detroit, Mich. Switchboard and rheostat. No. 1,036,077; Aug. 20; Gaz. vol. 181; p. 635.
Crane, Frank G., West Collingswood, N. J. Paper towel. No. 1,033,992; July 30; Gaz. vol. 180; p. 1223.
Crane, Frank H., Cleveland, Ohio. Bed attachment. No. 1,026,149; May 14; Sp. p. 2335; Gaz. vol. 178; p. 395.
Crane, George W. (See Glaser and Olsen, assignors.)
Crane, Guy G., Rockford, Ill. Fluid-clutch. No. 1,030,463; June 25; Sp. p. 5236; Gaz. vol. 179; p. 932.
Crane, Isaiah C., Indianapolis, Ind. Means for catching and entrapping minnows. No. 1,036,574; Aug. 27; Gaz. vol. 181; p. 842.
Crane, John S., Laconia, assignor to Crane Manufacturing Company, Lakeport, N. H. Knitting-machine. No. 1,027,034; May 21; Sp. p. 4321; Gaz. vol. 178; p. 734.
Crane Manufacturing Company. (See Crane, John S., assignor.)
Crane, Martin S., Hoboken, N. J. Device for securing together glass plates. No. 1,043,904; Nov. 12; Gaz. vol. 184; p. 332.
Crane, Martin S., Hoboken, N. J. Device for securing together glass plates for store-fronts, &c. No. 1,045,526; Nov. 26; Gaz. vol. 184; p. 956.

Alphabetical list of patentees—Continued.

Crane, Newton, Boston, Mass., assignor, by mesne assignments, to Self-Sharpening Pencil Company, Providence, R. I. Self-sharpening pencil. No. 1,038,857; Sept. 17; Gaz. vol. 182; p. 638.
Crane, Raymond E., Cameron, W. Va. Sanitary fixture. No. 1,039,903; Oct. 1; Gaz. vol. 183; p. 79.
Crane, Richard T., assignor to Crane Company, Chicago, Ill. Valve. No. 1,034,882; Aug. 6; Gaz. vol. 181; p. 162.
Crane, Samuel W., La Fayette, Ind. Account-register. No. 1,031,325; July 2; Gaz. vol. 180; p. 168.
Crane, Sylvanus B., Kansas City, Mo. Window-sash holder. No. 1,044,144; Nov. 12; Gaz. vol. 184; p. 414.
Cranford, Frederick L. (See Meem, James C., assignor.)
Crank, Orlando, Salt Lake City, Utah. Mortising-auger. No. 1,038,727; Sept. 17; Gaz. vol. 182; p. 592.
Crankshaw, Alfred H., Union township, Bergen county, N. J., assignor to H. Bridgman Smith Company, Brooklyn, N. Y. Box-cover. No. 1,033,550; July 23; Gaz. vol. 180; p. 1047.
Crary, Alexander P., New York, N. Y. Mold-form for concrete-wall construction. No. 1,042,648; Oct. 29; Gaz. vol. 183; p. 1136.
Crary, Alexander P., New York, N. Y. Mold-form for concrete wall construction. No. 1,044,862; Nov. 19; Gaz. vol. 184; p. 694.
Crary, Calvin D., Minneapolis, Minn. Metal-drawing forge. No. 1,040,282; Oct. 8; Gaz. vol. 183; p. 235.
Craswell, Bradwell. (See Smith and Craswell.)
Crauu, James H., and S. Baldwin, Marion, Ind. Amusement device. No. 1,014,571; Jan. 9; Sp. p. 3230; Gaz. vol. 174; p. 538.
Craven Engineering Company. (See Craven, James F., assignor.)
Craven, Fremont B., Golden City, Mo. Plow. No. 1,020,888; Mar. 19; Sp. p. 4004; Gaz. vol. 176; p. 698.
Craven, James F., Pittsburgh, Pa. Receptacle for containing and discharging semisolid and pasty substances. No. 1,021,451; Mar. 26; Sp. p. 5213; Gaz. vol. 176; p. 942.
Craven, James F., Pittsburgh, Pa. Receptacle for containing and discharging semisolid and pasty substances. No. 1,021,452; Mar. 26; Sp. p. 5215; Gaz. vol. 176; p. 943.
Craven, James F., Pittsburgh, Pa. Measuring and canfilling machine. No. 1,036,965; Aug. 27; Gaz. vol. 181; p. 971.
Craven, James F., assignor to Craven Engineering Company, Pittsburgh, Pa. Lubricating bearings. No. 1,025,510; May 7; Sp. p. 897; Gaz. vol. 178; p. 140.
Craven, James F., assignor to Craven Engineering Company, Pittsburgh, Pa. Receptacle for containing and discharging semisolid and pasty substances. No. 1,025,511; May 7; Sp. p. 899; Gaz. vol. 178; p. 140.
Craven, James F., assignor to Craven Engineering Company, Pittsburgh, Pa. Receptacle for containing and discharging semisolid and pasty substances. No. 1,025,512; May 7; Sp. p. 901; Gaz. vol. 178; p. 141.
Craven, James F., assignor to Craven Engineering Company, Pittsburgh, Pa. Receptacle for containing and discharging solid and semisolid substances. No. 1,025,513; May 7; Sp. p. 902; Gaz. vol. 178; p. 141.
Craven, James F., assignor to Craven Engineering Company, Pittsburgh, Pa. Shredder for paraffin-wax and the like. No. 1,036,966; Aug. 27; Gaz. vol. 181; p. 971.
Craven, James F., assignor to Craven Engineering Company, Pittsburgh, Pa. Closure for grease-guns. No. 1,036,967; Aug. 27; Gaz. vol. 181; p. 971.
Craven, James F., assignor to Craven Engineering Company, Pittsburgh, Pa. Paraffin container and shaver. No. 1,036,968; Aug. 27; Gaz. vol. 181; p. 972.
Craven, James F., assignor to Craven Engineering Company, Pittsburgh, Pa. Receptacle for containing and discharging semisolid and pasty substances. No. 1,036,969; Aug. 27; Gaz. vol. 181; p. 972.
Craven, James F., assignor to Craven Engineering Company, Pittsburgh, Pa. Receptacle for containing and discharging semisolid and pasty substances. No. 1,036,970; Aug. 27; Gaz. vol. 181; p. 973.
Craven, James F., assignor to Craven Engineering Company, Pittsburgh, Pa. Receptacle for containing and discharging semisolid and pasty substances. No. 1,036,971; Aug. 27; Gaz. vol. 181; p. 973.
Cravens, George W., Chicago, Ill., assignor to The Electric Service Supplies Company, Philadelphia, Pa. Trolley-wire-supporting device. No. 1,019,764; Mar. 12; Sp. p. 1645; Gaz. vol. 176; p. 287.
Crawford, Andrew, assignor to T. Smith, Paterson, N. J. Tension device. No. 1,021,919; Apr. 2; Sp. p. 350; Gaz. vol. 177; p. 58.
Crawford, Carl H. (See Baltzer, August R., assignor.)
Crawford, Carl H., Washington, D. C. Envelop-opener. No. 1,027,994; May 28; Sp. p. 6370; Gaz. vol. 178; p. 1094.
Crawford, Clay, assignor to O. S. Brigham, Toledo, Ohio. Casting molten metal in molds. No. 1,040,517; Oct. 8; Gaz. vol. 183; p. 315.
Crawford, David F., Pittsburgh, Pa. Transfer mechanism. No. 1,035,162; Aug. 13; Gaz. vol. 181; p. 284.
Crawford, Edward H., New Orleans, La. Window-screen. No. 1,029,427; June 11; Sp. p. 2963; Gaz. vol. 179; p. 495.
Crawford, Edward M., Corozal, Canal Zone. Type-writing machine. No. 1,017,959; Feb. 20; Sp. p. 3844; Gaz. vol. 175; p. 666.
Crawford, Frank. (See Bowdle, Isaiah, assignor.)
Crawford, Frank, assignor to Conduit Threading Device Co., Pasadena, Cal. Conduit fish-wire machine. No. 1,038,093; Sept. 10; Gaz. vol. 182; p. 340.
Crawford, Franklin, and W. Whiteley, assignors to North & Judd Manufacturing Company, New Britain, Conn. Hinge for coach and automobile bodies. No. 1,013,535; Jan. 2; Sp. p. 975; Gaz. vol. 174; p. 156.
Crawford, George, New York, N. Y., and T. Veitch, Dumont, N. J.; said Veitch assignor to said Crawford. Spring-wheel. No. 1,027,105; May 21; Sp. p. 4501; Gaz. vol. 178; p. 758.
Crawford, George C., Bartlesville, Okla. Glass-blowing machine. No. 1,039,700; Oct. 1; Gaz. vol. 183; p. 9.
Crawford, George N., Chicago, Ill., assignor to Lidgerwood Manufacturing Company, New York, N. Y. Turn-table. No. 1,031,425; July 2; Gaz. vol. 180; p. 202.
Crawford, Harry M., Lima, Ohio. Electric water-heating syringe. No. 1,026,564; May 14; Sp. p. 3227; Gaz. vol. 178; p. 533.
Crawford, Harvey F., assignor of one-half to G. H. Snow, Brockton, Mass. Innersole for welted shoes. No. 1,029,278; June 11; Sp. p. 2615; Gaz. vol. 179; p. 444.
Crawford, Henry D., and W. B. Knight, assignors to R. E. Funsten Dried Fruit & Nut Company, St. Louis, Mo. Nut-cracking machine. No. 1,037,598; Sept. 3; Gaz. vol. 182; p. 141.
Crawford, James A., York, Nebr. Nut-lock. No. 1,035,691; Aug. 13; Gaz. vol. 181; p. 466.
Crawford, Thomas, assignor of twenty-five one-hundredths to J. M. James and twenty-four one-hundredths to H. M. Meason, Philadelphia, Pa. Smoke-consumer. No. 1,048,297; Dec. 24; Gaz. vol. 185; p. 962.
Crawford, William, Erinview, Manitoba, Canada. Spark-arrester. No. 1,044,501; Nov. 19; Gaz. vol. 184; p. 567.
Crawford, William R., assignor of one-half to M. E. Benton, Cooper, Tex. Boltless rail-joint. No. 1,033,879; July 30; Gaz. vol. 180; p. 1182.
Crawford, William R., assignor of one-half to M. E. Benton, Cooper, Tex. Boltless rail-joint. No. 1,033,880; July 30; Gaz. vol. 180; p. 1183.
Craycraft, George W., Anderson, Ind. Collapsible crate. No. 1,034,982; Aug. 6; Gaz. vol. 181; p. 194.
Creamery Package Manufacturing Company. (See Macnish, Frederick J., assignor.)
Creamery Package Manufacturing Company. (See Penn, William E., assignor.)
Creasey, Samuel E., Sanford, Me. Mayonnaise-oil dropper. No. 1,016,481; Feb. 6; Sp. p. 558; Gaz. vol. 175; p. 86.
Crecelius, Louis J., assignor to C. A. Thompson, St. Louis, Mo. Machine for grinding balls or spheres. No. 1,020,803; Mar. 19; Sp. p. 3825; Gaz. vol. 176; p. 670.
Crecelius, Louis J., assignor to C. A. Thompson, St. Louis, Mo. Machine for grinding bottle-stoppers. No. 1,023,131; Apr. 16; Sp. p. 2978; Gaz. vol. 177; p. 536.
Crecelius, Theodore E. (See Feldmann and Crecelius.)
Creech, Frederick W., Fort William, Ontario, Canada. Washing-tank for prints and negatives. No. 1,035,540; Aug. 13; Gaz. vol. 181; p. 416.
Creede, Tom. (See Gibson and Creede.)
Creedon, Jeremiah, North Philadelphia, Pa. Electrical device. No. 1,046,985; Dec. 10; Gaz. vol. 185; p. 450.
Creelman, Ernest E. (See Robinson, Charles J., assignor.)
Creely, William, Bay City, assignor of one-fourth to F. Lennox, Alpena, Mich. Air-motor. No. 1,044,995; Nov. 19; Gaz. vol. 184; p. 740.
Creger, Alvin L., Des Moines, Iowa. Unloading attachment for wagons. No. 1,019,952; Mar. 12; Sp. p. 2022; Gaz. vol. 176; p. 349.
Crego, Zachary T., Columbus, Ohio. Door-hanger. No. 1,029,913; June 18; Sp. p. 4036; Gaz. vol. 179; p. 701.
Crehore, Albert C., Yonkers, N. Y., and G. O. Squier, Washington, D. C. Method and apparatus for detecting and observing forces. No. 1,044,502; Nov. 19; Gaz. vol. 184; p. 567.
Creighton, Elmer E. F., Schenectady, N. Y., assignor to General Electric Company. Regulating resistance for electrolytic condensers. No. 1,029,344; June 11; Sp. p. 2777; Gaz. vol. 179; p. 468.
Creighton, Elmer E. F., Schenectady, N. Y., assignor to General Electric Company. Lightning-arrester. No. 1,034,883; Aug. 6; Gaz. vol. 181; p. 163.
Creighton, James S., Smithflat, Cal. Wheel-dishing device. No. 1,029,279; June 11; Sp. p. 2618; Gaz. vol. 179; p. 444.
Creighton, Nelson B., and S. Block, New York, N. Y. Valve. No. 1,028,681; June 4; Sp. p. 1323; Gaz. vol. 179; p. 204.
Creighton, Nelson B., and S. Block, New York, N. Y. Valve. No. 1,028,682; June 4; Sp. p. 1326; Gaz. vol. 179; p. 205.
Creitz, Josef P. L., Monongahela, Pa. Safety appliance for inclined railways. No. 1,033,674; July 23; Gaz. vol. 180; p. 1086.

Alphabetical list of patentees—Continued.

Cremean, William F., Logan, Ohio. Grinding-machine. No. 1,026,022; May 14; Sp. p. 2021; Gaz. vol. 178; p. 349.
Cremer, George F., and J. J. Lantry, Milwaukee, Wis. Bell. No. 1,035,321; Aug. 13; Gaz. vol. 181; p. 341.
Crenshaw, Albert I., Chicago, Ill. Flying-machine. No. 1,031,840; July 9; Gaz. vol. 180; p. 387.
Crenshaw, Walter W., Rockhill, S. C. Automatic stop-motion to attach to a cotton-card. No. 1,041,032; Oct. 15; Gaz. vol. 183; p. 525.
Creps, Archibald B. (See Zock, August E., assignor.)
Crescent Machine Company, The. (See Harrold, Elmer, assignor.)
Crescent Door Holder Company. (See Denitz and Jacobs, assignors.)
Crescent Pump Works. (See Pittman, William T., assignor.)
Crescent Tool Company, The. (See Johnson, John E., assignor.)
Cress, Leonidas H. (See Bean, Leon H., assignor.)
Cress, Leonidas H., West Newton, assignor to Federal Tool Company, East Boston, Mass. Blade for safety-razors. No. 1,047,617; Dec. 17; Gaz. vol. 185; p. 704.
Cress, Leonidas H., West Newton, A. Novitsky, and H. W. Greenbrier, assignors to Federal Tool Company, Everett, Mass. Safety-razor. No. 1,044,863; Nov. 19; Gaz. vol. 184; p. 694.
Creuzbaur, Carrie, *et al.*, executors. (See Creuzbaur, Robert.)
Creuzbaur, Helen M., *et al.*, executors. (See Creuzbaur, Robert.)
Creuzbaur, Robert, deceased, New York; H. M. and C. Creuzbaur, Brooklyn, and G. C. Nichols, New York, N. Y., executors. Motor. No. 1,037,842; Sept. 3; Gaz. vol. 182; p. 221.
Creveling, John L., New York, N. Y., assignor to Safety Car Heating and Lighting Company. Electric regulation. No. 1,018,963; Feb. 27; Sp. p. 6046; Gaz. vol. 175; p. 1042.
Creveling, John L., New York, N. Y., assignor to Safety Car Heating and Lighting Company. Electric regulation. No. 1,018,964; Feb. 27; Sp. p. 6048; Gaz. vol. 175; p. 1043.
Creveling, John L., New York, N. Y., assignor to Safety Car Heating and Lighting Company. Electric regulation. No. 1,020,479; Mar. 19; Sp. p. 3111; Gaz. vol. 176; p. 561.
Creveling, John L., New York, N. Y., assignor to Safety Car Heating and Lighting Company. Electric regulation. No. 1,025,455; May 7; Sp. p. 775; Gaz. vol. 178; p. 121.
Creveling, John L., New York, N. Y., assignor to Safety Car Heating and Lighting Company. Electric regulation. No. 1,042,770; Oct. 29; Gaz. vol. 183; p. 1180.
Creveling, John L., New York, N. Y., assignor to The Safety Car Heating & Lighting Company. Pressure-regulator. No. 1,045,375; Nov. 26; Gaz. vol. 184; p. 900.
Crews, Stephen R., assignor of one-half to J. Richardson, Tampa, Fla. Spring-tire for vehicles. No. 1,030,233; June 18; Sp. p. 4705; Gaz. vol. 179; p. 809.
Crews, William E., Terre Haute, Ind. Car-fender. No. 1,029,976; June 18; Sp. p. 4164; Gaz. vol. 179; p. 721.
Crewson, Charles C., Kansas City, Mo. Street-car. No. 1,013,376; Jan. 2; Sp. p. 632; Gaz. vol. 174; p. 100.
Cribbins, Frank P., Derby, Conn. Machine for homogenizing milk, cream, &c. No. 1,030,649; June 25; Sp. p. 5834; Gaz. vol. 179; p. 999.
Crichton, Arthur M., Quincy, Ill. Telephone-service meter. No. 1,025,378; May 7; Sp. p. 607; Gaz. vol. 178; p. 94.
Crichton, William A., Paris, Ontario, Canada. Elevator. No. 1,023,626; Apr. 16; Sp. p. 3981; Gaz. vol. 177; p. 699.
Crider, Orin W. (See Roe, Jackson M., assignor.)
Crighton, Peter F., and P. D. Hives, Saskatoon, Saskatchewan, Canada. Attachment for bed-springs. No. 1,019,765; Mar. 12; Sp. p. 1646; Gaz. vol. 176; p. 287.
Cripe, Daniel E., Hillisburg, Ind. Compound for removing carbon from engine-cylinders. No. 1,022,466; Apr. 9; Sp. p. 1509; Gaz. vol. 177; p. 271.
Crippen, Herbert O., New York, N. Y. Guard-rail for upper berths. No. 1,014,126; Jan. 9; Sp. p. 2317; Gaz. vol. 174; p. 387.
Crippen, Walter R., Newton, assignor to Vose & Sons Piano Company, Boston, Mass. Mechanism for actuating music-rolls in pneumatic players. No. 1,025,126; May 7; Sp. p. 33; Gaz. vol. 178; p. 7.
Crippen, Walter R., Newton, assignor to Vose & Sons Piano Company, Boston, Mass. Tracker-bar for pneumatic players. No. 1,025,127; May 7; Sp. p. 34; Gaz. vol. 178; p. 7.
Crippen, Walter R., Newton, assignor to Vose & Sons Piano Company, Boston, Mass. Action-bracket and wind-box for player-pianos. No. 1,025,183; May 7; Sp. p. 163; Gaz. vol. 178; p. 27.
Crippen, Walter R., Newton, assignor to Vose & Sons Piano Company, Boston, Mass. Music-sheet guide. No. 1,025,184; May 7; Sp. p. 165; Gaz. vol. 178; p. 28.
Cripps, William H., New Bethlehem, Pa. Rail connection. No. 1,013,747; Jan. 2; Sp. p. 1452; Gaz. vol. 174; p. 229.
Crisandt, Ewald, Dusseldorf, Germany. Hydraulic pipe-prover. No. 1,034,426; Aug. 6; Gaz. vol. 181; p. 10.
Crisp, Joseph E., Somerville, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Lasting-machine. No. 1,018,965; Feb. 27; Sp. p. 6051; Gaz. vol. 175; p. 1043.
Crispin, Frederic S., Philadelphia, Pa. Draftsman's triangle. No. 1,032,533; July 16; Gaz. vol. 180; p. 665.
Crissey, Clarence P., Lynn, Mass., assignor to General Electric Company. Control of stage-valves. No. 1,020,684; Mar. 19; Sp. p. 3570; Gaz. vol. 176; p. 628.
Crist, George B., Mohawk, N. Y., assignor, by mesne assignments, to American Pin Company, Waterbury, Conn. Float. No. 1,026,203; May 14; Sp. p. 2461; Gaz. vol. 178; p. 412.
Crist, George W., Oskaloosa, Iowa. Ice-cream container. No. 1,041,033; Oct. 15; Gaz. vol. 183; p. 525.
Crist, Mark B., assignor, by mesne assignments, to The Colonial Trust Company, trustee, Pittsburgh, Pa. Governing oil-relay. No. 1,046,443; Dec. 10; Gaz. vol. 185; p. 262.
Crist, Mark B., Pittsburgh, and M. R. Wells, Wilkinsburg, assignors, by mesne assignments, to The Colonial Trust Company, trustee, Pittsburgh, Pa. Non-vibrator ignition apparatus for internal-combustion engines. No. 1,037,732; Sept. 3; Gaz. vol. 182; p. 186.
Crist, Mark B., Pittsburgh, and M. R. Wells, Wilkinsburg, assignors, by mesne assignments, to The Colonial Trust Company, trustee, Pittsburgh, Pa. Ignition apparatus for internal-combustion engines. No. 1,040,518; Oct. 8; Gaz. vol. 183; p. 315.
Cristy, W. A. (See Coyle, James W., assignor.)
Cristy, W. A. (See Coyle and Lynch, assignors.)
Criswell, David S., Prospect, Pa. Standing valve. No. 1,015,142; Jan. 16; Sp. p. 4540; Gaz. vol. 174; p. 766.
Crites, Valentine, Tanner, W. Va. Trap-holder. No. 1,030,165; June 18; Sp. p. 4549; Gaz. vol. 179; p. 785.
Crittall, Francis H., Braintree, England. Jointing metal sash-bars. No. 1,016,916; Feb. 6; Sp. p. 1508; Gaz. vol. 175; p. 233.
Crittall, Francis H., Braintree, England. Manufacture of metal casements. No. 1,025,688; May 7; Sp. p. 1290; Gaz. vol. 178; p. 200.
Crittall, Valentine G., Chelmsford, England. Window-sash. No. 1,046,444; Dec. 10; Gaz. vol. 185; p. 262.
Crittenden, Kenneth, Detroit, Mich. Clutch. No. 1,034,694; Aug. 6; Gaz. vol. 181; p. 97.
Crittenden, Kenneth, Detroit, Mich. Motor-vehicle suspension. No. 1,046,273; Dec. 3; Gaz. vol. 185; p. 165.
Critton, William H., Fellows, Cal. Drill. No. 1,030,387; June 25; Sp. p. 5073; Gaz. vol. 179; p. 904.
Croasdale, Edgar. (See Vincent and Croasdale.)
Croasdale, Robert, *et al.* (See Mitchell, George R., assignor.)
Crocco, Gaetano A., and O. Ricaldoni, Rome, Italy. Elastically-connected surfaces for insuring the stability of airships, aeroplanes, and submarine boats. No. 1,038,507; Sept. 10; Gaz. vol. 182; p. 481.
Crocker, Clarence T., Norwood, Ohio, assignor to Allis-Chalmers Company and The Bullock Electric Manufacturing Company. Brush-holder. No. 1,030,571; June 25; Sp. p. 5555; Gaz. vol. 179; p. 969.
Crocker, David C., Chillicothe, Ohio. Double fence-post. No. 1,034,983; Aug. 6; Gaz. vol. 181; p. 194.
Crocker, Ernest B. (See Blanchard and Crocker.)
Crocker, Ernest B. (See Blanchard, Crocker, and Eddy.)
Crocker, Ernest B. (See Eddy and Crocker.)
Crocker, Fredrick H., and P. E. Sheridan, Cambridge, Mass. Canopy for draft-animals. No. 1,021,217; Mar. 26; Sp. p. 4689; Gaz. vol. 176; p. 859.
Crocker, Homer F., Chillicothe, Ohio. Nut-lock. No. 1,046,986; Dec. 10; Gaz. vol. 185; p. 450.
Crocker, Thomas F., Dayton, Ohio. Electrical apparatus. No. 1,037,447; Sept. 3; Gaz. vol. 182; p. 92.
Crocker-Wheeler Company. (See Dunn, Gano, assignor.)
Crockett, H. U., *et al.* (See Beall, Albert E., assignor.)
Crockett, Ralph W., *et al.* (See Frost, Walter E., assignor.)
Crockett, Samuel S., Bluff City, Tenn. Folding leg-bracket. No. 1,043,675; Nov. 5; Gaz. vol. 184; p. 223.
Crockett, William P. (See Levison, Maurice, assignor.)
Crofoot, David S., Oshkosh, Wis. Counterbalanced cover for perishable articles. No. 1,031,052; July 2; Gaz. vol. 180; p. 73.
Croker, Harold B., London, England. Die-printing press. No. 1,028,191; June 4; Sp. p. 299; Gaz. vol. 179; p. 39.
Crom, Lennie R., Bladen, Nebr. Draft-equalizer. No. 1,026,909; May 21; Sp. p. 4015; Gaz. vol. 178; p. 689.
Cromer, Martin L., Sturgis, Mich. Adjustable chair. No. 1,028,548; June 4; Sp. p. 1051; Gaz. vol. 179; p. 160.
Crompton & Company. (See Macfarlane and Burge, assignors.)
Crompton & Company. (See Macfarlane, Burge, and Williams, assignors.)
Crompton Company. (See Morton, Arthur, assignor.)
Crompton, Frank E., Brooklyn, assignor to The Signature Company, New York, N. Y. Machine for simultaneously producing a plurality of original impressions or inscriptions. No. 1,045,678; Nov. 26; Gaz. vol. 184; p. 1010.

Alphabetical list of patentees—Continued.

Crompton & Knowles Loom Works. (See Crompton and Lunney, assignors.)
Crompton & Knowles Loom Works. (See Crossland, George, assignor.)
Crompton & Knowles Loom Works. (See Gordon, Albert A., Jr., assignor.)
Crompton & Knowles Loom Works. (See Hutchins, George F., assignor.)
Crompton & Knowles Loom Works. (See McGuiness, Benjamin F., assignor.)
Crompton & Knowles Loom Works. (See Morell, Alfred F., assignor.)
Crompton & Knowles Loom Works. (See Ryon, Eppa H., assignor.)
Crompton & Knowles Loom Works. (See Thayer, Edward D., assignor.)
Crompton & Knowles Loom Works. (See Wyman, Horace, assignor.)
Crompton, Randolph, and W. Lunney, Worcester, Mass., assignors, by mesne assignments, to Crompton & Knowles Loom Works. Bobbin-hopper for filling-changing looms. No. 1,018,168; Feb. 20; Sp. p. 4309; Gaz. vol. 175; p. 740.
Cromwell, A. E., *et al.* (See Reese, Guy F., assignor.)
Cromwell, John C., assignor to The Garrett-Cromwell Engineering Company, Cleveland, Ohio. Cover for pits. No. 1,013,278; Jan. 2; Sp. p. 411; Gaz. vol. 174; p. 66.
Crone, Francis G., Buffalo, N. Y. Combined vaporizer and priming-pump. No. 1,038,300; Sept. 10; Gaz. vol. 182; p. 410.
Crone, Francis G., Buffalo, N. Y. Priming-pump. No. 1,045,951; Dec. 3; Gaz. vol. 185; p. 53.
Cronholm, Frederick N., Sunnyside, Wash. Pipe-joint. No. 1,048,045; Dec. 24; Gaz. vol. 185; p. 878.
Cronin, C. H. (See Lyons, Peter F., assignor.)
Cronin Electrical Appliances Company, The. (See Cronin, Jeremiah, assignor.)
Cronin, Jeremiah, assignor to The Cronin Electrical Appliances Company, Wapakoneta, Ohio. Tool for manipulating wires on high-voltage circuits. No. 1,045,679; Nov. 26; Gaz. vol. 184; p. 1010.
Cronin, Jeremiah, assignor to The Cronin Electrical Appliances Company, Wapakoneta, Ohio. Implement for manipulating wires on high-voltage circuits. No. 1,045,680; Nov. 26; Gaz. vol. 184; p. 1010.
Cronin, John P., Paterson, N. J. Creel. No. 1,016,403; Feb. 6; Sp. p. 376; Gaz. vol. 175; p. 59.
Cronin, Matthew T. (See Cox, James F., assignor.)
Cronin, Patrick J., and E. Harrington, Chicago, Ill. Cooling device for electrotype-plates. No. 1,014,641; Jan. 16; Sp. p. 3459; Gaz. vol. 174; p. 594.
Cronk & Carrier Manufacturing Company, The. (See Cronk, Edward G., assignor.)
Cronk, Charles H., Curtis, Nebr. Folding carrier. No. 1,013,863; Jan. 9; Sp. p. 1723; Gaz. vol. 174; p. 298.
Cronk, Charles H., Curtis, Nebr. Can-carrier. No. 1,018,696; Feb. 27; Sp. p. 5482; Gaz. vol. 175; p. 950.
Cronk, Edward G., Montour Falls, assignor to The Cronk & Carrier Manufacturing Company, Elmira, N. Y. Rake. No. 1,045,263; Nov. 26; Gaz. vol. 184; p. 861.
Cronk, Harrison T., New York, N. Y. Packing-joint. No. 1,019,766; Mar. 12; Sp. p. 1648; Gaz. vol. 176; p. 287.
Cronk, Harrison T., New York, N. Y. Appliance for railway-cars and other conveyances. No. 1,021,663; Mar. 26; Sp. p. 5626; Gaz. vol. 176; p. 1012.
Cronk, Harrison T., New York, N. Y. Railway-toilet flush. No. 1,036,193; Aug. 20; Gaz. vol. 181; p. 677.
Cronk, Wesley M., Jr., White Plains, N. Y. Combined elevator cage and scale. No. 1,015,874; Jan. 30; Sp. p. 6120; Gaz. vol. 174; p. 1067.
Cronk, William, Montour Falls, N. Y. Wrench. No. 1,041,967; Oct. 22; Gaz. vol. 183; p. 877.
Crook, Charles E., Hornitos, Cal. Self-inking device for stamping eggs. No. 1,044,026; Nov. 12; Gaz. vol. 184; p. 375.
Crook, Charles M., assignor, by mesne assignments, to E. E. Yaxley, Chicago, Ill. Time-controlled electric switch. No. 1,022,532; Apr. 9; Sp. p. 1642; Gaz. vol. 177; p. 292.
Crook, David C., Minooka, Ill. Hay-loader. No. 1,036,458; Aug. 20; Gaz. vol. 181; p. 769.
Crook, Thomas J., Wichita, Kans. Hydrocarbon-oil burner. No. 1,042,328; Oct. 22; Gaz. vol. 183; p. 996.
Crooker, Edwin R. (See Dawson, Baylis M., assignor.)
Crooker, Edwin R., Los Angeles, Cal. Clothes-pounder. No. 1,039,701; Oct. 1; Gaz. vol. 183; p. 9.
Crooks, James W., Pelhamwood, N. Y., assignor of one-half to W. Veazie, Barnstable, Mass. Automatically-operated musical instrument. No. 1,044,027; Nov. 12; Gaz. vol. 184; p. 376.
Cropsey, Charles F., Chicago, Ill. Amalgamator. No. 1,035,541; Aug. 13; Gaz. vol. 181; p. 417.
Crosbie, Daniel L., Sacramento, Cal. Resilient wheel. No. 1,043,571; Nov. 5; Gaz. vol. 184; p. 189.
Crosbie, Daniel L., assignor of one-third to J. D. Cornell and V. J. Bartels, Sacramento, Cal. Resilient wheel. No. 1,023,416; Apr. 16; Sp. p. 3550; Gaz. vol. 177; p. 632.
Crosbie, T. S. (See Hudson, Alexander S., assignor.)
Crosby, Arnold B., East Boston, Mass. Measuring and bag-filling device. No. 1,032,190; July 9; Gaz. vol. 180; p. 504.
Crosby, Leonard G., and J. C. Slaughenhaupt, Ouray, Colo. Wrench. No. 1,039,493; Sept. 24; Gaz. vol. 182; p. 872.
Crosby, Lester D., Hartford, Conn. Tire-making machine. No. 1,042,649; Oct. 29; Gaz. vol. 183; p. 1137.
Crosby, Robert E. L., assignor of one-half to A. E. Lockhart, Jonesboro, Ark. Knockdown box. No. 1,015,425; Jan. 23; Sp. p. 5160; Gaz. vol. 174; p. 887.
Crosby Steam Gage and Valve Company. (See Miller, Edward F., assignor.)
Crosby, Thaddeus. (See Faucher and Crosby.)
Crosfield & Sons Limited, Joseph. (See Paal, Carl, assignor.)
Crosier, John H., Philadelphia, Pa. Emergency means for electrical distribution systems. No. 1,043,001; Oct. 29; Gaz. vol. 183; p. 1258.
Crosland, John S., Trenton, N. J. Rope-clip. No. 1,029,345; June 11; Sp. p. 2779; Gaz. vol. 179; p. 468.
Cross, Anson K., Winthrop, Mass. Coin-delivery machine. No. 1,033,157; July 23; Gaz. vol. 180; p. 915.
Cross, Anson K., Winthrop, Mass. Coin and ticket delivery machine and cash-register. No. 1,035,862; Aug. 20; Gaz. vol. 181; p. 562.
Cross, Anson K., Winthrop, Mass. Drawing-tablet. No. 1,041,435; Oct. 15; Gaz. vol. 183; p. 661.
Cross, Frank L., Detroit, Mich. Means for controlling flow through conduits or mains. No. 1,021,762; Apr. 2; Sp. p. 14; Gaz. vol. 177; p. 5.
Cross, Frank L., Detroit, Mich. Valve. No. 1,039,904; Oct. 1; Gaz. vol. 183; p. 79.
Cross, Frank L., Wollaston, Mass. Gas-engine. No. 1,046,738; Dec. 10; Gaz. vol. 185; p. 368.
Cross, Frank L., Wollaston, Mass., assignor to Cross Paper Feeder Company. Sheet-feeding machine. No. 1,041,747; Oct. 22; Gaz. vol. 183; p. 800.
Cross, Garrett P. S. (See Place and Cross.)
Cross, James W., assignor to The Westinghouse Brake Company, Limited, London, England. Oil-engine. No. 1,044,755; Nov. 19; Gaz. vol. 184; p. 653.
Cross Paper Feeder Company. (See Cross, Frank L., assignor.)
Cross, Victor L., Plattsburg, N. Y. Speed-indicator. No. 1,035,085; Aug. 6; Gaz. vol. 181; p. 227.
Cross, William G., Seneca Falls, N. Y. Motive-fluid mixer for internal-combustion engines. No. 1,030,388; June 25; Sp. p. 5074; Gaz. vol. 179; p. 904.
Crosscup, Ira O. (See Tomlinson and Crosscup.)
Crossen, Thomas. (See Stott and Crossen.)
Crossland, George, Long Island City, N. Y., assignor to Crompton & Knowles Loom Works. Woven pile fabric. No. 1,038,532; Sept. 17; Gaz. vol. 182; p. 524.
Crossley, David, Trenton, N. J. Mold for ceramic ware. No. 1,030,389; June 25; Sp. p. 5078; Gaz. vol. 179; p. 905.
Crossley, James S., Solvay, and V. R. Despard, Syracuse, assignors to Pass & Seymour, Inc., Solvay, N. Y. Sign-receptacle. No. 1,042,406; Oct. 29; Gaz. vol. 183; p. 1050.
Crossley, James W., Banks, Ark. Tool. No. 1,024,120; Apr. 23; Sp. p. 5058; Gaz. vol. 177; p. 891.
Crossley, James W., Banks, Ark. Window-lock. No. 1,046,987; Dec. 10; Gaz. vol. 185; p. 450.
Crossley, Joseph, Trenton, N. J. Pottery-jigger. No. 1,028,549; June 4; Sp. p. 1053; Gaz. vol. 179; p. 161.
Crossley, William, and T. D. Adams, West Haven, Conn. Non-refillable bottle. No. 1,014,127; Jan. 9; Sp. p. 2319; Gaz. vol. 174; p. 387.
Crossman, Daniel F., Boston, Mass. Corset-fastener. No. 1,024,063; Apr. 23; Sp. p. 4914; Gaz. vol. 177; p. 871.
Crosthwaite, Walter G., Leeds, England, assignor to D. B. Street, Washington, D. C. Fire-bar for furnaces. No. 1,025,128; May 7; Sp. p. 35; Gaz. vol. 178; p. 7.
Crothers, Noble E., Chicago, Ill. Internal-combustion engine. No. 1,040,153; Oct. 1; Gaz. vol. 183; p. 162.
Crotteau, Eli. (See Wendt, Fred H., assignor.)
Crouch & Fitzgerald. (See Gilmore, Arthur, assignor.)
Crouch & Fitzgerald. (See Gilmore, Winfield S., assignor.)
Crouch, John P., Newton Heath, and J. Etchells, Manchester, England. Electrical distribution system. No. 1,029,428; June 11; Sp. p. 2965; Gaz. vol. 179; p. 496.
Crouch, McElvy S. (See Crouch, William V. and M. S.)
Crouch, Thomas E., assignor to The Yale & Towne Manufacturing Company. Stamford, Conn. Means for securing knob-shanks to spindles. No. 1,026,497; May 14; Sp. p. 3102; Gaz. vol. 178; p. 512.
Crouch, Walker L., Cleveland, Ohio. Valve and valve-gear. No. 1,038,533; Sept. 17; Gaz. vol. 182; p. 524.
Crouch, William V. and M. S., assignors of one-third to H. G. Martin, Arlington, Tex. Cultivator attachment. No. 1,043,044; Oct. 29; Gaz. vol. 183; p. 1274.
Crouse, David E., Annapolis, Md. Device for starting internal-combustion engines. No. 1,032,274; July 9; Gaz. vol. 180; p. 533.
Crouse, David E., Annapolis, Md. Device for starting internal-combustion engines. No. 1,036,972; Aug. 27; Gaz. vol. 181; p. 974.
Crouse-Hinds Company. (See Bissell, Carl H., assignor.)

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Crouse-Hinds Company. (See Bissell and Garling, assignors.)
Crouse-Hinds Company. (See Hinds and Dossert, assignors.)
Crouse-Hinds Company. (See Olley, Raymond H., assignor.)
Crouse, John L., Pittsburgh, and H. R. Edgecomb, Edgewood Park, Pa., assignors to Westinghouse Electric and Manufacturing Company. Treating piston-packing. No. 1,039,702; Oct. 1; Gaz. vol. 183; p. 10.
Crouse, John W., Raton, N. Mex. Railway-tie. No. 1,048,948; Dec. 31; Gaz. vol. 185; p. 1226.
Crow, Frank W., Clarence, Iowa. Non-refillable bottle. No. 1,014,693; Jan. 16; Sp. p. 3576; Gaz. vol. 174; p. 612.
Crow, Levi H., Wichita Falls, Tex. Closet. No. 1,021,763; Apr. 2; Sp. p. 17; Gaz. vol. 177; p. 5.
Crowder, George M., Lebanon, Ill. Attachment for mowing-machines. No. 1,027,463; May 28; Sp. p. 5224; Gaz. vol. 178; p. 916.
Crowdes, Jackson G., Boston, Mass. Engine. No. 1,024,440; Apr. 23; Sp. p. 5729; Gaz. vol. 177; p. 997.
Crowe, Alexander, Youngstown, Ohio. Tire. No. 1,043,402; Nov. 5; Gaz. vol. 184; p. 128.
Crowe, Charles E., Chicago, Ill. Trocar. No. 1,014,128; Jan. 9; Sp. p. 2321; Gaz. vol. 174; p. 387.
Crowe, John. (See Johnson and Crowe.)
Crowell, John H., Vineyard Haven, Mass. Combined cap and socket wrench used on and in connection with valves of pneumatic tires for wheels. No. 1,017,537; Feb. 13; Sp. p. 2878; Gaz. vol. 175; p. 485.
Crowell, Joseph M., Rohrersville, Md. Nut-lock. No. 1,049,055; Dec. 31; Gaz. vol. 185; p. 1263.
Crowl, Samuel E., Stuart, Iowa. Harness-buckle. No. 1,044,503; Nov. 19; Gaz. vol. 184; p. 567.
Crowley, Christopher O., and H. A. Lamb, London, England. Direction-indicator for vehicles. No. 1,016,404; Feb. 6; Sp. p. 377; Gaz. vol. 175; p. 60.
Crowley, Daniel W. (See Collins, Wilbur L., assignor.)
Crowley, John A. (See Kunkle, James F., assignor.)
Crowley, John T., assignor to The Beacon Falls Rubber Shoe Company, Beacon Falls, Conn. Rubber boot. No. 1,037,448; Sept. 3; Gaz. vol. 182; p. 93.
Crowley, John T., assignor to The Beacon Falls Rubber Shoe Company, Beacon Falls, Conn. Rubber shoe. No. 1,047,504; Dec. 17; Gaz. vol. 185; p. 664.
Crowmer, Harvey L., Indianapolis, Ind. Wire-splicing tool. No. 1,039,104; Sept. 24; Gaz. vol. 182; p. 736.
Crown Hat Manfg. Co. (See Golden, Maximilian K., assignor.)
Crown Iron Works Co. (See Adam, Folger, assignor.)
Crowner, James M., Batavia, assignor to Atlas Acetylene Lighting Company, Ottumwa, Iowa. Acetylene-gas generator. No. 1,022,356; Apr. 2; Sp. p. 1257; Gaz. vol. 177; p. 202.
Crowson, Albert L., Arcadia, La. Temporary binder. No. 1,032,380; July 16; Gaz. vol. 180; p. 614.
Crowther, Joshua, Longbeach, Cal. Display device. No. 1,034,884; Aug. 6; Gaz. vol. 181; p. 163.
Croyle, Abraham S., near Auburn, Kans. Gate-latch. No. 1,032,883; July 16; Gaz. vol. 180; p. 785.
Crozier, Charles, Honolulu, Hawaii. Apparatus for conveying and loading sugar-cane and the like. No. 1,025,379; May 7; Sp. p. 614; Gaz. vol. 178; p. 95.
Cruikshank, Ella. (See Cruikshank and Elmore, assignors.)
Cruikshank, Ella. (See Cruikshank and McAnulty, assignors.)
Cruikshank, Ernest W., and M. R. Elmore; said Elmore assignor to E. Cruikshank, Baltimore, Md. Loom for weaving pile fabrics. No. 1,027,995; May 28; Sp. p. 6371; Gaz. vol. 178; p. 1094.
Cruikshank, Ernest W., and J. A. McAnulty, Baltimore, Md.; said McAnulty assignor to E. Cruikshank, Montclair, N. J. Loom. No. 1,027,996; May 28; Sp. p. 6380; Gaz. vol. 178; p. 1095.
Crull, Abner D., and L. Spangler, assignors to L. Spangler and R. Miller, Indianapolis, Ind. Life-preserver. No. 1,042,894; Oct. 29; Gaz. vol. 183; p. 1222.
Crum, Emanuel L., Decatur, Ill. Gasolene-filter. No. 1,040,283; Oct. 8; Gaz. vol. 183; p. 235.
Crum, H. B. (See Hollingsworth, Rea, assignor.)
Crum, Roscoe D., McKenzie, N. D. Nose-protector for horses. No. 1,044,864; Nov. 19; Gaz. vol. 184; p. 694.
Crump, John, Loudonville, Ohio. Wire-splicer. No. 1,020,191; Mar. 12; Sp. p. 2533; Gaz. vol. 176; p. 430.
Crump, Robert B., and W. M. Robertson, New York, N. Y. Drill. No. 1,037,449; Sept. 3; Gaz. vol. 182; p. 93.
Crunden-Martin Woodenware Company. (See Peck, William J., assignor.)
Cruse, Arthur R., Philadelphia, Pa. Safety device for gasholders. No. 1,013,643; Jan. 2; Sp. p. 1199; Gaz. vol. 174; p. 191.
Cruser, Frederick V. (See Fairburn, Cruser, and Green.)
Cruser, Frederick V., Barberton, Ohio, assignor to The Diamond Match Company, Chicago, Ill. Match-machine. No. 1,044,145; Nov. 12; Gaz. vol. 184; p. 415.
Cruser, Frederick V., and W. Green, Barberton, Ohio, assignors to The Diamond Match Company, Chicago, Ill. Splint-drying mechanism for match-machines. No. 1,044,146; Nov. 12; Gaz. vol. 184; p. 415.
Crutchfield, Oliver, Ottumwa, Iowa. Folding sled. No. 1,013,132; Jan. 2; Sp. p. 85; Gaz. vol. 174; p. 15.
Cruver Manufacturing Company. (See Kristofek, Frank J., assignor.)
Cruzan, Schuyler C., Whittier, Cal. Wrench. No. 1,028,192; June 4; Sp. p. 305; Gaz. vol. 179; p. 39.
Cryar, Honor F., De Ridder, La. Cuspidor. No. 1,040,154; Oct. 1; Gaz. vol. 183; p. 162.
Cryer, Albert A. (See Paul and Cryer.)
Crystalized Milk Co. (See Roeh, John, assignor.)
Cselenkó, Jozsef, Bedford, Ohio. Shoe-heel. No. 1,047,756; Dec. 17; Gaz. vol. 185; p. 754.
Csernai, Louis. (See Tierney and Csernai.)
Csiky, Zoltan B. (See Kronheim and Csiky.)
Csontos, Joseph, Galveston, Tex. Fan attachment for rocking-chairs. No. 1,040,155; Oct. 1; Gaz. vol. 183; p. 162.
Cubelic, Ludwig, Charlottenburg, Germany, assignor to General Electric Company. Combined emergency and throttle valve. No. 1,020,685; Mar. 19; Sp. p. 3572; Gaz. vol. 176; p. 629.
Cubelic, Ludwig, Charlottenburg, Germany, assignor to General Electric Company. Governing mechanism for turbines. No. 1,020,686; Mar. 19; Sp. p. 3575; Gaz. vol. 176; p. 629.
Cubine, Burt T. (See McCune and Cubine.)
Cubitt, Archibald S., Pittsfield, Mass., assignor to General Electric Company. Time and current limit relay. No. 1,019,425; Mar. 5; Sp. p. 974; Gaz. vol. 176; p. 142.
Cubitt, Archibald S., Pittsfield, Mass., assignor to General Electric Company. Electric flat-iron. No. 1,019,426; Mar. 5; Sp. p. 976; Gaz. vol. 176; p. 143.
Cubitt, Archibald S., Pittsfield, Mass., assignor to General Electric Company. Electric water-heater. No. 1,019,427; Mar. 5; Sp. p. 977; Gaz. vol. 176; p. 143.
Cubitt, Archibald S., Pittsfield, Mass., assignor to General Electric Company. Motor-control system. No. 1,019,428; Mar. 5; Sp. p. 979; Gaz. vol. 176; p. 143.
Cubitt, Archibald S., Pittsfield, Mass., assignor to General Electric Company. Electric toaster. No. 1,021,239; Mar. 26; Sp. p. 4746; Gaz. vol. 176; p. 867.
Cubitt, Archibald S., Schenectady, N. Y., assignor to General Electric Company. Relay. No. 1,025,786; May 7; Sp. p. 1482; Gaz. vol. 178; p. 234.
Cudahey, Edward A. (See Tardiff, Paul E., assignor.)
Cuddihy, Edward, Tooele, Utah. Side troughing-roll for belt conveyers. No. 1,035,322; Aug. 13; Gaz. vol. 181; p. 341.
Cuddy, John H., Jr., Providence, R. I. Display-rack. No. 1,032,590; July 16; Gaz. vol. 180; p. 684.
Cudell, Frank E., Cleveland, Ohio. Sewer-gas trap. No. 1,027,997; May 28; Sp. p. 6384; Gaz. vol. 178; p. 1095.
Cudia, Ludovico, Greensburg, Pa. Firearm. No. 1,015,226; Jan. 16; Sp. p. 4689; Gaz. vol. 174; p. 792.
Cuenin, Charles A., New York, N. Y. Die-box. No. 1,027,185; May 21; Sp. p. 4659; Gaz. vol. 178; p. 783.
Cuenot, Paul A., Steelton, and L. G. Fischer, Harrisburg, Pa. Milling-machine. No. 1,045,817; Dec. 3; Gaz. vol. 185; p. 7.
Cuenot, Paul A., Steelton, and L. G. Fischer, Harrisburg, Pa. Milling-machine. No. 1,047,177; Dec. 17; Gaz. vol. 185; p. 546.
Cuillerier, Noe, *et al.* (See Brunelle, Arthur, assignor.)
Culbertson, David C., Dodge City, Kans. Spring-motor. No. 1,033,158; July 23; Gaz. vol. 180; p. 915.
Culbertson, William C., Rushville, Ind. Corn-husking machine. No. 1,018,881; Feb. 27; Sp. p. 5874; Gaz. vol. 175; p. 1013.
Cullen, John B., New York, N. Y. Lock-nut. No. 1,036,803; Aug. 27; Gaz. vol. 181; p. 917.
Cullen, John T., Jr., Clinton, Iowa. Water-heater. No. 1,039,651; Sept. 24; Gaz. vol. 182; p. 929.
Cullen, Michael, Hartford, Conn. Stove. No. 1,035,863; Aug. 20; Gaz. vol. 181; p. 562.
Culley, John S., Louisville, Ky. Hanger for cement posts. No. 1,019,604; Mar. 5; Sp. p. 1332; Gaz. vol. 176; p. 201.
Culley, Stuart Y. (See Carlton and Culley.)
Cullman, Otto, Chicago, Ill. Differential device. No. 1,018,553; Feb. 27; Sp. p. 5202; Gaz. vol. 175; p. 904.
Cullon, John P. (See Irwin, Cullon, and Knowlson.)
Culomer, Frank J., Chicago, Ill., assignor of one-half to J. Rostar, Newark, N. J. Floating device for swimmers. No. 1,027,642; May 28; Sp. p. 5579; Gaz. vol. 178; p. 975.
Culotta, Frank, Ingram, Pa. Bottle-stopper. No. 1,042,091; Oct. 22; Gaz. vol. 183; p. 918.
Culp, Earle E. (See Rothe and Culp.)
Culp, John W., Bay City, assignor to Battery-Ball Mfg. Co., Jackson, Mich. Game apparatus. No. 1,018,409; Feb. 27; Sp. p. 4821; Gaz. vol. 175; p. 853.
Culter & Proctor Stove Co. (See Genthner, Charles M., assignor.)
Culver, Edward, assignor of one-half to F. B. Bassler, Chicago, Ill. Swinging window. No. 1,021,862; Apr. 2; Sp. p. 243; Gaz. vol 177; p. 39.
Culver, Frederick S., Taunton, Mass. Spinning-machine. No. 1,013,748; Jan. 2; Sp. p. 1453; Gaz. vol. 174; p. 229.
Culver, Frederick S., Taunton, Mass. Spinning-machine. No. 1,039,905; Oct. 1; Gaz. vol. 183; p. 79.

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Culver, Frederick S., Taunton, Mass. Spooling or winding machine. No. 1,039,906; Oct. 1; Gaz. vol. 183; p. 79.
Cumberland, Peregrine E. G., St. Kilda, Victoria, assignor to A. Markell, Sydney, Australia. Means for preventing corrosion of surface condensers and other metal structures. No. 1,020,480; Mar. 19; Sp. p. 3113; Gaz. vol. 176; p. 562.
Cuming, Mari A., New York, N. Y. Press. No. 1,037,841; Sept. 3; Gaz. vol. 182; p. 221.
Cummer, Herbert H., Cadillac, Mich. Combined egg carrier and delivery tray. No. 1,049,211; Dec. 31; Gaz. vol. 185; p. 1315.
Cummings, Alexander L., *et al.* (See Hazelip, Edwin, assignor.)
Cummings, Clarence A., Fresno, Cal. Adjustable packing-pliers. No. 1,019,605; Mar. 5; Sp. p. 1333; Gaz. vol. 176; p. 201.
Cummings, David P. (See Wright and Cummings.)
Cummings, Frank M., Byesville, Ohio. Trolley-wheel. No. 1,020,540; Mar. 19; Sp. p. 3250; Gaz. vol. 176; p. 581.
Cummings, Frederick L., Boston, Mass. Bottle-carrier. No. 1,022,533; Apr. 9; Sp. p. 1645; Gaz. vol. 177; p. 292.
Cummings, George, assignor of one-half to E. M. Lewis, Dayton, Ohio. Cycle-fork. No. 1,014,285; Jan. 9; Sp. p. 2653; Gaz. vol. 174; p. 442.
Cummings, George A., Bondville, Vt. Manufacturing fireproof composition. No. 1,028,193; June 4; Sp. p. 306; Gaz. vol. 179; p. 40.
Cummings, George W., Troy, N. Y. Knitted fabric. No. 1,027,696; May 28; Sp. p. 5702; Gaz. vol. 178; p. 994.
Cummings, Henry H. (See Gary, Howland R., assignor.)
Cummings, Henry H., Newton, Mass., assignor, by mesne assignments, to Atlantic National Bank, Providence, R. I. Target-practice apparatus. No. 1,014,620; Jan. 9; Sp. p. 3349; Gaz. vol. 174; p. 556.
Cummings, Henry H., Newton, Mass., assignor, by mesne assignments, to Atlantic National Bank, Providence, R. I. Target-practice apparatus. No. 1,038,728; Sept. 17; Gaz. vol. 182; p. 593.
Cummings, James, *et al.* (See Ironside, Matthew C., assignor.)
Cummings, John S., assignor to Eastman Kodak Company, Rochester, N. Y. Photographic-printing machine. No. 1,025,249; May 7; Sp. p. 313; Gaz. vol. 178; p. 50.
Cummings, Robert A., Beaver, Pa. Reinforced-concrete slab. No. 1,035,323; Aug. 13; Gaz. vol. 181; p. 341.
Cummings, Robert A., Beaver, Pa. Reinforced-concrete pile, column, or pole. No. 1,041,034; Oct. 15; Gaz. vol. 183; p. 525.
Cummings, Robert A., Beaver, Pa. Corrugated concrete pile. No. 1,041,035; Oct. 15; Gaz. vol. 183; p. 526.
Cummings, Walter C., Boston, assignor to N. Heard, trustee, Newton, Mass. Apparatus for assembling veneer barrels. No. 1,020,687; Mar. 19; Sp. p. 3578; Gaz. vol. 176; p. 630.
Cummins, Carey E., Aberdeen, S. D. Storm-sash. No. 1,045,681; Nov. 26; Gaz. vol. 184; p. 1011.
Cummins, Henry D., Hunt, N. Y. Crossover for rails. No. 1,021,574; Mar. 26; Sp. p. 5479; Gaz. vol. 176; p. 984.
Cummins, Herbert L., assignor of five-twelfths to H. M. Fulmer, East Ely, Nev., one-twelfth to B. L. Quayle, and one-twelfth to C. S. Chandler. Rotary engine. No 1,017.139; Feb. 13; Sp. p. 2029; Gaz. vol. 175; p. 348.
Cummins, Patrick H., Amsterdam, N. Y. Side framing for sleighs. No. 1,040,897; Oct. 8; Gaz. vol. 183; p. 445.
Cummiskey, Philip O. (See Hartman and Cummiskey.)
Cumnock, Arthur J., New York, N. Y. Making shirts. No. 1,016,552; Feb. 6; Sp. p. 752; Gaz. vol. 175; p. 111.
Cundell, Edward D. (See Zabriskie, Albert, assignor.)
Cunliffe, Henry A. (See Safely, George W., assignor.)
Cunniff, Edward A., New Bedford, Mass., assignor to Draper Company. Filling-fork mechanism for looms. No. 1,013,375; Jan. 2; Sp. p. 631; Gaz. vol. 174; p. 100.
Cunniff, John V., Fall River, assignor to J. K. Lanning, Boston, Mass. Bobbin-clutching spinning-spindle. No. 1,024,396; Apr. 23; Sp. p. 5607; Gaz. vol. 177; p. 983.
Cunning, James, Indianapolis, Ind. Barrel-forming machine. No. 1,046,445; Dec. 10; Gaz. vol. 185; p. 263.
Cunningham, Allan S., Oskaloosa, Iowa, and B. C. Buxton, Barrington, Ill., assignors of one-fourth to E. Henley, Oskaloosa, Iowa. Portable railway construction. No. 1,022,467; Apr. 9; Sp. p. 1509; Gaz. vol. 177; p. 271.
Cunningham, Andrew C., Washington, D. C. Floating dry-dock. No. 1,022,931; Apr. 9; Sp. p. 2516; Gaz. vol. 177; p. 429.
Cunningham, Edward R., assignor of one-third to E. B. Bieghler and one-third to F. C. Tate, Des Moines, Iowa. Combined relay, target-setting, and return-call-circuit-closing device. No. 1,016,482; Feb. 6; Sp. p. 559; Gaz. vol. 175; p. 86.
Cunningham, Elkana F., Clarksburg, W. Va. Street-car-window cleaner. No. 1,043,073; Nov. 5; Gaz. vol. 184; p. 8.
Cunningham, George F., Knoxville borough, Pa. Mechanic's tool. No. 1,040,284; Oct. 8; Gaz. vol. 183; p. 236.
Cunningham, John J., Manchester, N. H. Machine for covering rolls with leather. No. 1,013,749; Jan. 2; Sp. p. 1455; Gaz. vol. 174; p. 230.
Cunningham, Kittie E., Steele, N. D. Protecting-cap for stop-plugs. No. 1,030,390; June 25; Sp. p. 5080; Gaz. vol. 179; p. 906.
Cunningham, Lemuel S., Clinton, Wash. Flying-machine. No. 1,032,744; July 16; Gaz. vol. 180; p. 739.
Cunningham, Luther, Morgan Hill, Cal. Clod-pulverizer. No. 1,041,036; Oct. 15; Gaz. vol. 183; p. 526.
Cunningham, Patrick E., *et al.* (See Garton, Cyril S., assignor.)
Cunningham, Patrick E., and R. Reid, Chidlows Well, Western Australia, assignors of one-half to V. M. Fitz-Hugh, Doodlakin, Australia. Spark-arrester for locomotives. No. 1,028,683; June 4; Sp. p. 1328; Gaz. vol. 179; p. 205.
Cunningham, Patrick E., and R. Reid, Chidlows Well, Western Australia, assignors of one-half to V. M. Fitz Hugh, Kerkinin, Australia. Spark-arrester. No. 1,041,436; Oct. 15; Gaz. vol. 183; p. 661.
Cunningham, Richard A., Spanish Fort, Tex. Churn-operating mechanism. No. 1,049,056; Dec. 31; Gaz. vol. 185; p. 1263.
Cunningham, Richard H., New York, N. Y. Circuit-breaker for magnetos and the like. No. 1,021,506; Mar. 26; Sp. p. 5339; Gaz. vol. 176; p. 962.
Cunningham, Richard H., New York, N. Y. Dual ignition system. No. 1,022,828; Apr. 9; Sp. p. 2306; Gaz. vol. 177; p. 394.
Cunningham, Richard H., New York, N. Y. Dual ignition system. No. 1,023,552; Apr. 16; Sp. p. 3816; Gaz. vol. 177; p. 674.
Cunningham, Richard H., New York, N. Y. Combined ignition system. No. 1,026,565; May 14; Sp. p. 3229; Gaz. vol. 178; p. 534.
Cunningham, Robert P., Holyoke, Mass. Breast-wall brick for cupolas. No. 1,027,821; May 28; Sp. p. 5967; Gaz. vol. 178; p. 1036.
Cunningham, William, New York, N. Y. Window-sash lock. No. 1,040,156; Oct. 1; Gaz. vol. 183; p. 163.
Cunningham, William J., Philadelphia, Pa. Vehicle-wheel. No. 1,016,673; Feb. 6; Sp. p. 1009; Gaz. vol. 175; p. 152.
Cunningham, William J., Philadelphia, Pa. Machine for capping bottles. No. 1,022,829; Apr. 9; Sp. p. 2310; Gaz. vol. 177; p. 395.
Cunningham, William J., Philadelphia, Pa. Vehicle-tire No. 1,028,331; June 4; Sp. p. 578; Gaz. vol. 179; p. 86.
Cunningham, William R., assignor to The American Clay Machinery Co., Bucyrus, Ohio. Grinding-mill. No. 1,028,550; June 4; Sp. p. 1054; Gaz. vol. 179; p. 161.
Cuno, Charles, assignor to The Connecticut Telephone & Electric Company, Incorporated, Meriden, Conn. Dual ignition system. No. 1,026,077; May 14; Sp. p. 2190; Gaz. vol. 178; p. 369.
Cuno, Charles, assignor to The Connecticut Telephone & Electric Company, Incorporated, Meriden, Conn. Magneto interrupter and timer. No. 1,029,914; June 18; Sp. p. 4037; Gaz. vol. 179; p. 701.
Cuntz, Hermann F., Hartford, Conn. Door. No. 1,022,468; Apr. 9; Sp. p. 1511; Gaz. vol. 177; p. 271.
Cuntz, Hermann F., Hartford, Conn. Tally-chart. No. 1,023,457; Apr. 16; Sp. p. 3629; Gaz. vol. 177; p. 644.
Cuntz, John H., Hoboken, N. J. Electric-wave transmission. No. 1,026,150; May 14; Sp. p. 2338; Gaz. vol. 178; p. 395.
Cuntz, John H., Hoboken, N. J. Telephone and telegraph relay or repeater. No. 1,038,301; Sept. 10; Gaz. vol. 182; p. 410.
Cunynghame, Henry H. S., Nutfield, England. Hygroscope. No. 1,019,767; Mar. 12; Sp. p. 1650; Gaz. vol. 176; p. 288.
Cuppel, Charles M., Milwaukee, Wis. Milk-strainer. No. 1,017,083; Feb. 13; Sp. p. 1917; Gaz. vol. 175; p. 329.
Cupps, Arthur, and C. R. Hinz, Waupun, Wis. Thread-cutting mechanism for sewing-machines. No. 1,046,274; Dec. 3; Gaz. vol. 185; p. 166.
Cuppy, Hazlitt A. (See Schmidt, Godfrey P., assignor.)
Curd, Albert, Thorntown, Ind. Locking device for buckles. No. 1,032,047; July 9; Gaz. vol. 180; p. 456.
Cureton, Albert. (See Oliver and Cureton.)
Curl, Fred H., Longbeach, Cal. Means for casting finger-rings. No. 1,049,212; Dec. 31; Gaz. vol. 185; p. 1315.
Curl, John B., Sisters, Oreg. Pie-trimmer. No. 1,032,117; July 9; Gaz. vol. 180; p. 478.
Curlew Novelty Company. (See Curtis, Samuel, assignor.)
Curley, Joseph J., New York, N. Y. Racket. No. 1,046,562; Dec. 10; Gaz. vol. 185; p. 306.
Curphey, John M., and J. W. Poince, Dayton, Ohio. Device for testing the temperature of tobacco. No. 1,037,210; Sept. 3; Gaz. vol. 182; p. 11.
Curran, Edward, Cardiff, England. Furnace. No. 1,015,616; Jan. 23; Sp. p. 5568; Gaz. vol. 174; p. 954.
Curran, Frank P., New York, N. Y. Handle for textile bags. No. 1,020,639; Mar. 19; Sp. p. 3478; Gaz. vol. 176; p. 614.
Curran, Harry L., assignor of one-half to E. F. Kellogg and one-half to H. L. Gillespie, New York, N. Y. Amusement device for exhibiting automobiles. No. 1,025,456; May 7; Sp. p. 778; Gaz. vol. 178; p. 122.

Alphabetical list of patentees—Continued.

Curran, William E., Cardiff, England. Fire-bridge. No. 1,014,377; Jan. 9; Sp. p. 2874; Gaz. vol. 174; p. 475.
Currence, Bony C., Tiffin, Ohio. Trowel. No. 1,024,559; Apr. 30; Sp. p. 6077; Gaz. vol. 177; p. 1076.
Currey, Charles F., assignor to The Kansas Voting Machine Company, Topeka, Kans. Making hubs upon sheet-metal articles. No. 1,048,046; Dec. 24; Gaz. vol. 185; p. 878.
Currey, Jesse A. (See Adams and Currey.)
Currie, Harry A. (See Greenway, William R., assignor.)
Currie, James C. (See Tuma, Frank, assignor.)
Currie, Malcomb M., Houston, Tex. Cutter. No. 1,032,381; July 16; Gaz. vol. 180; p. 615.
Currie, Otis C. (See Stafford and Currie.)
Currier, Hiram D., Chicago, Ill., and G. Wolf, New York, N. Y., assignors to Western Electric Company, Chicago, Ill. Service-meter circuits. No. 1,026,151; May 14; Sp. p. 2341; Gaz. vol. 178; p. 395.
Currin, Sydney A., Bristol, England. Dust-cap for pneumatic-tire valves. No. 1,034,209; July 30; Gaz. vol. 180; p. 1297.
Currin, Sydney A., Bristol, England. Hub for wire wheels. No. 1,037,733; Sept. 3; Gaz. vol. 182; p. 186.
Currin, William D., *et al.* (See Lineback, Edward E., assignor.)
Currivan, John. (See Werner and Currivan.)
Curry, Alfred A., Bridgeport, Conn. Resilient tire for vehicle-wheels. No. 1,024,976; Apr. 30; Sp. p. 6947; Gaz. vol. 177; p. 1221.
Curry, Claud D., Brooklyn, N. Y. Chuck for paper-roll shafts. No. 1,016,738; Feb. 6; Sp. p. 1134; Gaz. vol. 175; p. 174.
Curry, John. (See Reinach, Louis, assignor.)
Curry, John P., New York, N. Y. Automatic package filler and weigher. No. 1,048,446; Dec. 24; Gaz. vol. 185; p. 1012.
Curtain Supply Company, The. (See Forsyth, William H., assignor.)
Curtain Supply Company, The. (See Whitmore, Edward E., assignor.)
Curtin, Peter A., Buffalo, N. Y. Oil-drip. No. 1,040,898; Oct. 8; Gaz. vol. 183; p. 445.
Curtin, William H., Brooklyn, N. Y. Fluid-conduit throttle. No. 1,043,403; Nov. 5; Gaz. vol. 184; p. 128.
Curtis, Arthur F., Elgin, Ill. Clasping and lifting device. No. 1,047,505; Dec. 17; Gaz. vol. 185; p. 664.
Curtis, Charles G., New York, N. Y. Marine steam-turbine. No. 1,027,698; May 28; Sp. p. 5705; Gaz. vol. 178; p. 994.
Curtis, Charles G., New York, N. Y., assignor, by mesne assignments, to General Electric Company. Elastic-fluid turbine. No. 1,027,697; May 28; Sp. p. 5703; Gaz. vol. 178; p. 994.
Curtis, Charles H., Argos, Ind. Preserving wood. No. 1,022,064; Apr. 2; Sp. p. 661; Gaz. vol. 177; p. 106.
Curtis, Charles K. (See Bailey, Joseph, assignor.)
Curtis & Company Manufacturing Company. (See Steedman, Edwin H. and J. H., assignors.)
Curtis, Cyrus J. and R. C., assignors of one-half to G. D. Casto, Preston, Idaho. Pipe-grab. No. 1,034,210; July 30; Gaz. vol. 180; p. 1297.
Curtis, Frank G. (See Le Duc, Joseph, assignor.)
Curtis, Frank G., assignor to L. A. Guiterman, St. Paul, Minn. Neck-protector for coats. No. 1,016,214; Jan. 30; Sp. p. 6818; Gaz. vol. 174; p. 1185.
Curtis, Fred W., Hereford, Tex. Tongue-truck for corn-binders. No. 1,014,129; Jan. 9; Sp. p. 2323; Gaz. vol. 174; p. 388.
Curtis, Frederic A., assignor to The Steel Mantle Light Company, Toledo, Ohio. Oil-burner. No. 1,019,306; Mar. 5; Sp. p. 676; Gaz. vol. 176; p. 105.
Curtis, George A., Medford, Mass. Shoe-nail. No. 1,033,159; July 23; Gaz. vol. 180; p. 916.
Curtis, Greely S., New York, N. Y. Mechanical ball game. No. 1,048,047; Dec. 24; Gaz. vol. 185; p. 878.
Curtis, Harry E., West Hempstead, London, England. Abdominal support for medical or surgical purposes. No. 1,035,163; Aug. 13; Gaz. vol. 181; p. 285.
Curtis, James F., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Gear-case for dynamo-electric machines. No. 1,039,703; Oct. 1; Gaz. vol. 183; p. 10.
Curtis, James G., assignor to The E. M. Hulse Company, Columbus, Ohio. Sofa or davenport bed. No. 1,019,606; Mar. 5; Sp. p. 1335; Gaz. vol. 176; p. 202.
Curtis, John D., assignor to Richardson Manufacturing Company, Worcester, Mass. Street-sweeper. No. 1,036,804; Aug. 27; Gaz. vol. 181; p. 918.
Curtis and Jones Company. (See Kline, Albert H., assignor.)
Curtis, Kenneth L., assignor to Albert and J. M. Anderson Manufacturing Company, Boston, Mass. Trolley-wire hanger. No. 1,032,468; July 16; Gaz. vol. 180; p. 643.
Curtis, Lewis B., Bridgeport, Conn. Burner for inflammable volatile fluids. No. 1,023,363; Apr. 16; Sp. p. 3441; Gaz. vol. 177; p. 614.
Curtis & Marble Machine Company. (See Marble, Edwin H., assignor.)
Curtis, Oliver W., assignor of one-third to L. Carpenter, Jr., and one-third to H. W. Bell, Watertown, N. Y. Internal-combustion engine. No. 1,039,704; Oct. 1; Gaz. vol. 183; p. 10.
Curtis Publishing Company, The. (See Sargent, William P., assignor.)
Curtis, Reno C. (See Curtis, Cyrus J. and R. C.)
Curtis, Samuel, assignor to Curlew Novelty Company, St. Louis, Mo. Collapsible drinking-cup. No. 1,025,380; May 7; Sp. p. 617; Gaz. vol. 178; p. 95.
Curtis, Walter L., Worcester, Mass., assignor to De Long Hook and Eye Company, Philadelphia, Pa. Hook-feeding mechanism. No. 1,042,407; Oct. 29; Gaz. vol. 183; p. 1050.
Curtis, William H., Denver, Colo. Combination deep-water-vessel-carrying barge. No. 1,025,514; May 7; Sp. p. 904; Gaz. vol. 178; p. 142.
Curtiss, George W., Blackwell, Wis. Match. No. 1,035,542; Aug. 13; Gaz. vol. 181; p. 417.
Curtiss, George W., Gallitzin, Pa. Railway cross-tie. No. 1,037,599; Sept. 3; Gaz. vol. 182; p. 141.
Curtiss, George W., Kansas City, Mo. Camera. No. 1,044,028; Nov. 12; Gaz. vol. 184; p. 376.
Curtiss, Glenn H., Hammondsport, N. Y. Means for launching flying-machines. No. 1,027,242; May 21; Sp. p. 4776; Gaz. vol. 178; p. 804.
Curwen, Samuel M., Haverford, and W. M. Smith, Moores, assignors to The J. G. Brill Company, Philadelphia, Pa. Passenger-car. No. 1,032,884; July 16; Gaz. vol. 180; p. 785.
Cushing, Walter F. (See MacDonald, William L., assignor.)
Cushion-Corner Bed Spring Co. (See Grotenhuis, William J., assignor.)
Cushman, Arthur A., Bristol, R. I. Support for tables and similar articles. No. 1,014,815; Jan. 16; Sp. p. 3837; Gaz. vol. 174; p. 653.
Cushman, Lucian W., St. Joseph, Mo. Pump-piston. No. 1,030,977; July 2; Gaz. vol. 180; p. 44.
Cushman, William H., assignor to The E. A. Fargo Company, Taunton, Mass. Nest of drinking-cups. No. 1,021,716; Mar. 26; Sp. p. 5730; Gaz. vol. 176; p. 1029.
Cusic, Dennis H., Chicago Heights, assignor to Morden Frog & Crossing Works, Chicago, Ill. Guard-rail. No. 1,039,494; Sept. 24; Gaz. vol. 182; p. 873.
Cusick, John, Sharon, Pa. Rail-joint. No. 1,016,674; Feb. 6; Sp. p. 1010; Gaz. vol. 175; p. 153.
Custer, Arnold S., Cincinnati, Ohio, assignor to Herring-Hall-Marvin Safe Company, New York, N. Y. Safe or vault. No. 1,035,164; Aug. 13; Gaz. vol. 181; p. 285.
Custer, Edgar A., assignor to The Custer Sandless Casting Company, Philadelphia, Pa. Non-annealed car-wheel. No. 1,022,723; Apr. 9; Sp. p. 2092; Gaz. vol. 177; p. 359.
Custer, Edgar A., assignor to The Custer Sandless Casting Company, Philadelphia, Pa. Producing castings having chilled and machinable surfaces in permanent molds. No. 1,022,724; Apr. 9; Sp. p. 2093; Gaz. vol. 177; p. 359.
Custer, Edgar A., assignor to The Custer Sandless Casting Company, Philadelphia, Pa. Casting steel. No. 1,042,092; Oct. 22; Gaz. vol. 183; p. 919.
Custer, Edgar A., assignor to The Custer Sandless Casting Company, Philadelphia, Pa. Producing castings having relatively large section in permanent molds. No. 1,043,404; Nov. 5; Gaz. vol. 184; p. 128.
Custer, George M., Mattoon, Ill. Wrench. No. 1,022,534; Apr. 9; Sp. p. 1646; Gaz. vol. 177; p. 293.
Custer, John S., assignor to The Westinghouse Air Brake Company, Pittsburgh, Pa. Pressure-retaining valve. No. 1,025,381; May 7; Sp. p. 618; Gaz. vol. 178; p. 96.
Custer, Joseph M., Copper Hill, Va. Locking-lever. No. 1,043,206; Nov. 5; Gaz. vol. 184; p. 57.
Custer, Levitt L., Dayton, Ohio. Indicator for indicating the ascending and descending movements of aerial vehicles. No. 1,023,132; Apr. 16; Sp. p. 2979; Gaz. vol. 177; p. 536.
Custer, Peter A., Woodriver, assignor of one-tenth to E. G. Meriwether, Alton, and four-tenths to M. Heller, Granite City, Ill. Seed-planter. No. 1,039,105; Sept. 24; Gaz. vol. 182; p. 736.
Custer Sandless Casting Company, The. (See Custer, Edgar A., assignor.)
Cuthbert, John W., Bay City, Mich. Rail-fastening. No. 1,025,053; Apr. 30; Sp. p. 7093; Gaz. vol. 177; p. 1247.
Cuthbertson, William, Chicago, Ill. Brush. No. 1,044,996; Nov. 19; Gaz. vol. 184; p. 740.
Cutler, A. Leon. (See Clapp, Albert L., assignor.)
Cutler, Burnam B., assignor of one-half to D. G. Hadsell, Kansas City, Mo. Screen or storm-window hanger. No. 1,014,621; Jan. 9; Sp. p. 3359; Gaz. vol. 174; p. 556.
Cutler, David, Rumford, Me. Paper bag. No. 1,015,007; Jan. 16; Sp. p. 4284; Gaz. vol. 174; p. 720.
Cutler-Hammer Manufacturing Company, The. (See Henderson, Clark T., assignor.)
Cutler-Hammer Manufacturing Company, The. (See Mudge, Charles A., assignor.)
Cutler-Hammer Mfg. Co., The. (See Barnum, Thomas E., assignor.)

Alphabetical list of patentees—Continued.

Cutler-Hammer Mfg. Co., The. (See Horton, Albert J., assignor.)
Cutler-Hammer Mfg. Co., The. (See Janette, John T., assignor.)
Cutler-Hammer Mfg. Co., The. (See Klein, Charles J., assignor.)
Cutler-Hammer Mfg. Co., The. (See Reisbach, Gustave B., assignor.)
Cutler-Hammer Mfg. Co., The. (See Tatum, Lewis L., assignor.)
Cutler-Hammer Mfg. Co., The. (See Wiegand, Henry J., assignor.)
Cutler, Henry H., Milwaukee, Wis. Automatic self-starter for motors. No. 1,043,207; Nov. 5; Gaz. vol. 184; p. 58.
Cutler, Isabel M. (See Cutler and Leonard, assignors.)
Cutler, Jerry N., Tacoma, Wash. Elastic connecting device. No. 1,026,566; May 14; Sp. p. 3234; Gaz. vol. 178; p. 534.
Cutler, Judson N., Myrtle Creek, Oreg. Safety-snap. No. 1,025,787; May 7; Sp. p. 1484; Gaz. vol. 178; p. 235.
Cutler Mail Chute Company. (See Smith and Kumming, assignors.)
Cutler, Ralph D., and M. F. Owens, assignors to The Hartford Electric Light Company, Hartford, Conn. Electrical distribution. No. 1,014,049; Jan. 9; Sp. p. 2154; Gaz. vol. 174; p. 360.
Cutler, William C. (See Leonard and Cutler.)
Cutler, William C., Sawtelle, Cal. Fountain-brush. No. 1,029,173; June 11; Sp. p. 2392; Gaz. vol. 179; p. 408.
Cutler, William C., and G. I. Leonard, Los Angeles, assignors to I. M. Cutler, Sawtelle, Cal. Advertising device. No. 1,026,242; May 14; Sp. p. 2544; Gaz. vol. 178; p. 426.
Cutter, Charles H. (See Roby and Cutter.)
Cutter Electrical and Manufacturing Company, The. (See Scott, William M., assignor.)
Cutter Electrical and Manufacturing Company, The. (See Wyatt and Campion, assignors.)
Cutter, James H. (See Schneider, Charles C., assignor.)
Cutting, Samuel B., and E. Marshall, assignors to The Salts Textile Manufacturing Company, Bridgeport, Conn. Warp stop-motion for pile-fabric looms. No. 1,019,026; Mar. 5; Sp. p. 22; Gaz. vol. 176; p. 7.
Cyclone Woven Wire Fence Company, The. (See Lane, Cornelius J., assignor.)
Cyfers, Alvin F., Buena Vista, Ohio. Check-hook. No. 1,048,048; Dec. 24; Gaz. vol. 185; p. 879.
Cygon, Joseph R., Annapolis, Md. Shoe-dauber. No. 1,044,355; Nov. 12; Gaz. vol. 184; p. 488.
Cypher, James L., Connellsville, Pa. Sheave. No. 1,036,459; Aug. 20; Gaz. vol. 181; p. 769.
Cyphers Incubator Company. (See Adair, Charles E., assignor.)
Czabor, Henry, Cleveland, Ohio. Spring-mounting for curtain and shade rollers. No. 1,028,995; June 11; Sp. p. 2022; Gaz. vol. 179; p. 347.
Czaran, Otto, Glendale, N. Y. Mowing-machine. No. 1,027,643; May 28; Sp. p. 5581; Gaz. vol. 178; p. 976.
Czaran, Otto, New York, N. Y. Motor-plow. No. 1,032,118; July 9; Gaz. vol. 180; p. 479.
Czél, James, Bridgeport, Conn. Ice-creeper. No. 1,031,426; July 2; Gaz. vol. 180; p. 202.
Czerny, Joseph, New York, N. Y. Chandelier. No. 1,032,660; July 16; Gaz. vol. 180; p. 709.
Czimeg, Georg, Gratz, Austria-Hungary. Cross-joint between flat iron bars. No. 1,022,387; Apr. 2; Sp. p. 1317; Gaz. vol. 177; p. 213.
D. Saunders' Sons. (See Linehan, John F., assignor.)
D. D. Demarest Co. (See Caster, William H., assignor.)
D. H. Burrell & Co. (See Hoyt, Matthew L., assignor.)
D. H. Burrell & Co. (See Klein, Daniel, assignor.)
D. H. Burrell & Company. (See Feldmeier and Dalzell, assignors.)
D. H. Burrell & Company. (See Feldmeier and Miner, assignors.)
D. H. Burrell & Company. (See Gillies, Alexander, assignor.)
D. H. Burrell & Company. (See Lane, Frederic A., assignor.)
D. P. Company. (See Gamage, Harry C., assignor.)
D. & S. Airless Tire Company. (See Doty and Show, assignors.) (Reissue.)
D. T. Williams Valve Company, The. (See Swanberg, Floyd L., assignor.)
D'Artenay, Adolph P., Dixon, Cal. Land-grader. No. 1,013,354; Jan. 2; Sp. p. 589; Gaz. vol. 174; p. 93.
D'Eaubonne, Etienne. (See Sabonadier and D'Eaubonne.)
D'Equevilley-Montjustin, Raymond, Kiel, Germany. Soda-boiler steam-power plant. No. 1,029,180; June 11; Sp. p. 2402; Gaz. vol. 179; p. 409.
D'Esposito, Joshua, Oakmont, Pa. Railway-terminal. No. 1,022,659; Apr. 9; Sp. p. 1919; Gaz. vol. 177; p. 334.
D'Espujols, Robert L., Alfort, France. Hydrocarbon-burner. No. 1,023,422; Apr. 16; Sp. p. 3559; Gaz. vol. 177; p. 634.
D'Homergue, John B., Pittsburgh, Pa. Piano-plate. No. 1,035,192; Aug. 13; Gaz. vol. 181; p. 295.
D'Ivry, Jean B. M. P. H. R., Paris, France. Electromagnetic receiving apparatus. No. 1,020,402; Mar. 19; Sp. p. 2952; Gaz. vol. 176; p. 536.
D'Ubaldo, Francesco, assignor to J. Rumore, New York, N. Y. Magazine-gun. No. 1,031,428; July 2; Gaz. vol. 180; p. 203.
D'Urso, Vito E., New York, N. Y. Sound-amplifier for phonographs. (Reissue.) No. 13,378; Mar. 5; Sp. p. 1597; Gaz. vol. 176; p. 249.
D'Urso, Vito E., New York, N. Y. Flying-machine. No. 1,028,865; June 11; Sp. p. 1719; Gaz. vol. 179; p. 301.
Da Costa, F. M. (See Alexander, Jesse, assignor.)
Da Paz, Thomas R., and A. M. C. de Faria e Maya, San Miguel, Azores. Means for maintaining the lateral equilibrium of aeroplanes. No. 1,047,759; Dec. 17; Gaz. vol. 185; p. 755.
Daae, Reinhardt, Pittsburgh, Pa. Gas-producer. No. 1,034,695; Aug. 6; Gaz. vol. 181; p. 98.
Daam, Gerrit von, Scranton, Pa. Mine-carriage and elevator automatic safety-brake. No. 1,016,114; Jan. 30; Sp. p. 6637; Gaz. vol. 174; p. 1154.
Dabadie, John L., assignor of one-half to C. Boitano, Stockton, Cal. Mining-drill chuck. No. 1,044,029; Nov. 12; Gaz. vol. 184; p. 376.
Dabelstein, Charles, Detroit, Mich. Tire-guard. No. 1,022,658; Apr. 9; Sp. p. 1917; Gaz. vol. 177; p. 334.
Dade, John B., Frankfort, N. Y. Vise. No. 1,020,192; Mar. 12; Sp. p. 2534; Gaz. vol. 176; p. 430.
Daehler, Alfred H., Los Angeles, Cal. Motor-controlling mechanism for self-propelled vehicles. No. 1,020,889; Mar. 19; Sp. p. 4006; Gaz. vol. 176; p. 698.
Daemen-Schmid, Heinrich, Zurich, Switzerland. Calculating-machine. No. 1,015,842; Jan. 30; Sp. p. 6050; Gaz. vol. 174; p. 1056.
Daemen-Schmid, Heinrich, Oerlikon, near Zürich, Switzerland. Computing device. No. 1,036,575; Aug. 27; Gaz. vol. 181; p. 843.
Daeuble, Frederick W., Buechel, Ky. Reversing frictional driving mechanism. No. 1,013,989; Jan. 9; Sp. p. 2013; Gaz. vol. 174; p. 340.
Daft, Leo, Rutherford, N. J., assignor to Electro-Chemical Rubber & Manufacturing Company. Attaching rubber to metals. No. 1,036,576; Aug. 27; Gaz. vol. 181; p. 843.
Daft, Leo, Rutherford, N. J., assignor to Electro-Chemical Rubber & Manufacturing Company. Electroplating. No. 1,042,533; Oct. 29; Gaz. vol. 183; p. 1096.
Dagelen, Frank J., Milwaukee, Wis. Mail-box. No. 1,018,810; Feb. 27; Sp. p. 5737; Gaz. vol. 175; p. 990.
Dagenais, Elie, Chicago, Ill. Saw-holder or the like. No. 1,043,405; Nov. 5; Gaz. vol. 184; p. 128.
Daggett & Curry Company. (See Daggett, Herbert M., assignor.)
Daggett, Harry M., Oakland, Cal. Oil-burner. No. 1,029,174; June 11; Sp. p. 2393; Gaz. vol. 179; p. 408.
Daggett, Herbert M., Newton, assignor to Daggett & Curry Company, Waltham, Mass. Suspension device for lamp-shades. No. 1,036,194; Aug. 20; Gaz. vol. 181; p. 678.
Daggett, Homer M., Jr., Mount Vernon, N. Y., and L. J. Stilling, Newark, N. J., assignors to Janus Vacuum Goods Company. Vacuum-bottle support. No. 1,031,692; July 9; Gaz. vol. 180; p. 335.
Daggett, William R., assignor of one-half to E. B. Stewart, Seattle, Wash. Trolley-guard. No. 1,041,437; Oct. 15; Gaz vol. 183; p. 661.
Dagnall, Walter, Fairfield, Hampton Wick, England. Polishing-cloth. No. 1,025,382; May 7; Sp. p. 619; Gaz. vol. 178; p. 96.
Dahl, Benjamin, Minneapolis, Minn. Rotary engine. No. 1,014,378; Jan. 9; Sp. p. 2876; Gaz. vol. 174; p. 476.
Dahl, Benjamin, Minneapolis, Minn. Means for mounting punctureless tires on wheel-rims. No. 1,043,208; Nov. 5; Gaz. vol. 184; p. 58.
Dahl, Harry G., assignor to Maxwell-Briscoe Motor Company, Tarrytown, N. Y. Gas-engine. No. 1,020,081; Mar. 12; Sp. p. 2281; Gaz. vol. 176; p. 393.
Dahl, Jacob, Columbus, Ohio, assignor of one-third to M. Dahl and one-third to R. W. Poelma, Chicago, Ill. Weed-puller. No. 1,024,500; Apr. 30; Sp. p. 5904; Gaz. vol. 177; p. 1055.
Dahl-Jensen, Jens P., assignor to Aktieselskabet Bing & Gröndahls Parcellaensfabrik, Copenhagen, Denmark. Process and apparatus for making insulators. No. 1,018,484; Feb. 27; Sp. p. 4992; Gaz. vol. 175; p. 878.
Dahl, Knut M., assignor to Union Iron Works Co., San Francisco, Cal. Fuel-oil strainer. No. 1,042,203; Oct. 22; Gaz. vol. 183; p. 954.
Dahl, Martin, *et al.* (See Dahl, Jacob, assignor.)
Dahl, Valentine, assignor to American Bridge Company, New York, N. Y. Hose-coupling. No. 1,043,806; Nov. 12; Gaz. vol. 184; p. 298.
Dahle, Carl U., Fredriksvaern, assignor to Nyegaard & Co., Christiania, Norway. Producing a soluble, digestible, and easily-assimilated albumin. No. 1,048,949; Dec. 31; Gaz. vol. 185; p. 1226.
Dahle, Walter, Birkenwerder, near Berlin, Germany. Preserving fresh meat and fish. No. 1,032,885; July 16; Gaz. vol. 180; p. 785.
Dahlenburg, Henry. (See Martin and Dahlenburg.)
Dahlgren, Ulrik H., Södertelje, assignor to K. R. Westberg, Stockholm, Sweden. Driving device for milking-machines. No. 1,046,446; Dec. 10; Gaz. vol. 185; p. 263.

Alphabetical list of patentees—Continued.

Dahlquist, Ernest N. O., Chicago, Ill. Bending-tool. No. 1,041,037; Oct. 15; Gaz. vol. 183; p. 526.
Dahlquist, John, and L. Lucas, Jamestown, N. Y. Cover for metallic receptacles. No. 1,031,624; July 2; Gaz. vol. 180; p. 268.
Dahlstrom, Adolph, Amery, Wis. Bag-holder. No. 1,027,464; May 28; Sp. p. 5226; Gaz. vol. 178; p. 916.
Dahman, Richard, Chicago, Ill. Self-cleaning nozzle. No. 1,040,899; Oct. 8; Gaz. vol. 183; p. 446.
Dahn, John, North Fitzroy, Victoria, Australia. Feed mechanism for ratchet-braces. No. 1,036,577; Aug. 27; Gaz. vol. 181; p. 843.
Dailey, Jacob W., Forestville, N. Y. Handle. No. 1,021,575; Mar. 26; Sp. p. 5480; Gaz. vol. 176; p. 984.
Dailey, Jesse V., assignor to The Michigan Stove Company, Detroit, Mich. Warm-air furnace. No. 1,042,650; Oct. 29; Gaz. vol. 183; p. 1137.
Dailey, John S., *et al.* (See Smith, Harlin J., assignor.)
Daimler Motorengesellschaft. (See Daimler, Paul, assignor.)
Daimler Motorengesellschaft. (See Moewes and Vischer, assignors.)
Daimler, Paul, assignor to Daimler Motorengesellschaft, Untertürkheim, Germany. Lubricating system. No. 1,013,644; Jan. 2; Sp. p. 1201; Gaz. vol. 174; p. 192.
Daimler, Paul, assignor to Daimler Motoren-Gesellschaft, Untertürkheim, near Stuttgart, Germany. Clutch-actuating mechanism. No. 1,039,495; Sept. 24; Gaz. vol. 182; p. 873.
Daimler, Paul, assignor to Daimler Motorengesellschaft, Untertürkheim-Stuttgart, Germany. Hydrocarbon-motor. No. 1,046,988; Dec. 10; Gaz. vol. 185; p. 450.
Daimler, Paul, Cannstatt, assignor to Daimler Motoren Gesellschaft, Unterturkheim, Germany. Explosion-motor. No. 1,016,675; Feb. 6; Sp. p. 1011; Gaz. vol. 175; p. 153.
Daimler, Paul, Cannstatt, assignor to Daimler Motoren-Gesellschaft, Stuttgart, Germany. Change-speed gearing. No. 1,023,553; Apr. 16; Sp. p. 3819; Gaz. vol. 177; p. 674.
Daimler, Paul, Cannstatt, assignor to Daimler Motorengesellschaft, Stuttgart, Germany. Clutch-actuating mechanism. No. 1,045,527; Nov. 26; Gaz. vol. 184; p. 956.
Dain, Joseph, Ottumwa, Iowa. Gearing. No. 1,028,441; June 4; Sp. p. 836; Gaz. vol. 179; p. 126.
Dain, Joseph, Ottumwa, Iowa. Gearing. No. 1,028,442; June 4; Sp. p. 842; Gaz. vol. 179; p. 126.
Dain, Joseph, Ottumwa, Iowa. Gearing. No. 1,028,551; June 4; Sp. p. 1057; Gaz. vol. 179; p. 161.
Dain, Joseph, Ottumwa, Iowa. Hay-press. No. 1,045,125; Nov. 26; Gaz. vol. 184; p. 813.
Dain Manufacturing Company of Iowa. (See Sperry, Herbert B., asignor.)
Dainty, Joseph A. (See Gehrig, William F., assignor.)
Dairy Machinery and Construction Company. (See Willmann, Joseph, assignor.)
Dairy Oils Extracting Company. (See Fornander, Alfred, assignor.)
Dairymen's Manufacturing Company. (See Peacock, Edward M., assignor.)
Dairymen's Supply Co. (See Steer, Alfred G., assignor.)
Daisy Manufacturing Company. (See Hawthorne, William E., assignor.)
Dake, Charles W., Grand Rapids, Mich., assignor to Pyle-National Electric Headlight Company, Chicago, Ill. Machine for making buckets for turbines. No. 1,035,545; Aug. 13; Gaz. vol. 181; p. 418.
Dake, Charles W., assignor to Pyle National Electric Headlight Company, Chicago, Ill. Steam-turbine. No. 1,038,534; Sept. 17; Gaz. vol. 182; p. 525.
Dake, John F., Rochester, N. Y., assignor of one-half to T. M. House, Richmond, Va. Force-feed lubricator. No. 1,045,563; Dec. 10; Gaz. vol. 185; p. 306.
Dake, Wilford W., Muskegon, Mich., assignor to Pyle-National Electric Headlight Company, Chicago, Ill. Elastic-fluid turbine. No. 1,035,543; Aug. 13; Gaz. vol. 181; p. 417.
Dake, Wilford W., Muskegon, Mich., assignor to Pyle-National Electric Headlight Company, Chicago, Ill. Elastic-fluid turbine. No. 1,035,544; Aug. 13; Gaz. vol. 181; p. 418.
Dake, Wilford W., Muskegon, Mich., assignor to Pyle-National Electric Headlight Company, Chicago, Ill. Elastic-fluid turbine. No. 1,035,820; Aug. 13; Gaz. vol. 181; p. 509.
Dalboni, Carlo, and J. Macario, New York, N. Y. Automatic device for turning music. No. 1,032,817; July 16; Gaz. vol. 180; p. 763.
Dale, Albert C., Longbeach, assignor of one-half to E. H. Barmore, Los Angeles, Cal. Primer for sewer-seals. No. 1,016,676; Feb. 6; Sp. p. 1013; Gaz. vol. 175; p. 154.
Dale, Andrew, Funkley, Minn. Berry-picker. No. 1,038,302; Sept. 10; Gaz. vol. 182; p. 411.
Dale, John C., Manhattan, Kans. Rail-brake. No. 1,021,507; Mar. 26; Sp. p. 5342; Gaz. vol. 176; p. 962.
Dale, John H. (See Trood, Samuel, assignor.)
Dale, John H., Newark, N. J. Piano-stool. No. 1,019,768; Mar. 12; Sp. p. 1653; Gaz. vol. 176; p. 288.
Dale, Thomas M. (See Councill, Tharpe, and Dale.)
Dale, William B., Chicago, Ill., assignor to Street & Kent Mfg. Co. Self-packing connection for pipes or the like. No. 1,024,560; Apr. 30; Sp. p. 6078; Gaz. vol. 177; p. 1076.
Dalén, Gustaf, assignor to Aktiebolaget Gasaccumulator, Stockholm, Sweden. Device for lighting and extinguishing gas-flames from a distant point. No. 1,041,038; Oct. 15; Gaz. vol. 183; p. 527.
Dalén, Gustaf, Stockholm, Sweden, assignor to American Gasaccumulator Company, Philadelphia, Pa. Automatic valve. No. 1,041,748; Oct. 22; Gaz. vol. 183; p. 800.
Dalén, Gustaf, and S. A. Eskilson, Stockholm, Sweden, assignors, by mesne assignments, to American Gasaccumulator Company. Lantern. No. 1,041,438; Oct. 15; Gaz. vol. 183; p. 662.
Dalfond, Octavien, Fall River, Mass., assignor to The Standard Equipment Company. Friction let-off. No. 1,024,064; Apr. 23; Sp. p. 4915; Gaz. vol. 177; p. 871.
Dalfond, Octavien, Fall River, Mass., assignor to The Standard Equipment Company. Compound lever. No. 1,035,324; Aug. 13; Gaz. vol. 181; p. 342.
Daliet, Casper O. (See Wallace, William S., assignor.)
Dallas, Martha C., Kist, Oreg. Garment-fastener. No. 1,015,143; Jan. 16; Sp. p. 4541; Gaz. vol. 174; p. 766.
Dallemagne, Henry, Clichy la Garenne, assignor to Compagnie d'Entreprises de Lavage de Minerais, Paris, France. Apparatus for the separation of ores. No. 1,035,864; Aug. 20; Gaz. vol. 181; p. 562.
Dallemagne, Jean-Baptiste V., Paris, France. Spark-extinguisher. No. 1,035,423; Aug. 13; Gaz. vol. 181; p. 377.
Dallenbach, Michael, Ridgway, Pa. Saw-gage. No. 1,019,429; Mar. 5; Sp. p. 984; Gaz. vol. 176; p. 144.
Dalley, Henry A., Ardmore, Pa. Shock-absorber for vehicles. No. 1,046,989; Dec. 10; Gaz. vol. 185; p. 451.
Dally, Wendell P., Hope, Ark. Nut-lock. No. 1,029,670; June 18; Sp. p. 3472; Gaz. vol. 179; p. 615.
Dalrymple, David L., Newark, N. J. Pressure-regulating valve. No. 1,013,645; Jan. 2; Sp. p. 1204; Gaz. vol. 174; p. 192.
Dalton Adding Machine Company. (See Clayton, William H., assignor.)
Dalton Adding Machine Company. (See Dalton and Magnus, assignors.)
Dalton Adding Machine Company. (See Raber, Joseph, assignor.)
Dalton, Gilbert, Oglesby, Tex. Quilting-frame. No. 1,014,130; Jan. 9; Sp. p. 2324; Gaz. vol. 174; p. 388.
Dalton, James L., and J. Magnus, Poplar Bluff, assignors to Dalton Adding Machine Company, St. Louis, Mo. Adding and recording machine. No. 1,049,057; Dec. 31; Gaz. vol. 185; p. 1264.
Dalton, John T., assignor to The Automatic Bag Stringer Company, Baltimore, Md. Bag-stringing machine. No. 1,036,973; Aug. 27; Gaz. vol. 181; p. 974.
Dalton, John T., and J. C. Daneker, Baltimore, Md. Knot-tier. No. 1,041,039; Oct. 15; Gaz. vol. 183; p. 527.
Dalton, Thomas J., Chicago, Ill. Shoe-cleaning device. No. 1,019,769; Mar. 12; Sp. p. 1654; Gaz. vol. 176; p. 288.
Dalton, Thomas J., assignor of one-half to H. F. Lundin, Chicago, Ill. Reversing mechanism. No. 1,020,193; Mar. 12; Sp. p. 2537; Gaz. vol. 176; p. 430.
Dalton, Van Broadus, Cincinnati, Ohio. Dental pivot-crown remover. No. 1,041,601; Oct. 15; Gaz. vol. 183; p. 714.
Dalton, William, Schenectady, N. Y. Track-scale. No. 1,028,194; June 4; Sp. p. 306; Gaz. vol. 179; p. 40.
Dalton, William, Schenectady, N. Y. Steam-boiler superheater. No. 1,031,693; July 9; Gaz. vol. 180; p. 335.
Dalton, William, Schenectady, N. Y. Wheel for vehicles. No. 1,040,157; Oct. 1; Gaz. vol. 183; p. 163.
Dalton, William A., Patton, Mo. Fertilizer-distributing attachment. No. 1,040,642; Oct. 8; Gaz. vol. 183; p. 363.
Daly, Hatch and Buschane. (See Daly, William O., assignor.)
Daly, Michael, Maryville, Ill. Combination-check. No. 1,028,684; June 4; Sp. p. 1329; Gaz. vol. 179; p. 205.
Daly, William J., Mason City, Iowa. Sink-frame bracket. No. 1,047,757; Dec. 17; Gaz. vol. 185; p. 754.
Daly, William O., Mobile, Ala. Turpentine-apron. No. 1,040,900; Oct. 8; Gaz. vol. 183; p. 446.
Daly, William O., assignor to Daly, Hatch and Buschane, Mobile, Ala. Blind-slat tip. No. 1,015,144; Jan. 16; Sp. p. 4541; Gaz. vol. 174; p. 766.
Daly, William O., and L. Lerio, Mobile, Ala. Turpentine-apron. No. 1,043,676; Nov. 5; Gaz. vol. 184; p. 224.
Daly, William O., and L. Lerio, Mobile, Ala. Pan-making machine. No. 1,044,356; Nov. 12; Gaz. vol. 184; p. 488.
Daly, William O., and L. Lerio, Mobile, Ala. Turpentine-cup. No. 1,045,682; Nov. 26; Gaz. vol. 184; p. 1011.
Dalzell, Charles B. (See Feldmeier and Dalzell.)
Dalzell, William A. B., and A. C. Scroggins, assignors to Fostoria Glass Company, Moundsville, W. Va. Electric table-lamp. No. 1,032,119; July 9; Gaz. vol. 180; p. 479.
Dam, Andrew C., New York, assignor of one-half to E. C. De Kay, Albany, N. Y. Marine vessel. No. 1,047,758; Dec. 17; Gaz. vol. 185; p. 754.

Damascus Brake Beam Co., The. (See Pugh, Edward D., assignor.)
Dambach, Margaret S., Beaver Falls, Pa. Smoke-bell. No. 1,027,186; May 21; Sp. p. 4660; Gaz. vol. 178; p. 783.
Dambino, Willie D., Handsboro, Miss. Draw-bar. No. 1,027,323; May 21; Sp. p. 4939; Gaz. vol. 178; p. 831.
Dame, Charles V., Lanark, Ill. Combined ash pan and sifter. No. 1,046,990; Dec. 10; Gaz. vol. 185; p. 451.
Dame, Walter R. (See McCarty, Eugene J., assignor.)
Damm, Ernst. (See Benrath, Damm, and Stephani.)
Damon, Frederick H., *et al.* (See Carnochan, John W., assignor.)
Damoude, Richard R., Plainview, Minn. Weed-digger. No. 1,036,578; Aug. 27; Gaz. vol. 181; p. 844.
Damrow, Edward C., Fond du Lac, Wis. Cheese-hoop. No. 1,031,532; July 2; Gaz. vol. 180; p. 237.
Dan, Long, Portland, Oreg. Aeroplane. No. 1,044,997; Nov. 19; Gaz. vol. 184; p. 741.
Dana, Herbert S., Tunkhannock, Pa. Pen-extractor. No. 1,045,775; Nov. 26; Gaz. vol. 184; p. 1043.
Dana, William H., assignor to L. Rauh, Dayton, Ohio. Voting-machine. No. 1,016,553; Feb. 6; Sp. p. 754; Gaz. vol. 175; p. 111.
Danat, Wilmer E., Buffalo, N. Y. Closure for containers. No. 1,016,739; Feb. 6; Sp. p. 1137; Gaz. vol. 175; p. 175.
Danberry, Edward, assignor of one-third to H. Blackwell, Wheatland, Ind. Safety attachment for elevators. No. 1,015,726; Jan. 23; Sp. p. 5807; Gaz. vol. 174; p. 990.
Danckwardt, Paul, Galena, S. D. Power-producing process. No. 1,023,819; Apr. 23; Sp. p. 4356; Gaz. vol. 177; p. 787.
Daneker, John C. (See Dalton and Daneker.)
Danenhower, Elmer U., Orange, N. J. Cover for wash-trays, &c. No. 1,029,175; June 11; Sp. p. 2394; Gaz. vol. 179; p. 408.
Danenhower, William J., Los Angeles, Cal. Garment-pressing machine. No. 1,022,535; Apr. 9; Sp. p. 1647; Gaz. vol. 177; p. 293.
Dangel, John, Chicago, and B. R. Benjamin, Oak Park, Ill., assignors to International Harvester Company. Butt-adjuster for grain-binders. No. 1,041,968; Oct. 22; Gaz. vol. 183; p. 878.
Daniček, Wladimir, and C. Černovský, Prague, Austria-Hungary, and G. Kloth, Treptow, near Berlin, Germany, assignors to Ever Ready Metallindustrie G. m. b. H., Berlin, Germany. Lighting device. No. 1,045,683; Nov. 26; Gaz. vol. 184; p. 1011.
Daniel, Charles, Los Angeles, Cal. Fishing-tool. No. 1,016,816; Feb. 6; Sp. p. 1297; Gaz. vol. 175; p. 199.
Daniel, Charles A. (See Neff, Frank R., assignor.)
Daniel Green Felt Shoe Company. (See Franz, Paul H., assignor.)
Daniel, Joseph A., Comanche, Tex. Oil-burner. No. 1,015,997; Jan. 30; Sp. p. 6388; Gaz. vol. 174; p. 1111.
Daniel, Leonard. (See Whisler, Isma S., assignor.)
Daniel, Percy G. E., Clevedon, and C. A. H. Bullock, London, England. Machine for supplying and affixing stamps. No. 1,029,671; June 18; Sp. p. 3473; Gaz. vol. 179; p. 615.
Daniel, Percy G. E., Clevedon, and C. A. H. Bullock, London, England. Machine for applying and affixing stamps and the like. No. 1,029,672; June 18; Sp. p. 3478; Gaz. vol. 179; p. 616.
Daniel, William B. (See Johnston, William B., assignor.)
Daniel, William J., Drew, Miss. Cultivator. No. 1,036,460; Aug. 20; Gaz. vol. 181; p. 770.
Danielli, Salvatore, Milan, Italy. Apparatus for instantaneous distribution of sawdust or disinfecting-powders, with a tiltable dust-bin and an automatic closing device for the cover. No. 1,018,410; Feb. 27; Sp. p. 4828; Gaz. vol. 175; p. 854.
Daniels, Adelbert W., Morrison, Ill. Corn-plow. No. 1,027,998; May 28; Sp. p. 6387; Gaz. vol. 178; p. 1095.
Daniels, Daniel, and L. P. Burgess, Los Angeles, Cal. Stuffing-box for working barrels of well-pumps. No. 1,034,696; Aug. 6; Gaz. vol. 181; p. 98.
Daniels, Daniel, and L. P. Burgess, Los Angeles, Cal. Expanding sleeve for standing valves. No. 1,039,496; Sept. 24; Gaz. vol. 182; p. 874.
Daniels, Fred H., Worcester, Mass., assignor to The American Steel and Wire Company of New Jersey, Hoboken, N. J. Saving heat. No. 1,028,685; June 4; Sp. p. 1330; Gaz. vol. 179; p. 206.
Daniels, Fred H., Worcester, Mass., assignor to The American Steel & Wire Company of New Jersey, Hoboken, N. J. Rod-mill. No. 1,029,673; June 18; Sp. p. 3480; Gaz. vol. 179; p. 617.
Daniels, Fred H., and A. F. Backlin, Worcester, Mass., assignors to The American Steel & Wire Company of New Jersey, Hoboken, N. J. Apparatus for handling metal bars. No. 1,021,582; Mar. 26; Sp. p. 5490; Gaz. vol. 176; p. 986.
Daniels, Henry J., Albert Park, Victoria, Australia. Machine for harvesting potatoes and like root crops. No. 1,033,675; July 23; Gaz. vol. 180; p. 1087.
Daniels, James E., Monroe, Cal. Seam-ripper. No. 1,021,863; Apr. 2; Sp. p. 244; Gaz. vol. 177; p. 40.
Daniels, Johann J., New Rochelle, N. Y. Airship. No. 1,037,450; Sept. 3; Gaz. vol. 182; p. 94.
Daniels, John K., St. Paul, Minn. Wrench. No. 1,048,298; Dec. 24; Gaz. vol. 185; p. 962.
Daniels, Leanna V., Elkton, S. D. Flour-sifter. No. 1,036,974; Aug. 27; Gaz. vol. 181; p. 975.
Daniels, Louis W., Manistee, Mich. Gage-cock. No. 1,039,652; Sept. 24; Gaz. vol. 182; p. 929.
Daniels, Thomas M., Chicago, Ill. Hat-pin. No. 1,027,375; May 21; Sp. p. 5044; Gaz. vol. 178; p. 849.
Daniels, Vincent J., New York, N. Y. Door or window lock. No. 1,042,329; Oct. 22; Gaz. vol. 183; p. 996.
Daniels, W. H. (See Dempsey, James T., assignor.)
Daniels, Walter A. (See Palmer, El Ray G., assignor.)
Daniels, William S., *et al.* (See Richards, John J., Jr., assignor.)
Danielsen, Wilhelm G., Independence, Mo. Plow. No. 1,014,379; Jan 9; Sp. p. 2879; Gaz. vol. 174; p. 476.
Danielson, Edven. (See Helvig and Danielson.)
Danielson, Gustave F., Youngstown, Ohio. Truck. No. 1,023,997; Apr. 23; Sp. p. 4777; Gaz. vol. 177; p. 848.
Danielson, Gustave F., Youngstown, Ohio. Whiffletree. No. 1,029,597; June 18; Sp. p. 3313; Gaz. vol. 179; p. 589.
Danielson, John G. E., Omaha, Nebr. Airship. No. 1,037,136; Aug. 27; Gaz. vol. 181; p. 1028.
Danilevsky, Alexander, St. Petersburg, Russia. Preserving fish. No. 1,046,991; Dec. 10; Gaz. vol. 185; p. 451.
Danley, Samuel T. (See Sampson and Danley.)
Danner, Frank, St. Louis, Mo. Lock. No. 1,041,749; Oct. 22; Gaz. vol. 183; p. 801.
Danner, Ralph H., Los Angeles, Cal. Rotary pump. No. 1,030,166; June 18; Sp. p. 4551; Gaz. vol. 179; p. 786.
Dannheiser, Joseph M., New York, N. Y. Display device. No. 1,016,677; Feb. 6; Sp. p. 1014; Gaz. vol. 175; p. 154.
Danon, Jean, Le Raincy, France. Apparatus for opening oysters. No. 1,018,169; Feb. 20; Sp. p. 4311; Gaz. vol. 175; p. 740.
Danquard, Thomas, New York, N. Y., assignor to Auto Pneumatic Action Co. Pumping device. No. 1,017,084; Feb. 13; Sp. p. 1919; Gaz. vol. 175; p. 329.
Danver, Andrew C., assignor of one-half to H. J. Flint, Providence, R. I. Packing. No. 1,019,607; Mar. 5; Sp. p. 1337; Gaz. vol. 176; p. 202.
Danz, Jacob, 2d, St. Paul, Minn. Pail. No. 1,031,053; July 2; Gaz. vol. 180; p. 73.
Danzenbaker, Francis, assignor to R. Johnson, Norfolk, Va. Beehive. No. 1,048,950; Dec. 31; Gaz. vol. 185; p. 1226.
Danziger, Benno, Mannheim, Germany, assignor to N. H. Heyman, New York, N. Y. Filter. No. 1,029,915; June 18; Sp. p. 4042; Gaz. vol. 179; p. 702.
Darby, Clifford T., Detroit, Mich., assignor to S. A. Griggs, trustee, Walkerville, Canada. Gearing. No. 1,026,736; May 21; Sp. p. 3622; Gaz. vol. 178; p. 629.
Darby, Thomas C., Wickford, England. Implement for cultivating or plowing land. No. 1,038,858; Sept. 17; Gaz. vol. 182; p. 639.
Darby, Willard C. (See Miller, Royal R., assignor.)
Darbyson, Allen B., Philipsburg, Quebec, Canada. Straight-edge guide. No. 1,043,905; Nov. 12; Gaz. vol. 184; p. 332.
Darier, Georges. (See Guye, Darier, and Van Vloten.)
Darker, Alfred H., Blackheath, England. Secondary battery. No. 1,039,907; Oct. 1; Gaz. vol. 183; p. 80.
Darker, Alfred H., Blackheath, assignor to J. Stone & Company Limited, Deptford, England. Suspension device for dynamo-electric machines. No. 1,045,818; Dec. 3; Gaz. vol. 185; p. 8.
Darley, John W., Jr., Baltimore, Md., assignor to H. A. Hollister, Santa Barbara, Cal. Mechanical movement. No. 1,020,267; Mar. 12; Sp. p. 2676; Gaz. vol. 176; p. 455.
Darley, John W., Jr., Baltimore, Md., assignor to H. A. Hogel, New York, N. Y. Well-pumping apparatus. No. 1,042,204; Oct. 22; Gaz. vol. 183; p. 955.
Darley, John W., Jr., Baltimore, Md., assignor to H. A. Hogel, New York, N. Y. Well-pumping apparatus. No. 1,042,330; Oct. 22; Gaz. vol. 183; p. 996.
Darling, Asa D., Boyne City, Mich. Nut-lock. No. 1,034,697; Aug. 6; Gaz. vol. 181; p. 98.
Darling, Herman L., Delta, Colo. System of motor-operated tree vibration for saving buds and blossoms from frost. No. 1,027,403; May 28; Sp. p. 5110; Gaz. vol. 178; p. 897.
Darling, James D., Philadelphia, Pa. Manufacture of chewing-gum. No. 1,040,285; Oct. 8; Gaz. vol. 183; p. 236.
Darling, Wellington W., Delta, Colo. Resilient wheel. No. 1,036,579; Aug. 27; Gaz. vol. 181; p. 844.
Darlington, Frederick, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. System of electrical distribution. No. 1,013,133; Jan. 2; Sp. p. 85; Gaz. vol. 174; p. 15.
Darlington, Jesse, Jr., assignor of one-half to A. M. Plummer, Westville, N. J. Gasket. No. 1,030,055; June 18; Sp. p. 4344; Gaz. vol. 179; p. 749.
Darlington, Philip J., Pittsburgh, Pa. Rotary motor. No. 1,041,040; Oct. 15; Gaz. vol. 183; p. 528.

Alphabetical list of patentees—Continued.

Darlinton, George W., Los Angeles, Cal. Machine for securing wire to frames. No. 1,026,789; May 21; Sp. p. 3740; Gaz. vol. 178; p. 647.
Darmstädter, Georg, Darmstadt, Germany. Automatic balance with sliding weights. No. 1,024,881; Apr. 30; Sp. p. 6758; Gaz. vol. 177; p. 1189.
Darmstadter, Herbert M., Chicago, Ill. Hat-conformator. No. 1,030,978; July 2; Gaz. vol. 180; p. 45.
Darnell, Rowland J., Memphis, Tenn. Machine for making wire-bale-tie loops. No. 1,048,049; Dec. 24; Gaz. vol. 185; p. 879.
Darnill, Walter W. (See Wells and Darnill.)
Darnley, David, Lonaconing, Md. Railway-switch. No. 1,044,147; Nov. 12; Gaz. vol. 184; p. 415.
Darnley, Richard E., Huddersfield, England. Apparatus for inflating rotating tires. No. 1,040,643; Oct. 8; Gaz. vol. 183; p. 364.
Darnstaedt, Frederick W. (See Leclerc and Schmitt, assignors.)
Darrah, Mary E. G., assignor to Le Papillon Corset Co., New York, N. Y. Combined hip-reducer and hose-supporter. No. 1,016,614; Feb. 6; Sp. p. 887; Gaz. vol. 175; p. 132.
Darrin, David H., New York, N. Y. Magnet-actuated device. No. 1,015,787; Jan. 30; Sp. p. 5938; Gaz. vol. 174; p. 1039.
Darrow, Wilton E., Sutter Creek, Cal. Slime-concentrator. No. 1,035,165; Aug. 13; Gaz. vol. 181; p. 285.
Darst, Jacob A., Caldwell, Kans., and M. Brittain, Chickasha, Okla. Hydrocarbon-furnace. No. 1,025,054; Apr. 30; Sp. p. 7094; Gaz. vol. 177; p. 1247.
Darting, Harmen A., Glenwood, Iowa. Machine for scalding tomatoes. No. 1,015,379; Jan. 23; Sp. p. 5057; Gaz. vol. 174; p. 872.
Dashner, Lou C., Point Pleasant, W. Va. Match-box. No. 1,031,625; July 2; Gaz. vol. 180; p. 269.
Dath, Charles E., assignor to W. H. Miner, Chicago, Ill. Safety-support for draft-rigging. No. 1,018,485; Feb. 27; Sp. p. 4994; Gaz. vol. 175; p. 879.
Daub, Ludwig P., Pforzheim, Germany. Making fusible wire. No. 1,013,864; Jan. 9; Sp. p. 1725; Gaz. vol. 174; p. 298.
Daudelin, Eusebe H. (See Daudelin, Jean B. and E. H.)
Daudelin, Jean B. and E. H., Fall River, Mass. Hand-threading shuttle. No. 1,048,662; Dec. 31; Gaz. vol. 185; p. 1127.
Dauernheim, Augustus M., New York, N. Y. Awning. No. 1,021,508; Mar. 26; Sp. p. 5343; Gaz. vol. 176; p. 962.
Daugherty, Frank M., Byron, Wash. Hoisting apparatus. No. 1,030,771; June 25; Sp. p. 6140; Gaz. vol. 179; p. 1042.
Daugherty, James D., Kittanning, Pa., assignor to Union Typewriter Company, Ilion, N. Y. Type-writing machine. No. 1,018,811; Feb. 27; Sp. p. 5739; Gaz. vol. 175; p. 990.
Daugherty, Reil, Harrisburg, Pa. Adjustable support for chandeliers. No. 1,039,106; Sept. 24; Gaz. vol. 182; p. 736.
Daum, Charles H. (See Kimball and Daum.)
Daum, Louis, Chicago, Ill. Apron. No. 1,031,054; July 2; Gaz. vol. 180; p. 74.
Daunt, Joseph H., *et al.* (See Walsh, James, assignor.)
Dauphin, Henry S., Sheldon, Vt. Toy. No. 1,025,689; May 7; Sp. p. 1291; Gaz. vol. 178; p. 200.
Daus, Louis A., Evansville, Ind. Awning-bracket. No. 1,017,515; Feb. 13; Sp. p. 2837; Gaz. vol. 175; p. 478.
Daution, Elie P., New York, N. Y. Cheese-server. No. 1,047,920; Dec. 24; Gaz. vol. 185; p. 838.
Daven, Michael P., assignor of one-third to J. Schultz and one-third to C. H. Fesenfeldt, St. Louis, Mo. Device for cutting and scoring paper-box blanks. No. 1,027,822; May 28; Sp. p. 5968; Gaz. vol. 178; p. 1036.
Davenport, Austin D. (See Cornett and Davenport.)
Davenport, Austin D. (See Drummond and Davenport.)
Davenport, Charles H., assignor to O. D. Hamrick and F. J. King, Elk Park, N. C. Saw-set. No. 1,036,195; Aug. 20; Gaz. vol. 181; p. 678.
Davenport, Elmer E., assignor of one-half to M. R. Davenport, Baraboo, Wis. Bolt-lock. No. 1,016,554; Feb. 6; Sp. p. 759; Gaz. vol. 175; p. 111.
Davenport, Eugene F., Melrose, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Skiving-machine. No. 1,029,176; June 11; Sp. p. 2396; Gaz. vol. 179; p. 408.
Davenport, Harry W., Chicago, Ill. Tobacco-pipe. No. 1,038,303; Sept. 10; Gaz. vol. 182; p. 411.
Davenport Ice Chipping Machine Company. (See Nelson, John M., assignor.)
Davenport Machine & Foundry Co. (See Anderson, John T., assignor.)
Davenport, Merwin R. (See Davenport, Elmer E., assignor.)
Davenport Wagon Company. (See Hecht, Joseph L., assignor.)
Davenport, Walton C., Norwich, Conn. Breakdown gun. No. 1,040,644; Oct. 8; Gaz. vol. 183; p. 364.
Davenport Washing Machine Company. (See Wahle, Adolph, assignor.)
Davenport, William S., New Bedford, Mass. Turning-tool. No. 1,032,382; July 16; Gaz. vol. 180; p. 615.
Davey, Henry, Conaways, Ewell, England. Sluice and flood-gate. No. 1,040,158; Oct. 1; Gaz. vol. 183; p. 163.
Davey, Henry, Conaways, Ewell, England. Weir and flood-gate. No. 1,040,159; Oct. 1; Gaz. vol. 183; p. 164.
Davey, John F., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Work-support. No. 1,023,300; Apr. 16; Sp. p. 3321; Gaz. vol. 177; p. 594.
David, Leon and P., San Francisco, Cal.; said Leon David assignor to said P. David. Manufacturing grate-bars. No. 1,022,773; Apr. 9; Sp. p. 2193; Gaz. vol. 177; p. 376.
David Lupton's Sons Company. (See Wilkinson, Eleazar T., assignor.)
David, Paul. (See David, Leon and P.)
Davidheiser, Frank B. (See Davidheiser, John H. and F. B.)
Davidheiser, John H. and F. B., Stowe, Pa. Apparatus for striking off brick. No. 1,021,354; Mar. 26; Sp. p. 4978; Gaz. vol. 176; p. 908.
Davidson, Alexander H., Colma, and S. Sundelius, San Francisco, Cal. Spray-burner. No. 1,020,955; Mar. 19; Sp. p. 4139; Gaz. vol. 176; p. 721.
Davidson, Andrew. (See Robeson and Davidson.)
Davidson, Anna F., *et al.* (See Knight, Margaret E., assignor.)
Davidson, Beatrice M., *et al.* (See Knight, Margaret E., assignor.)
Davidson, Bruce L., and E. B. Welch, Cleveland, Ohio. Bolts for doors. No. 1,027,035; May 21; Sp. p. 4329; Gaz. vol. 178; p. 734.
Davidson, Charles G., Waco, Tex. Cable clip or hanger. No. 1,020,130; Mar. 12; Sp. p. 2397; Gaz. vol. 176; p. 409.
Davidson, Charles J., Hackensack, N. J., assignor to American Telephone and Telegraph Company. Instrument for testing batteries. No. 1,020,541; Mar. 19; Sp. p. 3251; Gaz. vol. 176; p. 582.
Davidson, David L., Milam, Tex. Trap. No. 1,025,055; Apr. 30; Sp. p. 7095; Gaz. vol. 177; p. 1247.
Davidson, Edward M., New York, N. Y., assignor to Pyrene Manufacturing Company. Making a fire-extinguishing compound. No. 1,036,461; Aug. 20; Gaz. vol. 181; p. 770.
Davidson, Eli, Boston, Mass. Cover for magazines, pamphlets, sheet-music, and the like. No. 1,029,280; June 11; Sp. p. 2619; Gaz. vol. 179; p. 444.
Davidson, Frank B., Marseilles, Ill., assignor to Howe and Davidson Company, East Orange, N. J. Container. No. 1,028,195; June 4; Sp. p. 309; Gaz. vol. 179; p. 40.
Davidson, Harrison, Turtle Creek, Pa. Wrench. No 1,044,998; Nov. 19; Gaz. vol. 184; p. 741.
Davidson, Ira M., assignor of one-fourth to W. B. Davis, Neeleyville, and one-fourth to C. I. Davis, Clinton, Mo. Spark-generator for internal-combustion engines. No. 1,015,788; Jan. 30; Sp. p. 5942; Gaz. vol. 174; p. 1039.
Davidson, John, Pendleton, England. Condensing steam-engine. No. 1,018,300; Feb. 20; Sp. p. 4566; Gaz. vol. 175; p. 784.
Davidson, John, Wick, Scotland. Manufacture of a fish food. No. 1,047,760; Dec. 17; Gaz. vol. 185; p. 755.
Davidson, John, Pendleton, and W. O. Larmuth, Salford, England. Valve-gear for steam-engines. No. 1,033,676; July 23; Gaz. vol. 180; p. 1087.
Davidson, John A., assignor to James B. Clow & Sons, Chicago, Ill. Urinal. No. 1,018,966; Feb. 27; Sp. p. 6064; Gaz. vol. 175; p. 1043.
Davidson, John F., Round Mountain, Nev. Card and address book. No. 1,043,511; Nov. 5; Gaz. vol. 184; p. 168.
Davidson, Lewis P. (See Blake, John H., assignor.)
Davidson, Lowell M., Eldorado, Ill. Wire-stretching device. No. 1,018,882; Feb. 27; Sp. p. 5877; Gaz. vol. 175; p. 1014.
Davidson, Roy C., Fort Blackmore, Va. Welding copper. No. 1,013,134; Jan. 2; Sp. p. 88; Gaz. vol. 174; p. 16.
Davidson, Virgil H. (See Lile and Davidson.)
Davie, T. P. (See Davison, William F., assignor.)
Davies, Adrian D., Chase, Kans. Rail-base. No. 1,030,874; July 2; Gaz. vol. 180; p. 9.
Davies, C. H. (See Eynon, William H., assignor.)
Davies, David G., Spokane, Wash. Liquid-level indicator. No. 1,029,598; June 18; Sp. p. 3314; Gaz. vol. 179; p. 589.
Davies, David P., assignor to J. I. Case Threshing Machine Company, Racine, Wis. Steering mechanism for traction-engines and the like. No. 1,045,952; Dec. 3; Gaz. vol. 185; p. 53.
Davies, Jenkin P., Cincinnati, Ohio. Mechanical stoker. No. 1,025,788; May 7; Sp. p. 1485; Gaz. vol. 178; p. 235.
Davies, John W., Barnesboro, Pa. Rail-joint. No. 1,044,357; Nov. 12; Gaz. vol. 184; p. 488.
Davies, John W., Reading, assignor to Manton-Gaulin Manufacturing Company, Boston, Mass. Machine for treating liquids. No. 1,026,947; May 21; Sp. p. 4128; Gaz. vol. 178; p. 703.
Davies, Jonah, Hazleton, Pa. Clothes-wringer. No 1,038,304; Sept. 10; Gaz. vol. 182; p. 411.
Davies Threshing Machine Company, The. (See Nelson, Elwyn F., assignor.)

Alphabetical list of patentees—Continued.

Davis, Albert R., Oneida, N. Y. Rail-brace. No. 1,041,969; Oct. 22; Gaz. vol. 183; p. 878.
Davis, Alfred C. (See Balder, Lawson, and Davis.)
Davis, Alfred H., St. Petersburg, Fla., assignor, by mesne assignments, to International Concrete Piling Co., Inc., Jamestown, N. Y. Concreting piles. No. 1,025,112; Apr. 30; Sp. p. 7225; Gaz. vol. 177; p. 1266.
Davis, Alice U., El Paso, Tex. Paper-guide. No. 1,040,901; Oct. 8; Gaz. vol. 183; p. 446.
Davis, Alpha Y., Kansas City, Mo. Vehicle-wheel. No. 1,014,694; Jan. 16; Sp. p. 3577; Gaz. vol. 174; p. 612.
Davis, Alpha Y., Chicago, Ill. Grip-nut. No. 1,028,196; June 4; Sp. p. 310; Gaz. vol. 179; p. 40.
Davis, Archibald C., Omaha, Nebr., assignor to Carr Manufacturing Company, Kansas City, Mo. Dispensing-can. No. 1,040,519; Oct. 8; Gaz. vol. 183; p. 316.
Davis, Arthur M. and B. F., Jackson, Ohio. Mold-forming machine. No. 1,025,789; May 7; Sp. p. 1492; Gaz. vol. 178; p. 236.
Davis, Asahel H., Douglas county, Kans. Attachment for cultivators. No. 1,045,126; Nov. 26; Gaz. vol. 184; p. 814.
Davis, Bethuel M. (See Travis, Davis, and Antoine.)
Davis-Bournonville Acetylene Development Company. (See Whitford, John W., assignor.)
Davis-Bournonville Company. (See Bucknam, Worthy C., assignor.)
Davis, Burt F. (See Davis, Arthur M. and B. F.)
Davis, Burt F., assignor to L. H. Hollberg, Jackson, Ohio. Level. No. 1,023,301; Apr. 16; Sp. p. 3327; Gaz. vol. 177; p. 594.
Davis, Burt L., *et al.* (See Tank, Henry P., assignor.)
Davis, Carl H., assignor to United States Envelope Sealing Machine Company, Springfield, Mass. Envelop-sealing machine. No. 1,044,756; Nov. 19; Gaz. vol. 184; p. 659.
Davis, Charles C., Philadelphia, Pa. Flanging-machine. No. 1,040,160; Oct. 1; Gaz. vol. 183; p. 164.
Davis, Charles D., Elk Grove, Cal. Bottle-stopper. No. 1,047,761; Dec. 17; Gaz. vol. 185; p. 755.
Davis, Charles E., Denver, Colo. Roller-bearing. No. 1,018,697; Feb. 27; Sp. p. 5483; Gaz. vol. 175; p. 950.
Davis, Charles E., assignor to Warner Gear Company, Muncie, Ind. Power-transmission unit for automobiles. No. 1,024,121; Apr. 23; Sp. p. 5059; Gaz. vol. 177; p. 892.
Davis, Charles H., Petersburg, Va. Coupon certificate of deposit. No. 1,041,041; Oct. 15; Gaz. vol. 183; p. 528.
Davis, Charles H. A., San Rafael, Cal. Holding-vise attachment. No. 1,025,739; May 7; Sp. p. 1397; Gaz. vol. 178; p. 218.
Davis, Charles O., Rupert, Idaho. Hay-loader. No. 1,027,465; May 28; Sp. p. 5228; Gaz. vol. 178; p. 917.
Davis, Charles S. (See Worth, Mason G., assignor.)
Davis, Charles W., Edgeworth, assignor to Standard Underground Cable Company, Pittsburgh, Pa. Terminal structure. No. 1,021,453; Mar. 26; Sp. p. 5218; Gaz. vol. 176; p. 943.
Davis, Claude B., assignor of one-sixth to W. Lawrence, one-sixth to J. Lichtenstein, and one-third to F. A. Arnzen, Richmond, Va. Shoulder-bag clasp. No. 1,027,527; May 28; Sp. p. 5352; Gaz. vol. 178; p. 937.
Davis, Cleland, U. S. Navy. Trajectory-regulator for projectiles. No. 1,043,074; Nov. 5; Gaz. vol. 184; p. 9.
Davis, Clement. (See Wolfe, Abner K., assignor.)
Davis, Columbus I., *et al.* (See Davidson, Ira M., assignor.)
Davis, David R., Eau Claire, Wis. Aeroplane. No. 1,030,772; June 25; Sp. p. 6142; Gaz. vol. 179; p. 1042.
Davis, Don D., Saginaw, Mich. Car-seal. No. 1,016,985; Feb. 13; Sp. p. 1687; Gaz. vol. 175; p. 294.
Davis, Don D., Saginaw, Mich. Seal. No. 1,025,081; Apr. 30; Sp. p. 7155; Gaz. vol. 177; p. 1255.
Davis, Edward, Urbana, Ill. Combination tie and rail-fastener. No. 1,037,600; Sept. 3; Gaz. vol. 182; p. 142.
Davis, Edward J., Grenloch, N. J. Cultivator. No. 1,014,572; Jan. 9; Sp. p. 3232; Gaz. vol. 174; p. 583.
Davis, Edward S., Evanston, Ill. Melting-furnace. No. 1,045,528; Nov. 26; Gaz. vol. 184; p. 957.
Davis, Edwin F., Corning, N. Y. Track construction. No. 1,019,307; Mar. 5; Sp. p. 678; Gaz. vol. 176; p. 106.
Davis, Elias V., assignor of one-half to J. T. Foody, Hornell, N. Y. Mail-box. No. 1,026,078; May 14; Sp. p. 2195; Gaz. vol. 178; p. 370.
Davis, Ellery L. (See Berlinghof and Davis.)
Davis, Emery E., assignor to Matthews-Davis Tool Company, St. Louis, Mo. Reaming-tool. No. 1,046,739; Dec. 10; Gaz. vol. 185; p. 368.
Davis, Emery E., assignor to Matthews-Davis Tool Company, St. Louis, Mo. Boring-tool. No. 1,046,740; Dec. 10; Gaz. vol. 185; p. 368.
Davis, Emry, New York, N. Y. Gun-sight. No. 1,037,451; Sept. 3; Gaz. vol. 182; p. 94.
Davis, Emry, New York, N. Y. Inkstand construction. No. 1,046,150; Dec. 3; Gaz. vol. 185; p. 121.
Davis, Ernest W., Chicago, Ill. Aerial toy. No. 1,014,953; Jan. 16; Sp. p. 4167; Gaz. vol. 174; p. 701.
Davis, Ewing O., Greensboro, Pa. Valve. No. 1,017,385; Feb. 13; Sp. p. 2553; Gaz. vol. 175; p. 432.
Davis, Frank C., Tucson, Ariz. Broom and mop holder. No. 1,025,562; May 7; Sp. p. 1028; Gaz. vol. 178; p. 159.
Davis, Frank E., assignor of one-half to A. Hirshheimer, La Crosse, Wis. Plow. No. 1,015,301; Jan. 23; Sp. p. 4879; Gaz. vol. 174; p. 845.
Davis, Frank L. (See Wells, Joseph M., assignor.)
Davis, Fred M., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Telephone system. No. 1,017,085; Feb. 13; Sp. p. 1921; Gaz. vol. 175; p. 330.
Davis, Fred M., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Telephone trunking system. No. 1,026,850; May 21; Sp. p. 3870; Gaz. vol. 178; p. 668.
Davis & Furber Machine Company. (See Stevens, Frank C., assignor.)
Davis, George E., Visalia, Cal. Harrow. No. 1,018,301; Feb. 20; Sp. p. 4568; Gaz. vol. 175; p. 784.
Davis, George H., Advance, Mo. Spring-hub. No. 1,029,429; June 11; Sp. p. 2970; Gaz. vol. 179; p. 497.
Davis, George H., West Orange, N. J. Spool for perforated music-rolls. No. 1,034,086; July 30; Gaz. vol. 180; p. 1256.
Davis, George H., West Orange, N. J. Music-roll spool. No. 1,036,079; Aug. 20; Gaz. vol. 181; p. 636.
Davis, George H., assignor to The E. T. Burrowes Company, Portland, Me. Screen. No. 1,018,099; Feb. 20; Sp. p. 4162; Gaz. vol. 175; p. 716.
Davis, George H., assignor to E. T. Burrowes, Portland, Me. Paper carpet. No. 1,038,094; Sept. 10; Gaz. vol. 182; p. 341.
Davis, George H., assignor to E. T. Burrowes, Portland, Me. Paper carpet. No. 1,038,095; Sept. 10; Gaz. vol. 182; p. 341.
Davis, George H., assignor of one-third to H. W. Varner, Searcy, Ark. Railway cattle-guard. No. 1,041,970; Oct. 22; Gaz. vol. 183; p. 878.
Davis, George S., assignor to Parker Wire Goods Company, Worcester, Mass. Nozzle-holder. No. 1,040,645; Oct. 8; Gaz. vol. 183; p. 365.
Davis, George U., Indianapolis, Ind. Road cleaner and smoother. No. 1,033,551; July 23; Gaz. vol. 180; p. 1047.
Davis, George W. (See Stokes and Davis.)
Davis, George W., Westmount, Quebec, Canada. Typewriter. No. 1,025,129; May 7; Sp. p. 37; Gaz. vol. 178; p. 7.
Davis, George W., Westmount, Quebec, Canada. Paper-feeding mechanism for type-writers. No. 1,034,984; Aug. 6; Gaz. vol. 181; p. 195.
Davis, Grover C., New York, N. Y. Spark-plug. No. 1,031,626; July 2; Gaz. vol. 180; p. 269.
Davis, Harold E., Smock, Pa. Nail-extractor. No. 1,023,725; Apr. 16; Sp. p. 4147; Gaz. vol. 177; p. 728.
Davis, Harris M., Leetsdale, Pa. Window. No. 1,039,263; Sept. 24; Gaz. vol. 182; p. 793.
Davis, Harry. (See Ward, Frederick G., assignor.)
Davis, Harry G., assignor to The H. G. Davis Manufacturing Company, Philadelphia, Pa. Ticket-attaching machine. No. 1,048,136; Dec. 24; Gaz. vol. 185; p. 909.
Davis, Harry S., assignor of one-half to D. E. Knowlton, Buffalo, N. Y. Ammonia-still. No. 1,015,145; Jan. 16; Sp. p. 4543; Gaz. vol. 174; p. 766.
Davis, Henry J., Niles, Ohio. Rolling-mill guide. No. 1,017,283; Feb. 13; Sp. p. 2336; Gaz. vol. 175; p. 398.
Davis, Henry W., Martins Ferry, Ohio. Bolt for piston follower-plates. No. 1,018,741; Feb. 27; Sp. p. 5586; Gaz. vol. 175; p. 966.
Davis, Herman, New Orleans, La. Trunk. No. 1,048,810; Dec. 31; Gaz. vol. 185; p. 1179.
Davis, Ida M. (See Zimdars, Anna, assignor.)
Davis, Irwin, Kirksville, Mo. Knockdown chicken-coop. No. 1,024,441; Apr. 23; Sp. p. 5730; Gaz. vol. 177; p. 997.
Davis, Jackson, Athens, Ill. Acetylene-gas lamp. No. 1,016,215; Jan. 30; Sp. p. 6819; Gaz vol. 174; p. 1185.
Davis, Jacob. (See Brown, Morris H., assignor.)
Davis, James A., assignor, by mesne assignments, to The Charles Wing Company, Amesbury, Mass. Upholstery-spring-attaching device. No. 1,039,908; Oct. 1; Gaz. vol. 183; p. 80.
Davis, James B., assignor of one-half to J. T. Mann, Brady, Tex. Neck-yoke or tongue attachment. No. 1,020,268; Mar. 12; Sp. p. 2680; Gaz. vol. 176; p. 455.
Davis, James B., Jr. (See Osborne, John W., assignor.)
Davis, James H., Fort Worth, Tex. Feed-trough. No. 1,039,653; Sept. 24; Gaz. vol. 182; p. 929.
Davis, James M., Bay City, Mich. Veneer-taping machine. No. 1,045,529; Nov. 26; Gaz. vol. 184; p. 957.
Davis, James W. (See Stone, Alonzo, assignor.)
Davis, John, Aurora, Ill. Cable-hanger. No. 1,022,226; Apr. 2; Sp. p. 1008; Gaz. vol. 177; p. 161.
Davis, John A., Chicago, Ill. Device for making puffs and curls of hair. (Reissue.) No. 13,442; July 16; Gaz. vol. 180; p. 850.
Davis, John B., and H. W. Smith, Abingdon, Ill. Collapsible coop. No. 1,017,140; Feb. 13; Sp. p. 2030; Gaz. vol. 175; p. 348.
Davis, John C., Dighton, Mass., assignor to H. Mueller Manufacturing Co., Decatur, Ill. Drinking-fountain. No. 1,047,762; Dec. 17; Gaz. vol. 185; p. 756.

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Davis, John E., Cortland, N. Y. Press. No. 1,024,721; Apr. 30; Sp. p. 6426; Gaz. vol. 177; p. 1132.
Davis, John H., Oakland, and J. W. Morgan, Elmhurst, Cal. Disk plow. No. 1,042,651; Oct. 29; Gaz. vol. 183; p. 1138.
Davis, John J., assignor of one-half to E. M. Clark, Waterville, Conn. Stamp-holder. No. 1,014,380; Jan. 9; Sp. p. 2882; Gaz. vol. 174; p. 477.
Davis, John O., Pawnee, Okla. Pneumatic cushion for vehicles. No. 1,043,677; Nov. 5; Gaz. vol. 184; p. 224.
Davis, John R. (See Robbins and Davis.)
Davis, John T., Alameda, assignor to The Technical Development Company, San Francisco, Cal. Distillation apparatus. No. 1,023,244; Apr. 16; Sp. p. 3212; Gaz. vol. 177; p. 574.
Davis, John W. (See Barnett, John B., assignor.)
Davis, John W., assignor of one-half to C. G. Hall, Whitefish, Mont. Oscillating valve. No. 1,030,167; June 18; Sp. p. 4553; Gaz. vol. 179; p. 786.
Davis, Joseph E. (See Smith, Thomas R., assignor.)
Davis, Joseph W., Concordia, Kans. Snatch-block. No. 1,017,652; Feb. 20; Sp. p. 3096; Gaz. vol. 175; p. 560.
Davis, Lester R., Riverside, Cal. Baking-oven. No. 1,018,883; Feb. 27; Sp. p. 5878; Gaz. vol. 175; p. 1014.
Davis, Lewis K., New York, N. Y. Building construction. No. 1,017,386; Feb. 13; Sp. p. 2556; Gaz. vol. 175; p. 432.
Davis, Lewis K., New York, N. Y. Building construction. No. 1,041,245; Oct. 15; Gaz. vol. 183; p. 597.
Davis Locomotive Wheel Company. (See Westlake, Charles T., assignor.)
Davis, Loyd, Nauvoo, Ill. Tooth. No. 1,016,555; Feb. 6; Sp. p. 760; Gaz. vol. 175; p. 112.
Davis, Luckey C., Thyatira, Miss. Safety whip-holder. No. 1,040,646; Oct. 8; Gaz. vol. 183; p. 365.
Davis, Luther M., Portland, Oreg. Electric trolley. No. 1,022,357; Apr. 2; Sp. p. 1260; Gaz. vol. 177; p. 202.
Davis, Merrill, assignor to J. B. Wise, Watertown, N. Y. Portable furnace. No. 1,025,515; May 7; Sp. p. 907; Gaz. vol. 178; p. 142.
Davis, Merrill, assignor to J. B. Wise, Watertown, N. Y. Hoist. No. 1,025,516; May 7; Sp. p. 913; Gaz. vol. 178; p. 142.
Davis, Merrill, assignor to J. B. Wise, Watertown, N. Y. Valve. No. 1,025,517; May 7; Sp. p. 919; Gaz. vol. 178; p. 143.
Davis, Merrill, assignor to J. B. Wise, Watertown, N. Y. Portable furnace. No. 1,025,563; May 7; Sp. p. 1029; Gaz. vol. 178; p. 159.
Davis, Miles L., Lancaster, Pa. Oven for baking pretzels. No. 1,036,580; Aug. 27; Gaz. vol. 181; p. 844.
Davis, Milton E., Canastota, N. Y. Tire. No. 1,023,554; Apr. 16; Sp. p. 3821; Gaz. vol. 177; p. 674.
Davis, Minor M., and A. J. Eaves, New York, N. Y. Multiplex telegraph system. No. 1,034,953; Dec. 3; Gaz. vol. 185; p. 54.
Davis, Nathan H., Philadelphia, Pa. Brake-beam suspension. No. 1,028,443; June 4; Sp. p. 846; Gaz. vol. 179; p. 126.
Davis, Nathan H., Philadelphia, Pa. Brake-head. No. 1,043,807; Nov. 12; Gaz. vol. 184; p. 298.
Davis, Oliver P. M., Bedford, Ind., assignor, by mesne assignments, to Thomas A. Edison, Incorporated, West Orange, N. J. Kinetoscope. No. 1,036,462; Aug. 20; Gaz. vol. 181; p. 770.
Davis, Oscar, Stewart, Ohio. Automatic brake. No. 1,040,520; Oct. 8; Gaz. vol. 183; p. 316.
Davis, Othman, Gainesville, Tex. Combined smoke-consumer and vaporizer. No. 1,014,573; Jan. 9; Sp. p. 3234; Gaz. vol. 174; p. 538.
Davis, Otis L., Iowa City, Iowa. Burglar-alarm. No. 1,029,281; June 11; Sp. p. 2622; Gaz. vol. 179; p. 445.
Davis, Otis M. (See Bott and Davis.)
Davis, Paul E., New York, N. Y. Drip-cup for umbrellas. No. 1,031,916; July 9; Gaz. vol. 180; p. 413.
Davis, Ray. (See Booc and Davis.)
Davis, Robert E., Bayard, Nebr. Safety whiffletree-detacher. No. 1,048,050; Dec. 24; Gaz. vol. 185; p. 879.
Davis, Robert H. (See Fleuss and Davis.)
Davis, Robert H., assignor of one-half to Siebe Gorman and Company, Limited, London, England. Apparatus for testing air. No. 1,027,823; May 28; Sp. p. 5970; Gaz. vol. 178; p. 1036.
Davis, Robert W., Jr., assignor to Pennsylvania Salt Manufacturing Company, Wyandotte, Mich. Manufacturing electrodes. No. 1,039,034; Sept. 17; Gaz. vol. 182; p. 696.
Davis, Robert W., Jr., Wyandotte, Mich., assignor to Pennsylvania Salt Manufacturing Company, Philadelphia, Pa. Manufacturing metallic-oxid electrodes. No. 1,039,071; Sept. 17; Gaz. vol. 182; p. 706.
Davis, Roy L., Defiance, Ohio. Mail-box. No. 1,030,391; June 25; Sp. p. 5081; Gaz. vol. 179; p. 906.
Davis, Roy P. M., Lock Haven, Pa. Rock-measuring apparatus. No. 1,038,305; Sept. 10; Gaz. vol. 182; p. 412.
Davis Sewing Machine Company, The. (See Green, Lyman D., assignor.)
Davis, Stephen A., Newark, N. J., assignor, by mesne assignments, to Domestic Sewing Machine Company. Sewing-machine tension. No. 1,014,050; Jan. 9; Sp. p. 2156; Gaz. vol. 174; p. 360.
Davis, Stephen A., assignor to National Sweeper Company, Newark, N. J. Carpet-sweeper. No. 1,045,264; Nov. 26; Gaz. vol. 184; p. 862.
Davis, Stewart A., assignor to The American Sheet & Tin Plate Company, Pittsburgh, Pa. Operating hot-mills. No. 1,035,949; Aug. 20; Gaz. vol. 181; p. 591.
Davis, Thomas E., Auburn, N. Y. Serving-table. No. 1,021,454; Mar. 26; Sp. p. 5219; Gaz. vol. 176; p. 943.
Davis, Thomas H., *et al.* (See Adams, William C., assignor.)
Davis, Ulysses C., assignor to Eaton, Crane & Pike Company, Pittsfield, Mass. Machine for imprinting envelops and the like. No. 1,027,824; May 28; Sp. p. 5971; Gaz. vol. 178; p. 1037.
Davis, Victor E., Denver, Colo. Metal railway-tie and rail-fastener. No. 1,046,276; Dec. 3; Gaz. vol. 185; p. 166.
Davis, W. I., *et al.* (See Tatum, Franklin M., assignor.)
Davis, Walter E., Fitchburg, Mass. Mail-box. No. 1,049,058; Dec. 31; Gaz. vol. 185; p. 1264.
Davis, Walter G. (See Burrows, William J., assignor.)
Davis, Walter M., New York, N. Y. Combined piano player and talking-machine. No. 1,013,589; Jan. 2; Sp. p. 1070; Gaz. vol. 174; p. 173.
Davis, Walter M., New York, N. Y., and J. Hattemer, West New York, N. J., assignors to Hardman, Peck & Company, New York, N. Y. Electric accenting device for pneumatic musical instruments. No. 1,046,275; Dec. 3; Gaz. vol. 185; p. 166.
Davis, William A., Clovis, N. Mex. Type-writer attachment. No. 1,018,411; Feb. 27; Sp. p. 4830; Gaz. vol. 175; p. 855.
Davis, William B., *et al.* (See Davidson, Ira M., assignor.)
Davis, William F., Kansas City, Kans. Road-binder-mixing machine. No. 1,020,640; Mar. 19; Sp. p. 3479; Gaz. vol. 176; p. 614.
Davis, William F., Kansas City, Kans. Road-oiling machine. No. 1,044,999; Nov. 19; Gaz. vol. 184; p. 741.
Davis, William F., Van Vleet, Miss. Stalk-cutter. No. 1,046,564; Dec. 10; Gaz. vol. 185; p. 306.
Davis, William H. (See Clark and Davis.)
Davis, William H., assignor of one-half to G. W. Teal, Boulder, Colo. Electrolytic cell. No. 1,015,546; Jan. 23; Sp. p. 5416; Gaz. vol. 174; p. 928.
Davis, William J. N., Chicago, Ill. Means for locking automobile starting-cranks. No. 1,037,601; Sept. 3; Gaz. vol. 182; p. 142.
Davis, William R. (See Burton, Elisha L., assignor.)
Davis, William R., and J. J. Kain, Maysville, Ky. Collapsible and extensible roof for open-top railway-cars, &c. No. 1,015,146; Jan. 16; Sp. p. 4544; Gaz. vol. 174; p. 767.
Davis, William R., and R. U. Wright, Deport, Tex. Oil-burner. No. 1,041,246; Oct. 15; Gaz. vol. 183; p. 598.
Davison, Andrew O., assignor to The Multi-Rate Company, Dayton, Ohio. Computing-machine. No. 1,033,787; July 30; Gaz. vol. 180; p. 1149.
Davison, Dorsette A., Richmond, Va. Aeroplane. No. 1,038,306; Sept. 10; Gaz. vol. 182; p. 412.
Davison, Elwin T., Athenia, N. J. Furnace. No. 1,027,187; May 21; Sp. p. 4661; Gaz. vol. 178; p. 783.
Davison, Gregory C., Quincy, Mass. Launching torpedoes. No. 1,033,993; July 30; Gaz. vol. 180; p. 1223.
Davison, Gregory C., Quincy, Mass. Valve-control mechanism for gyroscopic steering-gear. No. 1,033,994; July 30; Gaz. vol. 180; p. 1223.
Davison, Gregory C., Quincy, Mass. Gyroscopic steering mechanism for torpedoes. No. 1,033,995; July 30; Gaz. vol. 180; p. 1224.
Davison, Gregory C., Quincy, Mass., assignor to Electric Boat Company, New York, N. Y. Apparatus for generating motive fluid for automobile torpedoes. No. 1,036,080; Aug. 20; Gaz. vol. 181; p. 636.
Davison, Gregory C., Quincy, Mass., assignor to Electric Boat Company, New York, N. Y. Motive-fluid-generating apparatus for automobile torpedoes. No. 1,036,081; Aug. 20; Gaz. vol. 181; p. 637.
Davison, Gregory C., Quincy, Mass., assignor to Electric Boat Company, New York, N. Y. Automobile torpedo. No. 1,036,082; Aug. 20; Gaz. vol. 181; p. 637.
Davison, Percy R., Gravesend, England. Crane. No. 1,023,507; Apr. 16; Sp. p. 3730; Gaz. vol. 177; p. 660.
Davison, William F., assignor of one-half to T. P. Davie, Richmond, Va. Dental appliance. No. 1,031,533; July 2; Gaz. vol. 180; p. 237.
Davisson, Carl W., Los Angeles, Cal. Oil-well apparatus. No. 1,034,698; Aug. 6; Gaz. vol. 181; p. 98.
Davisson, Oscar F., administrator. (See Carney, Thomas.)
Davock, Clarence W., assignor to Detroit Steel Products Company, Detroit, Mich. Clip for metallic window-sash. No. 1,022,123; Apr. 2; Sp. p. 783; Gaz. vol. 177; p. 125.
Davock, Clarence W., assignor to Detroit Steel Products Company, Detroit, Mich. Metallic window-frame. No. 1,040,286; Oct. 8; Gaz. vol. 183; p. 236.

Alphabetical list of patentees—Continued.

Davock, Clarence W., assignor to Detroit Steel Products Company, Detroit, Mich. Swinging window. No. 1,045,265; Nov. 26; Gaz. vol. 184; p. 862.
Davock, Harlow N., Detroit, Mich. Window-sash operator. No. 1,018,034; Feb. 20; Sp. p. 4002; Gaz. vol. 175; p. 693.
Davol Rubber Company. (See Hay, William S., assignor.)
Davoran, Michael F., assignor to The Crane & Breed Manufacturing Company, Cincinnati, Ohio. Burial-casket hardware. No. 1,027,106; May 21; Sp. p. 4502; Gaz. vol. 178; p. 758.
Davoren, John J., assignor of one-half to W. T. Davoren, Denver, Colo. Composition of matter. No. 1,024,561; Apr. 30; Sp. p. 6080; Gaz. vol. 177; p. 1076.
Davoren, William T. (See Davoren, John T., assignor.)
Davy Brothers Limited. (See Holmes, Thomas E., assignor.)
Daw, Hilder, Montreal, Quebec, assignor to F.-J. E Browne, Montreal, Canada. Wall-erecting apparatus. No. 1,034,427; Aug. 6; Gaz. vol. 181; p. 10.
Dawes, Charles A., St. Louis, Mo. Coin-controlling mechanism for vending-machines. No. 1,044,629; Nov. 19; Gaz. vol. 184; p. 613.
Dawkins, John R., and D. Parks, St. Louis, Mo.; said Parks assignor to said Dawkins. Brickmaking-machine. No. 1,024,122; Apr. 23; Sp. p. 5060; Gaz. vol. 177; p. 892.
Dawley, Amos J. (See Reynolds, Clark, assignor.)
Dawley, Clarence A., Plainfield, N. J. Internal-combustion engine. No. 1,018,742; Feb. 27; Sp. p. 5587; Gaz. vol. 175; p. 967.
Dawley, Clarence A., Plainfield, N. J. Governing valve-gear for fluid-pressure motors. No. 1,042,534; Oct. 29; Gaz. vol. 183; p. 1096.
Dawson, Arthur T., and G. T. Buckham, Westminster, assignors to Vickers Sons & Maxim, Limited, London, England. Semi-automatic and other quick-firing gun. No. 1,015,147; Jan. 16; Sp. p. 4546; Gaz. vol. 174; p. 767.
Dawson, Arthur T., and G. T. Buckham, London, assignors to Vickers Limited, Westminster, England. Electrical apparatus for transmitting and receiving signals. No. 1,018,884; Feb. 27; Sp. p. 5879; Gaz. vol. 175; p. 1014.
Dawson, Arthur T., and G. T. Buckham, Westminster, London, assignors, by mesne assignments, to Vickers Limited, Westminster, England. Breech-loading ordnance. No. 1,022,124; Apr. 2; Sp. p. 784; Gaz. vol. 177; p. 125.
Dawson, Arthur T., and G. T. Buckham, Westminster, London, assignors to Vickers Limited, Westminster, England. Cartridge extracting and ejecting mechanism for breech-loading ordnance. No. 1,022,469; Apr. 9; Sp. p. 1513; Gaz. vol. 177; p. 271.
Dawson, Arthur T., and G. T. Buckham, assignors, by mesne assignments, to Vickers, Limited, Westminster, London, England. Sighting apparatus for ordnance. No. 1,026,660; May 21; Sp. p. 3458; Gaz. vol. 178; p. 603.
Dawson, Arthur T., and G. T. Buckham, Westminster, London, assignors to Vickers, Limited, Westminster, England. Breech-loading ordnance. No. 1,032,591; July 16; Gaz. vol. 180; p. 685.
Dawson, Arthur T., and G. T. Buckham, Westminster, London, assignors to Vickers Limited, Westminster, England. Electrical apparatus for transmitting and receiving signals. No. 1,037,452; Sept. 3; Gaz. vol. 182; p. 94.
Dawson, Arthur T., and G. T. Buckham, Westminster, London, England, assignors, by mesne assignments, to Vickers, Limited. Sighting apparatus for ordnance. No. 1,040,161; Oct. 1; Gaz. vol. 183; p. 164.
Dawson, Arthur T., and G. T. Buckham, Westminster, London, England, assignors, by mesne assignments, to Vickers, Limited. Sighting apparatus for ordnance. No. 1,040,162; Oct. 1; Gaz. vol. 183; p. 165.
Dawson, Arthur T., and G. T. Buckham, Westminster, London, assignors, by mesne assignments, to Vickers, Limited, Westminster, England. Elevating and loading gear of howitzers. No. 1,043,512; Nov. 5; Gaz. vol. 184; p. 168.
Dawson, Arthur T., Westminster, London, and J. Horne, Barrow-in-Furness, assignors to Vickers Limited, Westminster, England. Heavy gun. No. 1,016,216; Jan. 30; Sp. p. 6820; Gaz. vol. 174; p. 1185.
Dawson, Arthur T., London, and J. Horne, Barrow-in-Furness, assignor, by mesne assignments, to Vickers, Limited, Westminster, England. Ammunition-hoisting gear for heavy ordnance. No. 1,033,233; July 23; Gaz. vol. 180; p. 942.
Dawson, Arthur T., Westminster, London, and J. Horne, Barrow-in-Furness, assignors to Vickers Limited, Westminster, England. Elevating mechanism of heavy ordnance. No. 1,041,247; Oct. 15; Gaz. vol. 183; p. 598.
Dawson, Arthur T., Westminster, London, and J. Horne, Barrow-in-Furness, assignors to Vickers Limited, Westminster, England. Heavy ordnance. No. 1,041,248; Oct. 15; Gaz. vol. 183; p. 598.
Dawson, Arthur T., Westminster, London, and J. Horne, Barrow-in-Furness, assignors to Vickers Limited, Westminster, England. Heavy ordnance. No. 1,041,249; Oct. 15; Gaz. vol. 183; p. 599.
Dawson, Arthur T., Westminster, London, and J. Horne, Barrow-in-Furness, assignors to Vickers Limited, Westminster, England. Heavy ordnance. No. 1,041,250; Oct. 15; Gaz. vol. 183; p. 599.
Dawson, Arthur T., Westminster, and J. Horne, Barrow-in-Furness, assignors to Vickers Limited, Westminster, London, England. Heavy ordnance. No. 1,041,602; Oct. 15; Gaz. vol. 183; p. 714.
Dawson, Baylis M., Boston, Mass., assignor to E. R. Crooker, Los Angeles, Cal. Soap-holder. No. 1,036,463; Aug. 20; Gaz. vol. 181; p. 770.
Dawson, Charles E., Teddington, England. Apparatus for producing an explosive or combustible mixture of liquid fuel and air. No. 1,029,796; June 18; Sp. p. 3752; Gaz. vol. 179; p. 660.
Dawson, Charles O., and R. Gooding, Rochester, Mich. Trolley-base. No. 1,044,148; Nov. 12; Gaz. vol. 184; p. 416.
Dawson, George. (See Goodwin and Dawson.)
Dawson, Harriet G., Atlanta, Ga. Armor for battleships. No. 1,023,627; Apr. 16; Sp. p. 3984; Gaz. vol. 177; p. 700.
Dawson, James W., Chicago, Ill. Automatic pressure-controlling valve device. No. 1,047,506; Dec. 17; Gaz. vol. 185; p. 664.
Dawson, John J., Toppenish, Wash. Fire-escape. No. 1,047,618; Dec. 17; Gaz. vol. 185; p. 704.
Dawson, Joseph W., assignor to Barry-Wehmiller Machine Company, St. Louis, Mo. Conveyer. No. 1,027,036; May 21; Sp. p. 4330; Gaz. vol. 178; p. 735.
Dawson, Joseph W., assignor to Barry-Wehmiller Machinery Company, St. Louis, Mo. Boring-tool. No. 1,045,000; Nov. 19; Gaz. vol. 184; p. 742.
Dawson, Oliver B., El Paso, Tex. Crude-oil burner. No. 1,027,699; May 28; Sp. p. 5708; Gaz. vol. 178; p. 995.
Dawson, Robert C., McKeesport, Pa. Carbureting air. No. 1,019,430; Mar. 5; Sp. p. 986; Gaz. vol. 176; p. 144.
Dawson, Robert C., East McKeesport, assignor of one-third to T. F. Wiley and one-third to L. N. Morgan, McKeesport, Pa. Pump. No. 1,029,977; June 18; Sp. p. 4166; Gaz. vol. 179; p. 721.
Dawson, Thomas R., Barnesboro, Pa. Locomotive. No. 1,021,455; Mar. 26; Sp. p. 5220; Gaz. vol. 176; p. 944.
Dawson, William, near Narrows, assignor of one-half to W. F. Harris, Narrows, Oreg. Pole-strap. No. 1,048,501; Dec. 31; Gaz. vol. 185; p. 1071.
Dawson, William P., Kamloops, British Columbia, Canada. Stanchion. No. 1,021,576; Mar. 26; Sp. p. 5481; Gaz. vol. 176; p. 984.
Day, Alfred A., Brockton, Mass., assignor to J. Hamilton, East Orange, N. J. Eyeglasses. No. 1,036,581; Aug. 27; Gaz. vol. 181; p. 845.
Day, Alfred H., Waco, Tex. Tire-protector. No. 1,031,534; July 2; Gaz. vol. 180; p. 237.
Day, Benjamin, Summit, N. J., assignor to Ben. Day, Inc. Micrometric printing-film-frame apparatus. No. 1,031,627; July 2; Gaz. vol. 180; p. 270.
Day, Charles P., Newark, N. J., assignor to Universal Tobacco Machine Company. Revolution-counter. No. 1,046,992; Dec. 10; Gaz. vol. 185; p. 451.
Day, Edgar K., Wheeling, W. Va. Eaves-trough hanger. No. 1,041,750; Oct. 22; Gaz. vol. 183; p. 801.
Day, Francis H., Minneapolis, Minn. Dust and grain separator. No. 1,030,875; July 2; Gaz. vol. 180; p. 9.
Day, Frank E., Everett, Mass. Resilient wheel. No. 1,043,075; Nov. 5; Gaz. vol. 184; p. 9.
Day, Frank P., and C. C. Hartzoge, Monroe, La. Lubricator. No. 1,049,059; Dec. 31; Gaz. vol. 185; p. 1264.
Day, Fred C. (See Pleasants, William H., assignor.)
Day, George F., Winthrop, Mass. Protected spark-plug. No. 1,032,818; July 16; Gaz. vol. 180; p. 763.
Day, George H., Southbridge, Mass., assignor to American Optical Company. Former and spindle for lens-cutting machines. No. 1,019,308; Mar. 5; Sp. p. 679; Gaz. vol. 176; p. 106.
Day, George H., assignor to American Optical Company, Southbridge, Mass. Eyeglasses and spectacles. No. 1,036,083; Aug. 20; Gaz. vol. 181; p. 638.
Day, Harry M., New Richmond, Ohio. Window-screen. No. 1,030,979; July 2; Gaz. vol. 180; p. 45.
Day, Henry L., Minneapolis, Minn. Dust-collecting system. No. 1,029,531; June 11; Sp. p. 3160; Gaz. vol. 179; p. 530.
Day, Henry L., Minneapolis, Minn. Floor-sweep. No. 1,029,532; June 11; Sp. p. 3162; Gaz. vol. 179; p. 531.
Day, Henry L., Minneapolis, Minn. Separator. No. 1,029,571; June 11; Sp. p. 3250; Gaz. vol. 179; p. 545.
Day, James, San Francisco, Cal. Combustion-engine. No. 1,039,705; Oct. 1; Gaz. vol. 183; p. 11.
Day, John G., Denman Island, British Columbia, Canada. Fish-plate. No. 1,033,677; July 23; Gaz. vol. 180; p. 1087.
Day, John M. (See Emery and Day.)
Day, John M., Seattle, Wash. Device for opening, holding, preserving, and using canned milk and other canned fluids. No. 1,041,971; Oct. 22; Gaz. vol. 183; p. 879.
Day, Maxwell W., Schenectady, N. Y., assignor to General Electric Company. Automatic motor control. No. 1,028,332; June 4; Sp. p. 580; Gaz. vol. 179; p. 87.

Day-Ward Company, The. (See Carter, Edwin E., assignor.)
Dayton, Charles F. (See Hestand and Dayton.)
Dayton, Clyde W., Chatsworth, Cal. Making a beverage from honey. No. 1,038,307; Sept. 10; Gaz. vol. 182; p. 412.
Dayton Electrical Manufacturing Co. (See Apple, Vincent G., assignor.)
Dayton Engineering Laboratories Co., The. (See Kettering, Charles F., assignor.)
Dayton, James M., assignor to Excelsior Needle Company, Torrington, Conn. Carbureter. No. 1,016,251; Feb. 6; Sp. p. 17; Gaz. vol. 175; p. 5.
Dayton, James M., assignor to Excelsior Needle Company, Torrington, Conn. Carbureter. No. 1,016,252; Feb. 6; Sp. p. 19; Gaz. vol. 175; p. 5.
Dayton, Reuben C., Rhinelander, Wis. Automatic fire-kindler and alarm. No. 1,013,930; Jan. 9; Sp. p. 1886; Gaz. vol. 174; p. 321.
Dayton Telephone Lockout Mfg. Co., The. (See Kneisly, Daniel W., assignor.)
Dayton, William H. (See Walton and Dayton.)
De Angeli, Carlo F. (See Verity, Joseph, assignor.)
De Arment, Welcom B., Greenville, Pa. Rack. No. 1,045,684; Nov. 26; Gaz. vol. 184; p. 1011.
De Bats, Louis H. J., assignor of one-fourth to A. G. Zehner, one-fourth to F. E. Zehner, and one-fourth to J. C. Milleman, Zelienople, Pa. Hoist for crucible-furnaces. No. 1,013,377; Jan. 2; Sp. p. 636; Gaz. vol. 174; p. 101.
De Bevoise, Walter W., Brooklyn, N. Y. Edible cake and making same. No. 1,020,481; Mar. 19; Sp. p. 3119; Gaz. vol. 176; p. 562.
De Bogory, Alexander. (See De Bogory, Progor and A.)
De Bogory, Progor and A., Cocoanut Grove, Fla. Spring-wheel. No. 1,037,602; Sept. 3; Gaz. vol. 182; p. 142.
De Bolt, F. F. (See Archer, William J., assignor.)
De Boos, Charles E., Temora, New South Wales, Australia. Pneumatic hub. No. 1,019,591; Mar. 5; Sp. p. 1309; Gaz. vol. 176; p. 197.
De Bruycker, August M. H., New York, N. Y. Noiseless ash-can. No. 1,028,672; June 4; Sp. p. 1311; Gaz. vol. 179; p. 202.
De Bruycker, August M. H., New York, N. Y. Horseshoe. No. 1,030,168; June 18; Sp. p. 4555; Gaz. vol. 179; p. 787.
De Camp, George. (See Vernon and De Camp.)
De Cazen, Canaan, Montreal, Quebec, Canada. Cigarette-making machine. No. 1,042,652; Oct. 29; Gaz. vol. 183; p. 1138.
De Clairmont, Adolfo, Toledo, Ohio. Spark-plug tester. No. 1,014,207; Jan. 9; Sp. p. 2467; Gaz. vol. 174; p. 415.
De Clairmont, Adolfo, Toledo, Ohio. Attachment for carbureters. No. 1,033,386; July 23; Gaz. vol. 180; p. 994.
De Clairmont, Adolfo, Toledo, Ohio. Device for cleaning explosive-engine cylinders. No. 1,040,147; Oct. 1; Gaz. vol. 183; p. 160.
De Dontney, Verkie L., Denver, Colo. Robe-rail lock for automobiles. No. 1,029,493; June 11; Sp. p. 3086; Gaz. vol. 179; p. 518.
De Fazi, Fulvio, assignor of one-half to W. D. Blossfield, Providence, R. I. Gas-engine piston. No. 1,021,577; Mar. 26; Sp. p. 5484; Gaz. vol. 176; p. 985.
De Forest, Edward L., Westhampton, N. Y. Score-card. No. 1,026,433; May 14; Sp. p. 2966; Gaz. vol. 178; p. 491.
De Forest, Lee, New York, N. Y. System of duplex wireless transmission. No. 1,042,205; Oct. 22; Gaz. vol. 183; p. 955.
De Forest, Lee, New York, N. Y., assignor to De Forest Radio Telephone Co. Transmission of music by electromagnetic waves. No. 1,025,908; May 7; Sp. p. 1791; Gaz. vol. 178; p. 275.
De Forest Radio Telephone Co. (See De Forest, Lee, assignor.)
De Forrest, Charles E., Lima, Ohio. Concrete-block machine. No. 1,013,536; Jan. 2; Sp. p. 977; Gaz. vol. 174; p. 156.
De Fosset, Oscar C., Cincinnati, Ohio. Brine-cooler. No. 1,041,973; Oct. 22; Gaz. vol. 183; p. 879.
De Frese, Samuel E., Chattanooga, Tenn. Attachment for gas-retorts. No. 1,028,000; May 28; Sp. p. 6389; Gaz. vol. 178; p. 1096.
De Gloria, John J., Oakland, Cal. Suppository. No. 1,035,546; Aug. 13; Gaz. vol. 181; p. 418.
De Grey, Gerald, Philadelphia, Pa. Safety connection for gas-fixtures. No. 1,017,654; Feb. 20; Sp. p. 3098; Gaz. vol. 175; p. 560.
De Grody, Martin M., St. Louis, Mo. Waste-receptacle. No. 1,037,174; Aug. 27; Gaz. vol. 181; p. 1041.
De Groff, Admiral N., and C. A. Crandall, Pine River, Wis. Draft attachment. No. 1,040,163; Oct. 1; Gaz. vol. 183; p. 165.
De Haven, James, assignor of one-half to W. R. Jennings, Dante, Va. Nut-lock. No. 1,013,866; Jan. 9; Sp. p. 1734; Gaz. vol. 174; p. 299.
De Haven, Jonathan C., assignor of one-half to B. J. Henney, Carnegie, Pa. Curtain-pole. No. 1,042,093; Oct. 22; Gaz. vol. 183; p. 919.
De Haven, R. L., *et al.* (See Eyth, Lewis J., assignor.)
De Haven, Thomas H., Bellingham, Wash. Auxiliary spade-handle. No. 1,037,734; Sept. 3; Gaz. vol. 182; p. 187.
De Huff, Walter, assignor to The Read Machinery Company, Inc., York, Pa. Stuffing-box. No. 1,032,995; July 16; Gaz. vol. 180; p. 821.
De Jahn, Fredrik W., assignor to General Chemical Company, New York, N. Y. Production of nitric acid. No. 1,023,133; Apr. 16; Sp. p. 2981; Gaz. vol. 177; p. 536.
De Julio, Christ, San Francisco, Cal. Dispenser. No. 1,022,774; Apr. 9; Sp. p. 2194; Gaz. vol. 177; p. 376.
De Kay, Eckford C. (See Dam, Andrew C., assignor.)
De Kleist, August. (See McCormick and De Kleist.)
De Kleist, August, North Tonawanda, N. Y. Pneumatic action for musical instruments. No. 1,041,487; Oct. 15; Gaz. vol. 183; p. 678.
De La Besse, Marie A. J., Paris, France. Propeller for automobile sleighs. No. 1,032,120; July 9; Gaz. vol. 180; p. 479.
De la Rue, Ernest, London, England. Sound-box for talking-machines and other acoustical instruments. No. 1,040,648; Oct. 8; Gaz. vol. 183; p. 365.
De Lan, Richie, Philadelphia, Pa. Automatic record-stopping device for talking-machines. No. 1,042,535; Oct. 29; Gaz. vol. 183; p. 1096.
De Laney, Charles W., Hammond, Ind. Ticket and label cabinet. No. 1,029,346; June 11; Sp. p. 2780; Gaz. vol. 179; p. 468.
De Laney, John C., Watertown, Mass. Woodworking machinery. No. 1,042,331; Oct. 22; Gaz. vol. 183; p. 997.
De Laney, Leo D., and M. A. Holtzbauer, Belmond, Iowa. Milking-machine. No. 1,021,578; Mar. 26; Sp. p. 5485; Gaz. vol. 176; p. 985.
De Lany, Nellie M., Clyde, N. Y. Shoe-lace holder. No. 1,048,051; Dec. 24; Gaz. vol. 185; p. 880.
De Laski, Albert, Weehawken, and P. D. Thropp, assignors to De Laski & Thropp Circular Woven Tire Company, Trenton, N. J. Fabric and yarn therefor. (Reissue.) No. 13,393; Apr. 2; Sp. p. 1334; Gaz. vol. 177; p. 217.
De Laski & Thropp Circular Woven Tire Company. (See De Laski and Thropp, assignors.) (Reissue.)
De Launey, Francis B. (See McKillop, Andrew, assignor.)
De Laval, George, East Orange, N. J., assignor to Henry R. Worthington. Jet-condenser. No. 1,044,504; Nov. 19; Gaz. vol. 184; p. 568.
De Laval, George, East Orange, N. J., assignor to Henry R. Worthington. Jet-condenser. No. 1,044,631; Nov. 19; Gaz. vol. 184; p. 613.
De Laval Separator Company, The. (See Forsberg, Erik A., assignor.)
De Laval Separator Company, The. (See Hulbert, John L., assignor.)
De Laval Separator Company, The. (See Wright, Bert R., assignor.)
De Laval Steam Turbine Company. (See Wallen, Carl R., assignor.)
De Leeuw, Adolph L., Hamilton, assignor to The Cincinnati Milling Machine Company, Cincinnati, Ohio. Vise. No. 1,018,035; Feb. 20; Sp. p. 4004; Gaz. vol. 175; p. 693.
De Leeuw, Adolph L., Hamilton, assignor to The Cincinnati Milling Machine Company, Cincinnati, Ohio. Emergency-clutch. No. 1,035,547; Aug. 13; Gaz. vol. 181; p. 419.
De Lima, Gay B., Syracuse, N. Y. Steeping coffee or tea. No. 1,041,822; Oct. 22; Gaz. vol. 183; p. 828.
De Lisle, Agnes, administratrix. (See De Lisle, Justin.)
De Lisle, Justin, deceased, New York, N. Y.; A. De Lisle, administratrix. Making and packaging butter. No. 1,014,574; Jan. 9; Sp. p. 3236; Gaz. vol. 174; p. 539.
De Loach, Alonzo A., Bridgeport, Ala. Sawmill-dog. No. 1,028,863; June 11; Sp. p. 1715; Gaz. vol. 179; p. 301.
De Long, Charles E., assignor to H. H. Hawley Company, Dallas, Tex. Attachment for lathe head-stocks. No. 1,014,051; Jan. 9; Sp. p. 2159; Gaz. vol. 174; p. 360.
De Long Hook and Eye Company, The. (See Cliff, George H., assignor.)
De Long Hook and Eye Company. (See Curtis, Walter L., assignor.)
De Long Hook & Eye Company, The. (See Grant, Harriott, assignor.)
De Long Hook and Eye Company, The. (See Williams, James P., assignor.)
De Long, John S., Osborn, Ohio. Crate. No. 1,041,751; Oct. 22; Gaz. vol. 183; p. 802.
De Long, Nelson, Chicago, Ill., assignor to Kabo Corset Company. Sewing-machine. No. 1,047,178; Dec. 17; Gaz. vol. 185; p. 546.
De los Rios, Alonzo C., Habana, Cuba. Propeller. No. 1,031,629; July 2; Gaz. vol. 180; p. 271.
De Lukacsevics, Charles, West Nutley, N. J. Siphon-head. No. 1,040,226; Oct. 1; Gaz. vol. 183; p. 185.
De Maine, William A. (See List and De Maine.)
De Mars, Arthur J., *et al.* (See De Mars, Joseph, assignor.)

Alphabetical list of patentees—Continued.

De Mars, Joseph, San Francisco, Cal., assignor of two-fifths to F. M. Johnson, Cheyenne, Wyo., one-fifth to A. J. Walker, Niagara Falls, N. Y., and one-fifth to A. J. De Mars, San Francisco, Cal. Sash lock and antirattler. No. 1,030,506; June 25; Sp. p. 5362; Gaz. vol. 179; p. 947.
De Martis, Horace, London, England. Electric battery. No. 1,030,650; June 25; Sp. p. 5836; Gaz. vol. 179; p. 999.
De Mattia, Constant, assignor to Red Cross Vacuum Cleaner Company, Detroit, Mich. Vacuum-cleaner. No. 1,029,916; June 18; Sp. p. 4045; Gaz. vol. 179; p. 702.
De Mattos, Percy T., *et al.* (See Campbell, Howard S., assignor.)
De Mond, Herman L., Philadelphia, Pa. Comb. No. 1,040,167; Oct. 1; Gaz. vol. 183; p. 166.
De Neen, Albert W., St. Joseph, Mo. Refrigerator. No. 1,020,482; Mar. 19; Sp. p. 3120; Gaz. vol. 176; p. 563.
De Noon, Clyde W., Braddock, Pa. Paint-can. No. 1,022,830; Apr. 9; Sp. p. 2313; Gaz. vol. 177; p. 395.
De Palma, Frank, New York, N. Y. Illuminated enameled-metal barber's pole. No. 1,034,211; July 30; Gaz. vol. 180; p. 1298.
De Pass, Addison R., Columbia, S. C. Means for protecting dental work. No. 1,019,733; Mar. 5; Sp. p. 1571; Gaz. vol. 176; p. 244.
De Pass, Addison R., Columbia, S. C. Protecting dental work. No. 1,035,950; Aug. 20; Gaz. vol. 181; p. 592.
De Pew, Isaiah M., Palma Sola, Fla. Wheel. No. 1,025,900; May 7; Sp. p. 1778; Gaz. vol. 178; p. 273.
De Planty, James. (See Tiffany, Edward D., assignor.)
De Prez, Harry W., Shelbyville, Ind. Apparatus for fuming wood. No. 1,015,008; Jan. 16; Sp. p. 4285; Gaz. vol. 174; p. 720.
De Quillfeldt, Charles, Amityville, N. Y. Attachment for water-closet seats. No. 1,030,720; June 25; Sp. p. 6003; Gaz. vol. 179; p. 1024.
De Raasloff, Harald, and T. E. Brown, New York, N. Y. Centrifugal separator. No. 1,044,570; Nov. 19; Gaz. vol. 184; p. 591.
De Reamer, Frank C., Schenectady, N. Y., assignor to General Electric Company. Incandescent-lamp socket. No. 1,013,135; Jan. 2; Sp. p. 89; Gaz. vol. 174; p. 16.
De Reamer, Frank C., Schenectady, N. Y., assignor to General Electric Company. Pendent snap-switch. No. 1,015,999; Jan. 30; Sp. p. 6392; Gaz. vol. 174; p. 1112.
De Reamer, Frank C., Schenectady, N. Y., assignor to General Electric Company. Snap-switch. No. 1,022,536; Apr. 9; Sp. p. 1650; Gaz. vol. 177; p. 293.
De Rool, Dick. (See Beintema and De Rool.)
De Ryss, Emil. (See Elektorowicz, Emil.)
De Ryss, Emil, New York, N. Y. Station-platform for railways. No. 1,027,107; May 21; Sp. p. 4503; Gaz. vol. 178; p. 758.
De Saulles, Charles A. H., Gas, Kans., assignor to New Jersey Zinc Company, New York, N. Y. Zinc retort-furnace. No. 1,041,977; Oct. 22; Gaz. vol. 183; p. 881.
De Sheppard, Albert C., Bloomsburg, Pa. Hat-pin guard. No. 1,029,049; June 11; Sp. p. 2132; Gaz. vol. 179; p. 367.
De Smith, Henry, assignor to M. D. Knowlton Company, Rochester, N. Y. Mitering-gage for corner-cutting machines. No. 1,018,699; Feb. 27; Sp. p. 5488; Gaz. vol. 175; p. 951.
De Smith, Henry, assignor to M. D. Knowlton Company, Rochester, N. Y. Sheet-cutting machine. No. 1,038,860; Sept. 17; Gaz. vol. 182; p. 639.
De Smith, Henry, assignor to M. D. Knowlton Company, Rochester, N. Y. Machine for applying box-corner stays. No. 1,044,633; Nov. 19; Gaz. vol. 184; p. 614.
De Smith, Henry, and D. Church, assignors to M. D. Knowlton Company, Rochester, N. Y. Box-form-attaching means for box-covering machines. No. 1,036,197; Aug. 20; Gaz. vol. 181; p. 679.
De Tienne, H. G., *et al.* (See Callaway, David A., assignor.)
De Valdes, Elena M., New York, N. Y. Non-refillable-bottle stopper. No. 1,038,311; Sept. 10; Gaz. vol. 182; p. 413.
De Vault, Ralph P., Battle Creek, Mich. Pen. No. 1,037,215; Sept. 3; Gaz. vol. 182; p. 13.
De Veaux, Charles T. (See McPhayden and De Veaux.)
De Viese, McRoy, Fresno, Cal. Puncture-proof tire. No. 1,028,334; June 4; Sp. p. 586; Gaz. vol. 179; p. 88.
De Vilbiss, Allen, Toledo, Ohio. Bone-forceps or the like. No. 1,040,523; Oct. 8; Gaz. vol. 183; p. 317.
De Vilbiss, Allen, Toledo, Ohio. Centering-cap for boring-tools. No. 1,043,408; Nov. 5; Gaz. vol. 184; p. 129.
De Vilbiss, Allen, Jr., Toledo, Ohio, assignor to Toledo Computing Scale Company, Newark, N. J. Scale. No. 1,013,590; Jan. 2; Sp. p. 1071; Gaz. vol. 174; p. 173.
De Vilbiss, Allen, Jr., assignor to Toledo Computing Scale Company, Toledo, Ohio. Weighing-scale. No. 1,028,552; June 4; Sp. p. 1064; Gaz. vol. 179; p. 162.
De Vilbiss Manufacturing Company, The. (See Hansen, Niels M., assignor.)
De Vilbiss, Thomas A., Toledo, Ohio. Demonstrating perfumes or the like. No. 1,031,250; July 2; Gaz. vol. 180; p. 142.
De Vilbiss, Thomas A., Toledo, Ohio. Air-brush. No. 1,045,266; Nov. 26; Gaz. vol. 184; p. 862.
De Ville, Edward J. (See Blackwell and De Ville.)
De Vito, John A., Boston, Mass. Roundabout. No. 1,037,453; Sept. 3; Gaz. vol. 182; p. 95.
De Vlieg, Gerard A., assignor of one-half to C. B. Parsons, Detroit, Mich. Concealed hinge. No. 1,046,999; Dec. 10; Gaz. vol. 185; p. 454.
De Voe, Albert H., Westfield, N. J., assignor to The Singer Manufacturing Company. Strip folding and guiding attachment for sewing-machines. No. 1,024,316; Apr. 23; Sp. p. 5468; Gaz. vol. 177; p. 959.
De Voe, Albert H., Elizabeth, N. J., assignor to The Singer Manufacturing Company. Overseaming sewing-machine. No. 1,026,910; May 21; Sp. p. 4016; Gaz. vol. 178; p. 689.
De Voe, Albert H., Elizabeth, N. J., assignor to The Singer Manufacturing Company. Presser-foot. No. 1,041,251; Oct. 15; Gaz. vol. 183; p. 599.
De Vore, Nellie, Roseville, Ill. Poultry-perch. No. 1,030,980; July 2; Gaz. vol. 180; p. 45.
De Vore, Thomas L., Jacksonville, Oreg. Tip-protector for shoes. No. 1,023,417; Apr. 16; Sp. p. 3551; Gaz. vol. 177; p. 632.
De Vries, Lawrence, Zeeland, Mich. Beet-harvester. No. 1,045,819; Dec. 3; Gaz. vol. 185; p. 8.
De Weese, Albert, Philadelphia, Miss. Selective cotton-chopper. No. 1,033,789; July 30; Gaz. vol. 180; p. 1149.
De Wein, George F., assignor to Allis-Chalmers Company, Milwaukee, Wis. Coal-feeder. No. 1,023,418; Apr. 16; Sp. p. 3552; Gaz. vol. 177; p. 632.
De Wick, William H., Brooklyn, N. Y. Mandolin. No. 1,018,651; Feb. 27; Sp. p. 5402; Gaz. vol. 175; p. 935.
De Wind, Norman, assignor to Austin Manufacturing Company, Chicago, Ill. Road-scarifier. No. 1,030,287; June 25; Sp. p. 4845; Gaz. vol. 179; p. 867.
De Witt, Charles, assignor to C. C. Carter, Baltimore, Md. Bottle-closure. No. 1,018,387; Feb. 20; Sp. p. 4756; Gaz. vol. 175; p. 814.
De Witt, Richard C., Sutter, Cal. Traction-engine. No. 1,040,650; Oct. 8; Gaz. vol. 183; p. 366.
De Witt, Travice N., Baltimore, Md. Cue-tip fastener. No. 1,028,002; May 28; Sp. p. 6393; Gaz. vol. 178; p. 1097.
De Witt, William C., Chicago, Ill. Window-guard. No. 1,041,753; Oct. 22; Gaz. vol. 183; p. 802.
De Witt, William M. (See Brown, John, assignor.)
De Wolfe, Charles H., New York, N. Y. Wagon-body extension. No. 1,028,100; June 4; Sp. p. 17; Gaz. vol. 179; p. 5.
De Wright, Richard, Allegan, Mich. Egg-carrier. No. 1,041,443; Oct. 15; Gaz. vol. 183; p. 663.
De Yongh, Samuel B., New Rochelle, N. Y. Garment-hanger and the like. No. 1,043,679; Nov. 5; Gaz. vol. 184; p. 225.
De Young, Teunis, Jr., South Holland, Ill. Supplementary seat for two-wheel vehicles. No. 1,037,216; Sept. 3; Gaz. vol. 182; p. 13.
De Zeng, Henry L., Maple Shade, N. J. Lens-testing instrument. No. 1,047,000; Dec. 10; Gaz. vol. 185; p. 454.
De Zetter, Henry P., Byron, N. Y. Separator. No. 1,048,052; Dec. 24; Gaz. vol. 185; p. 880.
Deaderick, Thomas, Nashville, Tenn. Adapter. No. 1,035,692; Aug. 13; Gaz. vol. 181; p. 467.
Deakin, Gerald, Berkeley, Cal. Automatic telephone-exchange system. No. 1,024,184; Apr. 23; Sp. p. 5194; Gaz. vol. 177; p. 913.
Deakin, Gerald, Oakland, Cal., assignor of one-half to McMeen & Miller, Chicago, Ill. Telephone-meter. No. 1,045,820; Dec. 3; Gaz. vol. 185; p. 9.
Deakin, James H., Marion, Ind., and H. Schnelbach, Charleroi, assignors to Macbeth-Evans Glass Company, Pittsburgh, Pa. Glassware-finishing machine. No. 1,040,902; Oct. 8; Gaz. vol. 183; p. 447.
Deal, Charles A., and M. E. Cox, Los Angeles, Cal. Starting mechanism for internal-combustion engines. No. 1,046,277; Dec. 3; Gaz. vol. 185; p. 167.
Deal, Daniel K. (See Hogarth and Deal.)
Deal, Enan M., assignor to E. A. Schneider, Philadelphia, Pa. Wheel. No. 1,025,790; May 7; Sp. p. 1494; Gaz. vol. 178; p. 236.
Dean, Charles B. (See Dearborn, Richard J., assignor.)
Dean, Charles J., Blasdell, N. Y. Spring-wheel. No. 1,038,535; Sept. 17; Gaz. vol. 182; p. 525.
Dean, David L. (See Best and Dean.)
Dean Electric Company, The. (See Barbour, John F., assignor.)
Dean Electric Company, The. (See Dean, William W., assignor.)
Dean Electric Company, The. (See Halldow, John, assignor.)
Dean Electric Company, The. (See Kennedy, James, assignor.)
Dean Electric Company, The. (See Libby, Albion D. T., assignor.)
Dean Electric Company, The. (See Manson, Ray H., assignor.)
Dean Electric Company, The. (See Richey, Francis O., assignor.)
Dean, Harry. (See Turner and Dean.)

Alphabetical list of patentees—Continued.

Dean, Henry S., London, England. Apparatus for packing or stuffing articles. No. 1,022,305; Apr. 2; Sp. p. 1151; Gaz. vol. 177; p. 185.
Dean, Irwin A., assignor of one-half to F. N. C. Jerauld, Niagara Falls, N. Y. Window-locking device. No. 1,041,042; Oct. 15; Gaz. vol. 183; p. 528.
Dean, James H., Chicago, Ill., assignor, by mesne assignments, to Empire Voting Machine Company. Voting-machine. No. 1,013,646; Jan. 2; Sp. p. 1207; Gaz. vol. 174; p. 193.
Dean, James H., Chicago, Ill., assignor to Empire Voting Machine Company, Jamestown, N. Y. Voting-machine. No. 1,024,123; Apr. 23; Sp. p. 5065; Gaz. vol. 177; p. 892.
Dean, James H., Chicago, Ill., assignor, by mesne assignments, to Empire Voting Machine Company, Rochester, N. Y. Voting-machine. No. 1,031,171; July 2; Gaz. vol. 180; p. 114.
Dean, James H., Chicago, Ill., assignor, by mesne assignments, to Empire Voting Machine Company. Voting-machine. No. 1,036,464; Aug. 20; Gaz. vol. 181; p. 771.
Dean, John, Racine, Wis. Nut-lock. No. 1,048,811; Dec. 31; Gaz. vol. 185; p. 1180.
Dean, John W., Lunenburg, Nova Scotia, Canada. Rail-tie. No. 1,035,693; Aug. 13; Gaz. vol. 181; p. 467.
Dean, Samuel, Wellington, Mich. Spirit-level. No. 1,038,536; Sept. 17; Gaz. vol. 182; p. 526.
Dean, Warren E., Carmangay, Alberta, Canada. Staple. No. 1,021,664; Mar. 26; Sp. p. 5629; Gaz. vol. 176; p. 1013.
Dean, William. (See Drew, Arkinstall, and Dean.)
Dean, William. (See Drew, Arkinstall, Dean, and Howarth.)
Dean, William G., *et al.* (See Rice, Thomas G., assignor.)
Dean, William W., assignor to Kellogg Switchboard & Supply Company, Chicago, Ill. Telephone system. No. 1,013,865; Jan. 9; Sp. p. 1726; Gaz. vol. 174; p. 298.
Dean, William W., assignor to The Dean Electric Company, Elyria, Ohio. Telephone-receiver. No. 1,021,920; Apr. 2; Sp. p. 352; Gaz. vol. 177; p. 58.
Dean, William W., assignor to The Dean Electric Company, Elyria, Ohio. Ringer. No. 1,022,065; Apr. 2; Sp. p. 663; Gaz. vol. 177; p. 106.
Dean, William W., assignor to The Dean Electric Company, Elyria, Ohio. Dynamo-electric machine. No. 1,026,737; May 21; Sp. p. 3624; Gaz. vol. 178; p. 630.
Dean, William W., assignor, to The Dean Electric Company, Elyria, Ohio. Telephone. No. 1,036,805; Aug. 27; Gaz. vol. 181; p. 918.
Dean, William W., assignor to The Dean Electric Company, Elyria, Ohio. Pole-changer. No. 1,043,906; Nov. 12; Gaz. vol. 184; p. 332.
Dean, William W., assignor to The Dean Electric Company, Elyria, Ohio. Telephone-exchange system. No. 1,044,865; Nov. 19; Gaz. vol. 184; p. 695.
Dean, William W., North Ridgeville, assignor to The Dean Electric Company, Elyria, Ohio. Governing device. No. 1,039,107; Sept. 24; Gaz. vol. 182; p. 737.
Deaner, Henry S., Sr., Philadelphia, Pa. Hat-pin holder and sheath. No. 1,020,131; Mar. 12; Sp. p. 2398; Gaz. vol. 176; p. 409.
Dearborn, Charles A., assignor to D. J. Newland, New York, N. Y. Stitch-forming mechanism for sewing-machines. No. 1,018,885; Feb. 27; Sp. p. 5881; Gaz. vol. 175; p. 1014.
Dearborn, Charles A., assignor to D. J. Newland, New York, N. Y. Work holding and feeding means for sewing-machines. No. 1,025,082; Apr. 30; Sp. p. 7155; Gaz. vol. 177; p. 1256.
Dearborn, Eugene L., Fairfield, Cal. Platting-box. No. 1,018,607; Feb. 27; Sp. p. 5308; Gaz. vol. 175; p. 921.
Dearborn, Franklin J., Oakland, Cal. Belt conveyer. No. 1,041,439; Oct. 15; Gaz. vol. 183; p. 662.
Dearborn, Franklin J., Oakland, Cal. Excavating-machine. No. 1,041,603; Oct. 15; Gaz. vol. 183; p. 714.
Dearborn, Richard J., Beverly, assignor of one-half to C. B. Dean, Boston, Mass. Knife-sharpener. No. 1,015,148; Jan. 16; Sp. p. 4549; Gaz. vol. 174; p. 767.
Dearborn, Richard J., Edgewood Park, Pa., assignor to Westinghouse Electric and Manufacturing Company. Dynamo-electric machine. No. 1,042,408; Oct. 29; Gaz. vol. 183; p. 1051.
Dearing, David M., Jackson, Mich. Running-gear for motor-vehicles. No. 1,026,851; May 21; Sp. p. 3875; Gaz. vol. 178; p. 669.
Deatherage, Samuel A., Richmond, Ky. Tire. No. 1,020,804; Mar. 19; Sp. p. 3827; Gaz. vol. 176; p. 670.
Deatherage, Samuel A., Richmond, Ky. Tire. No. 1,027,999; May 28; Sp. p. 6389; Gaz. vol. 178; p. 1096.
Deatrich, George W., Sr., Schuylkill Haven, Pa. Stair-carpet fastener. No. 1,033,678; July 23; Gaz. vol. 180; p. 1087.
Deats, William, Yonkers, N. Y. Automatic disk-feed. No. 1,031,694; July 9; Gaz. vol. 180; p. 336.
Deats, William, Yonkers, N. Y., assignor to Automatic Packing and Labeling Company, Durham, N. C. Automatic weighing mechanism. No. 1,013,136; Jan. 2; Sp. p. 89; Gaz. vol. 174; p. 16.
Debas, Paul, Savoie, assignor to Société des Carbures Metalliques, Paris, France. Alloy. No. 1,014,642; Jan. 16; Sp. p. 3460; Gaz. vol. 174; p. 595.
Debes, Victor A., Wilkinsburg, assignor, by mesne assignments, to The Colonial Trust Company, trustee, Pittsburgh, Pa. Thrust-block. No. 1,020,745; Mar. 19; Sp. p. 3715; Gaz. vol. 176; p. 651.
Debley, Edward F., assignor to Campbell's Automatic Safety Gas Burner Co., Portland, Oreg. Safety gas-burner. No. 1,038,096; Sept. 10; Gaz. vol. 182; p. 341.
Debley, Edward F., assignor to Campbell's Automatic Safety Gas Burner Co., Portland, Oreg. Automatic cut-off valve for fluid-hydrocarbon burners. No. 1,038,097; Sept. 10; Gaz. vol. 182; p. 342.
Debley, Edward F., Linnton, assignor to M. C. Bingham, Portland, Oreg. Automatic cut-off for gas-burners. No. 1,041,972; Oct. 22; Gaz. vol. 183; p. 879.
Debourg, Jean M. J., Lyon, France. Converting vegetable fibers into threads of silky appearance. No. 1,018,650; Feb. 27; Sp. p. 5401; Gaz. vol. 175; p. 935.
Debrie, Edouard, Paris, France. Signal-indicating device for railways. No. 1,032,994; July 16; Gaz. vol. 180; p. 820.
Debrowsky, George. (See Kenitz and Debrowsky.)
Deck, William A., Newark, Ohio. Smoke-flue base. No. 1,036,465; Aug. 20; Gaz. vol. 181; p. 771.
Deckard. Isaac L. (See Deckard, John C. and I. L.)
Deckard, John C. and I. L., Vincennes, Ind. Spring-wheel. No. 1,021,355; Mar. 26; Sp. p. 4981; Gaz. vol. 176; p. 909.
Deckebach, Henry E., Cincinnati, Ohio. Removing alcohol from and purifying beer. No. 1,017,086; Feb. 13; Sp. p. 1925; Gaz. vol. 175; p. 330.
Deckebach, Henry E., Cincinnati, Ohio. Stop-cock. No. 1,038,308; Sept. 10; Gaz. vol. 182; p. 412.
Deckebach, Henry E., Cincinnati, Ohio. Evaporating-pan for driving off alcohol from malt liquors. No. 1,040,287; Oct. 8; Gaz. vol. 183; p. 236.
Decker, Alonzo G., Orangeville, Md., assignor to International Taxameter Company of America, New York, N. Y. Fare-indicator. No. 1,013,279; Jan. 2; Sp. p. 413; Gaz. vol. 174; p. 67.
Decker, Arthur, *et al.* (See Troxler, Gustavus, assignor.)
Decker, Ellen W., New York, N. Y. Stocking. No. 1,036,196; Aug. 20; Gaz. vol. 181; p. 678.
Decker, Frank, Rochester, N. Y. Cheese-cutting machine. No. 1,022,125; Apr. 2; Sp. p. 786; Gaz. vol. 177; p. 125.
Decker, Fred H., Bristol, Pa., and L. J. Stilling, Newark, N. J. Vacuum-bottle. No. 1,044,757; Nov. 19; Gaz. vol. 184; p. 659.
Decker, Harry R., Houston, Tex. Boring-tool. No. 1,039,909; Oct. 1; Gaz. vol. 183; p. 80.
Decker, Harry R., Houston, Tex. Rotary. No. 1,044,630; Nov. 19; Gaz. vol. 184; p. 613.
Decker, Harry R., Houston, Tex. Hole-straightener. No. 1,045,954; Dec. 3; Gaz. vol. 185; p. 54.
Decker, Jacob F., Albany, N. Y. Machine for heating and distributing materials. No. 1,047,619; Dec. 17; Gaz. vol. 185; p. 705.
Decker, Theodore A., Chicago, Ill. Food or condiment holder. No. 1,038,098; Sept. 10; Gaz. vol. 182; p. 342.
Decker, William L., Mollendo, Peru. Stay-bolt and means for screwing the same in place. No. 1,041,440; Oct. 15; Gaz. vol. 183; p. 662.
Deckert, Harry C., St. Louis, Mo. Candle-holder. No. 1,021,921; Apr. 2; Sp. p. 355; Gaz. vol. 177; p. 59.
Dederick, Ezra, Wisconsin Veterans Home, Wis. Roller-bearing. No. 1,029,797; June 18; Sp. p. 3755; Gaz. vol. 179; p. 661.
Dee, Daniel, assignor of one-half to E. C. Stratford, Pocatello, Idaho. Grate-bar. No. 1,017,653; Feb. 20; Sp. p. 3097; Gaz. vol. 175; p. 560.
Dee, Daniel, assignor of one-half to E. C. Stratford, Pocatello, Idaho. Grate. No. 1,026,152; May 14; Sp. p. 2344; Gaz. vol. 178; p. 396.
Dee, David G., assignor to Denio General Electric Company, Rochester, N. Y. Fire-alarm system. No. 1,015,789; Jan. 30; Sp. p. 5944; Gaz. vol. 174; p. 1040.
Deegan, Edward J., New York, N. Y. Mechanism suitable for use at or as part of a damper-regulating apparatus. (Reissue.) No. 13,346; Jan. 2; Sp. p. 1690; Gaz. vol. 174; p. 267.
Deegan, James R. (See Willhide, Bruce, assignor.)
Deegans, William E., *et al.* (See Deviese, John T., assignor.)
Deeks, Annie E., *et al.* (See Deeks, Catharine M., assignor.)
Deeks, Catharine M., assignor to M. C. L., F. A., and A. E. Deeks, Toronto, Ontario, Canada. Weed-root cutter. No. 1,025,965; May 14; Sp. p. 1915; Gaz. vol. 178; p. 330.
Deeks, Florence A., *et al.* (See Deeks, Catharine M., assignor.)
Deeks, Mabel C. L., *et al.* (See Deeks, Catharine M., assignor.)
Deemar, Henry V., St. Louis, Mo. Gas-burner. No. 1,047,392; Dec. 17; Gaz. vol. 185; p. 624.
Deere & Company. (See Kiel, John C., assignor.)
Deere & Company. (See Love, Robert, assignor.)
Deere & Company. (See Mixter, George W., assignor.)
Deere & Company. (See Payton, Richard, assignor.)
Deere & Mansur Company. (See White, Charles E., assignor.)

Alphabetical list of patentees—Continued.

Dees, Mark A., Pascagoula, Miss., assignor to American Tire Company, St. Louis, Mo. Pneumatic tire. No. 1,040,647; Oct. 8; Gaz. vol. 183; p. 365.
Dees, Mark A., Pascagoula, Miss., assignor to American Tire Company, St. Louis, Mo. Pneumatic tire. No. 1,045,955; Dec. 3; Gaz. vol. 185; p. 55.
Defatsch, Joseph, Newark, N. J. Folding table. No. 1,034,885; Aug. 6; Gaz. vol. 181; p. 163.
Defenbacher, J. F., *et al.* (See Schorndorfer, Edward E., assignor.)
Defenbacher, W. E., *et al.* (See Schorndorfer, Edward E., assignor.)
Defiance Machine Works. (See Ensign, George A., assignor.)
Defiance Machine Works. (See Root, Frank T., assignor.)
Defiance Pressed Steel Company, The. (See Klenk, Gottlieb, assignor.)
Deforest Sheet & Tinplate Company, The. (See Riegel, Clarence H., assignor.)
Degener, Gustave O., assignor to Underwood Computing Machine Company, New York, N. Y. Computing-machine. No. 1,013,378; Jan. 2; Sp. p. 638; Gaz. vol. 174; p. 101.
Degener, Gustave O., assignor to Underwood Computing Machine Company, New York, N. Y. Combined typewriting and computing machine. No. 1,020,082; Mar. 12; Sp. p. 2283; Gaz. vol. 176; p. 393.
Degener, Heinrich, Berlin, Germany, assignor to Mergenthaler Linotype Company. Linotype-machine. No. 1,017,387; Feb. 13; Sp. p. 2559; Gaz. vol. 175; p. 433.
Degenhardt, John J., Elkville, Ill. Pin and flower holder. No. 1,039,910; Oct. 1; Gaz. vol. 183; p. 80.
Degeorgis, Gaston E. E., St.-Denis, Seine, France. Means for protecting water-gage tubes of steam-boilers. No. 1,014,456; Jan. 9; Sp. p. 3027; Gaz. vol. 174; p. 502.
Degner, Herman C., Jr., Los Angeles, Cal. Collar-button. No. 1,026,153; May 14; Sp. p. 2345; Gaz. vol. 178; p. 396.
Degraw, Abbie, Provo, Utah. Scrubbing-machine. No. 1,030,392; June 25; Sp. p. 5082; Gaz. vol. 179; p. 906.
Dehainault, Charles. (See Auscher and Dehainault.)
Dehais, Louis J. C. G., Paris, France. Detachable rim for carriage-wheels. No. 1,034,385; July 30; Gaz. vol. 180; p. 1360.
Dehler, Albert S., Minneapolis, assignor to Mathews Gravity Carrier Company, St. Paul, Minn. Elevator. No. 1,020,746; Mar. 19; Sp. p. 3716; Gaz. vol. 176; p. 652.
Dehler, Edward P., St. Joseph, Mo. Combination fly, roach, and mouse trap. No. 1,046,993; Dec. 10; Gaz. vol. 185; p. 452.
Dehlinger, Alexander H. A., Rosholt, Wis. Wire-tightener. No. 1,026,974; May 21; Sp. p. 4174; Gaz. vol. 178; p. 712.
Dehlinger, Carl N., Wausau, Wis. Carpet-stretcher. No. 1,033,552; July 23; Gaz. vol. 180; p. 1047.
Dehlinger, Carl N., Wausau, Wis. Stone-gathering machine. No. 1,042,653; Oct. 29; Gaz. vol. 183; p. 1139.
Dehls, John C. (See Stein, Leo, assignor.)
Dehn, George J., Chicago, Ill. Drain-trap. No. 1,046,741; Dec. 10; Gaz. vol. 185; p. 369.
Dehn, Martin, Buffalo, N. Y. Hook for hanging pictures and the like. No. 1,034,886; Aug. 6; Gaz. vol. 181; p. 164.
Dehn, Martin, Buffalo, N. Y. Hook for hanging pictures and the like. No. 1,039,367; Sept. 24; Gaz. vol. 182; p. 829.
Dehnst, Julius. (See Seidenschnur and Dehnst.)
Dehnst, Julius, Halensee, near Berlin, Germany. Preparing an oil suitable for impregnating porous bodies. No. 1,041,604; Oct. 15; Gaz. vol. 183; p. 714.
Deibel, Robert, Charlottenburg, assignor to Siemens & Halske Aktiengesellschaft, Berlin, Germany. Terminal insulator in junction-boxes or the like. No. 1,027,404; May 28; Sp. p. 5112; Gaz. vol. 178; p. 897.
Deidrick, Joseph W. (See Vargyas and Deidrick.)
Deiller, Eugene M. (See Deiller, Martin and E. M.)
Deiller, Martin, Newark, N. J., assignor to Universal Tobacco Machine Company. Device for removing gum from cutters of tobacco-stripping machines. No. 1,046,994; Dec. 10; Gaz. vol. 185; p. 452.
Deiller, Martin and E. M., Newark, N. J., assignors to Universal Tobacco Machine Company. Clutch. No 1,046,995; Dec. 10; Gaz. vol. 185; p. 453.
Deimel, Fritz, Berlin, Germany; J. Simson, attorney in fact, assignor to said J. Simson, individually. Frictional pocket-igniter. No. 1,018,100; Feb. 20; Sp. p. 4164; Gaz. vol. 175; p. 716.
Deimling, John P., assignor of one-third to W. Graham, Clarion, Pa. Folding step. No. 1,048,502; Dec. 31; Gaz. vol. 185; p. 1070.
Deininger, John, Ulm, Wurttemberg, Germany. Ice-breaker. No. 1,041,605; Oct. 15; Gaz. vol. 183; p. 715.
Deinlein, Max, assignor to Trautmann & Mayer, Munich, Germany. Regenerating storage-battery plates. No. 1,034,887; Aug. 6; Gaz. vol. 181; p. 164.
Deister Concentrator Company, The. (See Deister, Emil, assignor.)
Deister, Emil, Fort Wayne, Ind., assignor to The Deister Concentrator Company. Ore-concentrator. No. 1,019,884; Mar. 12; Sp. p. 1874; Gaz. vol. 176; p. 327.
Deister, Emil, assignor to The Deister Concentrator Company, Fort Wayne, Ind. Ore-concentrator. No. 1,040,288; Oct. 8; Gaz. vol. 183; p. 236.
Deister, Emil, assignor to The Deister Concentrator Company, Fort Wayne, Ind. Ore-concentrator. No. 1,044,030; Nov. 12; Gaz. vol. 184; p. 376.
Deister, Emil and W. F., Fort Wayne, Ind. Concentrating-table. No. 1,040,164; Oct. 1; Gaz. vol. 183; p. 165.
Deister, Emil and W. F., Fort Wayne, Ind. Concentrating-table. No. 1,040,165; Oct. 1; Gaz. vol. 183; p. 165.
Deister, William F. (See Deister, Emil and W. F.)
Deister, William F., Fort Wayne, Ind. Slime-concentrator. No. 1,037,212; Sept. 3; Gaz. vol. 182; p. 12.
Deitrick, Charles F., Berwick, Pa. Miter-machine. No. 1,048,447; Dec. 24; Gaz. vol. 185; p. 1013.
Deitz, Henry, Denver, Colo. Rock-drill. No, 1,043,302; Nov. 5; Gaz. vol. 184; p. 92.
Deitz, John H., Allenport, Pa. Curtain-fixture. No. 1,022,227; Apr. 2; Sp. p. 1010; Gaz. vol. 177; p. 162.
Dekle, John H., Register, Ga. Cultivator. No. 1,041,043; Oct. 15; Gaz. vol. 183; p. 529.
Del Collado, Francisco. (See Yuste and Del Collado.)
Del Mar, Eugene. (See Noll, John, assignor.)
Del Valle Atiles, Francisco de A., San Juan, Porto Rico. Telegraph transmitting-machine. No. 1,027,376; May 21; Sp. p. 5045; Gaz. vol. 178; p. 849.
Delac Plaster Co. (See Cameron, De Lancey A., assignor.)
Delafield, Benjamin T., assignor of one-fourth to J. E. Weaver, Kansas City, Mo. Boat. No. 1,022,725; Apr. 9; Sp. p. 2094; Gaz. vol. 177; p. 360.
Delafond, Elie, Mexico, Mexico. Decorticating-machine. No. 1,023,508; Apr. 16; Sp. p. 3731; Gaz. vol. 177; p. 660.
Delahanty, John J. (See Smith, Martin V., assignor.)
Delahunty, Clarence P., West Pittston, Pa. Closing device for dyeing-vats. No. 1,049,322; Dec. 31; Gaz. vol. 185; p. 1354.
Delamater, George R., Strong, Colo. Apparatus for separating materials of different specific gravity. No. 1,046,447; Dec. 10; Gaz. vol. 185; p. 263.
Delaney, John. (See Gosswiller, Michael F., assignor.)
Delaney, Joseph P., assignor to Municipal Supplies Company, Pittsburgh, Pa. Pressure-regulating valve. No. 1,028,098; June 4; Sp. p. 12; Gaz. vol. 179; p. 5.
Delaney, Michael G., assignor of one-half to L. C. Hunter, Detroit, Mich. Laundry-stick. No. 1,046,151; Dec. 3; Gaz. vol. 185; p. 121.
Delaney, Richard, Boston, Mass. Rope and twine making machine. No. 1,031,695; July 9; Gaz. vol. 180; p. 336.
Delano, Charles G., Taunton, Mass. Overshoe for horses. No. 1,040,166; Oct. 1; Gaz. vol. 183; p. 166.
Delano, James K., Jr., Chicago, Ill. Electric-lighting system for self-propelled vehicles. No. 1,027,700; May 28; Sp. p. 5710; Gaz. vol. 178; p. 995.
Delanoy, Frederick W., Alameda, Cal. Core-making machine. No. 1,017,039; Feb. 13; Sp. p. 1792; Gaz. vol. 175; p. 312.
Delaplain, Guy A. (See Price and Delaplain.)
Delaunay-Belleville, Louis M. G., assignor to The Société Anonyme des Automobiles Delaunay-Belleville, St.-Denis, France. Power-transmission mechanism. No. 1,026,498; May 14; Sp. p. 3104; Gaz. vol. 178; p. 512.
Delaunay-Belleville, Louis M. G., assignor to The Societe Anonyme Des Etablissements Delaunay-Belleville, St. Denis, France. Steam-generator. No. 1,031,776; July 9; Gaz. vol. 180; p. 364.
Delaware Gas Light Company. (See Roessler and Armington, assignors.)
Delbrück, Konrad. (See Hofmann, Delbrück, and Meisenburg.)
Delcampe, Cyrille, Bridgeport, Conn. Acetylene-generator. No. 1,038,489; Sept. 10; Gaz. vol. 182; p. 475.
Delehant, John J., Chicago, Ill. Support for tools. No. 1,040,903; Oct. 8; Gaz. vol. 183; p. 447.
Delffs, Arnold, National Soldiers Home, Tenn. Envelop. No. 1,045,001; Nov. 19; Gaz. vol. 184; p. 742.
Delihanty, John P., Pueblo, Colo. Wire-nail feeder. No. 1,026,567; May 14; Sp. p. 3235; Gaz. vol. 178; p. 535.
Delin, Claude C., Sancerre, France. Motor-plow. No. 1,047,507; Dec. 17; Gaz. vol. 185; p. 665.
Deline, Irving A., Denver, Colo. Game apparatus. No. 1,040,521; Oct. 8; Gaz. vol. 183; p. 316.
Delius, George, and C. P. Tatro, Seattle, Wash. Protecting ships from barnacles. No. 1,021,734; Mar. 26; Sp. p. 5770; Gaz. vol. 176; p. 1036.
Dell, John, St. Louis, Mo., and G. H. Niles, Babylon, N. Y.; said Niles assignor to said Dell. Combined dip-regulator and tar-seal. No. 1,041,044; Oct. 15; Gaz. vol. 183; p. 529.
Dell, John C., Philadelphia, Pa. Grinding-mill. No. 1,043,513; Nov. 5; Gaz. vol. 184; p. 168.
Dell, Norman E., assignor of one-third to Martin Jex & Company, Cobourg, Ontario, Canada. Automatic gate for railway-crossings. No. 1,043,907; Nov. 12; Gaz. vol. 184; p. 333.
Della Torre, Frank, Baltimore, Md. Locophone. No. 1,035,920; Aug. 20; Gaz. vol. 181; p. 581.

Alphabetical list of patentees—Continued.

Dellamore, Albert, Los Angeles, Cal. Automobile turntable. No. 1,038,309; Sept. 10; Gaz. vol. 182; p. 412.
Dellwik, Carl, London, England. Method of and apparatus for agglomerating fine ores, metalliferous residues, &c. No. 1,039,706; Oct. 1; Gaz. vol. 183; p. 11.
Dellwik-Fleischer Wassergas-Gesellschaft m. b. H. (See Dolenský, Eugen, assignor.)
Delmez, Celestin, Antwerp, Belgium. Apparatus for mechanically cleaning the rails of tramways or the like. No. 1,032,275; July 9; Gaz. vol. 180; p. 534.
Delmore, Joseph M., Los Angeles, Cal. Underreamer. No. 1,031,628; July 2; Gaz. vol. 180; p. 270.
Delorme, Louis A., *et al.* (See Lord, Peter, assignor.)
Delphos Manufacturing Company, The. (See Warnick and Leilich, assignors.)
Delsuc, Jean B. E., Paris, France. Water tap or faucet. No. 1,047,763; Dec. 17; Gaz. vol. 185; p. 756.
Delta-Star Electric Company. (See Hall, Chester P., assignor.)
Deluca, Joseph, *et al.* (See Holmes, Gwyllym R., assignor.)
Demarest, Charles S. (See Howe, Demarest, and Healey.)
Demarest, D. C. (See Mayers, Alfred C., assignor.)
Demarest, David C. (See Gruss and Demarest.)
Demarest, David C., San Francisco, Cal. Rock-drill. No. 1,029,855; June 18; Sp. p. 3909; Gaz. vol. 179; p. 680.
Demarest, John, Springfield, Mass. Check-damper. No. 1,027,037; May 21; Sp. p. 4331; Gaz. vol. 178; p. 735.
Dematteis, Julian, Batavia, Iowa. Floor scrubbing and polishing machine. No. 1,046,742; Dec. 10; Gaz. vol. 185; p. 369.
Dembowsky, Emil, Metuchen, N. J. Engine. No. 1,041,606; Oct. 15; Gaz. vol. 183; p. 715.
Demers, Joseph A., St. Romuald, Quebec, Canada. Automatic train stop and signal. No. 1,026,852; May 21; Sp. p. 3876; Gaz. vol. 178; p. 669.
Demers, Napoleon, Sherbrooke, Quebec, Canada. Bobbin-boring machine. No. 1,031,108; July 2; Gaz. vol. 180; p. 92.
Demery, Joseph H., assignor to Max Zeitler Engraving & Supply Co., Philadelphia, Pa. Attachment for power embossing-presses. No. 1,032,469; July 16; Gaz. vol. 180; p. 644.
Demery, Thomas R., assignor to Max Zeitler Engraving & Supply Co., Philadelphia, Pa. Printing from engraved plates. No. 1,025,250; May 7; Sp. p. 318; Gaz. vol. 178; p. 51.
Deming Company, The. (See Deming, William L., assignor.)
Deming, William L., Salem, Ohio. Documentary distributing device. No. 1,027,701; May 28; Sp. p. 5712; Gaz. vol. 178; p. 995.
Deming, William L., Salem, Ohio. Game-counter. No. 1,028,935; June 11; Sp. p. 1888; Gaz. vol. 179; p. 326.
Deming, William L., assignor to The Deming Company, Salem, Ohio. Fire-extinguishing apparatus. No. 1,038,859; Sept. 17; Gaz. vol. 182; p. 639.
Deming, William L., assignor to The Deming Company, Salem, Ohio. Bucket-valve. No. 1,044,149; Nov. 12; Gaz. vol. 184; p. 416.
Demmler, Henry L., Kewanee, Ill. Automatic valve mechanism for bumping-machines. No. 1,042,094; Oct. 22; Gaz. vol. 183; p. 919.
Demmler, Henry L., Kewanee, Ill. Bumping-machine. No. 1,045,956; Dec. 3; Gaz. vol. 185; p. 55.
Demmler, John, Grove City, Pa. Transmission-gearing. No. 1,040,649; Oct. 8; Gaz. vol. 183; p. 366.
Demonte, Mario, Gorizia, Austria-Hungary. Starting device for motor-vehicles and the like. No. 1,028,686; June 4; Sp. p. 1332; Gaz. vol. 179; p. 206.
Dempewolf, Otto, assignor to Bremer & Brückmann, Brunswick, Germany. Means for feeding metal sheets. No. 1,027,598; May 28; Sp. p. 5501; Gaz. vol. 178; p. 962.
Dempsey, Irving L., Galena, Md. Timing mechanism for planters. No. 1,047,764; Dec. 17; Gaz. vol. 185; p. 756.
Dempsey, Irving L., Galena, Md. Automatic window-sash holder. No. 1,048,663; Dec. 31; Gaz. vol. 185; p. 1127.
Dempsey, James T., assignor of one-half to W. H. Daniels, Kansas City, Kans. Non-refillable bottle. No. 1,038,496; Sept. 10; Gaz. vol. 182; p. 477.
Dempsey, James T., assignor of one-half to W. H. Daniels, Kansas City, Kans. Non-refillable bottle. No. 1,038,497; Sept. 10; Gaz. vol. 182; p. 478.
Dempster, John, Knoxville, Tenn. Roach-trap. No. 1,024,767; Apr. 30; Sp. p. 6524; Gaz. vol. 177; p. 1149.
Dempster, John T., Schenectady, N. Y., assignor to General Electric Company. Oscillograph. No. 1,019,432; Mar. 5; Sp. p. 989; Gaz. vol. 176; p. 145.
Dempster, John T., Schenectady, N. Y., assignor to General Electric Company. Vibrating rectifier. No. 1,019,608; Mar. 5; Sp. p. 1338; Gaz. vol. 176; p. 202.
Dempster, John T. H., Schenectady, N. Y., assignor to General Electric Company. Decarburized silicon and making the same. No. 1,019,431; Mar. 5; Sp. p. 988; Gaz. vol. 176; p. 145.
Dempster, John T. H., Schenectady, N. Y., assignor to General Electric Company. Wire-drawing. No. 1,022,182; Apr. 2; Sp. p. 911; Gaz. vol. 177; p. 145.
Dempster, John T. H., Schenectady, N. Y., assignor to General Electric Company. Protective covering for resistance-conductors. No. 1,028,444; June 4; Sp. p. 848; Gaz. vol. 179; p. 127.
Dempster, John T. H., Schenectady, N. Y., assignor to General Electric Company. Arc-light electrode and making the same. No. 1,041,752; Oct. 22; Gaz. vol. 183; p. 802.
Dempster, John T. H., Schenectady, N. Y., assignor to General Electric Company. Arc-lamp globe. No. 1,046,152; Dec. 3; Gaz. vol. 185; p. 122.
Dempster, Leonard E., Schenectady, N. Y., assignor to General Electric Company. Machine for forming filaments. No. 1,024,185; Apr. 23; Sp. p. 5211; Gaz. vol. 177; p. 913.
Dempster Mill Manufacturing Company. (See Hoag and Thomas, assignors.)
Demuth, Arthur B., assignor of one-half to G. W. Stevens, San Diego, Cal. Signal for automobiles. No. 1,033,305; July 23; Gaz. vol. 180; p. 967.
Denaro, Vincenzo, Newton, Conn. Fire-escape. No. 1,028,687; June 4; Sp. p. 1334; Gaz. vol. 179; p. 206.
Denegar, Norton M., Hudson, N. Y. Shaper-machine. No. 1,016,253; Feb. 6; Sp. p. 20; Gaz. vol. 175; p. 6.
Dénes, Aladár, assignor to M. Eisner, Berlin, Germany. Instrument for centering purposes. No. 1,038,729; Sept. 17; Gaz. vol. 182; p. 593.
Dengler, William, New Rochelle, N. Y. Nose guard or clip for eyeglasses. No. 1,034,588; Aug. 6; Gaz. vol. 181; p. 62.
Denham, Charles. (See Vise and Denham.)
Denham, Dan F., Laurel, Miss. Piston-lift. No. 1,019,433; Mar. 5; Sp. p. 993; Gaz. vol. 176; p. 145.
Denicke, Fredrick H., Mauston, Wis. Soldering-iron heater. No. 1,034,589; Aug. 6; Gaz. vol. 181; p. 62.
Denief, George W. (See Howard and Denief.)
Denio General Electric Company. (See Dee, David G., assignor.)
Denio, Robert J., Kerman, Cal. Clutch. No. 1,043,406; Nov. 5; Gaz. vol. 184; p. 129.
Denis, Hector. (See Dubosc, Luttringer, and Denis.)
Denitz, Phillip, Los Angeles, and A. Jacobs, Bakersfield, assignors to Crescent Door Holder Company, Los Angeles, Cal. Door-holder. No. 1,045,127; Nov. 26; Gaz. vol. 184; p. 814.
Denker, Charles T., Chicago, Ill. Exhaust-valve mechanism. No. 1,013,867; Jan. 9; Sp. p. 1734; Gaz. vol. 174; p. 299.
Denlinger, Harry T., Lancaster, Pa. Figure toy. No. 1,024,314; Apr. 23; Sp. p. 5466; Gaz. vol. 177; p. 958.
Denman, Charles F., assignor of one-half to C. A. Knight, Nicholasville, Ky. Toy. No. 1,043,808; Nov. 12; Gaz. vol. 184; p. 299.
Denman, Frederick, Highland Park, Ill. Vehicle-spring. No. 1,022,775; Apr. 9; Sp. p. 2195; Gaz. vol. 177; p. 377.
Denmead, John W., Akron, Ohio. Dipping-machine. No. 1,015,998; Jan. 30; Sp. p. 6389; Gaz. vol. 174; p. 1111.
Denmead, John W., Akron, assignor to The K. S. Box and Label Company, Cleveland, Ohio. Scoring-machine. No. 1,033,881; July 30; Gaz. vol. 180; p. 1183.
Denmead, John W., Akron, Ohio, assignor to The Diamond Match Company, Chicago, Ill. Clutch. No. 1,042,409; Oct. 29; Gaz. vol. 183; p. 1051.
Denne, Mark T., Rushden, England. Slugging or nailing machine. No. 1,029,108; June 11; Sp. p. 2257; Gaz. vol. 179; p. 385.
Denne, Mark T., Rushden, Northampton, England. Machine or apparatus for forming screw-threads on wire by rolling. No. 1,039,707; Oct. 1; Gaz. vol. 183; p. 12.
Dennedy, James H., Detroit, Mich. Ammonia-compressor and valve-operating mechanism therefor. No. 1,048,392; Dec. 24; Gaz. vol. 185; p. 995.
Denneen, Francis S., Mansfield, Ohio. Suspension device for trolley-wires and the like. No. 1,017,741; Feb. 20; Sp. p. 3291; Gaz. vol. 175; p. 589.
Denneen, Francis S., and J. R. Brown, assignors to The Ohio Brass Company, Mansfield, Ohio. Fluid-pressure valve. No. 1,032,470; July 16; Gaz. vol. 180; p. 644.
Denneen, Francis S., and G. A. Mead, assignors to The Ohio Brass Company, Mansfield, Ohio. Section-insulator for overhead structures. No. 1,034,888; Aug. 6; Gaz. vol. 181; p. 164.
Denning, James J., Gas City, Ind. Tumbler-finishing machine. No. 1,046,996; Dec. 10; Gaz. vol. 185; p. 453.
Denninger, Henry, *et al.* (See McKaig, Eddy T., assignor.)
Dennis, Alfred A., Grand Rapids, Mich. Pneumatic tire. No. 1,043,407; Nov. 5; Gaz. vol. 184; p. 129.
Dennis, Arthur W., Jacksonville, Fla. Speedometer-recorder. No. 1,048,503; Dec. 31; Gaz. vol. 185; p. 1071.
Dennis, Benjamin A., assignor to T. A. McGrath, Providence, R. I. Vehicle-wheel. No. 1,014,131; Jan. 9; Sp. p. 2326; Gaz. vol. 174; p. 388.
Dennis, Claude H., Jackson, Mich. Fire-net. No. 1,018,698; Feb. 27; Sp. p. 5485; Gaz. vol. 175; p. 951.
Dennis, Edward T., Richmond, Va. Picker for coupons, labels, and the like. No. 1,039,109; Sept. 24; Gaz. vol. 182; p. 738.

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Dennis, James M. and R. R., Cambridge City, Ind. Pneumatic wheel. No. 1,047,621; Dec. 17; Gaz. vol. 185; p. 706.
Dennis, James M. and R. R., Cambridge City, Ind., assignors to International Pneumatic Wheel Company. Pneumatic wheel. No. 1,047,620; Dec. 17; Gaz. vol. 185; p. 705.
Dennis, Oliver C., Chicago, Ill. Bust-form. No. 1,033,788; July 30; Gaz. vol. 180; p. 1149.
Dennis, Russell R. (See Dennis, James M. and R. R.)
Dennis, Samuel K., Chicago, Ill., assignor to International Harvester Company. Front-wheeled truck for vehicles. No. 1,014,209; Jan. 9; Sp. p. 2474; Gaz. vol. 174; p. 416.
Dennis, Samuel K., Chicago, Ill., assignor to International Harvester Company. Fore truck for vehicles. No. 1,017,516; Feb. 13; Sp. p. 2839; Gaz. vol. 175; p. 479.
Dennis, Samuel K., Chicago, Ill., assignor to International Harvester Company. Manure-spreader. No. 1,018,743; Feb. 27; Sp. p. 5595; Gaz. vol. 175; p. 968.
Dennis, Samuel K., Chicago, Ill., assignor to International Harvester Company. Corn-planter. No. 1,024,768; Apr. 30; Sp. p. 6526; Gaz. vol. 177; p. 1149.
Dennis, Samuel K., Chicago, Ill., assignor to International Harvester Company. Manure-spreader. No. 1,041,974; Oct. 22; Gaz. vol. 183; p. 879.
Dennis, Samuel K., Chicago, Ill., assignor to International Harvester Company. Cultivator-tooth. No. 1,041,975; Oct. 22; Gaz. vol. 183; p. 880.
Dennis, Samuel K., and A. Holsey, Chicago, Ill., assignors to International Harvester Company. Fertilizer attachment for corn-planters. No. 1,041,976; Oct. 22; Gaz. vol. 183; p. 880.
Dennis, William, assignor, by mesne assignments, to Verges Manufacturing Co., Milwaukee, Wis. Friction-clutch. No. 1,027,377; May 21; Sp. p. 5047; Gaz. vol. 178; p. 850.
Dennison, Charles E., Spokane, Wash. Weighing device. No. 1,031,917; July 9; Gaz. vol. 180; p. 413.
Dennison Manufacturing Company. (See Potter, Harry J., assignor.)
Dennison, Wilburn N., Merchantville, N. J., assignor to Victor Talking Machine Company. Talking-machine. No. 1,022,126; Apr. 2; Sp. p. 789; Gaz. vol. 177; p. 126.
Dennison, Wilburn N., Merchantville, N. J., assignor to Victor Talking Machine Company. Air-compressor. No. 1,023,820; Apr. 23; Sp. p. 4361; Gaz. vol. 177; p. 788.
Dennison, Wilburn N., Merchantville, N. J., assignor to Victor Talking Machine Company. Speed-regulator for sound recording and reproducing machines. No. 1,040,522; Oct. 8; Gaz. vol. 183; p. 317.
Denny, Dock T., Hartsville, S. C. Holder for fob-ribbons. No. 1,039,497; Sept. 24; Gaz. vol. 182; p. 874.
Denny, John W., Mapimi, Mexico. Wave-motor. No. 1,019,027; Mar. 5; Sp. p. 25; Gaz. vol. 176; p. 7.
Denny, Roscoe, Eagle Pass, Tex. Clothes-hook. No. 1,041,441; Oct. 15; Gaz. vol. 183; p. 663.
Denquer, Frank A., New York, N. Y. Physician's table. No. 1,039,708; Oct. 1; Gaz. vol. 183; p. 12.
Densmore, Floyde, Haines, Alaska. Rail-joint. No. 1,014,695; Jan. 16; Sp. p. 3579; Gaz. vol. 174; p. 612.
Dental Manufacturing Company, The. (See Rowse, John A., assignor.)
Denton, Arthur, Taylorville, Ill. Harness-hook. No. 1,029,347; June 11; Sp. p. 2781; Gaz. vol. 179; p. 469.
Denver Quartz Mill and Crusher Company, The. (See Jennison, Samuel S., assignor.)
Denver Rock Drill & Machinery Company, The. (See Waugh, Daniel S., assignor.)
Denver Rock Drill and Machinery Company, The. (See Waugh, Daniel S., assignor.) (Reissue.)
Denzler, Carl, Detroit, Mich. Lock. No. 1,021,864; Apr. 2; Sp. p. 245; Gaz. vol. 177; p. 40.
Depue, Alvian R., Niles, Mich. Whip-socket. No. 1,031,986; July 9; Gaz. vol. 180; p. 436.
Derain, Louis G., Boulogne-sur-Seine, near Paris, France. Extrusion-press. No. 1,037,213; Sept. 3; Gaz. vol. 182; p. 12.
Derby, George C., San Francisco, Cal. Air purifying and humidifying apparatus. No. 1,047,765; Dec. 17; Gaz. vol. 185; p. 756.
Derbyshire, Henry E., assignor to Chambersburg Engineering Company, Chambersburg, Pa. Safety-latch for board drop-hammers. No. 1,037,735; Sept. 3; Gaz. vol. 182; p. 187.
Derdeyn, Hector, Jacksonville, Ill. Distributing apparatus. No. 1,019,609; Mar. 5; Sp. p. 1341; Gaz. vol. 176; p. 203.
Derickson, Harry R. (See Ingram and Derickson.)
Dern, Jasper L., Philadelphia, Pa. Confectionery-cutting machine. No. 1,015,790; Jan. 30; Sp. p. 5947; Gaz. vol. 174; p. 1040.
Derosier, Frank, Longbeach, Cal. Gate. No. 1,035,951; Aug. 20; Gaz. vol. 181; p. 592.
Derr, Homer M., Brookings, S. D. Soil-tilling machine. No. 1,045,128; Nov. 26; Gaz. vol. 184; p. 814.
Derry, Edgar R., Augusta, Ga. Desk-stool. No. 1,030,876; July 2; Gaz. vol. 180; p. 10.
Derry, Robert, Singapore, Straits Settlements. Curing of india-rubber. No. 1,030,651; June 25; Sp. p. 5837; Gaz. vol. 179; p. 999.
Derschmidt, Frank E., Ankeny, Iowa. Miner's pick. No. 1,014,575; Jan. 9; Sp. p. 3237; Gaz. vol. 174; p. 539.
Dershimer, Titus D., Falls, Pa. Car-wheel. No. 1,043,757; Nov. 5; Gaz. vol. 184; p. 250.
Deruntz, Eugene, St. Louis, Mo. Oil-burning apparatus. No. 1,034,889; Aug. 6; Gaz. vol. 181; p. 164.
Des Moines Clay Manufacturing Company, The. (See Emery, George H., assignor.)
Desaye, Anthelme, Clifton, N. J. Monoplane. No. 1,037,214; Sept. 3; Gaz. vol. 182; p. 12.
Deselle, Rouville D., Snohomish, Wash. Gate. No. 1,044,632; Nov. 19; Gaz. vol. 184; p. 614.
Desenberg, Edward B., Kalamazoo, and E. S. Pilsworth, Battle Creek, Mich. Propeller. No. 1,028,333; June 4; Sp. p. 583; Gaz. vol. 179; p. 87.
Desenfants, Charles E. (See Desenfants, Edward W., assignor.)
Desenfants, Edward W., assignor of one-half to C. E. Desenfants, Chicago, Ill. Bucking automobile. No. 1,039,035; Sept. 17; Gaz. vol. 182; p. 696.
Deseniss & Jacobi Actiengesellschaft. (See Schubert, Franz B. K., assignor.)
Desens, Frank L., and W. H. Hodge, Kankakee, Ill. Car-step. No. 1,042,895; Oct. 29; Gaz. vol. 183; p. 1222.
Desgeorge, Raoul. (See Lebreil and Desgeorge.)
Desgeorge, Raoul, *et al.* (See Nowak, Ottokar H., assignor.)
Designers Rule Co. (See Gran and Karlson, assignors.)
Desilets, Azade D., Sherbrooke East, Quebec, Canada. Combination-level. No. 1,029,744; June 18; Sp. p. 3644; Gaz. vol. 179; p. 642.
Desjardins, Joseph R., Fall River, Mass. Pipe-reamer. No. 1,028,001; May 28; Sp. p. 6392; Gaz. vol. 178; p. 1096.
Deskins, Kennis F. (See Wood and Deskins.)
Deslauriers Column Mold Company. (See Deslauriers, Philippe A. and L. P., assignors.)
Deslauriers, Louis P. (See Deslauriers, Philippe A. and L. P.)
Deslauriers, Philippe A. and L. P., assignors, by mesne assignments, to Deslauriers Column Mold Company, St. Paul, Minn. Column-mold. No. 1,039,498; Sept. 24; Gaz. vol. 182; p. 874.
Desmaroux, Joseph, Paris, France. Process and apparatus for sterilizing milk and other organic liquids. No. 1,036,806; Aug. 27; Gaz. vol. 181; p. 918.
Desmond, John, assignor to W. S. Potwin, Chicago, Ill. Engine-cooling device. No. 1,025,251; May 7; Sp. p. 319; Gaz. vol. 178; p. 51.
Desmond, John, assignor to W. S. Potwin, Chicago, Ill. Automatic starting device for internal-combustion engines. No. 1,033,882; July 30; Gaz. vol. 180; p. 1183.
Desmond, John, assignor to Artizan Brass Company, Chicago, Ill. Liquid-dispenser. No. 1,046,997; Dec. 10; Gaz. vol. 185; p. 453.
Desoer, Armand, Ougree, Belgium. Metal sheeting-pile. No. 1,019,227; Mar. 5; Sp. p. 485; Gaz. vol. 176; p. 78.
Despard, Victor R. (See Crossley and Despard.)
Dessel, Leo G., *et al.* (See Williams, Andrew J. and C. E., assignors.)
Desselle, Peter J. (See Phillippar and Desselle.)
Desson, Georges, Paris, France. Pneumatic tire for vehicle-wheels. No. 1,025,610; May 7; Sp. p. 1120; Gaz. vol. 178; p. 175.
Déstinon, Andrew von, Conklin, Mich. Rail support and clamp. No. 1,046,278; Dec. 3; Gaz. vol. 185; p. 167.
Detable, Pierre O., Paris, France. Automatically-stabilized supporting-plane for aeroplanes and the like. No. 1,024,315; Apr. 23; Sp. p. 5467; Gaz. vol. 177; p. 958.
Deters, Joseph, Hamler, Ohio. Draft-equalizer. No. 1,032,276; July 9; Gaz. vol. 180; p. 534.
Dethloff, Frederick L., Buffalo, N. Y. Billiard-cue tip. No. 1,018,744; Feb. 27; Sp. p. 5598; Gaz. vol. 175; p. 968.
Detmer Manufacturing Company. (See Bader, Louis, assignor.)
Detmer, Martin J., *et al.* (See Bader, Louis, assignor.)
Detmer, Martin J. (See Bader, Louis C., assignor.)
Detmers, John J. (See Menke, George E., assignor.)
Detrick, David F. (See Detrick, Harrison M., assignor.)
Detrick, Harrison M., assignor to D. F. Detrick, Dayton, Ohio. Dry-heat vulcanizer. No. 1,017,284; Feb. 13; Sp. p. 2338; Gaz. vol. 175; p. 398.
Detroit Auto Specialty Company. (See Liberty and Kirchner, assignors.)
Detroit Can Company. (See Harbeck, Jervis R., assignor.)
Detroit Can Company. (See Harbeck and Ford, assignors.)
Detroit Fuse & Manufacturing Company. (See Horton, Bryson D., assignor.)
Detroit Fuse & Manufacturing Company. (See Kling and Horton, assignors.)
Detroit Motorcycle Mfg. Co. (See Breed, George W., assignor.)
Detroit Overall Company. (See Dodshon, Frederick G., assignor.)
Detroit Steel Products Company. (See Davock, Clarence W., assignor.)
Detroit Typomarker Company. (See Scott, Burton W., assignor.)

Detroit Vapor Stove Company, The. (See Sherman, Alvin G., assignor.)
Detroit Vapor Stove Company. (See Sherman, John S., assignor.)
Detroyes, Théodore, Villeneuve-sur-Yonne, France. Device for fixing caps to billiard-cues. No. 1,038,310; Sept. 10; Gaz. vol. 182; p. 413.
Dettelbach, Edward, Cleveland, Ohio. Tire. No. 1,022,127; Apr. 2; Sp. p. 791; Gaz. vol. 177; p. 126.
Dettman, Fred, West Dundee, Ill. Starting mechanism for hydrocarbon-engines. No. 1,021,967; Mar. 26; Sp. p. 4179; Gaz. vol. 176; p. 777.
Detwiler, Forest V., Chicago, Ill. Refrigerator. No. 1,048,504; Dec. 31; Gaz. vol. 185; p. 1071.
Detwiler, Harry L. (See Detwiler, Reuben G., assignor.)
Detwiler, Reuben G., assignor to H. L. Detwiler, Telford, Pa. Automatic poultry-feeder. No. 1,034,087; July 30; Gaz. vol. 180; p. 1256.
Deu Pree, James D., *et al.* (See Patterson, Benjamin G., assignor.)
Deuchler, John C., Tiffin, Ohio. Nut-lock. No. 1,032,121; July 9; Gaz. vol. 180; p. 479.
Deuel, Harry A., Pueblo, Colo. Machine for making wire-netting. No. 1,020,805; Mar. 19; Sp. p. 3828; Gaz. vol. 176; p. 671.
Deulen, Ralph O. (See Binder and Deulen.)
Deurloo, Anthony C. M., and C. Vanderweel, Lodi, N. J. Street-railway switch. No. 1,026,431; May 14; Sp. p. 2962; Gaz. vol. 178; p. 490.
Deutsch, Charles, Amiens, France. Cooling device for the exhaust-valves of explosion-engines. No. 1,043,076; Nov. 5; Gaz. vol. 184; p. 9.
Deutsch, Henry, trustee. (See Phillips, Ross M. G., assignor.)
Deutsch-Luxemburgische Bergwerks- und Hutten-Akitengesellschaft. (See Larssen, Tryggve, assignor.)
Deutsch, Mathias P. (See McGowan and Michler, assignors.)
Deutsche Gasglühlicht Aktiengesellschaft (Auergesellschaft). (See Süssmann, Heinrich, assignor.)
Deutsche Telephonwerke G. m. b. H. (See Neubold, Erwin, assignor.)
Deutsche Telephonwerke G. m. b. H. (See Settegast, Bernhard, assignor.)
Deutsche Waffen- und Munitionsfabriken. (See Eitner, Berthold, assignor.)
Deutsche Waffen- und Munitionsfabriken. (See Gohlke, Max, assignor.)
Deutsche Waffen- und Munitionsfabriken. (See Heinemann, Karl, assignor.)
Deutsche Waffen & Munitionsfabriken. (See Kapper, Herman, assignor.)
Deutscher, Herman H., Carrollton, Mo. Farm-gate. No. 1,013,140; Jan. 2; Sp. p. 99; Gaz. vol. 174; p. 18.
Deutscher, William, New York, N. Y. Propeller. No. 1,018,237; Feb. 20; Sp. p. 4446; Gaz. vol. 175; p. 763.
Deutschmann, Adolf M., Eltville, Germany. Window-frame. No. 1,021,181; Mar. 26; Sp. p. 4619; Gaz. vol. 176; p. 847.
Devereaux, Francis A., assignor of one-half to F. M. Donnelly, Minneapolis, Minn. Nail-driving device. No. 1,030,286; June 25; Sp. p. 4843; Gaz. vol. 179; p. 867.
Devero, Charles A., Springfield, Ill., assignor to The Keokuk Hydraulic Tire Setter Company. Tire-setter. No. 1,016,217; Jan. 30; Sp. p. 6822; Gaz. vol. 174; p. 1186.
Devero, Charles A., Keokuk, Iowa, assignor to Keokuk Hydraulic Tire Setter Company. Tire-setting machine. No. 1,026,975; May 21; Sp. p. 4174; Gaz. vol. 178; p. 712.
Devey, John, Lehi, J. Devey, Jr., Garland, and W. A. Devey, American Fork, Utah. Beet topper and digger. No. 1,046,448; Dec. 10; Gaz. vol. 185; p. 264.
Devey, John, Lehi, J. Devey, Jr., Garland, and W. A. Devey, American Fork, Utah. Beet digger, cleaner, and elevator. No. 1,046,998; Dec. 10; Gaz. vol. 185; p. 453.
Devey, John, Jr. (See Devey, John, J., Jr., and W. A.)
Devey, Walter A. (See Devey, John, J., Jr., and W. A.)
Devich, Karoly, Akron, Ohio. Electric trap. No. 1,034,212; July 30; Gaz. vol. 180; p. 1298.
Deviese, John T., Hilltop, assignor of one-half to W. E. Deegans, Glen Jean, W. Va., one-fourth to L. P. Johnson, Lafollette, Tenn., and one-fourth to W. S. Johnson, Mount Hope, W. Va. Rail-bond. No. 1,017,285; Feb. 13; Sp. p. 2341; Gaz. vol. 175; p. 398.
Devine, John F., administrator. (See Tileston, Henry M.)
Devine, Robert F., Erie, Pa. Forging apparatus. No. 1,041,442; Oct. 15; Gaz. vol. 183; p. 663.
Devine, Thomas M., assignor to The Ohio Varnish Company, Cleveland, Ohio. Paint and varnish remover. No. 1,024,926; Apr. 30; Sp. p. 6859; Gaz. vol. 177; p. 1205.
Devine, Thomas M., assignor to The Ohio Varnish Company, Cleveland, Ohio. Screening-machine. No. 1,031,427; July 2; Gaz. vol. 180; p. 202.
Devine, Timothy B., Waterbury, Conn. Clothes-line controller. No. 1,028,099; June 4; Sp. p. 14; Gaz. vol. 179; p. 5.
Devine, Walter J., Monument, Kans. Churn. No. 1,020,806; Mar. 19; Sp. p. 3832; Gaz. vol. 176; p. 671.
Devini, John H., Cleveland, Tex. Saw-set. No. 1,047,179; Dec. 17; Gaz. vol. 185; p. 546.
Devlan, Harriett B., Jersey City, N. J. Manufacturing packing for journals. No. 1,033,553; July 23; Gaz. vol. 180; p. 1047.
Devlin, Bernard, Jersey City, N. J. Safety gas-cock. No. 1,020,807; Mar. 19; Sp. p. 3833; Gaz. vol. 176; p. 671.
Devlin, Henry, and H. W. Garland, assignors to The M. Garland Company, Bay City, Mich. Paving-block machine. No. 1,044,880; Nov. 19; Gaz. vol. 184; p. 701.
Devney, Raymond S., Glasgow, Ky. Churn. No. 1,016,218; Jan. 30; Sp. p. 6824; Gaz. vol. 174; p. 1186.
Devore, Espy L., Aurelia, Iowa, assignor of forty one-hundredths to J. D. Miller, Geneva, Ill. Spring-bed. No. 1,046,279; Dec. 3; Gaz. vol. 185; p. 168.
Dewald, Edward A., Leetsdale, and A. Rosenson, Ambridge, Pa. Mechanical movement. No. 1,020,968; Mar. 26; Sp. p. 4181; Gaz. vol. 176; p. 777.
Dewar, William H., Philadelphia, Pa., assignor to Anglo-American Cabinet Co., Seattle, Wash. Phonograph-disk-record cabinet. No. 1,038,099; Sept. 10; Gaz. vol. 182; p. 342.
Dewey, Charles D., Shenandoah, Iowa. Package-delivery apparatus. No. 1,045,002; Nov. 19; Gaz. vol. 184; p. 742.
Dewey, Frank J. (See Dewey, Thomas and F. J.)
Dewey, Frederic L., assignor to Parlin & Orendorff Company, Canton, Ill. Lister-cultivator. No. 1,021,826; Apr. 2; Sp. p. 167; Gaz. vol. 177; p. 27.
Dewey, Guy C., Carthage, N. Y. Winder-shaft collar. No. 1,023,419; Apr. 16; Sp. p. 3554; Gaz. vol. 177; p. 633.
Dewey, Harper W., Sidney Center, N. Y. Feed-hopper. No. 1,028,445; June 4; Sp. p. 849; Gaz. vol. 179; p. 127.
Dewey, John J., Hartford, Vt. Feed-water regulator. No. 1,045,821; Dec. 3; Gaz. vol. 185; p. 9.
Dewey Manufacturing Company, The. (See Dutton, Robert L., assignor.)
Dewey, Thomas and F. J., Plattsburg, N. Y. Neckscarf. No. 1,048,393; Dec. 24; Gaz. vol. 185; p. 995.
Dewson, Edward H., New York, N. Y., assignor to The Westinghouse Air Brake Company, Pittsburgh, Pa. Automatic cut-out for trip-valves. No. 1,037,454; Sept. 3; Gaz. vol. 182; p. 95.
Dewson, Edward H., New York, N. Y., assignor to The Westinghouse Air Brake Company, Pittsburgh, Pa. Pneumatic blow-out for electric switches. No. 1,039,264; Sept. 24; Gaz. vol. 182; p. 794.
Dewson, Edward H., New York, N. Y., and W. V. Turner, Edgewood, assignors to The Westinghouse Air Brake Company, Pittsburgh, Pa. Automatic electric air-brake. No. 1,048,507; Dec. 31; Gaz. vol. 185; p. 1073.
Dexter, Albert J., Indian Orchard, Mass. Gas-engine. No. 1,038,537; Sept. 17; Gaz. vol. 182; p. 526.
Dexter Folder Company. (See Dexter and Garner, assignors.)
Dexter Folder Company. (See Dexter and Holdt, assignors.)
Dexter Folder Company. (See Dexter and Jones, assignors.)
Dexter Folder Company. (See Holdt, George H., assignor.)
Dexter, Talbot C., and R. E. Jones, assignors to Dexter Folder Company, Pearl River, N. Y. Paper-feeding machine. No. 1,022,776; Apr. 9; Sp. p. 2197; Gaz. vol. 177; p. 377.
Dexter, Talbot C., and G. H. Holdt, assignors to Dexter Folder Company, Pearl River, N. Y. Paper-cutting machine. No. 1,036,975; Aug. 27; Gaz. vol. 181; p. 975.
Dexter, Talbot C., and V. Garner, assignors to Dexter Folder Company, Pearl River, N. Y. Sheet-registering mechanism for paper-feeding machines. No. 1,040,168; Oct. 1; Gaz. vol. 183; p. 166.
Dexter, Talbot C., and V. Garner, assignors to Dexter Folder Company, Pearl River, N. Y. Slowdown clutch mechanism for sheet-conveying machines. No. 1,045,685; Nov. 26; Gaz. vol. 184; p. 1012.
Dextrin Automat, Gesellschaft m. b. H. (See Wulkan, Heinrich, assignor.)
Dey, Charles V., assignor of one-half to J. Hirsch, Chicago, Ill. Pneumatic feather-cleaning apparatus. No. 1,026,432; May 14; Sp. p. 2963; Gaz. vol. 178; p. 490.
Dezendorf, Richard L., Richmond Hill, N. Y. Meter. No. 1,031,696; July 9; Gaz. vol. 180; p. 336.
Di Bella, Morris. (See Martin, Frank, assignor.)
Di Giovanni, Gaetano, assignor of one-half to J. Hammer, New York, N. Y. Burglar-alarm. No. 1,031,535; July 2; Gaz. vol. 180; p. 238.
Di Medio, Joseph, Camden, N. J. Phonographic-disk cabinet. No. 1,023,385; Apr. 16; Sp. p. 3487; Gaz. vol. 177; p. 622
Di Orio, Joseph, Jersey City, N. J. Folding chair and stand. No. 1,046,055; Dec. 3; Gaz. vol. 185; p. 88.
Diamand, Bernard, Idaweiche, Oberschlesien, Germany. Tightening casks, barrels, or the like. No. 1,013,137; Jan. 2; Sp. p. 93; Gaz. vol. 174; p. 17.
Diamant Brikett-Werke G. m. b. H. (See Hein, Paul, assignor.)
Diamond Block Machine Company. (See Lowe, Luke T., assignor.)
Diamond Electric Company. (See Parkhurst, Leon F., assignor.)

Alphabetical list of patentees—Continued.

Diamond Electric Company. (See Parkhurst and Weeks, assignors.)
Diamond Expansion Bolt Company. (See Pauli, Carl, assignor.)
Diamond Forging & Manufacturing Company. (See Smith, David M., assignor.)
Diamond, James K., assignor to J. B. Stone Co., Grand Rapids, Mich. Holder for belt-fasteners. No. 1,044,358; Nov. 12; Gaz. vol. 184; p. 489.
Diamond Match Company, The. (See Budd, Henry A., assignor.)
Diamond Match Company, The. (See Cruser, Frederick V., assignor.)
Diamond Match Company, The. (See Cruser and Green, assignors.)
Diamond Match Company, The. (See Denmead, John W., assignor.)
Diamond Match Company, The. (See Fairburn, William A., assignor.)
Diamond Match Company, The. (See Fairburn, Cruser, and Green, assignors.)
Diamond Match Company, The. (See Nolan, John R., assignor.)
Diamond Match Company, The. (See Paridon and Palmer, assignors.)
Diamond Match Company, The. (See Palmer and Paridon, assignors.)
Diamond Match Company, The. (See Wright, Jacob P., assignor.
Diamond Power Specialty Co. (See Higgins, Harry A., assignor.)
Diamond Power Specialty Co. (See Sprenger, Louis, assignor.)
Diamond Power Specialty Company. (See Standish, Edward K., assignor.)
Diamond, Samuel. (See Lacy and Diamond.)
Diaz, Charles F., Philadelphia, Pa., M. F. and L. F. Diaz, Mérida, Mexico. Pump. No. 1,033,679; July 23; Gaz. vol. 180; p. 1088.
Diaz, Luis F. (See Diaz, Charles F., M. F., and L. F.)
Diaz, Miguel F. (See Diaz, Charles F., M. F., and L. F.)
Dibble, Bert J., Denver, Colo. Vaporizing and air-heating attachment for bath-cabinets. No. 1,016,873; Feb. 6; Sp. p. 1412; Gaz. vol. 175; p. 218.
Dice, Andrew F., Joliet, Ill. Medicated nest-egg. No. 1,030,056; June 18; Sp. p. 4345; Gaz. vol. 179; p. 750.
Dichmann, William, assignor of one-half to C. A. Wakeman, Oshkosh, Wis. Machine for forming conical-necked wrappers. No. 1,039,108; Sept. 24; Gaz. vol. 182; p. 737.
Dick, Albert B., Lake Forest, assignor to A. B. Dick Company, Chicago, Ill. Stencil-duplicating apparatus. No. 1,024,186; Apr. 23; Sp. p. 5212; Gaz. vol. 177; p. 913.
Dick, Albert B., Lake Forest, assignor to A. B. Dick Company, Chicago, Ill. Type-setting machine. No. 1,031,326; July 2; Gaz. vol. 180; p. 168.
Dick, Albert B., Lake Forest, assignor to A. B. Dick Company, Chicago, Ill. Printing apparatus. No. 1,031,630; July 2; Gaz. vol. 180; p. 271.
Dick, Edward W., Albert Lea, Minn. Safety eyeglass-holder. No. 1,039,265; Sept. 24; Gaz. vol. 182; p. 794.
Dick, James A., and J. P. Sinclair, Vancouver, British Columbia, Canada. Hat-pin guard. No. 1,038,312; Sept. 10; Gaz. vol. 182; p. 413
Dick, Joseph, Canton, Ohio. Fodder-cutter. No. 1,046,449; Dec. 10; Gaz. vol. 185; p. 264.
Dick, William A., Pittsburgh, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Cooling means for dynamo-electric machines. No. 1,034,890; Aug. 6; Gaz. vol. 181; p. 164.
Dick, William A., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Means for insulating electrical machines. No. 1,046,743; Dec. 10; Gaz. vol. 185; p. 370.
Dickel, Wilhelm, and F. Ebener, Vohwinkel, near Elberfeld, assignors to Fabrik Nietloser Gitterträger Aktien-Gesellschaft, Dusseldorf, Germany. Manufacturing lattice-girders. No. 1,047,766; Dec. 17; Gaz. vol. 185; p. 757.
Dickens, A. A. (See Lain and Jennings, assignors.)
Dickens, Norman F. (See Lindley and Dickens.)
Dickenson, Louis C., Grand Rapids, Mich. Treating diseased or decayed trees. No. 1,047,001; Dec. 10; Gaz. vol. 185; p. 454.
Dickenson, William J. A., assignor to Modoc Development Company, Sioux Falls, S. D. Safety-razor. No. 1,035,548; Aug. 13; Gaz. vol. 181; p. 419.
Dickerman, William C. (See Handy, Levin G., assignor.)
Dickerson, E. N. (See Pike, Frederick N., assignor.)
Dickerson, Oliver H., Duluth, Minn. Bin-door. No. 1,036,582; Aug. 27; Gaz. vol. 181; p. 845.
Dickerson, Oliver H., Duluth, Minn. Ore-bin door. No. 1,041,444; Oct. 15; Gaz. vol. 183; p. 663.
Dickerson, S. K., *et al.* (See Foster, Oliver M., assignor.)
Dickerson, Walter H., Muskegon, Mich., assignor to Tanning Extract Company, New York, N. Y. Treating waste sulfite liquor. No. 1,043,303; Nov. 5; Gaz. vol. 184; p. 92.
Dickert, Curtis L., assignor of one-third to C. W. Rice and one-third to W. A. Chapman, Macon, Ga. Attachment for turning-lathes. No. 1,030,981; July 2; Gaz. vol. 180; p. 46.
Dickert, Curtis L., assignor of one-third to C. W. Rice and one-third to W. A. Chapman, Macon, Ga. Sawing-machine for cylinder packing-rings. No. 1,032,277; July 9; Gaz. vol. 180; p. 535.
Dickey, Aaron F., Somerset, Pa. Transmission-gearing. No. 1,029,109; June 11; Sp. p. 2259; Gaz. vol. 179; p. 386.
Dickey, Albert F. (See Connell and Dickey.)
Dickey, Arthur V., assignor of one-half to W. M. Sheffield, Seattle, Wash. Repeating air-rifle. No. 1,026,303; May 14; Sp. p. 2670; Gaz. vol. 178; p. 447.
Dickey, Frederick R., Butler, Pa. Runner attachment for vehicles. No. 1,047,767; Dec. 17; Gaz. vol. 185; p. 757.
Dickey, John S., Collinsville, Tex. Washing-machine. No. 1,028,003; May 28; Sp. p. 6395; Gaz. vol. 178; p. 1097.
Dickey, William F., Lynchburg, Va. Cut-off device. No. 1,036,807; Aug. 27; Gaz. vol. 181; p. 919.
Dickie, Charles, F. Lambert, and R. Stables, Kimberley, South Africa. Safety apparatus for supporting mine-cages or the like. No. 1,020,483; Mar. 19; Sp. p. 3122; Gaz. vol. 176; p. 563.
Dickinson, Bruce J., Ambridge, Pa. Hose-coupling. No. 1,033,554; July 23; Gaz. vol. 180; p. 1047.
Dickinson, David E., Blissfield, Mich. Baling-press. No. 1,040,169; Oct. 1; Gaz. vol. 183; p. 167.
Dickinson, Edgar D. (See Junggren and Dickinson.)
Dickinson, Edwin C., Talcott, W. Va. Gas-burner. No. 1,025,083; Apr. 30; Sp. p. 7163; Gaz. vol. 177; p. 1256.
Dickinson, Frank A., Philadelphia, Pa. Packing-ring or gasket. No. 1,017,855; Feb. 20; Sp. p. 3591; Gaz. vol. 175; p. 629.
Dickinson, Frank T., Chicago, Ill. Brake-shoe. No. 1,042,896; Oct. 29; Gaz. vol. 183; p. 1223.
Dickinson, Frank T., Chicago, Ill. Mold. No. 1,043,809; Nov. 12; Gaz. vol. 184; p. 299.
Dickinson, J. E., *et al.*, trustees. (See Converse, Newton B., assignor.)
Dickinson, Joseph H., Montclair, N. J. Cableway logging apparatus. No. 1,024,833; Apr. 30; Sp. p. 6662; Gaz. vol. 177; p. 1172.
Dickinson, Joseph H., Cranford, N. J. Player-piano. No. 1,028,996; June 11; Sp. p. 2024; Gaz. vol. 179; p. 348.
Dickinson, Maude, Brighton, England. Device for closing or capping vessels and similar articles. No. 1,048,394; Dec. 24; Gaz. vol. 185; p. 996.
Dickinson, Raymond S., Los Angeles, Cal. Rotary internal-combustion engine. No. 1,034,213; July 30; Gaz. vol. 180; p. 1298.
Dickinson, William N., Jr., New York, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Alternating-current electric motor. No. 1,014,210; Jan. 9; Sp. p. 2475; Gaz. vol. 174; p. 416.
Dicks, Hallie R., Grey Eagle, Minn. Electrical musical instrument. No. 1,037,603; Sept. 3; Gaz. vol. 182; p. 143.
Dicks, William, Buffalo, N. Y. Tubing. No. 1,045,957; Dec. 3; Gaz. vol. 185; p. 55.
Dickson, Alexander, Dublin, Ireland. Treatment and utilization of sewage and distillery or brewery wash or waste. No. 1,015,302; Jan. 23; Sp. p. 4882; Gaz. vol. 174; p. 845.
Dickson, Frank H., Oswego, N. Y. Chain wrench. No. 1,023,198; Apr. 16; Sp. p. 3128; Gaz. vol. 177; p. 560.
Dickson, Frank H., Oswego, N. Y. Wrench. No. 1,026,661; May 21; Sp. p. 3459; Gaz. vol. 178; p. 603.
Dickson, George F., assignor to Confectioners and Bakers Supply Co., Chicago, Ill. Freezer. No. 1,039,654; Sept. 24; Gaz. vol. 182; p. 930.
Dickson, George F., assignor to Confectioners and Bakers Supply Co., Chicago, Ill. Freezing apparatus. No. 1,039,655; Sept. 24; Gaz. vol. 182; p. 930.
Dickson, George F., assignor to Confectioners and Bakers Supply Co., Chicago, Ill. Can-washing machine. No. 1,040,248; Oct. 1; Gaz. vol. 183; p. 193.
Dickson, Gilbert J., Albany, N. Y. Lamp-wick trimmer and wiper. No. 1,018,745; Feb. 27; Sp. p. 5601; Gaz. vol. 175; p. 969.
Dickson, Gilbert J., Albany, N. Y. Photographic-camera shutter. No. 1,047,508; Dec. 17; Gaz. vol. 185; p. 665.
Dickson, James T., Los Angeles, Cal. Pneumatic clutch. No. 1,048,299; Dec. 24; Gaz. vol. 185; p. 963.
Dickson, Jeremiah J., Indianapolis, Ind. Pneumatic rubbing-machine. No. 1,017,388; Feb. 13; Sp. p. 2561; Gaz. vol. 175; p. 433.
Dickson, Jeremiah J., Indianapolis, Ind. Rubbing-machine engine. No. 1,017,389; Feb. 13; Sp. p. 2564; Gaz. vol. 175; p. 434.
Dickson, John M., Indianapolis, Ind. Doll-head. No. 1,027,324; May 21; Sp. p. 4940; Gaz. vol. 178; p. 831.
Dickson, Myron, Martinsville, Ind. Hot-air furnace. No. 1,042,654; Oct. 29; Gaz. vol. 183; p. 1139.
Dickson, Robert G., *et al.* (See Power, Michael, assignor.)
Dickson, William F., *et al.* (See Stewart, James D., assignor.)

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Diebitsch, Emil, Nutley, N. J. Device for securing slabs or blocks. No. 1,027,188; May 21; Sp. p. 4664; Gaz. vol. 178; p. 784.
Diebold, Emil, Ennetbaden, Switzerland. Plaiting-machine. No. 1,028,446; June 4; Sp. p. 850; Gaz. vol. 179; p. 127.
Dieckmann, George P., assignor of one-half to H. B. Hasbrouck, Mason City, Iowa. Compound for waterproofing cement and the like and making same. No. 1,023,926; Apr. 23; Sp. p. 4628; Gaz. vol. 177; p. 823.
Diedreach, Charles, Stockton, Cal. Railway-crossing. No. 1,029,978; June 18; Sp. p. 4169; Gaz. vol. 179; p. 722.
Diedrich, William J., Waukesha, Wis. Sash-lock. No. 1,036,583; Aug. 27; Gaz. vol. 181; p. 845.
Diefenbach, Adolf, Bensheim, Germany. Preparing a refined extract from cascara sagrada. No. 1,043,209; Nov. 5; Gaz. vol. 184; p. 58.
Diefenderfer, Victor J., Allentown, assignor of one-half to C. E. Lehr, Bethlehem, Pa. Air-compressor. No. 1,037,455; Sept. 3; Gaz. vol. 182; p. 95.
Diefenderfer, Victor J., Allentown, assignor of one-third to C. E. Lehr, Bethlehem, Pa. Internal-combustion engine. No. 1,046,280; Dec. 3; Gaz. vol. 185; p. 168.
Diefendorf, Edward G., assignor to Erie Stamping & Mfg. Co., Erie, Pa. Pipe-wrench. No. 1,041,978; Oct. 22; Gaz. vol. 183; p. 881.
Dieffenbach, Otto, *et al.* (See Weber, Oskar H. and K., assignors.)
Dieffenbach, Otto, Darmstadt, Germany. Diaphragm for electrolysis. No. 1,039,266; Sept. 24; Gaz. vol. 182; p. 795.
Dieffenbacher, Karl G., Masillon, Ohio. Hat-pin guard. No. 1,035,694; Aug. 13; Gaz. vol. 181; p. 467.
Diehl, Ambrose N., Duquesne, Pa. Method of and apparatus for treating gases. No. 1,045,003; Nov. 19; Gaz. vol. 184; p. 742.
Diehl, Frederick, Elizabeth, N. J., assignor to Diehl Manufacturing Company. Lubricating device. No. 1,037,217; Sept. 3; Gaz. vol. 182; p. 13.
Diehl, George H., Jr. (See Nyboer, Arend R., assignor.)
Diehl, James S., South Vienna, Ohio. Scissors. No. 1,047,002; Dec. 10; Gaz. vol. 185; p. 454.
Diehl Manufacturing Company. (See Diehl, Frederick, assignor.)
Diehl, Philip, Elizabeth, N. J., assignor to The Singer Manufacturing Company. Mechanical movement. No. 1,047,003; Dec. 10; Gaz. vol. 185; p. 455.
Diemer, Anton, assignor to Firm of R. Bosch, Stuttgart, Germany. Shaft-coupling. No. 1,027,644; May 28; Sp. p. 5583; Gaz. vol. 178; p. 976.
Diemer, William, assignor to Gendron Wheel Company, Toledo, Ohio. Invalid's chair. No. 1,039,709; Oct. 1; Gaz. vol. 183; p. 12.
Diener, Frank S. (See Bolton, Daniel G., assignor.)
Diener, Magdalena, and C. F. Urban, Milwaukee, Wis Sleigh. No. 1,026,023; May 14; Sp. p. 2025; Gaz. vol. 178; p. 350.
Dierbach, Richard, Hamburg, Germany. Manufacturing porous chocolate. No. 1,044,758; Nov. 19; Gaz. vol. 184; p. 659.
Dierdorff, Andrew F., Los Angeles, Cal. Stabilizing lifting-plane for flying-machines. No. 1,026,079; May 14; Sp. p. 2196; Gaz. vol. 178; p. 370.
Diesbach, Heinrich von. (See Lüttringhaus and Diesbach.)
Diescher, Samuel E., Pittsburgh, Pa. Pickling sheets, &c. No. 1,023,458; Apr. 16; Sp. p. 3631; Gaz. vol. 177; p. 644.
Diesel, Rudolf, Munich, Germany. Fluid-actuated clutch. No. 1,018,412; Feb. 27; Sp. p. 4831; Gaz. vol. 175; p. 855.
Dieter Nut Company. (See Schrader, John R., assignor.)
Dietrich, Jerome C., Galt, Ontario, Canada. Hose-supporter. No. 1,020,132; Mar. 12; Sp. p. 2399; Gaz. vol. 176; p. 409.
Dietrich, Paul, and W. Millies, Linden, near Hanover, assignors to Company "Gebr. Koerting Aktiengesellschaft," Körtingsdorf, near Hanover, Germany. Injector. No. 1,042,095; Oct. 22; Gaz. vol. 183; p. 920.
Dietrich, William, Chicago, Ill. Ink-distributing roller for printing-presses. No. 1,040,170; Oct. 1; Gaz. vol. 183; p. 167.
Dietz, Charles F. (See Dietz, Valentine and C. F.)
Dietz, Frederick, New York, N. Y. Lantern-guard. No. 1,048,300; Dec. 24; Gaz. vol. 185; p. 963.
Dietz, Frederick, assignor of one-half to R. E. Dietz Company, New York, and one-half to C. T. Ham Manufacturing Company, Rochester, N. Y. Tubular lantern. No. 1,035,549; Aug. 13; Gaz. vol. 181; p. 419.
Dietz, Frederick, assignor to R. E. Dietz Company, New York, N. Y. Tubular lantern. No. 1,044,866; Nov. 19; Gaz. vol. 184; p. 695.
Dietz, Gustav, Yonkers, N. Y. Moving-picture-projecting apparatus. No. 1,017,250; Feb. 13; Sp. p. 2275; Gaz. vol. 175; p. 387.
Dietz, John E., assignor to R. E. Dietz Company, New York, N. Y. Lantern-handle. No. 1,035,550; Aug. 13; Gaz. vol. 181; p. 420.
Dietz, Joseph A., Kersey, Pa. Combined boiler and press. No. 1,033,387; July 23; Gaz. vol. 180; p. 994.
Dietz, Valentine, Jr., Yonkers, and C. F. Dietz, New York, N. Y. Mausoleum construction. No. 1,020,747; Mar. 19; Sp. p. 3720; Gaz. vol. 176; p. 652.
Dietz, William, Chicago, Ill., assignor to McCord Manufacturing Company, Detroit, Mich. Radiator-assembling machine. No. 1,024,124; Apr. 23; Sp. p. 5069; Gaz. vol. 177; p. 893.
Diffenbacher, James, Burrows, Pa. Glass-machine. No. 1,034,985; Aug. 6; Gaz. vol. 181; p. 195.
Diffenderfer, Francis A., assignor, by mesne assignments, to M. E. Diffenderfer, Brooklyn, N. Y. Roller for cotton-gins. No. 1,016,817; Feb. 6; Sp. p. 1299; Gaz. vol. 175; p. 199.
Diffenderfer, Francis A., assignor, by mesne assignments, to M. E. Diffenderfer, Brooklyn, N. Y. Roller cotton-gin. No. 1,018,302; Feb. 20; Sp. p. 4569; Gaz. vol. 175; p. 784.
Diffenderfer, Mary E. (See Diffenderfer, Francis A., assignor.)
Digby, Henry C. (See Bradley, James A., assignor.)
Dikeman, Charles S., Norwalk, Conn. Cabinet and floor scraper. No. 1,041,979; Oct. 22; Gaz. vol. 183; p. 881.
Dikeman, Edmund B., Chicago, Ill. Harrow. No. 1,040,524; Oct. 8; Gaz. vol. 183; p. 318.
Dikeman, Joseph S., assignor to The Dikeman Manufacturing Company, Norwalk, Conn. Saw-clamp. No. 1,035,166; Aug. 13; Gaz. vol. 181; p. 286.
Dikeman, Joseph S., assignor to The Dikeman Manufacturing Company, Norwalk, Conn. Hacksaw. No. 1,044,359; Nov. 12; Gaz. vol. 184; p. 489.
Dikeman Manufacturing Company, The. (See Dikeman, Joseph S., assignor.)
Dildine, E. E., and J. A. Rugh, St. Paul, Minn., assignors to Sandwich Electric Company, Sandwich, Ill. Cordless jack-box. No. 1,039,656; Sept. 24; Gaz. vol. 182; p. 930.
Dilg, Charles H. J., and J. O. Fowler, Jr., New York, N. Y., assignors to Granulator Soap Company. Soap-supplier. No. 1,037,456; Sept. 3; Gaz. vol. 182; p. 96.
Dilg, Charles H. J., and J. O. Fowler, New York, N. Y., assignors to Granulator Soap Company. Soap-dispensing machine. No. 1,037,821; Sept. 3; Gaz. vol. 182; p. 214.
Dilger, Louis M., Canton, Ohio. Rail-joint. No. 1,018,700; Feb. 27; Sp. p. 5489; Gaz. vol. 175; p. 951.
Dilks, Frank W., Philadelphia, Pa., D. Reyam and E. E. Du Pont, Wilmington, Del.; said Dilks assignor to said Reyam and said Du Pont. Automobile-heater. No. 1,028,553; June 4; Sp. p. 1068; Gaz. vol. 179; p. 162.
Dill, Harry E. (See Marsh and Dill.)
Dillig, George F., Baltimore, Md. Mold apparatus. No. 1,035,425; Aug. 13; Gaz. vol. 181; p. 377.
Dillinger, William, Wessington Springs, S. D. Railway-tie and fastener. No. 1,013,138; Jan. 2; Sp. p. 94; Gaz. vol. 174; p. 17.
Dillon, Albert, Aitch, Ohio. Combined rail-joint and tie-fastener. No. 1,038,313; Sept. 10; Gaz. vol. 182; p. 413.
Dillon, Charles A., assignor to The United Electric Company, Canton, Ohio. Vacuum-cleaner. (Reissue.) No. 13,352; Jan. 9; Sp. p. 3410; Gaz. vol. 174; p. 563.
Dillon, Charles E., and L. Savage, Springfield, Mo. Ladder. No. 1,028,004; May 28; Sp. p. 6396; Gaz. vol. 178; p. 1097.
Dillon, George F., McKees Rocks, Pa. Hat-pin-point protector. No. 1,016,678; Feb. 6; Sp. p. 1015; Gaz. vol. 175; p. 154.
Dillon, George F., Kansas City, Mo. Explosive-engine. No. 1,033,160; July 23; Gaz. vol. 180; p. 916.
Dillon, John, Philadelphia, Pa., assignor to Otis Elevator Company, Jersey City, N. J. Alternating-current-motor-controlling apparatus. No. 1,023,134; Apr. 16; Sp. p. 2983; Gaz. vol. 177; p. 537.
Dillon, John M., assignor to Northwestern Barb Wire Company, Sterling, Ill. Fence-clamp. No. 1,046,450; Dec. 10; Gaz. vol. 185; p. 264.
Dillon, Joseph A., New Haven, Conn. Transom-lift. No. 1,017,087; Feb. 13; Sp. p. 1926; Gaz. vol. 175; p. 330.
Dillon, Robert J., Killaloe, Ontario, Canada. Cattle-guard. No. 1,014,696; Jan. 16; Sp. p. 3580; Gaz. vol. 174; p. 612.
Dillon Safety Razor Co., The. (See Dillon, Stephen V. assignor.)
Dillon, Stephen V., Butler, Pa., assignor to The Dillon Safety Razor Co. Safety-razor. No. 1,023,364; Apr. 16; Sp. p. 3442; Gaz. vol. 177; p. 615.
Dillon, Washington M., Sterling, Ill. Wire-fence clamp. No. 1,045,958; Dec. 3; Gaz. vol. 185; p. 55.
Dills, Philip L., Blairsville, Ga. Hook. No. 1,015,149; Jan. 16; Sp. p. 4550; Gaz. vol. 174; p. 767.
Dilts, Henry I., Elmhurst, assignor to Neptune Meter Company, Long Island City, N. Y. Water-meter. No. 1,033,680; July 23; Gaz. vol. 180; p. 1088.
Dilworth, John C. (See Handloser and Dilworth.)
Dilworth, Porter & Company. (See Handloser and Dilworth, assignors.)
Dime-Nailer Company. (See Perry, George R., assignor.)
Dimmick, Joseph O., assignor to Electric Heat Conserving Company, Los Angeles, Cal. Electric heating device. No. 1,047,004; Dec. 10; Gaz. vol. 185; p. 455.

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Dimock, Charles H., Windsor, Nova Scotia, Canada. Switch. No. 1,021,665; Mar. 26; Sp. p. 5630; Gaz. vol. 176; p. 1013.
Dineen, John, Chicago, Ill. Attachment for fishing-rods. No. 1,015,009; Jan. 16; Sp. p. 4287; Gaz. vol. 174; p. 720.
Dinger, David C., Washington, D. C. Detachable weight for base-ball bats. No. 1,030,982; July 2; Gaz. vol. 180; p. 46.
Dingwell, Ruel, assignor of one-half to A. A. Thompson, Boston, Mass. Match-box. No. 1,026,976; May 21; Sp. p. 4177; Gaz. vol. 178; p. 713.
Dinkelbihler, Charles L. H., Cincinnati, Ohio. Metallic railway-tie. No. 1,049,060; Dec. 31; Gaz. vol. 185; p. 1265.
Dinkey, Alva C., Pittsburg, Pa. Metal rail-tie. No. 1,024,065; Apr. 23; Sp. p. 4916; Gaz. vol. 177; p. 871.
Dinkins, John M., and F. B. Hays, assignors of fifty-three and one-third one-hundredths to W. L. Taylor, Indianapolis, Ind. Magneto. No. 1,014,622; Jan. 9; Sp. p. 3360; Gaz. vol. 174; p. 556.
Dinklage, August J., East Orange, N. J. Anticreeping device for rails. No. 1,015,791; Jan. 30; Sp. p. 5949; Gaz. vol. 174; p. 1041.
Dinkler, Joseph A., Anadarko, Okla. Display-easel. No. 1,048,395; Dec. 24; Gaz. vol. 185; p. 996.
Dins, Henry H., Osceola, Wis. Potato-hiller. No. 1,047,921; Dec. 24; Gaz. vol. 185; p. 838.
Dinsmoor, George W., Lawrence, Mass. Cloth-board holder. No. 1,045,530; Nov. 26; Gaz. vol. 184; p. 958.
Dinsmoor, John L., New York, N. Y. Arc-lamp. No. 1,025,130; May 7; Sp. p. 40; Gaz. vol. 178; p. 8.
Dinsmore, John W. (See Rumold, Faulkner, and Dinsmore.)
Dinsmore, Samuel, Lyons, Kans. Pressure-gage. No. 1,023,821; Apr. 23; Sp. p. 4362; Gaz. vol. 177; p. 788.
Dinwiddie, Howard E., Onawa, Iowa. Manure-spreader. No. 1,023,302; Apr. 16; Sp. p. 3329; Gaz. vol. 177; p. 595.
Dion, Albert de, and G. Bouton, Puteaux, France. Connecting-rod coupling. No. 1,037,211; Sept. 3; Gaz. vol. 182; p. 11.
Dion, Francois, Manchester, N. H. Safety cranking device for internal-combustion engines. No. 1,049,061; Dec. 31; Gaz. vol. 185; p. 1265.
Dion, Léon, New York, N. Y., assignor to Eureka Machinery Company. Filtering-faucet. No. 1,022,470; Apr. 9; Sp. p. 1515; Gaz. vol. 177; p. 272.
Diplock, Bramah J., Wheatsheaf Wharf, Fulham, England. Road-vehicle. No. 1,014,132; Jan. 9; Sp. p. 2327; Gaz. vol. 174; p. 388.
Dippel, Henry, San Francisco, Cal. Hat-fastener. No. 1,037,736; Sept. 3; Gaz. vol. 182; p. 187.
Dippert, Alfred, Detroit, Mich., assignor to C. W. Dippert, Buffalo, N. Y. Radiator for automobiles and the like. No. 1,014,816; Jan. 16; Sp. p. 3839; Gaz. vol. 174; p. 653.
Dippert, Charles W. (See Dippert, Alfred, assignor.)
Dippert, Charles W., Detroit, Mich. Automobile-radiator. No. 1,045,267; Nov. 26; Gaz. vol. 184; p. 863.
Dirand, Louis J., assignor of one-half to C. H. Carlin, Torrington, Conn. Spark-plug. No. 1,024,834; Apr. 30; Sp. p. 6664; Gaz. vol. 177; p. 1173.
Direct Drive Gear Company. (See McBrair, Henry C., assignor.)
Dirnberger, Clarence H., Buffalo, N. Y. Wrapping merchandise or the like. No. 1,037,218; Sept. 3; Gaz. vol. 182; p. 14.
Disbrow, Levi A., Owatonna, Minn. Combined churn and butter-worker. No. 1,018,554; Feb. 27; Sp. p. 5203; Gaz. vol. 175; p. 904.
Disbrow, Reuben B., Owatonna, Minn. Combined churn and butter-worker. No. 1,018,036; Feb. 20; Sp. p. 4006; Gaz. vol. 175; p. 693.
Disbrow, Reuben B., Owatonna, Minn. Combined churn and butter-worker. No. 1,029,798; June 18; Sp. p. 3756; Gaz. vol. 179; p. 661.
Disbrow, Reuben B., Owatonna, Minn. Friction-clutch. No. 1,037,876; Sept. 10; Gaz. vol. 182; p. 267.
Disbrow, Reuben B., Owatonna, Minn. Combined churn, butter-worker, and cream-ripener. No. 1,043,908; Nov. 12; Gaz. vol. 184; p. 334.
Disbrow, Reuben B., Owatonna, Minn. Driving mechanism. No. 1,044,759; Nov. 19; Gaz. vol. 184; p. 660.
Disch, Theodore, Menominee, Mich., assignor to The Prescott Company. Pawl-carrier. No. 1,034,891; Aug. 6; Gaz. vol. 181; p. 165.
Discher, William. (See Holland and Discher.)
Dishman, Charles H., Henderson, Ky. Excavating-scraper. No. 1,023,303; Apr. 16; Sp. p. 3331; Gaz. vol. 177; p. 595.
Dishman, Charles H., Henderson, Ky. Combined excavating and levee-building machine. No. 1,040,525; Oct. 8; Gaz. vol. 183; p. 318.
Diss, Louis P., Ilion, N. Y. Type-writer escapement. No. 1,021,182; Mar. 26; Sp. p. 4620; Gaz. vol. 176; p. 848.
Dissel, Theodore A., Boston, Mass. Cable-support. No. 1,020,969; Mar. 26; Sp. p. 4184; Gaz. vol. 176; p. 778.
Dissie, Henry, Washington, D. C. Aerial navigation. No. 1,022,777; Apr. 9; Sp. p. 2204; Gaz. vol. 177; p. 378.
Distefano, Samuel C., Baltimore, Md. Trolley-guard. No. 1,040,904; Oct. 8; Gaz. vol. 183; p. 447.
Dister, Joseph, Hamilton, Ohio, assignor to American Can Company, New York, N. Y. Crated washboilers. No. 1,015,380; Jan. 23; Sp. p. 5059; Gaz. vol. 174; p. 872.
Ditchfield, Frank, Montreal, Quebec, Canada. Car-door-operating mechanism. No. 1,041,045; Oct. 15; Gaz. vol. 183; p. 529.
Ditsworth, Oliver, Mount Carroll, Ill. Pulley. No. 1,021,764; Apr. 2; Sp. p. 19; Gaz. vol. 177; p. 6.
Dittbrenner, Charles J., Cornwall, N. Y. Incubator. No. 1,033,555; July 23; Gaz. vol. 180; p. 1048.
Dittlinger, Alphons N., St. Louis, Mo. Rotary gasolene-engine. No. 1,013,139; Jan. 2; Sp. p. 96; Gaz. vol. 174; p. 17.
Dittmar, Louis J., assignor to Pneumatic Jack Company, Louisville, Ky. Pneumatic jack. No. 1,048,301; Dec. 24; Gaz. vol. 185; p. 963.
Dittmar, Max, Wülfel, near Hanover, Germany. Manufacture of phosphoric acid. No. 1,018,746; Feb. 27; Sp. p. 5602; Gaz. vol. 175; p. 969.
Dittmer, Edward J., Durbin, N. D. Railway-spike. No. 1,021,356; Mar. 26; Sp. p. 4983; Gaz. vol. 176; p. 909.
Dittmer, Henry, Portland, Oreg. Hinge for screens. No. 1,031,327; July 2; Gaz. vol. 180; p. 168.
Dittmeyer, William, Rome, N. Y. Belt-shifter. No. 1,036,466; Aug. 20; Gaz. vol. 181; p. 771.
Dittrich, Ferdinand J., Philadelphia, Pa. Roofing-tool. No. 1,017,390; Feb. 13; Sp. p. 2567; Gaz. vol. 175; p. 434.
Dittrich, Julius, London, England. Head or stopper of siphons and the like. No. 1,041,445; Oct. 15; Gaz. vol. 183; p. 664.
Divan, Floyd S., Newark, Ohio. Stovepipe and collar holder. No. 1,040,171; Oct. 1; Gaz. vol. 183; p. 168.
Dix, Joseph J., St. Louis, Mo. Coal furnace and stove. No. 1,023,459; Apr. 16; Sp. p. 3633; Gaz. vol. 177; p. 644.
Dixfield Toothpick Co. (See Stanley, George P., assignor.)
Dixie Cotton Felt Mattress Company. (See Courts, Benjamin D., assignor.)
Dixie Cotton Picker Co. (See Appleby, John F., assignor.)
Dixon, Allen, assignor of one-half to C. T. Williams, Nashville, Tenn. Trap. No. 1,036,084; Aug. 20; Gaz. vol. 181; p. 638.
Dixon, Amos F. (See Craft and Dixon.)
Dixon, Amos F., New York, N. Y., assignor to Western Electric Company, Chicago, Ill. Coin-collector. No. 1,040,526; Oct. 8; Gaz. vol. 183; p. 318.
Dixon, Amos F., New York, N. Y., assignor to Western Electric Company, Chicago, Ill. Indicator. No. 1,045,686; Nov. 26; Gaz. vol. 184; p. 1012.
Dixon, Amos F., Newark, and W. E. Freeman, East Orange, N. J., assignors to Western Electric Company, New York, N. Y. Jack. No. 1,043,810; Nov. 12; Gaz. vol. 184; p. 299.
Dixon, Brandt V. B., New Orleans, La. Hinge. No. 1,016,000; Jan. 30; Sp. p. 6394; Gaz. vol. 174; p. 1112.
Dixon, Elliott, Bacup, England. Bottle-holder. No. 1,016,323; Feb. 6; Sp. p. 200; Gaz. vol. 175; p. 30.
Dixon, Frederick A., Los Angeles, Cal. Show-case construction. No. 1,033,161; July 23; Gaz. vol. 180; p. 916.
Dixon, George M., *et al.* (See Schulz, Wilhelm, assignor.)
Dixon, Henry B. (See Simonds, Noah B., assignor.)
Dixon, Henry H., *et al.* (See Schulz, Wilhelm, assignor.)
Dixon, Henry L., Knoxville, assignor to H. L. Dixon Company, Pittsburgh, Pa. Glass-pot furnace. No. 1,017,391; Feb. 13; Sp. p. 2568; Gaz. vol. 175; p. 434.
Dixon, Henry L., Knoxville, Pa., and A. L. Schram, Hillsboro, Ill. Glass-gathering furnace. No. 1,035,865; Aug. 20; Gaz. vol. 181; p. 563.
Dixon, Henry L., Knoxville, Pa., and A. L. Schram, Hillsboro, Ill. Glass-gathering furnace. No. 1,035,866; Aug. 20; Gaz. vol. 181; p. 563.
Dixon, James W., Chicago, Ill., assignor to American Can Company, New York, N. Y. Feed mechanism for can-body blanks. No. 1,031,251; July 2; Gaz. vol. 180; p. 143.
Dixon, Raymond E., Houston, Tex. Adjustable shade-support. No. 1,032,383; July 16; Gaz. vol. 180; p. 616.
Dixon, Robert M. (See Erb, Edmund M., assignor.)
Dixon, Robert M., East Orange, N. J., assignor to The Safety Car Heating & Lighting Company. Radiator. No. 1,025,518; May 7; Sp. p. 922; Gaz. vol. 178; p. 143.
Dixon, Robert M., East Orange, N. J., assignor to The Safety Car Heating & Lighting Company. Pressure-gage. No. 1,032,384; July 16; Gaz. vol. 180; p. 616.
Dixon, Robert M., East Orange, N. J., assignor to Safety Car Heating & Lighting Company. Heating system. No. 1,047,922; Dec. 24; Gaz. vol. 185; p. 839.
Dixon, Robert M., East Orange, and G. E. Hulse, Jersey City, N. J., assignors to The Safety Car Heating & Lighting Company. Lighting apparatus. No. 1,024,501; Apr. 30; Sp. p. 5905; Gaz. vol. 177; p. 1056.
Dixon, Samuel, Birmingham, Ala. Post-hole-digging machine. No. 1,036,584; Aug. 27; Gaz. vol. 181; p. 846.
Dixon, Samuel J., Littleton, N. C. Extensible window-screen. No. 1,039,911; Oct. 1; Gaz. vol. 183; p. 81.

Alphabetical list of patentees—Continued.

Dixon, Thomas, assignor to Washington Steel & Ordnance Company, Washington, D. C. Means for securing caps to projectiles. No. 1,027,243; May 21; Sp. p. 4777; Gaz. vol. 178; p. 804.
Dixon, William W., Bernardsville, N. J., assignor to Union Clay Products Company, New York, N. Y. Device for examining the interior of pipes. No. 1,035,426; Aug. 13; Gaz. vol. 181; p. 378.
Djunkofsky, Nikolai P., Kharkov, Russia. Harvesting-machine. No. 1,036,467; Aug. 20; Gaz. vol. 181; p. 772.
Doak, James G., Philadelphia, Pa. Roller-skate. No. 1,024,835; Apr. 30; Sp. p. 6668; Gaz. vol. 177; p. 1173.
Doane, Frank H., San Francisco, Cal. Motor-truck No. 1,033,556; July 23; Gaz. vol. 180; p. 1048.
Doane, John C., Los Angeles, Cal. Preserving corn and like cereals. No. 1,044,150; Nov. 12; Gaz. vol. 184; p. 417.
Dobartz, Edward, and W. H. Sigley, Sylvan Grove, Kans.; said Dobartz assignor to Sigfey. Funnel. No. 1,027,378; May 21; Sp. p. 5050; Gaz. vol. 178; p. 850.
Dobbertin, Louis, Lake Charles, La. Flying-machine. No. 1,015,150; Jan. 16; Sp. p. 4551; Gaz. vol. 174; p. 768.
Dobbin, George B. (See Harling and Dobbin.)
Dobbins, Edward L., Jewell, Kans. Building-block. No. 1,019,228; Mar. 5; Sp. p. 486; Gaz. vol. 176; p. 78.
Dobbins, John S., assignor to The New Jersey Wire Stitching Machine Company, Camden, N. J. Clenching device for stapling-machines. No. 1,042,771; Oct. 29; Gaz. vol. 183; p. 1180.
Dobbins Manufacturing Company, The. (See Bartholow, William P., assignor.)
Dobbs, Archibald E. (See East, Dobbs, and Howkins.)
Dobes, Joseph J., Chicago, Ill. Dispensing device. No. 1,017,856; Feb. 20; Sp. p. 3591; Gaz. vol. 175; p. 630.
Dobias, Joseph, Cedar Rapids, Iowa. Water-gage. No. 1,031,536; July 2; Gaz. vol. 180; p. 238.
Dobkevitch, Gaëtan. (See Blondel and Dobkevitch.)
Dobkevitch, Gaëtan, assignor to Société Internationale De La Lampe Electrique O. R., Paris, France. Apparatus for winding the filaments of incandescent electric lamps on their supports. No. 1,039,657; Sept. 24; Gaz. vol. 182; p. 931.
Doble, Abner, assignor to H. A. Doble, Brookline, Mass. Regulator for flash-boilers. No. 1,030,983; July 2; Gaz. vol. 180; p. 46.
Doble, Abner, assignor to H. A. Doble, Brookline, Mass. Electric preheater for pilot-burners. No. 1,040,289; Oct. 8; Gaz. vol. 183; p. 237.
Doble, Helen A. (See Doble, Abner, assignor.)
Doble, May E. (See Doble, William A., assignor.)
Doble, William A., assignor to M. E. Doble, San Francisco, Cal. Nozzle for hydraulic motors. No. 1,025,252; May 7; Sp. p. 320; Gaz. vol. 178; p. 51.
Doble, William A., assignor to M. E. Doble, San Francisco, Cal. Means for controlling the discharge from hydraulic motors. No. 1,025,611; May 7; Sp. p. 1120; Gaz. vol. 178; p. 175.
Doble, William A., assignor to M. E. Doble, San Francisco, Cal. Hydraulic nozzle. No. 1,027,825; May 28; Sp. p. 5975; Gaz. vol. 178; p. 1037.
Doble, William A., assignor to M. E. Doble, San Francisco, Cal. Hydraulic apparatus and means for operating the same. No. 1,028,197; June 4; Sp. p. 312; Gaz. vol. 179; p. 41.
Doble, William A., assignor to M. E. Doble, San Francisco, Cal. Hydro-electric unit. No. 1,028,554; June 4; Sp. p. 1070; Gaz. vol. 179; p. 163.
Doble, William A., San Francisco, assignor to M. E. Doble, Alameda, Cal. Impact water-motor. No. 1,030,393; June 25; Sp. p. 5084; Gaz. vol. 179; p. 906.
Doble, William A., San Francisco, assignor to M. E. Doble, Alameda, Cal. Impact water-motor. No. 1,038,538; Sept. 17; Gaz. vol. 182; p. 527.
Doble, William H., assignor to Pneumatic Scale Corporation, Limited, Quincy, Mass. Carton. No. 1,040,651; Oct. 8; Gaz. vol. 183; p. 366.
Doblin, Charles. (See Everett, George W., assignor.)
Dobson, William J. M., New York, N. Y. Belt-clamp. No. 1,020,748; Mar. 19; Sp. p. 3722; Gaz. vol. 176; p. 653.
Dobyne, Stephen A., assignor to Champion Shoe Machinery Company, St. Louis, Mo. Loose-nailing machine. No. 1,026,024; May 14; Sp. p. 2027; Gaz. vol. 178; p. 350.
Dobyne, Stephen A., assignor to Champion Shoe Machinery Company, St. Louis, Mo. Fastener-inserting machine. No. 1,026,025; May 14; Sp. p. 2032; Gaz. vol. 178; p. 350.
Dobyns, Charles W. (See Stroup, Stuart C., assignor.)
Dock, Frederick W., Wilmington, N. C. Turpentine-box. No. 1,040,527; Oct. 8; Gaz. vol. 183; p. 319.
Dock, Herman, Westerly, R. I. Carbureter. No. 1,043,077; Nov. 5; Gaz. vol. 184; p. 10.
Dock, Herman, Westerly, R. I., assignor, by mesne assignments, to A. A. Whitman, New York, N. Y. Piston. No. 1,014,052; Jan. 9; Sp. p. 2162; Gaz. vol. 174; p. 361.
Dock, Herman, Westerly, R. I., assignor, by mesne assignments, to A. A. Whitman, New York, N. Y. Carbureter. No. 1,040,528; Oct. 8; Gaz. vol. 183; p. 319.
Doctor, Benno. (See Schwieger and Doctor.)
Dodd, Arthur, Howard township, Cass county, Mich. Band-cutter and feeder. No. 1,030,057; June 18; Sp. p. 4346; Gaz. vol. 179; p. 750.
Dodd, James A., Muskogee, Okla. Roller-truck. No. 1,017,517; Feb. 13; Sp. p. 2840; Gaz. vol. 175; p. 479.
Dodd, John W., Lynchburg, Va. Wheel construction. No. 1,028,688; June 4; Sp. p. 1335; Gaz. vol. 179; p. 207.
Doddridge, James M., Milton, and J. C. Beck, Indianapolis, Ind. Detachable casket-handle. No. 1,030,877; July 2; Gaz. vol. 180; p. 10.
Dodds, Frank W., Fort Morgan, Colo. Level. No. 1,016,254; Feb. 6; Sp. p. 21; Gaz. vol. 175; p. 6.
Dodds, Joseph, Glasgow, Scotland. Rotary tippler for use in discharging coal or other mineral from hutches, corves, or the like. No. 1,020,133; Mar. 12; Sp. p. 2400; Gaz. vol. 176; p. 410.
Dodge, Clarence W., Taft, Cal. Well-boring rotary bit. No. 1,017,206; Feb. 13; Sp. p. 2181; Gaz. vol. 175; p. 371.
Dodge, Claude R., Reno, Nev. Laundry-marking machine. No. 1,047,005; Dec. 10; Gaz. vol. 185; p. 456.
Dodge, Dwight A., Haywards, Cal. Door hanger and track. No. 1,032,122; July 9; Gaz. vol. 180; p. 480.
Dodge, Eben G., South Orange, N. J. Battery-plate. No. 1,035,167; Aug. 13; Gaz. vol. 181; p. 286.
Dodge, Eben G., South Orange, N. J. Battery element. No. 1,035,325; Aug. 13; Gaz. vol. 181; p. 342.
Dodge, Eben G., South Orange, N. J. Making battery-plates. No. 1,035,326; Aug. 13; Gaz. vol. 181; p. 342.
Dodge, Eben G., South Orange, N. J. Making battery-plates. No. 1,045,822; Dec. 3; Gaz. vol. 185; p. 9.
Dodge, Eben G., South Orange, N. J. Galvanic battery. No. 1,048,505; Dec. 31; Gaz. vol. 185; p. 1072.
Dodge, Eben G., Newark, N. J. Battery-plate. No. 1,045,823; Dec. 3; Gaz. vol. 185; p. 10.
Dodge, Edward W., Augusta, assignor of one-half to L. L. Carrington, Savannah, Ga. Printing-wheel and ink-fountains. No. 1,018,886; Feb. 27; Sp. p. 5888; Gaz. vol. 175; p. 1015.
Dodge, Henry P., assignor to The Ohio Electric Car Company, Toledo, Ohio. Brake-actuated motor control. No. 1,043,002; Oct. 29; Gaz. vol. 183; p. 1258.
Dodge, Irvin G., San Francisco, Cal. Door-securing device. No. 1,037,457; Sept. 3; Gaz. vol. 182; p. 96.
Dodge, Merton L., Olympia, assignor to Print Check Co., Seattle, Wash. Bank-check-printing machine. No. 1,014,954; Jan. 16; Sp. p. 4168; Gaz. vol. 174; p. 701.
Dodge, Omenzo G., Washington, D. C. Combination-lock. No. 1,019,136; Mar. 5; Sp. p. 286; Gaz. vol. 176; p. 45.
Dodge, Pickering, Falls Church, Va. Pipe-tamper, &c. No. 1,019,028; Mar. 5; Sp. p. 27; Gaz. vol. 176; p. 8.
Dodge, Zenas U. (See Gainer, Edward E., assignor.)
Dodshon, Frederick G., assignor of one-half to Detroit Overall Company, Detroit, Mich. Combined patch and swing pocket. No. 1,033,790; July 30; Gaz. vol. 180; p. 1150.
Dodson, Charles I., Pittsburg, Kans., assignor to The Dodson Manufacturing Company, Phoenix, Ariz. Means for exploding charges. No. 1,024,621; Apr. 30; Sp. p. 6215; Gaz. vol. 177; p. 1097.
Dodson, Charles I., Pittsburg, Kans., assignor to The Dodson Manufacturing Company, Phoenix, Ariz. Means for exploding charges. No. 1,024,622; Apr. 30; Sp. p. 6220; Gaz. vol. 177; p. 1097.
Dodson, Charles M., assignor of one-half to H. W. Parker, Des Moines, Iowa. Apparel-shoe quarter-closure. No. 1,025,901; May 7; Sp. p. 1779; Gaz. vol. 178; p. 273.
Dodson, Joseph H., assignor to C. H. Aldrich, Chicago, Ill. Fluid-clutch. No. 1,042,410; Oct. 29; Gaz. vol. 183; p. 1051.
Dodson Manufacturing Company, The. (See Dodson, Charles I., assignor.)
Dodson, William S., Springfield, Mo., assignor to Humason Rail Joint Company. Rail-joint. No. 1,030,842; June 25; Sp. p. 6419; Gaz. vol. 179; p. 1069.
Doeble, William A. (See Berry, George W., assignor.)
Doebler, Hugo, assignor of one-third to F. D. King and one-third to J. F. Gaynor, Delaware, Ohio. Minute-book for deliberative bodies. No. 1,028,085; May 28; Sp. p. 6578; Gaz. vol. 178; p. 1122.
Doebriner, Frederick. (See Engebritson, Yuha, and Doebriner.)
Doeg, Issachar W., Exeter, N. H. Top-roll-saddle mechanism. No. 1,027,405; May 28; Sp. p. 5115; Gaz. vol. 178; p. 898.
Doellner, Charles F., New York, N. Y. Repair device for pipes. No. 1,045,376; Nov. 26; Gaz. vol. 184; p. 901.
Doering, Carl, Sr., Chicago, Ill. Adjustable display-rack. No. 1,035,553; Aug. 13; Gaz. vol. 181; p. 421.
Doering, Charles, Jr., Oak Park, Ill. Ice-cream dispenser. No. 1,026,080; May 14; Sp. p. 2198; Gaz. vol. 178; p. 371.
Doering, Charles, Jr., Chicago, Ill. Display-rack. No. 1,035,551; Aug. 13; Gaz. vol. 181; p. 420.
Doering, Charles, Jr., Chicago, Ill. Collapsible display-rack. No. 1,035,552; Aug. 13; Gaz. vol. 181; p. 420.
Doerr, Harry E., assignor to Scullin-Gallagher Iron & Steel Company, St. Louis, Mo. Four-wheel truck. No. 1,015,010; Jan. 16; Sp. p. 4289; Gaz. vol. 174; p. 721.

Alphabetical list of patentees—Continued.

Doerr, Harry E., assignor to Scullin-Gallagher Iron & Steel Company, St. Louis, Mo. Four-wheel truck. No. 1,030,394; June 25; Sp. p. 5088; Gaz. vol. 179; p. 907.
Doerr, Harry E., assignor to Scullin-Gallagher Iron and Steel Company, St. Louis, Mo. Six-wheel truck. No. 1,046,153; Dec. 3; Gaz. vol. 185; p. 122.
Doerr, William G., Secane, Pa. Game. No. 1,037,877; Sept. 10; Gaz. vol. 182; p. 267.
Doherty, Frank, and W. J. Robbins, Wellington, New Zealand. Pneumatic tire. No. 1,038,314; Sept. 10; Gaz. vol. 182; p. 414.
Doherty, George V., Somerville, Mass. Non-refillable bottle. No. 1,031,631; July 2; Gaz. vol. 180; p. 271.
Doherty, Henry L., New York, N. Y. Increasing the temperature of combustion in gas-fired furnaces. No. 1,024,678; Apr. 30; Sp. p. 6338; Gaz. vol. 177; p. 1117.
Doherty, Henry L., New York, N. Y. Coking coal and producing gas. No. 1,034,214; July 30; Gaz. vol. 180; p. 1299.
Doherty, Henry L., New York, N. Y. Apparatus for removing suspended matter from gases and vapors. No. 1,034,215; July 30; Gaz. vol. 180; p. 1300.
Doherty, Henry L., New York, N. Y. Apparatus for removing suspended liquids and solids from gases. No. 1,034,216; July 30; Gaz. vol. 180; p. 1300.
Doherty, Henry L., New York, N. Y. Equalizing pressures. No. 1,034,217; July 30; Gaz. vol. 180; p. 1301.
Doherty, Henry L., New York, N. Y. Steam-boiler. No. 1,034,218; July 30; Gaz. vol. 180; p. 1302.
Doherty, Henry L., New York, N. Y. Operating shaft-kilns. No. 1,034,347; July 30; Gaz. vol. 180; p. 1346.
Doherty, Henry L., New York, N. Y. Means for equalizing pressures. No. 1,034,348; July 30; Gaz. vol. 180; p. 1347.
Doherty, Henry L., New York, N. Y. Purifying gases. No. 1,038,315; Sept. 10; Gaz. vol. 182; p. 414.
Doherty, Henry L., New York, N. Y. Recovering combined ammonia from gases. No. 1,043,210; Nov. 5; Gaz. vol. 184; p. 59.
Doherty, Henry L., New York, N. Y. Recovering ammonia salt from the distillation gases of coal. No. 1,043,211; Nov. 5; Gaz. vol. 184; p. 59.
Doherty, Henry L., New York, N. Y. Manufacturing ammonium carbonate and sulfur from crude coal-gas. No. 1,043,212; Nov. 5; Gaz. vol. 184; p. 60.
Doherty, Henry L., New York, N. Y. Operating gas-producers. No. 1,043,213; Nov. 5; Gaz. vol. 184; p. 60.
Doherty, Henry L., New York, N. Y. Apparatus for manufacturing gas. No. 1,043,304; Nov. 5; Gaz. vol. 184; p. 92.
Doherty, Henry L., New York, N. Y. Hydraulic main. No. 1,043,409; Nov. 5; Gaz. vol. 184; p. 130.
Doherty, Henry L., New York, N. Y. Manufacturing oxygen. No. 1,048,812; Dec. 31; Gaz. vol. 185; p. 1180.
Doherty, John M., Munson, Alberta, Canada. Scrubbing-machine. No. 1,040,172; Oct. 1; Gaz. vol. 183; p. 168.
Dohle, Fritz, assignor to Adolf Bleichert & Company, Leipzig-Gohlis, Germany. Hauling-rope grip for rope railways. No. 1,031,328; July 2; Gaz. vol. 180; p. 169.
Dohrn, Max, assignor to Chemische Fabrik auf Actien (vorm. E. Schering), Berlin, Germany. Methyl ester of 8-methoxy-2-phenylquinolin-4-carboxylic acid. No. 1,045,377; Nov. 26; Gaz. vol. 184; p. 901.
Dohrn, Max, assignor to Chemische Fabrik auf Actien (vorm. E. Schering), Berlin, Germany. Ethyl ester of 8-methoxy-2-phenylquinolin-4-carboxylic acid. No. 1,045,378; Nov. 26; Gaz. vol. 184; p. 901.
Dohrn, Max, assignor to Chemische Fabrik auf Actien (vorm. E. Schering), Berlin, Germany. Methyl ester of 6-methyl-2-phenylquinolin-4-carboxylic acid. No. 1,045,379; Nov. 26; Gaz. vol. 184; p. 901.
Dohrn, Max, Charlottenburg, and A. Thiele, assignors to Chemische Fabrik auf Actien (vorm. E. Schering), Berlin, Germany. Manufacture of phenylated 6.6-diquinolyl-4.4-dicarboxylic acids and homologues. No. 1,032,123; July 9; Gaz. vol. 180; p. 480.
Doidge, John J., assignor, by mesne assignments, to R. H. Long Machinery Company, South Framingham, Mass. Eyeleting-machine. No. 1,035,554; Aug. 13; Gaz. vol. 181; p. 421.
Doidge, John J., assignor, by mesne assignments, to The R. H. Long Machinery Company, South Framingham, Mass. Gang eyeleting-machine. No. 1,036,808; Aug. 27; Gaz. vol. 181; p. 919.
Doinikoff, Wladimir, Karlsruhe, Germany. Alternating-current commutator dynamo-electric machine. No. 1,038,861; Sept. 17; Gaz. vol. 182; p. 640.
Dokkenwadel, Frederick G., Coshocton, Ohio. Insecticidal-fertilizer cartridge. No. 1,038,316; Sept. 10; Gaz. vol. 182; p. 415.
Dolan, Edward J., Philadelphia, Pa. Fuel. No. 1,025,902; May 7; Sp. p. 1780; Gaz. vol. 178; p. 273.
Dolan, Felix J., Riverside, Cal. Fruit-clippers. No. 1,037,737; Sept. 3; Gaz. vol. 182; p. 188.
Dolan, John, Duquesne, Pa. Wrench. No. 1,036,585; Aug. 27; Gaz. vol. 181; p. 846.
Dolan, Thomas F., Cando, N. D. Bridle-bit. No. 1,037,878; Sept. 10; Gaz. vol. 182; p. 268.
Dolan, William J. (See Larson, Bennett, assignor.)
Dolben, William L., Chicago, Ill. Hydrogen-gas generator. No. 1,015,875; Jan. 30; Sp. p. 6121; Gaz. vol. 174; p. 1067.
Dole, John A. (See Dole, William E. and J. A.)
Dole, Raymond C., and C. A. Hinemeyer, Toledo, Ohio. Speed-indicator. No. 1,031,537; July 2; Gaz. vol. 180; p. 238.
Dole Valve Company. (See Allen, Everett P., assignor.)
Dole, William E. and J. A., Oak Hill, Ohio. Brick-press. No. 1,042,655; Oct. 29; Gaz. vol. 183; p. 1139.
Dolenský, Eugen, assignor to Corporation of Dellwik-Fleischer Wassergas-Gesellschaft m. b. H., Frankfort-on-the-Main, Germany. Coupling for pipes and the like. No. 1,014,053; Jan. 9; Sp. p. 2163; Gaz. vol. 174; p. 361.
Dolensky, Eugen, assignor to The Corporation of Dellwik-Fleischer Wassergas Gesellschaft m. b. H., Frankfort-on-the-Main, Germany. Welding apparatus. No. 1,042,411; Oct. 29; Gaz. vol. 183; p. 1052.
Doles, Elijah, Pine Bluff, Ark. Pocket-knife. No. 1,030,058; June 18; Sp. p. 4347; Gaz. vol. 179; p. 750.
Dolezal, Anna. (See Bugla, Mary, assignor.)
Doll, Adolph. (See Avisus and Doll.)
Doll, Herman F., Wichita, Kans. Changeable front door. No. 1,018,101; Feb. 20; Sp. p. 4165; Gaz. vol. 175; p. 716.
Doll, William F., Liberty, N. Y. Resilient wheel. No. 1,048,813; Dec. 31; Gaz. vol. 185; p. 1180.
Dolle, Charles F., Cincinnati, Ohio. Telephone apparatus. No. 1,036,809; Aug. 27; Gaz. vol. 181; p. 919.
Doller, Henry, Philadelphia, Pa. Hair-combing machine. No. 1,043,909; Nov. 12; Gaz. vol. 184; p. 334.
Dollings, Raymond L., Wyoming, Ohio. Article of food and producing same. No. 1,039,912; Oct. 1; Gaz. vol. 183; p. 81.
Dolph, Otto W., assignor to The O. Armleder Company, Cincinnati, Ohio. Sliding-door hanger. No. 1,041,446; Oct. 15; Gaz. vol. 183; p. 664.
Dolson, Martin O., Los Angeles, Cal. Trolley-pole governor. No. 1,049,292; Dec. 31; Gaz. vol. 185; p. 1343.
Doman, Lewis B., Elbridge, N. Y. Self-playing musical instrument. No. 1,038,498; Sept. 10; Gaz. vol. 182; p. 478.
Doman, Lewis B., Elbridge, N. Y. Tracker-bar for self-playing musical instruments. No. 1,039,658; Sept. 24; Gaz. vol. 182; p. 931.
Doman, Lewis B., Elbridge, N. Y. Tracker-bar. No. 1,039,659; Sept. 24; Gaz. vol. 182; p. 931.
Doman, Lewis B., Syracuse, N. Y. Tempo-governing device for self-playing musical instruments. No. 1,039,660; Sept. 24; Gaz. vol. 182; p. 932.
Doman, Lewis B., assignor to The Amphion Piano Player Company, Syracuse, N. Y. Valve for pneumatic actions. No. 1,017,857; Feb. 20; Sp. p. 3593; Gaz. vol. 175; p. 630.
Dombach, Johann G. F., Amsterdam, Netherlands. Treatment of grain. No. 1,040,290; Oct. 8; Gaz. vol. 183; p. 237.
Dombroski, Joe, Chelsea, Mass. Feed-bag. No. 1,018,170; Feb. 20; Sp. p. 4312; Gaz. vol. 175; p. 741.
Domestic Appliances Company. (See Flynt, Louis W. G., assignor.)
Domestic Sewing Machine Company. (See Davis, Stephen A., assignor.)
Dominguez, Frank R., El Rio, Cal. Ignition system. No. 1,048,302; Dec. 24; Gaz. vol. 185; p. 964.
Domizi, David F., Franklin, Pa. Chuck for piston-rings. No. 1,024,882; Apr. 30; Sp. p. 6759; Gaz. vol. 177; p. 1189.
Domizi, David F., Franklin, Pa. Closing and chucking device for piston-rings. No. 1,031,987; July 9; Gaz. vol. 180; p. 436.
Domnick, Otto, Aken, Germany. Protective envelop for glass receptacles. No. 1,020,269; Mar. 12; Sp. p. 2681; Gaz. vol. 176; p. 455.
Domogalla, Vincent, Salem, Oreg. Rail-joint. No. 1,038,862; Sept. 17; Gaz. vol. 182; p. 640.
Domoto, Takanoshin, San Francisco, Cal. Can-lining. No. 1,020,134; Mar. 12; Sp. p. 2403; Gaz. vol. 176; p. 410.
Don Jian, Dickran M., Washington, D. C. Device for removing and curing corns. No. 1,025,903; May 7; Sp. p. 1781; Gaz. vol. 178; p. 273
Donaghey, Micagah P., *et al.* (See Hammock, Robert E., assignor.)
Donaghey, Mordecia B., *et al.* (See Hammock, Robert E., assignor.)
Donahey, George S., Pittsburg, Kans. Producing fire and water proof articles. No. 1,015,426; Jan. 23; Sp. p. 5163; Gaz. vol. 174; p. 887.
Donahoe, Hedley J., assignor of one-half to T. C. Tiedebohl, Chicago, Ill. Metallic vehicle-wheel. No. 1,018,303; Feb. 20; Sp. p. 4575; Gaz. vol. 175; p. 785.
Donahoe, Hedley J., assignor of one-half to T. C. Tiedebohl, Chicago, Ill. Metallic vehicle-wheel. No. 1,029,856; June 18; Sp. p. 3912; Gaz. vol. 179; p. 681.
Donahue, Edward R., H. J. Anderson, and H. B. Gregg, Bradford, Pa. Pull-line coupling. No. 1,022,306; Apr. 2; Sp. p. 1153; Gaz. vol. 177; p. 185.
Donahue, Joseph F. (See Hammond and Donahue.)

Alphabetical list of patentees—Continued.

Donald, Alexander M., Oberon, Manitoba, Canada. Adjustable weed-hook for plows and cultivators. No. 1,015,756; Jan. 23; Sp. p. 5871; Gaz. vol. 174; p. 1001.
Donald, Edwin S. (See Donald, Henry B. and E. S.)
Donald, Henry B. and E. S., Leeds, England. Combination-boiler for heating apparatus and hot-water supply. No. 1,028,555; June 4; Sp. p. 1072; Gaz. vol. 179; p. 163.
Donald, Mary, New York, N. Y. Veil. No. 1,020,083; Mar. 12; Sp. p. 2295; Gaz. vol. 176; p. 393.
Donald, Percy G., and M. H. Matthews, London, England. Elevator or conveyer. No. 1,039,499; Sept. 24; Gaz. vol. 182; p. 875.
Donaldson, Elizabeth C., Detroit, Mich. Electric heater No. 1,035,555; Aug. 13; Gaz. vol. 181; p. 421.
Donaldson, Harry A. (See Helsing and Donaldson.)
Donaldson, James A., *et al.* (See Neil, James A., assignor.)
Donaldson, William W., Kewanee, Ill. Combined advertising medium and fly-trap. No. 1,024,187; Apr. 23; Sp. p. 5217; Gaz. vol. 177; p. 914.
Donat, Gustavo, assignor of one-half to E. Blauvelt, Passaic, N. J. Cutter for cutting paper-board. No. 1,034,088; July 30; Gaz. vol. 180; p. 1257.
Donat, Joseph L., Chicago, Ill. Telephone attachment. No. 1,025,690; May 7; Sp. p. 1292; Gaz. vol. 178; p. 201.
Donath, Otto A., Sedalia, Mo. Valve-gear. No. 1,015,792; Jan. 30; Sp. p. 5951; Gaz. vol. 174; p. 1041.
Donathan, James W., Cresson, Tex. Automatic poultry-disinfector. No. 1,045,129; Nov. 26; Gaz. vol. 184; p. 815.
Donavin, George B. (See Parsons, Charles J., assignor.)
Donegan, William R., and J. J. Walsh, Hartford, Conn. Wind-shield attachment. No. 1,046,565; Dec. 10; Gaz. vol. 185; p. 307.
Doner, Martin J., assignor of one-half to H. A. Peters, Chicago, Ill. Automatic sign. No. 1,019,770; Mar. 12; Sp. p. 1656; Gaz. vol. 176; p. 289.
Doner, Martin J., assignor of one-third to C. G. Gibson and one-third to C. F. Dynes, Chicago, Ill. Cornerbead. No. 1,015,381; Jan. 23; Sp. p. 5060; Gaz. vol. 174; p. 873.
Doney, Charles S., assignor to Doney Electrical Agricultural System, Columbia Falls, Mont. Electrical agricultural system. No. 1,044,751; Nov. 19; Gaz. vol. 184; p. 656.
Doney Electrical Agricultural System. (See Doney, Charles S., assignor.)
Donges, Jacob, Drayton, Queensland, Australia. Screening mechanism. No. 1,025,791; May 7; Sp. p. 1496; Gaz. vol. 178; p. 236.
Donham, Thomas F., Terre Haute, Ind. Chainless corn-planter. No. 1,031,538; July 2; Gaz. vol. 180; p. 239.
Donley, William F., Binghamton, N. Y. Collapsible holder and carrier. No. 1,043,572; Nov. 5; Gaz. vol. 184; p. 189.
Donnell, James W., Evanston, Ill. Alloy. No. 1,025,131; May 7; Sp. p. 44; Gaz. vol. 178; p. 9.
Donnellan-Bock Manufacturing Company. (See Bock, Alfred C. O., assignor.)
Donnelly, Frank M. (See Devereaux, Francis A., assignor.)
Donnelly, James A., New York, N. Y. Steam-heating apparatus. No. 1,047,622; Dec. 17; Gaz. vol. 185; p. 706.
Donnelly, John, Branford, Conn. Lineman's climber. No. 1,026,853; May 21; Sp. p. 3878; Gaz. vol. 178; p. 669.
Donnelly, John F., and H. Lyon, Brockton, Mass.; said Lyon assignor to said Donnelly. Leather-scarfing machine. No. 1,018,171; Feb. 20; Sp. p. 4313; Gaz. vol. 175; p. 741.
Donnelly, John J., Denver, Colo. Aerial vessel. No. 1,014,643; Jan. 16; Sp. p. 3461; Gaz. vol. 174; p. 595.
Donnelly, Joseph E. and T. F., Cleveland, Ohio. Fire-doors for elevator-shafts. No. 1,021,304; Mar. 26; Sp. p. 4877; Gaz. vol. 176; p. 890.
Donnelly, Thomas F. (See Donnelly, Joseph E. and T. F.)
Donnelly, William T., Brooklyn, N. Y. Floating dry-dock. No. 1,019,434; Mar. 5; Sp. p. 995; Gaz. vol. 176; p. 145.
Donnelly, William T., Brooklyn, N. Y. Dredging apparatus. No. 1,019,610; Mar. 5; Sp. p. 1342; Gaz. vol. 176; p. 203.
Donnelly, William T., Brooklyn, N. Y. Sectional floating dry-dock. No. 1,019,611; Mar. 5; Sp. p. 1344; Gaz. vol. 176; p. 204.
Donner, Frederick G., Pittsburgh, Pa. Plane for aeroplanes. No. 1,038,317; Sept. 10; Gaz. vol. 182; p. 415.
Donoghue, James, Cleveland, Ohio. Tool-handle. No. 1,035,427; Aug. 13; Gaz. vol. 181; p. 378.
Donoghue, John J., Chicago, Ill. Chain pipe-wrench. No. 1,021,357; Mar. 26; Sp. p. 4983; Gaz. vol. 176; p. 910.
Donohue, Frank B. (See Craig, Robert M., assignor.)
Donovan, F. J., *et al.* (See Applegate, Cyrus M., assignor.)
Donovan, Herbert T., West Webster, N. Y. Paring-machine. No. 1,013,280; Jan. 2; Sp. p. 414; Gaz. vol. 174; p. 67.
Donovan, John W. (See Merwin and Donovan.)
Donovan, Patrick J., Collins, Wis. Shock-loader. No. 1,032,124; July 9; Gaz. vol. 180; p. 480.
Donovan, Silas S., assignor to The Wilcox & White Company, Meriden, Conn. Player-piano action. No. 1,022,066; Apr. 2; Sp. p. 665; Gaz. vol. 177; p. 106.
Donovan, Theodore J., Sharon, Pa. Valve. No. 1,031,539; July 2; Gaz. vol. 180; p. 239.
Donovan, Timothy J., Syracuse, N. Y. Bathing-machine. No. 1,025,612; May 7; Sp. p. 1127; Gaz. vol. 178; p. 175.
Doolan, Henry J., Norfolk, Va. Packing. No. 1,025,792; May 7; Sp. p. 1498; Gaz. vol. 178; p. 237.
Doolittle, Elbridge C. (See Maltby and Doolittle.)
Doolittle, James E., assignor to Birdsey, Somers Company, Bridgeport, Conn. Front-clasp cover and stay-pocket for corsets. No. 1,014,697; Jan. 16; Sp. p. 3581; Gaz. vol. 174; p. 613.
Doolittle, Lewis J., New York, N. Y. Automatic feeding device for soap-machines. No. 1,041,754; Oct. 22; Gaz. vol. 183; p. 803.
Doolittle, Perry E., Ontario, Canada, assignor, by mesne assignments, to Doolittle Rim Co. Ltd. Detachable rim for pneumatic tires. No. 1,018,238; Feb. 20; Sp. p. 4447; Gaz. vol. 175; p. 763.
Doolittle Rim Co. Ltd. (See Doolittle, Perry E., assignor.)
Doolittle, Samuel M., Decker, Ind. Making fertilizer. No. 1,045,130; Nov. 26; Gaz. vol. 184; p. 815.
Doolittle, Tracy W., C. S. Winsor, and C. Vergason, Binghamton, N. Y. Adjustable mounted roller. No. 1,021,579; Mar. 26; Sp. p. 5486; Gaz. vol. 176; p. 986.
Döppenschmitt, Frederich, Pforzheim, Germany. Ornamental chain fabric. No. 1,031,632; July 2; Gaz. vol. 180; p. 272.
Dor-Delattre, Emile, Liege, Belgium. Hydraulic press for producing hollow earthenware bodies. No. 1,027,597; May 28; Sp. p. 5499; Gaz. vol. 178; p. 961.
Dor-Delattre, Emile, Liege, Belgium. Means for handling smelting-furnace residues. No. 1,031,918; July 9; Gaz. vol. 180; p. 413.
Dorais, Louis P., Eureka, Cal. Waste-cotton container. No. 1,026,081; May 14; Sp. p. 2200; Gaz. vol. 178; p. 371.
Dorais, Samuel, Chicago, Ill., assignor to Evans, Almirall & Company, trustee, New York, N. Y. Fire-extinguisher. No. 1,042,536; Oct. 29; Gaz. vol. 183; p. 1097.
Doran, Robert L., Chicago, Ill. Hydrocarbon-lamp. No. 1,019,229; Mar. 5; Sp. p. 487; Gaz. vol. 176; p. 78.
Dorau, John P., Jefferson, Wis. Washbench. No. 1,031,697; July 9; Gaz. vol. 180; p. 337.
Doredant, Theodore C., New Orleans, La. Attachment for cans. No. 1,013,750; Jan. 2; Sp. p. 1459; Gaz. vol. 174; p. 230.
Dorey, William A., Newark, Ohio, assignor to Holophane Glass Company, New York, N. Y. Illuminating appliance. No. 1,042,412; Oct. 29; Gaz. vol. 183; p. 1052.
Dorffel, George, Oakland, Cal. Sleeper. No. 1,021,666; Mar. 26; Sp. p. 5633; Gaz. vol. 176; p. 1013.
Dorffel, George, Oakland, Cal. Spring-wheel. No. 1,035,556; Aug. 13; Gaz. vol. 181; p. 422.
Dorffel, George, Oakland, Cal. Resilient wheel. No. 1,040,173; Oct. 1; Gaz. vol. 183; p. 168.
Dorgan, William T., assignor to The Standard Tire Protector Company, Akron, Ohio. Tire-protector. No. 1,027,108; May 21; Sp. p. 4506; Gaz. vol. 178; p. 759.
Dorgeloh, George H., Schenectady, N. Y., assignor to General Electric Company. Starting device for single-phase motors. No. 1,019,435; Mar. 5; Sp. p. 997; Gaz. vol. 176; p. 146.
Dorgeloh, George H., Schenectady, N. Y., assignor to General Electric Company. Controlling device for electric motors. No. 1,019,436; Mar. 5; Sp. p. 999; Gaz. vol. 176; p. 146.
Dorin, Joseph, Rouen, France. Apparatus for hoisting pieces of furniture and similar objects through windows of upper stories of buildings. No. 1,045,131; Nov. 26; Gaz. vol. 184; p. 815.
Döring, Hermann, Berlin, Germany. Street-refuse collector. No. 1,016,556; Feb. 6; Sp. p. 761; Gaz. vol. 175; p. 112.
Dorman, Bert E., assignor of one-half to W. Coyle, Sr., Moline, Ill. Closet and urinal flusher. No. 1,025,740; May 7; Sp. p. 1398; Gaz. vol. 178; p. 218.
Dorman, William S., Brooklyn, N. Y., and R. C. Manville, Waterbury, Conn., assignors to R. A. Canfield, Providence, R. I. Stopper-making machine. No. 1,039,661; Sept. 24; Gaz. vol. 182; p. 932.
Dormandy, Garry J., Troy, N. Y., assignor to The Reece Button Hole Machine Company, Boston, Mass. Button-hole-machine. No. 1,015,011; Jan. 16; Sp. p. 4290; Gaz. vol. 174; p. 721.
Dormandy, Garry J., assignor of one-half to United Shirt & Collar Company, Troy, N. Y. Sewing-machine. No. 1,016,937; Feb. 13; Sp. p. 1567; Gaz. vol. 175; p. 277.
Dormandy, Garry J., Troy, N. Y., assignor to The United Shirt and Collar Company. Machine for folding blanks for cuffs, &c. No. 1,017,040; Feb. 13; Sp. p. 1794; Gaz. vol. 175; p. 313.
Dormandy, Garry J., assignor of one-half to United Shirt and Collar Company, Troy, N. Y. Electric-lamp bracket. No. 1,025,519; May 7; Sp. p. 924; Gaz. vol. 178; p. 144.

Alphabetical list of patentees—Continued.

Dorn, George, assignor to C. T. Wilt, Chicago, Ill. Suspension-fixture device for wardrobe-trunks. No. 1,015,547; Jan. 23; Sp. p. 5417; Gaz. vol. 174; p. 928.
Dorn, Hans, Suhl, Germany. Automatic-loading firearm. No. 1,041,046; Oct. 15; Gaz. vol. 183; p. 530.
Dorner, Albert. (See Neumann and Dorner.)
Dorner, Béla, Budapest, Austria-Hungary. Utilizing Indian-corn straw. No. 1,038,730; Sept. 17; Gaz. vol. 182; p. 594.
Dorneth, Julius, assignor to Typograph G. m. b. H., Berlin, Germany. Matrix-setting and line-casting machine. No. 1,015,479; Jan. 23; Sp. p. 5288; Gaz. vol. 174; p. 905.
Dorneth, Julius, assignor to Typograph G. m. b. H., Berlin, Germany. Matrix-setting and line-casting machine. No. 1,021,827; Apr. 2; Sp. p. 171; Gaz. vol. 177; p. 28.
Dorneth, Julius, assignor to Typograph G. m. b. H., Berlin, Germany. Typograph-machine. No. 1,021,828; Apr. 2; Sp. p. 172; Gaz. vol. 177; p. 28.
Dorneth, Julius, assignor to Typograph G. M. B. H., Berlin, Germany. Typograph matrix-setting and line-casting machine. No. 1,030,878; July 2; Gaz. vol. 180; p. 10.
Dörr, Gustav C., Frankfort-on-the-Main, Germany. Dyeing vegetable fiber. No. 1,047,923; Dec. 24; Gaz. vol. 185; p. 839.
Dorr, John V. (See Nevill, David J., assignor.)
Dorrance, David W., Koler, Oreg. Artificial hand. No. 1,042,413; Oct. 29; Gaz. vol. 183; p. 1053.
Dorsey, Allen T., St. Louis, Mo. Cloth-package. No. 1,031,252; July 2; Gaz. vol. 180; p. 143.
Dorsey, Arthur A., Fulton, Kans. Corn-harvester. No. 1,015,942; Jan. 30; Sp. p. 6268; Gaz. vol. 174; p. 1091.
Dorsey, Charles J., Baltimore, Md. Convertible toy vehicle. No. 1,020,027; Mar. 12; Sp. p. 2173; Gaz. vol. 176; p. 374.
Dorsey, Farnum F. (See Goddard and Dorsey.)
Dorsey, Farnum F., New York, N. Y., assignor to A. Woeber, Davenport, Iowa. Vehicle-wheel. No. 1,032,125; July 9; Gaz. vol. 180; p. 481.
Dorsey, Farnum F., New York, N. Y., assignor to United Shoe Machinery Company, Paterson, N. J. Stitch-impression machine. No. 1,047,924; Dec. 24; Gaz. vol. 185; p. 839.
Dorsey, Farnum F., Winchester, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Automatic sole-machine. No. 1,044,443; Nov. 12; Gaz. vol. 184; p. 517.
Dorsey, Farnum F., Rochester, N. Y., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for forming ornamental indentations upon leather. No. 1,048,506; Dec. 31; Gaz. vol. 185; p. 1072.
Dorsey, Herbert G., Ithaca, N. Y. Device for graphically reproducing sound-waves. No. 1,017,392; Feb. 13; Sp. p. 2570; Gaz. vol. 175; p. 435.
Dorsey, James C. and W. R., Las Animas, Colo. Dirt-handling apparatus. No. 1,047,006; Dec. 10; Gaz. vol. 185; p. 456.
Dorsey, James C. and W. W., assignors of one-fourth to R. Baublits and one-fourth to M. F. Loub, Las Animas, Colo. Intercepting-chute. No. 1,015,480; Jan. 23; Sp. p. 5289; Gaz. vol. 174; p. 906.
Dorsey, John F. (See Clark and Dorsey.)
Dorsey, Samuel W., Des Moines, Iowa. Tent. No. 1,045,132; Nov. 26; Gaz. vol. 184; p. 816.
Dorsey, Walter W. (See Dorsey, James C. and W. W.)
Dorsey, William R. (See Dorsey, James C. and W. R.)
Doruscak, Andrew, Lorain, Ohio. Umbrella. No. 1,034,590; Aug. 6; Gaz. vol. 181; p. 63.
Dosch, Oliver L., Elizabeth, N. J., assignor to The Singer Manufacturing Company. Polishing-machine. No. 1,020,946; Mar. 19; Sp. p. 4115; Gaz. vol. 176; p. 718.
Dosch, Oliver L., Elizabeth, N. J., assignor to The Singer Manufacturing Company. Polishing-machine. No. 1,048,137; Dec. 24; Gaz. vol. 185; p. 910.
Dosch, Peter, Stratford, Conn. Boot and shoe. No. 1,022,537; Apr. 9; Sp. p. 1651; Gaz. vol. 177; p. 293.
Dosselman, Gustave, and P. Neymann, Chicago, Ill., assignors, by mesne assignments, to Chadeloid Chemical Company, New York, N. Y. Composition for removing surface-finishes. No. 1,014,211; Jan. 9; Sp. p. 2479; Gaz. vol. 174; p. 417.
Dossert, John J. (See Hinds and Dossert.)
Dossor, Frederick M., Doncaster, England. Apparatus for cleaning and separating seeds and the like. No. 1,028,447; June 4; Sp. p. 853; Gaz. vol. 179; p. 127.
Doszpoly, László, Pottstown, Pa. Cuspidor for cars and the like. No. 1,048,396; Dec. 24; Gaz. vol. 185; p. 996.
Doty, Charles E., Waynesburg, Pa. Rail chair and joint. No. 1,021,580; Mar. 26; Sp. p. 5487; Gaz. vol. 176; p. 986.
Doty, Edwin A., Albany, N. Y. Nut-lock. No. 1,039,710; Oct. 1; Gaz. vol. 183; p. 13.
Doty, Giles S., and J. D. Show, Philadelphia, Pa., assignors to D. & S. Airless Tire Company. Elastic tire. (Reissue.) No. 13,419; May 14; Sp. p. 3423; Gaz. vol. 178; p. 564.
Doty, John C., Mount Vernon, Ohio. Flying-machine. No. 1,023,927; Apr. 23; Sp. p. 4630; Gaz. vol. 177; p. 823.
Doty, Orlo, Pueblo, Colo. Baggage-truck. No. 1,017,858; Feb. 20; Sp. p. 3594; Gaz. vol. 175; p. 630.
Doubet, Sylvester, assignor to Wantling Mfg. Co., Peoria, Ill. Drill. No. 1,013,281; Jan. 2; Sp. p. 419; Gaz. vol. 174; p. 67.
Double Body Bolster Company. (See Frede and Westlake, assignors.)
Double Body Bolster Company. (See Howard and Pflager, assignors.)
Double Body Bolster Company. (See McCauley, Albert J., assignor.)
Double Body Bolster Company. (See Pflager, Harry M., assignor.)
Double Body Bolster Company. (See Shallenberger, Charles S., assignor.)
Double Body Bolster Company. (See Westlake, Charles T., assignor.)
Double Body Bolster Company. (See Westlake and Frede, assignors.)
Double, Edward, and A. Craig, Los Angeles, Cal. Apparatus for elevating casings. No. 1,014,955; Jan. 16; Sp. p. 4171; Gaz. vol. 174; p. 701.
Double Spring Shuttle Company, The. (See Lacroix, Joseph, assignor.)
Doubt, Thomas E., Chicago, Ill. Machine for burning hardback and the like. No. 1,027,038; May 21; Sp. p. 4334; Gaz. vol. 178; p. 735.
Doucet, Edward, Manchester, N. H. Hat-pin guard. No. 1,020,890; Mar. 19; Sp. p. 4007; Gaz. vol. 176; p. 699.
Doud, Arthur N., Cleveland, Ohio. Dumping-car. No. 1,038,318; Sept. 10; Gaz. vol. 182; p. 415.
Doudney, Raymond P., Faringdon, England. Carbureting apparatus. No. 1,019,309; Mar. 5; Sp. p. 681; Gaz. vol. 176; p. 106.
Douds, Frank F., Canton, Ohio. Band-forming pliers. No. 1,034,591; Aug. 6; Gaz. vol. 181; p. 63.
Dougan, Kennedy, Minneapolis, Minn. Steam-pump. No. 1,043,214; Nov. 5; Gaz. vol. 184; p. 60.
Dougan, Robert C., Millersburg, Ohio. Cultivator. No. 1,041,447; Oct. 15; Gaz. vol. 183; p. 664.
Dougherty, Charles J., Philadelphia, Pa. Split gear. No. 1,041,448; Oct. 15; Gaz. vol. 183; p. 665.
Dougherty, Everett M., Escanaba, Mich. Display apparatus. No. 1,021,358; Mar. 26; Sp. p. 4985; Gaz. vol. 176; p. 910.
Dougherty, James P., and M. Beeman, Dallas, Tex. Amusement device. No. 1,035,168; Aug. 13; Gaz. vol. 181; p. 286.
Dougherty, James W., McKeesport, Pa. Activity-recorder. No. 1,041,252; Oct. 15; Gaz. vol. 183; p. 600.
Dougherty, John W., Steelton, Pa. Furnace-charging device. No. 1,024,623; Apr. 30; Sp. p. 6224; Gaz. vol. 177; p. 1097.
Dougherty, Owen T. (See Myer, Albert P., assignor.)
Dougherty, Thomas F., New York, N. Y. Balcony for fire-ladders. No. 1,013,751; Jan. 2; Sp. p. 1460; Gaz. vol. 174; p. 231.
Doughty, Howard W., Amherst, Mass. Humidor. No. 1,026,154; May 14; Sp. p. 2347; Gaz. vol. 178; p. 396.
Dougine, James T., Kenosha, Wis. Hydraulic-power plant. No. 1,024,188; Apr. 23; Sp. p. 5218; Gaz. vol. 177; p. 914.
Douglas, Alvin M., *et al.* (See Smith, Charles D., assignor.)
Douglas, Charles H., Quincy, Mich. Saw. No. 1,033,996; July 30; Gaz. vol. 180; p. 1224.
Douglas, Charles H., Quincy, Mich. Wrench. No. 1,038,539; Sept. 17; Gaz. vol. 182; p. 527.
Douglas, Edwin R., Glenside, Pa. Buffing-machine. No. 1,022,128; Apr. 2; Sp. p. 793; Gaz. vol. 177; p. 126.
Douglas, Edwin R., Abington, assignor to The Hero Manufacturing Company, Philadelphia, Pa. Collapsible drinking vessel. No. 1,040,652; Oct. 8; Gaz. vol. 183; p. 367.
Douglas, Harry A., Chicago, Ill., assignor to The Adams & Westlake Company. Wind-shield. No. 1,027,528; May 28; Sp. p. 5353; Gaz. vol. 178; p. 938.
Douglas, Harry A., assignor to The Adams & Westlake Company, Chicago, Ill. Lamp. No. 1,027,529; May 28; Sp. p. 5356; Gaz. vol. 178; p. 938.
Douglas, Harry A., Chicago, Ill., assignor to The Adams & Westlake Company. Wind-shield. No. 1,037,604; Sept. 3; Gaz. vol. 182; p. 143.
Douglas, John, Newark, N. J., assignor to The Singer Manufacturing Company. Multiple-tuck folder for sewing-machines. No. 1,024,317; Apr. 23; Sp. p. 5472; Gaz. vol. 177; p. 959.
Douglas, Kendall. (See McCarty, Douglas, and Herrguth.)
Douglas, Roy C., Oakland, Cal. Fog-signal light. No. 1,018,304; Feb. 20; Sp. p. 4576; Gaz. vol. 175; p. 785.
Douglas, Theodore, Scarboro, N. Y. Railway-car-connecting platform. No. 1,040,529; Oct. 8; Gaz. vol. 183; p. 320.
Douglas, William H., Belleville, N. J., assignor to Healey & Co., New York, N. Y. Electric driving-gear for motor-vehicles. No. 1,041,449; Oct. 15; Gaz. vol. 183; p. 665.
Douglas, William M., Galveston, Tex. Automatic gun or rifle. No. 1,025,132; May 7; Sp. p. 46; Gaz. vol. 178; p. 9.
Douglass, Arthur L., Tularosa, N. Mex. Pump-rod coupling. No. 1,028,689; June 4; Sp. p. 1336; Gaz. vol. 179; p. 207.

Alphabetical list of patentees—Continued.

Douglass, Harry J., Bellingham, Wash. Feeding mechanism. No. 1,022,581; Apr. 9; Sp. p. 1745; Gaz. vol. 177; p. 308.
Douglass, Harry J., Bellingham, Wash. Receptacle-closure-marking machine. No. 1,026,790; May 21; Sp. p. 3745; Gaz. vol. 178; p. 648.
Douglass, John A., Austin, Tex. Display-cabinet. No. 1,016,818; Feb. 6; Sp. p. 1302; Gaz. vol. 175; p. 200.
Douglass, John A., Austin, Tex. Skirt-rack. No. 1,034,892; Aug. 6; Gaz. vol. 181; p. 165.
Douglass, John R., Logansport, Ind. Loss-preventing device. No. 1,039,662; Sept. 24; Gaz. vol. 182; p. 932.
Douglass, Laurent A. (See Knowland, Thomas P., assignor.)
Douglass, Leon F., San Rafael, Cal., assignor to Victor Talking Machine Company. Sound-box. No. 1,017,041; Feb. 13; Sp. p. 1805; Gaz. vol. 175; p. 313.
Douglass, Leon F., San Rafael, Cal., assignor to Victor Talking Machine Company. Holder for talking-machine records. No. 1,032,385; July 16; Gaz. vol. 180; p. 616.
Douglass, Napoleon B., Berkeley, Cal. Wall-bed. No. 1,044,760; Nov. 19; Gaz. vol. 184; p. 660.
Douglass, Roy, Pierceville, Kans. Knockdown crate. No. 1,041,755; Oct. 22; Gaz. vol. 183; p. 803.
Douglass, Winfield S., Glen Jean, W. Va. Identification-belt. No. 1,025,520; May 7; Sp. p. 925; Gaz. vol. 178; p. 144.
Dourte, George J., Longmont, Colo. Valveless pump. No. 1,034,592; Aug. 6; Gaz. vol. 181; p. 63.
Douthit, George O., Summers, Ark., assignor to M. M. McCoy, Westville, Okla. Lock-nut. No. 1,030,464; June 25; Sp. p. 5237; Gaz. vol. 179; p. 932.
Douthitt, James S., *et al.* (See Vargyas, Eugene von, assignor.)
Doutney, George, New York, N. Y. Automatic feed-bag. No. 1,022,183; Apr. 2; Sp. p. 913; Gaz. vol. 177; p. 146.
Dove, Alfred A., Los Angeles, Cal. Resilient driving mechanism for motor-cycles. No. 1,028,335; June 4; Sp. p. 587; Gaz. vol. 179; p. 88.
Dove, Julius, Yonkers, N. Y. Scenic apparatus. No. 1,036,586; Aug. 27; Gaz. vol. 181; p. 846.
Dover, Hannah M. (See Starn, George E., assignor.)
Dover Stamping & Manufacturing Company. (See Anderson, Pahr, assignor.)
Dow, Alexander, New York, N. Y. Rubber tire for vehicles. No. 1,024,189; Apr. 23; Sp. p. 5221; Gaz. vol. 177; p. 915.
Dow Chemical Company, The. (See Barstow, Edwin O., assignor.)
Dow Chemical Company, The. (See Jones and Schaefer, assignors.)
Dow, George B. N., and R. E. Walsh, Manchester, N. H. Sharpening implement. No. 1,016,615; Feb. 6; Sp. p. 888; Gaz. vol. 175; p. 132.
Dow, James L., Manhattan, Kans. Writing-desk. No. 1,013,868; Jan. 9; Sp. p. 1737; Gaz. vol. 174; p. 300.
Dow, James M., Everett, Mass. Method and apparatus for making stereotype-plates. No. 1,022,067; Apr. 2; Sp. p. 668; Gaz. vol. 177; p. 107.
Dow, John L., Melrose Highlands, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Forepart-form for shoe-turning machines. No. 1,022,660; Apr. 9; Sp. p. 1921; Gaz. vol. 177; p. 335.
Dow, John W., Mansfield, Ohio. Electroplating apparatus. No. 1,034,219; July 30; Gaz. vol. 180; p. 1302.
Dow, Robert P., Sr., Paris, Ky. Whip lock and socket. No. 1,045,380; Nov. 26; Gaz. vol. 184; p. 901.
Dow, Roy B., assignor to Cochran-Bly Company, Rochester, N. Y. Saw forming and sharpening machine. No. 1,040,905; Oct. 8; Gaz. vol. 183; p. 448.
Dow, Wallace H., Piedmont, Cal. Smelting-furnace. No. 1,032,745; July 16; Gaz. vol. 180; p. 739.
Dow, Willard E., Braintree, Mass. Ignition system for gas-engines. No. 1,030,288; June 25; Sp. p. 4847; Gaz. vol. 179; p. 867.
Dowd, Daniel, Portland, Oreg. Sash-lock. No. 1,037,219; Sept. 3; Gaz. vol. 182; p. 14.
Dowd, Daniel, Los Angeles, Cal. Stud for use in building construction. No. 1,037,738; Sept. 3; Gaz. vol. 182; p. 188.
Dowd, James, and P. T. Goggin, Whitman, Mass. Ash-sifter. No. 1,040,291; Oct. 8; Gaz. vol. 183; p. 238.
Dowd, John P. (See Terrill and Dowd.)
Dowd, John P., assignor to The Brown Hoisting Machinery Company, Cleveland, Ohio. Mechanism for operating cranes. No. 1,024,836; Apr. 30; Sp. p. 6670; Gaz. vol. 177; p. 1174.
Dowd Knife Works. (See Dowd, Robert I., assignor.)
Dowd, Robert I., Beloit, Wis. Composition for making grindstones. No. 1,045,531; Nov. 26; Gaz. vol. 184; p. 958.
Dowd, Robert I., assignor to Dowd Knife Works, Beloit, Wis. Beating-engine. No. 1,019,612; Mar. 5; Sp. p. 1346; Gaz. vol. 176; p. 204.
Dowden, John W., assignor of one-half to P. G. Gimnich, Reeves, La. Firearm. No. 1,024,190; Apr. 23; Sp. p. 5222; Gaz. vol. 177; p. 915.
Dowe, Arthur W., Camden, N. J., assignor to Miller Lock Co., Philadelphia, Pa. Padlock. No. 1,020,891; Mar. 19; Sp. p. 4008; Gaz. vol. 176; p. 699.
Dowell, Chester M., Huntingburg, Ind. Oil-indicator. No. 1,043,680; Nov. 5; Gaz. vol. 184; p. 225.
Dowell, George W., Jr., Athens, Tex. Cotton-chopper. No. 1,038,540; Sept. 17; Gaz. vol. 182; p. 527.
Dowell, Manley O. (See Read and Dowell.)
Dowling, North, Philadelphia, Pa. Portable flash-light apparatus. No. 1,032,048; July 9; Gaz. vol. 180; p. 456.
Dowling, North, Philadelphia, Pa. Flash-light squib. No. 1,043,811; Nov. 12; Gaz. vol. 184; p. 300.
Down, Ernest U., Bowling Green, Ohio. Trolley-wheel. No. 1,029,050; June 11; Sp. p. 2133; Gaz. vol. 179; p. 367.
Down, Ernest U., Bowling Green, Ohio. Trolley-pole stand. No. 1,046,154; Dec. 3; Gaz. vol. 185; p. 122.
Down, John V., Petersburg, Va. Safety-chamber for lamps. No. 1,042,656; Oct. 29; Gaz. vol. 183; p. 1140.
Down, William R., Reading, Pa. Drill. No. 1,027,039; May 21; Sp. p. 4335; Gaz. vol. 178; p. 735.
Downer, Taylor J., Colorado Springs, Colo. Centripetal electric switch. No. 1,032,471; July 16; Gaz. vol. 180; p. 645.
Downes, Louis W., Providence, R. I. Magnetic chuck. No. 1,036,976; Aug. 27; Gaz. vol. 181; p. 975.
Downes, Louis W., Providence, R. I. Multiple-unit chuck. No. 1,036,977; Aug. 27; Gaz. vol. 181; p. 975.
Downey, Alleen J., San Gabriel, Cal. Stamp-applying machine. No. 1,033,557; July 23; Gaz. vol. 180; p. 1049.
Downey, Richard F., assignor to Tailors' Form Company, Milwaukee, Wis. Method and apparatus for draping dummies from an uncut length of cloth. No. 1,024,927; Apr. 30; Sp. p. 6860; Gaz. vol. 177; p. 1205.
Downey, Richard F., assignor to Sanitary Service Company, Milwaukee, Wis. Sanitary soap and towel dispenser. No. 1,041,710; Oct. 15; Gaz. vol. 183; p. 752.
Downey, William H. J., Wilmington, Del. Combination tobacco-box. No. 1,043,078; Nov. 5; Gaz. vol. 184; p. 10.
Downie, William, Detroit, Mich. Receptacle. No. 1,032,472; July 16; Gaz. vol. 180; p. 645.
Downing, Ira S., Collinwood, Ohio. Car-brake rigging. No. 1,027,379; May 21; Sp. p. 5051; Gaz. vol. 178; p. 850.
Downing, John H., Stillwater, Minn., assignor to the State of Minnesota. Pitman connection for harvesting-machines. No. 1,029,533; June 11; Sp. p. 3163; Gaz. vol. 179; p. 531.
Downing, John H., Stillwater, Minn., assignor to the State of Minnesota. Harvester-truck. No. 1,029,534; June 11; Sp. p. 3165; Gaz. vol. 179; p. 531.
Downing, John H., Stillwater, Minn., assignor to State of Minnesota. Harvester. No. 1,030,652; June 25; Sp. p. 5840; Gaz. vol. 179; p. 1000.
Downing, John H., Stillwater, Minn., assignor to State of Minnesota. Grain-divider for harvesters. No. 1,033,088; July 23; Gaz. vol. 180; p. 891.
Downing, William C., Chicago, Ill. Numbering-machine. No. 1,046,155; Dec. 3; Gaz. vol. 185; p. 123.
Downingtown Manufacturing Company. (See Miller, Guyon, assignor.)
Downs, Fred L., Gillum, Ill. Combined tie and track-fastening. No. 1,018,305; Feb. 20; Sp. p. 4578; Gaz. vol. 175; p. 786.
Downs, James W., Alameda, Cal. Window-ventilator. No. 1,020,970; Mar. 26; Sp. p. 4185; Gaz. vol. 176; p. 778.
Downs, John, London, England. Fog-signal. No. 1,047,180; Dec. 17; Gaz. vol. 185; p. 547.
Downs, John H., New York, N. Y. Wire fence. No. 1,023,509; Apr. 16; Sp. p. 3733; Gaz. vol. 177; p. 661.
Downs, Samuel T., Irvington, Ind., assignor to H. Mueller Manufacturing Company, Decatur, Ill. Service-box key. No. 1,018,172; Feb. 20; Sp. p. 4316; Gaz. vol. 175; p. 741.
Downs, William R. (See Allen, Ernest J., assignor.)
Downward, Thomas H., Philadelphia, Pa. Water-power system. No. 1,048,664; Dec. 31; Gaz. vol. 185; p. 1128.
Doxford, Arthur, Sunderland, England. Apparatus for opening out multiple-wire cable or the like applicable to the formation of blocks on such cable. No. 1,039,368; Sept. 24; Gaz. vol. 182; p. 829.
Doyle, Adolphus M., Leoti, Kans. Farm-gate. No. 1,047,925; Dec. 24; Gaz. vol. 185; p. 840.
Doyle, Ashton H., Johnson City, Tenn. Coat-hanger. No. 1,030,253; June 18; Sp. p. 4742; Gaz. vol. 179; p. 816.
Doyle, Bernard S., and A. S. Patton, Lebam, Wash. Water-motor. No. 1,036,587; Aug. 27; Gaz. vol. 181; p. 847.
Doyle, Edward P. (See Merwin and Doyle.)
Doyle, James, assignor of one-twelfth to D. L. Peller, one-twelfth to J. Moore, and one-twelfth to A. Jenkins, Pittsburgh, Pa. Automatic serving system. No. 1,019,137; Mar. 5; Sp. p. 290; Gaz. vol. 176; p. 45.
Doyle, James E., assignor of one-half to C. S. Britton, Cleveland, Ohio. Printing-press appliance. No. 1,043,812; Nov. 12; Gaz. vol. 184; p. 300.
Doyle, James S. (See Hedley and Doyle.)
Doyle, Percival F. (See Mackie and Doyle.)
Dozier, James H., assignor of one-half to D. A. Lawson, St. Petersburg, Fla. Belt-fastener. No. 1,042,206; Oct. 22; Gaz. vol. 183; p. 956.

Alphabetical list of patentees—Continued.

Dr. Walther Wolff and Company, Gesellschaft mit beschrankter Haftung. (See Zuckmayer, Fritz, assignor.)
Dräger, Alexander B. (See Schröder and Dräger.)
Dräger, Alexander B., assignor to Drägerwerk Heinr. & Bernh. Dräger, Lübeck, Germany. Universal coupling. No. 1,033,681; July 23; Gaz. vol. 180; p. 1088.
Drager, Frederick A., Flint, Mich. Saw-set. No. 1,034,593; Aug. 6; Gaz. vol. 181; p. 63.
Drager, Herman J., Orlando, Okla. Binder-truck. No. 1,034,986; Aug. 6; Gaz. vol. 181; p. 195.
Dräger, Johann H. (See Schröder and Dräger.)
Dräger, Johann H., Lübeck, Germany. Causing artifical respiration. No. 1,044,031; Nov. 12; Gaz. vol. 184; p. 377.
Drägerwerk Heinr. & Bernh. Dräger. (See Dräger, Alexander B., assignor.)
Drägerwerk, Heinr. & Bernh. Dräger. (See Schröder and Dräger, assignors.)
Dragon, Louis, Duvernay, Alberta, Canada. Wagon-tongue steadier. No. 1,044,505; Nov. 19; Gaz. vol. 184; p. 568.
Drahtpapier G. m. b. H. (See Gueffroy, Hermann, assignor.)
Drake, Alphonso G., Washington, D. C. Core for constructing hollow concrete walls. No. 1,045,824; Dec. 3; Gaz. vol. 185; p. 10.
Drake, Arthur J., and J. M. Hewitt, assignors to The Saver Clutch Company Limited, Manchester, England. Gearing. No. 1,041,047; Oct. 15; Gaz. vol. 183; p. 530.
Drake, Augustus W. (See Ravert, William I., assignor.)
Drake, Augustus W., and W. I. Ravert, Lattimer Mines, Pa.; said Ravert assignor to said Drake. Drilling-machine. No. 1,035,428; Aug. 13; Gaz. vol. 181; p. 378.
Drake, Ellis, Stoughton, Mass. Sewing-machine. No. 1,042,537; Oct. 29; Gaz. vol. 183; p. 1097.
Drake, Fred H., Oakland, Cal. Capsule. No. 1,046,056; Dec. 3; Gaz. vol. 185; p. 88.
Drake, Frederick A., Newark, assignor of one-half to L. H. Wills, West Orange, N. J. Presser-foot-operating device for sewing-machines. No. 1,033,997; July 30; Gaz. vol. 180; p. 1225.
Drake, Herbert L., Medford, assignor of forty-five one-hundredths to G. E. Foster, Mellen, Wis. Bark-removing machine. No. 1,017,655; Feb. 20; Sp. p. 3100; Gaz. vol. 175; p. 560.
Drake, William, *et al.* (See Morral, John, assignor.)
Drake, William T. (See Turner, Drake, and Little.)
Draper, Clare H., assignor to C. F. Roper & Company, Hopedale, Mass. Screw-propeller. No. 1,019,437; Mar. 5; Sp. p. 1002; Gaz. vol. 176; p. 147.
Draper Company. (See Bracken, Howard W., assignor.)
Draper Company. (See Burbank, Louis S., assignor.)
Draper Company. (See Claus, Joseph A., assignor.)
Draper Company. (See Coburn, George A., assignor.)
Draper Company. (See Cunniff, Edward A., assignor.)
Draper Company. (See Eubanks and McBroom, assignors.)
Draper Company. (See Hollins, Denis M., assignor.)
Draper Company. (See Hunt, Patrick, assignor.)
Draper Company (See Jamieson, Robert, assignor.)
Draper Company. (See Lussier, Henry, assignor.)
Draper Company. (See McCaslin, William, assignor.)
Draper Company. (See Megginson, Cabell W., assignor.)
Draper Company. (See Northrop, Jonas, assignor.)
Draper Company. (See Owen, Herbert W., assignor.)
Draper Company. (See Owen and Welcome, assignors.)
Draper Company. (See Rainville, Victor, assignor.)
Draper Company. (See Rhoades, Alonzo E., assignor.)
Draper Company. (See Spencer, William H., assignor.)
Draper Company. (See Stansfield, Charles, assignor.)
Draper Company. (See Stimpson, Edward S., assignor.)
Draper Company. (See Stimpson and Rhoades, assignors.)
Draper Company. (See Tolman, Andrew L., assignor.)
Draper Company. (See Walmsley, William, assignor.)
Draper, Francis W., assignor to Starr Piano Company, Richmond, Ind. Pneumatic player mechanism. No. 1,016,917; Feb. 6; Sp. p. 1509; Gaz. vol. 175; p. 234.
Draper, Francis W., assignor to The Starr Piano Company, Richmond, Ind. Selector for automatic players. No. 1,021,305; Mar. 26; Sp. p. 4878; Gaz. vol. 176; p. 891.
Draper, Louis W., Chicago, Ill. Box. No. 1,025,253; May 7; Sp. p. 322; Gaz. vol. 178; p. 52.
Draper & Maynard Company, The. (See Burtt, Charles C., assignor.)
Draper, Walter E. (See Bigelow, John K., assignor.)
Draullette, Edmond, Paris, France. Variable differential speed-gear. No. 1,015,481; Jan. 23; Sp. p. 5291; Gaz. vol. 174; p. 907.
Draullette, Edmond, Paris, France. Variable-speed device. No. 1,031,988; July 9; Gaz. vol. 180; p. 436.
Draver, Emil R., Richmond, Ind. Speedometer-drive for automobiles. No. 1,035,169; Aug. 13; Gaz. vol. 181; p. 287.
Drechsler, John A., Hillsdale, Mich. Shoe-retainer. No. 1,018,652; Feb. 27; Sp. p. 5403; Gaz. vol. 175; p. 936.
Dreden, Ernest F. von, and H. R. Hofmann, New York, N. Y. Flying-machine. No. 1,043,079; Nov. 5; Gaz. vol. 184; p. 10.
Dreger, Karl von, Berlin, assignor to Gesellschaft für Verwertung Technischer Patente mit beschränker Haftung, Bremen, Germany. Electric-arc lamp. No. 1,026,568; May 14; Sp. p. 3237; Gaz. vol. 178; p. 535.
Dreger, Karl von, Berlin, assignor to Gesellschaft für Verwertung Technischer Patente mit beschränkter Haftung, Bremen, Germany. Electric-arc lamp. No. 1,026,569; May 14; Sp. p. 3238; Gaz. vol. 178; p. 535.
Dreger, Karl von, Berlin, assignor to Gesellschaft für Verwertung technischer Patente mit beschränkter Haftung, Bremen, Germany. Arc-lamp. No. 1,034,594; Aug. 6; Gaz. vol. 181; p. 64.
Dreger, Oscar, Huntsville, Ala. Nut-lock. No. 1,037,739; Sept. 3; Gaz. vol. 182; p. 188.
Dreher, Phillip J., Toledo, Ohio. Type-writing machine. No. 1,028,556; June 4; Sp. p. 1073; Gaz. vol. 179; p. 163.
Dreher, Phillip J., Toledo, Ohio. Sheet-perforating machine. No. 1,028,557; June 4; Sp. p. 1078; Gaz. vol. 179; p. 164.
Dreher, Phillip J., Toledo, Ohio. Line-spacing mechanism for type-writers. No. 1,028,845; June 4; Sp. p. 1668; Gaz. vol. 179; p. 260.
Dreher, Phillip J., Toledo, Ohio. Belt slackening and tightening device. No. 1,035,327; Aug. 13; Gaz. vol. 181; p. 342.
Dreher, Phillip J., Toledo, Ohio. Striking mechanism for type-writers. No. 1,043,410; Nov. 5; Gaz. vol. 184; p. 130.
Dreier, Dominick, Springdale, Mont. Rotary pump. No. 1,019,613; Mar. 5; Sp. p. 1347; Gaz. vol. 176; p. 204.
Dreisbach, Charles A., New Haven, Conn. Variable-speed transmission mechanism. No. 1,046,156; Dec. 3; Gaz. vol. 185; p. 123.
Dreisbach, Edwin J., Whitneyville, Conn. Frame. No. 1,044,634; Nov. 19; Gaz. vol. 184; p. 614.
Dremel, Albert J., Milwaukee, Wis. Artificial fish-bait. No. 1,017,088; Feb. 13; Sp. p. 1927; Gaz. vol. 175; p. 331.
Dremel, Albert J., Racine, Wis. Rotary cultivator. No. 1,041,980; Oct. 22; Gaz. vol. 183; p. 881.
Drenner, George, Polo, Ill. Adjustable and reversible measuring and gaining machine. No. 1,035,328; Aug. 13; Gaz. vol. 181; p. 343.
Dreses, Henry, Cincinnati, Ohio. Stop mechanism for turret-lathes. No. 1,017,859; Feb. 20; Sp. p. 3596; Gaz. vol. 175; p. 630.
Dress, George W., and C. F. Beck, Steelton, Pa. T-rail. No. 1,034,428; Aug. 6; Gaz. vol. 181; p. 10.
Dressel, Charles P., assignor of two-thirds to A. Morgan and I. W. Mendelsohn, Wilkes-Barre, Pa. Gas cut-off. No. 1,026,570; May 14; Sp. p. 3239; Gaz. vol. 178; p. 535.
Dressel Railway Lamp Works, The. (See Ekiund, Gustav, assignor.)
Dresser, Charles A., assignor to The Goss Printing Press Company, Chicago, Ill. Electric control mechanism for driving mechanism. No. 1,046,057; Dec. 3; Gaz. vol. 185; p. 88.
Dresser, Daniel L., Newport, R. I., assignor to The Dresser Generator Company, Inc., New York, N. Y. Generation of heat and motive power. No. 1,049,213; Dec. 31; Gaz. vol. 185; p. 1315.
Dresser Generator Company, The. (See Dresser, Daniel L., assignor.)
Dressler, Conrad, Earl's Court, London, England. Oven for use in the manufacture of tiles, pottery, and the like. No. 1,023,628; Apr. 16; Sp. p. 3985; Gaz. vol. 177; p. 700.
Drew, Albert E., J. Arkinstall, and W. Dean, Bolton, England. Apparatus and means for spinning, doubling, and forming cops. No. 1,030,261; June 18; Sp. p. 4761; Gaz. vol. 179; p. 820.
Drew, Albert E., J. Arkinstall, W. Dean, and J. H. Howarth, Bolton, England. Spinning and doubling frame. No. 1,025,254; May 7; Sp. p. 323; Gaz. vol. 178; p. 52.
Drew, George W. (See Byrne, Charles, assignor.)
Drew, Herbert H., Waterloo, Wis. Elevated-carrier stop. No. 1,017,393; Feb. 13; Sp. p. 2572; Gaz. vol. 175; p. 435.
Drew, John E., Jersey City, N. J., assignor to Durham Duplex Razor Company, New York, N. Y. Machine for polishing razor-blades. No. 1,046,157; Dec. 3; Gaz. vol. 185; p. 123.
Drew, Samuel J. (See Hess and Burdick, assignors.)
Drew, Theodore, Basom, N. Y. Horseshoe. No. 1,041,450; Oct. 15; Gaz. vol. 183; p. 666.
Drewell, Heinrich, Charlottenberg, assignor to Schnellsetz-Maschinengesellschaft mit beschränkter Haftung, Berlin, Germany. Type-setting device. No. 1,026,243; May 14; Sp. p. 2547; Gaz. vol. 178; p. 427.
Drewell, Heinrich, Charlottenburg, assignor to Schnellsetzmaschinengesellschaft mit beschränkter Haftung, Berlin, Germany. Line-casting machine. No. 1,027,826; May 28; Sp. p. 5976; Gaz. vol. 178; p. 1037.
Drewell, Heinrich, assignor to Schnellsetzmaschinengesellschaft mit beschränkter Haftung, Charlottenburg, Germany. Line-casting machine. No. 1,034,089; July 30; Gaz. vol. 180; p. 1257.

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Drewett, William A., New York, assignor of one-half to M. T. Davidson Company, Brooklyn, N. Y. Pump. No. 1,035,170; Aug. 13; Gaz. vol. 181; p. 287.
Drexler, Max, assignor to L. F. Bergdolt, Munich, Germany. Toy. No. 1,043,514; Nov. 5; Gaz. vol. 184; p. 169.
Drey, Wilfred J., Catawissa, Pa., assignor to United Shoe Machinery Company, Paterson, N. J. Making welt-shoes. No. 1,023,555; Apr. 16; Sp. p. 3822; Gaz. vol. 177; p. 675.
Dreyer, Oscar W., Kansas City, Mo. Holder for sharpening gravers. No. 1,034,595; Aug. 6; Gaz. vol. 181; p. 64.
Driesbach, Frank K. (See Lanier and Driesbach.) (Reissue.)
Dring, Thomas A., Trowbridge, England. Flying-machine. No. 1,034,429; Aug. 6; Gaz. vol. 181; p. 11.
Dring, Thomas A., Trowbridge, England. Flying-machine. No. 1,034,430; Aug. 6; Gaz. vol. 181; p. 11.
Dringman, Emil, Fiaong, Philippine Islands. Hemp-stripping machine. No. 1,046,281; Dec. 3; Gaz. vol. 185; p. 168.
Driscoll, Charles S., Coulter, Pa. Elevator. No. 1,032,819; July 16; Gaz. vol. 180; p. 764.
Driscoll, Con, assignor to F. Prevost, Coalinga, Cal. Making a food compound. No. 1,028,005; May 28; Sp. p. 6397; Gaz. vol. 178; p. 1097.
Drish, Frank W., assignor of one-half to J. R. Pogue, Sullivan, Ill. Lace-rod bracket. No. 1,035,329; Aug. 13; Gaz. vol. 181; p. 343.
Driver, Charles B., Dinuba, Cal. Thrips-catching machine. No. 1,031,172; July 2; Gaz. vol. 180; p. 115.
Driver, Charles H., Racine, Wis. Combined tool rack and gage. No. 1,025,255; May 7; Sp. p. 324; Gaz. vol. 178; p. 52.
Driver, Charles H., Racine, Wis. Swinging-fixture mounting. No. 1,028,864; June 11; Sp. p. 1717; Gaz. vol. 179; p. 301.
Drobinski, Francis J., New York, N. Y., assignor to Revere Rubber Company, Chelsea, Mass. Ventilating-cushion for footwear. No. 1,029,110; June 11; Sp. p. 2262; Gaz. vol. 179; p. 386.
Drobniak, Franz. (See Planecki and Drobniak.)
Droegemeier, Ernest O., Ellsworth, Kans. Elevator-hood. No. 1,020,542; Mar. 19; Sp. p. 3253; Gaz. vol. 176; p. 582.
Drohan, Thomas E., Schenectady, N. Y. Pillow. No. 1,023,629; Apr. 16; Sp. p. 3989; Gaz. vol. 177; p. 700.
Droitcour, Michael A., Oak Park, assignor to Miehle Printing Press and Manufacturing Company, Chicago, Ill. Bed-motion for printing-presses. No. 1,032,126; July 9; Gaz. vol. 180; p. 481.
Dronia, Robert, assignor of one-half to J. Stumpf, New York, N. Y. Barrel-heater. No. 1,037,137; Aug. 27; Gaz. vol. 181; p. 1029.
Dronsfield, Albert J., Providence, R. I. Pressure-controlling device. No. 1,020,641; Mar. 19; Sp. p. 3482; Gaz. vol. 176; p. 615.
Drost, Theodor, Hamburg, Germany. Controlling apparatus for cab-stands. No. 1,044,151; Nov. 12; Gaz. vol. 184; p. 417.
Droste, George A., Seattle, Wash. Apparatus for games. No. 1,039,500; Sept. 24; Gaz. vol. 182; p. 875.
Drown, Frank E., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Sole-holding device. No. 1,020,135; Mar. 12; Sp. p. 2404; Gaz. vol. 176; p. 410.
Drubel, Gustav. (See Beausejour and Drubel.)
Druckenmüller, Franz. (See Lange and Druckenmüller.)
Drucker, Harry N., Cincinnati, Ohio. Wardrobe-trunk. No. 1,024,125; Apr. 23; Sp. p. 5073; Gaz. vol. 177; p. 893.
Drugan, Samuel, and J. Schoenthaler, assignors to Cochran, Drugan & Co., Trenton, N. J. Flush-tank cover. No. 1,030,059; June 18; Sp. p. 4348; Gaz. vol. 179; p. 750.
Drugan, William J., Portsmouth, Ohio. Hydraulic jack. No. 1,047,007; Dec. 10; Gaz. vol. 185; p. 457.
Drugmand, L. A., *et al.* (See Griffin, John, assignor.)
Drukman, Isaac. (See Eisenberg, Rubin, assignor.)
Drum, Joseph D., assignor to Electric Renovator Manufacturing Company, Pittsburgh, Pa. Cleaning-tool. No. 1,036,978; Aug. 27; Gaz. vol. 181; p. 976.
Drummond, Arthur W., and A. D. Davenport, Gustine, Cal. Spring-wheel. No. 1,034,220; July 30; Gaz. vol. 180; p. 1303.
Drummond Atmospheric Pump Company. (See Drummond, William H., assignor.)
Drummond, David D., Oglesby, Ill. Screw conveyer. No. 1,019,438; Mar. 5; Sp. p. 1005; Gaz. vol. 176; p. 147.
Drummond, Franz S., Blaine, Wash. Gas-controller and safety-valve. No. 1,021,581; Mar. 26; Sp. p. 5489; Gaz. vol. 176; p. 986.
Drummond, Fredrick A., London, Ontario, Canada. Extension-ladder. No. 1,044,152; Nov. 12; Gaz. vol. 184; p. 417.
Drummond, William D., Pawtucket, R. I. Garbage-receptacle. No. 1,045,004; Nov. 19; Gaz. vol. 184; p. 743.
Drummond, William H., assignor to Drummond Atmospheric Pump Company, Denver, Colo. Apparatus for producing power. No. 1,041,253; Oct. 15; Gaz. vol. 183; p. 600.
Drummond, William J., Philadelphia, Pa. Burial-box. No. 1,024,471; Apr. 23; Sp. p. 5810; Gaz. vol. 177; p. 1010.
Drury, Archie, Elgin, Kans. Heading device for Kafir corn and the like. No. 1,028,690; June 4; Sp. p. 1337; Gaz. vol. 179; p. 207.
Drury, Clarence H., assignor of one-half to J. C. Stephan, Jr., Evansville, Ind. Abrasive-belt machine. No. 1,049,214; Dec. 31; Gaz. vol. 185; p. 1316.
Drury, George P., *et al.* (See Drury, William H., assignor.)
Drury, William C. (See Drury, William H., assignor.)
Drury, William H., assignor to W. C. Drury, Waltham, Mass. Leather yarn and leather-yarn fabric. No. 1,014,623; Jan. 9; Sp. p. 3364; Gaz. vol. 174; p. 557.
Drury, William H., assignor to J. S. Stearns and G. P. Drury, Waltham, Mass. Lubricating-packing. No. 1,015,727; Jan. 23; Sp. p. 5809; Gaz. vol. 174; p. 991.
Druschel, Henry, Manheim, Pa. Friction-clutch. No. 1,021,972; Apr. 2; Sp. p. 480; Gaz. vol. 177; p. 76.
Druseidt, Paul, Remscheid, Germany. Electric switch. No. 1,034,596; Aug. 6; Gaz. vol. 181; p. 64.
Dryfoos, Alphons, New York, N. Y. Non-refillable bottle. No. 1,029,348; June 11; Sp. p. 2782; Gaz. vol. 179; p. 469.
Dryfoos, Nathan I., Cleveland, Ohio. Soldering-iron. No. 1,021,971; Mar. 26; Sp. p. 4186; Gaz. vol. 176; p. 778.
Drzymalla, Theodor, Magdeburg, Germany. Two-roll drying apparatus for pulp-like paste. No. 1,014,956; Jan. 16; Sp. p. 4173; Gaz. vol. 174; p. 702.
Du Bois, Frederick N., New York, N. Y. Method of and means for protecting the bores of heavy guns from erosion. No. 1,044,360; Nov. 12; Gaz. vol. 184; p. 489.
Du Breuil, Allan L., Chicago, Ill. Carrying attachment for motor-cycles. No. 1,044,867; Nov. 19; Gaz. vol. 184; p. 695.
Du Brul, Davila S. (See Du Brul, Napoleon and D. S.)
Du Brul, Davila S., assignor to The Miller, Du Brul & Peters Mfg. Co., Cincinnati, Ohio. Cigar-cutter. No. 1,014,576; Jan. 9; Sp. p. 3239; Gaz. vol. 174; p. 539.
Du Brul, Napoleon. (See Miller, Frederick C., assignor.)
Du Brul, Napoleon, Cincinnati, Ohio. Tobacco-cutting machine. No. 1,015,428; Jan. 23; Sp. p. 5166; Gaz. vol. 174; p. 888.
Du Brul, Napoleon, Cincinnati, Ohio. Continuous cigarette-machine. No. 1,040,653; Oct. 8; Gaz. vol. 183; p. 367.
Du Brul, Napoleon and D. S., Cincinnati, Ohio. Variable-speed pulley. No. 1,015,427; Jan. 23; Sp. p. 5164; Gaz. vol. 174; p. 887.
Du Mouchel, Samuel W., Kalamazoo, Mich. Combination-tool. No 1,015,877; Jan. 30; Sp. p. 6125; Gaz. vol. 174; p. 1069.
Du Pont, Eleuthere P., Montchanin, Del. Rotary valve for internal-combustion engines. No. 1,038,319; Sept. 10; Gaz. vol. 182; p. 416.
Du Pont, Eugene C. (See Dilks, Reyam, and Du Pont.)
Du Pont, Francis I., Wilmington, Del. Liquid ore separation. No. 1,014,624; Jan. 9; Sp. p. 3367; Gaz. vol. 174; p. 557.
Du Pont, Francis I., Wilmington, Del. Explosive projectile. No. 1,015,943; Jan. 30; Sp. p. 6270; Gaz. vol. 174; p. 1091.
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Du Pont, Francis I., Wilmington, Del. Explosive projectile. No. 1,015,945; Jan. 30; Sp. p. 6274; Gaz. vol. 174; p. 1092.
Du Pont, Francis I., assignor to The E. I. du Pont de Nemours Powder Company, Wilmington, Del. Apparatus for treating explosive powder. No. 1,017,286; Feb. 13; Sp. p. 2342; Gaz. vol. 175; p. 399.
Du Pont, Francis I., assignor to The E. I. du Pont de Nemours Powder Company, Wilmington, Del. Removal of acids from nitrocellulose and centrifugal machine therefor. No. 1,024,624; Apr. 30; Sp. p. 6227; Gaz. vol. 177; p. 1098.
Du Roth, John, Johnstown, Pa. Truck. No. 1,015,152; Jan. 16; Sp. p. 4559; Gaz. vol. 174; p. 768.
Du Val, Dibrell L., Little Rock, Ark. Combined trace-eye protector and spacing-strip. No. 1,032,473; July 16; Gaz. vol. 180; p. 645.
Du Val, James E., assignor of one-half to E. A. Lee, Bowie, Tex. Electric switch. No. 1,013,990; Jan. 9; Sp. p. 2016; Gaz. vol. 174; p. 341.
Duba, Arthur A., Waterloo, Iowa. Apparatus for making toe-calks. No. 1,047,008; Dec. 10; Gaz. vol. 185; p. 457.
Dubay, Arthur, Gardiner, Me. Teething-finger. No. 1,023,822; Apr. 23; Sp. p. 4363; Gaz. vol. 177; p. 788.
Dubbs, Harry, Fredericksburg, Pa. Skirt-holder. No. 1,049,062; Dec. 31; Gaz. vol. 185; p. 1265.
Dubé, Alfred, Edmonton, Alberta, Canada. Tongue-lock. No. 1,022,932; Apr. 9; Sp. p. 2519; Gaz. vol. 177; p. 429.

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Dubied, Edouard, assignor to E. Dubied & Cie., Couvet, Switzerland. Flat-bed knitting-machine. No. 1,015,668; Jan. 23; Sp. p. 5683; Gaz. vol. 174; p. 971.
Dubied, Edouard, assignor to Edouard Dubied & Cie., Couvet, Switzerland. Knitting-machine. No. 1,029,494; June 11; Sp. p. 3089; Gaz. vol. 179; p. 518.
Dubilier, William, Seattle, Wash. High-frequency apparatus. No. 1,023,135; Apr. 16; Sp. p. 2985; Gaz. vol. 177; p. 537.
Dubinski, Benjamin, assignor to Standard Lighters Manufacturing Co., New York, N. Y. Pocket-lighter. No. 1,026,571; May 14; Sp. p. 3241; Gaz. vol. 178; p. 536.
Dubish, Mike. (See Wajda, Floryan, assignor.)
Dubosc, Olivier L. A., A. D. Luttringer, and H. Denis, assignors to Société Le Camphre, Paris, France. Manufacture of formates. No. 1,019,230; Mar. 5; Sp. p. 489; Gaz. vol. 176; p. 78.
Duboux, Alois, Grandvaux, and C. H. Rapin, Lalex, near Grandvaux, Switzerland. Chemical product for preserving eggs. No. 1,019,614; Mar. 5; Sp. p. 1349; Gaz. vol. 176; p. 205.
Dubsky, Arthur, Vienna, Austria-Hungary. Pyrophoric pocket-lighter. No. 1,015,876; Jan. 30; Sp. p. 6123; Gaz. vol. 174; p. 1068.
Ducasse, Francois. (See Richard, Charles D., assignor.)
Ducassou, Joseph G., assignor to Société G. Ducassou & Compagnie, Paris, France. Propelling mechanism for boats. No. 1,034,987; Aug. 6; Gaz. vol. 181; p. 196.
Duchemin, Peter R., Spokane, Wash. Attachment for carpenters' braces. No. 1,031,540; July 2; Gaz. vol. 180; p. 239.
Düchting, Wilhelm, Berlin, assignor to P. Rath, Krakau, Germany. Stabilizing device for flying-machines. No. 1,028,336; June 4; Sp. p. 588; Gaz. vol. 179; p. 88.
Ducker, Orlando, Washington, D. C. Starting mechanism for explosive-engines. No. 1,015,482; Jan. 23; Sp. p. 5293; Gaz. vol. 174; p. 907.
Ducker, Orlando, Washington, D. C. Explosive-engine. No. 1,038,541; Sept. 17; Gaz. vol. 182; p. 528.
Ducker, Orlando, Washington, D. C., assignor of one-fourth to F. E. Lykes, Tampa, Fla. Carbureter. No. 1,014,133; Jan. 9; Sp. p. 2329; Gaz. vol. 174; p. 389.
Ducker, William M., Brooklyn, N. Y. Sash-holding device. No. 1,031,429; July 2; Gaz. vol. 180; p. 204.
Duckham, Arthur M. (See Woodall and Duckham.)
Duckham, Arthur M., county of Surrey, England. Vertical retort for the carbonization of coal or the like. No. 1,037,822; Sept. 3; Gaz. vol. 182; p. 215.
Duckworth, Oscar H., Summerfield, Kans. Resilient tire. No. 1,030,984; July 2; Gaz. vol. 180; p. 47.
Ducsay, Istvan, Canonsburg, Pa. Lock. No. 1,027,325; May 21; Sp. p. 4942; Gaz. vol. 178; p. 831.
Ducsay, Steve, Cannonsburg, Pa. Latch. No. 1,022,831; Apr. 9; Sp. p. 2315; Gaz. vol. 177; p. 395.
Dudek, John L. (See Adams and Dudek.)
Dudley, Chester W., Boston, Mass. Clothes-rack. No. 1,031,989; July 9; Gaz. vol. 180; p. 437.
Dudley, Dana, Wakefield, Mass. Lamp-chimney holder. No. 1,020,543; Mar. 19; Sp. p. 3253; Gaz. vol. 176; p. 582.
Dudley, George W., Staunton, Va. Recording and adding machine. No. 1,019,231; Mar. 5; Sp. p. 490; Gaz. vol. 176; p. 78.
Dudley, Sumner A., Taunton, Mass. Shuttle. No. 1,041,607; Oct. 15; Gaz. vol. 183; p. 715.
Dudley, William W., assignor to Hamilton Watch Company, Lancaster, Pa. Center wheel for watches. No. 1,037,740; Sept. 3; Gaz. vol. 182; p. 188.
Dudley, William W., assignor to Hamilton Watch Company, Lancaster, Pa. Balance-cock. No. 1,037,741; Sept. 3; Gaz. vol. 182; p. 188.
Dudley, William W., assignor to Hamilton Watch Company, Lancaster, Pa. Hair-spring-stud-holding means No. 1,037,742; Sept. 3; Gaz. vol. 182; p. 189.
Duell, William S., assignor to Klauder-Weldon Dyeing Machine Company, Amsterdam, N. Y. Dyeing-machine. No. 1,040,654; Oct. 8; Gaz. vol. 183; p. 367.
Duell, William S., assignor to Klauder-Weldon Dyeing Machine Company, Amsterdam, N. Y. Drying apparatus. No. 1,046,058; Dec. 3; Gaz. vol. 185; p. 89.
Duemer, Louis, Hamilton, Ohio. Furnace. No. 1,023,136; Apr. 16; Sp. p. 2987; Gaz. vol. 177; p. 537.
Duensing, Henry C., Chicago Heights, Ill. Distilling apparatus. No. 1,043,305; Nov. 5; Gaz. vol. 184; p. 93.
Duensser, George, Guttenberg, N. J. Covering or recovering surfaces. No. 1,037,743; Sept. 3; Gaz. vol. 182; p. 189.
Duerrenberger, Frederick, Paterson, N. J. Loom. No. 1,041,254; Oct. 15; Gaz. vol. 183; p. 601.
Dueweke, Alexander, Detroit, Mich. Car-seal. No. 1,039,663; Sept. 24; Gaz. vol. 182; p. 932.
Dufault, Oliver J., Spencer, Mass. Saw. No. 1,036,810; Aug. 27; Gaz. vol. 181; p. 920.
Duff, Alfred B., Pittsburgh, Pa. Blower for gas-producers. No. 1,022,388; Apr. 2; Sp. p. 1318; Gaz. vol. 177; p. 214.
Duff Manufacturing Company, The. (See Freed, George F., assignor.)
Duff Manufacturing Company, The. (See Kurtz, Lloyd E., assignor.)
Duff Manufacturing Company, The. (See McGinley, Thomas A., assignor.)
Duff Manufacturing Company, The. (See Oslund, Charles H., assignor.)
Duff, R. C., *et al.* (See Schulz, Wilhelm, assignor.)
Duff, Ralph A. (See Moore, Harry W., assignor.)
Duff, Samuel E., Bellevue, Pa. Rail-fastening. No. 1,048,665; Dec. 31; Gaz. vol. 185; p. 1128.
Duffie, George M., and W. A. Preston, Detroit, Mich. Centrifugal separator. No. 1,038,731; Sept. 17; Gaz. vol. 182; p. 594.
Duffie, John J., *et al.* (See Clark, Harry B., assignor.)
Duffie, John J., San Francisco, Cal. Vacuum-cleaner. No. 1,021,667; Mar. 26; Sp. p. 5635; Gaz. vol. 176; p. 1014.
Duffield, Martha J., Woodbury, N. J. Sad-iron heater. No. 1,023,137; Apr. 16; Sp. p. 2988; Gaz. vol. 177; p. 538.
Duffin, George S., Hoopeston, Ill. Draft-equalizer. No. 1,040,174; Oct. 1; Gaz. vol. 183; p. 169.
Duffy, Charles G., and J. R. Whited, Stonega, Va.; said Whited assignor to said Duffy. Car-step. No. 1,043,215; Nov. 5; Gaz. vol. 184; p. 61.
Duffy, James W., Chicago, Ill., assignor to The Fuller Manufacturing Company, New Haven, Conn. Table-operating device for paper-feeding mechanism. No. 1,037,220; Sept. 3; Gaz. vol. 182; p. 14.
Duffy, Patrick S., Barre, Vt. Spoke-socket. No. 1,026,572; May 14; Sp. p. 3243; Gaz. vol. 178; p. 536.
Duffy, Peter, assignor to The Schubert Piano Company, New York, N. Y. Sheet-guiding mechanism. No. 1,035,171; Aug. 13; Gaz. vol. 181; p. 288.
Dufwa, Frederick W., Mexico, Mexico. Bottle and stopper. No. 1,020,808; Mar. 19; Sp. p. 3835; Gaz. vol. 176; p. 672.
Dugan, Thomas, Larned, Kans. Threshing-machine. No. 1,032,127; July 9; Gaz. vol. 180; p. 481.
Dugan, Thomas J., Cleveland, Ohio. Kiln. No. 1,033,162; July 23; Gaz. vol. 180; p. 917.
Dugar, Delano H., Milwaukee, Wis. Expansion-reamer. No. 1,033,998; July 30; Gaz. vol. 180; p. 1225.
Duggan, William, Jr., Dunedin, New Zealand. Door-closing apparatus. No. 1,026,155; May 14; Sp. p. 2348; Gaz. vol. 178; p. 396.
Duhem, Victor L., Oakland, Cal., assignor to American Vimograph Company. Moving-picture camera and projection-machine. No. 1,039,501; Sept. 24; Gaz. vol. 182; p. 876.
Duhl, Daniel, Wellston, Ohio. Bow-facing oar. No. 1,034,431; Aug. 6; Gaz. vol. 181; p. 11.
Duhring, Joseph B., Chestnut Hill, Pa. Tire-mail. No. 1,046,451; Dec. 10; Gaz. vol. 185; p. 265.
Duis, Albert. (See Duis, Omer, assignor.)
Duis, Omer, assignor of one-half to A. Duis, Streator, Ill. Moisture-supplying device for carbureted air. No. 1,043,080; Nov. 5; Gaz. vol. 184; p. 11.
Dujardin, Henri, New York, N. Y. Preserving fruit and vegetables. No. 1,018,812; Feb. 27; Sp. p. 5744; Gaz. vol. 175; p. 991.
Duke, John F., Manchester, England. Alloy. No. 1,044,761; Nov. 19; Gaz. vol. 184; p. 660.
Dukeman, Elwood C. (See Shutt and Dukeman.)
Dulany, William T., Jr., Arlington, N. J. Spring-wheel. No. 1,029,177; June 11; Sp. p. 2398; Gaz. vol. 179; p. 409.
Dulin, John L., assignor to The Hoosier Account Register Company, Noblesville, Ind. Account-register. No. 1,030,289; June 25; Sp. p. 4849; Gaz. vol. 179; p. 868.
Dulin, William T., Philadelphia, Pa. Blank-handling mechanism. No. 1,023,138; Apr. 16; Sp. p. 2989; Gaz. vol. 177; p. 538.
Dulkowski, John, Philadelphia, Pa. Feed-bag. No. 1,040,655; Oct. 8; Gaz. vol. 183; p. 368.
Dull, Andrew J. (See Weatherby, Joseph, Jr., assignor.)
Dull, Andrew J. (See Weatherby and Dull.)
Dull, Raymond W., Aurora, Ill. Pulley. No. 1,029,535; June 11; Sp. p. 3171; Gaz. vol. 179; p. 532.
Dull, Raymond W., Aurora, Ill. Distributer for screening apparatus. No. 1,037,221; Sept. 3; Gaz. vol. 182; p. 15.
Dull, Raymond W., Aurora, Ill., assignor to Stephens-Adamson Manufacturing Company. Conveyer-bucket. No. 1,026,385; May 14; Sp. p. 2866; Gaz. vol. 178; p. 475.
Dulles, William, Englewood, N. J. Tank-flushing apparatus. No. 1,028,198; June 4; Sp. p. 314; Gaz. vol. 179; p. 41.
Dulles, William, Englewood, N. J. Window construction. No. 1,042,657; Oct. 29; Gaz. vol. 183; p. 1140.
Dullum, John P., Wright, Minn. Rail-joint. No. 1,021,359; Mar. 26; Sp. p. 4987; Gaz. vol. 176; p. 910.
Duluth Corrugating & Roofing Company. (See McMartin, Malcolm J., assignor.)
Dumas, John A. (See Ruble and Dumas.)
Dumbier, Julius A., Nanticoke, Pa. Bolt. No. 1,018,887; Feb. 27; Sp. p. 5891; Gaz. vol. 175; p. 1015.
Dumont, Gustave, Neuilly-sur-Seine, France. Transmission-gearing for automobile vehicles. No. 1,032,350; July 9; Gaz. vol. 180; p. 560.
Dun Lany, William P., assignor to E. L. Thurston, trustee, Cleveland, Ohio. Ticket-issuing machine. No. 1,028,199; June 4; Sp. p. 318; Gaz. vol. 179; p. 42.

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Dunai, Josef, Racine, Wis. Lock. No. 1,014,577; Jan. 9; Sp. p. 3240; Gaz. vol. 174; p. 540.
Dunbar, Harris T., Buffalo, N. Y. Wheel. No. 1,048,666; Dec. 31; Gaz. vol. 185; p. 1129.
Dunbar, Jesse. (See Logsdon and Dunbar.)
Dunbar, Willis C. (See Fischer, Louis E., assignor.)
Duncan, Charles B. (See Levien and Duncan.)
Duncan, Charles E., Sault Ste. Marie, Ontario, Canada, and J. Fawell, Pittsburgh, Pa. Manufacture of structural material. No. 1,021,137; Mar. 26; Sp. p. 4519; Gaz. vol. 176; p. 833.
Duncan, Charles P., *et al.* (See Black, John P., assignor.)
Duncan, Clark J., Windber, Pa. Water-wheel. No. 1,031,430; July 2; Gaz. vol. 180; p. 204.
Duncan, Francis M., Los Angeles, and W. S. Eisenberg, Alhambra; said Duncan assignor of one-fourth to E. H. Fosdick, Los Angeles, Cal. Apparatus for fumigation. No. 1,037,744; Sept. 3; Gaz. vol. 182; p. 189.
Duncan, Hugh, Langside, Glasgow, Scotland. Vehicle-wheel. No. 1,013,282; Jan. 2; Sp. p. 421; Gaz. vol. 174; p. 68.
Duncan, Irvin B., Maceo, Ky. Combined shaft-support and thill-coupling. No. 1,039,711; Oct. 1; Gaz. vol. 183; p. 13.
Duncan, James E., Elton, La. Combined step and extension ladder. No. 1,028,691; June 4; Sp. p. 1338; Gaz. vol. 179; p. 208.
Duncan, John P., New York, N. Y. Sash-holder. No. 1,031,633; July 2; Gaz. vol. 180; p. 272.
Duncan, Joseph F. (See Larkin and Duncan.)
Duncan, Joseph S., assignor to Addressograph Company, Chicago, Ill. Printing device. No. 1,015,757; Jan. 23; Sp. p. 5873; Gaz. vol. 174; p. 1001.
Duncan, Joseph S., assignor to Addressograph Company, Chicago, Ill. Printing device. No. 1,015,758; Jan. 23; Sp. p. 5876; Gaz. vol. 174; p. 1002.
Duncan, Joseph S., assignor to Addressograph Company, Chicago, Ill. Printing device. No. 1,026,244; May 14; Sp. p. 2554; Gaz. vol. 178; p. 427.
Duncan, Joseph S., assignor to Addressograph Company, Chicago, Ill. Printing device. No. 1,026,245; May 14; Sp. p. 2557; Gaz. vol. 178; p. 428.
Duncan, Joseph S., assignor to Addressograph Company, Chicago, Ill. Printing device. No. 1,026,246; May 14; Sp. p. 2558; Gaz. vol. 178; p. 428.
Duncan, Joseph S., assignor to Addressograph Company, Chicago, Ill. Printing device. No. 1,026,247; May 14; Sp. p. 2560; Gaz. vol. 178; p. 428.
Duncan, Joseph S., assignor to Addressograph Company, Chicago, Ill. Printing device. No. 1,026,248; May 14; Sp. p. 2561; Gaz. vol. 178; p. 429.
Duncan, Joseph S., assignor to Addressograph Company, Chicago, Ill. Printing device. No. 1,026,249; May 14; Sp. p. 2563; Gaz. vol. 178; p. 429.
Duncan, Joseph S., assignor to Addressograph Company, Chicago, Ill. Printing device. No. 1,026,250; May 14; Sp. p. 2563; Gaz. vol. 178; p. 429.
Duncan, Joseph S., assignor to Addressograph Company, Chicago, Ill. Printing device. No. 1,026,251; May 14; Sp. p. 2565; Gaz. vol. 178; p. 429.
Duncan, Joseph S., assignor to Addressograph Company, Chicago, Ill. Printing device. No. 1,026,252; May 14; Sp. p. 2568; Gaz. vol. 178; p. 430.
Duncan, Joseph S., assignor to Addressograph Company, Chicago, Ill. Printing device. No. 1,026,253; May 14; Sp. p. 2569; Gaz. vol. 178; p. 430.
Duncan, Joseph S., assignor to Addressograph Company, Chicago, Ill. Printing device. No. 1,026,254; May 14; Sp. p. 2571; Gaz. vol. 178; p. 430.
Duncan, Joseph S., assignor to Addressograph Company, Chicago, Ill. Printing device. No. 1,026,255; May 14; Sp. p. 2573; Gaz. vol. 178; p. 431.
Duncan, Joseph S., assignor to Addressograph Company, Chicago, Ill. Ribbon-inking mechanism for printing-machines. No. 1,031,541; July 2; Gaz. vol. 180; p. 240.
Duncan, Joseph S., assignor to Addressograph Company, Chicago, Ill. Printing device and making same. No. 1,048,459; Dec. 24; Gaz. vol. 185; p. 1017.
Duncan, Joseph S., assignor to Addressograph Company, Chicago, Ill. Die. No. 1,048,460; Dec. 24; Gaz. vol. 185; p. 1018.
Duncan, Joseph S., assignor to Addressograph Company, Chicago, Ill. Type-die. No. 1,048,461; Dec. 24; Gaz. vol. 185; p. 1018.
Duncan, Le Berten T., Long Pine, Nebr. Sanding device. No. 1,029,599; June 18; Sp. p. 3316; Gaz. vol. 179; p. 590.
Duncan, William M., Alton, Ill. Ignition-arch for furnaces. No. 1,027,326; May 21; Sp. p. 4944; Gaz. vol. 178; p. 832.
Duncan, William M., Alton, Ill. Mechanical stoker. No. 1,031,253; July 2; Gaz. vol. 180; p. 143.
Duncan, William M., Alton, Ill. Mechanical stoker. No. 1,031,254; July 2; Gaz. vol. 180; p. 144.
Duncan, William M., Alton, Ill. Chain grate. No. 1,048,053; Dec. 24; Gaz. vol. 185; p. 880.
Duncan, William W., New York, N. Y. Detachable fastener. No. 1,041,981; Oct. 22; Gaz. vol. 183; p. 882.
Duncan, William W., Watertown, assignor to Hood Rubber Company, Boston, Mass. Testing-machine. No. 1,045,825; Dec. 3; Gaz. vol. 185; p. 10.
Duncan, William W., and N. E. Tousley, Watertown, assignors to Hood Rubber Co., Boston, Mass. Apparatus for producing rubber-coated blanks. No. 1,016,483; Feb. 6; Sp. p. 562; Gaz. vol. 175; p. 87.
Duncan, William W., Boston, and N. E. Tousley, Watertown, Mass., assignors to Hood Rubber Company. Vulcanizing vulcanizable articles. No. 1,048,138; Dec. 24; Gaz. vol. 185; p. 910.
Duncan, William W., Watertown, and A. N. Hood, Newton, assignors to Hood Rubber Company, Boston, Mass. Making pneumatic tires. No. 1,016,918; Feb. 6; Sp. p. 1514; Gaz. vol. 175; p. 234.
Dundon, Patrick F., San Francisco, Cal. Combined charging-hopper and trap-door therefor. No. 1,040,906; Oct. 8; Gaz. vol. 183; p. 448.
Dundon, Patrick F., San Francisco, Cal. Incinerating-furnace. No. 1,044,868; Nov. 19; Gaz. vol. 184; p. 696.
Duner, John C., Wheaton, Ill. Door. No. 1,022,661; Apr. 9; Sp. p. 1922; Gaz. vol. 177; p. 335.
Dunfee, Jesse, Coshocton, Ohio. Wrapper. No. 1,025,457; May 7; Sp. p. 779; Gaz. vol. 178; p. 122.
Dunfee, John C., assignor to The Van Dorn & Dutton Company, Cleveland, Ohio. Electric switch. No. 1,042,414; Oct. 29; Gaz. vol. 183; p. 1053.
Dunfield, Bliss H., St. John, New Brunswick, Canada. Stenographer's envelop and stamp moistener. No. 1,027,406; May 28; Sp. p. 5117; Gaz. vol. 178; p. 898.
Dungan, George W., Mount Joy, and C. E. Hoover, Strasburg, Pa. Washing-machine. No. 1,047,181; Dec. 17; Gaz. vol. 185; p. 547.
Dungan, Isaac H., Humboldt, Tenn. Water-motor. No. 1,017,860; Feb. 20; Sp. p. 3600; Gaz. vol. 175; p. 631.
Dunham, Berman S., Detroit, Mich. Railway-crossing. No. 1,015,151; Jan. 16; Sp. p. 4555; Gaz. vol. 174; p. 768.
Dunham, Carl E., Maddock, N. D. Starting device for gas-engines. No. 1,022,538; Apr. 9; Sp. p. 1652; Gaz. vol. 177; p. 294.
Dunham, Carl E., Maddock, N. D., and J. N. Dunham, Norge, Va. Rail-chair. No. 1,043,216; Nov. 5; Gaz. vol. 184; p. 61.
Dunham, Clayton A., Marshalltown, Iowa. Steam-trap. No. 1,035,557; Aug. 13; Gaz. vol. 181; p. 422.
Dunham, Clayton A., Marshalltown, Iowa. Air-valve. No. 1,048,508; Dec. 31; Gaz. vol. 185; p. 1073.
Dunham Company, The. (See Dunham, Wiley J., assignor.)
Dunham, Ernest W., Topeka, Kans. Acetylene-gas generator. No. 1,013,752; Jan. 2; Sp. p. 1462; Gaz. vol. 174; p. 231.
Dunham, Frank, New York, N. Y. Clothes-drier. No. 1,018,037; Feb. 20; Sp. p. 4008; Gaz. vol. 175; p. 694.
Dunham, Frank S., and J. W. Greenough, Red Lodge, Mont. Truck-bolster. No. 1,042,207; Oct. 22; Gaz. vol. 183; p. 956.
Dunham, Franklin H., Santa Paula, Cal. Method of and apparatus for treating asphaltic oils for the production of asphalt and the recovery of lighter products. No. 1,013,283; Jan. 2; Sp. p. 423; Gaz. vol. 174; p. 68.
Dunham, George C., Cincinnati, Ohio. Washing-machine pounder. No. 1,014,578; Jan. 9; Sp. p. 3242; Gaz. vol. 174; p. 540.
Dunham, George H. (See Munger, James V., assignor.)
Dunham, George H., Clayton, N. Mex. Combination brush and comb. No. 1,044,361; Nov. 12; Gaz. vol. 184; p. 489.
Dunham, George W., assignor to The Chalmers Motor Company, Detroit, Mich. Radiator. No. 1,022,662; Apr. 9; Sp. p. 1924; Gaz. vol. 177; p. 335.
Dunham, George W., assignor to Chalmers Motor Company, Detroit, Mich. Ventilator. No. 1,045,776; Nov. 26; Gaz. vol. 184; p. 1043.
Dunham, Henry V., Bainbridge, N. Y., assignor to Nacirema Chemical Company. Converting phosphorites. No. 1,034,090; July 30; Gaz. vol. 180; p. 1257.
Dunham, John C., and F. A. Turner, Greenville, Ohio. Hydrocarbon-burner. No. 1,030,843; June 25; Sp. p. 6420; Gaz. vol. 179; p. 1069.
Dunham, Julius N. (See Dunham, Carl E. and J. N.)
Dunham, Melbourne K., Brookline, Mass. Blowpipe. No. 1,039,036; Sept. 17; Gaz. vol. 182; p. 696.
Dunham, Orson W., assignor, by mesne assignments, to The Braeckel Concentrator Company, Joplin, Mo. Sludge-table. No. 1,023,009; Apr. 9; Sp. p. 2671; Gaz. vol. 177; p. 456.
Dunham, Wiley J., assignor to The Dunham Company, Berea, Ohio. Soil-pulverizer. No. 1,023,139; Apr. 16; Sp. p. 2994; Gaz. vol. 177; p. 538.
Dunham, Wiley J., assignor to The Dunham Company, Berea, Ohio. Implement-handle. No. 1,038,732; Sept. 17; Gaz. vol. 182; p. 594.
Dunham, William G., East Lansdowne, Pa. Sewing-machine attachment. No. 1,029,917; June 18; Sp. p. 4046; Gaz. vol. 179; p. 703.
Dunkel, Wilber R., Pana, assignor of one-half to C. R. Scroggin, Harristown, Ill. Automobile-primer. No. 1,021,765; Apr. 2; Sp. p. 20; Gaz. vol. 177; p. 6.

Alphabetical list of patentees—Continued.

Dunkelbarger, Orra L., Nevada, Iowa. Seed-corn box. No. 1,049,293; Dec. 31; Gaz. vol. 185; p. 1343.
Dunkle, Samuel F., trustee. (See Morton, Walter S., assignor.)
Dunkle, Samuel K., assignor to Safety Foot Guard & Railway Appliance Company, Wheeling, W. Va. Foot-guard. No. 1,014,286; Jan. 9; Sp. p. 2655; Gaz. vol. 174; p. 443.
Dunkley, Melville E., Kalamazoo, Mich. Machine for stemming cherries. No. 1,029,918; June 18; Sp. p. 4048; Gaz. vol. 179; p. 703.
Dunlap, Charles, Edgewood, Cal. Lifting-jack. No. 1,021,138; Mar. 26; Sp. p. 4520; Gaz. vol. 176; p. 833.
Dunlap, John A. (See Thurman and Dunlap.)
Dunlap, William C., Eupora, Miss. Cultivator attachment. No. 1,025,458; May 7; Sp. p. 780; Gaz. vol. 178; p. 122.
Dunlap, William C., Europa, Miss. Combined cultivator and planter. No. 1,045,381; Nov. 26; Gaz. vol. 184; p. 902.
Dunlap, William J., Atlanta, Ga. Lace-cabinet. No. 1,035,429; Aug. 13; Gaz. vol. 181; p. 379.
Dunlavy, Harry C., Fresno, Cal. Air-deflector. No. 1,037,138; Aug. 27; Gaz. vol. 181; p. 1029.
Dunleavy, James F., Newton, Mass. Support for furniture-drawers. No. 1,040,907; Oct. 8; Gaz. vol. 183; p. 448.
Dunleavy, James F., Newton, Mass. Filing-case. No. 1,044,032; Nov. 12; Gaz. vol. 184; p. 377.
Dunlevy, Harrison H., Wheeling, W. Va. Axle-clutch. No. 1,047,182; Dec. 17; Gaz. vol. 185; p. 548.
Dunlop, James B., Everett, Mass. Steering-gear. No. 1,046,158; Dec. 3; Gaz. vol. 185; p. 124.
Dunlop, Robert R., Columbus, Ohio, assignor to The Jeffrey Manufacturing Company. Trolley-retriever. No. 1,039,502; Sept. 24; Gaz. vol. 182; p. 876.
Dunlop, Robert R., Columbus, Ohio, assignor to The Jeffrey Manufacturing Company. Connecting device for electric conductors. No. 1,042,897; Oct. 29; Gaz. vol. 183; p. 1223.
Dunn, Alfred W., assignor to William Eastwood & Son Company, Rochester, N. Y. Shoe-forming machine. No. 1,019,310; Mar. 5; Sp. p. 683; Gaz. vol. 176; p. 107.
Dunn, Clifford E., New York, N. Y. Safety-razor. No. 1,022,623; Apr. 9; Sp. p. 1837; Gaz. vol. 177; p. 322.
Dunn, Clifford E., New York, N. Y. Stropping-machine. No. 1,047,393; Dec. 17; Gaz. vol. 185; p. 624.
Dunn, Edward A., Newton, Mass. Index system. No. 1,017,089; Feb. 13; Sp. p. 1928; Gaz. vol. 175; p. 331.
Dunn, Edward L., Worcester, Mass., assignor to Standard Plunger Elevator Company, New York, N. Y. Pumping system. No. 1,037,879; Sept. 10; Gaz. vol. 182; p. 268.
Dunn, Frank P., assignor to The Anderson Tool Company, Anderson, Ind. Scale. No. 1,017,656; Feb. 20; Sp. p. 3105; Gaz. vol. 175; p. 561.
Dunn, Frank P., assignor to The Anderson Tool Company, Anderson, Ind. Scale. No. 1,018,173; Feb. 20; Sp. p. 4319; Gaz. vol. 175; p. 741.
Dunn, Frank P., assignor of thirty one-hundredths to Anderson Tool Company, Anderson, Ind., and one-fourth to O. C. Reeves, Toledo, Ohio: Scale. No. 1,018,813; Feb. 27; Sp. p. 5745; Gaz. vol. 175; p. 991.
Dunn, Fred J., *et al.* (See Hall, Frank M., assignor.)
Dunn, Frederick W., Chicago, Ill., assignor to G. H. Harrison and G. E. McGibney, Corning, N. Y. Building-block. No. 1,028,814; June 4; Sp. p. 1598; Gaz. vol. 179; p. 250.
Dunn, Gano, East Orange, assignor to Crocker-Wheeler Company, Ampere, N. J. Squirrel-cage rotor for electric motors. No. 1,013,753; Jan. 2; Sp. p. 1464; Gaz. vol. 174; p. 231.
Dunn, George F., Brockton, assignor to W. B. Arnold, North Abington, Mass. Match-box. No. 1,036,198; Aug. 20; Gaz. vol. 181; p. 679.
Dunn, James F., Salt Lake City, Utah. Locomotive ash-pan. No. 1,021,668; Mar. 26; Sp. p. 5636; Gaz. vol. 176; p. 1014.
Dunn, John, Streator, Ill., assignor to The Vulcan Detinning Company, New York, N. Y. Machine for compressing sheet-metal scraps. No. 1,033,089; July 23; Gaz. vol. 180; p. 891.
Dunn, John, Streator, Ill., assignor to The Vulcan Detinning Company, New York, N. Y. Metal-scrap-compressing machine. No. 1,033,090; July 23; Gaz. vol. 180; p. 892.
Dunn, John, Streator, Ill., assignor to The Vulcan Detinning Company, New York, N. Y. Receiving-box for metal-scrap-compressing machines. No. 1,033,091; July 23; Gaz. vol. 180; p. 892.
Dunn, John B., Woonsocket, R. I. Cloth-finishing machine. No. 1,019,615; Mar. 5; Sp. p. 1349; Gaz. vol. 176; p. 205.
Dunn, John H. (See Logan, Crawford D., assignor.)
Dunn, Joseph E., Philadelphia, Pa. Evaporator. No. 1,033,558; July 23; Gaz. vol. 180; p. 1049.
Dunn, Joseph E., Philadelphia, Pa. Mechanism for concentrating liquids. No. 1,033,559; July 23; Gaz. vol. 180; p. 1049.
Dunn, Julius J., Denver, Colo. Fastening device. No. 1,031,431; July 2; Gaz. vol. 180; p. 204.
Dunn, Matthew J., Providence, R. I. Swivel-hook. No. 1,034,432; Aug. 6; Gaz. vol. 181; p. 11.
Dunn, Patrick T., Cedar Rapids, Iowa. Adjustable ball-caster. No. 1,016,324; Feb. 6; Sp. p. 201; Gaz. vol. 175; p. 31.
Dunn, Peter S., assignor of one-third to D. E. Fitz Gerald and one-third to T. F. Fitzsimmons, New Haven, Conn. Valve. No. 1,022,471; Apr. 9; Sp. p. 1518; Gaz. vol. 177; p. 272.
Dunn, Peter S., assignor of one-third to D. E. FitzGerald and one-third to T. F. Fitzsimmons, New Haven, Conn. Valve. No. 1,047,183; Dec. 17; Gaz. vol. 185; p. 548.
Dunn, Royal J., Port Huron, Mich. Carbureter. No. 1,020,270; Mar. 12; Sp. p. 2682; Gaz. vol. 176; p. 455.
Dunn, Russell L., and L. M. Hall, San Francisco, Cal. Subaqueous tunneling and excavating. No. 1,017,622; Feb. 13; Sp. p. 3028; Gaz. vol. 175; p. 512.
Dunn, Sola B., Chicago, Ill. Mouth-speculum. No. 1,022,068; Apr. 2; Sp. p. 670; Gaz. vol. 177; p. 107.
Dunn, Thomas W., Oil City, Pa. Spring-mounting. No. 1,041,255; Oct. 15; Gaz. vol. 183; p. 601.
Dunn, Walter C., Manitou, Ky. Wire-fence clamp. No. 1,027,109; May 21; Sp. p. 4508; Gaz. vol. 178; p. 759.
Dunn, William J., and H. B. Taylor, Montreal, Quebec, Canada. Wall-paper-hanging device. No. 1,045,826; Dec. 3; Gaz. vol. 185; p. 11.
Dunn, William J., and H. B. Taylor, assignors to Standard Machines Limited, Montreal, Quebec, Canada. Wall-paper-hanging device. No. 1,046,452; Dec. 10; Gaz. vol. 185; p. 265.
Dunn, William J., and H. B. Taylor, assignors to Standard Machines Limited, Montreal, Quebec, Canada. Wall-paper-hanging device. No. 1,046,744; Dec. 10; Gaz. vol. 185; p. 370.
Dunn, William R., Easton, Pa. Apparatus for heating furnaces or kilns. No. 1,013,379; Jan. 2; Sp. p. 643; Gaz. vol. 174; p. 102.
Dunn, William R., Easton, Pa. Electrically-controlled bag filling and weighing device. No. 1,013,380; Jan. 2; Sp. p. 645; Gaz. vol. 174; p. 102.
Dunn, William R., Easton, Pa. Bag-holding device. No. 1,013,381; Jan. 2; Sp. p. 647; Gaz. vol. 174; p. 102.
Dunn, William R., Easton, Pa. Powdered-fuel-feeding apparatus. No. 1,028,997; June 11; Sp. p. 2026; Gaz. vol. 179; p. 348.
Dunne, Edward J., Newark, N. J. Railway-switch contact. No. 1,043,217; Nov. 5; Gaz. vol. 184; p. 62.
Dunnebacke, Fred A., and E. A. Harris; said Fred A. Dunnebacke assignor to H. J. Dunnebacke, Lansing, Mich. Faucet. No. 1,026,854; May 21; Sp. p. 3879; Gaz. vol. 178; p. 670.
Dunnebacke, Henry J. (See Dunnebacke and Harris, assignors.)
Dünnenberger, Carl, and B. Heierle, Zürich, Switzerland. Umbrella-rod. No. 1,042,658; Oct. 29; Gaz. vol. 183; p. 1141.
Dunning, Edward, St. Louis, Mo. Roundabout. No. 1,020,084; Mar. 12; Sp. p. 2296; Gaz. vol. 176; p. 393.
Dunning, James A., Aulander, N. C. Brickmaking-machine. No. 1,025,133; May 7; Sp. p. 49; Gaz. vol. 178; p. 9.
Dunning, Parker, Schenectady, N. Y., assignor to General Electric Company. Motor-controlling device. No. 1,019,439; Mar. 5; Sp. p. 1008; Gaz. vol. 176; p. 147.
Dunphy, Thomas F., Haydenville, Mass. Sanitary drinking-fountain. No. 1,044,033; Nov. 12; Gaz. vol. 184; p. 378.
Dunsmore, Nathan. (See Harris, Samuel L., assignor.)
Dunton, George E., New York, N. Y. Composition of matter for use in removing grease, &c., from molds used in electrotyping. No. 1,030,290; June 25; Sp. p. 4851; Gaz. vol. 179; p. 868.
Dunton, George E., New York, N. Y. Composition of matter for use in removing grease, &c., from the molds used in the art of electrotyping. No. 1,040,908; Oct. 8; Gaz. vol. 183; p. 449.
Dunton, Orravill L., North Adams, Mass. Flying-machine. No. 1,018,413; Feb. 27; Sp. p. 4833; Gaz. vol. 175; p. 856.
Dunwody, Robson, Kirkwood, Ga. Signaling apparatus for turpentine-stills. No. 1,018,038; Feb. 20; Sp. p. 4009; Gaz. vol. 175; p. 694.
Dunwody, Robson, Atlanta, Ga. Thermometer. No. 1,018,306; Feb. 20; Sp. p. 4579; Gaz. vol. 175; p. 786.
Dunwody, Robson, Kirkwood, Ga., assignor to Neal Naval Stores Company. Recording and indicating thermometer for stills. No. 1,035,952; Aug. 20; Gaz. vol. 181; p. 592.
Dunwody, Robson, Kirkwood, Ga., assignor to Neal Naval Stores Company. Thermometer for turpentine-stills. No. 1,035,953; Aug. 20; Gaz. vol. 181; p. 592.
Dunwody, Robson, Jacksonville, Fla., assignor to Neal Naval Stores Company. Turpentine-receptacle. No. 1,045,005; Nov. 19; Gaz. vol. 184; p. 743.
Dupart, Eugene F., assignor to J. L. Geddes, Detroit, Mich. Wind-shield. No. 1,046,566; Dec. 10; Gaz. vol. 185; p. 307.
Duplan Silk Company. (See Geier, Ernst K., assignor.)
Duplessis, Elouild, Maisonneuve, Quebec, assignor to H. M. Pontbriand, Sorel, Canada. Stamp-affixing machine. No. 1,035,558; Aug. 13; Gaz. vol. 181; p. 423.
Duplex Envelope & Printing Company. (See Stevens Willis F., assignor.)

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Duplex Metals Company. (See Monnot, John F., assignor.)
Duplex Printing Press Company. (See Bechman, Henry F., assignor.)
Duplicator Manufacturing Company. (See Flanigan, John J., assignor.)
Dupray, E. E., *et al.* (See Lindsey, Charles E., assignor.)
Dupré, Wilfred, Worcester, Mass. Combined scrubber and mop. No. 1,020,809; Mar. 19; Sp. p. 3836; Gaz. vol. 176; p. 672.
Dupré, Wilfred, Worcester, Mass. Combined mop holder and wringer. No. 1,026,625; May 14; Sp. p. 3362; Gaz. vol. 178; p. 554.
Dupré, Wilfred, Worcester, Mass. Combined scrubber and mop. No. 1,038,542; Sept. 17; Gaz. vol. 182; p. 528.
Dupuis, Joseph A., Portland, Oreg. Hinge. No. 1,024,837; Apr. 30; Sp. p. 6672; Gaz. vol. 177; p. 1174.
Dupuis, Noel, Aberdeen, Wash. Shoe-cleaner. No. 1,044,762; Nov. 19; Gaz. vol. 184; p. 660.
Duquett, Maxim A., assignor of one-half to J. A. Barber, Toledo, Ohio. Chain pipe-wrench. No. 1,043,813; Nov. 12; Gaz. vol. 184; p. 300.
Durafort Company, The. (See Bijur and Joy, assignors.)
Durand, Everiste J., Cheboygan, Mich. Thread-holding device. No. 1,035,559; Aug. 13; Gaz. vol. 181; p. 423.
Durand, Nelson C. (See Seeley and Durand.)
Durand, Nelson C., Newark, assignor, by mesne assignments, to Thomas A. Edison, Incorporated, West Orange, N. J. Controlling device. No. 1,027,702; May 28; Sp. p. 5715; Gaz. vol. 178; p. 996.
Durand, Nelson C., East Orange, assignor, by mesne assignments, to Thomas A. Edison, Incorporated, West Orange, N. J. Dictation memorandum-sheet. No. 1,033,999; July 30; Gaz. vol. 180; p. 1225.
Durant-Dort Carriage Company. (See Martell, Herbert C., assignor.)
Durant, Edward M., *et al.* (See Smith, Robert H., assignor.)
Durbin, Alfred, McConnelsville, Ohio. Magneto for internal-combustion engines. No. 1,022,832; Apr. 9; Sp. p. 2316; Gaz. vol. 177; p. 396.
Durbin, James F. and V. S., Fort Scott, Kans. Railway-car coupling. No. 1,019,138; Mar. 5; Sp. p. 296; Gaz. vol. 176; p. 46.
Durbin, James F. and V. S., Fort Scott, Kans. Railway-car coupling. No. 1,025,521; May 7; Sp. p. 926; Gaz. vol. 178; p. 144.
Durbin, James F. and V. S., Fort Scott, Kans. Lock-set for car-couplings. No. 1,033,388; July 23; Gaz. vol. 180; p. 994.
Durbin, James F. and V. S., Fort Scott, Kans. Railway-car coupling. No. 1,037,458; Sept. 3; Gaz. vol. 182; p. 96.
Durbin, James F., Denver, Colo., and V. S. Durbin, St. Louis, Mo. Car-coupling. No. 1,037,459; Sept. 3; Gaz. vol. 182; p. 97.
Durbin, Votaw S. (See Durbin, James F. and V. S.)
Duren, Charles A., *et al.* (See Stafford, Earl C., assignor.)
Durfee, Walter H., Providence, R. I. Circuit-controller. No. 1,034,000; July 30; Gaz. vol. 180; p. 1226.
Durfee, Walter H., Providence, R. I. Bell-ringing apparatus. No. 1,034,001; July 30; Gaz. vol. 180; p. 1226.
Durgan, Willard C., Syracuse, assignor of one-third to F. Geyduschek, Hicksville, N. Y. Aeroplane. No. 1,048,509; Dec. 31; Gaz. vol. 185; p. 1074.
Durham Duplex Razor Company. (See Drew, John E., assignor.)
Durnil, Ludwell B., *et al.* (See Goldsborough and Grewe, assignors.)
Durno, John H., Rochester, N. Y. Priming mechanism for explosive-engines. No. 1,042,415; Oct. 29; Gaz. vol. 183; p. 1054.
Durr, Henry H., Springfield, Ohio. Vehicle-tire. No. 1,018,814; Feb. 27; Sp. p. 5748; Gaz. vol. 175; p. 992.
Durran, William, Percy township, Ontario, Canada. Traction-engine. No. 1,037,222; Sept. 3; Gaz. vol. 182; p. 15.
Durrett, Dawson W., Clarksville, Tenn. Grain-scourer. No. 1,045,687; Nov. 26; Gaz. vol. 184; p. 1013.
Durstewitz, Otto, Parral, Chihuahua, Mexico, assignor of one-half to F. Reichmann, Chicago, Ill. Feeding apparatus. No. 1,038,733; Sept. 17; Gaz. vol. 182; p. 595.
Duryea, Benjamin L., *et al.* (See Wooster, Philip L., assignor.)
Duryea, Charles E., Reading, Pa. Pneumatic cleaner. No. 1,034,597; Aug. 6; Gaz. vol. 181; p. 65.
Duryea, Charles E., Reading, Pa. Motor-vehicle. No. 1,034,769; Aug. 6; Gaz. vol. 181; p. 123.
Duryea Manufacturing Company *et al.* (See Wooster, Philip L., assignor.)
Duryea, Otho C. (See White and Duryea.)
Duschen, Elmer, Silver Springs, N. Y. Evener-bar. No. 1,024,318; Apr. 23; Sp. p. 5475; Gaz. vol. 177; p. 960.
Duscher, Ernest. (See Sorg and Duscher.)
Duscher, Ernest, La Crosse, Wis., assignor to The Vote Berger Company. Type-setter. No. 1,043,910; Nov. 12; Gaz. vol. 184; p. 334.
Duscher, Ernest, La Crosse, Wis., assignor to The Vote Berger Company. Printing-machine. No. 1,043,911; Nov. 12; Gaz. vol. 184; p. 335.
Dusetzina, Michael, Rankin, Pa. Hat-pin-point-protecting device. No. 1,046,282; Dec. 3; Gaz. vol. 185; p. 169.
Dusinberre, George B., Cleveland, Ohio. Electric controller. No. 1,038,320; Sept. 10; Gaz. vol. 182; p. 416.
Dusinberre, George B., Cleveland, Ohio, assignor, by mesne assignments, to Allen-Bradley Company, Milwaukee, Wis. Current-controller. No. 1,041,982; Oct. 22; Gaz. vol. 183; p. 882.
Dusseris, Henri F. E. S., and J. T. F. Conti, Paris, France. Lantern and plates therefor. No. 1,028,692; June 4; Sp. p. 1340; Gaz. vol. 179; p. 208.
Düsterloh, Gustav, Sprockhövel, Germany. Aerial vessel. No. 1,020,484; Mar. 19; Sp. p. 3122; Gaz. vol. 176; p. 563.
Dustin, Charles, Brockport, N. Y. Lantern. No. 1,047,768; Dec. 17; Gaz. vol. 185; p. 757.
Dustin, Gordon J., assignor to J. F. Dustin, Fulton, N. Y. Loom-shuttle. No. 1,027,703; May 28; Sp. p. 5716; Gaz. vol. 178; p. 996.
Dustin, Gordon J., assignor to J. F. Dustin, Fulton, N. Y. Loom-shuttle. No. 1,027,704; May 28; Sp. p. 5718; Gaz. vol. 178; p. 996.
Dustin, John E., Pittsfield, N. H. Automatic trap-nest. No. 1,024,319; Apr. 23; Sp. p. 5476; Gaz. vol. 177; p. 960.
Dustin, John F. (See Dustin, Gordon J., assignor.)
Dustin, John F., Fulton, N. Y. Picker mechanism for looms. No. 1,034,433; Aug. 6; Gaz. vol. 181; p. 12.
Dustin, John F., Lawrence, Mass. Warp stop-motion for looms. No. 1,043,814; Nov. 12; Gaz. vol. 184; p. 301.
Dustin, John F., Lawrence, Mass. Warp stop-motion for looms. No. 1,043,815; Nov. 12; Gaz. vol. 184; p. 301.
Dustman, Edward J., New York, N. Y. Outlet-box. No. 1,023,460; Apr. 16; Sp. p. 3636; Gaz. vol. 177; p. 645.
Duston, Ernest W., assignor to The Blake and Johnson Company, Waterbury, Conn. Cutting-off and carrying mechanism for heading-machines. No. 1,015,382; Jan. 23; Sp. p. 5061; Gaz. vol. 174; p. 873.
Duston, Ernest W., assignor to The Blake and Johnson Company, Waterbury, Conn. Heading mechanism. No. 1,026,082; May 14; Sp. p. 2201; Gaz. vol. 178; p. 371.
Duston, Ernest W., assignor to The Blake and Johnson Company, Waterbury, Conn. Machine for feeding headed blanks. No. 1,026,083; May 14; Sp. p. 2204; Gaz. vol. 178; p. 372.
Dutcher, Frank, Versailles, Pa. Fiber-case railway signal-torpedo. No. 1,015,153; Jan. 16; Sp. p. 4560; Gaz. vol. 174; p. 769.
Dutcher, Frank, Versailles, Pa. Parade-torch. No. 1,029,051; June 11; Sp. p. 2134; Gaz. vol. 179; p. 367.
Dutchess Tool Company. (See Van Houten, Frank H., Jr., assignor.)
Dutkowski, Stanislaw, Saginaw, Mich. Tie and rail-fastener. No. 1,031,634; July 2; Gaz. vol. 180; p. 272.
Dutton, Annie K., Washington, D. C. Bail for memorandum-calendars. No. 1,034,221; July 30; Gaz. vol. 180; p. 1303.
Dutton, Arthur L. (See O'Gorman, John, assignor.)
Dutton, Robert L., Wauneta, Kans., assignor, by mesne assignments, of one-half to The Dewey Manufacturing Company, Dewey, Okla. Sand-pump. No. 1,036,979; Aug. 27; Gaz. vol. 181; p. 976.
Dutton, Walter N., Oak Park, Ill. Heating apparatus. No. 1,022,184; Apr. 2; Sp. p. 915; Gaz. vol. 177; p. 146.
Duval, Louis R., New York, N. Y., assignor of one-half to G. C. Gardiner, Weehawken, N. J., and L. Knapp, New York, N. Y. Lighting system for vehicles. No. 1,033,560; July 23; Gaz. vol. 180; p. 1050.
Duxstad, Henry L., Cambridge, Wis. Hay-fork. No. 1,046,567; Dec. 10; Gaz. vol. 185; p. 307.
Duysens, Tossanus, Maastricht, Netherlands. Pneumatic hub for vehicle-wheels. No. 1,021,240; Mar. 26; Sp. p. 4747; Gaz. vol. 176; p. 867.
Dvorak, Joseph, Pittsburgh, Pa. Smoke-separator. No. 1,017,394; Feb. 13; Sp. p. 2573; Gaz. vol. 175; p. 436.
Dwight, Arthur S., New York, N. Y., assignor, by mesne assignments, to Dwight and Lloyd Metallurgical Company, Jersey City, N. J. Apparatus for roasting and sintering ores. No. 1,021,509; Mar. 26; Sp. p. 5349; Gaz. vol. 176; p. 963.
Dwight, Arthur S., New York, N. Y., assignor, by mesne assignments, to Dwight & Lloyd Metallurgical Company, Jersey City, N. J. Mechanism for treating ore. No. 1,027,110; May 21; Sp. p. 4509; Gaz. vol. 178; p. 760.
Dwight, Arthur S., New York, N. Y., assignor to Dwight & Lloyd Metallurgical Company. Conveying apparatus. No. 1,027,111; May 21; Sp. p. 4513; Gaz. vol. 178; p. 760.
Dwight, Arthur S., New York, N. Y., assignor to Dwight & Lloyd Metallurgical Company, Jersey City, N. J. Apparatus for roasting and sintering ores. (Reissue.) No. 13,423; May 28; Sp. p. 6608; Gaz. vol. 178; p. 1125.
Dwight, Arthur S., New York, N. Y., assignor to Dwight & Lloyd Metallurgical Company, Jersey City, N. J. Roasting and sintering ores and product resulting therefrom. (Reissue.) No. 13,424; May 28; Sp. p. 6616; Gaz. vol. 178; p. 1127.

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Dwight, Arthur S., and R. L. Lloyd, New York, N. Y., assignors, by mesne assignments, to Dwight & Lloyd Metallurgical Company, Jersey City, N. J. Metalliferous ore product. No. 1,020,345; Mar. 12; Sp. p. 2824; Gaz. vol. 176; p. 479.
Dwight & Lloyd Metallurgical Company. (See Dwight, Arthur S., assignor.)
Dwight & Lloyd Metallurgical Company. (See Dwight and Lloyd, assignors.)
Dwight Lloyd Metallurgical Company. (See Stehli, Henry J., assignor.)
Dwyer, William J., Bernard, Iowa. Heater. No. 1,032,191; July 9; Gaz. vol. 180; p. 504.
Dyar, Perlie A. (See Fellows, Charles F., assignor.)
Dyhlie, Julius A., Joliet, Ill. Dust-catcher. No. 1,045,532; Nov. 26; Gaz. vol. 184; p. 958.
Dybro, Peder F., Denver, Colo. Furnace. No. 1,046,745; Dec. 10; Gaz. vol. 185; p. 370.
Dych, Frederick R., Philadelphia, Pa. Cleat. No. 1,034,222; July 30; Gaz. vol. 180; p. 1303.
Dyer, Calvin V. (See Dyer, John W. and C. V.)
Dyer, Frank L. (See Aylsworth, Jonas W., assignor.)
Dyer, Frank L., Montclair, N. J. Portable electric heater. No. 1,021,974; Apr. 2; Sp. p. 483; Gaz. vol. 177; p. 77.
Dyer, Frank L., Montclair, N. J., assignor, by mesne assignments to Thomas A. Edison, Incorporated, West Orange, N. J. Making sound-records. No. 1,021,973; Apr. 2; Sp. p. 482; Gaz. vol. 177; p. 76.
Dyer, Frank L., Montclair, assignor, by mesne assignments, to Thomas A. Edison, Incorporated, West Orange, N. J. Talking-machine. No. 1,049,215; Dec. 31; Gaz. vol. 185; p. 1316.
Dyer, Frank L., Montclair, and P. Weber, Orange, assignors, by mesne assignments, to Thomas A. Edison, Incorporated West Orange, N. J. Phonograph-reproducer. No. 1,049,216; Dec. 31; Gaz. vol. 185; p. 1317.
Dyer, Harry W., East Orange, N. J., assignor, by mesne assignments, to Van Kannel Revolving Door Company, New York, N. Y. Revolving door. No. 1,045,827; Dec. 3; Gaz. vol. 185; p. 11.
Dye, J. C., *et al.* (See Huntley, Stephen A., assignor.)
Dye, Joel J., Atlanta, Ga. Apparatus for absorbing hydrofluoric acid. No. 1,016,219; Jan. 30; Sp. p. 6826; Gaz. vol. 174; p. 1186.
Dyer, Jefferson B., and J. D. Hobbs, Hanson, Okla. Churn. No. 1,015,383; Jan. 23; Sp. p. 5064; Gaz. vol. 174; p. 873.
Dyer, John W. and C. V., Hemlock, N. C. Barrel-support. No. 1,045,133; Nov. 26; Gaz. vol. 184; p. 816.
Dyer, Leonard H. (See Jensen, Conlan, and Dyer.)
Dyer, Leonard H. (See Loewenstein and Dyer.)
Dyer, Ralph A., Bangor, Me. Coal-chute. No. 1,030,653; June 25; Sp. p. 5843; Gaz. vol. 179; p. 1001.
Dyer, Wayne H. (See Ruel, St. Aubin, Dyer, and Sawyer.)
Dyer, William A., assignor to The Smith Premier Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 1,018,701; Feb. 27; Sp. p. 5490; Gaz. vol. 175; p. 952.
Dyer, William A., assignor to The Smith Premier Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 1,018,748; Feb. 27: Sp. p. 5604; Gaz. vol. 175; p. 969.
Dyer, William J., and A. F. Ewart, assignors to Honolulu Iron Works Company, Honolulu, Hawaii. Sugar-cane mill. No. 1,021,829; Apr. 2; Sp. p. 177; Gaz. vol. 177; p. 29.
Dyhrkopp, Christian H. F., Spencer, Iowa. Concrete-mold. No. 1,036,468; Aug. 20; Gaz. vol. 181; p. 772.
Dyk, Charles L., Orange City, Iowa. Manure-spreader. No. 1,046,746; Dec. 10; Gaz. vol. 185; p. 371.
Dyke, Herbert H., assignor, by mesne assignments, to Thomas A. Edison, Incorporated, West Orange, N. J. Phonograph-reproducer. No. 1,036,469; Aug. 20; Gaz. vol. 181; p. 772.
Dykeman, Lason A., Maryland, N. Y. Bag-holder. No. 1,032,820; July 16; Gaz. vol. 180; p. 764.
Dykes, Francis, Elizabeth, N. J., and D. E. Wells, New York, N. Y.; said Wells assignor to said Dykes. Pneumatic-power painting-machine. No. 1,034,988; Aug. 6; Gaz. vol. 181; p. 196.
Dymock, John, Stockport, England. Machine for the manufacture of twine. No. 1,015,154; Jan. 16; Sp. p. 4562; Gaz. vol. 174; p. 769.
Dymock, John, Stockport, England. Twine. No. 1,038,490; Sept. 10; Gaz. vol. 182; p. 476.
Dymond, John, assignor to L. S. McMurray, Toronto, Ontario, Canada. Machine for forming crimped pipe-elbows. No. 1,020,028; Mar. 12; Sp. p. 2175; Gaz. vol. 176; p. 375.
Dynes, Charles F., *et al.* (See Doner, Martin J., assignor.)
Dysart, Doctor R. (See Lavender, Ira, assignor.)
Dyson, Alfred H., Chicago, Ill., assignor, by mesne assignments, to Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Telephone system. No. 1,035,172; Aug. 13; Gaz. vol. 181; p. 288.
Dyson, Alfred H., Chicago, Ill., assignor, by mesne assignments, to Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Telephone apparatus. No. 1,035,173; Aug. 13; Gaz. vol. 181; p. 289.
Dyson, Alfred H., Chicago, Ill., assignor, by mesne assignments, to Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Trunking telephone system. No. 1,043,306; Nov. 5; Gaz. vol. 184; p. 93.
Dyson, Harry. (See Gaunt and Dyson.)
Dyson, Louis M., assignor to The American Hardware Corporation, New Britain, Conn. Button for suit-case locks. No. 1,023,823; Apr. 23; Sp. p. 4364; Gaz. vol. 177; p. 789.
Dziak, Andrew J., Cleveland, Ohio. Gearing. No. 1,047,509; Dec. 17; Gaz. vol. 185; p. 666.
Dzierwa, John, St. Louis, Mo. Drawing instrument. No. 1,021,583; Mar. 26; Sp. p. 5493; Gaz. vol. 176; p. 987.
E. Clemens Horst Company. (See Miller, George E., assignor.)
E. Goldman & Co. (See Paul, John T. H., assignor.)
E. Goldman & Co. (See Wakefield, George M., assignor.)
E. Goldman & Co. (See Werner, Henry E., assignor.)
E. Ingraham Co., The. (See Simmons, Charles B., assignor.)
E. Kirstein Sons Co. (See Kirstein, Henry E., assignor.)
E. A. Fargo Company, The. (See Cushman, William H., assignor.)
E. A. Mallory and Sons. (See Brush, George E., assignor.)
E. A. Mallory & Sons. (See Starr, John H., assignor.)
E. B. Cox Manufacturing Co. (See Cox, Ezekiel B., as signor.)
E. & B. Holmes Machinery Company. (See Beugler, Edwin F., assignor.)
E. B. Van Wagner Manufacturing Company. (See Sherman, Orrin M., assignor.)
E. C. Atkins & Company. (See Henderson, Minor J., assignor.)
E. C. Atkins & Company. (See Long, William E., assignor.)
E. G. Staude Manufacturing Co. (See Staude, Edwin G., assignor.)
E. H. Hotchkiss Company, The. (See Muth, John, assignor.)
E. H. Huenefeld Co., The. (See Huenefeld, Walter E., assignor.)
E. H. Jacobs Manufacturing Company, The. (See Hyde, Charles A., assignor.)
E. H. Schwartz & Son Co. (See Schwartz, Edward H., assignor.)
E. I. du Pont de Nemours Powder Company. (See Bichel, Christian E., assignor.)
E. I. du Pont de Nemours Powder Company. (See Brunswig, Heinrich, assignor.)
E. I. du Pont de Nemours Powder Company. (See Du Pont, Francis I., assignor.)
E. I. du Pont de Nemours Powder Company. (See Hall, Hiram P., assignor.)
E. I. du Pont de Nemours Powder Company. (See Heyer, Friedrich C., assignor.)
E. I. du Pont de Nemours Powder Company. (See Leisel, Albert, assignor.)
E. I. du Pont de Nemours Powder Company. (See Maxim, Hudson, assignor.)
E. I. du Pont de Nemours Powder Company. (See Peacock, Samuel, assignor.)
E. I. du Pont de Nemours Powder Company. (See Pier, Mathias, assignor.)
E. I. du Pont de Nemours Powder Company. (See Reuter, Otto, assignor.)
E. I. du Pont de Nemours Powder Company. (See Rintoul and Innes, assignors.)
E. I. du Pont de Nemours Powder Company. (See Sokolowski, Ernst, assignor.)
E. I. du Pont de Nemours Powder Company. (See Wagener, Gustav, assignor.)
E. J. Brooks & Co. (See Brooks, Winfred M., assignor.)
E. L. Watrous Galvanizing Company. (See Watrous, Edward L., assignor.)
E. M. Hulse Company, The. (See Curtis, James G., assignor.)
E. R. Knott Machine Company. (See Knott, Eustace R., assignor.)
E. R. Thomas Motor Company. (See Nehrbas, Pleuthner, and Salzman, assignors.)
E. T. Burrowes Company, The. (See Cole, Warren W., assignor.)
E. T. Burrowes Company, The. (See Davis, George H., assignor.)
E. W. Bliss Company. (See Gabriel, Charles R., assignor.)
E. W. Bliss Company. (See Kruse, Peter, assignor.)
E. W. Bliss Company. (See Leavitt, Frank M., assignor.)
E. W. Bliss Company. (See Orton, Frederick, assignor.)
E. W. Bliss Company. (See Page, Frank C. B., assignor.)
Eadie, John M., New York, N. Y., assignor to Eadie Vehicle Gear Company. Turning device for vehicles. No. 1,028,866; June 11; Sp. p. 1723; Gaz. vol. 179; p. 302.
Eadie Vehicle Gear Company. (See Eadie, John M., assignor.)
Eagan, Eugene R., Hubbard, Iowa. Soil-pulverizer. No. 1,015,303; Jan. 23; Sp. p. 4883; Gaz. vol. 174; p. 846.
Eager, Albert E., Philadelphia, Pa. Bung-borer. No. 1,046,747; Dec. 10; Gaz. vol. 185; p. 371.
Eagle Glass & Mfg. Co. (See Fusner, Jesse L., assignor.)

Alphabetical list of patentees—Continued.

Eagle Lock Co. (See Murphy, James J., assignor.)
Eagle Lock Co. (See Roche, James, assignor.)
Eagle Lock Co. (See Weed, David W., assignor.)
Eagle Pencil Company. (See Boman, Claes W., assignor.)
Eagle Square Manufacturing Company. (See Cole, Llewellyn W., assignor.)
Eakin, Elisha J., Estes, Miss. Speedometer. No. 1,049,063; Dec. 31; Gaz. vol. 185; p. 1265.
Eames, Gardner T., assignor to The G. T. Eames Company, Kalamazoo, Mich. Arbor press or ram. No. 1,038,543; Sept. 17; Gaz. vol. 182; p. 528.
Eames, George M., Bridgeport, Conn., assignor to The Singer Manufacturing Company. Sewing-machine. No. 1,018,653; Feb. 27; Sp. p. 5404; Gaz. vol. 175; p. 936.
Eames, John C., San Francisco, Cal. Trolley-wheel for electric cars. No. 1,022,374; Apr. 2; Sp. p. 1291; Gaz. vol. 177; p. 209.
Eamich, George F., *et al.* (See Milton, John, assignor.)
Earhart, Edwin S., Des Moines, Iowa. Flagstaff. No. 1,025,904; May 7; Sp. p. 1783; Gaz. vol. 178; p. 274.
Earhart, William S., Denver, Colo. Adjustable fixture-stud for electric-conduit outlet-boxes. No. 1,040,175; Oct. 1; Gaz. vol. 183; p. 169.
Earl, Alfred R., Toledo, Ohio. Furnace. No. 1,032,661; July 16; Gaz. vol. 180; p. 709.
Earl, Joseph, Stanstead, Quebec, Canada. Toy. No. 1,048,397; Dec. 24; Gaz. vol. 185; p. 997.
Earl & Wilson. (See Ramsey, Clearwater, and Temple, assignors.)
Earle, Elias, Townville, S. C. Corkscrew. No. 1,036,980; Aug. 27; Gaz. vol. 181; p. 977.
Earle, Oliver K. (See Madden, Frank J., assignor.)
Earle, Reginald W., assignor to N. Goodyear, New York, N. Y. Buoy. No. 1,026,977; May 21; Sp. p. 4178; Gaz. vol. 178; p. 713.
Earle, Richard B. (See Kyriakides and Earle.)
Earles, Phebe A., Roosevelt, Okla. Windrow attachment for mowing-machines. No. 1,020,810; Mar. 19; Sp. p. 3838; Gaz. vol. 176; p. 672.
Earnest, Mettie C., Eldorado, Tex. Cooking-stove. No. 1,046,059; Dec. 3; Gaz. vol. 185; p. 89.
Earnist, Cyrus C., Riceville, Iowa. Transmission-gearing. No. 1,036,981; Aug. 27; Gaz. vol. 181; p. 977.
Earnshaw, Joseph C., Germantown, Pa. Door-check. No. 1,014,817; Jan. 16; Sp. p. 3841; Gaz. vol. 174; p. 653.
Earnshaw, Louis P., *et al.* (See Kettering, Charles F., assignor.)
Eason, James. (See Beaton, Eason, and Wilson.)
East, Elvin, Sheffield, Ala. Spring-wheel. No. 1,024,977; Apr. 30; Sp. p. 6949; Gaz. vol. 177; p. 1221.
East Jersey Match Company. (See San, Morris, assignor.)
East Jersey Pipe Company, The. (See Parmelee, Charles L., assignor.)
East, John H. (See Swern, Ernest V., assignor.)
East, John W., Delphos, Ohio. Wave-motor. No. 1,032,996; July 16; Gaz. vol. 180; p. 821.
East, Joseph, Colfax, Wash. Disk harrow. No. 1,013,382; Jan. 2; Sp. p. 649; Gaz. vol. 174; p. 103.
East, Walter, Bournemouth, England, A. E. Dobbs, Carrickfergus, Ireland, and J. S. Howkins, Fulham, London, England. Thermostatic liquid-level regulator. No. 1,047,769; Dec. 17; Gaz. vol. 185; p. 757.
Eastburn, Walter D., Jenkintown, Pa. Clasp. No. 1,047,770; Dec. 17; Gaz. vol. 185; p. 758.
Eastburn, William B., Washington, D. C. Poison-indicator. No. 1,036,588; Aug. 27; Gaz. vol. 181; p. 847.
Easterling, George M., Blanket, Tex. Harrow and seeder. No. 1,038,100; Sept. 10; Gaz. vol. 182; p. 343.
Eastern Flexible Conduit Company. (See Hinsky, Anthony P., assignor.)
Eastern Sales Book Company. (See Carney, Edward, assignor.)
Eastes, James B., Konawa, Okla. Revolving lamp-support for autos. No. 1,025,966; May 14; Sp. p. 1916; Gaz. vol. 178; p. 330.
Eastham, Albert L., Beaumont, Tex., assignor to J. A. Wiggs, Chattanooga, Tenn. Wire-winding machine. No. 1,035,867; Aug. 20; Gaz. vol. 181; p. 563.
Eastham, William A., Nashville, Tenn. Can-labeler. No. 1,025,613; May 7; Sp. p. 1128; Gaz. vol. 178; p. 175.
Eastlack, Walter H., Merchantville, N. J. Non-refillable bottle. No. 1,016,679; Feb. 6; Sp. p. 1016; Gaz. vol. 175; p. 155.
Eastlund, Edvard, and J. A. Johnson, New York, N. Y. Tool for leveling saw-teeth. No. 1,028,448; June 4; Sp. p. 854; Gaz. vol. 179; p. 128.
Eastman, A. F. (See Hall, Benjamin K., assignor.)
Eastman, George, assignor to Eastman Kodak Company, Rochester, N. Y. Plate or film for color photography. No. 1,028,337; June 4; Sp. p. 590; Gaz. vol. 179; p. 89.
Eastman, Gerard L., and A. Hicks, Roslyn, N. Y. Apparatus for generating and storing acetylene. No. 1,028,558; June 4; Sp. p. 1081; Gaz. vol. 179; p. 164.
Eastman Kodak Co. (See Badgley, Samuel F., assignor.)
Eastman Kodak Co. (See Folmer, William F., assignor.)
Eastman Kodak Co. (See Linder, John, assignor.)
Eastman Kodak Co. (See Ruttan and Hutchings, assignors.)
Eastman Kodak Company. (See Barnes, Frederick W., assignor.)
Eastman Kodak Company. (See Cummings, John S., assignor.)
Eastman Kodak Company. (See Eastman, George, assignor.)
Eastman Kodak Company. (See Hutchings, Charles E., assignor.)
Eastman, Raymond W., Alva, Okla. Removable automobile-top. No. 1,032,997; July 16; Gaz. vol. 180; p. 822.
Eastman, Walter W., Hill, N. H. Lantern-holder. No. 1,042,898; Oct. 29; Gaz. vol. 183; p. 1223.
Eastman, William E., Boston, Mass. Spring suspension for vehicles. No. 1,048,510; Dec. 31; Gaz. vol. 185; p. 1074.
Easton, Frank B., New York, N. Y. Screen-bed. No. 1,040,909; Oct. 8; Gaz. vol. 183; p. 449.
Easton, William S., Babylon, assignor of one-half to M. Englander, New York, N. Y. Fireproof cabinet. No. 1,032,351; July 9; Gaz. vol. 180; p. 560.
Eastwood, Arthur C., Cleveland, Ohio. Lifting-magnet. No. 1,015,728; Jan. 23; Sp. p. 5812; Gaz. vol. 174; p. 991.
Eastwood, Arthur C., assignor to The Electric Controller and Manufacturing Company, Cleveland, Ohio. Electric controller. No. 1,013,754; Jan. 2; Sp. p. 1466; Gaz. vol. 174; p. 232.
Eastwood, Arthur C., assignor to The Electric Controller and Manufacturing Company, Cleveland, Ohio. Electric controller. No. 1,014,625; Jan. 9; Sp. p. 3369; Gaz. vol. 174; p. 557.
Eastwood, Arthur C., assignor to The Electric Controller and Manufacturing Company, Cleveland, Ohio. Electric controller. No. 1,040,292; Oct. 8; Gaz. vol. 183; p. 238.
Eastwood, James, assignor to The Benjamin Eastwood Company, Paterson, N. J. Gearing. No. 1,014,957; Jan. 16; Sp. p. 4175; Gaz. vol. 174; p. 702.
Eastwood, John N., Carleton Place, Ontario, Canada. Attachment for wire-mesh bed-springs or the like. No. 1,038,863; Sept. 17; Gaz. vol. 182; p. 640.
Eastwood-Park Company. (See Ford, Kelsie B., assignor.)
Eaton, Albert N., Omaha, Nebr. Fountain-tank. No. 1,028,998; June 11; Sp. p. 2028; Gaz. vol. 179; p. 348.
Eaton, Albert N., Omaha, Nebr. Sectionized tank. No. 1,029,745; June 18; Sp. p. 3645; Gaz. vol. 179; p. 643.
Eaton, Charles W., Chicago, Ill. Concrete-supplying apparatus. No. 1,040,656; Oct. 8; Gaz. vol. 183; p. 368.
Eaton, Clarence L., Boston, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Seam-trimming and welt-beating machine. No. 1,018,039; Feb. 20; Sp. p. 4011; Gaz. vol. 175; p. 694.
Eaton, Crane & Pike Company. (See Davis, Ulysses C., assignor.)
Eaton, Drusilla E., Syracuse, N. Y. Toy figure. No. 1,023,420; Apr. 16; Sp. p. 3555; Gaz. vol. 177; p. 633.
Eaton, Emery W., assignor to Barrett & Lawrence, Incorporated, Philadelphia, Pa. Hydrochronograph. No. 1,014,134; Jan. 9; Sp. p. 2330; Gaz. vol. 174; p. 389.
Eaton, George M., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Articulated locomotive. No. 1,036,811; Aug. 27; Gaz. vol. 181; p. 920.
Eaton, George M., Wilkinsburg, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Electric vehicle-motor and means for suspending the same. No. 1,046,748; Dec. 10; Gaz. vol. 185; p. 372.
Eaton, James F. (See Eaton, John H., assignor.)
Eaton, John. (See Murphy and Eaton.)
Eaton, John, Schenectady, N. Y., assignor to General Electric Company. Motor-control system. No. 1,045,959; Dec. 3; Gaz. vol. 185; p. 56.
Eaton, John H., assignor of one-third to J. F. Eaton, Rochester, N. Y. Internal-combustion engine. No. 1,037,605; Sept. 3; Gaz. vol. 182; p. 143.
Eaton, Owen H., Merced, Cal. Rotary steam-engine. No. 1,038,321; Sept. 10; Gaz. vol. 182; p. 416.
Eaton, Robert, and G. L. Keith, assignors to Gillett & Eaton, Lake City, Minn. Independent inside valve-drive for steam-engines. No. 1,039,037; Sept 17; Gaz. vol. 182; p. 696.
Eaton, William G. (See MacFarland and Eaton.)
Eaton, William G., Boston, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Edge-chamfering machine. No. 1,029,178; June 11; Sp. p. 2400; Gaz. vol. 179; p. 409.
Eaton, William G., Boston, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Sole-rounding machine. No. 1,048,511; Dec. 31; Gaz. vol. 185; p. 1074.
Eaton, William S., Sag Harbor, N. Y. Engraving-machine. No. 1,039,712; Oct. 1; Gaz. vol. 183; p. 14.
Eaton, William S., Sag Harbor, N. Y. Etching-machine. No. 1,039,713; Oct. 1; Gaz. vol. 183; p. 14.
Eaton, William S., Sag Harbor, N. Y. Engraving and similar machine. No. 1,039,714; Oct. 1; Gaz. vol. 183; p. 15.
Eaves, Augustus J. (See Davis and Eaves.)
Ebbert, Albert E., Greencastle, Pa. Corn harvester and shocker. No. 1,037,745; Sept. 3; Gaz. vol. 182; p. 189.
Ebberts, William M. (See Zenk, Charles, assignor.)
Ebbinghaus, Ernst. (See Eifler, Johan G., assignor.)
Ebbley, Norman, Wallace, Idaho. Muck-shovel. No. 1,029,799; June 18; Sp. p. 3758; Gaz. vol. 179; p. 662.

Alphabetical list of patentees—Continued.

Ebbley, Norman, Wallace, Idaho. Boring tunnels. No. 1,032,049; July 9; Gaz. vol. 180; p. 457.
Ebbs, Robert E., and J. A. McCuller, Gurdon, Ark. Nut-lock. No. 1,020,386; Mar. 12; Sp. p. 2908; Gaz. vol. 176; p. 492.
Ebeling, Charles W., Elm Grove, W. Va. Dredger for pulverulent material. No. 1,034,598; Aug. 6; Gaz. vol. 181; p. 65.
Ebener, Fritz. (See Dickel and Ebener.)
Eberhardt, Frederick L., assignor to Gould & Eberhardt, Newark, N. J. Multiple-gear-cutting machine. No. 1,030,291; June 25; Sp. p. 4852; Gaz. vol. 179; p. 869.
Eberhardt, Frederick L., and W. F. Zimmermann, Newark, N. J. Universal gear-cutter. No. 1,028,815; June 4; Sp. p. 1599; Gaz. vol. 179; p. 250.
Eberhardt, Frederick L., and W. F. Zimmermann, assignors to Gould & Eberhardt, Newark, N. J. Cutting helical gear-wheels. No. 1,036,199; Aug. 20; Gaz. vol. 181; p. 679.
Eberhardt, Frederick L., and W. F. Zimmermann, assignors to Gould & Eberhardt, Newark, N. J. Gear-roughing machine. No. 1,047,926; Dec. 24; Gaz. vol. 185; p. 840.
Eberhardt, Philip, Arlington, Mass. Retaining device for presses. No. 1,027,189; May 21; Sp. p. 4666; Gaz. vol. 178; p. 785.
Eberhart, William C., and S. Glaser, Sayre, Pa. Roller-bearing hub. No. 1,022,307; Apr. 2; Sp. p. 1154; Gaz. vol. 177; p. 185.
Eberle, Frank J., New York, N. Y. Sheet-feeding mechanism for printing-presses. No. 1,018,815; Feb. 27; Sp. p. 5750; Gaz. vol. 175; p. 992.
Eberle, Frank L. (See Watts and Eberle.)
Eberley, Frank L., *et al.* (See Eberley, George W., assignor.)
Eberley, George W., assignor of one-third to F. L. Eberley, Whitesboro, and one-third to Mohawk Valley Cap Factory, Utica, N. Y. Spacer. No. 1,019,139; Mar. 5; Sp. p. 298; Gaz. vol. 176; p. 46.
Eberman, William A. (See Boomhower and Eberman.)
Ebersole, Cyrus P., assignor to American Automotoneer Company, Philadelphia, Pa. Controller-regulator. No. 1,024,769; Apr. 30; Sp. p. 6527; Gaz. vol. 177; p. 1149.
Eblen, William H., Windrock, Tenn. Obstetrical appliance. No. 1,031,841; July 9; Gaz. vol. 180; p. 387.
Ebling, Charles B., Dauberville, Pa. Broom-holder. No. 1,047,394; Dec. 17; Gaz. vol. 185; p. 624.
Ebner, Hermann J., Paige, Tex. Milk-strainer and support therefor. No. 1,015,946; Jan. 30; Sp. p. 6278; Gaz. vol. 174; p. 1093.
Ebsary, William H., Buffalo, N. Y. Wearing-apparel. No. 1,041,711; Oct. 15; Gaz. vol. 183; p. 752.
Eby, John A. (See Johnson and Eby.)
Ecaubert, Frederic, New York, N. Y. Escapement-regulator. No. 1,023,140; Apr. 16; Sp. p. 2995; Gaz. vol. 177; p. 539.
Ecaubert, Frederic, New York, N. Y. Separating substances. No. 1,046,568; Dec. 10; Gaz. vol. 185; p. 308.
Eccleston, Lee and R., Gregson, Mont. Trap. No. 1,020,029; Mar. 12; Sp. p. 2180; Gaz. vol. 176; p. 375.
Eccleston, Ross. (See Eccleston, Lee and R.)
Eccleston, S Spencer, assignor to M. A. Clark, Syracuse, N. Y. Fruit-picker. No. 1,034,989; Aug. 6; Gaz. vol. 181; p. 196.
Echard, Andrew C., and G. S. Alderson, Alderson, W. Va. Railway-signal. No. 1,019,885; Mar. 12; Sp. p. 1877; Gaz. vol. 176; p. 328.
Echard, Andrew C., and J. A. Hutchison, Alderson, W. Va. Milk-can-lid fastener. No. 1,046,569; Dec. 10; Gaz. vol. 185; p. 308.
Echols, Francis G., assignor to Pratt & Whitney Company, Hartford, Conn. Drill and socket construction. No. 1,020,544; Mar. 19; Sp. p. 3254; Gaz. vol. 176; p. 582.
Echternach, Elmer G., Seattle, Wash. Clothes-line. No. 1,046,570; Dec. 10; Gaz. vol. 185; p. 308.
Echternach, Harry S., assignor to V. A. Meck, Strasburg, Pa. Carbureter-adjusting device. No. 1,029,111; June 11; Sp. p. 2263; Gaz. vol. 179; p. 387.
Eckardt, August H., St. Paul, Minn. Attachment for mowing-machines. No. 1,026,738; May 21; Sp. p. 3626; Gaz. vol. 178; p. 630.
Eckart, George F., Chicago, Ill. Skid-preventing means for vehicle-tires. No. 1,045,533; Nov. 26; Gaz. vol. 184; p. 958.
Eckart, George F., Chicago, Ill., assignor to Automatic Stemmer Company. Tobacco-stemming machine. No. 1,032,192; July 9; Gaz. vol. 180; p. 505.
Eckart, George F., assignor to Automatic Stemmer Co., Chicago, Ill. Tobacco-stemming machine. No. 1,044,506; Nov. 19; Gaz. vol. 184; p. 568.
Eckberg, Oscar, Grand Rapids, Mich. Antirattler for vehicle-tops. No. 1,047,184; Dec. 17; Gaz. vol. 185; p. 549.
Eckert, Fred C., Waukesha, Wis. Key. No. 1,020,892; Mar. 19; Sp. p. 4010; Gaz. vol. 176; p. 699.
Eckert, William A., Buffalo, N. Y. Bottle-stopper. No. 1,027,112; May 21; Sp. p. 4517; Gaz. vol. 178; p. 760.
Eckert, William F., and W. C. Whitcomb, Rochelle, Ill., assignors to George D. Whitcomb Company. Gearing. No. 1,024,562; Apr. 30; Sp. p. 6080; Gaz. vol. 177; p. 1077.
Eckhard, John, assignor to Hercules Motor Truck Company, Boston, Mass. Transmission-gearing. No. 1,034,349; July 30; Gaz. vol. 180; p. 1347.
Eckhart, Emma B., Philadelphia, Pa. Hat-pin protector. No. 1,024,563; Apr. 30; Sp. p. 6084; Gaz. vol. 177; p. 1077.
Eckman, Gustavus A., Chicago, Ill. Candle holding and protecting device. No. 1,034,434; Aug. 6; Gaz. vol. 181; p. 12.
Eckre, Olof A., Kindred, N. D. Spring-fork for bicycles. No. 1,027,599; May 28; Sp. p. 5502; Gaz. vol. 178; p. 962.
Eclipse Fuel Engineering Company. (See McKee, Garnet W., assignor.)
Economy Car Heating Company, The. (See Coggin, Frank F., assignor.)
Economy Fuse & Manufacturing Co. (See Mallory, Edward B., assignor.)
Economy Stove Company, The. (See Nieberding and Coulston, assignors.)
Ed. E. Squier Company. (See Gracey and Squier, assignors.)
Eddins, Edward R. (See Sparks and Eddins.)
Eddins, Sextus A., Charlottesville, Va., assignor to O. A. Miller Treeing Machine Company, Portland, Me. Machine for breaking-in shoes. No. 1,023,510; Apr. 16; Sp. p. 3736; Gaz. vol. 177; p. 661.
Eddleman, Dudley E., Weatherford, and F. H. McFarland, assignors to Standard Bale Wire Buckle Co., Fort Worth, Tex. Bale-tie buckle. No. 1,033,561; July 23; Gaz. vol. 180; p. 1050.
Eddy, Albert J., assignor of one-half to F. W. Gaskin, Long Branch, N. J. Blowpipe-torch. No. 1,044,362; Nov. 12; Gaz. vol. 184; p. 490.
Eddy, Arthur J., *et al.* (See Harris, Warren, assignor.)
Eddy, Howard E. (See Blanchard, Crocker, and Eddy.)
Eddy, Howard E., Arlington, Md., and E. B. Crocker, Bridgeport, Conn. Micrometer-gage. No. 1,027,827; May 28; Sp. p. 5983; Gaz. vol. 178; p. 1038.
Eddy, Schuyler C., Kalamazoo, assignor to J. F. Watson, Sturgis, Mich. Adjustable chair. No. 1,046,571; Dec. 10; Gaz. vol. 185; p. 308.
Edel, Hermann J., assignor to Gesellschaft für Maschinen- und Metall-Industrie mit Beschränkter Haftung, Neheim-on-the-Ruhr, Germany. Providing metallic pins with head-plates. No. 1,034,091; July 30; Gaz. vol. 180; p. 1258.
Edeleanu, Lazar, Ploesti, Roumania. Drying agent for gases. No. 1,041,608; Oct. 15; Gaz. vol. 183; p. 715.
Eden Company, The. (See Clarke, George L., assignor.)
Eden, Harold W., Hinsdale, assignor to Brokaw-Eden Mfg. Co., Chicago, Ill. Gearing. No. 1,037,746; Sept. 3; Gaz. vol. 182; p. 189.
Edenfeldt, Carl, assignor of one-third to V. R. Nims and one-third to V. R. Woodward, Seattle, Wash. Change-delivering device. No. 1,039,913; Oct. 1; Gaz. vol. 183; p. 81.
Edens, John, assignor to H. F. Brammer Manufacturing Company, Davenport, Iowa. Gearing. No. 1,017,251; Feb. 13; Sp. p. 2279; Gaz. vol. 175; p. 387.
Eder, Charles H. (See Nettenstrom, David, assignor.)
Eder, Frank J., St. Paul, Minn. Mail-collector. No. 1,019,029; Mar. 5; Sp. p. 28; Gaz. vol. 176; p. 8.
Eder, Theodore, Perkins, Cal., assignor to the People of the United States. Spraying device. No. 1,046,572; Dec. 10; Gaz. vol. 185; p. 309.
Edes, Louis P., Worcester, Mass. Lock for elevator-doors. No. 1,035,174; Aug. 13; Gaz. vol. 181; p. 289.
Edgar Allen American Manganese Steel Company. (See Black, Edward S., assignor.)
Edgar Allen American Manganese Steel Company. (See McKee and Vilas, assignors.)
Edgar Allen American Manganese Steel Company. (See Pemberton, Edward L., assignor.)
Edgar, Andrew C., Newton Square, assignor to A. C. Mott, Philadelphia, Pa. House-heating boiler. No. 1,044,363; Nov. 12; Gaz. vol. 184; p. 490.
Edgar, Blanchard C. (See Clapp and Edgar.)
Edgar, Charles E., Kansas City, Mo. Can-filler. No. 1,025,383; May 7; Sp. p. 620; Gaz. vol. 178; p. 96.
Edgar, Clarence W., Los Angeles, Cal. Dry concentrator. No. 1,016,680; Feb. 6; Sp. p. 1018; Gaz. vol. 175; p. 155.
Edgar, Clarence W., Los Angeles, Cal. Heating and ventilating apparatus. No. 1,039,664; Sept. 24; Gaz. vol. 182; p. 933.
Edgar, Grant E. (See Bedell and Edgar.)
Edgar, William T. (See Horstmann and Edgar.)
Edge, Charles N. (See Yoshino and Edge.)
Edge, Walter S., New York, N. Y. Automatic flood-gate. No. 1,039,072; Sept. 17; Gaz. vol. 182; p. 706.
Edgecomb, Henry R. (See Crouse and Edgecomb.)
Edgerton, Charles, Philadelphia, Pa. Apparatus for extracting grease and oils. No. 1,017,518; Feb. 13; Sp. p. 2841; Gaz. vol. 175; p. 479.

Alphabetical list of patentees—Continued.

Edgerton, Charles, Philadelphia, Pa. Apparatus for extracting grease and oils. No. 1,024,838; Apr. 30; Sp. p. 6674; Gaz. vol. 177; p. 1174.
Edgington, George F., Jeffersonville, Ind. Attachment for wagon-bodies. No. 1,014,579; Jan. 9; Sp. p. 3244; Gaz. vol. 174; p. 541.
Edgington, George F., Jeffersonville, Ind. Garbage-cart. No. 1,047,009; Dec. 10; Gaz. vol. 185; p. 457.
Edgington, James S., near Bellefontaine, Ohio. Railway-spike lock. No. 1,048,512; Dec. 31; Gaz. vol. 185; p. 1075.
Edgington, William F., assignor of one-half to A. Murray, Springfield, Ohio. Jack for tightening antiskid-chains. No. 1,026,499; May 14; Sp. p. 3105; Gaz. vol. 178; p. 513.
Edick, George, Albuquerque, N. Mex. Rail-joint. No. 1,039,038; Sept. 17; Gaz. vol. 182; p. 697.
Edick, George, Albuquerque, N. Mex. Railway-rail fastener. No. 1,048,398; Dec. 24; Gaz. vol. 185; p. 997.
Edison, Karl, assignor of one-half to J. B. Moschenross, New York, N. Y. Electric lamp. No. 1,014,958; Jan. 16; Sp. p. 4176; Gaz. vol. 174; p. 703.
Edison Storage Battery Company. (See Edison, Thomas A., assignor.)
Edison Storage Battery Company. (See Holland, Walter E., assignor.)
Edison, Thomas A. (See Aiken, Edward L., assignor.)
Edison, Thomas A. (See Aylsworth, Jonas W., assignor.)
Edison, Thomas A. (See Aylsworth and Aiken, assignors.)
Edison, Thomas A. (See Brown, Leslie A., assignor.)
Edison, Thomas A. (See Carter, Charles P., assignor.)
Edison, Thomas A. (See Davis, Oliver P. M., assignor.)
Edison, Thomas A. (See Durand, Nelson C., assignor.)
Edison, Thomas A. (See Dyer, Frank L., assignor.)
Edison, Thomas A. (See Dyer and Weber, assignors.)
Edison, Thomas A. (See Dyke, Herbert H., assignor.)
Edison, Thomas A. (See Hibbard, Charles L., assignor.)
Edison, Thomas A. (See Holland, Newman H., assignor.)
Edison, Thomas A. (See Hopkins, Edward P., assignor.)
Edison, Thomas A. (See Lewis and Edison.)
Edison, Thomas A. (See Pierman, Alexander N., assignor.)
Edison, Thomas A. (See Saltzman, Auguste L., assignor.)
Edison, Thomas A. (See Schiffl, Charles, assignor.)
Edison, Thomas A. (See Seeley and Durand, assignors.)
Edison, Thomas A. (See Weber, Peter, assignor.)
Edison, Thomas A. (See Wurth, Albert F., assignor.)
Edison, Thomas A. (See Wurth, Charles N., assignor.)
Edison, Thomas A., Llewellyn Park, Orange, N. J. Bearing. No. 1,013,869; Jan. 9; Sp. p. 1738; Gaz. vol. 174; p. 300.
Edison, Thomas A., Llewellyn Park, Orange, N. J. Giant rolls. No. 1,014,818; Jan. 16; Sp. p. 3842; Gaz. vol. 174; p. 653.
Edison, Thomas A., Llewellyn Park, West Orange, N. J. Electroplating apparatus. No. 1,016,875; Feb. 6; Sp. p. 1415; Gaz. vol. 175; p. 219.
Edison, Thomas A., Llewellyn Park, West Orange, N. J. Crushing and separating fine materials. (Reissue.) No. 13,382; Mar. 12; Sp. p. 2923; Gaz. vol. 176; p. 495.
Edison, Thomas A., Llewellyn Park, Orange, N. J. Discharging apparatus for belt conveyers. (Reissue.) No. 13,434; June 25; Sp. p. 6457; Gaz. vol. 179; p. 1076.
Edison, Thomas A., Llewellyn Park, Orange, N. J. Conveyer. No. 1,041,756; Oct. 22; Gaz. vol. 183; p. 804.
Edison, Thomas A., Llewellyn Park, assignor to Edison Storage Battery Company, West Orange, N. J. Means and method for preventing depletion of electrolyte. No. 1,016,874; Feb. 6; Sp. p. 1413; Gaz. vol. 175; p. 219.
Edison, Thomas A., Llewellyn Park, Orange, assignor to Edison Storage Battery Company, West Orange, N. J. Storage battery. No. 1,034,002; July 30; Gaz. vol. 180; p. 1227.
Edison, Thomas A., Llewellyn Park, Orange, assignor to Edison Storage Battery Company, West Orange, N. J. Battery-cell container. No. 1,034,003; July 30; Gaz. vol. 180; p. 1227.
Edison, Thomas A., Llewellyn Park, assignor to Edison Storage Battery Company, West Orange, N. J. Storage battery. No. 1,036,471; Aug. 20; Gaz. vol. 181; p. 773.
Edison, Thomas A., Llewellyn Park, Orange, assignor to Thomas A. Edison, Incorporated, West Orange, N. J. Phonograph-reproducer. No. 1,019,440; Mar. 5; Sp. p. 1010; Gaz. vol. 176; p. 148.
Edison, Thomas A., Llewellyn Park, assignor to Thomas A. Edison, Incorporated, West Orange, N. J. Sound-recording apparatus. No. 1,019,441; Mar. 5; Sp. p. 1011; Gaz. vol. 176; p. 148.
Edison, Thomas A., Llewellyn Park, assignor to Thomas A. Edison, Incorporated, West Orange, N. J. Phonograph-reproducer. No. 1,020,485; Mar. 19; Sp. p. 3125; Gaz. vol. 176; p. 563.
Edison, Thomas A., Llewellyn Park, Orange, assignor, by mesne assignments, to Thomas A. Edison, Incorporated, West Orange, N. J. Phonographic recording-stylus. No. 1,024,839; Apr. 30; Sp. p. 6677; Gaz. vol. 177; p. 1175.
Edison, Thomas A., Llewellyn Park, assignor to Thomas A. Edison, Incorporated, West Orange, N. J. Phonographic apparatus. No. 1,036,470; Aug. 20; Gaz. vol. 181; p. 773.
Edison, Thomas A., Llewellyn Park, assignor to Thomas A. Edison, Incorporated, West Orange, N. J. Phonograph-stylus. No. 1,041,983; Oct. 22; Gaz. vol. 183; p. 883.
Edison, Thomas A., Llewellyn Park, Orange, assignor to Thomas A. Edison, Incorporated, West Orange, N. J. Phonograph-reproducer. No. 1,046,159; Dec. 3; Gaz. vol. 185; p. 124.
Edison, Thomas A., assignor, by mesne assignments, to Thomas A. Edison, Incorporated, West Orange, N. J. Phonograph determining device. No. 1,046,414; Dec. 3; Gaz. vol. 185; p. 216.
Edler, Franz P., Chicago, Ill. Window-screen. No. 1,030,985; July 2; Gaz. vol. 180; p. 47.
Edlund, Andrew G., and A. Leafgren, Axtell, Nebr. Tire-protector. No. 1,039,665; Sept. 24; Gaz. vol. 182; p. 933.
Edman, John, assignor to A. M. Hovland, Minneapolis, Minn. Resilient wheel-rim. No. 1,048,054; Dec. 24; Gaz. vol. 185; p. 881.
Edman, Nels G., Chicago, Ill. Newspaper-box. No. 1,018,174; Feb. 20; Sp. p. 4322; Gaz. vol. 175; p. 742.
Edmond-Simonnet, Marie A. A., La Garenne, Seine, France. Machine-tool for clenching eyelets. No. 1,018,888; Feb. 27; Sp. p. 5892; Gaz. vol. 175; p. 1016.
Edmonds, Eugene A., Mare Island, Cal. Search-light projector. No. 1,047,395; Dec. 17; Gaz. vol. 185; p. 625.
Edmonds, Frank M., and R. J. Goodnow, Boston, Mass.; said Edmonds assignor to said Goodnow. Gasolene-measuring rule. No. 1,019,442; Mar. 5; Sp. p. 1014; Gaz. vol. 176; p. 148.
Edmonds, George W., *et al.* (See Wisner, Andrew J., assignor.)
Edmonds, John E., Athol, Kans. Hay-rack. No. 1,018,175; Feb. 20; Sp. p. 4323; Gaz. vol. 175; p. 742.
Edmonds, Samuel O., New York, N. Y., assignor to A. B. Dick Company, Chicago, Ill. Printing-machine. No. 1,031,329; July 2; Gaz. vol. 180; p. 169.
Edmonds, Samuel P., Catonsville, Md. Life-saving appliance. No. 1,045,382; Nov. 26; Gaz. vol. 184; p. 902.
Edmonds, Samuel P., Catonsville, Md. Life-saving appliance. (Reissue.) No. 13,503; Dec. 31; Gaz. vol. 185; p. 1356.
Edmonds, Walter D. (See Ladoff, Isador, assignor.)
Edmonds, Walter D., *et al.* (See Ladoff, Isador, assignor.)
Edmondson, Alfred E., Chicago, Ill. Envelop-fastener. No. 1,030,507; June 25; Sp. p. 5364; Gaz. vol. 179; p. 947.
Edmonson, Alva T., Chicago, Ill. Separator and volatilizer. No. 1,036,812; Aug. 27; Gaz. vol. 181; p. 920.
Edmonson, Edgar, Greenfield, Ohio. Casket truck or bier. No. 1,023,070; Apr. 9; Sp. p. 2802; Gaz. vol. 177; p. 476.
Edmonson, Wiley, Bicknell, Ind. Spike-extractor. No. 1,033,682; July 23; Gaz. vol. 180; p. 1089.
Edmonston, Earl T., Pittsburgh, Pa. Knockdown balcony. No. 1,049,064; Dec. 31; Gaz. vol. 185; p. 1266.
Edmund Boehm & Co. (See Rein, Robert, assignor.)
Edmunds, John, Shamokin, Pa. Lawn-mower. No. 1,026,204; May 14; Sp. p. 2463; Gaz. vol. 178; p. 413.
Edmunds & Jones Mfg. Co., The. (See Godley, Charles E., assignor.)
Edmunds & Jones Mfg. Co., The. (See Jones, William T., assignor.)
Edmundson, Isaac M., McKeesport, Pa. Pipe-wrench. No. 1,021,584; Mar. 26; Sp. p. 5495; Gaz. vol. 176; p. 987.
Edouard Dubied & Cie. (See Dubied, Edouard, assignor.)
Edqvist, Olof F., Denver, Colo. Rotary explosive-engine. No. 1,026,911; May 21; Sp. p. 4019; Gaz. vol. 178; p. 690.
Edsall, William H., Wallingford, Conn. Curtain-rod bracket. No. 1,019,232; Mar. 5; Sp. p. 501; Gaz. vol. 176; p. 79.
Edsall, William H., and F. L. Lathrop, assignors to H. L. Judd Company, Wallingford, Conn. Curtain-rod socket. No. 1,036,813; Aug. 27; Gaz. vol. 181; p. 921.
Edson, Mark A., assignor to The Caloric Company, Janesville, Wis. Radiator-heater. No. 1,018,414; Feb. 27; Sp. p. 4836; Gaz. vol. 175; p. 856.
Edström, Arvid E., and O. B. Andersson, assignors to A. Edström & Co., Umea, Sweden. Combined folding bedstead and chair. No. 1,021,360; Mar. 26; Sp. p. 4988; Gaz. vol. 176; p. 910.
Edstrom, Henrik H., Pearl River, N. Y. Tap-wrench. No. 1,020,598; Mar. 19; Sp. p. 3384; Gaz. vol. 176; p. 601.
Edward Lloyd Limited. (See Hutchison, Robert G., assignor.)
Edward Miller & Company. (See Homan, William C., assignor.)
Edwards, Arthur H., Stoke Newington, London, England. Aeroplane or the like or analogous machine or device. No. 1,023,556; Apr. 16; Sp. p. 3827; Gaz. vol. 177; p. 675.

Alphabetical list of patentees—Continued.

Edwards, Arthur H., Sydney, New South Wales, Australia. Fork attachment for removing food or other material impaled thereon. No. 1,036,472; Aug. 20; Gaz. vol. 181; p. 773.
Edwards, Bruce. (See Morrow, John W., assignor.)
Edwards, Bruce V., Bayonne, N. J. Wrapping-machine. No. 1,023,824; Apr. 23; Sp. p. 4365; Gaz. vol. 177; p. 789.
Edwards & Co. (See Lungen, Adam, assignor.)
Edwards, Darsie E., Clinton, Mo. Pole-truck. No. 1,048,951; Dec. 31; Gaz. vol. 185; p. 1226.
Edwards, Ernest, and G. W. Briggs, Rigby, Idaho. Electric switch mechanism. No. 1,044,507; Nov. 19; Gaz. vol. 184; p. 569.
Edwards, Frank W., Logansport, Ind., assignor to The Chicago Lubricator Company, Chicago, Ill. Sight-feed condensation displacement-lubricator. No. 1,032,662; July 16; Gaz. vol. 180; p. 710.
Edwards, Frank W., Logansport, Ind., assignor to The Chicago Lubricator Company, Chicago, Ill. Sight-feed for lubricators. (Reissue.) No. 13,474; Oct. 8; Gaz. vol. 183; p. 478.
Edwards, George, Scranton, Pa. Railway-tie. No. 1,031,432; July 2; Gaz. vol. 180; p. 204.
Edwards, George F., assignor of one-half to M. D. Tilson, Texarkana, Tex. Relief-valve gear. No. 1,039,914; Oct. 1; Gaz. vol. 183; p. 81.
Edwards, Harry E., assignor of fifty-two one-hundredths to W. A. Thomas, Niles, Ohio. Clutch. No. 1,034,893; Aug. 6; Gaz. vol. 181; p. 165.
Edwards, Helena H., Pasadena, Cal. Combined book rest and receptacle. No. 1,035,430; Aug. 13; Gaz. vol. 181; p. 379.
Edwards, Herbert A., London, England. Manufacture of cased metal pins for artificial teeth. No. 1,019,233; Mar. 5; Sp. p. 502; Gaz. vol. 176; p. 79.
Edwards, Isaac L., assignor of two-fifths to M. D. Jones and two-fifths to F. M. Price, Aurora, Ill. Rail-joint. No. 1,031,330; July 2; Gaz. vol. 180; p. 170.
Edwards, James B., assignor of one-half to Rowland & Company, Columbia, S. C. Locomotive driving and truck box. No. 1,014,580; Jan. 9; Sp. p. 3246; Gaz. vol. 174; p. 541.
Edwards, John C., Brookline, Mass., assignor to A. Kimball Company, New York, N. Y. Marking-ticket. No. 1,037,823; Sept. 3; Gaz. vol. 182; p. 215.
Edwards, Ogden E., Jr., New York, N. Y., assignor to Cheatham Electric Switching Device Company, Louisville, Ky. Automatic switch for trolley-roads. No. 1,035,115; Aug. 6; Gaz. vol. 181; p. 237.
Edwards, Oliver C., Jr., Troy, N. Y. Caisson. No. 1,013,870; Jan. 9; Sp. p. 1738; Gaz. vol. 174; p. 300.
Edwards, Oliver C., Jr., Troy, N. Y. Caisson. No. 1,014,626; Jan. 9; Sp. p. 3372; Gaz. vol. 174; p. 558.
Edwards, Oliver C., Jr., Troy, N. Y. Caisson. No. 1,023,825; Apr. 23; Sp. p. 4383; Gaz. vol. 177; p. 789.
Edwards, Oliver C., Jr., Troy, N. Y. Caisson. No. 1,025,614; May 7; Sp. p. 1131; Gaz. vol. 178; p. 176.
Edwards, Oliver M. (See Axe, Roy T., assignor.)
Edwards, Oliver M. (See Chaffee, Edward F., assignor.)
Edwards, Oliver M., Syracuse, N. Y. Window. No. 1,043,045; Oct. 29; Gaz. vol. 183; p. 1274.
Edwards, Otto. (See Keck and Edwards.)
Edwards, Richard J., Galena, Ill. Vehicle-spring. No. 1,022,228; Apr. 2; Sp. p. 1011; Gaz. vol. 177; p. 162.
Edwards, Stillman B., Villisca, Iowa. Spring-wheel. No. 1,024,191; Apr. 23; Sp. p. 5224; Gaz. vol. 177; p. 915.
Edwards, Thomas, Ballarat, Victoria, Australia. Ore-roasting furnace. No. 1,036,814; Aug. 27; Gaz. vol. 181; p. 921.
Edwards, Thomas H., Buffalo, N. Y. Adjustable window-shade bracket. No. 1,039,666; Sept. 24; Gaz. vol. 182; p. 933.
Edwards, Victor E., assignor to Morgan Construction Company, Worcester, Mass. Rolling-mill. No. 1,031,055; July 2; Gaz. vol. 180; p. 74.
Edwards, Victor E., assignor to Morgan Construction Company, Worcester, Mass. Metal-cutting shears. No. 1,031,056; July 2; Gaz. vol. 180; p. 74.
Edwards, Victor E., assignor to Morgan Construction Company, Worcester, Mass. Rolling-mill. No. 1,040,293; Oct. 8; Gaz. vol. 183; p. 239.
Edwards, Victor E., assignor to Morgan Construction Company, Worcester, Mass. Rolling-mill. No. 1,041,757; Oct. 22; Gaz. vol. 183; p. 804.
Edwards, Victor E., assignor to Morgan Construction Company, Worcester, Mass. Metal-cutting shears. No. 1,047,185; Dec. 17; Gaz. vol. 185; p. 549.
Edwards, Victor E., and J. R. George, assignors to Morgan Construction Company, Worcester, Mass. Conveyer for metal rods. No. 1,031,057; July 2; Gaz. vol. 180; p. 75.
Edwards, Victor E., and J. R. George, assignors to Morgan Construction Company, Worcester, Mass. Conveyer for metal rods. No. 1,031,058; July 2; Gaz. vol. 180; p. 75.
Edwards, William C., Jr., Kansas City, Mo. Means and apparatus for concrete construction. No. 1,013,591; Jan. 2; Sp. p. 1077; Gaz. vol. 174; p. 174.
Edwards, William C., Jr., Kansas City, Mo. Reinforced concrete structure. No. 1,013,592; Jan. 2; Sp. p. 1081; Gaz. vol. 174; p. 174.
Edwards, William C., Jr., Kansas City, Mo. Fireproof structure. No. 1,041,048; Oct. 15; Gaz. vol. 183; p. 530.
Edwards, William C., Jr., Kansas City, Mo. Reinforcement for concrete floors, floor-beams, girders, and the like. No. 1,045,006; Nov. 19; Gaz. vol. 184; p. 744.
Edwards, William F., Ashland, Ohio. Condenser. No. 1,017,519; Feb. 13; Sp. p. 2847; Gaz. vol. 175; p. 480.
Edwards, William R. (See Heinsohn and Edwards.)
Edwards, William R. (See Heinsohn, Edwards, and Klaus.)
Edwards, William S., Bridport, England. Stretching device for lawn-tennis nets. No. 1,023,928; Apr. 23; Sp. p. 4631; Gaz. vol. 177; p. 824.
Edwin B. Stimpson Company. (See Stimpson, Edwin B., assignor.)
Edwin Harrington, Son & Co. (See Harrington, Arthur M., assignor.)
Edwin Harrington, Son & Co. (See Scott and Harrington, assignors.)
Effenbeck, Otis J., Stockton, Cal. Hydrocarbon-burner. No. 1,038,734; Sept. 17; Gaz. vol. 182; p. 595.
Effinger, Magdalena, Midland, Pa. Rail joint and fastener. No. 1,031,059; July 2; Gaz. vol. 180; p. 76.
Effront, Jean, Brussels, Belgium. Manufacture of ketones. No. 1,048,814; Dec. 31; vol. 185; p. 1181.
Egan, Edward J., *et al.* (See Elkin, Warren, assignor.)
Egan, Patrick. (See Hipwood and Egan.)
Egbert, Harry G. (See Tizzard and Egbert.)
Egbert, Robert R. (See Opitz and Egbert.)
Egge, Frederick, assignor to The Smith & Egge Mfg. Co., Bridgeport, Conn. Sash-pulley. No. 1,017,252; Feb. 13; Sp. p. 2283; Gaz. vol. 175; p. 388.
Egge, Frederick, assignor to The Smith & Egge Mfg. Co., Bridgeport, Conn. Lock. No. 1,038,864; Sept. 17; Gaz. vol. 182; p. 641.
Egger, Louis, Bruggen-St. Gallen, Switzerland. Book-sewing machine. No. 1,033,306; July 23; Gaz. vol. 180; p. 967.
Eggers, Ernest, San Bernardino, Cal. Planing-machine. No. 1,041,984; Oct. 22; Gaz. vol. 183; p. 883.
Eggers, Ernest, assignor to Colorado-Yule Marble Co., New York, N. Y. Stone-sawing machine. No. 1,017,207; Feb. 13; Sp. p. 2183; Gaz. vol. 175; p. 371.
Eggers, Fred W., Wausau, Wis. Attachment for grindstones. No. 1,028,693; June 4; Sp. p. 1342; Gaz. vol. 179; p. 209.
Eggers, Henry, assignor to The Mine & Smelter Supply Company, Denver, Colo. Head-motion for ore-concentrators. No. 1,038,322; Sept. 10; Gaz. vol. 182; p. 417.
Eggleston, Allen J., Aurora, Ill. Door-hanger track. No. 1,036,589; Aug. 27; Gaz. vol. 181; p. 847.
Eggleston, Harvey G., Ionia, Mich. Adjustable dead-collar for woodworking-shapers. No. 1,032,128; July 9; Gaz. vol. 180; p. 482.
Eggleston, John E., assignor to Standard Oil Company, Bayonne, N. J. Utilizing sulfur-containing petroleum. No. 1,018,040; Feb. 20; Sp. p. 4013; Gaz. vol. 175; p. 695.
Egler, Joseph, Chicago, Ill. Refrigerator. No. 1,013,478; Jan. 2; Sp. p. 848; Gaz. vol. 174; p. 135.
Egleston, Henry C., Tampa, Fla. Vehicle-top connection. No. 1,045,268; Nov. 26; Gaz. vol. 184; p. 863.
Egli, Arnold, assignor to Vogtländische Maschinen-Fabrik (vormals J. C. & H. Dietrich) Actiengesellschaft, Plauen, Germany. Matrix for stereotype-plate molds. No. 1,026,739; May 21; Sp. p. 3627; Gaz. vol. 178; p. 630.
Egli, Arnold, assignor to Vogtlandische Maschinen-Fabrik (vormals J. C. & H. Dietrich) A. G., Plauen, Germany, Machine for casting and finishing cylindrical stereotype-plates. No. 1,028,694; June 4; Sp. p. 1343; Gaz. vol. 179; p. 209.
Egli, Arnold, assignor to Vogtlandische Maschinenfabrik (vormals J. C. & H. Dietrich) A. G., Plauen, Germany. Device for finishing stereotype printing-plates. No. 1,042,208; Oct. 22; Gaz. vol. 183; p. 956.
Egli, Arnold, assignor to Vogtlandische Maschinen-Fabrik, (vormals J. C. & H. Dietrich,) A. G., Plauen, Germany. Mold for casting and finishing rotary printing-plates. No. 1,048,667; Dec. 31; Gaz. vol. 185; p. 1129.
Eglin, William C. L. (See Rice, Horace E., assignor.)
Egly, Georg, assignor to Gebr. Siemens & Co., Berlin, Germany. Arc-lamp electrode. No. 1,036,815; Aug. 27; Gaz. vol. 181; p. 921.
Egnér, Carl E., Stockholm, and J. G. Holmström, Saltsjö-Storängen, Sweden. Multiple telephone-transmitter. No. 1,023,557; Apr. 16; Sp. p. 3829; Gaz. vol. 177; p. 676.
Egnér, Carl E., Stockholm, and J. G. Holmström, Saltsjö-Storängen, Sweden. Carbon-grain cells of telephone-transmitters. No. 1,042,772; Oct. 29; Gaz. vol. 183; p. 1180.
Egnor, Theodore L., Jersey City, N. J., assignor of one-half to G. S. Williamson, New York, N. Y. Sole-plate for cylinders. No. 1,047,771; Dec. 17; Gaz. vol. 185; p. 758.

Alphabetical list of patentees—Continued.

Egry Register Company, The. (See Nickol and Stern, assignors.)

Ehinger, Frank, assignor of one-third to H. Bloomingdale and one-third to W. W. Levy, New Bedford, Mass. Harness-stop-motion device. No. 1,024,680; Apr. 30; Sp. p. 6344; Gaz. vol. 177; p. 1118.

Ehle, Archibald H., assignor, by mesne assignments, to The Baldwin Locomotive Works, Philadelphia, Pa. Internal-combustion locomotive. No. 1,018,889; Feb. 27; Sp. p. 5893; Gaz. vol. 175; p. 1016.

Ehlerding, Frederick J. (See Braeckel and Ehlerding.)

Ehlers, Charles, West Hoboken, N. J. Airship. No. 1,033,234; July 23; Gaz. vol. 180; p. 943.

Ehlert, Arthur, Wollin, Wollin Island, Germany. Igniting device. No. 1,027,600; May 28; Sp. p. 5505; Gaz. vol. 178; p. 962.

Ehmann, Jacob, Arlington, N. J. Clasp. No. 1,022,663; Apr. 9; Sp. p. 1925; Gaz. vol. 177; p. 336.

Ehmling, Alexander, Philadelphia, Pa. Stationery-box. No. 1,014,581; Jan. 9; Sp. p. 3247; Gaz. vol. 174; p. 541.

Ehmsen, Carl F., assignor to Metall-Industrie Schönebeck A. G., Schönebeck-on-the-Elbe, Germany. Key-cap for type-writing and similar machines. No. 1,021,975; Apr. 2; Sp. p. 485; Gaz. vol. 177; p. 77.

Ehrenberg, Charles, *et al.* (See Suhr, Emil, assignor.)

Ehret, Cornelius D., Ardmore, Pa. Signaling by electro-radiant energy. No. 1,018,555; Feb. 27; Sp. p. 5205; Gaz. vol. 175; p. 905.

Ehret, Cornelius D., Philadelphia, Pa., assignor to Wireless Specialty Apparatus Company. Signaling system. No. 1,031,698; July 9; Gaz. vol. 180; p. 337.

Ehrhardt, Heinrich, Dusseldorf, assignor to Rheinische Metallwaaren- und Maschinenfabrik, Dusseldorf-Derendorf, Germany. Manufacture of cartridge-cases of brass or other alloys of copper. No. 1,024,840; Apr. 30; Sp. p. 6679; Gaz. vol. 177; p. 1175.

Ehrhart, Raymond N., Edgewood Park, assignor, by mesne assignments, to The Colonial Trust Company, trustee, Pittsburgh, Pa. Fluid-translating device. No. 1,029,979; June 18; Sp. p. 4170; Gaz. vol. 179; p. 722.

Ehrlich, Adolf, Budapest, Austria-Hungary. Railway-vehicle with electromagnetic adherence and shiftable axles. No. 1,043,574; Nov. 5; Gaz. vol. 184; p. 190.

Ehrlich, Paul, and A. Bertheim, Frankfort-on-the-Main, assignors to Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany. Arsenobenzene derivatives and make same. No. 1,017,657; Feb. 20; Sp. p. 3108; Gaz. vol. 175; p. 561.

Ehrlich, Paul, and L. Benda, Frankfort-on-the-Main, assignors to Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany. Arseno compound. No. 1,028,101; June 4; Sp. p. 19; Gaz. vol. 179; p. 6.

Ehrman, Charles C., Winthrop, assignor to Ehrman Manufacturing Company, Boston, Mass. Sounding-disk. No. 1,026,256; May 14; Sp. p. 2575; Gaz. vol. 178; p. 431.

Ehrman Manufacturing Company. (See Ehrman, Charles C., assignor.)

Ehrmann, Adolph, Eureka, S. D. Submarine boat. No. 1,014,959; Jan. 16; Sp. p. 4178; Gaz. vol. 174; p. 703.

Ehrsam, William J., trustee. (See Morscher, Lawrence N., assignor.)

Eiane, Halvor O., San Diego, Cal. Aeroplane. No. 1,021,040; Mar. 26; Sp. p. 4321; Gaz. vol. 176; p. 802.

Eiane, Halvor O., San Diego, Cal. Aeroplane. No. 1,044,635; Nov. 19; Gaz. vol. 184; p. 614.

Eichberg, Friedrich. (See Winter and Eichberg.)

Eiche, Frederick, Lincoln, Nebr. Clothes-line reel. No. 1,024,978; Apr. 30; Sp. p. 6950; Gaz. vol. 177; p. 1222.

Eichele, Charles L., Pittsburgh, Pa. Duster for vacuum-cleaners. No. 1,040,176; Oct. 1; Gaz. vol. 183; p. 169.

Eichelkraut, Walter, Zehlendorf, near Berlin, Germany. Closet. No. 1,016,001; Jan. 30; Sp. p. 6396; Gaz. vol. 174; p. 1113.

Eichelkraut, Walter, Zehlendorf, near Berlin, Germany. Safety device for cash-desks. No. 1,023,461; Apr. 16; Sp. p. 3638; Gaz. vol. 177; p. 645.

Eichengrün, Arthur, Berlin, Germany. Cellulose acetate composition and making the same. No. 1,015,155; Jan. 16; Sp. p. 4562; Gaz. vol. 174; p. 769.

Eichengrün, Arthur, Berlin, Germany. Plastic similar to celluloid and manufacturing the same. No. 1,015,156; Jan. 16; Sp. p. 4564; Gaz. vol. 174; p. 769.

Eicher, William J., Perryopolis, Pa. Penholder. No. 1,015,157; Jan. 16; Sp. p. 4567; Gaz. vol. 174; p. 770.

Eichholtz, William B., New Orleans, La. Push-button. No. 1,039,039; Sept. 17; Gaz. vol. 182; p. 697.

Eichholz, Joseph H., St. Louis, Mo. Ball-bearing caster. No. 1,014,582; Jan. 9; Sp. p. 3248; Gaz. vol. 174; p. 542.

Eichhorn, Jacob C., assignor to The Victor Jar Company, Detroit, Mich. Closure for vessels. No. 1,042,209; Oct. 22; Gaz. vol. 183; p. 957.

Eichler, Albert R., Sacramento, Cal. Cushion-head for concrete piles. No. 1,039,369; Sept. 24; Gaz. vol. 182; p. 829.

Eichler, Theodor. (See Schmidt, Lutz, and Eichler.)

Eick, Otto, Baltimore, Md. Roller conveyer. No. 1,019,030; Mar. 5; Sp. p. 30; Gaz. vol. 176; p. 9.

Eick, Otto, Baltimore, Md. Bottle rinsing and washing machine. No. 1,035,330; Aug. 13; Gaz. vol. 181; p. 343.

Eickelberg, Louis E., Adrian, Minn. Ink-well filler. No. 1,043,218; Nov. 5; Gaz. vol. 184; p. 62.

Eicken, Hubert. (See Windrath and Eicken.)

Eidam, Edward G., assignor to Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Switching-key. No. 1,043,307; Nov. 5; Gaz. vol. 184; p. 94.

Eifert, Carl F. (See Eifert, Roy W. and C. F.)

Eifert, Roy W. and C. F., Huntsville, Ill. Road-drag. No. 1,023,421; Apr. 16; Sp. p. 3557; Gaz. vol. 177; p. 633.

Eifler, Johan G., assignor of one-third to E. Ebbinghaus, New York, N. Y. Fireproof floor and ceiling construction. No. 1,013,537; Jan. 2; Sp. p. 979; Gaz. vol. 174; p. 157.

Eiger & Bros., E. (See Nattenheimer, Julius, assignor.)

Eilers, Hio P., New York, N. Y. Book-page-recording device. No. 1,018,816; Feb. 27; Sp. p. 5754; Gaz. vol. 175; p. 992.

Eilert, Henry F., Cleveland, Ohio. Convertible window-sash. No. 1,023,726; Apr. 16; Sp. p. 4147; Gaz. vol. 177; p. 728.

Eilertsen, Lucien C., Paris, France. Rheostat. No. 1,019,616; Mar. 5; Sp. p. 1351; Gaz. vol. 176; p. 205.

Einfeldt, Emil, assignor, by mesne assignments, to G. W. and N. French and J. L. Hecht, Davenport, Iowa. Riveting-machine. No. 1,025,384; May 7; Sp. p. 622; Gaz. vol. 178; p. 96.

Einstein, Max, Hamburg, Germany. Obtaining the bast from ramie-stalks and from kindred plants. No. 1,043,575; Nov. 5; Gaz. vol. 184; p. 190.

Einstein, S. M. (See Killion, John F., assignor.)

Einstein, Samuel M. (See Forsell, Frans E., assignor.)

Eisel, Frank, F. Hagen, and A. Schroeder, Breese, Ill. Railway-tie. No. 1,017,042; Feb. 13; Sp. p. 1807; Gaz. vol. 175; p. 314.

Eisele, Karl, Rastatt, Germany, assignor to A. Schomburg, Schöneberg, near Berlin, Germany. Reinforced glass plate. No. 1,049,065; Dec. 31; Gaz. vol. 185; p. 1266.

Eisele, Louis F., assignor to W. H. Watts & Co., Philadelphia, Pa. Means for balancing frames for fireplace screens, blowers, and window-sashes. No. 1,016,876; Feb. 6; Sp. p. 1418; Gaz. vol. 175; p. 220.

Eisemann, Alexander, New York, N. Y. Reconstructed plume. No. 1,032,364; July 9; Gaz. vol. 180; p. 565.

Eisenach, Henry, and W. F. Smith, Detroit, Mich. Safety-valve for water-heaters. No. 1,045,007; Nov. 19; Gaz. vol. 184; p. 744.

Eisenberg, Rubin, assignor of one-half to I. Drukman, Baltimore, Md. Soldering-iron heater. No. 1,024,320; Apr. 23; Sp. p. 5478; Gaz. vol. 177; p. 960.

Eisenberg, William S. (See Duncan and Eisenberg.)

Eisenbise, Harry W., Reading, Pa. Fire-fighting apparatus. No. 1,023,141; Apr. 16; Sp. p. 2998; Gaz. vol. 177; p. 539.

Eisenhardt, William J., Baltimore, Md. Straw-holder. No. 1,014,866; Jan. 16; Sp. p. 3972; Gaz. vol. 174; p. 672.

Eisenhart, William H., York, Pa. Latch-bolt lock. No. 1,014,583; Jan. 9; Sp. p. 3249; Gaz. vol. 174; p. 542.

Eisenhower, William H., Reading, Pa. Reversing mechanism. No. 1,041,985; Oct. 22; Gaz. vol. 183; p. 883.

Eisenhuth, John W., Brooklyn, N. Y. Reversing mechanism for motors. No. 1,029,430; June 11; Sp. p. 2971; Gaz. vol. 179; p. 497.

Eisenmann, Carl W., Chicago, Ill., assignor to The Perkins Electric Switch Manufacturing Company, Bridgeport, Conn. Switch-handle. No. 1,025,691; May 7; Sp. p. 1294; Gaz. vol. 178; p. 201.

Eisnaugle, Sherman, Columbus, Ohio. Rail-fastening. No. 1,044,034; Nov. 12; Gaz. vol. 184; p. 378.

Eisner, Felix A., Rochester, N. Y. Control of vehicle driving-wheels. No. 1,026,662; May 21; Sp. p. 3460; Gaz. vol. 178; p. 604.

Eisner, Max. (See Dénes, Aladár, assignor.)

Eitner, Berthold, assignor to Deutsche Waffen- und Munitionsfabriken, Berlin, Germany. Ball-grinding machine. No. 1,036,590; Aug. 27; Gaz. vol. 181; p. 848.

Ekker, Charles, Hammond, La. Hat-pin-point protector. No. 1,022,833; Apr. 9; Sp. p. 2318; Gaz. vol. 177; p. 396.

Eklund, Alexander, Attleboro, assignor to J. F. Sturdy's Sons Co., Attleboro Falls, Mass. Bracelet. No. 1,047,623; Dec. 17; Gaz. vol. 185; p. 707.

Eklund, Emil, Pennock, Minn. Whiffletree-detaching device for vehicle-thills. No. 1,014,584; Jan. 9; Sp. p. 3250; Gaz. vol. 174; p. 542.

Eklund, Gustav, New York, N. Y., assignor to The Dressel Railway Lamp Works. Lamp-burner. No. 1,038,323; Sept. 10; Gaz. vol. 182; p. 417.

Eklund, Gustave F., Dracut, Mass. Flying-machine. No. 1,047,010; Dec. 10; Gaz. vol. 185; p. 457.

Eklund, Oscar E., F. G. and W. M. Folberth, San Francisco, Cal. Inhaler. No. 1,035,954; Aug. 20; Gaz. vol. 181; p. 593.

Ekman, Carl. (See Sinclair and Ekman.)

Ekman, Einar P., Chicago, Ill. Hydroaeroplane. No. 1,026,304; May 14; Sp. p. 2673; Gaz. vol. 178; p. 447.

Alphabetical list of patentees—Continued.

Ekorenrud, August O., Seattle, Wash. Stock and die. No. 1,019,234; Mar. 5; Sp. p. 502; Gaz. vol. 176; p. 79.
Ekrem, Lars O., Copper City, Mich. Mower. No. 1,027,190; May 21; Sp. p. 4668; Gaz. vol. 178; p. 785.
Ekron, Robert. (See Godfrey, Ekron, and Svebilius.)
Ekstrom, Arvid W., Los Angeles, Cal. Manufacturing alkali hydroxids. No. 1,034,599; Aug. 6; Gaz. vol. 181; p. 65.
Ekstrom, Arvid W., Los Angeles, Cal. Furnace. No. 1,044,763; Nov. 19; Gaz. vol. 184; p. 661.
Ekström, Per G., Skutskär, Sweden, assignor to Stora Kopparbergs Bergslags Aktiebolag, Falun, Sweden. Producing alcohol from the waste sulfite-cellulose lyes. No. 1,035,086; Aug. 6; Gaz. vol. 181; p. 228.
Ekström, Per G., Harnäs, assignor to Aktiebolaget Ethyl, Falun, Sweden. Manufacture of ethyl alcohol by fermenting sulfite liquor. No. 1,046,160; Dec. 3; Gaz. vol. 185; p. 124.
Ekvall, Conrad, Elgin, Ill. Milk-pail holder. No. 1,048,303; Dec. 24; Gaz. vol. 185; p. 964.
El Arco Radiator Company. (See Gildersleeve, Raleigh C., assignor.)
Elbel, Karl, assignor to Kalle and Company, Aktiengesellschaft, Biebrich, Germany. Manufacture of beta-naphthol-ortho-oxy-azo dye. No. 1,023,199; Apr. 16; Sp. p. 3130; Gaz. vol. 177; p. 560.
Elbel, Karl, assignor to Kalle & Co., Aktiengesellschaft, Biebrich, Germany. Manufacture of pyrazolone-azo dye. No. 1,026,257; May 14; Sp. p. 2576; Gaz. vol. 178; p. 431.
Elbel, Karl, assignor to Kalle & Company, Aktiengesellschaft, Biebrich, Germany. Manufacture and production of fast ortho-oxy-azo dyestuffs. No. 1,028,006; May 28; Sp. p. 6398; Gaz. vol. 178; p. 1098.
Elder, Donald, Onehunga, New Zealand. Wire-wrapping machine. No. 1,020,599; Mar. 19; Sp. p. 3387; Gaz. vol. 176; p. 601.
Elder, Edward H., Chicopee Falls, assignor to National Blank Book Company, Holyoke, Mass. Loose-leaf binder. No. 1,024,472; Apr. 23; Sp. p. 5812; Gaz. vol. 177; p. 1010.
Elder, Gordon W., Malden, Mass. Separator. No. 1,023,462; Apr. 16; Sp. p. 3639; Gaz. vol. 177; p. 646.
Elder, Herbert, St. Louis, Mo. Key-ring holder. No. 1,039,040; Sept. 17; Gaz. vol. 182; p. 697.
Elder, John F. (See Cobb, Manuel E., assignor.)
Elder, William S., assignor to J. Hirsh, Philadelphia, Pa. Union suit. No. 1,019,710; Mar. 5; Sp. p. 1523; Gaz. vol. 176; p. 236.
Elderkin, John, Philadelphia, Pa. Channel-flap opener and moistener. No. 1,015,729; Jan. 23; Sp. p. 5814; Gaz. vol. 174; p. 991.
Eldred, Byron E., Bronxville, N. Y. Clad metals and making same. No. 1,043,576; Nov. 5; Gaz. vol. 184; p. 190.
Eldred, Byron E., Bronxville, assignor to The Commercial-Research Company, New York, N. Y. Metallurgical heating process. No. 1,035,331; Aug. 13; Gaz. vol. 181; p. 344.
Eldred, Byron E., Bronxville, assignor to The Commercial-Research Company, New York, N. Y. Method of and apparatus for producing compound metal objects. No. 1,043,577; Nov. 5; Gaz. vol. 184; p. 190.
Eldred, Byron E., Bronxville, assignor to The Commercial-Research Company, New York, N. Y. Compound metal body and making same. No. 1,043,578; Nov. 5; Gaz. vol. 184; p. 191.
Eldred, Byron E., Bronxville, assignor to The Commercial-Research Company, New York, N. Y. Chemical vessel. No. 1,043,579; Nov. 5; Gaz. vol. 184; p. 191.
Eldred, Byron E., Bronxville, assignor to The Commercial-Research Company, New York, N. Y. Catalytic body. No. 1,043,580; Nov. 5; Gaz. vol. 184; p. 191.
Eldred, Byron E., Bronxville, assignor to The Commercial-Research Company, New York, N. Y. Chemical apparatus. No. 1,043,581; Nov. 5; Gaz. vol. 184; p. 192.
Eldred, Frank R., assignor to The Eli Lilly & Company, Indianapolis, Ind. Ampoule. No. 1,022,069; Apr. 2; Sp. p. 675; Gaz. vol. 177; p. 108.
Eldred, George S., Chicago, Ill. Cigar-lighter. No. 1,038,735; Sept. 17; Gaz. vol. 182; p. 596.
Eldred, Howard M., Milwaukee, Wis. Electrical signaling system. No. 1,042,096; Oct. 22; Gaz. vol. 183; p. 920.
Eldredge, Francies E., Waverly, Iowa. Gate. No. 1,032,592; July 16; Gaz. vol. 180; p. 685.
Eldridge, Charles C., and E. J. Beebe, Marshalltown, Iowa. Spark-plug. No. 1,028,200; June 4; Sp. p. 321; Gaz. vol. 179; p. 43.
Eldridge, Herbert M. (See Eldridge, Reuben C. and H. M.)
Eldridge, Hilliary. (See Rockey and Eldridge.)
Eldridge, Reuben C., Niagara Falls, Ontario, Canada, and J. Willers, Niagara Falls, N. Y.; said Willers assignor to said Eldridge. Animal-trap. No. 1,025,564; May 7; Sp. p. 1033; Gaz. vol. 178; p. 159.
Eldridge, Reuben C. and H. M., Niagara Falls, Ontario, Canada; said H. M. Eldridge assignor to said Reuben C. Eldridge. Animal-trap. No. 1,026,305; May 14; Sp. p. 2678; Gaz. vol. 178; p. 448.
Eldridge, Willard C., Chicago, Ill. Car-door-operating device. No. 1,015,793; Jan. 30; Sp. p. 5953; Gaz. vol. 174; p. 1041.
Electrelle Company. (See Smith, Irving B., assignor.)
Electrene Company, The. (See Lawrence, Ernest M., assignor.)
Electric Bank Protection Company. (See Juruick, Maximilian F., assignor.)
Electric Bank Protection Company. (See Williams and Huhn, assignors.)
Electric Boat Company. (See Bailey, Theodorus S., assignor.)
Electric Boat Company. (See Bedell, Charles H., assignor.)
Electric Boat Company. (See Davison, Gregory C., assignor.)
Electric Carrier Company. (See McLeer, Charles B. and J. F., assignors.)
Electric Chain Company. (See Gammelgaard, Ove L., assignor.)
Electric Compositor Company. (See Le Boeuf, Arthur W., assignor.)
Electric Controller and Manufacturing Company, The. (See Eastwood, Arthur C., assignor.)
Electric Controller and Manufacturing Company, The. (See Hall, Jay H., assignor.)
Electric Controller and Manufacturing Company, The. (See Stratton, Harry F., assignor.)
Electric Export-Werke G. m. b. H. (See Gottschalck, Emil, assignor.)
Electric Goods Manufacturing Company. (See Lincoln, Edwin S.)
Electric Goods Manufacturing Company. (See Thomson, Henry C., assignor.)
Electric Heat Conserving Company. (See Dimmick, Joseph O., assignor.)
Electric Heat Regulator Company. (See Kersteter, Joel C., assignor.)
Electric Meat Curing Company, The. (See James, Frank P., assignor.)
Electric Meat Curing Company, The. (See Lincoln, John C., assignor.)
Electric and Ordnance Accessories Company Limited. (See Garner and Mueller, assignors.)
Electric Railway Improvement Co., The. (See Herrick, Albert B., assignor.)
Electric Railway Improvement Company, The. (See Cleveland and Huber, assignors.)
Electric Railway Supplies. (See Sullivan, Edward A., assignor.)
Electric Renovator Manufacturing Company. (See Drum, Joseph D., assignor.)
Electric Renovator Manufacturing Company. (See Harker, Charles E., assignor.)
Electric Renovator Manufacturing Company. (See Thurman, Charles R., assignor.)
Electric Respirone Company, The. (See Hill, Elwin K., assignor.)
Electric Service Supplies Company, The. (See Cravens, George W., assignor.)
Electric Signagraph and Semaphore Company, The. (See Webb, Jean F., Jr., assignor.)
Electric Smelting and Aluminum Company, The. (See Cowles, Alfred H., assignor.)
Electric Smelting and Aluminum Company. (See Cowles and Kayser, assignors.)
Electric Storage Battery Company, The. (See Bell, Charles W., assignor.)
Electric Storage Battery Company, The. (See Bijur, Joseph, assignor.)
Electric Storage Battery Company, The. (See Morris, George H., assignor.)
Electric Storage Battery Company, The. (See Rodman, Hugh, assignor.)
Electric Weighing Company. (See Messiter, Edwin H., assignor.)
Electric Welding Products Company, The. (See Bartlett, William D., assignor.)
Electro-Chemical Engraving Co. (See Jacobus, Nelson L., assignor.)
Electro-Chemical Rubber & Manufacturing Company. (See Daft, Leo, assignor.)
Electro-Clock Company, The. (See Vincent, Sidney C., assignor.)
Electro-Dynamic Company. (See Bonine, Charles E., assignor.)
Electro Metallurgical Company. (See Becket, Frederick M., assignor.)
Electro Surgical Instrument Co. (See Snell, Albert C., assignor.)
Electrochemische Werke G. m. b. H. (See Rothe, Fritz, assignor.)
Electrode Company of America. (See Héroult, Paul L. T., assignor.)
Electrolytic Products Co. (See Feldkamp, Frederick A., assignor.)
Elektromotoren-Werke Hermann Gradenwitz. (See Gradenwitz, Vollbrecht, and Levzow, assignors.)
Electromotors Limited *et al.* (See Hamilton, John H., assignor.)

Alphabetical list of patentees—Continued.

Elektorowicz, Emil, (by judicial change of name now E. De Ryss,) New York, N. Y. Station-platform for railways. No. 1,027,828; May 28; Sp. p. 5985; Gaz. vol. 178; p. 1038.
Elevator Supply & Repair Company. (See Meyer, Barney, assignor.)
Elevator Supply & Repair Company. (See Schenck, Charles, assignor.)
Elevator Supply & Repair Company. (See Wylde and Schenck, assignors.)
Eley Brothers Limited. (See Goodwin, Ernest, assignor.)
Elfborg, Henry G., Chicago, Ill. Railway-rail. No. 1,018,102; Feb. 20; Sp. p. 4167; Gaz. vol. 175; p. 717.
Elfborg, Henry G., assignor to Ajax Forge Company, Chicago, Ill. Railway-frog. No. 1,037,880; Sept. 10; Gaz. vol. 182; p. 268.
Elfborg, Henry G., assignor to Ajax Forge Company, Chicago, Ill. Railway-frog. No. 1,044,508; Nov. 19; Gaz. vol. 184; p. 569.
Elger, Franz, Basel, Switzerland, assignor to Hoffmann-La Roche Chemical Works, New York, N. Y. Separating meta- and para-cresols. No. 1,025,615; May 7; Sp. p. 1148; Gaz. vol. 178; p. 176.
Elger, Franz, Basel, Switzerland, assignor to Hoffmann-La Roche Chemical Works, New York, N. Y. Meta-cresol and making the same. No. 1,025,616; May 7; Sp. p. 1151; Gaz. vol. 178; p. 176.
Elgin National Watch Company. (See Malvern, Lewis K., assignor.)
Eli Lilly & Company, The. (See Eldred, Frank R., assignor.)
Elia, Giovanni E., Paris, France, assignor to Vickers Limited, Westminister, London, England. Automatic firing device for submarine mines. No. 1,025,905; May 7; Sp. p. 1785; Gaz. vol. 178; p. 274.
Eliscu, Julius, New York, N. Y. Game. No. 1,036,591; Aug. 27; Gaz. vol. 181; p. 848.
Elkhart Musical Instrument Company. (See Reid, William C., assignor.)
Elkin, Charles, New York, N. Y. Pipe. No. 1,027,530; May 28; Sp. p. 5358; Gaz. vol. 178; p. 938.
Elkin, Charles, New York, N. Y. Pipe-protector. No. 1,041,256; Oct. 15; Gaz. vol. 183; p. 602.
Elkin, John B., assignor of one-half to J. H. Berry, Columbia, S. C. Automatic fuse-resetter. No. 1,018,239; Feb. 20; Sp. p. 4450; Gaz. vol. 175; p. 764.
Elkin, Warren, assignor of two-ninths to G. A. Green, two-ninths to J. P. Monroe, and two-ninths to E. J. Egan, Winchester, Ky. Belt-shifter. No. 1,029,495; June 11; Sp. p. 3094; Gaz. vol. 179; p. 519.
Elkins, David H. (See Taylor and Elkins.)
Elkins, Ransom M., Poplar Bluff, Mo. Rinsing-faucet. No. 1,023,630; Apr. 16; Sp. p. 3990; Gaz. vol. 177; p. 701.
Elkins, Thomas M., Duffau, Tex. Cotton or drag sack protector. No. 1,022,308; Apr. 2; Sp. p. 1155; Gaz. vol. 177; p. 185.
Elkinton, William T. (See Wheeler, James A., assignor.) (Reissue.)
Elkofer, Martin, Leipzig, Germany. Feed-water regulator. No. 1,020,642; Mar. 19; Sp. p. 3484; Gaz. vol. 176; p. 615.
Elkström, Per G., Harnäs, assignor to Aktiebolaget Ethyl, Falun, Sweden. Manufacturing alcohol from sulfite liquor. No. 1,042,332; Oct. 22; Gaz. vol. 183; p. 997.
Elicon Company, The. (See Brinckerhoff, Frank M., assignor.)
Elledge, William N., Beeville, Tex. Syrup-percolator. No. 1,026,500; May 14; Sp. p. 3106; Gaz. vol. 178; p. 513.
Ellenburg, Joseph N., and A. Nelson; said Nelson assignor to G. F. Thompson, McKinney, Tex. Cotton elevator and distributer. No. 1,037,223; Sept. 3; Gaz. vol. 182; p. 16.
Eller Manufacturing Company, The. (See Faulhaber, John L., assignor.)
Ellersick, Bernard C., St. Louis, Mo. Music-leaf turner. No. 1,013,284; Jan. 2; Sp. p. 425; Gaz. vol. 174; p. 69.
Ellett, Frederick S., Elmira, N. Y. Clutch. No. 1,018,890; Feb. 27; Sp. p. 5895; Gaz. vol. 175; p. 1016
Ellett, Frederick S., Elmira, N. Y. Clutch. No. 1,018,891; Feb. 27; Sp. p. 5898; Gaz. vol. 175; p. 1017.
Ellett, Frederick S., Elmira, N. Y. Clutch. No. 1,045,688; Nov. 26; Gaz. vol. 184; p. 1013.
Ellingen, Wilhelm, Cologne-Lindenthal, Germany. Automatic grab for material in large pieces. No. 1,026,573; May 14; Sp. p. 3244; Gaz. vol. 178; p. 536.
Ellingen, Wilhelm, Cologne-Lindenthal, Germany. Aerial electric line. No. 1,030,060; June 18; Sp. p. 4350; Gaz. vol. 179; p. 750.
Elliot, Frank F. (See Knowlton and Elliot.)
Elliot Frog & Switch Company. (See Elliot, Henry, assignor.)
Elliot, Henry, St. Louis, Mo., assignor to Elliot Frog & Switch Company, East St. Louis, Ill. Rail-chair. No. 1,024,883; Apr. 30; Sp. p. 6761; Gaz. vol. 177; p. 1189.
Elliot, Richard M., *et al.* (See Spangler, Walter J., assignor.)
Elliott, Alvin D., Lawrence, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Nailing-machine. No. 1,030,654; June 25; Sp. p. 5844; Gaz. vol. 179; p. 1001.
Elliott, Burton A., Cass City, Mich. Automatically-operated stock-feeder. No. 1,022,309; Apr. 2; Sp. p. 1156; Gaz. vol. 177; p. 186.
Elliott, Charles B., U. S. Army. Collapsible or falling target. No. 1,025,944; May 7; Sp. p. 1872; Gaz. vol. 178; p. 287.
Elliott, Claud B., and E. E. Clappart, Hempstead, Tex. Train-indicator. No. 1,030,986; July 2; Gaz. vol. 180; p. 48.
Elliott, Claude, and C. Kelly, deceased, (O. A. Fritzel, administrator,) Grundy Center, Iowa. Means of removing the carbon from the cylinders, valves, and rings of gasolene-engines. No. 1,038,324; Sept. 10; Gaz. vol. 182; p. 417.
Elliott Company. (See Jamison, John A., assignor.)
Elliott-Fisher Company. (See Foothorap, Harry A., assignor.)
Elliott-Fisher Company. (See Parmly, Eleazer, Jr., assignor.)
Elliott-Fisher Company. (See Smiley, George H., assignor.)
Elliott-Fisher Company. (See Smith, John A., assignor.)
Elliott, Gale S., San Marcial, N. Mex. Toy. No. 1,020,030; Mar. 12; Sp. p. 2181; Gaz. vol. 176; p. 375.
Elliott, George H., Johnstown, Pa. Spike-protecting device. No. 1,017,395; Feb. 13; Sp. p. 2575; Gaz. vol. 175; p. 436.
Elliott, George S., Mobile, Ala. Corn-cutter. No. 1,041,049; Oct. 15; Gaz. vol. 183; p. 531.
Elliott, George W., Mohall, N. D. Plow attachment. No. 1,026,258; May 14; Sp. p. 2577; Gaz. vol. 178; p. 431.
Elliott, Gilbert R., Boston, Mass. Internal-combustion engine. No. 1,043,816; Nov. 12; Gaz. vol. 184; p. 301.
Elliott, Guy R. (See Butler, Palace, assignor.)
Elliott, Harmon P., Newton, Mass. Ink-roll for printing-presses. No. 1,036,200; Aug. 20; Gas. vol. 181; p. 680.
Elliott, Harry H., Lawrence, Kans. Aerial propeller. No. 1,032,050; July 9; Gaz. vol. 180; p. 457.
Elliott, James A. R., New York, N. Y. Ear-protector. No. 1,016,877; Feb. 6; Sp. p. 1419; Gaz. vol. 175; p. 220.
Elliott, John C. (See Moore and Elliott.)
Elliott, John M., Dellroy, Ohio. Road-scraper. No. 1,031,919; July 9; Gaz. vol. 180; p. 414.
Elliott, Mariea. (See Elliott, Thaddious V., assignor.)
Elliott, Mary E., Maxwell, Iowa. Cabinet. No. 1,041,986; Oct. 22; Gaz. vol. 183; p. 884.
Elliott, Percy M., Chicago, Ill. Car-door mechanism. No. 1,024,502; Apr. 30; Sp. p. 5911; Gaz. vol. 177; p. 1056.
Elliott, Percy M., Chicago, Ill. Door-hanger. No. 1,025,617; May 7; Sp. p. 1154; Gaz. vol. 178; p. 177.
Elliott, Ralph W., and J. Jorgenson, Fruitvale, Cal. Weighing-scale. No. 1,013,479; Jan. 2; Sp. p. 849; Gaz. vol. 174; p. 136.
Elliott, Richard C., Clapham, London, England, assignor to Lanston Monotype Machine Company, Philadelphia, Pa. Line-measuring and automatic justifying mechanism for composing-machines. No. 1,024,503; Apr. 30; Sp. p. 5912; Gaz. vol. 177; p. 1056.
Elliott, Richard P., Boston, Mass. Carbid-feed acetylene-generator. No. 1,019,140; Mar. 5; Sp. p. 302; Gaz. vol. 176; p. 46.
Elliott, Robert E., and G. W. Cook, Jr., Bainbridge, N. Y. Sugar-can. No. 1,029,431; June 11; Sp. p. 2973; Gaz. vol. 179; p. 497.
Elliott, S. K. (See Frey, Sigmund, assignor.)
Elliott, Sterling, Newton, Mass. Addressing-machine. No. 1,025,459; May 7; Sp. p. 781; Gaz. vol. 178; p. 123.
Elliott, Sterling, Newton, Mass. Addressing-machine. No. 1,029,112; June 11; Sp. p. 2265; Gaz. vol. 179; p. 387.
Elliott, Sterling, Newton, Mass. Stencil-strip. No. 1,034,600; Aug. 6; Gaz. vol. 181; p. 65.
Elliott, Sterling, Newton, Mass. Ink-roll for printing-presses. No. 1,036,201; Aug. 20; Gaz. vol. 181; p. 680.
Elliott, Sterling, Newton, Mass. Inking mechanism for printing-presses. No. 1,036,202; Aug. 20; Gaz. vol. 181; p. 681.
Elliott, Sterling, Newton, Mass. Friction-clutch. No. 1,047,011; Dec. 10; Gaz. vol. 185; p. 458.
Elliott, Sterling, Newton, Mass. Oil-cup. No. 1,047,012; Dec. 10; Gaz. vol. 185; p. 458.
Elliott, Thaddious V., New York, assignor to M. Elliott, Flatbush, N. Y. Grate. No. 1,018,352; Feb. 20; Sp. p. 4659; Gaz. vol. 175; p. 801.
Elliott, Thomas H., Vancouver, British Columbia, Canada. Fire-escape. No. 1,021,361; Mar. 26; Sp. p. 4990; Gaz. vol. 176; p. 911.
Elliott, W. S. (See Faber, Frank M., assignor.)
Elliott, William E., Grand Rapids, Mich. Automatic feed mechanism for button-setting tools. No. 1,032,387; July 16; Gaz. vol. 180; p. 616.
Elliott, William E., Grand Rapids, Mich. Automatic feed mechanism for manually-operated button-setting tools. No. 1,032,388; July 16; Gaz. vol. 180; p. 617.
Elliott, William E., Grand Rapids, Mich. Button-feeding mechanism for button-setting machines. No. 1,032,389; July 16; Gaz. vol. 180; p. 617.
Elliott, William E., Grand Rapids, Mich. Fastener-guide for button-setting tools. No. 1,032,390; July 16; Gaz. vol. 180; p. 618.

Alphabetical list of patentees—Continued.

Elliott, William S., Pittsburgh, Pa. Strainer. No. 1,018,654; Feb. 27; Sp. p. 5406; Gaz. vol. 175; p. 936.
Elliott, William S., Pittsburgh, Pa. Tube-cleaning tool. No. 1,032,193; July 9; Gaz. vol. 180; p. 505.
Elliott, William S., Pittsburgh, Pa. Tube-cleaner. No. 1,036,982; Aug. 27; Gaz. vol. 181; p. 977.
Elliott, William S., Pittsburgh, Pa. Tube-cleaner. No. 1,036,983; Aug. 27; Gaz. vol. 181; p. 978.
Elliott, William S., Pittsburgh, Pa. Fastening device for doors, covers, &c. No. 1,037,747; Sept. 3; Gaz. vol. 182; p. 190.
Elliott, William S., Pittsburgh, Pa. Rotary motor. No. 1,045,134; Nov. 26; Gaz. vol. 184; p. 816.
Elliott, William S., E. R. Mills, and H. B. Holt, assignors to Liberty Manufacturing Company, Pittsburgh, Pa. Rotary motor. No. 1,019,771; Mar. 12; Sp. p. 1659; Gaz. vol. 176; p. 289.
Ellis, Albert H., New York, assignor to Wyckoff, Seamans & Benedict, Ilion, N. Y. Adding-machine, &c. No. 1,024,397; Apr. 23; Sp. p. 5612; Gaz. vol. 177; p. 984.
Ellis, Alfred J., Woodcliff-on-Hudson, N. J., assignor to A. J. Ellis, Inc. Door-frame. No. 1,034,601; Aug. 6; Gaz. vol. 181; p. 66.
Ellis, Alfred J., Woodcliff-on-Hudson, N. J., assignor to A. J. Ellis, Inc. Hollow metal door and the like. No. 1,039,371; Sept. 24; Gaz. vol. 182; p. 830.
Ellis, Alfred J., and C. E. Nellis, Woodcliff-on-Hudson, N. J., assignors to A. J. Ellis, Inc. Bending-dies. No. 1,013,871; Jan. 9; Sp. p. 1753; Gaz. vol. 174; p. 300.
Ellis, Alfred J., Woodcliff-on-Hudson, N. J., and C. E. Nellis, New York, N. Y., assignors to A. J. Ellis, Inc. Hollow metal door-frame. No. 1,031,331; July 2; Gaz. vol. 180; p. 170.
Ellis, Alfred J., Woodcliff-on-Hudson, N. J., and C. E. Nellis, New York, N. Y., assignors to A. J. Ellis, Inc. Hollow metal door. No. 1,039,370; Sept. 24; Gaz. vol. 182; p. 830.
Ellis, Alvarado L., Lynn, Mass., assignor to General Electric Company. Electrical measuring instrument. No. 1,023,304; Apr. 16; Sp. p. 3332; Gaz. vol. 177; p. 595.
Ellis, Carleton, Larchmont, N. Y. Paint and varnish vehicle. No. 1,017,141; Feb. 13; Sp. p. 2033; Gaz. vol. 175; p. 349.
Ellis, Carleton, Montclair, N. J. Edible oil product. No. 1,037,881; Sept. 10; Gaz. vol. 182; p. 268.
Ellis, Carleton, Montclair, N. J. Hydrogenated butter substitute. No. 1,038,545; Sept. 17; Gaz. vol. 182; p. 529.
Ellis, Carleton, Montclair, N. J. Hydrogenation. No. 1,040,531; Oct. 8; Gaz. vol. 183; p. 320.
Ellis, Carleton, Montclair, N. J. Hydrogenating oily material. No. 1,040,532; Oct. 8; Gaz. vol. 183; p. 321.
Ellis, Carleton, Montclair, N. J. Hydrogenating oils and greases. No. 1,043,912; Nov. 12; Gaz. vol. 184; p. 335.
Ellis, Carleton, Montclair, N. J. Hydrogenated edible fat compound. No. 1,047,013; Dec. 10; Gaz. vol. 185; p. 458.
Ellis, Carleton, Larchmont, N. Y., assignor to Ellis-Foster Company. Floor-oil. No. 1,013,538; Jan. 2; Sp. p. 950; Gaz. vol. 174; p. 157.
Ellis, Carleton, Larchmont, N. Y., assignor to Ellis-Foster Company. Feeding-stuff. No. 1,018,415; Feb. 27; Sp. p. 4837; Gaz. vol. 175; p. 857.
Ellis, Carleton, Larchmont, N. Y., assignor to Ellis-Foster Company. Roofing material. No. 1,026,855; May 21; Sp. p. 3881; Gaz. vol. 178; p. 670.
Ellis, Carleton, Larchmont, N. Y., assignor to Ellis-Foster Company. Wood-oil putty. No. 1,029,800; June 18; Sp. p. 3762; Gaz. vol. 179; p. 662.
Ellis, Carleton, Larchmont, N. Y., assignor to Ellis-Foster Company. Making soap powders. No. 1,040,530; Oct. 8; Gaz. vol. 183; p. 320.
Ellis, Carleton, Larchmont, assignor to Chadeloid Chemical Company, New York, N. Y. Finish-removing process. No. 1,014,752; Jan. 16; Sp. p. 3696; Gaz. vol. 174; p. 631.
Ellis, Carleton, Larchmont, N. Y., assignor, by mesne assignments, to F. H. Bennett Biscuit Company. Feeding-stuff. No. 1,019,734; Mar. 5; Sp. p. 1573; Gaz. vol. 176; p. 245.
Ellis, Carleton, Larchmont, assignor to Chadeloid Chemical Company, New York, N. Y. Paint-remover. No. 1,027,466; May 28; Sp. p. 5231; Gaz. vol. 178; p. 918.
Ellis, Carleton, Montclair, N. J., assignor to Copper Oil Products Company. Preserving wood. No. 1,017,636; Feb. 13; Sp. p. 3064; Gaz. vol. 175; p. 516.
Ellis, Carleton, Montclair, N. J., assignor to Copper Oil Products Company, New York, N. Y. Preserved wood and making same. No. 1,020,643; Mar. 19; Sp. p. 3485; Gaz. vol. 176; p. 616.
Ellis, Carleton, Montclair, N. J., assignor to Copper Oil Products Company, New York, N. Y. Preserving wood. No. 1,028,201; June 4; Sp. p. 323; Gaz. vol. 179; p. 43.
Ellis, Carleton, Montclair, N. J., assignor to Copper Oil Products Company. Preserved wood and making same. No. 1,045,110; Nov. 19; Gaz. vol. 184; p. 780.
Ellis, Carleton, Montclair, N. J., assignor to New Jersey Testing Laboratories. Hydrogenating fatty materials. No. 1,026,156; May 14; Sp. p. 2351; Gaz. vol. 178; p. 397.
Ellis, Carleton, Montclair, N. J., assignor to Ellis-Foster Company. Concentration of waste sulfite liquor. No. 1,042,538; Oct. 29; Gaz. vol. 183; p. 1098.
Ellis, Carleton, Montclair, N. J., assignor to Ellis-Foster Company. Solid disinfecting composition containing oil. No. 1,048,815; Dec. 31; Gaz. vol. 185; p. 1181.
Ellis, Charles C., Chattanooga, Tenn. Amalgamator. No. 1,027,244; May 21; Sp. p. 4779; Gaz. vol. 178; p. 804.
Ellis, Charles H., Boston, Mass. Ball-cock. No. 1,041,257; Oct. 15; Gaz. vol. 183; p. 602.
Ellis, Charles P., and M. P. O'Donohoe, Nashville, Tenn.; said O'Donohoe assignor to said Ellis. Gas-stove attachment. No. 1,044,364; Nov. 12; Gaz. vol. 184; p. 491.
Ellis, Ed, assignor of one-third to W. K. Patterson and one-third to A. A. Leer, Guthrie, Okla. Rail-joint. No. 1,043,913; Nov. 12; Gaz. vol. 184; p. 336.
Ellis, Edward, Minneapolis, Minn. Collapsible folding bucket. No. 1,041,758; Oct. 22; Gaz. vol. 183; p. 804.
Ellis, Edwin H., Cincinnati, Ohio. Cigar cell or pocket. No. 1,030,655; June 25; Sp. p. 5856; Gaz. vol. 179; p. 1001.
Ellis Engine Company. (See Ellis, Lewis M., assignor.)
Ellis, Ferrand F., Oneida, N. Y. Link-perforating and chain-forming machine. No. 1,046,060; Dec. 3; Gaz. vol. 185; p. 89.
Ellis-Foster Company. (See Ellis, Carleton, assignor.)
Ellis, Frank H., Chicago, Ill. Antislipping device or heel-protector for shoes. No. 1,020,085; Mar. 12; Sp. p. 2298; Gaz. vol. 176; p. 394.
Ellis, Fred S., assignor to Boss and Baldwin, Attleboro Falls, Mass. Coin-holder. No. 1,046,749; Dec. 10; Gaz. vol. 185; p. 372.
Ellis, Frederick L., Milldale, Conn. Extensible electric-light bracket. No. 1,030,987; July 2; Gaz. vol. 180; p. 48.
Ellis, Frederick L., Milldale, Conn., assignor to The Wm. F. Wolff Company. Electric-light bracket. No. 1,046,573; Dec. 10; Gaz. vol. 185; p. 309.
Ellis, George H., assignor, by mesne assignments, to Northern Insulating Company, St. Paul, Minn. Machine for making insulating fabric. No. 1,022,778; Apr. 9; Sp. p. 2206; Gaz. vol. 177; p. 378.
Ellis, George V., New York, N. Y. Apparatus for disposing of oil-laden drainage. No. 1,041,050; Oct. 15; Gaz. vol. 183; p. 531.
Ellis, Halcolm, East Orange, N. J. Ribbon winding and reversing mechanism. No. 1,018,176; Feb. 20; Sp. p. 4324; Gaz. vol. 175; p. 743.
Ellis, Jacob D., Castle Rock, Colo. Metal tie. No. 1,034,435; Aug. 6; Gaz. vol. 181; p. 12.
Ellis, James H., Milwaukee, and A. J. Hoffman, Wauwatosa, Wis. Diaphragm. No. 1,040,294; Oct. 8; Gaz. vol. 183; p. 239.
Ellis, John, Salem, Mo. Insulator. No. 1,029,980; June 18; Sp. p. 4171; Gaz. vol. 179; p. 723.
Ellis, Lewis M., assignor to Ellis Engine Company, Detroit, Mich. Carbureting apparatus. No. 1,022,664; Apr. 9; Sp. p. 1926; Gaz. vol. 177; p. 336.
Ellis, Mark S., U. S. Navy. Sanitary finger-moistener. No. 1,035,827; Aug. 13; Gaz. vol. 181; p. 512.
Ellis, Mark S., U. S. Navy. Self-scoring target. No. 1,041,258; Oct. 15; Gaz. vol. 183; p. 602.
Ellis, Mark S., U. S. Navy. Contact-making shuttle for self-scoring targets. No. 1,041,259; Oct. 15; Gaz. vol. 183; p. 603.
Ellis, Robert E., Riddrie, Glasgow, Scotland. Resilient wheel. No. 1,014,644; Jan. 16; Sp. p. 3464; Gaz. vol. 174; p. 595.
Ellis, Robert G., assignor to American Car and Foundry Company, St. Louis, Mo. Stop-casting for tandem-spring draft-rigging. No. 1,042,416; Oct. 29; Gaz. vol. 183; p. 1054.
Ellis, Sidney C. (See Pierce and Ellis.)
Ellis, Simeon T. (See Palmer, James F., assignor.)
Ellis, Theodore. (See Ford and Ellis.)
Ellis, William, Chicago, Ill. Mileage transportation-ticket. No. 1,018,749; Feb. 27; Sp. p. 5610; Gaz. vol. 175; p. 970.
Ellis, William, Harrod, Ohio. Spark-plug. No. 1,024,321; Apr. 23; Sp. p. 5479; Gaz. vol. 177; p. 961.
Ellis, William J., Andrews, N. C., assignor of one-third to T. Cover, Jr., Philadelphia, Pa., and one-third to S. E. Cover, Andrews, N. C. Boiler. No. 1,016,484; Feb. 6; Sp. p. 563; Gaz. vol. 175; p. 87.
Ellis, William P. (See Francis and Ellis.)
Ellis, William V., assignor, by mesne assignments, to J. C. Blair Specialty Company, Huntingdon, Pa. Rest and lifting-lever. No. 1,018,655; Feb. 27; Sp. p. 5409; Gaz. vol. 175; p. 937.
Ellis, William V., assignor to J. C. Blair Specialty Company, Huntingdon, Pa. Skid. No. 1,036,816; Aug. 27; Gaz. vol. 181; p. 921.
Ellison, Emil E., Litchville, N. D. Rod-coupling. No. 1,047,014; Dec. 10; Gaz. vol. 185; p. 459.
Ellison, Forrest L., Exeter, N. H., assignor to United Shoe Machinery Company, Paterson, N. J. Heel-rest for scouring-machines. No. 1,042,773; Oct. 29; Gaz. vol. 183; p. 1180.

Alphabetical list of patentees—Continued.

Ellison, Henry E., Girard, assignor of one-half to R. M. Ellison, Rockbridge, Ill. Hay rake and loader. No. 1,016,740; Feb. 6; Sp. p. 1138; Gaz. vol. 175; p. 175.
Ellison, James A., Wilmington, Del. Dirigible headlight. No. 1,045,008; Nov. 19; Gaz. vol. 184; p. 744.
Ellison, Ross M. (See Ellison, Henry E., assignor.)
Ellison, Thomas J., Terrill, Ky. Animal-trap. No. 1,040,657; Oct. 8; Gaz. vol. 183; p. 369.
Ellison, Thomas J., Terrill, Ky. Corn-planter. No. 1,048,139; Dec. 24; Gaz. vol. 185; p. 911.
Ellison, Thomas J., Terrill, Ky. Land-marker. No. 1,048,140; Dec. 24; Gaz. vol. 185; p. 911.
Ellithorpe, Gilbert S. (See Westlin and Ellithorpe.)
Ellmann, Ernest E., assignor of fifty-one one-hundredths to C. D. Johnson, St. Louis, Mo. Bolt-lock. No. 1,033,163; July 23; Gaz. vol. 180; p. 917.
Ellmore, Oscar. (See Aragon, Clements L., assignor.)
Ellson, Edward C., Ellson, Minn. Stump-puller. No. 1,021,922; Apr. 2; Sp. p. 356; Gaz. vol. 177; p. 59.
Ellsworth, Augustus, Oilcenter, and A. F. and R. C. Abbott, Bakersfield, Cal. Pumping mechanism. No. 1,028,338; June 4; Sp. p. 591; Gaz. vol. 179; p. 89.
Ellsworth, Dighton B., assignor of one-third to C. E. Houston and one-third to H. L. Lane, Portland, Oreg. Equilibrator for airships. No. 1,024,398; Apr. 23; Sp. p. 5651; Gaz. vol. 177; p. 984.
Ellsworth, Elmer E., Portland, Oreg., assignor to Ellsworth Spark Arrester Company. Spark-arrester for smoke-stacks. No. 1,028,449; June 4; Sp. p. 856; Gaz. vol. 179; p. 128.
Ellsworth, Elmer E., Palmer, Oreg., assignor to Ellsworth Spark Arrester Company. Spark-arrester. No. 1,028,450; June 4; Sp. p. 857; Gaz. vol. 179; p. 128.
Ellsworth, Frank H., Benton Harbor, Mich. Sanitary drinking-cup. No. 1,023,998; Apr. 23; Sp. p. 4778; Gaz. vol. 177; p. 848.
Ellsworth, Henry E., assignor to The Ensign-Bickford Company, Simsbury, Conn. Fuse. No. 1,023,142; Apr. 16; Sp. p. 3001; Gaz. vol. 177; p. 540.
Ellsworth Spark Arrester Company. (See Ellsworth, Elmer E., assignor.)
Ellsworth, William, Red Rock, Wash. Pump-operating apparatus. No. 1,046,161; Dec. 3; Gaz. vol. 185; p. 124.
Elm, Charles E. South Prairie, Wash. Hoisting and conveying apparatus. No. 1,034,386; July 30; Gaz. vol. 180; p. 1361.
Elm, Elmer J., Funk, assignor of one-half to G. A. Nelson, Axtell, Nebr. Buckle-guard. No. 1,020,811; Mar. 19; Sp. p. 3839; Gaz. vol. 176; p. 673.
Elmendorf, Bernhard, and J. Gabler, Isselhorst, Germany. Weft-replenishing loom. No. 1,042,774; Oct. 29; Gaz. vol. 183; p. 1181.
Elmer, James P., St. Paul, Minn., assignor to Moore Patent Car Company. Refrigerator-car. No. 1,032,051; July 9; Gaz. vol. 180; p. 457.
Elmore, Harry V., Dayton, Ohio. Switch-throwing mechanism. No. 1,015,669; Jan. 23; Sp. p. 5689; Gaz. vol. 174; p. 972.
Elmore, Milton R. (See Cruikshank and Elmore.)
Elmore, Samuel E. (See Hare, Charles R., assignor.)
Elmquist, Gotfrid S. (See Osterlind and Elmquist.)
Eloesser, Carl, Berlin-Charlottenburg, Germany. Driving-pulley. No. 1,031,433; July 2; Gaz. vol. 180; p. 204.
Elrod, Allen M., Chicago, Ill. Mute for cornets and the like. No. 1,033,307; July 23; Gaz. vol. 180; p. 967.
Elrod, William C., Fair Play, Mo. Valve for explosive-engines. No. 1,047,015; Dec. 10; Gaz. vol. 185; p. 459.
Elsacer, William C., Grand Rapids, Mich. Temperature-alarm. No. 1,042,539; Oct. 29; Gaz. vol. 183; p. 1098.
Elsas, Edward J., Kansas City, Mo. Aeroplane. No. 1,041,759; Oct. 22; Gaz. vol. 183; p. 805.
Elsas, Marshal, Scott, Kans. Harrow. No. 1,021,977; Apr. 2; Sp. p. 488; Gaz. vol. 177; p. 78.
Elsasser, Carl, Wakefield, Kans. Manure-loader. No. 1,013,755; Jan. 2; Sp. p. 1471; Gaz. vol. 174; p. 232.
Elsden, Ethel M., (now by marriage Ethel M. Jones,) Hamilton, Bermuda. Spool-holder for sewing-machines. No. 1,022,185; Apr. 2; Sp. p. 917; Gaz. vol. 177; p. 146.
Else, Frank W., Oskaloosa, Iowa. Combination school desk and seat. No. 1,013,141; Jan. 2; Sp. p. 101; Gaz. vol. 174; p. 18.
Elshoff, Bernard, Cincinnati, Ohio, assignor to The Bullock Electric Manufacturing Company. Dynamo-electric machine. No. 1,030,061; June 18; Sp. p. 4350; Gaz. vol. 179; p. 750.
Elsmere, John, Battle Creek, Mich. Form for concrete construction. No. 1,016,485; Feb. 6; Sp. p. 567; Gaz. vol. 175; p. 87.
Elsner, Kurt L., New York, N. Y. Extension device for car-platforms. No. 1,045,009; Nov. 19; Gaz. vol. 184; p. 745.
Elson, Irving. (See Polsen and Elson.)
Elspass, John H. (See Galland, Walter A., assignor.)
Elstroth, Frank W. S., New York, N. Y. Door-hanger. No. 1,027,645; May 28; Sp. p. 5584; Gaz. vol. 178; p. 976.
Elstroth, Frank W. S., New York, N. Y. Door-hanger. No. 1,027,705; May 28; Sp. p. 5720; Gaz. vol. 178; p. 997.
Elstun, George S. (See Wilbur, Belden H. G., assignor.)
Elsum, Thomas, Newark, N. J. Skate-runner sharpener. No. 1,022,665; Apr. 9; Sp. p. 1928; Gaz. vol. 177; p. 336.
Eltner, Ernst, Basel, Switzerland, assignor to C. A. Lorenz, Leipzig, Germany. Dental articulator. No. 1,033,562; July 23; Gaz. vol. 180; p. 1050.
Elvin, Albert G., East Orange, N. J. Fluid-pressure motor. No. 1,030,062; June 18; Sp. p. 4352; Gaz. vol. 179; p. 752.
Elvin, Albert G., East Orange, N. J. Fluid-pressure motor. No. 1,030,063; June 18; Sp. p. 4355; Gaz. vol. 179; p. 752.
Elvin, Albert G., East Orange, N. J. Fluid-pressure motor for fire-box doors. No. 1,030,234; June 18; Sp. p. 4706; Gaz. vol. 179; p. 810.
Elvin, Albert G., Somerville, N. J. Fluid-pressure motor for fire-box doors or other reciprocating members. No. 1,030,064; June 18; Sp. p. 4358; Gaz. vol. 179; p. 752.
Elvin, Albert G., Somerville, N. J. Pipe-joint. No. 1,030,065; June 18; Sp. p. 4361; Gaz. vol. 179; p. 752.
Elwell, Albert T., Seattle, Wash. Filing device. No. 1,026,346; May 14; Sp. p. 2775; Gaz. vol. 178; p. 463.
Elwell, Franklin H., Chicago, Ill. Pump-valve. No. 1,045,534; Nov. 26; Gaz. vol. 184; p. 958.
Elwell, William R., assignor to Peirce, Fisher & Clapp, Chicago, Ill. Lamp attachment for automobiles or the like. No. 1,015,483; Jan. 23; Sp. p. 5294; Gaz. vol. 174; p. 907.
Elwood, Harry H., Middletown, Ohio. Combined hood and seat for automobiles. No. 1,047,016; Dec. 10; Gaz. vol. 185; p. 459.
Ely, George, Pittsburgh, assignor to Carbondale Machine Company, Carbondale, Pa. Filter-press ring. No. 1,031,920; July 9; Gaz. vol. 180; p. 414.
Ely, Marshall S. (See White, Kirk H., assignor.)
Ely-Norris Safe Company. (See Bedell, Orlando, assignor.)
Ely-Norris Safe Company. (See Casserly, Joseph, assignor.)
Elzas, Martin, assignor to Liberty Vending Co., New York, N. Y. Vending-machine. No. 1,020,403; Mar. 19; Sp. p. 2954; Gaz. vol. 176; p. 536.
Elzas, Martin, assignor to Liberty Vending Co., New York, N. Y. Vending-machine. No. 1,029,113; June 11; Sp. p. 2267; Gaz. vol. 179; p. 387.
Emanuel, Benjamin D., Anderson, Ind. Weighing-scale. No. 1,030,879; July 2; Gaz. vol. 180; p. 11.
Emanuel, Benjamin D., Anderson, Ind. Weighing-scale. No. 1,031,699; July 9; Gaz. vol. 180; p. 337.
Emanuele, Attilio. (See Menarini and Emanuele.)
Embling, Francis A., Carlin, Nev. Bottle attachment. No. 1,043,681; Nov. 5; Gaz. vol. 184; p. 225.
Embossing Process Company. (See Smith, Hazor J., assignor.)
Embree, Clarence J., Tacoma, Wash. Seat and carrier for motor-cycles. No. 1,020,486; Mar. 19; Sp. p. 3127; Gaz. vol. 176; p. 564.
Embree, Clayton J., assignor to Inventors Development Company, Chicago, Ill. Self-locking knife-switch. No. 1,047,772; Dec. 17; Gaz. vol. 185; p. 759.
Embury Manufacturing Co. (See Hill, James H., assignor.)
Emch, Garrett F., Woodville, Ohio. Automatic fire-alarm apparatus. No. 1,029,179; June 11; Sp. p. 2401; Gaz. vol. 179; p. 409.
Emerick, David W., Kilgore, Nebr. Draft-equalizer. No. 1,045,010; Nov. 19; Gaz. vol. 184; p. 745.
Emerick, George S., Nazareth, Pa. Grinding-mill. No. 1,028,867; June 11; Sp. p. 1728; Gaz. vol. 179; p. 302.
Emerson-Brantingham Company. (See Smith, Orbin F., assignor.)
Emerson-Brantingham Company. (See Waterman, Lewis E., assignor.)
Emerson-Brantingham Company. (See Wyman, Alton L., assignor.)
Emerson Electric Manufacturing Company. (See Finch, Herbert I., assignor.)
Emerson Electric Mfg. Co. (See Schnaus, Charles J., assignor.)
Emerson, Frederic M., assignor to Emerson & Norris Co., Boston, Mass. Wall. No. 1,034,770; Aug. 6; Gaz. vol. 181; p. 124.
Emerson, Jerome E., Lockport, N. Y. Indicator-gage. No. 1,016,616; Feb. 6; Sp. p. 889; Gaz. vol. 175; p. 133.
Emerson & Norris Co. (See Emerson, Frederic M., assignor.)
Emerson Typewriter Co., The. (See Pfau, Max, assignor.)
Emerson Typewriter Co., The. (See Stieg, August, assignor.)
Emerson Typewriter Company. (See Raber, Joseph, assignor.)
Emerson, Victor H., New York, N. Y., assignor to American Graphophone Company, Bridgeport, Conn. Reproducer for graphophones. No. 1,026,084; May 14; Sp. p. 2208; Gaz. vol. 178; p. 372.
Emert, John H., Peoria, assignor to Emert Manufacturing Company, Pleasant Hill, Ill. Truck for agricultural implements. No. 1,038,325; Sept. 10; Gaz. vol. 182; p. 417.

Alphabetical list of patentees—Continued.

Emert, John H., Peoria, assignor to Emert Manufacturing Company, Pleasant Hill, Ill. Equalizer. No. 1,038,326; Sept. 10; Gaz. vol. 182; p. 418.
Emert Manufacturing Company. (See Emert, John H., assignor.)
Emery, Albert H., Stamford, Conn. Fulcrum for scales. No. 1,041,609; Oct. 15; Gaz. vol. 183; p. 716.
Emery, Albert H., Stamford, Conn. Jar or bottle closure. No. 1,044,365; Nov. 12; Gaz. vol. 184; p. 491.
Emery, Arthur G., Alliance, Ohio. Bail for paint-buckets and the like. No. 1,024,841; Apr. 30; Sp. p. 6681; Gaz. vol. 177; p. 1175.
Emery, Arthur L. (See Roberts and Emery.)
Emery, Edward C., Los Angeles, Cal. Apparatus for treating waste. No. 1,030,169; June 18; Sp. p. 4556; Gaz. vol. 179; p. 787.
Emery, Edwin A., Cripple Creek, assignor to The Emery Pneumatic Lubricator Company, Denver, Colo. Lubricating pneumatic machinery. No. 1,019,772; Mar. 12; Sp. p. 1662; Gaz. vol. 176; p. 289.
Emery, Edwin A., Denver, Colo., assignor to The Emery Pneumatic Lubricator Company. Solid lubricating compound for compressed-air apparatus. No. 1,020,893; Mar. 19; Sp. p. 4011; Gaz. vol. 176; p. 700.
Emery, Edwin A., Denver, Colo., assignor to The Emery Pneumatic Lubricator Company. Lubricating emulsion. No. 1,035,868; Aug. 20; Gaz. vol. 181; p. 564.
Emery, Frederick H. (See Griffin, Austin L., assignor.)
Emery, Frederick H., Scranton, Pa. Slate-picker. No. 1,013,647; Jan. 2; Sp. p. 1227; Gaz. vol. 174; p. 193.
Emery, Frederick H., Scranton, Pa. Shaker-picker. No. 1,013,648; Jan. 2; Sp. p. 1228; Gaz. vol. 174; p. 194.
Emery, George H., assignor to The Des Moines Clay Manufacturing Company, Des Moines, Iowa. Brick. No. 1,027,407; May 28; Sp. p. 5119; Gaz. vol. 178; p. 899.
Emery, James P., and E. H. Rossner, Blue Island, Ill. Cooler for milk, cream, and water. No. 1,027,706; May 28; Sp. p. 5722; Gaz. vol. 178; p. 997.
Emery, John E., Winchester, and D. E. Hunter, Cambridge, assignors, by mesne assignments, to John S. Emery & Company, Inc., Boston, Mass. Machine for slitting the shells of nuts. No. 1,019,031; Mar. 5; Sp. p. 32; Gaz. vol. 176; p. 9.
Emery, Louis, New York, N. Y. Fly-trap. No. 1,040,295; Oct. 8; Gaz. vol. 183; p. 239.
Emery, Plato G., Chicago, Ill. Sash-lock. No. 1,032,534; July 16; Gaz. vol. 180; p. 665.
Emery Pneumatic Lubricator Company, The. (See Emery, Edwin A., assignor.)
Emery, Thomas O., and J. M. Day, Wood Lake, Nebr.; said Emery assignor to said Day. Gate-fastener. No. 1,022,389; Apr. 2; Sp. p. 1319; Gaz. vol. 177; p. 214.
Emil Weissbrod & Sons. (See Walsh, Harriet M., assignor.)
Emma Lang Investment Company. (See Gamble, Walter H., assignor.)
Emma Lang Investment Company. (See Holden, Harry, assignor.)
Emmenegger, Frank, St. Louis, Mo. Spoon. No. 1,044,869; Nov. 19; Gaz. vol. 184; p. 696.
Emmerich, Frederick. (See Lowry and Emmerich.)
Emmert, Charles S., Chicago, Ill. Binding-machine. No. 1,014,212; Jan. 9; Sp. p. 2481; Gaz. vol. 174; p. 417.
Emmons Bros. Company. (See Martin, William W., assignor.)
Emmons, Fanny J. (See Emmons, Louis C., assignor.)
Emmons, Louis C., assignor to F. J. Emmons, Cedar Falls, Iowa. Knockdown heating apparatus for corn-cribs. No. 1,023,787; Apr. 16; Sp. p. 4254; Gaz. vol. 177; p. 747.
Empire Brass Manufacturing Company, The. (See Cochran, Wesley E., assignor.)
Empire Duplex Gin Company. (See Cheesman, James E., assignor.)
Empire State Metal Wheel Company. (See Babcock, George E., assignor.)
Empire Tire Company. (See Satterthwaite, Joseph N., assignor.)
Empire Voting Machine Co. (See Keiper, Frank, assignor.)
Empire Voting Machine Company. (See Cooper, Henry C. H., assignor.)
Empire Voting Machine Company. (See Dean, James H., assignor.)
Empire Voting Machine Company. (See Lausterer, William J., assignor.)
Empire Voting Machine Company. (See McKenzie, Angus, assignor.)
Empire Voting Machine Company. (See Wright, Francis M., assignor.)
Emrick, Frank C., and P. G. Safford, St. Louis, Mo.; said Emrick assignor to said Safford. Sad-iron. No. 1,025,906; May 7; Sp. p. 1787; Gaz. vol. 178; p. 275.
Emrick, George W., Brooklyn, N. Y., assignor to Automatic Drill Chuck Corporation. Drill-chuck. No. 1,030,988; July 2; Gaz. vol. 180; p. 48.
Emringer, Jules, Paris, France. Means for producing and exhibiting luminous signs. No. 1,038,736; Sept. 17; Gaz. vol. 182; p. 596.
Emtman, Theodore, Los Angeles, Cal. Swivel pan-joint. No. 1,031,777; July 9; Gaz. vol. 180; p. 365.
Emtman, Theodore, Los Angeles, Cal. Concrete-delivery apparatus. No. 1,031,778; July 9; Gaz. vol. 180; p. 365.
Emtman, Theodore, Los Angeles, Cal. Metal window-sash. No. 1,031,779; July 9; Gaz. vol. 180; p. 365.
Endemann, Hubert, Vienna, Austria-Hungary. Type-bar pivot. No. 1,040,658; Oct. 8; Gaz. vol. 183; p. 369.
Enderis, H. W. (See Brown, Walter S., assignor.)
Enderlin, Camille. (See Raclot and Enderlin.)
Eudorf, Charles, Jr., assignor to Commercial Electric Motor Mfg. Co., Chicago, Ill. Massage apparatus. No. 1,029,999; June 11; Sp. p. 2030; Gaz. vol. 179; p. 349.
Endsley, Horace F., Texarkana, Tex. Currycomb and brush. No. 1,025,793; May 7; Sp. p. 1499; Gaz. vol. 178; p. 237.
Endsley, Louis E. (See Van Horn and Endsley.)
Enell, Otto E., assignor to Buffalo Specialty Company, Buffalo, N. Y. Can-cover loosener. No. 1,027,113; May 21; Sp. p. 4518; Gaz. vol. 178; p. 761.
Engberg, Arvid L., Lynn, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for use in the manufacture of boots and shoes. No. 1,023,826; Apr. 23; Sp. p. 4391; Gaz. vol. 177; p. 789.
Engberg, Arvid L., Lynn, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Tack-saving device. No. 1,029,857; June 18; Sp. p. 3913; Gaz. vol. 179; p. 681.
Engberg, Arvid L., Lynn, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Mechanism for inserting fastenings. No. 1,030,572; June 25; Sp. p. 5559; Gaz. vol. 179; p. 970.
Engberg, Ephraim O., Salt Lake City, Utah, assignor to J. B. Patton, Kent, Ohio. Tacking device. No. 1,041,987; Oct. 22; Gaz. vol. 183; p. 884.
Engberg, Otto, Detroit, Minn. Faucet. No. 1,013,142; Jan. 2; Sp. p. 102; Gaz. vol. 174; p. 18.
Engebritson, Edward, F. Yuha, and F. Doebriner, Crosby, N. D. Device for burning weeds on beds of railway-tracks. No. 1,026,026; May 14; Sp. p. 2038; Gaz. vol. 178; p. 351.
Engel, Arthur F., New York, N. Y., assignor to The Oliver Typewriter Company, Chicago, Ill. Ribbon-throw mechanism for type-writing machines. No. 1,020,404; Mar. 19; Sp. p. 2957; Gaz. vol. 176; p. 537.
Engel, August, assignor to Milwaukee Brass Manufacturing Company, Milwaukee, Wis. Bubble-cup nozzle. No. 1,020,405; Mar. 19; Sp. p. 2959; Gaz. vol. 176; p. 537.
Engel, Frank, Buffalo, assignor, by mesne assignments, to The United States Light & Heating Company, New York, N. Y. Machine for pasting storage-battery grids. No. 1,039,715; Oct. 1; Gaz. vol. 183; p. 15.
Engel, Frank, Buffalo, assignor, by mesne assignments, to The United States Light & Heating Company, New York, N. Y. Casting-machine. No. 1,041,051; Oct. 15; Gaz. vol. 183; p. 532.
Engel, Karl, Revere, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for forming uppers of boots and shoes. No. 1,027,408; May 28; Sp. p. 5119; Gaz. vol. 178; p. 899.
Engelhard, Frank, F. H., and W. A., Springfield, Mass. Float. No. 1,046,162; Dec. 3; Gaz. vol. 185; p. 125.
Engelhard, Frederick H. (See Engelhard, Frank, F. H., and W. A.)
Engelhard, William A. (See Engelhard, Frank, F. H., and W. A.)
Engelhardt, Otto. (See Radunz and Engelhardt.)
Engelmann, Max, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Disinfecting-soap. No. 1,027,707; May 28; Sp. p. 5724; Gaz. vol. 178; p. 997.
Engelmann, Max, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Pharmaceutical products. No. 1,034,092; July 30; Gaz. vol. 180; p. 1258.
Engelmann, Max, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. 2-alkoxy-5-disubstituted barbituric acids. No. 1,038,101; Sept. 10; Gaz. vol. 182; p. 343.
Engelmann, Max, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. 2-alkoxy-5-monosubstituted barbituric acids. No. 1,038,102; Sept. 10; Gaz. vol. 182; p. 343.
Engelmann, Max, and B. Merkel, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Alkyl ether of isourea. No. 1,028,936; June 11; Sp. p. 1891; Gaz. vol. 179; p. 327.
Engelmann, Max, B. Merkel, and G. Wesenberg, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Disinfecting agents. No. 1,034,093; July 30; Gaz. vol. 180; p. 1258.
Engelsmann, August, Charlottenburg, Germany. Apparatus for showing kinematographic pictures. No 1,019,141; Mar. 5; Sp. p. 305; Gaz. vol. 176; p. 47.
Engi, Gadient, assignor to Society of Chemical Industry in Basle, Basel, Switzerland. Colored condensation product and making same. No. 1,043,682; Nov. 5; Gaz. vol. 184; p. 225.
Engi, Gadient, and J. Fröhlich, assignors to Society of Chemical Industry in Basle, Basel, Switzerland. Dyeing and the product thereof. No. 1,026,574; May 14; Sp. p. 3245; Gaz. vol. 178; p. 537.
Engineer Company, The. (See Quinn, John C., assignor.)

Alphabetical list of patentees—Continued.

England, Alexander, Wilkinsburg, assignor to The Westinghouse Air-Brake Company, Pittsburgh, Pa. Compound air-compressor. No. 1,034,602; Aug. 6; Gaz. vol. 181; p. 66.
England, Ivy H., Hendersonville, N. C. Wagon-standard. No. 1,028,816; June 4; Sp. p. 1609; Gaz. vol. 179; p. 251.
England, James R., Columbus, Ga. Planing and jointing machine attachment. No. 1,032,278; July 9; Gaz. vol. 180; p. 535.
England, William, Callao, Peru. Telegram-blank. No. 1,028,695; June 4; Sp. p. 1345; Gaz. vol. 179; p. 209.
Englander, Max. (See Easton, William S., assignor.)
Englander Spring Bed Company, The. (See Halpin, Michael J., assignor.)
Engle, Charles J., B. W. Freeman, and D. E. Neal, Moline, Ill. Steering-gear. No. 1,029,052; June 11; Sp. p. 2135; Gaz. vol. 179; p. 368.
Engle, David E., Kiefer, Okla., assignor of one-half to A. Leschen & Sons Rope Company, St. Louis, Mo. Coupling device. No. 1,018,556; Feb. 27; Sp. p. 5209; Gaz. vol. 175; p. 905.
Engle, Edward, Pittsburg, Kans. Cattle-guard. No. 1,028,007; May 28; Sp. p. 6400; Gaz. vol. 178; p. 1098.
Engle, George W., Canton, S. D. Crossing-grate. No. 1,035,695; Aug. 13; Gaz. vol. 181; p. 467.
Engle, Matthew H., San Antonio, Tex. Attachment for windmills. No. 1,019,142; Mar. 5; Sp. p. 306; Gaz. vol. 176; p. 47.
Engle, William H., Port Costa, Cal. Telegraph instrument. No. 1,049,066; Dec. 31; Gaz. vol. 185; p. 1266.
Englebright, William F., Nevada City, Cal. Water-meter. No. 1,038,327; Sept. 10; Gaz. vol. 182; p. 418.
Englebright, William F., Nevada City, Cal. Miner's-inch weir. No. 1,042,097; Oct. 22; Gaz. vol. 183; p. 921.
Engler, Armand, Paris, France. Device for ball games. No. 1,022,186; Apr. 2; Sp. p. 918; Gaz. vol. 177; p. 147.
Englesson, John E., Karlskrona, Sweden, assignor to Allis-Chalmers Company, Milwaukee, Wis. Fluid-pressure regulator. No. 1,044,444; Nov. 12; Gaz. vol. 184; p. 517.
English Company, The. (See English, Peter, assignor.)
English, John C. (See Johnson and English.)
English, John C., Camden, N. J., assignor to Victor Talking Machine Company. Talking-machine. No. 1,016,255; Feb. 6; Sp. p. 23; Gaz. vol. 175; p. 6.
English, John C., Camden, N. J., assignor to Victor Talking Machine Company. Amplifier for sound-reproducing devices. No. 1,022,582; Apr. 9; Sp. p. 1747; Gaz. vol. 177; p. 308.
English, John C., Camden, N. J., assignor to Victor Talking Machine Company. Talking-machine. No. 1,042,098; Oct. 22; Gaz. vol. 183; p. 921.
English, Frederick A., assignor to Birtman Electric Company, Chicago, Ill. Suction-cleaner. No. 1,033,563; July 23; Gaz. vol. 180; p. 1051.
English, Henry C., assignor to J. W. Carter, Jr., Wilmington, Del. Water-heating furnace. No. 1,027,327; May 21; Sp. p. 4945; Gaz. vol. 178; p. 832.
English, Mary I., Washington, D. C. Garter. No. 1,046,283; Dec. 3; Gaz. vol. 185; p. 169.
English & Mersick Co., The. (See Krah, Alexis, assignor.)
English & Mersick Co., The. (See Pfleghar, Frank P., assignor.)
English & Mersick Co., The. (See Williams, Gordon, assignor.)
English, Norman, Detroit, Mich. Valve. No. 1,042,775; Oct. 29; Gaz. vol. 183; p. 1181.
English, Peter, assignor to M. P. Ropp, San Francisco, Cal. Reversible hydraulic transmission. No. 1,028,451; June 4; Sp. p. 859; Gaz. vol. 179; p. 129.
English, Peter, San Francisco, Cal., assignor, by mesne assignments, to The English Company. Gas-engine starter. No. 1,044,366; Nov. 12; Gaz. vol. 184; p. 491.
English, William, Sumner, Ill. Steam-engine. No. 1,025,385; May 7; Sp. p. 624; Gaz. vol. 178; p. 97.
English, William M., Sausalito, Cal. Salt-cellar. No. 1,027,467; May 28; Sp. p. 5232; Gaz. vol. 178; p. 918.
Englund, Edwin H. L., Muskegon, Mich. Hose-coupling. No. 1,022,624; Apr. 9; Sp. p. 1839; Gaz. vol. 177; p. 322.
Englund, Paul J., Falun, Kans. Pusher attachment for sweep-rakes. No. 1,030,292; June 25; Sp. p. 4855; Gaz. vol. 179; p. 869.
Engstrand, Gunnar C., Tompkinsville, N. Y. Floating dry-dock. No. 1,043,411; Nov. 5; Gaz. vol. 184; p. 130.
Engstrand, Theodor, Dansville, N. Y. Combination bed, chair, and table. No. 1,046,163; Dec. 3; Gaz. vol. 185; p. 125.
Engstrom, Arthur A., Springfield, Mass. Safety device for cranking automobiles. No. 1,040,296; Oct. 8; Gaz. vol. 183; p. 239.
Engstrom, Emil T., *et al.* (See Larson, John B., assignor.)
Engstrom, Jacob B., Manchester, Iowa. Tile-machine. No. 1,022,933; Apr. 9; Sp. p. 2522; Gaz. vol. 177; p. 430.
Ennis, Della M. (See Weaver and Ennis.)
Ennis, Ora J., Martinsville, Ind. Railway-rail tie. No. 1,045,535; Nov. 26; Gaz. vol. 184; p. 959.
Ennis, Parry E., assignor to Sanitary Steel Couch Company, Chicago, Ill. Couch. No. 1,045,960; Dec. 3; Gaz. vol. 185; p. 56.
Eno, Frank F., Boston, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Work-gage for fastener-inserting machines. (Reissue.) No. 13,438; July 9; Gaz. vol. 180; p. 566.
Enochs, Claude D., La Crosse, Wis., assignor to The Vote Berger Company. Guy-wire anchor. No. 1,044,870; Nov. 19; Gaz. vol. 184; p. 697.
Enochs, Phillip H. (See Gilmer, John T., assignor.)
Enos, Frank, Jr., assignor to The Norwich Automatic Feeder Co., Norwich, Conn. Poultry feeder and exerciser. No. 1,023,365; Apr. 16; Sp. p. 3443; Gaz. vol. 177; p. 615.
Enright, John, Cleveland, Ohio. Fire-alarm. No. 1,015,878; Jan. 30; Sp. p. 6127; Gaz. vol. 174; p 1069.
Enright, John A., Columbus, Ohio. Attachment for shoe-heels. No. 1,021,510; Mar. 26; Sp. p. 5353; Gaz. vol. 176; p. 963.
Enright, John W., New Orleans, La. Resilient wheel. No. 1,018,307; Feb. 20; Sp. p. 4581; Gaz. vol. 175; p. 786.
Ensign-Bickford Company, The. (See Ellsworth, Henry E., assignor.)
Ensign, George A., assignor to Defiance Machine Works, Defiance, Ohio. Wheel-rim-jointing machine. No. 1,037,748; Sept. 3; Gaz. vol. 182; p. 190.
Ensign, George A., assignor to Defiance Machine Works, Defiance, Ohio. Tension device for band-saws. No. 1,038,328; Sept. 10; Gaz. vol. 182; p. 419.
Ensign, George A., assignor to Defiance Machine Works, Defiance, Ohio. Wheel-rim equalizing and truing machine. No. 1,038,544; Sept. 17; Gaz. vol. 182; p. 529.
Ensign, George A., assignor to Defiance Machine Works, Defiance, Ohio. Wheel boring and facing machine. No. 1,039,503; Sept. 24; Gaz. vol. 182; p. 876.
Ensign, George A., assignor to Defiance Machine Works, Defiance, Ohio. Assembling-machine. No. 1,040,910; Oct. 8; Gaz. vol. 183; p. 449.
Ensign, Helena A., *et al.*, administrators. (See Strong, Marquis H.)
Ensign, Orville H., assignor of one-half to P. H. Blades, Los Angeles, Cal. Reversible internal-combustion engine. No. 1,042,540; Oct. 29; Gaz. vol. 183; p. 1098
Ensley, Benjamin F. and C. E., Moulton, Iowa, assignors of one-half to W. S. Farrar, Lincoln, Nebr., and L. M. Clark, Moulton, Iowa. Bracket for automobile-lamps. No. 1,015,670; Jan. 23; Sp. p. 5690; Gaz. vol. 174; p. 972.
Ensley, Clarence E. (See Ensley, Benjamin F. and C. E.)
Enslin, Herbert E., Malden, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for lacing shoe-uppers. No. 1,030,573; June 25; Sp. p. 5566; Gaz. vol. 179; p. 970.
Ensslen, Jacob, Pittsburgh, Pa. Process and apparatus for casting ingots. No. 1,024,722; Apr. 30; Sp. p. 6428; Gaz. vol. 177; p. 1132.
Ensslin, Adolf, North Attleboro, Mass. Safety device. No. 1,025,386; May 7; Sp. p. 625; Gaz. vol. 178; p. 97.
Enterprise Bed Company. (See Lehmann, Emil, assignor.)
Enterprise Manufacturing Company of Pennsylvania, The. (See Brown, John W., Jr., assignor.)
Enterprise Manufacturing Company of Pennsylvania, The. (See Hall, Harry F., assignor.)
Enterprise Manufacturing Company of Pennsylvania, The. (See Yeager, Herbert W., assignor.)
Enterprise Optical Mfg. Company, The. (See Roebuck, Alvah C., assignor.)
Enterprise Railway Equipment Company. (See Campbell, Argyle, assignor.)
Entz, Justus B., Cleveland, Ohio, assignor to General Electric Company. Electric meter. No. 1,046,750; Dec. 10; Gaz. vol. 185; p. 373.
Eppenstein, Otto, assignor to Firm of C. Zeiss, Jena, Germany. Telemeter. No. 1,016,325; Feb. 6; Sp. p. 204; Gaz. vol. 175; p. 31.
Eppenstein, Otto, assignor to Firm of C. Zeiss, Jena, Germany. Coincidence-telemeter. No. 1,021,306; Mar. 26; Sp. p. 4880; Gaz. vol. 176; p. 891.
Eppenstein, Otto, assignor to Firm of C. Zeiss, Jena, Germany. Telemeter. No. 1,022,358; Apr. 2; Sp. p. 1261; Gaz. vol. 177; p. 203.
Epperson, Landy D., assignor of one-third to C. H. Abbett, Kansas City, Mo. Rotary-magazine fuse-box. No. 1,023,929; Apr. 23; Sp. p. 4633; Gaz. vol. 177; p. 824.
Epplhimer, George L. (See Herboldsman and Epplhimer.)
Eppler, Andrew, Boston, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Thread-waxing device for sewing-machines. No. 1,015,304; Jan. 23; Sp. p. 4884; Gaz. vol. 174; p. 846.
Eppler, Andrew, Boston, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Welt-preparing machine. No. 1,020,346; Mar. 12; Sp. p. 2827; Gaz. vol. 176; p. 479.
Eppler, Andrew, Boston, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for preparing welts. No. 1,026,306; May 14; Sp. p. 2681; Gaz. vol. 178; p. 448.

Alphabetical list of patentees—Continued.

Eppler, Andrew, Boston, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Welt-guide for shoe-sewing machines. No. 1,030,721; June 25; Sp. p. 6005; Gaz. vol. 179; p. 1024.
Eppler, Andrew, Boston, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Sewing-machine. No. 1,030,880; July 2; Gaz. vol. 180; p. 11.
Eppler, Andrew, Lynn, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Shoe-turning machine. No. 1,020,812; Mar. 19; Sp. p. 3840; Gaz. vol. 176; p. 673.
Eppler, Andrew, Lynn, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Thread-waxing device. No. 1,023,071; Apr. 9; Sp. p. 2803; Gaz. vol. 177; p. 477.
Eppler, Andrew, Lynn, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Shoe-jack. No. 1,029,000; June 11; Sp. p. 2032; Gaz. vol. 179; p. 349.
Eppstein, Ernest E., Great Bend, Kans. Bundle-tying device. No. 1,033,683; July 23; Gaz. vol. 180; p. 1089.
Epstein, Max, assignor to The German American Car Company, Chicago, Ill. Car. No. 1,029,919; June 18; Sp. p. 4053; Gaz. vol. 179; p. 703.
Epting, Nora L., *et al.* (See Luster, Eugene A., assignor.)
Equilibrator Company. (See Fuerth, William G., assignor.)
Erb, Edmund M., Jersey City, assignor to R. M. Dixon, East Orange, N. J. Sash-locking device. No. 1,025,134; May 7; Sp. p. 51; Gaz. vol. 178; p. 10.
Erb, Harmony S., Lancaster, Pa. Hoof-protector. No. 1,036,592; Aug. 27; Gaz. vol. 181; p. 848.
Erb, Jacob E., Ryder, N. D. Scraping and pulverizing attachment for disk harrows. No. 1,032,998; July 16; Gaz. vol. 180; p. 822.
Erb, Ludwig G. B., *et al.* (See Uebelmesser, Charles R., assignor.)
Erb, Ludwig G. B., *et al.* (See Urie, John, assignor.)
Erbe, Henry C., Java, S. D. Grain or hay deliverer. No. 1,025,794; May 7; Sp. p. 1500; Gaz. vol. 178; p. 237.
Erben, John, Cleveland, Ohio. Cooking stove or range. No. 1,017,043; Feb. 13; Sp. p. 1808; Gaz. vol. 175; p. 314.
Erben, Walter, Radnor, Pa. Apparatus for extracting vegetable-wax. No. 1,033,684; July 23; Gaz. vol. 180; p. 1089.
Erber, Josef. (See Wagner and Erber.)
Erbes, Louis C., St. Paul, Minn. Wheel-tread. No. 1,038,103; Sept. 10; Gaz. vol. 182; p. 343.
Erdale, Bernard, New York, N. Y. Single-use bottle. No. 1,028,696; June 4; Sp. p. 1346; Gaz. vol. 179; p. 210.
Erdmann, Charles F. (See Shearman and Erdmann.)
Erdmann, Emil M., Long Prairie, Minn. Toy. No. 1,047,396; Dec. 17; Gaz. vol. 185; p. 625.
Erdmann, Georg, Berlin, Germany. Cleaning beer-yeast. No. 1,045,689; Nov. 26; Gaz. vol. 184; p. 1013.
Erdmann, Hugo, Charlottenburg, Germany. Refilling aerial vehicles during a flight. No. 1,035,560; Aug. 13; Gaz. vol. 181; p. 423.
Erdreich, Samuel. (See Fox, Joe, assignor.)
Erhardt, Albrecht, Munich, Germany. Photometer. No. 1,027,328; May 21; Sp. p. 4946; Gaz. vol. 178; p. 832.
Erichsen, Adolph C. E., assignor to Gorham Manufacturing Company, Providence, R. I. Pocket-receptacle. No. 1,032,326; July 9; Gaz. vol. 180; p. 551.
Erickson, Anton, assignor of one-half to W. M. Jackson, Portland, Oreg. Adjustable rib-tip-holding umbrella-handle. No. 1,042,417; Oct. 29; Gaz. vol. 183; p. 1054.
Erickson, August C., Tecumseh, Nebr., and L. D. Fletcher, Yates City, Ill. Turn-table. No. 1,040,911; Oct. 8; Gaz. vol. 183; p. 450.
Erickson, Axel W., Hawick, Minn. Spout. No. 1,048,513; Dec. 31; Gaz. vol. 185; p. 1075.
Erickson, Charles A., Minneapolis, Minn. Child's hand-car. No. 1,018,656; Feb. 27; Sp. p. 5412; Gaz. vol. 175; p. 937.
Erickson, Charles J., assignor, by mesne assignments, to First Trust and Savings Bank, trustee, Chicago, Ill. Pole-changer. No. 1,036,817; Aug. 27; Gaz. vol. 181; p. 922.
Erickson, Edward, Beverly, Mass. Holding device. No. 1,037,882; Sept. 10; Gaz. vol. 182; p. 269.
Erickson, Edward, Lynn, assignor to L. E. Johnson, Winthrop, Mass. Sewing-machine. No. 1,033,564; July 23; Gaz. vol. 180; p. 1051.
Erickson, Edwin, near Chancellor, S. D., and T. Erickson, Judith Gap, Mont. Rotary engine. No. 1,020,271; Mar. 12; Sp. p. 2683; Gaz. vol. 176; p. 456.
Erickson, Frederic W., New York, N. Y. Electric-conductor distribution. No. 1,015,484; Jan. 23; Sp. p. 5296; Gaz. vol. 174; p. 908.
Erickson, Frederic W., New York, N. Y. Outlet-bushing. No. 1,030,293; June 25; Sp. p. 4857; Gaz. vol. 179; p. 869.
Erickson, Frederic W., New York, N. Y. Sparking plug. No. 1,044,509; Nov. 19; Gaz. vol. 184; p. 570.
Erickson, Frederic W., assignor to Lord Manufacturing Company, New York, N. Y. Coupling for pipes or conduits. No. 1,041,260; Oct. 15; Gaz. vol. 183; p. 603.
Erickson, John, assignor, by mesne assignments, to First Trust and Savings Bank, trustee, Chicago, Ill. Electrical-impulse-transmitting device. No. 1,023,200; Apr. 16; Sp. p. 3130; Gaz. vol. 177; p. 560.
Erickson, John, assignor to Automatic Electric Company, Chicago, Ill. Line-protective device. No. 1,036,818; Aug. 27; Gaz. vol. 181; p. 922.
Erickson, John A., Fairview, Utah. Combined harrow and seed-planter. No. 1,023,631; Apr. 16; Sp. p. 3991; Gaz. vol. 177; p. 701.
Erickson, John E., St. Paul, Minn. Feeding mechanism for machines for cutting and creasing blanks. No. 1,023,558; Apr. 16; Sp. p. 3831; Gaz. vol. 177; p. 676.
Erickson, John E., St. Paul, Minn. Bending-machine. No. 1,028,102; June 4; Sp. p. 20; Gaz. vol. 179; p. 6.
Erickson, John E., Chicago, Ill. Life-boat. No. 1,043,914; Nov. 12; Gaz. vol. 184; p. 336.
Erickson, John E., Chicago, Ill. Apparatus for supporting and lowering life-boats. No. 1,043,915; Nov. 12; Gaz. vol. 184; p. 336.
Erickson, John W., Chicago, Ill. Lamp for motor-cycles. No. 1,036,984; Aug. 27; Gaz. vol. 181; p. 978.
Erickson, Otto, and O. G. Sunden, Chicago, Ill. Resilient tire for vehicle-wheels. No. 1,049,067; Dec. 31; Gaz. vol. 185; p. 1267.
Erickson, Peter, Chicago, Ill. Shaper-guard. No. 1,025,866; May 7; Sp. p. 1661; Gaz. vol. 178; p. 261.
Erickson, Sigvald B., Providence, R. I. Automatic sprinkler. No. 1,024,979; Apr. 30; Sp. p. 6951; Gaz. vol. 177; p. 1222.
Erickson, Theodore. (See Erickson, Edwin and T.)
Erickson, Thomas, Ogden, Utah. Electrical alarm. No. 1,034,223; July 30; Gaz. vol. 180; p. 1303.
Ericson, Charles J., Salt Lake City, Utah. Locking mechanism for doors. No. 1,014,960; Jan. 16; Sp. p. 4179; Gaz. vol. 174; p. 703.
Ericson, Oscar F., Stratford, Iowa. Combined windmill derrick and reservoir. No. 1,035,431; Aug. 13; Gaz. vol. 181; p. 379.
Erie City Iron Works. (See Ferrari, Carl, assignor.)
Erie Stamping & Mfg. Co. (See Diefendorf, Edward G., assignor.)
Erikson, Leonard, Malden, Mass. Lamp-fixture insulating-base. No. 1,044,035; Nov. 12; Gaz. vol. 184; p. 378.
Erixon, John, Åled, assignor to G. T. Schele, Halmstad, Sweden. Machine for making wood shavings. No. 1,031,434; July 2; Gaz. vol. 180; p. 205.
Erkens, Charles R., assignor to Simplex Aluminum Solder Company, Inc., New York, N. Y. Aluminum-solder. No. 1,033,565; July 23; Gaz. vol. 180; p. 1051.
Erkens, Firm of J. W. (See Geissler, Adalbert, assignor.)
Erlach, Frank, Iron Mountain, Mich. Floor-tread. No. 1,029,675; June 18; Sp. p. 3484; Gaz. vol. 179; p. 617.
Erlandson, August, Chicago, Ill. Pouring-gate for castings. No. 1,030,066; June 18; Sp. p. 4362; Gaz. vol. 179; p. 752.
Ermentrout, William H., Reading, Pa. Drying mechanism for hosiery. No. 1,037,224; Sept. 3; Gaz. vol. 182; p. 16.
Ermold, Edward, New York, N. Y. Bottle-labeling machine. No. 1,023,143; Apr. 16; Sp. p. 3003; Gaz. vol. 177; p. 540.
Ernst, Charles A., Schenectady, N. Y., assignor to General Electric Company. Electrode. No. 1,019,443; Mar. 5; Sp. p. 1015; Gaz. vol. 176; p. 149.
Ernst, Charles K., Buffalo, N. Y. Hoisting apparatus. No. 1,038,329; Sept. 10; Gaz. vol. 182; p. 419.
Erpicum, François, Grand' Axhe, Belgium. Brick-molding machine. No. 1,033,092; July 23; Gaz. vol. 180; p. 893.
Erquhart, Allen S., and J. C. Hummel, Coalinga, Cal. Pipe-wrench. No. 1,030,881; July 2; Gaz. vol. 180; p. 11.
Erskine, Bernard G., assignor to Novelty Incandescent Lamp Company, Emporium, Pa. Incandescent-electric-lamp leak-tester. No. 1,014,287; Jan. 9; Sp. p. 2657; Gaz. vol. 174; p. 443.
Erskine, John H., Charleston, W. Va. Stairway-ladder. No. 1,019,444; Mar. 5; Sp. p. 1016; Gaz. vol. 176; p. 149.
Erste Triester Reisschael-Fabriks-Actien-Gesellschaft. (See Walland, Henrich, assignor.)
Ertle, William J., Rocklin, Cal. Bush-hammer. No. 1,018,892; Feb. 27; Sp. p. 5900; Gaz. vol. 175; p. 1017.
Ervien, Horace, Ogontz, Pa. Door-curtain for vehicles. No. 1,047,017; Dec. 10; Gaz. vol. 185; p. 460.
Erwin, Otto. (See Myers and Erwin.)
Erwin, William W., New York, N. Y. Automatic burglar-alarm. No. 1,030,067; June 18; Sp. p. 4364; Gaz. vol. 179; p. 753.
Escamilla, Simon, Ciudad Victoria, Mexico, assignor to Sargent & Company, New Haven, Conn. Tortilla-molding machine. No. 1,036,593; Aug. 27; Gaz. vol. 181; p. 848.
Escarras, Gabriel. (See Carsalade du Pont, Paul de, assignor.)
Esche, Moritz S., Chemnitz, Germany. Welting mechanism for flat hosiery-frames. No. 1,024,842; Apr. 30; Sp. p. 6683; Gaz. vol. 177; p. 1176.
Eschelbacher, Emanuel, New York, N. Y. Clothes-line support. No. 1,033,566; July 23; Gaz. vol. 180; p. 1052.

Alphabetical list of patentees—Continued.

Eschellmann, Georg, and A. Harmuth, St. Petersburg, Russia, assignors to General Chemical Company, New York, N. Y. Contact-chamber. No. 1,030,508; June 25; Sp. p. 5365; Gaz. vol. 179; p. 947.
Eschellmann, Georg, and A. Harmuth, St. Petersburg, Russia, assignors to General Chemical Company, New York. N. Y. Effecting exothermic gas reactions. No. 1,036,473; Aug. 20; Gaz. vol. 181; p. 773.
Escher, Gustav E., South Orange, N. J. Soffit-clip. No. 1,028,559; June 4; Sp. p. 1084; Gaz. vol. 179; p. 165.
Escher, Josef, Indianapolis, Ind. Combined curtain and shade support. No. 1,015,879; Jan. 30; Sp. p. 6129; Gaz. vol. 174; p. 1069.
Escherich, Francis H., Washington, D. C. Nursing-bottle holder. No. 1,040,659; Oct. 8; Gaz. vol. 183; p. 370.
Eshborn, Herman, New York, N. Y. Lady's undergarment. No. 1,033,235; July 23; Gaz. vol. 180; p. 943.
Eshelman, Charles G., Franklin, Pa. Valve. No. 1,021,511; Mar. 26; Sp. p. 5354; Gaz. vol. 176; p. 964.
Eskew, Sidney E., Benton, Ill. Attachment for ladders. No. 1,033,685; July 23; Gaz. vol. 180; p. 1089.
Eskholme, John W. (See Coyne and Eskholme.)
Eskholme, John W. (See Coyne, Taylor, and Eskholme.)
Eskilson, Sven A. (See Dalén and Eskilson.)
Esler, Peter G., North Kaukauna, Wis. Hose-carriage. No. 1,022,583; Apr. 9; Sp. p. 1750; Gaz. vol. 177; p. 308.
Eslick, Albert J., Jr., Golden, Colo. Tool-housing. No. 1,028,008; May 28; Sp. p. 6401; Gaz. vol. 178; p. 1098.
Eslon, Victor E., assignor of one-half to C. Olsen, Tacoma, Wash. Mechanism for diffusing light. No. 1,020,813; Mar. 19; Sp. p. 3842; Gaz. vol. 176; p. 673.
Esnault-Pelterie, Robert, Billancourt, France. Aeroplane. No. 1,024,928; Apr. 30; Sp. p. 6862; Gaz. vol. 177; p. 1206.
Esnault-Pelterie, Robert, Billancourt, France. Aeroplane. No. 1,024,929; Apr. 30; Sp. p. 6864; Gaz. vol. 177; p. 1206.
Esnault-Pelterie, Robert, Billancourt, France. Aeroplane. No. 1,040,533; Oct. 8; Gaz. vol. 183; p. 321.
Essberger, John A., Berlin-Schöneberg, Germany. Electrically-operated driving-gear. No. 1,022,666; Apr. 9; Sp. p. 1929; Gaz. vol. 177; p. 337.
Essberger, John A., Berlin, Germany. Lifting and transporting apparatus for projectiles. No. 1,047,773; Dec. 17; Gaz. vol. 185; p. 759.
Esser, Bertram J., Pilot Grove, Mo. Gate. No. 1,014,585; Jan. 9; Sp. p. 3252; Gaz. vol. 174; p. 543.
Esser, Peter, Paterson, N. J. Sharpening device. No. 1,018,177; Feb. 20; Sp. p. 4329; Gaz. vol. 175; p. 743.
Essex Manufacturing Company. (See Foster, Rolon W., assignor.)
Essick, Thomas L. (See Henderson and Essick.)
Essick, William W., Reading, Pa. Eyeglasses. No. 1,026,386; May 14; Sp. p. 2866; Gaz. vol. 178; p. 475.
Essington, Harry M., Wells, Mich. Photographic-printing device. No. 1,034,771; Aug. 6; Gaz. vol. 181; p. 124.
Essig, Ralph R., Canton, Ohio. Toy. No. 1,031,990; July 9; Gaz. vol. 180; p. 437.
Essmueller Mill Furnishing Company. (See Berblinger, August, assignor.)
Esson, James. (See Rodway and Esson.)
Estel, Gottfried A., Jacob, Ill. Well-auger point. No. 1,025,967; May 14; Sp. p. 1917; Gaz. vol. 178; p. 330.
Estell, Samuel F., Florence, Cal. Electrical fuse. No. 1,022,834; Apr. 9; Sp. p. 2319; Gaz. vol. 177; p. 396.
Estelle, Axel T. K., Stockholm, Sweden. Anode for use by electrolysis of alkaline-salt solutions. No. 1,041,261; Oct. 15; Gaz. vol. 183; p. 603.
Esten, William E., Pawtucket, assignor of one-half to E. H. Howard, Providence, R. I. Tripping mechanism for elevator-well gates. No. 1,041,760; Oct. 22; Gaz. vol. 183; p. 805.
Estes, Charles E., Medusa, assignor of one-fourth to L. B. Scutt, Livingstonville, and three-fourths to N. O. Estes, Medusa, N. Y. Railway-switch. No. 1,029,349; June 11; Sp. p. 2784; Gaz. vol. 179; p. 469.
Estes, Charles N., assignor of one-half to R. B. Estes and one-half to J. F. Wylie, Atlanta, Ga. Sash-lock. No. 1,024,681; Apr. 30; Sp. p. 6347; Gaz. vol. 177; p. 1118.
Estes, James H., Union City, Ga. Back-band hook. No. 1,023,999; Apr. 23; Sp. p. 4779; Gaz. vol. 177; p. 848.
Estes, Nellie O., *et al.* (See Estes, Charles E., assignor.)
Estes, Rufus B., *et al.* (See Estes, Charles N., assignor.)
Estey, Ernest J., Kerman, and A. W. Rhodes, Fresno, Cal. Root-separator. No. 1,041,052; Oct. 15; Gaz. vol. 183; p. 532.
Estlin, Eustace S., Winnipeg, Manitoba, Canada. Dust-collecting tank for street-sweepers. No. 1,030,773; June 25; Sp. p. 6145; Gaz. vol. 179; p. 1042.
Esty Sprinkler Company. (See Esty, William, assignor.) (Reissue.)
Esty, William, Laconia, N. H., assignor to Esty Sprinkler Company. Automatic fire-extinguisher. (Reissue.) No. 13,347; Jan. 2; Sp. p. 1693; Gaz. vol. 174; p. 268.
Etchells, James. (See Crouch and Etchells.)
Etchison, Roy P., Swissvale, Pa. Rail-joint. No. 1,022,835; Apr. 9; Sp. p. 2321; Gaz. vol. 177; p. 397.
Etienne, Albert, St.-Benoit-sur-Loire, assignor to R. Lory, Paris, France. Apparatus for making wigs and false fringes. No. 1,017,253; Feb. 13; Sp. p. 2284; Gaz. vol. 175; p. 388.
Etmian, John M., Mapleton, N. D. Apparatus for handling wagon-bodies. No. 1,040,177; Oct. 1; Gaz. vol. 183; p. 169.
Etrich, Ignaz, Oberalstadt, near Trautenau, Austria-Hungary. Driving device for the spindles of spinning-machines. No. 1,042,659; Oct. 29; Gaz. vol. 183; p. 1141.
Ette, Charles G., assignor to Ette Investment Company, St. Louis, Mo. Metallic cross-arm for poles. No. 1,027,708; May 28; Sp. p. 5725; Gaz. vol. 178; p. 998.
Ette, Charles G., assignor to Ette Investment Company, St. Louis, Mo. Pole cross-arm. No. 1,027,709; May 28; Sp. p. 5727; Gaz. vol. 178; p. 998.
Ette, Charles G., assignor to Ette Investment Company, St. Louis, Mo. Pole cross-arm. No. 1,027,710; May 28; Sp. p. 5729; Gaz. vol. 178; p. 998.
Ette, Charles G., assignor to Ette Investment Company, St. Louis, Mo. Pole cross-arm. No. 1,027,711; May 28; Sp. p. 5730; Gaz. vol. 178; p. 998.
Ette, Charles G., assignor to Ette Investment Company, St. Louis, Mo. Insulator-supporting device. No. 1,027,712; May 28; Sp. p. 5732; Gaz. vol. 178; p. 999.
Ette, Charles G., assignor to Ette Investment Company, St. Louis, Mo. Insulator-supporting device. No. 1,030,574; June 25; Sp. p. 5581; Gaz. vol. 179; p. 970.
Ette, Charles G., assignor to Ette Investment Company, St. Louis, Mo. Insulator-pin. No. 1,045,536; Nov. 26; Gaz. vol. 184; p. 959.
Ette Investment Company. (See Ette, Charles G., assignor.)
Etter, William H., Marietta, Ohio. Window-screen. No. 1,026,501; May 14; Sp. p. 3108; Gaz. vol. 178; p. 513.
Ettinghaus, John, Lakewood, N. J. Rake attachment. No. 1,032,535; July 16; Gaz. vol. 180; p. 665.
Ettl, John, Leonia, N. J. Pantographic apparatus for use of sculptors. No. 1,037,460; Sept. 3; Gaz. vol. 182; p. 97.
Etzold, John A., Detroit, Mich. Vehicle-wheel. No. 1,027,409; May 28; Sp. p. 5123; Gaz. vol. 178; p. 899.
Etzold, John A., and R. H. North, Detroit, Mich. Adjustable reamer. No. 1,024,399; Apr. 23; Sp. p. 5657; Gaz. vol. 177; p. 985.
Eubank, Judson C., and C. P. Barnett, Kansas City, Mo. Vehicle-wheel. No. 1,040,178; Oct. 1; Gaz. vol. 183; p. 170.
Eubank, Luther, Raymond, Cal. Milk-pail. No. 1,028,339; June 4; Sp. p. 593; Gaz. vol. 179; p. 89.
Eubank, Samuel F., Columbia, assignor of one-third to W. R. Lyon, Campbellsville, Ky. Pump-driving gear. No. 1,040,912; Oct. 8; Gaz. vol. 183; p. 450.
Eubanks, Sayers D., and J. E. McBroom, West Durham, N. C., assignors to Draper Company, Hopedale, Mass. Automatic filling-replenishing loom. No. 1,047,186; Dec. 17; Gaz. vol. 185; p. 549.
Euchenhofer, Alexander, Dayton, Ohio. Garden implement. No. 1,019,773; Mar. 12; Sp. p. 1664; Gaz. vol. 176; p. 290.
Euchenhofer, Edward E., assignor to The Rike Folding Box Company, Dayton, Ohio. Bailing-machine. No. 1,046,453; Dec. 10; Gaz. vol. 185; p. 266.
Eugene Dietzgen Co. (See Allin, Richard F., assignor.)
Euler, Otto, Jackson, Mich. Automobile-controller. No. 1,025,387; May 7; Sp. p. 627; Gaz. vol. 178; p. 98.
Eureka Amusement Co., The. (See Van Sant and Banker, assignors.)
Eureka Double Resilient Tire Mfg. Co. (See Adams, Gideon S., assignor.)
Eureka Fire Hose Manufacturing Company. (See Banta and Stowe, assignors.)
Eureka Machinery Company. (See Dion, Léon, assignor.)
Eureka Mower Company. (See Gilroy, William E., assignor.)
Eureka Table Company. (See Wolf, Theodor, assignor.)
Eustice, Edward A. and E. L., Newton, Iowa. Driving mechanism. No. 1,033,567; July 23; Gaz. vol. 180; p. 1052.
Eustice, Edward L. (See Eustice, Edward A. and E. L.)
Eustis, Frank D. (See McLendon and Eustis, assignors.)
Eustis, George P., Washington, D. C. Rail-joint. No. 1,020,972; Mar. 26; Sp. p. 4188; Gaz. vol. 176; p. 779.
Eustis, John P., Newton, Mass. Making joints for wires or rods. No. 1,045,383; Nov. 26; Gaz. vol. 184; p. 902.
Eustis, Robert I. (See McLendon and Eustis.)
Eustis, Thomas E., *et al.* (See Thomas, George J., assignor.)
Euston, William G., St. Louis, Mo. Resuscitating apparatus. No. 1,031,109; July 2; Gaz. vol. 180; p. 92.
Euterpean Duplicator Company. (See Myers, Edgar W., assignor.)
Evans, Alexander H., Freeport, Ill. Device for utilizing solar heat. No. 1,042,418; Oct. 29; Gaz. vol. 183; p. 1055.
Evans, Almirall & Company. (See Dorais, Samuel, assignor.)
Evans, Anna B., Cheswold, Del. Coffee-strainer. No. 1,040,179; Oct. 1; Gaz. vol. 183; p. 170.

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Evans, Benjamin, Bluefield, W. Va. Mail catcher and deliverer. No. 1,016,819; Feb. 6; Sp. p. 1304; Gaz. vol. 175; p. 200.
Evans, Charles A., Jr. (See Jess, Peter, assignor.)
Evans, Charles E., Weed, Cal. Lumber-jack. No. 1,027,191; May 21; Sp. p. 4670; Gaz. vol. 178; p. 785.
Evans, Charles H., Fraser, Colo. Combined sash weight and lock. No. 1,047,018; Dec. 10; Gaz. vol. 185; p. 460.
Evans, Charles J., Wichita, Kans. Permutation-padlock. No. 1,021,456; Mar. 26; Sp. p. 5223; Gaz. vol. 176; p. 944.
Evans, Charles J., San Francisco, Cal. Black-sand and gold saving machine and undercurrent. No. 1,032,746; July 16; Gaz. vol. 180; p. 740.
Evans, Charles P., Milton, Mass. Clasp. No. 1,023,559; Apr. 16; Sp. p. 3840; Gaz. vol. 177; p. 676.
Evans, Charles W., Rockford, Ill. Footwear. No. 1,046,751; Dec. 10; Gaz. vol. 185; p. 373.
Evans, Cullen C., Minneapolis, Minn. Vulcanizer. No. 1,023,727; Apr. 16; Sp. p. 4149; Gaz. vol. 177; p. 728.
Evans, David H. (See Taylor and Evans.)
Evans, David J. (See Andresen, Herman P., assignor.)
Evans, Ernest W., Robinson, Ill. Pressure-regulator. No. 1,032,052; July 9; Gaz. vol. 180; p. 457.
Evans, Frank G., trustee. (See Raymond, George A., assignor.)
Evans, George, Toronto, Ontario, Canada. Detachable heel. No. 1,033,686; July 23; Gaz. vol. 180; p. 1090.
Evans, George A., New York, N. Y. Inhaler. No. 1,044,367; Nov. 12; Gaz. vol. 184; p. 492.
Evans, George A., New York, N. Y. Vaporizer. No. 1,048,399; Dec. 24; Gaz. vol. 185; p. 997.
Evans, George F., Wimmers, Pa. Means for fastening railway-rails to ties. No. 1,032,474; July 16; Gaz. vol. 180; p. 646.
Evans, George W., and C. E. Logan, Connelsville, Mo. Vending-machine. No. 1,038,330; Sept. 10; Gaz. vol. 182; p. 419.
Evans, Henry R., New York, N. Y., assignor to Granulator Soap Company. Soap-shaving machine. No. 1,045,828; Dec. 3; Gaz. vol. 185; p. 11.
Evans, Humphrey, assignor to Holeproof Hosiery Co., Milwaukee, Wis. Trimming-machine. No. 1,025,968; May 14; Sp. p. 1918; Gaz. vol. 178; p. 331.
Evans, Jacob C., Bellwood, Pa. Rail-tie. No. 1,015,671; Jan. 23; Sp. p. 5691; Gaz. vol. 174; p. 972.
Evans, James M., Westport, Conn. Collapsible sled. No. 1,030,170; June 18; Sp. p. 4559; Gaz. vol. 179; p. 788.
Evans, James M., Westport, Conn. Amplifier for talking-machines. No. 1,036,474; Aug. 20; Gaz. vol. 181; p. 774.
Evans, James M., Westport, Conn. Motor for phonographs and other purposes. No. 1,042,660; Oct. 29; Gaz. vol. 183; p. 1141.
Evans, John L., Columbus, assignor to Baling Tie Buckle Co., Cleveland, Ohio. Buckle for bale-ties. No. 1,034,004; July 30; Gaz. vol. 180; p. 1227.
Evans, John W. (See O'Neil, Charley, assignor.)
Evans, John W. (See Warren, Thomas W., assignor.)
Evans, Joseph E., Bedford, Ind. Sectional track. No. 1,048,668; Dec. 31; Gaz. vol. 185; p. 1130.
Evans, Mark G., and G. W. Logan, Denver, Colo. Clothes-washer. No. 1,016,820; Feb. 6; Sp. p. 1307; Gaz. vol. 175; p. 201.
Evans, Morgan J., Milwaukee, Wis. Door hanger and track. No. 1,041,053; Oct. 15; Gaz. vol. 183; p. 532.
Evans, Owen B. (See Rusby and Evans.)
Evans, Powell, Philadelphia, Pa. Motor-vehicle frame. No. 1,021,512; Mar. 26; Sp. p. 5356; Gaz. vol. 176; p. 964.
Evans, Ralph, Fort Dodge, Iowa. Self-cleaning curry-comb. No. 1,045,384; Nov. 26; Gaz. vol. 184; p. 902.
Evans, Richard H., Riondel, British Columbia, Canada. Oiler. No. 1,042,899; Oct. 29; Gaz. vol. 183; p. 1224.
Evans, Richard J., assignor to Franklin Manufacturing Company, Franklin, Pa. Packing for journal-boxes. No. 1,044,636; Nov. 19; Gaz. vol. 184; p. 615.
Evans, Robert, Cravens, La. Mattress-rack. No. 1,038,865; Sept. 17; Gaz. vol. 182; p. 641.
Evans, Robert M., assignor to Howard Pulp Process Co., Everett, Wash. Classifier for fibrous materials. No. 1,036,475; Aug. 20; Gaz. vol. 181; p. 774.
Evans, Robert T., and W. G. Nord, Youngstown, Ohio. Automatic gas-valve. No. 1,032,194; July 9; Gaz. vol. 180; p. 505.
Evans, Sam S. (See Coppins, Scott R., assignor.)
Evans, Samuel W., Bloomington, Ill. Bird-trap. No. 1,029,053; June 11; Sp. p. 2137; Gaz. vol. 179; p. 368.
Evans Stamping & Plating Company. (See Tuttle, Henry A., assignor.)
Evans, Thomas D., Foster, Iowa. Rail-joint. No. 1,045,777; Nov. 26; Gaz. vol. 184; p. 1043.
Evans, William C., Fort Collins, Colo. Sanitary stall. No. 1,032,747; July 16; Gaz. vol. 180; p. 740.
Evans, William C. L. (See Christopher and Evans.)
Evans, William J., Linnburg, Iowa. Driving mechanism for steering-wheels of motor-vehicles. No. 1,045,778; Nov. 26; Gaz. vol. 184; p. 1043.
Evans, William T., and B. F. Reilly, Wilkes-Barre, Pa. Adjustable drilling-bit. No. 1,022,129; Apr. 2; Sp. p. 805; Gaz. vol. 177; p. 127.
Evans, William W. (See Hawthorne, Howard, assignor.)
Evans, William W., Salt Lake City, Utah. Means for feeding air to furnaces. No. 1,041,761; Oct. 22; Gaz. vol. 183; p. 805.
Evans, Wilson L. (See Vezie and Evans.)
Eveleigh, Preston J., Charleston, S. C. Shade and curtain hanger. No. 1,022,187; Apr. 2; Sp. p. 919; Gaz. vol. 177; p. 147.
Eveleth, Charles H., *et al.* (See Taylor, James M., assignor.)
Evens, Leo E., Waterloo, Iowa. Railway freight-car. No. 1,016,220; Jan. 30; Sp. p. 6828; Gaz. vol. 174; p. 1187.
Evensen, Anton, Chicago, Ill. Non-heat-conducting receptacle. No. 1,018,041; Feb. 20; Sp. p. 4017; Gaz. vol. 175; p. 695.
Evensen, Samuel, Capron, Ill. Milking-stool. No. 1,037,225; Sept. 3; Gaz. vol. 182; p. 16.
Evensen, William, assignor to Goss Printing Press Company, Chicago, Ill. Roller-socket for printing-press rollers. No. 1,016,486; Feb. 6; Sp. p. 570; Gaz. vol. 175; p. 88.
Evensen, William, assignor to The Goss Printing Press Company, Chicago, Ill. Plate-clamping mechanism for printing-presses. No. 1,028,340; June 4; Sp. p. 594; Gaz. vol. 179; p. 90.
Ever Ready Metallindustrie G. m. b. H. (See Daniček, Černovský, and Kloth, assignors.)
Everest, Abner P., New Hartford, Iowa. Gate. No. 1,045,537; Nov. 26; Gaz. vol. 184; p. 959.
Everett, Arthur D., Garden City, Tex. Pipe-clamp. No. 1,041,762; Oct. 22; Gaz. vol. 183; p. 806.
Everett, Charles J., and J. V. McAdam, assignors to Revolute Machine Company, New York, N. Y. Photographic-printing machine. No. 1,034,772; Aug. 6; Gaz. vol. 181; p. 124.
Everett, Edward A. (See Sellew and Everett.)
Everett, Ernest C., assignor to R. E. Dietz Company, New York, N. Y. Socket for lamps, &c. No. 1,044,871; Nov. 19; Gaz. vol. 184; p. 697.
Everett, George W. (See Loftin and Everett.)
Everett, George W., assignor to C. Doblin, New York, N. Y. Automatic cigar-lighter. No. 1,024,843; Apr. 30; Sp. p. 6685; Gaz. vol. 177; p. 1176.
Everett, Looney N. (See Everett and Pate.)
Everett, Otis W., Worcester, Mass. Roll for roller-skates. No. 1,021,362; Mar. 26; Sp. p. 4992; Gaz. vol. 176; p. 911.
Everett, Otis W., assignor to The Samuel Winslow Skate M'f'g. Co., Worcester, Mass. Roller-skate. No. 1,021,735; Mar. 26; Sp. p. 5771; Gaz. vol. 176; p. 1036.
Everett, William P. and L. N., and D. B. Pate, Hornbeck, La. Churn. No. 1,048,669; Dec. 31; Gaz. vol. 185; p. 1130.
Everhart, Charles O., assignor of one-half to A. Miles, Warren, Pa. Fluid-pressure regulator. No. 1,019,617; Mar. 5; Sp. p. 1353; Gaz. vol. 176; p. 205.
Everhart, Charles O., assignor of one-half to A. Miles, Warren, Pa. Pressure-gage. No. 1,022,310; Apr. 2; Sp. p. 1158; Gaz. vol. 177; p. 186.
Everitt, Cyrus, Sidney, Ill. Rail-joint. No. 1,028,817; June 4; Sp. p. 1611; Gaz. vol. 179; p. 251.
Everly, William D., Sanger, Tex. Engine-starter. No. 1,024,000; Apr. 23; Sp. p. 4780; Gaz. vol. 177; p. 848.
Evers, Cyrus, New York, N. Y., assignor to Lidgerwood Manufacturing Company. Machine-brake. No. 1,036,594; Aug. 27; Gaz. vol. 181; p. 849.
Evers, Emile E., assignor of one-fourth to G. A. Sauer and one-half to H. Siede, New York, N. Y. Fur. No. 1,029,858; June 18; Sp. p. 3917; Gaz. vol. 179; p. 682.
Everson, Albert G., Wilmington, Del. Pitcher's target. No. 1,043,308; Nov. 5; Gaz. vol. 184; p. 94.
Everton, James C., Chattanooga, Tenn. Canning and drying apparatus. No. 1,036,985; Aug. 27; Gaz. vol. 181; p. 978.
Every, Ernest D., Mason, Mich. Electrical contact for railway-crossing bells. No. 1,037,606; Sept. 3; Gaz. vol. 182; p. 144.
Evington, Charles L. (See Shubert and Evington.)
Evslin, Leo E., New York, N. Y. Artificial tooth. No. 1,031,332; July 2; Gaz. vol. 180; p. 170.
Ewart, Arthur F. (See Dyer and Ewart.)
Ewe, Charles H. (See Ewe, Jennie and C. H.)
Ewe, Jennie and C. H., Racine, Wis. Sharpener attachment for mowers. No. 1,027,114; May 21; Sp. p. 4520; Gaz. vol. 178; p. 761.
Ewell, Frank E., East Bridgewater, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Making boots and shoes. No. 1,017,742; Feb. 20; Sp. p. 3294; Gaz. vol. 175; p. 589.
Ewell, George G. (See Lee, William D., assignor.)
Ewen, Edward C. (See Burk, Frederick E., assignor.)
Ewen, Malcolm F., and G. H. Tomlinson, Chicago, Ill., assignors to Standard Alcohol Company, New York, N. Y. Fuel and producing fuel from lignocellulose. No. 1,032,391; July 16; Gaz. vol. 180; p. 618.

Alphabetical list of patentees—Continued.

Ewen, Malcolm F., and G. H. Tomlinson, Chicago, Ill., assignors to Standard Alcohol Company, New York, N. Y. Producing fermentable sugar from lignocellulose. No. 1,032,392; July 16; Gaz. vol. 180; p. 618.
Ewer, Frank A., *et al.* (See McIntosh, McClellan, assignor.)
Ewert, John S., Dalton, S. D. Hoisting apparatus. No. 1,021,585; Mar. 26; Sp. p. 5495; Gaz. vol. 176; p. 987.
Ewing, George K., and C. R. Farley, Ewington, Ohio. Mechanical starter for automobiles. No. 1,041,054; Oct. 15; Gaz. vol. 183; p. 533.
Ewing, Harry L., Dallas, Tex. Sliding-door lock. No. 1,034,699; Aug. 6; Gaz. vol. 181; p. 99.
Ewing, James C., San Francisco, Cal. Registering device for turnstiles. No. 1,030,068; June 18; Sp. p. 4368; Gaz. vol. 179; p. 753.
Ewing, Robert E., Avalon, assignor to Pittsburgh Lamp, Brass & Glass Company, Pittsburgh, Pa. Shade-holder. No. 1,036,819; Aug. 27; Gaz. vol. 181; p. 923.
Excel Manufacturing Company. (See Stork, Frederick W., assignor.)
Excello Products Company. (See Jones, Lemuel I., assignor.)
Excelsior Advertising Device Co. (See Anderson and Hutchings, assignors.)
Excelsior Needle Company. (See Dayton, James M., assignor.)
Exline, Marcus P., Dallas, Tex. Mailing-cabinet. No. 1,016,821; Feb. 6; Sp. p. 1308; Gaz. vol. 175; p. 201.
Exline, Marcus P., Dallas, Tex., assignor to American Mailing System Co., Chicago, Ill. Filing-cabinet unit. No. 1,038,331; Sept. 10; Gaz. vol. 182; p. 420.
Exold Manufacturing Company. (See Goldstein, Morris, assignor.)
Expanded Metal Company, The. (See Salmon, Harry, assignor.)
Exploration Company, The. (See Salamon and Grace, assignors.)
Exterkamp, George J., assignor of one-half to J. A. Thobe, Covington, Ky. Emergency-horseshoe. No. 1,032,475; July 16; Gaz. vol. 180; p. 646.
Ey, Eduard, Charlottenburg, assignor to Siemens & Halske, A. G., Berlin, Germany. Apparatus for sterilizing liquids. No. 1,046,061; Dec. 3; Gaz. vol. 185; p. 90.
Eyermann, Wilhelm H. (See Schulz and Eyermann.)
Eyles, Anton G., Cedar Rapids, Iowa. Chair. No. 1,020,086; Mar. 12; Sp. p. 2300; Gaz. vol. 176; p. 394.
Eyles, Anton G., assignor to A. G. Eyles Chair Company, Cedar Rapids, Iowa. Couch-bed, &c. No. 1,021,091; Mar. 26; Sp. p. 4425; Gaz. vol. 176; p. 819.
Eyles, Anton G., Cedar Rapids, Iowa, assignor of one-half to J. H. Lee, Oak Park, Ill. Chair. No. 1,033,093; July 23; Gaz. vol. 180; p. 893.
Eynon-Evans Mfg. Co., The. (See Eynon and Schmid, assignors.)
Eynon, Thomas M., and J. V. Schmid, Philadelphia, Pa., assignors to The Eynon-Evans Mfg. Co. Blow-off valve. No. 1,047,774; Dec. 17; Gaz. vol. 185; p. 759.
Eynon, William H., assignor, by mesne assignments, to C. H. Davies, Cleveland, Ohio. Valve and horn. No. 1,047,019; Dec. 10; Gaz. vol. 185; p. 461.
Eytalis, Charles, assignor of one-sixth to E. Baren, one-sixth to R. Weinberg, and one-sixth to J. Butkus, Chicago, Ill. Sliding-door latch. No. 1,044,872; Nov. 19; Gaz. vol. 184; p. 698.
Eyth, Lewis J., assignor of one-fourth to R. L. De Haven and one-fourth to W. J. Allison, Butler, Pa. Door and operating mechanism therefor. No. 1,015,158; Jan. 16; Sp. p. 4567; Gaz. vol. 174; p. 770.
Ezard, Jacob H., Hocking, Iowa. Boltless rail-joint. No. 1,026,791; May 21; Sp. p. 3747; Gaz. vol. 178; p. 648.
Ezell, Francis L., Nashville, Tenn. Plow. No. 1,015,672; Jan. 23; Sp. p. 5692; Gaz. vol. 174; p. 972.
Ezzell, J. C. (See Jones, Emery C., assignor.)
Ezzell, John M., Ardmore, Okla. Steel tape. No. 1,019,618; Mar. 5; Sp. p. 1354; Gaz. vol. 176; p. 206.
F. Bissell Company, The. (See Alexander, Louis A., assignor.)
F. Engelhardt & Sons. (See Kupp, William A., assignor.)
F. Wesel Manufacturing Company. (See Weston, Folke W., assignor.)
F. A. Hardy & Company. (See Peterson, Frank E., assignor.)
F. A. Hardy & Company. (See Pixley, Charles H., assignor.)
F. A. Hardy & Company. (See Rogers, George A., assignor.)
F. A. Hardy & Company. (See Troppman, Charles J., assignor.)
F. A. Whitney Carriage Co. (See Ambler, George B., assignor.)
F. A. Whitney Carriage Co. (See Holman, Joseph P., assignor.)
F. B. Chamberlain Company. (See Ressencourt, Eugène G., assignor.)
F. B. Shuster Company. (See Shuster, Franklin B., assignor.)
F. B. Zieg Manufacturing Company, The. (See Zieg, Frank B., assignor.)
F. C. Austin Drainage Excavator Company. (See Jacobs, Charles C., assignor.)
F. E. Kohler Company, The. (See Kohler, Frederick E., assignor.)
F. F. Dalley Co., The. (See Allworth, Reginald M., assignor.)
F. H. Bennett Biscuit Company. (See Ellis, Carleton, assignor.)
F. H. Hill Co., The. (See Raymond, Joseph A., assignor.)
F. H. Sadler Co., The. (See Sadler, Louis E., assigner.)
F. H. Smith Manufacturing Company. (See Sasseman, David C., assignor.)
F. L. Smidth & Co. (See Andersen, Alfred E., assignor.)
F. L. Smidth & Co. (See Fasting, Johan S., assignor.)
F. L. Smidth & Co. (See Lindhard, Povl T., assignor.)
F. N. Burt Company, The. (See Burt, Robinson, assignor.)
F. N. Burt Company, The. (See Holly, Carlos, assignor.)
F. N. Burt Company. (See Palmer, Lyndon C., assignor.)
F. W. Gault, Jr., Brazing & Manufacturing Company. (See Gault, Frank W., Jr., assignor.)
F. W. Wakefield Brass Company, The. (See Wakefield, Frederick W., assignor.)
F. W. Webb Manufacturing Company. (See Gorman, David W., assignor.)
F. W. Webb Manufacturing Company. (See Thorndike, Herbert W., assignor.)
F. X. Parsche & Son Company. (See Parsche, Frank C., assignor.)
Faas, Henry N. (See Lewis and Faas.)
Faber & Co., M. (See Matitsch, August, assignor.)
Faber, Frank M., assignor to W. S. Elliott, Pittsburgh, Pa. Manufacture of turbine-wheels. No. 1,039,915; Oct. 1; Gaz. vol. 183; p. 82.
Faber, Henry A., Cincinnati, Ohio. Window-screen. No. 1,025,256; May 7; Sp. p. 326; Gaz. vol. 178; p. 53.
Fabian, Edwin, and F. Widmark, St. Paul, Minn. Power-transmitter. No. 1,023,366; Apr. 16; Sp. p. 3445; Gaz. vol. 177; p. 615.
Fabian, George, Bootle, England. Fire-helmet. No. 1,041,610; Oct. 15; Gaz. vol. 183; p. 716.
Fabrik Nietloser Gitterträger Aktien-Gesellschaft. (See Dickel and Ebener, assignors.)
Fabrique Nationale D'Armes de Guerre Societe Anonyme. (See Andri, Alfred, assignor.)
Fabrizi, Giuseppe, Pittsburgh, Pa. Rail-joint. No. 1,029,054; June 11; Sp. p. 2138; Gaz. vol. 179; p. 368.
Fabrowicz, Peter, Scranton, Pa. Trolley-harp. No. 1,019,619; Mar. 5; Sp. p. 1356; Gaz. vol. 176; p. 206.
Fabry, Fraur C., Berlin, Germany, assignor to The National Cash Register Company, Dayton, Ohio. Coin-displayer. No. 1,013,991; Jan. 9; Sp. p. 2016; Gaz. vol. 174; p. 341.
Fachs, Henry, New York, N. Y. Cutting-machine. No. 1,025,741; May 7; Sp. p. 1399; Gaz. vol. 178; p. 219.
Fackler, Effie L., Champaign, Ill. Basket-support. No. 1,036,203; Aug. 20; Gaz. vol. 181; p. 681.
Faconeisen-Walzwerk L. Mannstaedt & Cie., Act. Ges. (See Buchholz, Theodor, assignor.)
Faconeisenwalzwerk L. Mannstaedt & Cie., Aktiengesellschaft. (See Gille, Hugo, assignor.)
Factor, Max. (See Wagner, Jacob, assignor.)
Fader, Fenwick D., Vancouver, British Columbia, Canada. Meat-slicing-machine support. No. 1,013,756; Jan. 2; Sp. p. 1473; Gaz. vol. 174; p. 232.
Faegre, Kaspar G. (See Faegre, Victor A., assignor.)
Faegre, Victor A., assignor of one-half to K. G. Faegre, New York, N. Y. Front-laced corset. No. 1,043,003; Oct 29; Gaz. vol. 183; p. 1258.
Faehrmann, Hermann, New York, N. Y. Airship. No. 1,023,367; Apr. 16; Sp. p. 3449; Gaz. vol. 177; p. 616.
Faerber, William, Chicago, Ill. Display-stand. No. 1,013,539; Jan. 2; Sp. p. 981; Gaz. vol. 174; p. 157.
Faerber, William, Chicago, Ill. Apparatus for shampooing ladies' hair. No. 1,028,341; June 4; Sp. p. 597; Gaz. vol. 179; p. 90.
Fagan, John T., Cleveland, Ohio. Seal for sectional leading-in wires. No. 1,032,476; July 16; Gaz. vol. 180; p. 646.
Fagan, John T., assignor to National Electric Lamp Company, Cleveland, Ohio. Air and gas burner. No. 1,031,842; July 9; Gaz. vol. 180; p. 387.
Fagan, Ray C., Spangler, Pa. Well-drilling machine. No. 1,049,068; Dec. 31; Gaz. vol. 185; p. 1267.
Fageol, Rollie B., Oakland, Cal. Securing attachment for tool-heads. No. 1,018,353; Feb. 20; Sp. p. 4661; Gaz. vol. 175; p. 801.
Fager, James, Dixon, Ill. Rail support and fastener. No. 1,045,269; Nov. 26; Gaz. vol. 184; p. 863.
Fagerlind, Kerstin M. (See Bergström and Fagerlind.)
Fagerlind, Oscar. (See Bergström and Fagerlind.)
Fahey, E. H. (See Gaul, William F., assignor.)
Fahndrich, Edmund. (See Fahndrich, Francis X., assignor.)
Fahndrich, Francis X., assignor to E. Fahndrich, Youngstown, Ohio. Bottle-puzzle. No. 1,020,031; Mar. 12; Sp. p. 2183; Gaz. vol. 176; p. 376.
Fahnestock, David M., Pittsburgh, Pa. Molding apparatus. No. 1,027,115; May 21; Sp. p. 4522; Gaz. vol. 178; p. 761.
Fahnestock, David M., Pittsburgh, Pa. Making molds. No. 1,027,116; May 21; Sp. p. 4527; Gaz. vol. 178; p. 762.

Alphabetical list of patentees—Continued.

Fahnestock, David M., Pittsburgh, Pa. Molding apparatus. No. 1,027,192; May 21; Sp. p. 4672; Gaz. vol. 178; p. 785.
Fahnestock Electric Company. (See Schade, John, Jr., assignor.)
Fahrman, Frank. (See Fahrman and Bolton.)
Fahrman, William and F., and D. Bolton, Joplin, Mo. Liquid-cooler. No. 1,029,981; June 18; Sp. p. 4172; Gaz. vol. 179; p. 723.
Fahrney, Callo D., Milwaukee, Wis. Street-cleaner. No. 1,033,164; July 23; Gaz. vol. 180; p. 917.
Fahrney, William H., Chicago, Ill. Sheet-metal-bending machine. No. 1,015,429; Jan. 23; Sp. p. 5167; Gaz. vol. 174; p. 888.
Fahys & Co., Joseph. (See Butts, Charles W., assignor.)
Failing, Martin L. (See Williams, Roger F., assignor.)
Fair, William B. (See Head, John L., assignor.)
Fairbanks, Alfred C. (See Bullard, James H. and E. W., assignors.)
Fairbanks, James G., Marion, Ohio. Sheave-block. No. 1,032,593; July 16; Gaz. vol. 180; p. 685.
Fairbanks, Leonard M., assignor to The Henry G. Thompson & Son Company, New Haven, Conn. Hacksaw-machine. No. 1,028,342; June 4; Sp. p. 598; Gaz. vol. 179; p. 90.
Fairburn, William A., Short Hills, N. J., assignor to The Diamond Match Company, Chicago, Ill. Splint-drying means for match-machines. No. 1,044,155; Nov. 12; Gaz. vol. 184; p. 418.
Fairburn, William A., F. V. Cruser, and W. Green, Barberton, Ohio, assignors to The Diamond Match Company, Chicago, Ill. Treating match-splints. No. 1,044,153; Nov. 12; Gaz. vol. 184; p. 418.
Fairburn, William A., F. V. Cruser, and W. Green, Barberton, Ohio, assignors to The Diamond Match Company, Chicago, Ill. Treating match-splints. No. 1,044,154; Nov. 12; Gaz. vol. 184; p. 418.
Fairburn, William A., Short Hills, N. J., F. V. Cruser and W. Green, Barberton, Ohio, assignors to The Diamond Match Company, Chicago, Ill. Treating match-splints. No. 1,044,445; Nov. 12; Gaz. vol. 184; p. 518.
Fairchild, B. T., *et al.* (See Johnson, Edward W., assignor.)
Fairchild, D. L., *et al.*, administrators. (See Ozias, Albert N.)
Fairchild, Herbert S., Ellsworth, Kans. Water-fountain. No. 1,035,780; Aug. 13; Gaz. vol. 181; p. 496.
Fairchild, Oren J., Binghamton, assignor of one-half to W. J. Payne, Candor, N. Y. Expression mechanism for self-playing musical instruments. No. 1,025,795; May 7; Sp. p. 1504; Gaz. vol. 178; p. 238.
Fairchild, Walter H., Chicago, Ill., assignor to The Sefton Manufacturing Company, Anderson, Ind. Paper wrapper. No. 1,013,143; Jan. 2; Sp. p. 104; Gaz. vol. 174; p. 19.
Fairchild, William, assignor to W. C. and C. R. Martineau, Albany, N. Y. Loose-leaf binder. No. 1,016,557; Feb. 6; Sp. p. 762; Gaz. vol. 175; p. 112.
Fairfield, Albert S. (See Schrey, Robert W., assignor.)
Fairfield, Alfred R., assignor of one-third to E. S. Harter and one-third to T. S. Hitt, Indianapolis, Ind. Pipe-joint. No. 1,018,354; Feb. 20; Sp. p. 4662; Gaz. vol. 175; p. 801.
Fairfield, Arthur M., St. Marys, Kans. Boot-cleaner. No. 1,047,624; Dec. 17; Gaz. vol. 185; p. 707.
Fairfield, George M., San Antonio, Tex. Internal-combustion engine. No. 1,031,991; July 9; Gaz. vol. 180; p. 437.
Fairley, John W. (See Kilburn, Fairley, Kidner, Irvine, and Chestnut.)
Faitelowitz, Arnold, Halensee, near Berlin, Germany. Testing the freshness of milk. No. 1,030,171; June 18; Sp. p. 4560; Gaz. vol. 179; p. 788.
Fake, Irving L., Baltimore, Md. Signal. No. 1,029,432; June 11; Sp. p. 2975; Gaz. vol. 179; p. 498.
Falcke, Emil, Dresden, Germany, assignor to Scherl Monorail Company, Jersey City, N. J. Valve. No. 1,048,816; Dec. 31; Gaz. vol. 185; p. 1181.
Falcke, Emil, Dresden, Germany, assignor to Scherl Monorail Company, Jersey City, N. J. Gyrostatic mechanism. No. 1,048,817; Dec. 31; Gaz. vol. 185; p. 1182.
Fales, Lewis F., Walpole, Mass. Driving mechanism for pulp-screens. No. 1,026,948; May 21; Sp. p. 4130; Gaz. vol. 178; p. 704.
Falk, Carl, St. Paul, Nebr. Cutter-bar for mowing-machines. No. 1,032,195; July 9; Gaz. vol. 180; p. 506.
Falk, Washington, Jr., Savannah, Ga. Clothing delivery and protecting appliance. No. 1,048,818; Dec. 31; Gaz. vol. 185; p. 1182.
Falke, Bruno, and E. Walters, Cleveland, Ohio. Locking faucet. No. 1,040,913; Oct. 8; Gaz. vol. 183; p. 451.
Falkenberg, William, Paris, France. Liquid-fuel burner. No. 1,045,779; Nov. 26; Gaz. vol. 184; p. 1044.
Falkenhagen, John. (See Knutson, Peder M., assignor.)
Fallenstein, Rudolf, Marseille, France, assignor to The Monarch Typewriter Company, Syracuse, N. Y. Tabulating device for type-writing machines. No. 1,023,827; Apr. 23; Sp. p. 4394; Gaz. vol. 177; p. 790.
Faller, Carl J., Zürich, Switzerland. Preserving and coloring wood. No. 1,043,582; Nov. 5; Gaz. vol. 184; p. 192.
Faller, Oscar, Munich, Germany, assignor to G. Stroh, Detroit, Mich. Evaporator. No. 1,028,086; May 28; Sp. p. 6579; Gaz. vol. 178; p. 1122.
Fallon, Alice W., Cincinnati, Ohio. Cigar-box. No. 1,032,053; July 9; Gaz. vol. 180; p. 458.
Fallon, William M. (See Byrd and Fallon.)
Fallot, Louis, Paris, France. Acetylene-generator. No. 1,016,681; Feb. 6; Sp. p. 1020; Gaz. vol. 175; p. 155.
Fallows, Edward H. (See Batten, Percy H., assignor.)
Fallows, Edward H. (See Chipps, Willis C., assignor.)
Fallows, Edward H. (See Grant, William G., assignor.)
Fallows, Edward H. (See Jones, Harry, assignor.)
Fallows, Edward H. (See Maloy, William H., assignor.)
Fallows, Edward H. (See Sargent, Fitz William, assignor.)
Fallows, Edward H. (See Thompson, James S., assignor.)
Fallows, Edward H., trustee. (See Gallagher, Joseph D., assignor.)
Falls Machine Company. (See Joecken, Peter J., assignor.)
Falor, Clarence E., assignor to The Goodyear Tire and Rubber Company, Akron, Ohio. Inflating-tube protector. No. 1,036,085; Aug. 20; Gaz. vol. 181; p. 638.
Falos, John, East Grand Forks, Minn. Wireless check-row corn-planter. No. 1,033,236; July 23; Gaz. vol. 180; p. 943.
Falter, Benjamin F., and G. J. Lederer, Chicago, Ill. Tape-shrinking machine. No. 1,038,104; Sept. 10; Gaz. vol. 182; p. 343.
Famous Door Check Company. (See Schmidt, John C., assignor.)
Fancher, Rosman I., Baldwinsville, assignor of one-half to F. L. Fuller, Syracuse, N. Y. Loose pulley. No. 1,022,779; Apr. 9; Sp. p. 2209; Gaz. vol. 177; p. 378.
Fancher, Rosman I., Baldwinsville, assignor of one-half to F. L. Fuller, Syracuse, N. Y. Differential gear for automobiles. No. 1,028,009; May 28; Sp. p. 6403; Gaz. vol. 178; p. 1098.
Fandrey, Albert J., Indianapolis, Ind. Dust-arrester for radiators. No. 1,019,143; Mar. 5; Sp. p. 307; Gaz. vol. 176; p. 48.
Fanning, Peter J., Providence, R. I. Blower-operated whistle. No. 1,046,164; Dec. 3; Gaz. vol. 185; p. 125.
Fanning, Sam H., assignor of one-half to H. Frady, Dallas, Tex. Folding bookcase. No. 1,032,054; July 9; Gaz. vol. 180; p. 458.
Fanning, Sam H., assignor of one-half to H. Frady, Dallas, Tex. Educational device. No. 1,038,332; Sept. 10; Gaz. vol. 182; p. 420.
Fanslow, Benjamin O., assignor, by mesne assignments, to J. F. Mahlstedt, Los Angeles, Cal. Rotary printing-machine. No. 1,016,682; Feb. 6; Sp. p. 1021; Gaz. vol. 175; p. 155.
Fanslow, Benjamin O., Williamsport, Pa., assignor to Polygraph Duplicating Typewriter Company, New York, N. Y. Type-case. No. 1,017,520; Feb. 13; Sp. p. 2849; Gaz. vol. 175; p. 480.
Fanslow, Benjamin O., Williamsport, Pa., assignor to Polygraph Duplicating Typewriter Company, New York, N. Y. Ribbon-feeding mechanism for reproducing-machines. No. 1,017,658; Feb. 20; Sp. p. 3109; Gaz. vol. 175; p. 561.
Fanslow, Benjamin O., Williamsport, Pa., assignor to Polygraph Duplicating Typewriter Company, New York, N. Y. Carriage-actuating mechanism for reproducing-machines. No. 1,047,397; Dec. 17; Gaz. vol. 185; p. 625.
Fanta, Arnold A., Chicago, Ill., assignor to The Child's Welfare Garment Company. Infant's garment. No. 1,030,989; July 2; Gaz. vol. 180; p. 49.
Fantl, Alfred, New York, N. Y. Pocket. No. 1,023,632; Apr. 16; Sp. p. 3994; Gaz. vol. 177; p. 701.
Faragó, Emanuel, Rochester, N. Y. Dumping mechanism for railway-cars. No. 1,045,690; Nov. 26; Gaz. vol. 184; p. 1013.
Farbenfabriken vorm. Friedr. Bayer & Co. (See Benrath, Damm, and Stephani, assignors.)
Farbenfabriken vorm. Friedr. Bayer & Co. (See Berchelmann, Wilhelm, assignor.)
Farbenfabriken vorm. Friedr. Bayer & Co. (See Berendes, Rudolph, assignor.)
Farbenfabriken vorm. Friedr. Bayer & Co. (See Bergdolt, Wilhelm, assignor.)
Farbenfabriken vorm. Friedr. Bayer & Co. (See Blank, August, assignor.)
Farbenfabriken vorm. Friedr. Bayer & Co. (See Engelmann, Max, assignor.)
Farbenfabriken vorm. Friedr. Bayer & Co. (See Engelmann and Merkel, assignors.)
Farbenfabriken vorm. Friedr. Bayer & Co. (See Engelmann, Merkel, and Wesenberg, assignors.)
Farbenfabriken vorm. Friedr. Bayer & Co. (See Friedmann, Hermann, assignor.)
Farbenfabriken vorm. Friedr. Bayer & Co. (See Grüttefien, Wilhelm, assignor.)
Farbenfabriken vorm. Friedr. Bayer & Co. (See Gunther, Oscar, assignor.)

Alphabetical list of patentees—Continued.

Farbenfabriken vorm. Friedr. Bayer & Co. (See Harries, Carl, assignor.)
Farbenfabriken vorm. Friedr. Bayer & Co. (See Hausdörfer and Heidenreich, assignors.)
Farbenfabriken vorm. Friedr. Bayer & Co. (See Heidenreich, Carl, assignor.)
Farbenfabriken vorm. Friedr. Bayer & Co. (See Hiemenz and Kropp, assignors.)
Farbenfabriken vorm. Friedr. Bayer & Co. (See Hoerlein, Heinrich, assignor.)
Farbenfabriken vorm. Friedr. Bayer & Co. (See Hoerlein, Heinrich, assignor.) (Reissue.)
Farbenfabriken vorm. Friedr. Bayer & Co. (See Hofmann and Coutelle, assignors.)
Farbenfabriken vorm. Friedr. Bayer & Co. (See Hofmann, Delbrück, and Meisenburg, assignors.)
Farbenfabriken vorm. Fried. Bayer & Co. (See Jacobi, Andreas, assignor.)
Farbenfabriken vorm. Friedr. Bayer & Co. (See Jordan and Neelmeier, assignors.)
Farbenfabriken vorm. Friedr. Bayer & Co. (See Kahn and Ossenbeck, assignors.)
Farbenfabriken vorm. Friedr. Bayer & Co. (See Kieser, Karl, assignor.)
Farbenfabriken vorm. Friedr. Bayer & Co. (See Merling and Köhler, assignors.)
Farbenfabriken vorm. Friedr. Bayer & Co. (See Möllenhoff, Carl, assignor.)
Farbenfabriken vorm. Friedr. Bayer & Co. (See Ossenbeck and Zart, assignors.)
Farbenfabriken vorm. Friedr. Bayer & Co. (See Rünkel, Friedrich, assignor.)
Farbenfabriken vorm. Friedr. Bayer & Co. (See Schweitzer and Zart, assignors.)
Farbenfabriken vorm. Friedr. Bayer & Co. (See Stern, Max, assignor.)
Farbenfabriken vorm. Friedr. Bayer & Co. (See Taub, Ludwig, assignor.)
Farbenfabriken vorm. Friedr. Bayer & Co. (See Taub and Hahl, assignors.)
Farbenfabriken vorm. Friedr. Bayer & Co. (See Thomaschewski, Paul, assignor.)
Farbenfabriken vorm. Friedr. Bayer & Co. (See Volkmann, Paul, assignor.)
Farbenfabriken vorm. Friedr. Bayer & Co. (See Weiler, Max, assignor.)
Farbenfabriken vorm. Friedr. Bayer & Co. (See Weindel, Anton, assignor.)
Farbenfabriken vorm. Friedr. Bayer & Co. (See Wintermeyer, Otto, assignor.)
Farbenfabriken vorm. Friedr. Bayer & Co. (See Zart, Arthur, assignor.)
Farbwerke vorm. Meister Lucius & Brüning. (See Becke, Max, assignor.)
Farbwerke vorm. Meister Lucius & Brüning. (See Benda, Ludwig, assignor.)
Farbwerke vorm. Meister Lucius & Brüning. (See Berneck, Moest, and Graf, assignors.)
Farbwerke vorm. Meister Lucius & Brüning. (See Ehrlich and Benda, assignors.)
Farbwerke vorm. Meister Lucius & Brüning. (See Ehrlich and Bertheim, assignors.)
Farbwerke vorm. Meister Lucius & Brüning. (See Hessenland, Max, assignor.)
Farbwerke vorm. Meister Lucius & Brüning. (See Hoffa, Erwin, assignor.)
Farbwerke vorm. Meister Lucius & Brüning. (See Kahn, Robert, assignor.)
Farbwerke vorm. Meister Lucius & Brüning. (See Korndörfer, Georg, assignor.)
Farbwerke vorm. Meister Lucius & Brüning. (See Kränzlein, Georg, assignor.)
Farbwerke vorm. Meister Lucius & Brüning. (See Maag, Rudolf, assignor.)
Farbwerke vorm. Meister Lucius & Brüning. (See Moest and Berneck, assignors.)
Farbwerke vorm. Meister Lucius & Brüning. (See Müller and Lutner, assignors.)
Farbwerke vorm. Meister Lucius & Brüning. (See Ruppel, Wilhelm, assignor.)
Farbwerke vorm. Meister Lucius & Brüning. (See Schirmacher, Karl, assignor.)
Farbwerke vorm. Meister Lucius & Brüning. (See Schmidt, Albrecht, assignor.)
Farbwerke vorm. Meister Lucius & Brüning. (See Schmidt and Kränzlein, assignors.)
Farbwerke vorm. Meister Lucius & Brüning. (See Schmidt, Rössner, and Balhon, assignors.)
Farbwerke vorm. Meister Lucius & Brüning. (See Schmidt and Thiess, assignors.)
Farbwerke vorm. Meister Lucius & Brüning. (See Scholl, Franz, assignor.)
Farbwerke vorm. Meister Lucius & Bruning. (See Scholl and Tropp, assignors.)
Farbwerke vorm. Meister Lucius & Brüning. (See Sohst, Otto, assignor.)
Farbwerke vorm. Meister Lucius & Brüning. (See Stachlin and Zechentmayer, assignors.)
Farbwerke vorm. Meister Lucius & Brüning. (See Stock, August, assignor.)
Farbwerke vorm. Meister Lucius & Brüning. (See Stock and Heim, assignors.)
Farbwerke vorm. Meister Lucius & Brüning. (See Stolz, Friedrich, assignor.)
Farbwerke vorm. Meister Lucius & Brüning. (See Stolz and Flacher, assignors.)
Farbwerke vorm. Meister Lucius & Brüning. (See Tiedtke, Richard, assignor.)
Farbwerke vorm. Meister Lucius & Brüning. (See Wagner and Erber, assignors.)
Farbwerke vorm. Meister Lucius & Brüning. (See Welde and Homolka, assignors.)
Färch, Mogens, New York, N. Y. Self-fitting stair-riser, No. 1,046,165; Dec. 3; Gaz. vol. 185; p. 126.
Farez, Christ G., Coney Island, N. Y. Gas-burner. No. 1,034,224; July 30; Gaz. vol. 180; p. 1304.
Fargason, Green D., Camp Hill, Ala. Cotton chopper and cultivator. No. 1,029,282; June 11; Sp. p. 2623; Gaz. vol. 179; p. 445.
Fargo, Arthur H., Newark, N. J. Railway-signal. No. 1,041,988; Oct. 22; Gaz. vol. 183; p. 884.
Fargo, William G., Jackson, Mich. Conduit. No. 1,021,041; Mar. 26; Sp. p. 4324; Gaz. vol. 176; p. 803.
Faria e Maya, Alfonso M. C. de. (See Da Paz and Faria e Maya.)
Faries Manufacturing Company. (See Lucas, Clarence W., assignor.)
Farkas, Kálmán, assignor of one-half to J. Gerbovich, New York, N. Y. Music-cabinet attachment for pianos. No. 1,028,697; June 4; Sp. p. 1347; Gaz. vol. 179; p. 210.
Farkas, Karl, Glen Ridge, assignor to J. E. Walscheid, Weehawken, N. J. Metallic-filament lamp. No. 1,029,350; June 11; Sp. p. 2785; Gaz. vol. 179; p. 470.
Farkas, Karl, assignor of one-half to G. V. Williams, New York, N. Y. Plastic mass for metallic filaments. No. 1,041,262; Oct. 15; Gaz. vol. 183; p. 604.
Farkas, Karl, assignor of one-half to G. V. Williams, New York, N. Y. Cement for metallic filaments. No. 1,044,156; Nov. 12; Gaz. vol. 184; p. 418.
Farkas, Louis, Clearfield, Pa. Measure or gage. No. 1,035,175; Aug. 13; Gaz. vol. 181; p. 290.
Farley, Colby R. (See Ewing and Farley.)
Farley, Cyrus H., Portland, Me. Device for handling plate-glass. No. 1,025,692; May 7; Sp. p. 1295; Gaz. vol. 178; p. 201.
Farley, Joseph O., North Yakima, Wash. Water-motor. No. 1,034,603; Aug. 6; Gaz. vol. 181; p. 66.
Farley, Thomas H. (See Farley, William F. and T. H.)
Farley, William F. and T. H., Eldorado, Okla. Grocery-cabinet. No. 1,030,172; June 18; Sp. p. 4561; Gaz. vol. 179; p. 788.
Farling, John H., Chicago, Ill. Garbage-pail holder. No. 1,028,698; June 4; Sp. p. 1349; Gaz. vol. 179; p. 210.
Farmer, Clyde C., Chicago, Ill., assignor to The Westinghouse Air Brake Company, Pittsburgh, Pa. Fluid-pressure regulator. No. 1,031,173; July 2; Gaz. vol. 180; p. 115.
Farmer, Frederick, assignor to M. J. and M. P. Whittall, Worcester, and J. E. Whitin, Uxbridge, Mass., trustees. Pile-wire-lubricating device. No. 1,019,032; Mar. 5; Sp. p. 40; Gaz. vol. 176; p. 9.
Farmer, James H., Jesse, Okla. Folding crate. No. 1,015,430; Jan. 23; Sp. p. 5169; Gaz. vol. 174; p. 889.
Farmer, John P., Portland, Oreg. Household gas-filter. No. 1,040,914; Oct. 8; Gaz. vol. 183; p. 451.
Farmer, Luke W., Somerville, Mass. Apparatus for carrying and collecting drinking-cups. No. 1,045,135; Nov. 26; Gaz. vol. 184; p. 817.
Farmer, Thomas B., Baltimore, Md. Cable-terminal box for telephone systems. No. 1,033,065; July 16; Gaz. vol. 180; p. 846.
Farnes, John L., Rexburg, Idaho, assignor of one-fourth to D. Athay and L. J. Findlay, Salt Lake City, and one-fourth to M. H. Farnes, Logan, Utah. Nut-lock. No. 1,017,521; Feb. 13; Sp. p. 2851; Gaz. vol. 175; p. 481.
Farnes, Matthew H., *et al.* (See Farnes, John L., assignor.)
Farnham, Bion B., Kenmore, N. Y. Hydrostatic level. No. 1,045,385; Nov. 26; Gaz. vol. 184; p. 903.
Farnham, Frank E., Providence, R. I. Gem-setting. No. 1,030,990; July 2; Gaz. vol. 180; p. 49.
Farnham, Fred E., Rumford, Me. Lifting-jack. No 1,036,204; Aug. 20; Gaz. vol. 181; p. 682.
Farnham, Frederick F., McKeesport, assignor to American Sheet & Tin Plate Company, Pittsburgh, Pa. Hot pickling-bath. No. 1,029,351; June 11; Sp. p. 2787; Gaz. vol. 179; p. 470.
Farnham, George M., Lincoln, Me. Sash-fastener. No. 1,047,020; Dec. 10; Gaz. vol. 185; p. 461.
Farnham, George W., assignor to Lowell Machine Shop, Lowell, Mass. Spindle-support for spinning, twisting, and like machines. No. 1,040,297; Oct. 8; Gaz. vol. 183; p. 240.
Farnham, George W., assignor to Lowell Machine Shop, Lowell, Mass. Spindle-support for spinning, twisting, and like machines. No. 1,047,187; Dec. 17; Gaz. vol. 185; p. 550.

Alphabetical list of patentees—Continued.

Farnham, George W., assignor to Lowell Machine Shop, Lowell, Mass. Spindle-support for spinning, twisting, and like machines. No. 1,047,188; Dec. 17; Gaz. vol. 185; p. 550.
Farnham, George W., assignor to Lowell Machine Shop, Lowell, Mass. Spindle support for spinning, twisting, and like machines. No. 1,047,189; Dec. 17; Gaz. vol. 185; p. 551.
Farnsworth, Hiland R., assignor to The Sandusky Foundry & Machine Company, Sandusky, Ohio. Thread-cutting machine. No. 1,022,934; Apr. 9; Sp. p. 2526; Gaz. vol. 177; p. 431.
Farnsworth, Willis S., assignor to Coin Controlled Lock Company, Petaluma, Cal. Coin-controlled lock and conveyer. No. 1,034,604; Aug. 6; Gaz. vol. 181; p. 67.
Farnsworth, Willis S., assignor to Coin Controlled Lock Co., San Francisco, Cal. Coin-controlled attachment for locks. No. 1,045,780; Nov. 26; Gaz. vol. 184; p. 1044.
Farnum, Charles W., Norwood, Ohio. Dusting-mop. No. 1,047,021; Dec. 10; Gaz. vol. 185; p. 461.
Farnum, Dwight, Denver, Colo., assignor of one-half to C. M. Tyler, Boston, Mass. Advertising device. No. 1,015,431; Jan. 23; Sp. p. 5171; Gaz. vol. 174; p. 889.
Farnum, William C., Arlington, Vt., assignor to U. S. Bobbin & Shuttle Company, Providence, R. I. Multiple-spindle boring-machine. No. 1,034,005; July 30; Gaz. vol. 180; p. 1227.
Farnum, William C., Fitchburg, Mass., assignor to U. S. Bobbin & Shuttle Company, Providence, R. I. Bobbin-turning machine. No. 1,038,499; Sept. 10; Gaz. vol. 182; p. 478.
Farnum, William C., assignor of one-half to H. E. and C. F. Cowdrey, Fitchburg, Mass. Log-handling device. No. 1,041,763; Oct. 22; Gaz. vol. 183; p. 806.
Farnworth, Robert, and T. T. Jackson, Bolton, England. Reed and beating-up mechanism for looms. No. 1,030,575; June 25; Sp. p. 5583; Gaz. vol. 179; p. 971.
Farquhar, Edmund H., Schenectady, N. Y., assignor to General Electric Company. Space-block. No. 1,022,021: Apr. 2; Sp. p. 577; Gaz. vol. 177; p. 91.
Farquhar, Joseph A. (See Waugh, James C., assignor.)
Farquhar, Milton J., Wilmington, Ohio. Register. No. 1,018,750; Feb. 27; Sp. p. 5613; Gaz. vol. 175; p. 970.
Farquhar, Moubray G., and A. H. Hill, Birmingham, England. Automatic firearm. No. 1,019,620; Mar. 5; Sp. p. 1359; Gaz. vol. 176; p. 207.
Farquhar, William C. (See Shierk, Dearell D., assignor.)
Farr and Bailey Manufacturing Company. (See Paul, Henry P., assignor.)
Farr, Eugene M., Oradell, N. J., assignor to M. J. Phillips, Charlotte Hall, Md. Skirt-measurer. No. 1,041,611; Oct. 15; Gaz. vol. 183; p. 716.
Farr, Herman G., assignor to Knox Automobile Company, Springfield, Mass. Spring for supporting radiators. No. 1,049,294; Dec. 31; Gaz. vol. 185; p. 1344.
Farr, Jonathan D., Middleton, Ga. Fire-extinguisher. No. 1,026,856; May 21; Sp. p. 3883; Gaz. vol. 178; p. 670.
Farrah, William, Gateway, Mont. Sign. No. 1,028,560; June 4; Sp. p. 1086; Gaz. vol. 179; p. 165.
Farrand, Oliver M., New York, N. Y. Combination or keyless lock. No. 1,028,868; June 11; Sp. p. 1732; Gaz. vol. 179; p. 303.
Farrar, Frederick H., Sr., Tolo, Oreg. Match-box. No. 1,042,419; Oct. 29; Gaz. vol. 183; p. 1055.
Farrar, Henry, Buffalo, N. Y. Cleaner and scraper for grain-elevators. No. 1,037,184; Aug. 27; Gaz. vol. 181; p. 1045.
Farrar, Werter S., *et al.* (See Ensley, Benjamin F. and C. E., assignors.)
Farrell, Albert J., Hensley, Ark. Sawmill-knee-adjusting mechanism. No. 1,036,986; Aug. 27; Gaz. vol. 181; p. 979.
Farrell, Arthur J., Pittsburgh, Pa. Paper-holder. No. 1,018,817; Feb. 27; Sp. p. 5756; Gaz. vol. 175; p. 993.
Farrell, Howard, Lestershire, N. Y. Aeroplane. No. 1,021,830; Apr. 2; Sp. p. 179; Gaz. vol. 177; p. 29.
Farrell, John J., Ardmore, Pa. Lock-nut. No. 1,039,916; Oct. 1; Gaz. vol. 183; p. 82.
Farrell, Leonard P. J., Chicago, Ill. Expansible partition. No. 1,021,586; Mar. 26; Sp. p. 5497; Gaz. vol. 176; p. 988.
Farrell, William H., South Bethlehem, Pa. Caramel-mold. No. 1,016,130; Jan. 30; Sp. p. 6667; Gaz. vol. 174; p. 1159.
Farrer, Charles S., Dunmore, Pa. Slate-picker. No. 1,032,477; July 16; Gaz. vol. 180; p. 646.
Farrier, Mervin J., Jr., assignor of one-fourth to E. H. Pihlstrom, one-fourth to C. F. Alba, and one-fourth to W. L. Thompson, New Orleans, La. Car-brake. No. 1,047,022; Dec. 10; Gaz. vol. 185; p. 462.
Farrington, Frank B., Greentop, Mo. Boot attachment. No. 1,047,398; Dec. 17; Gaz. vol. 185; p. 626.
Farrington, Frank H., Roanoke, Ala. Folding or collapsible bed. No. 1,022,022; Apr. 2; Sp. p. 578; Gaz. vol. 177; p. 91.
Farrow, Willard M., Jr., Washington, D. C. Pin-spotting mechanism. No. 1,041,055; Oct. 15; Gaz. vol. 183; p. 533.
Farrow, Willard M., Sr. (See Peck and Farrow.)

Farthing, James R., Garfield, Ga. Seed-planter. No. 1,035,781; Aug. 13; Gaz. vol. 181; p. 496.
Farver, Oliver H., Orrville, Ohio. Vehicle-frame. No. 1,027,193; May 21; Sp. p. 4676; Gaz. vol. 178; p. 786.
Farwell, Edward, Weymouth, England. Making bread. No. 1,040,660; Oct. 8; Gaz. vol. 183; p. 370.
Farwell, Frank M., Kansas City, Mo. Insulator. No. 1,043,916; Nov. 12; Gaz. vol. 184; p. 337.
Fassett, Francis K., Dayton, Ohio, assignor to A. Blair, St. Louis, Mo. Device for sharpening razors. No. 1,044,036; Nov. 12; Gaz. vol. 184; p. 378.
Fassett, Francis K., assignor to The National Cash Register Company, Dayton, Ohio. Cash-register. No. 1,047,775; Dec. 17; Gaz. vol. 185; p. 760.
Fassl, Aloys, Wesel, Germany, assignor to Pittsburgh Steel Products Company, Pittsburgh, Pa. Rolling tubes. (Reissue.) No. 13,500; Dec. 24; Gaz. vol. 185; p. 1024.
Fasting, Johan S., Frederiksberg, near Copenhagen, Denmark, assignor to F. L. Smidth & Co., New York, N. Y. Apparatus for filling bags with cement, &c. No. 1,037,824; Sept. 3; Gaz. vol. 182; p. 215.
Fasting, Johan S., Frederiksberg, near Copenhagen, Denmark, assignor to F. L. Smidth & Co., New York, N. Y. Separator. No. 1,049,217; Dec. 31; Gaz. vol. 185; p. 1317.
Fasy, Joseph I., Germantown, Pa. Chaplet. No. 1,023,633; Apr. 16; Sp. p. 3995; Gaz. vol. 177; p. 701.
Fauber, William H., Nanterre, France. Construction of boats and ships. No. 1,024,682; Apr. 30; Sp. p. 6348; Gaz. vol. 177; p. 1119.
Faucette, Karl S., Portland, Oreg. Cutter-head. No. 1,013,540; Jan. 2; Sp. p. 982; Gaz. vol. 174; p. 157.
Faucher, Alex A., and T. Crosby, San Jacinto, Cal. Non-reversible clutch. No. 1,021,748; Mar. 26; Sp. p. 5798; Gaz. vol. 176; p. 1041.
Faucher, Peter, Painesdale, Mich. Tobacco-knife. No. 1,019,033; Mar. 5; Sp. p. 42; Gaz. vol. 176; p. 10.
Faul, Edwin L., New York, assignor to William J. Faul Co., New York, N. Y. Candlestick-lubricator. No. 1,036,205; Aug. 20; Gaz. vol. 181; p. 682.
Faulds, John, Oak Park, assignor of one-half to J. I. Marshall, Chicago, Ill. Bake-oven. No. 1,018,178; Feb. 20; Sp. p. 4330; Gaz. vol. 175; p. 743.
Faulhaber, John L., Elwood, Ind., assignor to The Eller Manufacturing Company, Canton, Ohio. Sheet-metal roofing. No. 1,039,267; Sept. 24; Gaz. vol. 182; p. 795.
Faulk, Dulaney W., Coatesville, Pa. Printing-frame. No. 1,023,828; Apr. 23; Sp. p. 4398; Gaz. vol. 177; p. 790.
Faulkner, Charles F., Birmingham, assignor of one-half to L. B. Faulkner, Corey, Ala. Truck. No. 1,029,982; June 18; Sp. p. 4174; Gaz. vol. 179; p. 723.
Faulkner, Herman, Salt Lake City, Utah. Photographic apparatus. No. 1,013,285; Jan. 2; Sp. p. 427; Gaz. vol. 174; p. 69.
Faulkner, Herman, Salt Lake City, Utah. Photographic apparatus. No. 1,013,286; Jan. 2; Sp. p. 440; Gaz. vol. 174; p. 69.
Faulkner, James P. (See Rumold, Faulkner, and Dinsmore.)
Faulkner, Lura B. (See Faulkner, Charles F., assignor.)
Faulkner, Thomas F., Denton, Tex. Valve. No. 1,045,386; Nov. 26; Gaz. vol. 184; p. 903.
Faultless Rubber Company, The. (See Miller, Thomas W., assignor.)
Faunce, Benjamin F., Edgewood, Pa. Metallic receptacle. No. 1,043,412; Nov. 5; Gaz. vol. 184; p. 131.
Faupel, Archibald N., Johnstown, Pa. Eaves-trough. No. 1,026,085; May 14; Sp. p. 2209; Gaz. vol. 178; p. 372.
Faust, Casper, *et al.* (See Sanford, Melvin E., assignor.)
Faust, Casper, Oshkosh, Wis. Safety-gate for bridges. No. 1,015,880; Jan. 30; Sp. p. 6131; Gaz. vol. 174; p. 1070.
Faust, Casper, Oshkosh, Wis. Safety-gate for bridges. No. 1,017,090; Feb. 13; Sp. p. 1930; Gaz. vol. 175; p. 332.
Faust, Casper, Oshkosh, Wis. Safety-gate for bascule-bridges. No. 1,031,333; July 2; Gaz. vol. 180; p. 170.
Faust, Casper, Oshkosh, Wis. Safety-gate for bascule-bridges. No. 1,042,776; Oct. 29; Gaz. vol. 183; p. 1181.
Faust, Ernest H., Lexington, Ga. Folding ironing-board. No. 1,032,196; July 9; Gaz. vol. 180; p. 506.
Fauth, William J., assignor to W. K. Kenly Company, Chicago, Ill. Foundation-top for pipe-carriers. No. 1,047,399; Dec. 17; Gaz. vol. 185; p. 626.
Favary, Ethelbert, New York, N. Y. Mechanism for preventing excessive speeds of automobiles. No. 1,029,181; June 11; Sp. p. 2405; Gaz. vol. 179; p. 410.
Favata, Francesco, assignor to E. Cohen, London, England. Helicoidal propeller and means of producing the same. No. 1,034,773; Aug. 6; Gaz. vol. 181; p. 125.
Favorite, William T. (See Walton and Favorite.)
Favre, Emile G., Earlville, Ill. Vehicle-brake. No. 1,041,056; Oct. 15; Gaz. vol. 183; p. 533.
Fawcus, Thomas, Pittsburgh, Pa. Gear-cutting machine. No. 1,022,625; Apr. 9; Sp. p. 1840; Gaz. vol. 177; p. 322.
Fawcus, Thomas, Pittsburgh, Pa. Gear-cutting machine. No. 1,022,667; Apr. 9; Sp. p. 1933; Gaz. vol. 177; p. 337.
Fawell, Joseph. (See Duncan and Fawell.)

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Fawell, Joseph, Pittsburgh, Pa. Rolling-mill. No. 1,047,023; Dec. 10; Gaz. vol. 185; p. 462.
Fawkes, Emma C. (See Fawkes, Joseph W. and E. C.)
Fawkes, Frank G., Chicago, Ill. Advertising novelty. No. 1,014,961; Jan. 16; Sp. p. 4182; Gaz. vol. 174; p. 704.
Fawkes, Joseph W. and E. C., Burbank, Cal. Trolley-line construction. No. 1,019,621; Mar. 5; Sp. p. 1361; Gaz. vol. 176; p. 207.
Fawkes, Joseph W. and E. C., Burbank, Cal. Aerial trolley. No. 1,028,010; May 28; Sp. p. 6405; Gaz. vol. 178; p. 1099.
Fawkes, Joseph W. and E. C., Burbank, Cal. Line construction. No. 1,046,574; Dec. 10; Gaz. vol. 185; p. 309.
Fay, Alpheus, Louisville, Ky. Aerating butter-separator. No. 1,019,235; Mar. 5; Sp. p. 503; Gaz. vol. 176; p. 79.
Fay, Alpheus, Louisville, Ky. Homogenizing apparatus. No. 1,019,953; Mar. 12; Sp. p. 2024; Gaz. vol. 176; p. 350.
Fay, Alpheus, Louisville, Ky. Cream-separator and churn. No. 1,020,814; Mar. 19; Sp. p. 3845; Gaz. vol. 176; p. 674.
Fay, Alpheus, Louisville, Ky. Cream-separator and churn. No. 1,021,401; Mar. 26; Sp. p. 5114; Gaz. vol. 176; p. 925.
Fay, Alpheus, Louisville, Ky. Churn. No. 1,023,368; Apr. 16; Sp. p. 3451; Gaz. vol. 177; p. 616.
Fay, Alpheus, Louisville, Ky. Aerating butter-separator. No. 1,027,531; May 28; Sp. p. 5359; Gaz. vol. 178; p. 939.
Fay, Alpheus, Louisville, Ky. Aerating butter-separator. No. 1,028,869; June 11; Sp. p. 1734; Gaz. vol. 179; p. 303.
Fay, Alpheus, Louisville, Ky. Aerating butter-separator. No. 1,032,663; July 16; Gaz. vol. 180; p. 710.
Fay, Alpheus, Louisville, Ky. Producing butter. No. 1,034,350; July 30; Gaz. vol. 180; p. 1348.
Fay Machine Tool Company. (See Schaum, Otto W., assignor.)
Fay, Winthrop L., Dexter, Me. Extension-gap engine-lathe. No. 1,031,635; July 2; Gaz. vol. 180; p. 273.
Fayer, Charles F., assignor to Wappler Electric Manufacturing Company, New York, N. Y. Alternating-current rectifier. No. 1,048,819; Dec. 31; Gaz. vol. 185; p. 1182.
Feagan, James L., McCaulley, Tex. Stalk-cutter. No. 1,032,748; July 16; Gaz. vol. 180; p. 740.
Feall, Alexy, Los Angeles, Cal. Aeroplane. No. 1,037,749; Sept. 3; Gaz. vol. 182; p. 191.
Feaster, Earl C., Skedee, Okla. Cattle-guard. No. 1,028,457; June 4; Sp. p. 871; Gaz. vol. 179; p. 131.
Featherstone, Willard B., Washington, D. C., assignor to H. S. Warren, Detroit, Mich. Motion-picture machine. No. 1,034,006; July 30; Gaz. vol. 180; p. 1228.
Featherweight Rubber Sponge Company. (See Willis and Felix, assignors.)
Febert, Thomas, Lancaster, Mass. Can and bottle top. No. 1,020,487; Mar. 19; Sp. p. 3128; Gaz. vol. 176; p. 564.
Fechner, Albert H. and W., Goliad, Tex. Window-shade adjuster. No. 1,016,256; Feb. 6; Sp. p. 27; Gaz. vol. 175; p. 6.
Fechner, William. (See Fechner, Albert H. and W.)
Fedder, Meyer, Baltimore, Md. Box-lid lifter. No. 1,038,333; Sept. 10; Gaz. vol. 182; p. 420.
Fedders, John M., assignor to T. C. Fedders, Buffalo, N. Y. Radiator. No. 1,017,396; Feb. 13; Sp. p. 2575; Gaz. vol. 175; p. 436.
Fedders, Theodore C. (See Fedders, John M., assignor.)
Federal Cement Tile Company. (See Freund, Ignatz H., assignor.)
Federal Electric Company. (See Buell, Albert W., assignor.)
Federal Electric Company. (See Goehst, John H., assignor.)
Federal Electric Company, The. (See Goehst and Carpenter, assignors.)
Federal-Huber Company. (See Graham, William S., assignor.)
Federal Signal Company. (See Taylor, Herbert B., assignor.)
Federal Tool Company. (See Cress, Leonidas H., assignor.)
Federal Tool Company. (See Cress, Novitsky, and Greenbrier, assignors.)
Federspiel, Matthew N., Milwaukee, Wis., assignor to Blue Island Specialty Co., Blue Island, Ill. Orthodontia appliance. No. 1,044,764; Nov. 19; Gaz. vol. 184; p. 661.
Fee, John E., Montreal, Quebec, Canada. Hydraulic motor. No. 1,042,420; Oct. 29; Gaz. vol. 183; p. 1056.
Fee, Louis F., Kokomo, Ind. Filing-cabinet. No. 1,026,792; May 21; Sp. p. 3749; Gaz. vol. 178; p. 648.
Fee, Sherman, and O. T. Traiser, Osceola, Wis. Bag-holder. No. 1,030,882; July 2; Gaz. vol. 180; p. 12.
Feeley, Frank G., assignor to Harmon Machine Company, Watertown, N. Y. Pulp-screen. No. 1,014,288; Jan. 9; Sp. p. 2661; Gaz. vol. 174; p. 444.
Feely, Charles A., and A. F. Hennelly, New York, N. Y. Nursing-bottle holder. No. 1,020,136; Mar. 12; Sp. p. 2405; Gaz. vol. 176; p. 411.
Feeney, Martin, St. Paul, Minn. Rail-loader. No. 1,037,226; Sept. 3; Gaz. vol. 182; p. 16.
Feeney, Patterson G., Sanford, Me. Puzzle. No. 1,016,221; Jan. 30; Sp. p. 6829; Gaz. vol. 174; p. 1187.
Fees, Arthur W., Blair, Nebr. Hot-blast liquid and gaseous fuel burner. No. 1,016,257; Feb. 6; Sp. p. 28; Gaz. vol. 175; p. 7.
Fegley, Thomas J., assignor to North Bro's M'f'g Co., Philadelphia, Pa. Spindle-bearing. No. 1,020,894; Mar. 19; Sp. p. 4013; Gaz. vol. 176; p. 700.
Fegley, Thomas J., assignor to North Bro's M'f'g Co., Philadelphia, Pa. Spiral screw-driver and drill. No. 1,022,311; Apr. 2; Sp. p. 1160; Gaz. vol. 177; p. 186.
Fegley, Thomas J., and G. O. Leopold, assignors to North Bros. M'f'g Co., Philadelphia, Pa. Means for attaching blades of tools to handles. No. 1,041,451; Oct. 15; Gaz. vol. 183; p. 666.
Fehde, Paul, Berlin, Germany. Exhaust-silencer for explosion-motors. No. 1,044,157; Nov. 12; Gaz. vol. 184; p. 419.
Fehér, Mistress Leopold. (See Kriszt, John, assignor.)
Fehr, Lewis R., Columbia, Pa. Smoke-consumer. No. 1,045,270; Nov. 26; Gaz. vol. 184; p. 864.
Fehrenback, Joseph, *et al.* (See Moore, Elmer E., assignor.)
Fehrman, Frederick C., Groffs Store, Pa. Buffer for automobiles. No. 1,035,332; Aug. 13; Gaz. vol. 181; p. 344.
Feicks, William, Bethlehem, Pa. Charging-machine for coke-ovens or gas-furnaces. No. 1,034,094; July 30; Gaz. vol. 180; p. 1259.
Feid, Francis, Wrentham, assignor of one-half to C. E. Hale, North Attleboro, Mass. Bracelet. No. 1,019,445; Mar. 5; Sp. p. 1017; Gaz. vol. 176; p. 149.
Feidt, Joseph, Lunéville, France. System of mechanical transmission. No. 1,025,796; May 7; Sp. p. 1512; Gaz. vol. 178; p. 238.
Feiler, Albert. (See Warner and Feiler.)
Feinen, Mary B., Jersey City, N. J. Fire-escape. No. 1,036,987; Aug. 27; Gaz. vol. 181; p. 979.
Feiner, Eugene J. (See Hamann, Richard W., assignor.)
Feist, Leon, Newark, N. J. Bag-holder. No. 1,049,218; Dec. 31; Gaz. vol. 185; p. 1317.
Fejfar, Joseph G., Yankton, S. D. Husker. No. 1,029,055; June 11; Sp. p. 2139; Gaz. vol. 179; p. 368.
Felbel, Jacob, New York, N. Y. Means for preventing or subduing noise in running machinery. No. 1,031,636; July 2; Gaz. vol. 180; p. 273.
Felbel, Jacob, New York, assignor to Union Typewriter Company, Ilion, N. Y. Type-writing machine. No. 1,017,861; Feb. 20; Sp. p. 3602; Gaz. vol. 175; p. 631.
Felbel, Jacob, New York, N. Y., assignor, by mesne assignments, to Union Typewriter Company, Jersey City, N. J. Type-writing machine. No. 1,021,513; Mar. 26; Sp. p. 5357; Gaz. vol. 176; p. 964.
Felbel, Jacob, New York, N. Y., assignor, by mesne assignments, to Union Typewriter Company, Jersey City, N. J. Type-writing machine. No. 1,024,250; Apr. 23; Sp. p. 5352; Gaz. vol. 177; p. 938.
Felbel, Jacob, New York, N. Y., assignor, by mesne assignments, to Union Typewriter Company, Jersey City, N. J. Type-writing machine. No. 1,026,640; May 14; Sp. p. 3394; Gaz. vol. 178; p. 559.
Felbel, Jacob, New York, N. Y., assignor, by mesne assignments, to Union Typewriter Company, Jersey City, N. J. Type-writing machine. No. 1,040,298; Oct. 8; Gaz. vol. 183; p. 240.
Felch, Theodore K., Newark, assignor of one-half to W. J. Osborne, Asbury Park, N. J. Fountain-pen clasp. No. 1,021,978; Apr. 2; Sp. p. 489; Gaz. vol. 177; p. 78.
Felder, Christian, Maricopa, Cal. Rowing device. No. 1,032,886; July 16; Gaz. vol. 180; p. 785.
Feldkamp, Frederick A., Newark, N. J., assignor to Electrolytic Products Co. Mold. No. 1,031,334; July 2; Gaz. vol. 180; p. 171.
Feldmann, Louis, Jr., and T. E. Crecelius, assignors to Multiplex Display Fixture Company, St. Louis, Mo. Display-rack. No. 1,020,545; Mar. 19; Sp. p. 3256; Gaz. vol. 176; p. 583.
Feldmann, William, Chicago, Ill. Bookbinder. No. 1,044,765; Nov. 19; Gaz. vol. 184; p. 661.
Feldmeier, Harvey, Little Falls, and R. K. Miner, Oriskany Falls, assignors to D. H. Burrell & Company, Little Falls, N. Y. Centrifugal liquid-separator. No. 1,024,844; Apr. 30; Sp. p. 6686; Gaz. vol. 177; p. 1176.
Feldmeier, Harvey, and C. B. Dalzell, assignors to D. H. Burrell & Company, Little Falls, N. Y. Apparatus for treating milk, &c. No. 1,034,225; July 30; Gaz. vol. 180; p. 1304.
Fello, Chester J., Chicago, Ill. Rotary engine. No. 1,027,646; May 28; Sp. p. 5587; Gaz. vol. 178; p. 977.
Fello, Harry L. (See Buckman and Fello.)
Felix, Benjamin F. (See Willis and Felix.)
Felix, Robert L., Marlboro, Mass. Snipping-machine for shoe-tops. No. 1,035,333; Aug. 13; Gaz. vol. 181; p. 345.
Felker, Albert G., Marshfield, Wis. Means for joining culvert-sections. No. 1,016,878; Feb. 6; Sp. p. 1420; Gaz. vol. 175; p. 220.
Felker, Albert G., Marshfield, Wis. Joint for well-casings. No. 1,044,873; Nov. 19; Gaz. vol. 184; p. 698.

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Felker, Arthur. (See Felker, Charles W., assignor.)
Felker, Charles H., Avon, Mass. Dry-food hopper. No. 1,022,668; Apr. 9; Sp. p. 1937; Gaz. vol. 177; p. 337.
Felker, Charles W., Kansas City, Kans., assignor of one-half to A. Felker, Clarence, Mo. Lawn-mower. No. 1,018,487; Feb. 27; Sp. p. 5001; Gaz. vol. 175; p. 879.
Fell, Charles, Lorain, Ohio, assignor to National Tube Company, Pittsburgh, Pa. Apparatus for rifling pipes and tubes. No. 1,033,568; July 23; Gaz. vol. 180; p. 1052.
Fell, Charles, Lorain, Ohio, assignor to National Tube Company, Pittsburgh, Pa. Manufacturing rifled pipes. No. 1,033,569; July 23; Gaz. vol. 180; p. 1053.
Fell, Harriet J., White Plains, N. Y. Cooking apparatus. No. 1,040,916; Oct. 8; Gaz. vol. 183; p. 452.
Fell, Jasper P. (See Vroom, Oler P., assignor.)
Fell, John W. (See Chudleigh and Fell.)
Fellay, Louis J., Peoria, Ill. Bevel - protractor. No. 1,023,144; Apr. 16; Sp. p. 3009; Gaz. vol. 177; p. 540.
Feller, George H., Beach City, Ohio. Aeroplane. No. 1,039,716; Oct. 1; Gaz. vol. 183; p. 16.
Fellmeth, Jacob W. (See King and Fellmeth.)
Fellows, Allen R., Sioux Falls, S. D. Shock-absorbing hub. No. 1,014,135; Jan. 9; Sp. p. 2332; Gaz. vol. 174; p. 389.
Fellows, Allen R., Sioux Falls, S. D. Shock-absorbing hub. No. 1,014,136; Jan. 9; Sp. p. 2333; Gaz. vol. 174; p. 390.
Fellows, Allen R., Sioux Falls, S. D. Shock-absorbing hub. No. 1,014,137; Jan. 9; Sp. p. 2334; Gaz. vol. 174; p. 390.
Fellows, Charles F., West Chelmsford, assignor of one-half to P. A. Dyar, Boston, Mass. Fruit-picker. No. 1,013,144; Jan. 2; Sp. p. 105; Gaz. vol. 174; p. 19.
Fellows Direct Power Transmission Co. (See Messer, Vladimir V., assignor.)
Fellows Direct Power Transmission Company. (See Fellows, Hugh W., assignor.)
Fellows, Edwin R., assignor to The Fellows Gear Shaper Company, Springfield, Vt. Gear-shaping machine. No. 1,028,343; June 4; Sp. p. 601; Gaz. vol. 179; p. 91.
Fellows Gear Shaper Company, The. (See Fellows, Edwin R., assignor.)
Fellows, Harry H., Macleay, Oreg. Food-mixer. No. 1,026,259; May 14; Sp. p. 2578; Gaz. vol. 178; p. 432.
Fellows, Hugh W., Los Angeles, Cal. Hoisting-gearing. No. 1,015,618; Jan. 23; Sp. p. 5573; Gaz. vol. 174; p. 955.
Fellows, Hugh W., assignor to Fellows Direct Power Transmission Company, Los Angeles, Cal. Variable-speed gearing. No. 1,015,617; Jan. 23; Sp. p. 5569; Gaz. vol. 174; p. 954.
Fellows, Irving D., Syracuse, assignor of one-half to J. H. McCartney, Rochester, N. Y. Emergency signaling device for telephone-exchange systems. No. 1,039,667; Sept. 24; Gaz. vol. 182; p. 933.
Fellows, Thomas, Los Angeles, Cal. Concrete construction. No. 1,013,480; Jan. 2; Sp. p. 851; Gaz. vol. 174; p. 136.
Fels, Maurice. (See Sawyer and Fels.)
Felt, Charles E., Chicago, Ill. Combined bottle soaking, rinsing, and cleaning machine. No. 1,023,829; Apr. 23; Sp. p. 4400; Gaz. vol. 177; p. 791.
Felt, Charles E., Chicago, Ill. Bottle-washing machine. No. 1,023,830; Apr. 23; Sp. p. 4403; Gaz. vol. 177; p. 791.
Felt, Charles E., Chicago, Ill. Bottle-washing machine. No. 1,046,062; Dec. 3; Gaz. vol. 185; p. 91.
Felt, Dorr E., Chicago, Ill. Calculating-machine. No. 1,028,344; June 4; Sp. p. 609; Gaz. vol. 179; p. 92.
Felt, Frederick H., Long Island, Kans. Scale. No. 1,046,063; Dec. 3; Gaz. vol. 185; p. 91.
Felt, Louis W. (See Roche, John L., assignor.)
Felten & Guilleaume-Lahmeyerwerke Aktien-Gesellschaft. (See Krämer, Christian, assignor.)
Felthousen, John H., assignor to S. Morgan Smith Company, York, Pa. Turbine. No. 1,029,433; June 11; Sp. p. 2976; Gaz. vol. 179; p. 498.
Felthousen, John H., assignor to S. Morgan Smith Co., York, Pa. Turbine. No. 1,032,887; July 16; Gaz. vol. 180; p. 786.
Felts, Oscar B., Hickory Point, Tenn. Railway-spike. No. 1,029,983; June 18; Sp. p. 4176; Gaz. vol. 179; p. 724.
Felts, Samuel E., assignor to R. P. Cooper, Keokee, Va. Churn. No. 1,017,522; Feb. 13; Sp. p. 2851; Gaz. vol. 175; p. 481.
Felty, Nelson, Elizabethtown, Pa. Flower-pot. No. 1,035,561; Aug. 13; Gaz. vol. 181; p. 424.
Fenlason, Orin C., Hoquiam, Wash. Machine for use in sorting veneer. No. 1,014,819; Jan. 16; Sp. p. 3847; Gaz. vol. 174; p. 654.
Fenlason, Orin C., Hoquiam, Wash. Anvil for stapling-machines. No. 1,046,752; Dec. 10; Gaz. vol. 185; p. 373.
Fenlason, Orin C., Hoquiam, Wash. Veneer box. No. 1,047,024; Dec. 10; Gaz. vol. 185; p. 462.
Fennel, Jacob W., Newburgh, N. Y. Letter-stamping machine. No. 1,013,383; Jan. 2; Sp. p. 651; Gaz. vol. 174; p. 103.
Fenner, George P., New London, Conn. Driving mechanism for inking-rollers. No. 1,015,012; Jan. 16; Sp. p. 4292; Gaz. vol. 174; p. 721.
Fenner, George P., New London, Conn. Printing-press. No. 1,017,523; Feb. 13; Sp. p. 2853; Gaz. vol. 175; p. 481.
Fennessy, Edward H., *et al.* (See Hall, William, assignor.)
Fennessy, Frank E., *et al.* (See Hall, William, assignor.)
Fenstermacher, Albert R., and W. E. Wilson, Harrisburg, Pa. Reinforced-concrete railway-tie. No. 1,046,575; Dec. 10; Gaz. vol. 185; p. 310.
Fenton, Arthello L., Richfield, N. Y. Dough-raiser. No. 1,026,978; May 21; Sp. p. 4180; Gaz. vol. 178; p. 714.
Fenton, Henry, Glebe Point, near Sydney, New South Wales, assignor of one-third to N. Guthridge, Sydney, Australia. Suspender-garter for stockings. No. 1,036,595; Aug. 27; Gaz. vol. 181; p. 849.
Fenton, John W., Millersburg, Ohio. Semaphore-arm of railway-signals. No. 1,044,874; Nov. 19; Gaz. vol. 184; p. 698.
Fentzloff, Wilhelm, Frankfort-on-the-Main, Germany. Deflectometer. No. 1,015,305; Jan. 23; Sp. p. 4888; Gaz. vol. 174; p. 846.
Ferenczy, Frank I., Wauseon, Ohio. Surface-treating machine. No. 1,022,836; Apr. 9; Sp. p. 2322; Gaz. vol. 177; p. 397.
Ferenczy, Lajos, Easton, Pa. Envelop-moistener. No. 1,028,011; May 28; Sp. p. 6407; Gaz. vol. 178; p. 1099.
Ferger, John C., Indianapolis, Ind. Draftsman's pen. No. 1,046,753; Dec. 10; Gaz. vol. 185; p. 374.
Fergerson, Edward D., Hill City, Tenn. Harrow. No. 1,018,103; Feb. 20; Sp. p. 4170; Gaz. vol. 175; p. 717.
Fergus Falls Rotary Ice Plow Co. (See Fisch and Babst, assignors.)
Fergus, Samuel R., St. John, Kans. Stacker. No. 1,019,311; Mar. 5; Sp. p. 685; Gaz. vol. 176; p. 107.
Ferguson, Alfred S., and G. W. Robertson, Jefferson City, Mo. Gage for type-galleys. No. 1,032,594; July 16; Gaz. vol. 180; p. 686.
Ferguson, Clayton C., New York, N. Y. Telegraphing instrument. No. 1,030,509; June 25; Sp. p. 5368; Gaz. vol. 179; p. 948.
Ferguson, Edmund D., *et al.* (See Brown, Charles H., assignor.)
Ferguson, Elias W., *et al.* (See Brown, Charles H., assignor.)
Ferguson, George A., and A. Marshall, Condon, Oreg. Automatic water-lift. No. 1,041,452; Oct. 15; Gaz. vol. 183; p. 666.
Ferguson, George W., Sheboygan, Wis. Target-board. No. 1,023,634; Apr. 16; Sp. p. 3996; Gaz. vol. 177; p. 702.
Ferguson, J. A. (See White, George P., assignor.)
Ferguson, James M. (See Björkstam and Ferguson.)
Ferguson, James W. (See Strong and Ferguson.)
Ferguson, Jesse T., Hickory, Miss. Wire-grip. No. 1,020,600; Mar. 19; Sp. p. 3388; Gaz. vol. 176; p. 601.
Ferguson, John, New York, N. Y. Gas-burner attachment for vehicle-lamps and the like. No. 1,018,104; Feb. 20; Sp. p. 4171; Gaz. vol. 175; p. 717.
Ferguson, John J. (See Clark and Ferguson.)
Ferguson, John L., Akron, Ohio. Stream-dividing apparatus. No. 1,021,766; Apr. 2; Sp. p. 22; Gaz. vol. 177; p. 7.
Ferguson, Julius F., assignor of one-half to M. S. Hall, Ypsilanti, Mich. Trap. No. 1,016,405; Feb. 6; Sp. p. 378; Gaz. vol. 175; p. 60.
Ferguson, Ole, Porter, Minn. Stamp. No. 1,018,308; Feb. 20; Sp. p. 4583; Gaz. vol. 175; p. 786.
Ferguson, Robert G., Lakewood, N. J. Flush-tank. No. 1,017,524; Feb. 13; Sp. p. 2854; Gaz. vol. 175; p. 481.
Ferguson, Samuel, Schenectady, N. Y., assignor to General Electric Company. Filament apparatus. No. 1,023,305; Apr. 16; Sp. p. 3336; Gaz. vol. 177; p. 596.
Ferguson, Walton, Jr., Stamford, Conn., and A. W. Buel, New York, N. Y. Railway-track. No. 1,017,525; Feb. 13; Sp. p. 2856; Gaz. vol. 175; p. 482.
Ferguson, Winfield S. (See Mack and Ferguson.)
Fergusson, Ella M., executrix. (See Fergusson, Henry A.)
Fergusson, Henry A., deceased, St. Louis; E. M. Fergusson, Webster Groves, Mo., executrix. Vertical friction-saw. No. 1,028,103; June 4; Sp. p. 23; Gaz. vol. 179; p. 7.
Ferlà, John, New York, N. Y., assignor to American Mineral Wood Manufacturing Company. Tile. No. 1,047,927; Dec. 24; Gaz. vol. 185; p. 840.
Fernald, Hiram T., Lowell, Mass., assignor to Lamson Consolidated Store Service Company, Newark, N. J. Locking device for cable carriers. No. 1,028,699; June 4; Sp. p. 1350; Gaz. vol. 179; p. 210.
Fernald, Hiram T., Lowell, Mass., assignor to Lamson Consolidated Store Service Company, Newark, N. J. Cable-carrier. No. 1,044,875; Nov. 19; Gaz. vol. 184; p. 698.
Fernandez, Ignacio. (See Hovey, John, assignor.)
Fernandez, José V., Camaguey, Cuba. Cigar and cigarette holder. No. 1,024,980; Apr. 30; Sp. p. 6952; Gaz. vol. 177; p. 1222.

Fernandez, Pedro, Victoria, Tex. Wrench. No. 1,042,777; Oct. 29; Gaz. vol. 183; p. 1182.
Fernbach, Auguste, Paris, France, and E. H. Strange, Staple Inn, London, England. Fermentation process for the production of acetone and higher alcohols from starch, sugars, and other carbohydrate material. No. 1,044,368; Nov. 12; Gaz. vol. 184; p. 492.
Fernbach, Auguste, Paris, France, and E. H. Strange, London, England. Manufacture and production of a nutrient medium for use in fermentation processes. No. 1,044,446; Nov. 12; Gaz. vol. 184; p. 518.
Fernbach, Auguste, Paris, France, and E. H. Strange, London, England. Manufacture and production of a nutrient medium for use in fermentation processes. No. 1,044,447; Nov. 12; Gaz. vol. 184; p. 518.
Fernekes, Gustave, Pittsburgh, assignor to J. A. Snee, West Elizabeth, Pa. Apparatus for producing formaldehyde. No. 1,038,546; Sept. 17; Gaz. vol. 182; p. 530.
Fernekes, Gustave, assignor to J. A. Snee, West Elizabeth, Pa. Producing formaldehyde. No. 1,038,547; Sept. 17; Gaz. vol. 182; p. 530.
Fernholz, Anton C., Weaver, N. D. Felly-expander. No. 1,046,576; Dec. 10; Gaz. vol. 185; p. 310.
Ferrall, John J., and E. Mackay, New York, N. Y. Tool for removing seals. No. 1,029,578; June 11; Sp. p. 3262; Gaz. vol. 179; p. 547.
Ferranti, Sebastian Z. de, London, England. Spinning-machine. No. 1,013,872; Jan. 9; Sp. p. 1756; Gaz. vol. 174; p. 301.
Ferranti, Sebastian Z. de, London, England. Turbine-engine. No. 1,045,961; Dec. 3; Gaz. vol. 185; p. 57.
Ferranti, Sebastian Z. de, Grindleford Bridge, England. Spinning, doubling, and twisting machine. No. 1,018,702; Feb. 27; Sp. p. 5499; Gaz. vol. 175; p. 952.
Ferranti, Sebastian Z. de, Grindleford Bridge, near Sheffield, England. Spinning, doubling, and twisting machine. No. 1,030,395; June 25; Sp. p. 5090; Gaz. vol. 179; p. 907.
Ferranti, Sebastian Z. de, Grindleford Bridge, England. Packing for shafts and the like. No. 1,033,237; July 23; Gaz. vol. 180; p. 943.
Ferrara, Francesco, Boston, Mass. Adjustable window-shade-roll holders. No. 1,017,659; Feb. 20; Sp. p. 3113; Gaz. vol. 175; p. 562.
Ferrari, Carl, assignor to Erie City Iron Works, Erie, Pa. Eccentric-shifting mechanism for steam-engines. No. 1,033,570; July 23; Gaz. vol. 180; p. 1053.
Ferrell, Franklin, Millington, Md. Hill-marker. No. 1,046,754; Dec. 10; Gaz. vol. 185; p. 374.
Ferrell, Milton F., Cottonwood, Ariz. Safety-stirrup. No. 1,020,272; Mar. 12; Sp. p. 2697; Gaz. vol. 176; p. 457.
Ferren, Myron J., Washington, D. C. Bread-cutting machine. No. 1,032,055; July 9; Gaz. vol. 180; p. 459.
Ferrero, Manfredo, Turin, Italy. Apparatus for aerial navigation. No. 1,023,369; Apr. 16; Sp. p. 3452; Gaz. vol. 177; p. 616.
Ferres, Jeffrey T., assignor to The Sefton Manufacturing Company, Anderson, Ind. Folding paper box. No. 1,030,294; June 25; Sp. p. 4858; Gaz. vol. 179; p. 869.
Ferri, Michele. (See O'Donnell and Ferri.)
Ferrier, Walter, Gary, Ind. Centering device for forging-presses. No. 1,036,206; Aug. 20; Gaz. vol. 181; p. 682.
Ferringer, John R., Emlenton, Pa. Cross-arm for telephone or telegraph poles. No. 1,021,831; Apr. 2; Sp. p. 182; Gaz. vol. 177; p. 30.
Ferris, Elmer C., Elizabeth, N. J. Automatic punching apparatus. No. 1,042,210; Oct. 22; Gaz. vol. 183; p. 957.
Ferris, Harry H., Anaheim, Cal. Railway-rail anticreeper. No. 1,017,623; Feb. 13; Sp. p. 3029; Gaz. vol. 175; p. 512.
Ferris, Henry L., assignor to Hunt, Helm, Ferris & Company, Harvard, Ill. Tank-heater. No. 1,023,463; Apr. 16; Sp. p. 3641; Gaz. vol. 177; p. 646.
Ferris, Henry L., assignor to Hunt, Helm, Ferris & Company, Harvard, Ill. Door-hanger track. No. 1,027,713; May 28; Sp. p. 5735; Gaz. vol. 178; p. 999.
Ferris, Henry L., assignor to Hunt, Helm, Ferris & Company, Harvard, Ill. Door-hanger. No. 1,027,714; May 28; Sp. p. 5736; Gaz. vol. 178; p. 999.
Ferris, Henry L., assignor to Hunt, Helm, Ferris & Company, Harvard, Ill. Feed and litter carrier. No. 1,027,715; May 28; Sp. p. 5738; Gaz. vol. 178; p. 1000.
Ferris, Henry L., Harvard, Ill., assignor to Hunt, Helm, Ferris & Company. Feed and litter carrier. No. 1,029,984; June 18; Sp. p. 4177; Gaz. vol. 179; p. 724.
Ferris, Henry L., assignor to Hunt, Helm, Ferris & Company, Harvard, Ill. Track for barn-door hangers. No. 1,032,056; July 9; Gaz. vol. 180; p. 459.
Ferris, Henry L., assignor to Hunt, Helm, Ferris & Company, Harvard, Ill. Stall and manger. No. 1,034,774; Aug. 6; Gaz. vol. 181; p. 125.
Ferris, Walter, South Milwaukee, Wis. Railway pile-driver. No. 1,047,025; Dec. 10; Gaz. vol. 185; p. 463.
Ferris, Walter, assignor to The Bucyrus Company, South Milwaukee, Wis. Locomotive for self-propelled pile-drivers and the like. No. 1,017,624; Feb. 13; Sp. p. 3030; Gaz. vol. 175; p. 512.
Ferro Concrete Construction Company, The. (See Anderson, Robert, assignor.)
Ferry, Edward T., Chester, Pa. Clothes-drier. No. 1,021,976; Apr. 2; Sp. p. 486; Gaz. vol. 177; p. 77.
Ferwerda, Floris, Millstone, N. J. Combined scraper, hoe, and rake. No. 1,043,758; Nov. 5; Gaz. vol. 184; p. 250.
Féry, Charles, Paris, France. Electric clock. No. 1,043,917; Nov. 12; Gaz. vol. 184; p. 337.
Fesenfeldt, Charles H., *et al.* (See Daven, Michael P., assignor.)
Fesler, Milton A., San Francisco, Cal. Centrifugal oil-burner. No. 1,026,663; May 21; Sp. p. 3464; Gaz. vol. 178; p. 604.
Fesler, Milton A., San Francisco, Cal. Oil-burner. No. 1,026,664; May 21; Sp. p. 3466; Gaz. vol. 178; p. 605.
Fessenden, Reginald A., Washington, D. C., assignor to National Electric Signaling Company, Pittsburgh, Pa. Means for the transmission of energy by electromagnetic waves. No. 1,015,881; Jan. 30; Sp. p. 6133; Gaz. vol. 174; p. 1070.
Fessenden, Reginald A., Washington, D. C., assignor to National Electric Signaling Company, Pittsburgh, Pa. Signaling. No. 1,019,236; Mar. 5; Sp. p. 507; Gaz. vol. 176; p. 80.
Fessenden, Reginald A., Washington, D. C., assignor to The National Electric Signaling Company, Pittsburgh, Pa. Receiver for electromagnetic waves. No. 1,022,539; Apr. 9; Sp. p. 1655; Gaz. vol. 177; p. 294.
Fessenden, Reginald A., Washington, D. C., assignor to The National Electric Signaling Company, Pittsburgh, Pa. Receiver for electromagnetic waves. No. 1,042,778; Oct. 29; Gaz. vol. 183; p. 1182.
Fessenden, Reginald A., Washington, D. C., assignor to The National Electric Signaling Company, Pittsburgh, Pa. Receiving electromagnetic waves. No. 1,044,637; Nov. 19; Gaz. vol. 184; p. 615.
Fessenden, Reginald A., Washington, D. C., assignor, by mesne assignments, to S. M. Kintner, Pittsburgh, Pa., and H. M. Barrett, Bloomfield, N. J., receivers. Contact for electromagnetic mechanism. No. 1,048,670; Dec. 31; Gaz. vol. 185; p. 1131.
Fessenden, Reginald A., assignor to The National Electric Signaling Company, Pittsburgh, Pa. Signaling by electromagnetic waves. No. 1,020,032; Mar. 12; Sp. p. 2185; Gaz. vol. 176; p. 376.
Fessenden, Reginald A., Brant Rock, Mass., assignor to National Electric Signaling Company, Pittsburgh, Pa. Wireless signaling. No. 1,022,540; Apr. 9; Sp. p. 1658; Gaz. vol. 177; p. 294.
Fessenden, Reginald A., Brant Rock, Mass., assignor to National Electric Signaling Company, Pittsburgh, Pa. Determining frequency of periodic impulses. No. 1,022,584; Apr. 9; Sp. p. 1752; Gaz. vol. 177; p. 309.
Fessenden, Reginald A., Brant Rock, Mass., assignor to National Electric Signaling Company, Pittsburgh, Pa. Wireless telegraphy. No. 1,035,334; Aug. 13; Gaz. vol. 181: p. 345.
Fessenden, Reginald A., Brant Rock, Mass., assignor to National Electric Signaling Company, Pittsburgh, Pa. High-frequency electrical conductor. No. 1,039,717; Oct. 1; Gaz. vol. 183; p. 16.
Fessenden, Reginald A., Brant Rock, Mass., assignor to National Electric Signaling Company, Pittsburgh, Pa. Wireless telegraphy. No. 1,045,781; Nov. 26; Gaz. vol. 184; p. 1045.
Fessenden, Reginald A., Brant Rock, Mass., assignor to National Electric Signaling Company, Pittsburgh, Pa. Wireless telegraphy. No. 1,045,782; Nov. 26; Gaz. vol. 184; p. 1045.
Fessmann, Louis, and G. Hämmerle, Augsburg, Germany. Combined yarn guiding, clearing, and tension device for warping-machines, &c. No. 1,034,775; Aug. 6; Gaz. vol. 181; p. 125.
Fessmann, Louis, and G. Hämmerle, Augsburg, Germany. Combined yarn guiding, clearing, and tension device. No. 1,043,309; Nov. 5; Gaz. vol. 184; p. 95.
Fetherolf, Charles E., Columbus, Ohio, assignor to The Jeffrey Manufacturing Company. Wire-cutting machine. No. 1,048,141; Dec. 24; Gaz. vol. 185; p. 911.
Fette, George T., Cincinnati, Ohio. Electromagnet for surgical purposes. No. 1,033,883; July 30; Gaz. vol. 180; p. 1184.
Fetty, Leon, Hutchinson, Kans. Oil-burner. No. 1,028,345; June 4; Sp. p. 615; Gaz. vol. 179; p. 92.
Fetzer, Allen H., Galion, Ohio. Universal joint. No. 1,021,923; Apr. 2; Sp. p. 357; Gaz. vol. 177; p. 59.
Fetzer, Allen H., Galion, Ohio. Universal joint. No. 1,021,924; Apr. 2; Sp. p. 358; Gaz. vol. 177; p. 59.
Fetzer, Allen H., Galion, Ohio. Trolley-wheel. No. 1,044,158; Nov. 12; Gaz. vol. 184; p. 419.
Fetzer, Louis W., Findlay, Ohio. Well pulling, cleaning, and drilling machine. No. 1,041,453; Oct. 15; Gaz. vol. 183; p. 667.
Fetzer, William, Middletown, Ohio. Grain-drill. No. 1,046,755; Dec. 10; Gaz. vol. 185; p. 374.
Feuillette, Emile J., Paris, France. Hackling or braking machine. No. 1,036,820; Aug. 27; Gaz. vol. 181; p. 923.
Fewell, Cicero A., Glenwood, Ark. Cattle-guard. No. 1,039,917; Oct. 1; Gaz. vol. 183; p. 82.
Fiala, Ludger. (See Lamarre and Fiala.)
Fiat San Georgio. (See Sacerdoti, Cesare, assignor.)

Alphabetical list of patentees—Continued.

Fiat-San Giorgio (Società Anonima). (See Cappricci, Achille, assignor.)
Fiber Barrel Machinery and Manufacturing Company. (See Herr, Henry C., assignor.)
Fibre Container Company. (See Roenitz, Louis T., assignor.)
Ficken, Claus H., and L. E. Tanner, Anchor, Ill. Self-locking grain-dump. No. 1,045,962; Dec. 3; Gaz. vol. 185; p. 57.
Fickes, Wayne C., Shirland, Ill. Resilient wheel. No. 1,047,190; Dec. 17; Gaz. vol. 185; p. 551.
Fickett, Helen F. W., executrix. (See Fickett, Richmond C.)
Fickett, Richmond C., deceased; H. F. W. Fickett, executrix, Philadelphia, Pa. Lumber-drying kiln. No. 1,048,448; Dec. 24; Gaz. vol. 185; p. 1013.
Ficklen, William E., New York, N. Y. Curb-nosing and the like. No. 1,032,393; July 16; Gaz. vol. 180; p. 619.
Fidel Ganahl Lumber Company. (See Karches, Fred W., assignor.)
Fidler, Elias S., Superior, Wis. Buoy. No. 1,048,671; Dec. 31; Gaz. vol. 185; p. 1131.
Fiedler, Carl, Chicago, Ill. Animal-trap. No. 1,015,794; Jan. 30; Sp. p. 5954; Gaz. vol. 174; p. 1042.
Field, Fred F. (See Bostock, Thomas, assignor.)
Field, Frederick F., Lakewood, R. I. Letter-box plate. No. 1,020,194; Mar. 12; Sp. p. 2539; Gaz. vol. 176; p. 431.
Field, Joseph C., Orange, N. J., assignor to Western Electric Company, New York, N. Y. Signaling-circuit for train-despatching. No. 1,045,271; Nov. 26; Gaz. vol. 184; p. 864.
Field, Marcellus S., Boston, Mass. Post-office furniture. No. 1,035,869; Aug. 20; Gaz. vol. 181; p. 564.
Fieldes, George W. and J., Clendenin, W. Va. Fifth-wheel. No. 1,034,605; Aug. 6; Gaz. vol. 181; p. 67.
Fieldes, Joseph. (See Fieldes, George W. and J.)
Fielding, George T., Jr., New York, N. Y. Advertising medium. No. 1,020,815; Mar. 19; Sp. p. 3850; Gaz. vol. 176; p. 674.
Fielding, George T., Jr., New York, N. Y. Switch for progressive lighting. No. 1,024,251; Apr. 23; Sp. p. 5356; Gaz. vol. 177; p. 938.
Fielding, George T., Jr., New York, N. Y. Dissolving-view display apparatus. No. 1,031,542; July 2; Gaz. vol. 180; p. 240.
Fields, Cyrus G., Bucklin, Mo. Telephone-disconnector. No. 1,016,131; Jan. 30; Sp. p. 6670; Gaz. vol. 174; p. 1159.
Fields, Hannibal D., Loughman, Fla. Child's wagon. No. 1,020,895; Mar. 19; Sp. p. 4013; Gaz. vol. 176; p. 700.
Fields, James A. (See Gee and Fields.)
Fields, James T., Elgin, Ill. Ironing-table. No. 1,029,056; June 11; Sp. p. 2141; Gaz. vol. 179; p. 369.
Fields, John H., assignor of one-half to N. S. Holder, Davidson, Okla. Wagon-box. No. 1,042,661; Oct. 29; Gaz. vol. 183; p. 1142.
Fieser, Jacob A., Larimer, Pa. Hose-coupling. No. 1,043,683; Nov. 5; Gaz. vol. 184; p. 225.
Fietz, Adolf W., Martins Ferry, Ohio. Scrubbing apparatus. No. 1,038,548; Sept. 17; Gaz. vol. 182; p. 530.
Fifer, Victoria E., Kansas City, Mo. Hat-fastening device. No. 1,038,105; Sept. 10; Gaz. vol. 182; p. 344.
Fifield, Delroy, Cleveland, Ohio. Automobile-horn. No. 1,046,756; Dec. 10; Gaz. vol. 185; p. 375.
Figuers, Thomas N., Jr., Columbia, Tenn. Garment-supporter. No. 1,034,226; July 30; Gaz. vol. 180; p. 1305.
Fiko, Joseph E., and M. Killian, Pittsburgh, Pa. Advertising device. No. 1,024,252; Apr. 23; Sp. p. 5358; Gaz. vol. 177; p. 939.
Filbert, Edward H., *et al.* (See Miller, Charles E., assignor.)
Filbin, Patrick J., Steele, N. D. Planter. No. 1,035,432; Aug. 13; Gaz. vol. 181; p. 379.
Filer & Stowell Company, The. (See Pelton, George M., assignor.)
Filiasi, Francesco, Naples, Italy. Device for facilitating the alighting of aeroplanes on moving warships. No. 1,034,700; Aug. 6; Gaz. vol. 181; p. 99.
Filippi, Antoine P., Paris, France. Power-transmitting mechanism. No. 1,032,327; July 9; Gaz. vol. 180; p. 552.
Filler, Henry G., Oshawa township, Nicollet county, Minn. Railway-tie. No. 1,025,867; May 7; Sp. p. 1662; Gaz. vol. 178; p. 262.
Fillion, George, Sr., Lake Linden, Mich. Combined bed elevating and transporting apparatus. No. 1,042,662; Oct. 29; Gaz. vol. 183; p. 1142.
Filstrup, Eddie C., assignor to Covel Manufacturing Company, Benton Harbor, Mich. Saw-swage. No. 1,043,817; Nov. 12; Gaz. vol. 184; p. 302.
Fincato, Paolino, Milan, Italy. Apparatus for cleansing, washing, or dyeing woolen, cotton, and other yarns. No. 1,037,461; Sept. 3; Gaz. vol. 182; p. 97.
Finch, Adolph, assignor of one-third to A. B. Bowman, San Diego, Cal. Propeller for air or water craft. No. 1,029,057; June 11; Sp. p. 2142; Gaz. vol. 179; p. 369.
Finch, Charles C., *et al.* (See Van Derwerken, Theodore, E., assignor.)
Finch, Charles M., assignor to Finch Jail Building & Metal Co., San Francisco, Cal. Jail-door-operating device. No. 1,013,481; Jan. 2; Sp. p. 852; Gaz. vol. 174; p. 136.
Finch, Herbert I., assignor to Emerson Electric Manufacturing Company, St. Louis, Mo. Electric motor. No. 1,039,110; Sept. 24; Gaz. vol. 182; p. 738.
Finch Jail Building & Metal Co. (See Finch, Charles M., assignor.)
Finch, James H., Jr., Dorchester, Mass. Trolley-wheel retainer. No. 1,039,918; Oct. 1; Gaz. vol. 183; p. 83.
Finch, John S. (See Noble and Finch.)
Finch, John S., Bridgeport, Conn., assignor to The Singer Manufacturing Company. Cloth-presser for sewing-machines. No. 1,025,460; May 7; Sp. p. 790; Gaz. vol. 178; p. 123.
Finch, John S., Bridgeport, Conn., assignor to The Singer Manufacturing Company. Feeding mechanism for sewing-machines. No. 1,042,333; Oct. 22; Gaz. vol. 183; p. 997.
Finch, John S., Bridgeport, Conn., assignor to The Singer Manufacturing Company. Loop-taker for sewing-machines. No. 1,048,672; Dec. 31; Gaz. vol. 185; p. 1131.
Finck, William C., Elizabeth, N. J., assignor to G. H. Benjamin, New York, N. Y. Apparatus for generating high temperatures. No. 1,013,593; Jan. 2; Sp. p. 1088; Gaz. vol. 174; p. 175.
Findahl, Lawrence E., Sheridan, Wyo. Valve. No. 1,015,159; Jan. 16; Sp. p. 4569; Gaz. vol. 174; p. 770.
Findig, Albert, *et al.* (See Kenner, William E., assignor.)
Findlay, James C., Marquette, Mich. Road-roller. No. 1,035,335; Aug. 13; Gaz. vol. 181; p. 345.
Findlay, Leon J., *et al.* (See Farnes, John L., assignor.)
Findlay, Leon J., Salt Lake City, Utah. Metallic railway-tie. No. 1,033,791; July 30; Gaz. vol. 180; p. 1150.
Findlay, William, New York, N. Y. Antislipping device. No. 1,024,981; Apr. 30; Sp. p. 6955; Gaz. vol. 177; p. 1223.
Findley, Norman P. (See Knight, Julian G., assignor.)
Findura, Stephen A., McKeesport, Pa. Trolley-wheel retainer. No. 1,037,825; Sept. 3; Gaz. vol. 182; p. 216.
Fine, Charles C., Nanticoke, Pa. Ellipsograph. No. 1,031,780; July 9; Gaz. vol. 180; p. 365.
Fine, Charles C., assignor of one-half to J. W. Fine, Nanticoke, Pa. Non-refillable bottle. No. 1,046,757; Dec. 10; Gaz. vol. 185; p. 375.
Fine, Jacob W. (See Fine, Charles C., assignor.)
Fine, Samuel, New York, N. Y. Fire-escape. No. 1,035,176; Aug. 13; Gaz. vol. 181; p. 290.
Finger, William. (See Bangs, Edwin D., assignor.)
Fingerhut, Hermann, Breslau, Germany. Fly-catcher. No. 1,029,001; June 11; Sp. p. 2035; Gaz. vol. 179; p. 350.
Finigan, Benjamin P., assignor of one-fifth to H. H. Bliss, Washington, D. C. Type-writing machine. No. 1,035,177; Aug. 13; Gaz. vol. 181; p. 290.
Finigan, Elmer H., *et al.* (See Hutchinson, Harry, assignor.)
Finigan, Thomas, *et al.* (See Yount, Jesse M., assignor.)
Fink, Benjamin F., Huntingdon, Pa. Railway-tie. No. 1,047,928; Dec. 24; Gaz. vol. 185; p. 841.
Fink, Colin G., Schenectady, N. Y., assignor to General Electric Company. Reduction of silver ores. No. 1,013,931; Jan. 9; Sp. p. 1889; Gaz. vol. 174; p. 321.
Fink, Elba F., Niles, Mich. Umbrella. No. 1,020,816; Mar. 19; Sp. p. 3853; Gaz. vol. 176; p. 675.
Fink, Forrest E., Bucyrus, Ohio. Producing gas. No. 1,031,781; July 9; Gaz. vol. 180; p. 366.
Fink, Francis, and L. F. Rex, Lansford, Pa. Crossover-switch. No. 1,039,041; Sept. 17; Gaz. vol. 182; p. 697.
Fink, Louis. (See Schade, John, Jr., assignor.)
Fink, Marcus, New York, N. Y. Fire-escape. No. 1,049,219; Dec. 31; Gaz. vol. 185; p. 1317.
Fink, Wilhelm, Bonn, Germany. Machine for washing berries, vegetables, and fruits. No. 1,036,988; Aug. 27; Gaz. vol. 181; p. 980.
Finkbeiner, John. (See Johnson, Edward, assignor.)
Finkelman, Louis, Philadelphia, Pa. Car-fender. No. 1,048,673; Dec. 31; Gaz. vol. 185; p. 1131.
Finkenzeller, Karl, Freiburg, Baden, Germany. Fodder purifying and preparing machine. No. 1,036,476; Aug. 20; Gaz. vol. 181; p. 774.
Finking, Ernst, Leipzig, Germany. Antiskidding device. No. 1,038,737; Sept. 17; Gaz. vol. 182; p. 596.
Finlay, William, Xenia, Ohio. Rope-making machine. No. 1,030,235; June 18; Sp. p. 4709; Gaz. vol. 179; p. 810.
Finlayson, Alexander W., Detroit, Mich., assignor of one-half to T. Schunk, Toledo, Ohio, and one-fourth to R. C. Sturgeon, Ojibwa, Canada. Gas water-heater. No. 1,039,919; Oct. 1; Gaz. vol. 183; p. 83.
Finley, Jesse T., Rule, Tex. Acetylene-gas generator. No. 1,044,510; Nov. 19; Gaz. vol. 184; p. 570.
Finley, John B., Parkersburg, W. Va. Vehicle-shaft. No 1,034,095; July 30; Gaz. vol. 180; p. 1259.
Finley, Robert E., Chamblee, Ga. Chicken-roost. No. 1,019,144; Mar. 5; Sp. p. 308; Gaz. vol. 176; p. 48.
Finley, Walter A., assignor of one-fourth to F. Helmick, Fairmont, W. Va. Rebound-check. No. 1,040,917; Oct. 8; Gaz. vol. 183; p. 452.

Alphabetical list of patentees—Continued.

Finn, Clarence C., assignor of one-half to J. L. Heath, St. Louis, Mo. Spirit-level. No. 1,027,532; May 28; Sp. p. 5364; Gaz. vol. 178; p. 939.
Finn, Clarence C., assignor of one-half to J. L. Heath, St. Louis, Mo. Spirit-level. No. 1,027,533; May 28; Sp. p. 5367; Gaz. vol. 178; p. 940.
Finnegan, George J., Lockport, N. Y. Fire-extinguisher. No. 1,042,541; Oct. 29; Gaz. vol. 183; p. 1099.
Finnell, Highland T., and E. Schernikow, New York, N. Y. Shock-absorber for vehicles. No. 1,025,388; May 7; Sp. p. 631; Gaz. vol. 178; p. 98.
Finnell, John, and J. L. Hamilton, Red Bluff, Cal. Cabinet for trousers. No. 1,048,400; Dec. 24; Gaz. vol. 185; p. 998.
Finnigan, Rennie D., Viola, Iowa. Pneumatic-stacker hood. No. 1,046,284; Dec. 3; Gaz. vol. 185; p. 169.
Finsten, Victor, Toronto, Ontario, Canada. Garment-pocket. No. 1,013,757; Jan. 2; Sp. p. 1474; Gaz. vol. 174; p. 233.
Finzel, Henry L., Milledgeville, Ill. Demonstrating-camera. No. 1,019,622; Mar. 5; Sp. p. 1363; Gaz. vol. 176; p. 208.
Finzer, Estle A., Hicksville, Ohio. Spring-wheel. No. 1,048,055; Dec. 24; Gaz. vol. 185; p. 881.
Firbas, Stanislav, and J. Milcinsky, Chicago, Ill. Barrel-tapping device. No. 1,039,372; Sept. 24; Gaz. vol. 182; p. 831.
Fire and Gas Appliances Co. (See Sieben, Henry, assignor.)
Fire-Proof Furniture and Construction Company. (See Carpenter, Charles U., assignor.)
Fire-Proof Furniture and Construction Company. (See Millice, Paul S., assignor.)
Fireman, Peter, Washington, D. C., assignor to Magnetic Pigment Company, New York, N. Y. Polishing. No. 1,025,945; May 7; Sp. p. 1873; Gaz. vol. 178; p. 288.
Fireman, Peter, Washington, D. C., assignor to Magnetic Pigment Company, New York, N. Y. Polishing compound. No. 1,025,946; May 7; Sp. p. 1875; Gaz. vol. 178; p. 288.
Fireproof Ironing Board Co. (See Gordon, Abraham, assignor.)
Firestone, Samuel. (See Schrader, Morris, assignor.)
Firestone Tire & Rubber Company, The. (See Bosworth, Percy B., assignor.)
Firm, Joseph L., Berwyn, assignor to The Goss Printing Press Company, Chicago, Ill. Printing-press. No. 1,024,473; Apr. 23; Sp. p. 5814; Gaz. vol. 177; p. 1010.
Firm, Joseph L., Berwyn, assignor to The Goss Printing Press Company, Chicago, Ill. Printing-press. No. 1,025,257; May 7; Sp. p. 328; Gaz. vol. 178; p. 53.
Firm, Joseph L., Berwyn, assignor to The Goss Printing Press Company, Chicago, Ill. Printing-press. No. 1,025,258; May 7; Sp. p. 331; Gaz. vol. 178; p. 54.
Firman, William, Ottumwa, Iowa. Drilling-machine post. No. 1,015,160; Jan. 16; Sp. p. 4570; Gaz. vol. 174; p. 770.
Firmin, John D., Philadelphia, Pa. Variable-speed dynamic control for electric motors. No. 1,023,105; Apr. 9; Sp. p. 2875; Gaz. vol. 177; p. 489.
Firoben, John B., Columbus, Ohio. Roofing-tile. No. 1,024,322; Apr. 23; Sp. p. 5480; Gaz. vol. 177; p. 961.
First Hungarian Inventors Company. (See Graff, Rudolph, assignor.)
First Trust and Savings Bank, trustee. (See Erickson, Charles J., assignor.)
First Trust and Savings Bank, trustee. (See Erickson, John, assignor.)
Firth, John. (See Midgley, Frederick W., assignor.)
Firth and Sons, Thomas. (See Strange, Harry B., assignor.)
Fisch, James H., and J. C. Babst, assignors to Fergus Falls Rotary Ice Plow Co., Fergus Falls, Minn. Ice-cutting machine. No. 1,039,718; Oct. 1; Gaz. vol. 183; p. 16.
Fischbach, Emil, Brooklyn, N. Y. Bedstead. No. 1,027,829; May 28; Sp. p. 5989; Gaz. vol. 178; p. 1039.
Fischbach, Gustav. (See Bienutta, Fischbach, and Zigahn.)
Fischbach, Martin J. (See Court, Edward, assignor.)
Fischel, Theodore G., New York, N. Y. Spray attachment for faucets. No. 1,046,285; Dec. 3; Gaz. vol. 185; p. 170.
Fischer, Alex, Kensington, London, England. Sound-box for talking-machines. No. 1,013,145; Jan. 2; Sp. p. 109; Gaz. vol. 174; p. 19.
Fischer, Alex, West Kensington, London, England. Talking-machine sound-box. No. 1,013,146; Jan. 2; Sp. p. 110; Gaz. vol. 174; p. 20.
Fischer, Alex, West Kensington, London, England. Sound-conduit or amplifying device for talking-machines and the like. No. 1,029,002; June 11; Sp. p. 2036; Gaz. vol. 179; p. 350.
Fischer, Alex, Kensington, London, England. Sound conduit and amplifying device. No. 1,046,454; Dec. 10; Gaz. vol. 185; p. 266.
Fischer, Anna M., Onaga, Kans. Nest. No. 1,017,960; Feb. 20; Sp. p. 3850; Gaz. vol. 175; p. 667.
Fischer, Arthur P. (See Fischer, Frederick A. and A. P.)
Fischer, Carl, Barmen, Germany. Keyboard for pianos. No. 1,038,549; Sept. 17; Gaz. vol. 182; p. 531.
Fischer, Carl R., and J. E. Stoll, Milwaukee, Wis. Branding-machine. No. 1,021,767; Apr. 2; Sp. p. 23; Gaz. vol. 177; p. 7.
Fischer, Charles A., Chicago, Ill., assignor to Allis-Chalmers Company, Milwaukee, Wis. End-play device. No. 1,023,245; Apr. 16; Sp. p. 3213; Gaz. vol. 177; p. 575.
Fischer, Charles W., Sparks, Nebr. Shoe-lace buckle or lock. No. 1,040,918; Oct. 8; Gaz. vol. 183; p. 453.
Fischer, Ernst, Dietrichsdorf, near Kiel, Germany. Manufacture of armor-plating. No. 1,045,691; Nov. 26; Gaz. vol. 184; p. 1014.
Fischer, Frederick A. and A. P., Napier, New Zealand. Franking-machine. No. 1,034,096; July 30; Gaz. vol. 180; p. 1260.
Fischer, Gustav A., Cleveland, Ohio. Pasteurizing-machine. No. 1,028,818; June 4; Sp. p. 1612; Gaz. vol. 179; p. 251.
Fischer, Herman O., Springfield, Mass. Wrapping-machine. No. 1,016,067; Jan. 30; Sp. p. 6547; Gaz. vol. 174; p. 1137.
Fischer, Hermann W., deceased, Oklahoma, Okla.; W. T. Martin, Sr., administrator. Bath-tub. No. 1,047,400; Dec. 17; Gaz. vol. 185; p. 626.
Fischer, John G., and E. Chinn, St. Louis, Mo. Humane hitch. No. 1,036,207; Aug. 20; Gaz. vol. 181; p. 683.
Fischer, Joseph L., Appleton, Wis. Priming device. No. 1,026,740; May 21; Sp. p. 3628; Gaz. vol. 178; p. 631.
Fischer, Lewis G. (See Cuenot and Fischer.)
Fischer, Louis E., Danville, Ill., assignor to W. C. Dunbar, Philadelphia, Pa. Passenger-car. No. 1,016,683; Feb. 6; Sp. p. 1025; Gaz. vol. 175; p. 156.
Fischer, Louis G., Harrisburg, Pa. Pneumatic-hammer device. No. 1,041,057; Oct. 15; Gaz. vol. 183; p. 534.
Fischer, Max H., East Orange, N. J. Gripping device for rods, tubes, and the like. No. 1,031,637; July 2; Gaz. vol. 180; p. 273.
Fischer, Paul G., Stuttgart, Germany. Device for preventing the escape of gas from gas-pipes. No. 1,047,776; Dec. 17; Gaz. vol. 185; p. 760.
Fischer, Theodor, Würzburg, Germany. Swing. No. 1,025,797; May 7; Sp. p. 1514; Gaz. vol. 178; p. 239.
Fish, Charles H., assignor of one-half to H. Knickmeyer, St. Louis, Mo. Folding bedstead or couch. No. 1,044,638; Nov. 19; Gaz. vol. 184; p. 615.
Fish, Charles J., Seattle, Wash. Automatic shut-off. No. 1,033,308; July 23; Gaz. vol. 180; p. 968.
Fish, Edward J., Lowville, N. Y. Device for taking out dents in milk-cans. No. 1,033,687; July 23; Gaz. vol. 180; p. 1090.
Fish, Leander E., Los Angeles, Cal. Power apparatus. No. 1,021,241; Mar. 26; Sp. p. 4749; Gaz. vol. 176; p. 867.
Fish, Leander E., Los Angeles, Cal. Fluid-motor. No. 1,025,618; May 7; Sp. p. 1155; Gaz. vol. 178; p. 177.
Fish, Leroy A., Cloquet, Minn. Airship. No. 1,021,139; Mar. 26; Sp. p. 4523; Gaz. vol. 176; p. 833.
Fish, Nathaniel, and H. Hodgkinson, Darwen, England. Mechanism for putting cover on cloth in looms for weaving. No. 1,022,229; Apr. 2; Sp. p. 1012; Gaz. vol. 177; p. 162.
Fish, Samuel W., Plainfield, assignor to Taylor Iron & Steel Company, High Bridge, N. J. Locking device for safe and vault doors. No. 1,049,069; Dec. 31; Gaz. vol. 185; p. 1267.
Fish, Squire J., Jackson, Mich. Egg-testing machine. No. 1,040,919; Oct. 8; Gaz. vol. 183; p. 453.
Fishback, Yates, White Hall, Ill. Amusement apparatus. No. 1,017,526; Feb. 13; Sp. p. 2858; Gaz. vol. 175; p. 482.
Fishburn, Edwin W., Denver, Colo. Means for attaching air-pumps to automobiles. No. 1,045,272; Nov. 26; Gaz. vol. 184; p. 864.
Fishburne, Edward W., assignor to Richmond Stay-Bolt Drilling Machine Manufacturing Company, Incorporated, Richmond, Va. Machine for drilling bolts and other work. No. 1,021,242; Mar. 26; Sp. p. 4754; Gaz. vol. 176; p. 868.
Fishburne, Edward W., assignor to Richmond Stay-Bolt Drilling Machine Manufacturing Company, Incorporated, Richmond, Va. Machine for drilling bolts and other work. No. 1,034,436; Aug. 6; Gaz. vol. 181; p. 13.
Fisher, Abraham C., New York, N. Y., assignor to The J. E. Mergott Company, Newark, N. J. Bag-fastener. No. 1,013,873; Jan. 9; Sp. p. 1759; Gaz. vol. 174; p. 301.
Fisher, Adolph C., Cedar Rapids, Iowa. Pegwood-sharpener. No. 1,016,132; Jan. 30; Sp. p. 6671; Gaz. vol. 174; p. 1159.
Fisher, Alexander D., Toronto, Ontario, Canada. Pencil-sharpener. No. 1,029,801; June 18; Sp. p. 3764; Gaz. vol. 179; p. 662.
Fisher, Alva J., Evanston, Ill. Gas-burner. No. 1,046,758; Dec. 10; Gaz. vol. 185; p. 375.
Fisher, Charles, San Francisco, Cal. Wrapper for skeins of thread and needles. No. 1,014,586; Jan. 9; Sp. p. 3253; Gaz. vol. 174; p. 543.
Fisher, Charles W., South Bend, Ind. Valance for buggies. No. 1,040,180; Oct. 1; Gaz. vol. 183; p. 170.

Alphabetical list of patentees—Continued.

Fisher, Dudley T., Columbus, Ohio, assignor to The Jeffrey Manufacturing Company. Trolley-supporting mechanism. No. 1,036,477; Aug. 20; Gaz. vol. 181; p. 775.
Fisher, Dudley T., Columbus, Ohio, assignor to The Jeffrey Manufacturing Company. Connecting device for electric conductors. No. 1,043,759; Nov. 5; Gaz. vol. 184; p. 250.
Fisher, Dudley T., Columbus, Ohio, assignor to The Jeffrey Manufacturing Company. Trolley mechanism. No. 1,045,538; Nov. 26; Gaz. vol. 184; p. 960.
Fisher, Dudley T., Columbus, Ohio, assignor to The Jeffrey Manufacturing Company. Connecting device for electric conductors. No. 1,046,759; Dec. 10; Gaz. vol. 185; p. 376.
Fisher, Edgar S., Minneapolis, Minn. Stair-builder's gage. No. 1,043,515; Nov. 5; Gaz. vol. 184; p. 169.
Fisher, Edward C., Lincoln, Ill. Combined couch and folding bed. No. 1,037,227; Sept. 3; Gaz. vol. 182; p. 17.
Fisher, Edward C., Lincoln, Ill. Davenport. No. 1,043,413; Nov. 5; Gaz. vol. 184; p. 131.
Fisher, Edward F., San Diego, Cal., assignor of one-third to R. L. Fisher, Raymond, Wash. Airship. No. 1,038,106; Sept. 10; Gaz. vol. 182; p. 344.
Fisher, Emanuel, Jr., assignor of one-half to F. S. Peck, Providence, R. I. Engine. No. 1,041,764; Oct. 22; Gaz. vol. 183; p. 806.
Fisher, Frank, Reardan, Wash. Electric-line switch. No. 1,017,527; Feb. 13; Sp. p. 2860; Gaz. vol. 175; p. 483.
Fisher, Frank E., Detroit, Mich. Centrifugal mercury cut-out switch. No. 1,036,596; Aug. 27; Gaz. vol. 181; p. 849.
Fisher, Fred J., Detroit, Mich. Bending wood. No. 1,016,684; Feb. 6; Sp. p. 1029; Gaz. vol. 175; p. 156.
Fisher, George A., and J. A. Morrison, assignors to Fisher Paper Box Company, Minneapolis, Minn. Egg-case. No. 1,017,254; Feb. 13; Sp. p. 2285; Gaz. vol. 175; p. 388.
Fisher, George H., and P. J. O'Neil, Leavenworth, Kans. Apparatus for making artificial ice. No. 1,020,195; Mar. 12; Sp. p. 2541; Gaz. vol. 176; p. 431.
Fisher, George W., and F. Hoyland, Jr., Jackson, Mich. Switch mechanism. No. 1,027,468; May 28; Sp. p. 5233; Gaz. vol. 178; p. 918.
Fisher, Henry I., Cincinnati, Ohio. Piano-lamp. No. 1,042,099; Oct. 22; Gaz. vol. 183; p. 921.
Fisher, Henry N., Waltham, Mass. Speed-indicator for centrifugal machines. No. 1,025,259; May 7; Sp. p. 334; Gaz. vol. 178; p. 54.
Fisher, Henry W., assignor to Standard Underground Cable Company, Pittsburgh, Pa. Waterproof cable. No. 1,037,883; Sept. 10; Gaz. vol. 182; p. 269.
Fisher, Homer O., Chicago, Ill. Bottle-filler. No. 1,036,478; Aug. 20; Gaz. vol. 181; p. 775.
Fisher, Homer O., Chagrin Falls, Ohio. Pasteurizer. No. 1,046,577; Dec. 10; Gaz. vol. 185; p. 310.
Fisher, Irving, New Haven, Conn. Index or file. No. 1,048,056; Dec. 24; Gaz. vol. 185; p. 881.
Fisher, Irving, New Haven, Conn. Index or file. No. 1,048,057; Dec. 24; Gaz. vol. 185; p. 882.
Fisher, Irving, New Haven, Conn. Index or file. No. 1,048,058; Dec. 24; Gaz. vol. 185; p. 882.
Fisher, Isaac M., Seattle, Wash. Rope or strap fastening device. No. 1,020,749; Mar. 19; Sp. p. 3723; Gaz. vol. 176; p. 653.
Fisher, Jacob, Roann, Ind. Wire-stretcher. No. 1,021,587; Mar. 26; Sp. p. 5500; Gaz. vol. 176; p. 988.
Fisher, John A., Elizabethtown, Pa. Adjustable window shade and curtain bracket. No. 1,034,990; Aug. 6; Gaz. vol. 181; p. 197.
Fisher, Marley, Lindsay, Cal. Display apparatus. No. 1,020,896; Mar. 19; Sp. p. 4015; Gaz. vol. 176; p. 700.
Fisher, Milan H. (See Tarbell, Frank L., assignor.)
Fisher, Oliver W., Madison, Ohio. Vegetable-sorter. No. 1,021,979; Apr. 2; Sp. p. 490; Gaz. vol. 177; p. 78.
Fisher Paper Box Company. (See Fisher and Morrison, assignors.)
Fisher, R. L. (See Fisher, Edward F., assignor.)
Fisher, Robert, New York, N. Y. Metal-bending device. No. 1,033,309; July 23; Gaz. vol. 180; p. 968.
Fisher, Rudolph, and C. A. Young, Portland, Oreg. Bath-cabinet. No. 1,014,587; Jan. 9; Sp. p. 3256; Gaz. vol. 174; p. 543.
Fisher, Samuel. (See Boyce and Fisher.)
Fisher, Walter E., New Iberia, La. Oil-burner. No. 1,018,893; Feb. 27; Sp. p. 5903; Gaz. vol. 175; p. 1018.
Fisher, Wilbur H., Conneaut, Ohio, assignor, by mesne assignments, to General Electric Company. Chandelier and fixture. No. 1,045,273; Nov. 26; Gaz. vol. 184; p. 865.
Fisher, William C., assignor to The Russell Manufacturing Company, Middletown, Conn. Buckle. No. 1,039,042; Sept. 17; Gaz. vol. 182; p. 698.
Fisher, William J., Sault Ste. Marie, Mich. Combined door-hanger and track. No. 1,015,161; Jan. 16; Sp. p. 4571; Gaz. vol. 174; p. 770.
Fisher, William W., Big Spring, Tex. Clamp for pump-rods and well-tubes. No. 1,043,081; Nov. 5; Gaz. vol. 184; p. 11.
Fisk, Benjamin C., and I. W. Smith, Cooperstown, Cal. Wagon-spoke extractor. No. 1,034,227; July 30; Gaz. vol. 180; p. 1305.
Fisk, Henry M. (See Grier and Fisk.)
Fisk, Henry M., Watseka, Ill. Battery-box. No. 1,036,597; Aug. 27; Gaz. vol. 181; p. 850.
Fisk, Horace A., deceased, Clinton, Mich.; J. C. Fisk, administrator. Antiskidding device. No. 1,017,961; Feb. 20; Sp. p. 3851; Gaz. vol. 175; p. 667.
Fisk, Jefferson C., administrator. (See Fisk, Horace A.)
Fisk, Otis H., Cincinnati, Ohio. Adjustable miter-box. No. 1,026,086; May 14; Sp. p. 2210; Gaz. vol. 178; p. 373.
Fisk Rubber Company. (See Cole, John C., assignor.)
Fiske, Bradley A., U. S. Navy. Method of and apparatus for delivering submarine torpedoes from airships. No. 1,032,394; July 16; Gaz. vol. 180; p. 619.
Fiske, Henry G., New York, N. Y., assignor, by mesne assignments, to The Columbia Motor Car Company, Hartford, Conn. Tire. No. 1,040,920; Oct. 8; Gaz. vol. 183; p. 453.
Fiske, William G., Purfleet, England. Manufacture of cardboard. No. 1,033,756; July 23; Gaz. vol. 180; p. 1112.
Fisker, Peder A., Copenhagen, Denmark. Air-pump. No. 1,034,894; Aug. 6; Gaz. vol. 181; p. 166.
Fissithaler, Fritz, Salzburg, Austria-Hungary. Conveyer. No. 1,022,359; Apr. 2; Sp. p. 1262; Gaz. vol. 177; p. 203.
Fitch, Charles G., Indianapolis, Ind. Fluid-beater. No. 1,025,798; May 7; Sp. p. 1514; Gaz. vol. 178; p. 239.
Fitch, Charles M. (See Best and Fitch.)
Fitch, De Leslie C., Baton Rouge, La. Press. No. 1,023,145; Apr. 16; Sp. p. 3012; Gaz. vol. 177; p. 541.
Fitch, Frank J., and G. Bausback, Pottsville, Pa. Automatic coupling device. No. 1,034,352; July 30; Gaz. vol. 180; p. 1349.
Fitch, John T. (See McNee, George G., assignor.)
Fitchburg Machine Works. (See Fogarty, George E., assignor.)
Fitchburg Machine Works. (See Mills, Edward L., assignor.)
Fitchburg Machine Works. (See Mills and Whitford, assignors.)
Fite, Cephas V., Charlotte, N. C. Internal-combustion engine. No. 1,040,299; Oct. 8; Gaz. vol. 183; p. 240.
Fithian, Edwin J., and H. D. Murray, assignors to The Bessemer Gas Engine Company, Grove City, Pa. Actuating mechanism for glands for stuffing-boxes. No. 1,048,142; Dec. 24; Gaz. vol. 185; p. 912.
Fithian, Robert L., Westmoreland, Kans. Neck-yoke connector. No. 1,033,238; July 23; Gaz. vol. 180; p. 944.
Fitts, James L. (See Morgan and Fitts.)
Fitts, James L., Merchantville, N. J., assignor to Warren Webster and Company. Steam trap or valve. No. 1,037,228; Sept. 3; Gaz. vol. 182; p. 17.
Fitts, James L., Pensauken township, Camden county, N. J., and R. M. Hunter, Philadelphia, Pa., assignors to Warren Webster & Company. Valve. No. 1,024,884; Apr. 30; Sp. p. 6761; Gaz. vol. 177; p. 1189.
Fitts, Morton B., Minneapolis, Kans. Portable orchard-heater. No. 1,034,991; Aug. 6; Gaz. vol. 181; p. 197.
Fitz, Amos G., assignor to Fitz-Empire Double Pivot Last Company, Auburn, Me. Last. No. 1,016,986; Feb. 13; Sp. p. 1689; Gaz. vol. 175; p. 295.
Fitz-Empire Double Pivot Last Company. (See Fitz, Amos G., assignor.)
Fitz Gerald, Arthur G., Haverhill, Mass. Electric switch. No. 1,045,692; Nov. 26; Gaz. vol. 184; p. 1014.
Fitz Gerald, David E., *et al.* (See Dunn, Peter S., assignor.)
Fitz-Hugh, Carter H., *et al.* (See Greer, Howard, Jr., assignor.)
Fitz Hugh, Valentine M. (See Cunningham and Reid, assignors.)
Fitz Hugh, Valentine M., *et al.* (See Garton, Cyril S., assignor.)
Fitz-Jerrell, Harry B. (See Lewis, Lyman S., assignor.)
Fitzgerald, Anna T., Worcester, Mass. Folding hat-box. No. 1,040,300; Oct. 8; Gaz. vol. 183; p. 241.
Fitzgerald, Daniel E., assignor of one-half to C. M. Taylor, Shawnee, Okla. Dry closet. No. 1,014,213; Jan. 9; Sp. p. 2483; Gaz. vol. 174; p. 417.
Fitzgerald, Daniel H., New York, N. Y. Blotter-holder. No. 1,018,416; Feb. 27; Sp. p. 4839; Gaz. vol. 175; p. 857.
Fitzgerald, Edward A., Highwood, Ill. Electrical signaling device. No. 1,014,588; Jan. 9; Sp. p. 3258; Gaz. vol. 174; p. 544.
Fitzgerald, Edward F., Philadelphia, Pa. Valve. No. 1,037,139; Aug. 27; Gaz. vol. 181; p. 1029.
Fitzgerald, James J., assignor of one-third to D. Rawstrom and one-third to H. Rawstrom, Chicago, Ill. Interest-calculating device. No. 1,039,373; Sept. 24; Gaz. vol. 182; p. 831.
Fitzgerald, John J., Chicago, Ill., assignor of fifty-five one-hundredths to E. M. Keeley, twenty-five one-hundredths to J. M. Weir, and twenty one-hundredths to R. T. Weir. Protective preservative wrapping for food products. No. 1,048,674; Dec. 31; Gaz. vol. 185; p. 1132.

Alphabetical list of patentees—Continued.

Fitzgerald, John J., Chicago, Ill., assignor of fifty-five one-hundredths to E. M. Keeley, twenty-five one-hundredths to J. M. Weir, and twenty one-hundredths to R. T. Weir. Protectively preserving food products. No. 1,048,675; Dec. 31; Gaz. vol. 185; p. 1132.
Fitzgerald, Larry, Whittier, Cal. Underreamer. No. 1,017,743; Feb. 20; Sp. p. 3295; Gaz. vol. 175; p. 590.
Fitzgerald, Melvin T., Rock Elm, Wis. Fence-post-driving machine. No. 1,015,947; Jan. 30; Sp. p 6279; Gaz. vol. 174; p. 1093.
Fitzpatrick, John B., New York, N. Y. Stage device. No. 1,036,208; Aug. 20; Gaz. vol. 181; p. 683.
Fitzpatrick, Wayne D., Glenhayes, W. Va. Stovepipe-joint. No. 1,021,092; Mar. 26; Sp. p. 4427; Gaz. vol. 176; p. 820.
Fitzroy Tanning Company Limited. (See Lindström, Gustaf H., assignor.)
Fitzsimmons, Thomas F., *et al.* (See Dunn, Peter S., assignor.)
Fitzsimmons, Thomas F., Brooklyn, N. Y. Gas-producer. No. 1,016,133; Jan. 30; Sp. p. 6673; Gaz. vol. 174; p. 1160.
Fitzsimons, Oscar S., assignor to The Novelty Manufacturing Company, Waterbury, Conn. Flag-holder attachment for automobile-radiators, &c. No. 1,022,360; Apr. 2; Sp. p. 1263; Gaz. vol. 177; p. 203.
Fiveshilling, Albert D. (See Reed and Fiveshilling.)
Fivey, Robert E., Newark, N. J. Resilient wheel for vehicles. No. 1,046,760; Dec. 10; Gaz. vol. 185; p. 376.
Fixen, Laura G., Chicago, Ill. Electrolytic apparatus. No. 1,026,857; May 21; Sp. p. 3885; Gaz. vol. 178; p. 670.
Fixmer, Hugh J., assignor of one-half to Siemert-Callsen Company, Chicago, Ill. Cross-walk. No. 1,043,310; Nov. 5; Gaz. vol. 184; p. 95.
Fizer, Amos D., assignor of one-half to A. P. Free, Chetopa, Kans. Egg-testing device. No. 1,032,888; July 16; Gaz. vol. 180; p. 786.
Flaccus, Ludwig C., assignor to Stettiner Chamotte-Fabrik Actien-Gesellschaft vorm. Didier, Stettin, Germany. Hoisting device for oven-doors. No. 1,017,142; Feb. 13; Sp. p. 2034; Gaz. vol. 175; p. 349.
Flaccus, Ludwig C., assignor to Stettiner Chamotte-Fabrik Actien-Gesellschaft vormals Didier, Stettin, Germany. Reversing mechanism in ovens of the regenerative type. No. 1,032,129; July 9; Gaz. vol. 180; p. 482.
Flachaire, Charles P., Paris, France. Changeable sign. No. 1,033,239; July 23; Gaz. vol. 180; p. 944.
Flächer, Franz. (See Stolz and Flächer.)
Flack, Fred L., Oskaloosa, Iowa. Staple-attaching device for molded fence-posts. No. 1,029,859; June 18; Sp. p. 3918; Gaz. vol. 179; p. 682.
Fladby, John B. (See Fladby, Ole A. and J. B.)
Fladby, Ole A. and J. B., Rutland, N. D. Buggy-evener clevis. No. 1,016,134; Jan. 30; Sp. p. 6676; Gaz. vol. 174; p. 1160.
Flade, George F. (See Reith and Flade.)
Flagg, Arthur B., Worcester, and W. H. Livermore, assignors to Livermore Pay Station Company, Boston, Mass. Coin-separator. No. 1,024,442; Apr. 23; Sp. p. 5733; Gaz. vol. 177; p. 998.
Flagg, Fred F. (See Smith and Flagg.)
Flagge, Phillipp F., assignor to Milwaukee Corrugating Company, Milwaukee, Wis. Eaves-trough. No. 1,020,087; Mar. 12; Sp. p. 2301; Gaz. vol. 176; p. 394.
Flagstad, Oscar A. (See Flagstad, Peter C. and O. A.)
Flagstad, Peter C. and O. A., St. Paul, Minn. Machine for making pastry cones. No. 1,019,237; Mar. 5; Sp. p. 509; Gaz. vol. 176; p. 80.
Flagstad, Peter C. and O. A., St. Paul, Minn. Machine for making pastry cones. No. 1,019,238; Mar. 5; Sp. p. 511; Gaz. vol 176; p. 81.
Flagstad, Peter C. and O. A., St. Paul, Minn. Machine for making pastry cones. No. 1,019,239; Mar. 5; Sp. p. 513; Gaz. vol. 176; p. 81.
Flaherty, James P., West Bend, Wis. Dental apparatus. No. 1,046,166; Dec. 3; Gaz. vol. 185; p. 126.
Flaherty, John F., assignor to The Timken Roller Bearing Company, Canton, Ohio. Gaging and assorting machine. No. 1,034,097; July 30; Gaz. vol. 180; p. 1260.
Flak, Marcin, Port Jefferson, N. Y. Tie and rail-fastener. No. 1,020,406; Mar. 19; Sp. p. 2961; Gaz. vol. 176; p. 538.
Flamm, Paul R., North Chicago, Ill. Mechanic's furnace. No. 1,036,086; Aug. 20; Gaz. vol. 181; p. 639.
Flamm, Paul R., North Chicago, Ill. Valve. No. 1,036,479; Aug. 20; Gaz. vol. 181; p. 776.
Flanagan, George J., Chicago, Ill. Book-holder. No. 1,021,183; Mar. 26; Sp. p. 4625; Gaz. vol. 176; p. 848.
Flanagan, John B. (See Krenz, Frank A., assignor.)
Flanagan, Liberty K., assignor of one-half to J. H. Fuller, Moberly, Mo. Convertible vapor-lamp. No. 1,036,209; Aug. 20; Gaz. vol. 181; p. 683.
Flanagan, Liberty K., and C. A. Miller, Moberly, Mo. Flash-light. No. 1,013,287; Jan. 2; Sp. p. 450; Gaz. vol. 174; p. 69.
Flanagan, Mark T. (See Roberts and Flanagan.)
Flanders, Walter E. (See Heaslet, James G., assignor.)
Flanders, Warren B., Pittsburgh, Pa., assignor to The Westinghouse Machine Company. Blade-mounting. No. 1,020,750; Mar. 19; Sp. p. 3724; Gaz. vol. 176; p. 653.
Flanders, Warren B., assignor, by mesne assignments, to The Colonial Trust Company, trustee, Pittsburgh, Pa. Means for securing blades. No. 1,026,087; May 14; Sp. p. 2213; Gaz. vol. 178; p. 373.
Flanigan, David A., assignor to Utah Aerial Navigation and Power Company, Springville, Utah. Windmill. No. 1,042,779; Oct. 29; Gaz. vol. 183; p. 1182.
Flanigan, David A., assignor to Utah Aerial Navigation and Power Company, Springville, Utah. Airship. No. 1,043,004; Oct. 29; Gaz. vol. 183; p. 1259.
Flanigan, John J., assignor to Duplicator Manufacturing Company, Chicago, Ill. Copying-machine. No. 1,019,312; Mar. 5; Sp. p. 687; Gaz. vol. 176; p. 107.
Flanigan, John V. (See Lord, Lindberg, and Flanigan.)
Flaniken, William F., Cisco, Tex. Sash-fastener. No. 1,048,401; Dec. 24; Gaz. vol. 185; p. 998.
Flannery Bolt Company. (See Stafford, Benjamin E. D., assignor.)
Flannery, John L. (See Boye, James H., assignor.)
Flattum, Albert L., Butler, S. D. Harrow. No. 1,015,548; Jan. 23; Sp. p. 5420; Gaz. vol. 174; p. 929.
Flax, Charles. (See Oswald and Flax.)
Flaxbaum, Samuel, New York, N. Y. Loop for straps of bags, &c. No. 1,030,069; June 18; Sp. p. 4369; Gaz. vol. 179; p. 753.
Flechsing, William H., Victoria, British Columbia, Canada. Corset-stay. No. 1,038,107; Sept. 10; Gaz. vol. 182; p. 344.
Fleck, Charles. (See Schneider, Loeffler, and Fleck.)
Fleck, Herman, Golden, assignor to The National Onion Salt Company, Denver, Colo. Seasoning material and making same. No. 1,038,334; Sept. 10; Gaz. vol. 182; p. 421.
Flegel, Frederick W., assignor to E. J. Schowalter, Racine, Wis. Toy. No. 1,025,969; May 14; Sp. p. 1920; Gaz. vol. 178; p. 331.
Flegel, Harrison D., assignor to E. J. Schowalter, Racine, Wis. Adjustable dial-scale. No. 1,028,700; June 4; Sp. p. 1351; Gaz. vol. 179; p. 211.
Flegel, Harrison D., Racine, Wis., assignor to P. E. Tanner, Akron, Ohio. Gage. No. 1,046,761; Dec. 10; Gaz. vol. 185; p. 377.
Fleischer, Emil, Dresden-Alstadt, Germany. Making hot producer-gas. No. 1,041,058; Oct. 15; Gaz. vol. 183; p. 534.
Fleischman, Frederick. (See Rosenfeld, Rosenthal, and Fleischman.)
Fleischmann, Joseph, and P. Wolf, Marshfield, Wis. Governor-controlled igniter. No. 1,037,462; Sept. 3; Gaz. vol. 182; p. 98.
Fleishman, Frank M., Merna, Nebr. Doubletree. No. 1,032,749; July 16; Gaz. vol. 180; p. 741.
Fleming, Alexander, Cedar Rapids, Iowa. Reinforcement for cement constructions. No. 1,031,700; July 9; Gaz. vol. 180; p. 338.
Fleming, Clarence G., Phillips, Nebr. Harvesting and husking machine. No. 1,037,826; Sept. 3; Gaz. vol. 182; p. 216.
Fleming, Douglas P., assignor to Simplex Metal Bound Box Company, Chicago, Ill. Box. No. 1,022,780; Apr. 9; Sp. p. 2210; Gaz. vol. 177; p. 378.
Fleming, Edward, Columbus, assignor of one-half to W. M. Myers, Lockbourne, and one-fourth to W. D. Hopkins, Columbus, Ohio. Picture-holder. No. 1,023,072; Apr. 9; Sp. p. 2805; Gaz. vol. 177; p. 477.
Fleming, Edward, and A. M. Marsh, assignors of one-third to W. D. Hopkins, Columbus, Ohio. Sash-lock. No. 1,019,623; Mar. 5; Sp. p. 1367; Gaz. vol. 176; p. 208.
Fleming, George R., Yates Center, Kans. Corn-planter. No. 1,042,334; Oct. 22; Gaz. vol. 183; p. 998.
Fleming, Herbert, assignor to Hardwick & Magee Company, Philadelphia, Pa. Card-punching machine. No. 1,015,619; Jan. 23; Sp. p. 5577; Gaz. vol. 174; p. 955.
Fleming, Herman. (See Carstens, Charles, assignor.)
Fleming, James R., Scranton, Pa. Axle-box. No. 1,014,214; Jan. 9; Sp. p. 2485; Gaz. vol. 174; p. 418.
Fleming, James R., Scranton, Pa. Car-wheel slide-shoe. No. 1,042,900; Oct. 29; Gaz. vol. 183; p. 1224.
Fleming, John A., St. Louis, Mo. Point-guard for hat-pins. No. 1,040,921; Oct. 8; Gaz. vol. 183; p. 454.
Fleming, Luke G., Tarrytown, N. Y. Vehicle wheel-tire. No. 1,021,307; Mar. 26; Sp. p. 4882; Gaz. vol. 176; p. 891.
Fleming, Melvin J., Greenwood, and T. O. Ballard, Franklin, assignors to G. Johnson, Greenwood, Ind. Package-filler. No. 1,046,762; Dec. 10; Gaz. vol. 185; p. 377.
Fleming, Richard, Westfield, N. J. Smelting ores and apparatus therefor. No. 1,020,546; Mar. 19; Sp. p. 3262; Gaz. vol. 176; p. 584.
Fleming, Richard, Lynn, Mass., assignor to General Electric Company. Induction-furnace. No. 1,020,688; Mar. 19; Sp. p. 3581; Gaz. vol. 176; p. 630.
Fleming, Richard, Swampscott, and E. J. Guay, Lynn, Mass., assignors to General Electric Company. Arc-lamp. No. 1,022,541; Apr. 9; Sp. p. 1660; Gaz. vol. 177; p. 295

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Fleming, Wills M., Holyoke, Mass., assignor to International Steam Pump Company. Pump. No. 1,018,751; Feb. 27; Sp. p. 5615; Gaz. vol. 175; p. 970.
Fleming, Wyatt A., and B. Anderson, Adkins, Tex. Railway-gate. No. 1,034,701; Aug. 6; Gaz. vol. 181; p. 100.
Flemming, Paul, Hamburg, Germany. Halogenphenol-alkali salts and manufacture of same. No. 1,036,087; Aug. 20; Gaz. vol. 181; p. 639.
Flentje, Ernst, Cambridge, Mass. Shock-absorber. No. 1,013,384; Jan. 2; Sp. p. 653; Gaz. vol. 174; p. 103.
Flentje, Ernst, Cambridge, Mass. Shock-absorber. No. 1,045,136; Nov. 26; Gaz. vol. 184; p. 817.
Fletcher, Alfred H., New York, N. Y. Trolley-retainer. No. 1,019,774; Mar. 12; Sp. p. 1665; Gaz. vol. 176; p. 290.
Fletcher, Bernard M., London, England. Protecting device for books. No. 1,021,832; Apr. 2; Sp. p. 182; Gaz. vol. 177; p. 30.
Fletcher, Edward F. (See Bemis, Gilbert C., assignor.)
Fletcher, Edward F., Worcester, Mass. Glass-gage cutter. No. 1,028,870; June 11; Sp. p. 1737; Gaz. vol. 179; p. 304.
Fletcher, George W., Mendon, Ill. Ringing and docking instrument. No. 1,015,162; Jan. 16; Sp. p. 4572; Gaz. vol. 174; p. 771.
Fletcher, George W., Mendon, Ill. Ringing and docking instrument. No. 1,042,901; Oct. 29; Gaz. vol. 183; p. 1224.
Fletcher, George W., Lima, Ill. Automatic hog and stock watering device. No. 1,025,461; May 7; Sp. p. 791; Gaz. vol. 178; p. 123.
Fletcher, Henry, Spring Hill, Brisbane, Queensland, Australia. Combined smoothing and glazing sad-iron. No. 1,016,879; Feb. 6; Sp. p. 1421; Gaz. vol. 175; p. 220.
Fletcher, Henry M., Plainview, Tex. Traction-vehicle. No. 1,024,066; Apr. 23; Sp. p. 4918; Gaz. vol. 177; p. 872.
Fletcher, Ira E., Montello, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Rotary heel-seat maker and counter-pounder. (Reissue.) No. 13,385; Mar. 19; Sp. p. 4140; Gaz. vol. 176; p. 721.
Fletcher, Ira E., and W. J. MacLean, Brockton, Mass., assignors to United Shoe Machinery Company, Paterson, N. J. Sewing-machine. No. 1,017,397; Feb. 13; Sp. p. 2578; Gaz. vol. 175; p. 437.
Fletcher, James G. (See Cleal and Fletcher.)
Fletcher, James R., assignor to The American Hardware Corporation, New Britain, Conn. Door-hinge. No. 1,027,716; May 28; Sp. p. 5739; Gaz. vol. 178; p. 1000.
Fletcher, John T., Boscawen, N. H. Pail-rest. No. 1,040,249; Oct. 1; Gaz. vol. 183; p. 193.
Fletcher, Joseph E., Dudley, England. Heating or circulation of steam-generators. No. 1,032,197; July 9; Gaz. vol. 180; p. 506.
Fletcher, Lauren D. (See Erickson and Fletcher.)
Fletcher, Louis S., Redlands, Cal. Automatic box-board-beveling machine. No. 1,030,295; June 25; Sp. p. 4859; Gaz. vol. 179; p. 870.
Fletcher, Mordecai H., Cincinnati, Ohio. Core. No. 1,038,550; Sept. 17; Gaz. vol. 182; p. 531.
Fletcher, Morris D., assignor to F. E. Bidwell, Springfield, Mass. Wheel-dresser and tool-holder. No. 1,024,126; Apr. 23; Sp. p. 5075; Gaz. vol. 177; p. 893.
Fletcher, Olive L., assignor to Peru Electric Company, Peru, Ind. Strain-insulator. No. 1,028,104; June 4; Sp. p. 25; Gaz. vol. 179; p. 7.
Fletcher, Robert, and R. Riggin, Crossett, Ark. Nut-lock. No. 1,036,598; Aug. 27; Gaz. vol. 181; p. 850.
Fletcher, Roland R., *et al.* (See Jernigan, Lee H., assignor.)
Fletcher, Wilbert C. (See Swoveland, William F., assignor.)
Fletcher, William M., Binghamton, N. Y. Horseshoe. No. 1,027,410; May 28; Sp. p. 5124; Gaz. vol. 178; p. 899.
Fleury, Frank, Brooklyn, N. Y., assignor, by mesne assignments, to United Shoe Machinery Company, Paterson, N. J. Machine for use in the manufacture of boots and shoes. No. 1,048,514; Dec. 31; Gaz. vol. 185; p. 1075.
Fleury, Frank S., Titusville, Pa. Door-catch. No. 1,028,561; June 4; Sp. p. 1087; Gaz. vol. 179; p. 165.
Fleury, James, Lindsay, Ontario, Canada. Corner feed-box. No. 1,047,777; Dec. 17; Gaz. vol. 185; p. 761.
Fleuss, Henry A., Thatcham, and R. H. Davis, London, England. Breathing appliance. No. 1,013,541; Jan. 2; Sp. p. 984; Gaz. vol. 174; p. 157.
Flexible Bolt Company. (See Baker, James H., assignor.)
Flickinger, Joseph M. (See Gustafson and Flickinger.)
Fliedner, Albert O. (See Fliedner, Benjamin F., A. O., and L.)
Fliedner, Benjamin F., A. O., and L., Cleveland, Ohio. Box. No. 1,017,962; Feb. 20; Sp. p. 3852; Gaz. vol. 175; p. 667.
Fliedner, Louis. (See Fliedner, Benjamin F., A. O., and L.)
Fliegler, Isedore, Brooklyn, N. Y. Cleaning-head for whisk-brooms. No. 1,043,414; Nov. 5; Gaz. vol. 184; p. 132.
Flight, John T., Cleveland, Okla. Automatic brake for vehicles. No. 1,029,860; June 18; Sp. p. 3919; Gaz. vol. 179; p. 682.
Flink, Abe, Chicago, Ill. Sheet-metal window-screen. No. 1,029,352; June 11; Sp. p. 2788; Gaz. vol. 179; p. 470.
Flinn, Julius W., Golden, Colo. Attachment for wood-stave conduits. No. 1,020,137; Mar. 12; Sp. p. 2406; Gaz. vol. 176; p. 411.
Flinner, John, Leavenworth, Kans. Gate. No. 1,043,760; Nov. 5; Gaz. vol. 184; p. 251.
Flint, Harvey J. (See Danver, Andrew C., assignor.)
Flint, John B., Boston, Mass. Surface-gage. No. 1,032,999; July 16; Gaz. vol. 180; p. 822.
Flint, John B., St. Joseph, assignor to The Champion Shoe Machinery Company, St. Louis, Mo. Loose-nailing machine. No. 1,026,027; May 14; Sp. p. 2041; Gaz. vol. 178; p. 351.
Flint, John B., St. Joseph, assignor to The Champion Shoe Machinery Company, St. Louis, Mo. String-nailing machine. No. 1,026,028; May 14; Sp. p. 2047; Gaz. vol. 178; p. 352.
Flis, Stanislaw, Curtisville, Pa. Nutcracker. No. 1,044,448; Nov. 12; Gaz. vol. 184; p. 518.
Flitch, Casper, Warner, Alberta, Canada. Reel-carrier. No. 1,022,408; Apr. 9; Sp. p. 1368; Gaz. vol. 177; p. 251.
Flitcroft, James E., Ocean Grove, N. J., assignor to P. Wall, Pittsburgh, Pa. Gasolene blow-torch. No. 1,030,465; June 25; Sp. p. 5239; Gaz. vol. 179; p. 932.
Float Electric Company, The. (See Lowe, William H., assignor.)
Flodin, Nels P., Marquette, assignor of one-half to J. P. Hodgson, Ishpeming, Mich. Ore-loader. No. 1,026,502; May 14; Sp. p. 3111; Gaz. vol. 178; p. 514.
Floh, Friedrich. (See Kohler and Floh.)
Flom, Martin J. A., Madison, Wis. Form for culverts. No. 1,035,336; Aug. 13; Gaz. vol. 181; p. 346.
Flomerfelt, Jacob D., Taft, Fla. Rail-tie. No. 1,020,273; Mar. 12; Sp. p. 2698; Gaz. vol. 176; p. 457.
Flood, Albert H., Bridgeport, Conn. Tooth-brush case. No. 1,029,536; June 11; Sp. p. 3172; Gaz. vol. 179; p. 532.
Flood, Harry J. (See Turner and Flood.)
Flood, James F. (See Harting and Flood.)
Flood, John, Ashtabula, Ohio. Furnace attachment. No. 1,033,571; July 23; Gaz. vol. 180; p. 1054.
Flood, John H., assignor to F. A. Bartlett, trustee, Bridgeport, Conn. Reinforced-cement railroad-tie. No. 1,032,198; July 9; Gaz. vol. 180; p. 507.
Flood, Lawrence J. (See Flood, Walter H., assignor.)
Flood, Walter H., assignor to L. J. Flood, Chicago, Ill. Air-testing apparatus. No. 1,035,337; Aug. 13; Gaz. vol. 181; p. 346.
Floor Sanding and Polishing Machine Company. (See Herr, John, assignor.)
Flora, Ellsworth E., Chicago, Ill. Joining metal-strap ends. No. 1,038,108; Sept. 10; Gaz. vol. 182; p. 345.
Flora, Ellsworth E., Chicago, Ill. Tool for use in fastening metal strips. No. 1,038,109; Sept. 10; Gaz. vol. 182; p. 345.
Flora, Ellsworth E., assignor to Simplex Metal-Bound Box Company, Chicago, Ill. Metal-bound bottle-box. No. 1,027,040; May 21; Sp. p. 4336; Gaz. vol. 178; p. 735.
Flora, Ellsworth E., assignor to Simplex Metal Bound Box Company, Chicago, Ill. Wire-bound box. No. 1,042,100; Oct. 22; Gaz. vol. 183; p. 922.
Flora, Orlando V., Madison, Ind. Sash-cord fastener. No. 1,020,751; Mar. 19; Sp. p. 3725; Gaz. vol. 176; p. 653.
Flora, Orlando V., Madison, Ind. Metal-bound stirrup. No. 1,020,752; Mar. 19; Sp. p. 3726; Gaz. vol. 176; p. 654.
Florence, George. (See Laur and Florence.)
Florence, J. Esdaile, trustee. (See Conley, Michael R., assignor.)
Florence, Joseph G. (See Cheeseman and Florence.)
Florian, Onorato, Genoa, Italy. Combined folding stool and table. No. 1,024,192; Apr. 23; Sp. p. 5225; Gaz. vol. 177; p. 916.
Florstedt, Friedrich, Berlin, assignor to Schleifmaschinen Verwertungs Gesellschaft m. b. H., Berlin-Wilmersdorf, Germany. Device for grinding artificial-stone plates. No. 1,035,562; Aug. 13; Gaz. vol. 181; p. 424.
Flory, Burton P., Middletown, N. Y., assignor to Flory Carry-Iron Company, St. Louis, Mo. Car-draw-bar carry-iron. No. 1,027,194; May 21; Sp. p. 4678; Gaz. vol. 178; p. 786.
Flory Carry-Iron Company. (See Flory, Burton P., assignor.)
Flory-Carry Iron Company. (See Westlake, Charles T., assignor.)
Flory, Llewellyn H., Ashley, Pa. Shears. No. 1,037,827; Sept. 3; Gaz. vol. 182; p. 217.
Floto, Matthew W., Chicago, Ill. Desk-pad. No. 1,037,607; Sept. 3; Gaz. vol. 182; p. 144.
Flounders, Frank R. (See Flounders, Frederick H. and F. R.)

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Flounders, Frederick H. and F. R., Ridgely, Md. Machine for feeding and placing can-caps. No. 1,047,026; Dec. 10; Gaz. vol. 185; p. 463.
Flounders, Isaac N. (See Frank, Samuel D., assignor.)
Flour City Ornamental Iron Works. (See Murphy, John F., assignor.)
Flournoy, Alexander H., Healdsburg, Cal. Vehicle-wheel. No. 1,036,599; Aug. 27; Gaz. vol. 181; p. 850.
Flower, Homer. (See Gunn, Selim W., assignor.)
Flowers, Charles P., assignor of one-half to F. Spinnenweber, Pocahontas, Ark. Concrete-block machine. No. 1,048,515; Dec. 31; Gaz. vol. 185; p. 1076.
Flowers, Clifford, Camden, Ohio. Quick-repair shoe for corn-planters. No. 1,018,105; Feb. 20; Sp. p. 4173; Gaz. vol. 175; p. 718.
Floyd, George G., Granite City, Ill., assignor to American Steel Foundries, New York, N. Y. Car-truck journal-box and oil-cellar. No. 1,026,979; May 21; Sp. p. 4181; Gaz. vol. 178; p. 714.
Floyd, John B., Los Angeles, Cal. Pump. No. 1,046,167; Dec. 3; Gaz. vol. 185; p. 126.
Flues, Robert C., New York, N. Y. Window-insert for umbrellas. No. 1,023,635; Apr. 16; Sp. p. 3999; Gaz. vol. 177; p. 702.
Flugel, Bernhard J. V. A., London, England. Type-writing machine. No. 1,027,717; May 28; Sp. p. 5739; Gaz. vol. 178; p. 1000.
Flürscheim, Bernhard J., Fleet, England. Nitro derivative of anilin and manufacture of same. No. 1,045,011; Nov. 19; Gaz. vol. 184; p. 746.
Flürscheim, Bernhard J., Fleet, England. Explosive. No. 1,045,012; Nov. 19; Gaz. vol. 184; p. 746.
Flynn, Daniel W. (See Magoon, Edwin C., assignor.)
Flynn, Frank L., Wilkes-Barre, Pa. Miner's lamp. No. 1,032,130; July 9; Gaz. vol. 180; p. 482.
Flynn, Michael, Minneapolis, Minn. Thresher-concave. No. 1,040,301; Oct. 8; Gaz. vol. 183; p. 241.
Flynn, Michael J., New Brunswick, N. J., assignor of one-half to E. W. McCarty, New York, N. Y. Door check and closer. No. 1,020,033; Mar. 12; Sp. p. 2186; Gaz. vol. 176; p. 377.
Flynt, Edward E., New York, assignor of one-fourth to W. T. Noble, Brooklyn, N. Y., and one-fourth to D. Macwatty, Hasbrouck Heights, N. J. Twin waste for soapstone washtubs. No. 1,016,880; Feb. 6; Sp. p. 1422; Gaz. vol. 175; p. 221.
Flynt, Louis W. G., assignor to Domestic Appliances Company, Rochester, N. Y. Vacuum cleaning apparatus. No. 1,013,147; Jan. 2; Sp. p. 112; Gaz. vol. 174; p. 20.
Flynt, Louis W. G., assignor to Domestic Appliances Company, Rochester, N. Y. Steam-generator. No. 1,024,845; Apr. 30; Sp. p. 6688; Gaz. vol. 177; p. 1177.
Flynt, Louis W. G., assignor to Domestic Appliances Company, Rochester, N. Y. Safety device for gas-burners. No. 1,027,534; May 28; Sp. p. 5370; Gaz. vol. 178; p. 940.
Flynt, Louis W. G., Rochester, N. Y., assignor to Domestic Appliances Company. Vacuum apparatus. No. 1,029,746; June 18; Sp. p. 3647; Gaz. vol. 179; p. 643.
Flynt, Louis W. G., Rochester, N. Y., assignor to Domestic Appliances Company. Steam-boiler. No. 1,037,884; Sept. 10; Gaz. vol. 182; p. 269.
Flynt, Louis W. G., assignor to Q. W. Booth, Rochester, N. Y. Skiving-machine. No. 1,017,963; Feb. 20; Sp. p. 3854; Gaz. vol. 175; p. 668.
Flynt, Louis W. G., Rochester, N. Y., assignor to United Shoe Machinery Company, Paterson, N. J. Shoe-upper-beading machine. No. 1,027,411; May 28; Sp. p. 5125; Gaz. vol. 178; p. 900.
Flynt, Louis W. G., Rochester, N. Y., assignor to United Shoe Machinery Company, Paterson, N. J. Snipping-machine. No. 1,029,058; June 11; Sp. p. 2144; Gaz. vol. 179; p. 369.
Flynt, Louis W. G., Rochester, N. Y., assignor, by mesne assignments, to United Shoe Machinery Company, Paterson, N. J. Eccentric wheeler. No. 1,030,576; June 25; Sp. p. 5584; Gaz. vol. 179; p. 971.
Flynt, Louis W. G., assignor to Q. W. and I. E. Booth, Rochester, N. Y. Skiving-machine. No. 1,015,882; Jan. 30; Sp. p. 6136; Gaz. vol. 174; p. 1071.
Flyte, Richard, Satsop, Wash. Insole. No. 1,036,821; Aug. 27; Gaz. vol. 181; p. 923.
Foans, Andrew B., New York, N. Y. Combination can-opener and spout. No. 1,016,135; Jan. 30; Sp. p. 6677; Gaz. vol. 174; p. 1160.
Focke, Georg G., Dresden, Germany. Machine for making artificial foliage. No. 1,026,387; May 14; Sp. p. 2868; Gaz. vol. 178; p. 475.
Foehl, Charles, Philadelphia, Pa. Automatic shell-ejecting device for revolvers. No. 1,019,446; Mar. 5; Sp. p. 1019; Gaz. vol. 176; p. 149.
Foell, Otto, Newark, N. J., A. Kusebauch and R. Neckerman, Pittsburgh, Pa., assignors, by mesne assignments, to Nernst Lamp Company. Heater and glower renewal for lamps. No. 1,029,114; June 11; Sp. p. 2270; Gaz. vol. 179; p. 388.
Foerst, John, Newark, N. J. Scale. No. 1,019,447; Mar. 5; Sp. p. 1021; Gaz. vol. 176; p. 150.
Foerster, Harry E. J., St. Louis, Mo. Spring-wheel. No. 1,023,010; Apr. 9; Sp. p. 2676; Gaz. vol. 177; p. 456.
Foersterlin, Hans, New York, N. Y. Making metal oxids. No. 1,019,004; Feb. 27; Sp. p. 6156; Gaz. vol. 175; p. 1057.
Foersterling, Hans. (See Hoyler, Gardner, and Foersterling.)
Foersterling, Hans, Perth Amboy, N. J., assignor to Roessler and Hasslacher Chemical Company. Gas-generating plant. No. 1,015,549; Jan. 23; Sp. p. 5422; Gaz. vol. 174; p. 929.
Foersterling, Hans, Perth Amboy, N. J., assignor to Roessler & Hasslacher Chemical Company, New York, N. Y. Method of and apparatus for generating gas, steam, and power. No. 1,015,550; Jan. 23; Sp. p. 5423; Gaz. vol. 174; p. 929.
Foertsch, George C., Grand Rapids, Mich. Adjustable curtain-bracket. No. 1,042,421; Oct. 29; Gaz. vol. 183; p. 1056.
Fogarty, George E., assignor to Fitchburg Machine Works, Fitchburg, Mass. Tool-carrier. No. 1,027,535; May 28; Sp. p. 5373; Gaz. vol. 178; p. 941.
Fogarty, James H., New York, N. Y., assignor of fifty-one one-hundredths to E. J. Métérié, East Orange, N. J. Cane-mill. No. 1,037,885; Sept. 10; Gaz. vol. 182; p. 270.
Fogarty, John G., Carthage, N. Y. Hoisting-machine. No. 1,021,402; Mar. 26; Sp. p. 5118; Gaz. vol. 176; p. 925.
Fogarty, Martin J. (See Berlin and Fogarty.)
Fogelsong, Olof F., Chicago, Ill. Composition insole. No. 1,027,412; May 28; Sp. p. 5133; Gaz. vol. 178; p. 900.
Fogelstrom, Walter J. H. (See Todd and Fogelstrom.)
Fogleman, Oscar L., St. Louis, Mo. Chuck. No. 1,028,562; June 4; Sp. p. 1088; Gaz. vol. 179; p. 165.
Fogler, George L., Pittsburgh, Pa. Gas-burning furnace. No. 1,045,829; Dec. 3; Gaz. vol. 185; p. 12.
Fokken, Adelbert A., Raymond, S. D. Flying-machine. No. 1,021,925; Apr. 2; Sp. p. 359; Gaz. vol. 177; p. 60.
Folan, Peter, Clarksburg, W. Va. Music-leaf turner. No. 1,016,002; Jan. 30; Sp. p. 6397; Gaz. vol. 174; p. 1113.
Folberth, Frederick G. (See Eklund and Folberth.)
Folberth, William M. (See Eklund and Folberth.)
Folding Umbrella Co. (See Lundquist, Frank A., assignor.)
Foley, Bartholomew H. and Z. J., Stockton, Cal. Non-refillable bottle. No. 1,029,985; June 18; Sp. p. 4179; Gaz. vol. 179; p. 724.
Foley, Hugh B., and J. F. Tracey, assignors to The Foley-Wardwell Manufacturing Company, Cleveland, Ohio. Portable grinding device for sharpening knives of jointing or planing machines. No. 1,038,500; Sept. 10; Gaz. vol. 182; p. 479.
Foley, James W., Denver, Colo. Downdraft smoke-carbonizing furnace. No. 1,019,624; Mar. 5; Sp. p. 1368; Gaz. vol. 176; p. 208.
Foley, Timothy R. (See Hall, Charles H., assignor.)
Foley-Wardwell Manufacturing Company, The. (See Foley and Tracey, assignors.)
Foley, Zella J. (See Foley, Bartholomew H. and Z. J.)
Folger, Harry S., Chicago, Ill. Stamp-pad. No. 1,024,193; Apr. 23; Sp. p. 5227; Gaz. vol. 177; p. 916.
Folger, Harry S., Chicago, Ill., and A. M. Comstock, Muskegon, Mich., assignors to H. S. Folger and O. Romel, trustees, Chicago, Ill. Hand-stamp. No. 1,029,568; June 11; Sp. p. 3245; Gaz. vol. 179; p. 544.
Folger, Henry C., Somerville, Mass., assignor to Nu-Vo M'f'g. Co. Electrical hair and scalp treating instrument. No. 1,029,861; June 18; Sp. p. 3920; Gaz. vol. 179; p. 682.
Folk, Samuel E., Bryan, Ohio. Pump. No. 1,014,289; Jan. 9; Sp. p. 2663; Gaz. vol. 174; p. 444.
Folkes, Hermann, Sr., New York, N. Y. Device for cleansing cutlery and the like. No. 1,018,752; Feb. 27; Sp. p. 5616; Gaz. vol. 175; p. 971.
Folkes, Hermann, Sr., New York, N. Y. Device for cleansing cutlery and the like. No. 1,018,753; Feb. 27; Sp. p. 5618; Gaz. vol. 175; p. 971.
Folks, Willis K. (See Armstrong, Martin, assignor.)
Follansbee, Frank J., Hope, R. I. Self-conforming anatomical truss. No. 1,044,159; Nov. 12; Gaz. vol. 184; p. 419.
Follansbee, Minot F., Whitman, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Heel-attaching machine. No. 1,030,577; June 25; Sp. p. 5590; Gaz. vol. 179; p. 971.
Follett, Jennie L., Adams, Mass. Collapsible cup. No. 1,020,347; Mar. 12; Sp. p. 2831; Gaz. vol. 176; p. 480.
Folliet, Alexandre, Brussels, Belgium. Agglomerating process. No. 1,029,182; June 11; Sp. p. 2407; Gaz. vol. 179; p. 410.
Folmer, William F., assignor to Eastman Kodak Co., Rochester, N. Y. Photographic camera. No. 1,023,930; Apr. 23; Sp. p. 4636; Gaz. vol. 177; p. 825.
Folmer, William F., assignor to Eastman Kodak Co., Rochester, N. Y. Camera. No. 1,023,931; Apr. 23; Sp. p. 4641; Gaz. vol. 177; p. 825.
Folmer, William F., assignor to Eastman Kodak Co., Rochester, N. Y. Photographic camera. No. 1,023,932; Apr. 23; Sp. p. 4646; Gaz. vol. 177; p. 826.
Folmer, William F., assignor to Eastman Kodak Company, Rochester, N. Y. Film-winding key for cameras. No. 1,023,933; Apr. 23; Sp. p. 4648; Gaz. vol. 177; p. 826.

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Folmer, William F., assignor to Eastman Kodak Co., Rochester, N. Y. Multiplying-back for cameras. No. 1,045,539; Nov. 26; Gaz. vol. 184; p. 960.
Folsom, John E., St. Louis, Mo. Telegraph-key. No. 1,017,398; Feb. 13; Sp. p. 2581; Gaz. vol. 175; p. 437.
Fonda, Roy D. (See Waddill and Fonda.)
Fonger, William, Chicago, Ill. Guard or fender for street-cars or the like. No. 1,023,464; Apr. 16; Sp. p. 3642; Gaz. vol. 177; p. 646.
Fontannaz, Louis, New York, N. Y. Swinging stop device for sliding sashes. No. 1,047,191; Dec. 17; Gaz. vol. 185; p. 551.
Fontecha, Juan M. S., assignor to Compania Explotadora de los Inventos Juliá S. A., Mexico, Mexico. Safety device for electric-current machinery. No. 1,035,563; Aug. 13; Gaz. vol. 181; p. 424.
Foody, James T. (See Davis, Elias V., assignor.)
Fooks, Frederick E., Baltimore, Md. Device for cutting hair. No. 1,013,874; Jan. 9; Sp. p. 1760; Gaz. vol. 174; p. 301.
Foor, Frank E., Indianapolis, Ind. Combination-tool. No. 1,026,347; May 14; Sp. p. 2776; Gaz. vol. 178; p. 463.
Foote Axle Company. (See Foote and Schabinger, assignors.)
Foote, Chester T., assignor to Foote Manufacturing Company, Nunda, N. Y. Mixing-machine. No. 1,025,462; May 7; Sp. p. 792; Gaz. vol. 178; p. 124.
Foote, Chester T., assignor to Foote Manufacturing Company, Nunda, N. Y. Mixing-machine. No. 1,025,907; May 7; Sp. p. 1789; Gaz. vol. 178; p. 275.
Foote, Frank M., and C. H. Schabinger, assignors to Foote Axle Company, Marshall, Mich. Thill-coupling attachment. No. 1,023,106; Apr. 9; Sp. p. 2877; Gaz. vol. 177; p. 489.
Foote, Frank M., and C. H. Schabinger, assignors to Foote Axle Company, Marshall, Mich. Thill-coupling. No. 1,031,673; July 2; Gaz. vol. 180; p. 286.
Foote, George L., Brooklyn, assignor to Foote, Pierson & Company, New York, N. Y. Non-interference signal-box. No. 1,043,818; Nov. 12; Gaz. vol. 184; p. 302.
Foote, James H., Cincinnati, Ohio. Sash-pulley. No. 1,029,003; June 11; Sp. p. 2037; Gaz. vol. 179; p. 350.
Foote, James H., Cincinnati, Ohio. Sash-pulley. No. 1,029,004; June 11; Sp. p. 2040; Gaz. vol. 179; p. 351.
Foote, James H., Cincinnati, Ohio. Sash-cord pulley. No. 1,029,005; June 11; Sp. p. 2043; Gaz. vol. 179; p. 351.
Foote, James H., Cincinnati, Ohio. Sash-cord pulley. No. 1,029,006; June 11; Sp. p. 2045; Gaz. vol. 179; p. 352.
Foote, John B., Oak Park, Ill. Fruit-pitting machine. No. 1,024,564; Apr. 30; Sp. p. 6085; Gaz. vol. 177; p. 1077.
Foote, John B., Oak Park, Ill. Fruit-pitting machine. No. 1,024,625; Apr. 30; Sp. p. 6229; Gaz. vol. 177; p. 1098.
Foote, John H., Dayton, Ohio. Thread-supporting device for sewing-machines. No. 1,033,165; July 23; Gaz. vol. 180; p. 918.
Foote, Julian E., Topeka, Kans. Rail-joint fastener. No. 1,021,514; Mar. 26; Sp. p. 5362; Gaz. vol. 176; p. 965.
Foote Manufacturing Company. (See Foote, Chester T., assignor.)
Foote, Mark A., *et al.* (See Kincaid, Ira, assignor.)
Foote, Pierson & Company. (See Foote, George L., assignor.)
Foothorap, Harry A., assignor to Elliott-Fisher Company, Harrisburg, Pa. Ribbon mechanism for type-writers. No. 1,039,920; Oct. 1; Gaz. vol. 183; p. 83.
Foppiano, Antonio, Boston, Mass. Machine for cutting holes in glass, marble, and like material. No. 1,048,059; Dec. 24; Gaz. vol. 185; p. 882.
Foraker, George W., Seattle, Wash. Machine for bending rods. No. 1,044,766; Nov. 19; Gaz. vol. 184; p. 662.
Forbes, Buford F., Seattle, Wash. Car-door. No. 1,036,989; Aug. 27; Gaz. vol. 181; p. 980.
Forbes, Ewing M., Chicago, Ill. Door-mat. No. 1,028,871; June 11; Sp. p. 1738; Gaz. vol. 179; p. 304.
Forbes, Ewing M., Chicago, Ill. Door-mat. (Reissue.) No. 13,460; Aug. 27; Gaz. vol. 181; p. 1045.
Forbes, Kenneth S. (See Semran and Forbes.)
Forbes Lithograph Manufacturing Company. (See Guillo, Harry P., assignor.)
Forbes, Thomas C., assignor to Los Angeles Rotary Gas Engine Company, Los Angeles, Cal. Ignition timer and detector. No. 1,019,886; Mar. 12; Sp. p. 1879; Gaz. vol. 176; p. 328.
Forbes, William A., Butler, Ohio. Fodder binder and truck. No. 1,015,673; Jan. 23; Sp. p. 5693; Gaz. vol. 174; p. 973.
Force, David E., Jersey City, N. J. Combined music stand and holder and carrying-case for the same. No. 1,014,381; Jan. 9; Sp. p. 2883; Gaz. vol. 174; p. 477.
Forchheimer, Philipp, Gratz, Austria-Hungary, assignor to Berlin-Anhaltische Maschinenbau-Actien-Gesellschaft, Berlin, Germany. Tank of large diameter. No. 1,014,054; Jan. 9; Sp. p. 2164; Gaz. vol. 174; p. 362.
Ford, Albert J., New York, N. Y., assignor to the Fuchs & Lang Manufacturing Company. Automatic trip mechanism for printing-presses. No. 1,034,776; Aug. 6; Gaz. vol. 181; p. 126.
Ford, Albert J., New York, N. Y., assignor to The Fuchs & Lang Manufacturing Company. Blanket-clamping means for offset printing-presses. No. 1,043,819; Nov. 12; Gaz. vol. 184; p. 303.
Ford, Alex E., Divernon, Ill. Brooder. No. 1,029,537; June 11; Sp. p. 3173; Gaz. vol. 179; p. 532.
Ford, Arthur C., and T. Ellis, Helena, Mont. Combination match-safe. No. 1,048,402; Dec. 24; Gaz. vol. 185; p. 998.
Ford, Arthur W., assignor to H. T. P. Bates, Quincy, Mass. Post. No. 1,018,754; Feb. 27; Sp. p. 5619; Gaz. vol. 175; p. 971.
Ford, Ben K. (See Harbeck and Ford.)
Ford, Charles T., Washington, D. C. Cover for service-boxes. No. 1,014,138; Jan. 9; Sp. p. 2335; Gaz. vol. 174; p. 390.
Ford, Edwin H., Hartford City, Ind. Lamp. No. 1,013,542; Jan. 2; Sp. p. 986; Gaz. vol. 174; p. 158.
Ford, Frank W., assignor of one-third to R. B. McFerran and one-third to B. S. Hoar, Minneapolis, Minn. Gas-saving device. No. 1,028,105; June 4; Sp. p. 26; Gaz. vol. 179; p. 7.
Ford, Grant G., Speed, Kans. Medicinal needle. No. 1,020,753; Mar. 19; Sp. p. 3727; Gaz. vol. 176; p. 654.
Ford, Hannibal C., Syracuse, N. Y., assignor to Union Typewriter Company, Jersey City, N. J. Type-writing machine. No. 1,044,037; Nov. 12; Gaz. vol. 184; p. 379.
Ford, Harry J., San Quentin, Cal., assignor of one-half to W. J. Hill. Electromagnetic engine. No. 1,018,309; Feb. 20; Sp. p. 4584; Gaz. vol. 175; p. 787.
Ford, Henry, Detroit, Mich. Traction-engine. No. 1,036,480; Aug. 20; Gaz. vol. 181; p. 776.
Ford, Henry, Detroit, Mich. Spring suspension. No. 1,044,038; Nov. 12; Gaz. vol. 184; p. 379.
Ford, Hugh A., Charlottesville, Va. Detonating alarm. No. 1,047,778; Dec. 17; Gaz. vol. 185; p. 761.
Ford, John. (See Parsons, Wilson, and Ford.)
Ford, John C., Keokuk, Iowa. Skin-treating device. No. 1,027,718; May 28; Sp. p. 5740; Gaz. vol. 178; p. 1000.
Ford, Kelsie B., assignor to Eastwood-Park Company, Newark, N. J. Hand-bag or the like. No. 1,018,417; Feb. 27; Sp. p. 4840; Gaz. vol. 175; p. 857.
Ford, Louis M., New Haven, Conn., assignor to The Greist Manufacturing Company. Tuck-creaser or tucker for sewing-machines. No. 1,037,608; Sept. 3; Gaz. vol. 182; p. 144.
Ford, Olpha A., Portland, Me., assignor of one-half to M. J. Thompson, Kennebunk, Me. Making artificial fuel. No. 1,031,255; July 2; Gaz. vol. 180; p. 144.
Ford, Raymond S., assignor to L. F. Bates, Cuba, N. Y. Display-rack. No. 1,024,253; Apr. 23; Sp. p. 5359; Gaz. vol. 177; p. 939.
Ford, Thomas B., Fairfield, Iowa. Adjustable window-screen. No. 1,023,780; Apr. 16; Sp. p. 4240; Gaz. vol. 177; p. 745.
Ford, Thomas C., Tacoma, Wash. Flue-protecting plug. No. 1,031,992; July 9; Gaz. vol. 180; p. 438.
Ford, William C., Lawrence, Mass. Key-ring. No. 1,026,348; May 14; Sp. p. 2778; Gaz. vol. 178; p. 463.
Fordon, Alexander A. (See Morrison and Fordon.)
Fordon, Alexander A., Detroit, and G. L. Morrison, Hudson, Mich. Butter-dish. No. 1,027,719; May 28; Sp. p. 5741; Gaz. vol. 178; p. 1001.
Fordyce, Edmond A., assignor, by mesne assignments, to American Pneumatic Service Company, Boston, Mass. Pneumatic-despatch-tube apparatus. No. 1,013,148; Jan. 2; Sp. p. 113; Gaz. vol. 174; p. 21.
Fordyce, Edmond A., assignor, by mesne assignments, to American Pneumatic Service Company, Boston, Mass. Pneumatic-despatch-tube apparatus. No. 1,040,302; Oct. 8; Gaz. vol. 183; p. 242.
Fordyce, Edmond A., assignor, by mesne assignments, to American Pneumatic Service Company, Boston, Mass. Pneumatic-despatch-tube apparatus. No. 1,044,876; Nov. 19; Gaz. vol. 184; p. 699.
Fordyce, Edmond A., assignor to American Pneumatic Service Company, Boston, Mass. Pneumatic-despatch-tube apparatus. No. 1,044,877; Nov. 19; Gaz. vol. 184; p. 699.
Fordyce, Edmond A., assignor, by mesne assignments, to American Pneumatic Service Company, Boston, Mass. Pneumatic-despatch-tube apparatus. No. 1,044,878; Nov. 19; Gaz. vol. 184; p. 700.
Fordyce, John R. (See Whipple and Fordyce.)
Fordyce, John R., Little Rock, Ark. Cotton-gin. No. 1,019,240; Mar. 5; Sp. p. 515; Gaz. vol. 176; p. 82.
Fordyce, John R., Little Rock, Ark. Cotton-gin. No. 1,028,701; June 4; Sp. p. 1352; Gaz. vol. 179; p. 211.
Fordyce, John R., Little Rock, Ark. Vacuum cotton-gin. No. 1,031,701; July 9; Gaz. vol. 180; p. 338.
Fordyce, John R., Little Rock, Ark. Cotton-gin. No. 1,031,702; July 9; Gaz. vol. 180; p. 338.
Fordyce, John R., Little Rock, Ark. Cotton-gin. No. 1,031,703; July 9; Gaz. vol. 180; p. 339.
Fordyce, John R., Little Rock, Ark. Cotton-gin. No. 1,039,111; Sept. 24; Gaz. vol. 182; p. 738.
Fore River Ship Building Company. (See Rice, Walter F., assignor.)

Alphabetical list of patentees—Continued.

Foregger, Richard von, assignor to The Roessler & Hasslacher Chemical Company, New York, N. Y. Greaseless peroxid paste. No. 1,018,240; Feb. 20; Sp. p. 4453; Gaz. vol. 175; p. 764.
Foreman, Samuel P., Quinton, Okla. Clothes-washer. No. 1,047,192; Dec. 17; Gaz. vol. 185; p. 552.
Forest, Fernand, Suresnes, France. Internal-combustion engine. No. 1,015,948; Jan. 30; Sp. p. 6280; Gaz. vol. 174; p. 1093.
Forged Steel Valve Company. (See Patterson, Franklin M., assignor.)
Forgrove Machinery Company Limited, The. (See Grover, Frederick, assignor.)
Forlanini, Enrico, Milan, Italy. Hydroaeroplane. No. 1,024,067; Apr. 23; Sp. p. 4920; Gaz. vol. 177; p. 872.
Forman, Louis O., South Orange, N. J., assignor to Gillis & Geoghegan, New York, N. Y. Hoisting apparatus. No. 1,024,885; Apr. 30; Sp. p. 6764; Gaz. vol. 177; p. 1190.
Formato, Elmerindo. (See Legnard and Formato.)
Fornander, Alfred, assignor to Dairy Oils Extracting Company, New York, N. Y. Apparatus for treating milk and other liquids. No. 1,013,594; Jan. 2; Sp. p. 1089; Gaz. vol. 174; p. 175.
Fornander, Alfred, assignor to Dairy Oils Extracting Company, New York, N. Y. Apparatus for treating milk and other liquids. No. 1,013,595; Jan. 2; Sp. p. 1091; Gaz. vol. 174; p. 175.
Forndran, John E., Rock Springs, Wyo. Ladder. No. 1,014,215; Jan. 9; Sp. p. 2487; Gaz. vol. 174; p. 418.
Fornelius, Harvey, Athenia, N. J. Shade-roller appliance. No. 1,020,817; Mar. 19; Sp. p. 3855; Gaz. vol. 176; p. 675.
Forner, Georg, Berlin, Germany, assignor to General Electric Company. Utilizing exhaust-steam in turbine plants. No. 1,029,353; June 11; Sp. p. 2789; Gaz. vol. 179; p. 470.
Forney, Samuel W., Pulaski, Va. Muffler. No. 1,027,469; May 28; Sp. p. 5237; Gaz. vol. 178; p. 919.
Fornfinne, William P., Brooklyn, N. Y. Chip-holder. No. 1,039,112; Sept. 24; Gaz. vol. 182; p. 739.
Forquer, Michael J., Greeley, Colo. Garment-display form. No. 1,013,875; Jan. 9; Sp. p. 1761; Gaz. vol. 174; p. 302.
Forrer, Joseph D., Pittsburgh, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburg, Pa. Electric motor. No. 1,013,149; Jan. 2; Sp. p. 117; Gaz. vol. 174; p. 21.
Forrester, Peter C., Tacoma, Wash. Match-machine. No. 1,041,989; Oct. 22; Gaz. vol. 183; p. 885.
Forry, Charles E., Oakland, assignor, by mesne assignments, to American Can Company, San Francisco, Cal. Double-seaming machine. No. 1,042,211; Oct. 22; Gaz. vol. 183; p. 957.
Forry, George E., Brunswick, Md. Gas-engine. No. 1,043,583; Nov. 5; Gaz. vol. 184; p. 192.
Fors, Oscar A., Chicago, Ill. Color-chart. No. 1,041,765; Oct. 22; Gaz. vol. 183; p. 807.
Forsberg, Erik A., Stockholm, Sweden, assignor to The De Laval Separator Company. Centrifugal liquid-separator. No. 1,030,991; July 2; Gaz. vol. 180; p. 49.
Forsberg, Frederick, Chicago, Ill. Foot-rest for bathtubs. No. 1,019,775; Mar. 12; Sp. p. 1667; Gaz. vol. 176; p. 290.
Forsberg, Oscar F., Yonkers, assignor to Western Electric Company, New York, N. Y. Coin-collector. No. 1,043,219; Nov. 5; Gaz. vol. 184; p. 63.
Forseck, Juan, San Luis Potosi, Mexico. Hackling-machine. No. 1,046,168; Dec. 3; Gaz. vol. 185; p. 127.
Forsell, Frans E., assignor to S. M. Einstein, Attleboro, Mass. Bracelet. No. 1,039,719; Oct. 1; Gaz. vol. 183; p. 17.
Forshay, Jesse B., and C. J. Rhoads, Pittsburg, Kans. Rail tie and fastener. No. 1,046,578; Dec. 10; Gaz. vol. 185; p. 311.
Forsheim, Joseph, New York, N. Y. Lamp. No 1,021,093; Mar. 26; Sp. p. 4428; Gaz. vol. 176; p. 820.
Forslund, Hugo W., assignor to J. W. Reedy Elevator Manufacturing Co., Chicago, Ill. Limit-switch for elevators or hoisting machinery. No. 1,042,212; Oct. 22; Gaz. vol. 183; p. 958.
Forslund, Michael A., Marinette, Wis. Animal-trap. No. 1,018,657; Feb. 27; Sp. p. 5413; Gaz. vol. 175; p. 938.
Forsman, Herman, Bakersfield, Cal. Faucet. No. 1,029,354; June 11; Sp. p. 2791; Gaz. vol. 179; p. 471.
Forst, Moritz, assignor of one-sixth to J. N. Schultz, one-sixth to C. Polk, and one-sixth to I. Rosenbluth, New York, N. Y. Non-refillable bottle. No. 1,031,704; July 9; Gaz. vol. 180; p. 339.
Forstall, James. (See Frechette, Onesime, assignor.)
Forster, Charles. (See Tainter, Willis W.)
Forster, Frank T., Schenectady, N. Y., assignor to General Electric Company. Lightning-arrester. No. 1,035,338; Aug. 13; Gaz. vol. 181; p. 347.
Forster, John, St. Helens, England. Machine for blowing glass cylinders. No. 1,038,335; Sept. 10; Gaz. vol. 182; p. 421.
Forster, Joseph, Warrington, England. Tanning. No. 1,028,563; June 4; Sp. p. 1089; Gaz. vol. 179; p. 165.
Forster, Joseph L., Vancouver, British Columbia, Canada. Pneumatic piano-player. No. 1,033,000; July 16; Gaz. vol. 180; p. 822.
Forster Manufacturing Company. (See Forster, Maurice W., assignor.)
Forster Manufacturing Company. (See Hall, Albert H., assignor.)
Forster, Maurice W., assignor to Forster Manufacturing Company, Dixfield, Me. Packing-machine for toothpicks and the like. No. 1,026,665; May 21; Sp. p. 3467; Gaz. vol. 178; p. 605.
Forster, Thomas W., Portland, Oreg. Bread-cutter. No. 1,031,111; July 2; Gaz. vol. 180; p. 93.
Forstmann, Otto, assignor to The Firm of C. Zeiss, Jena, Germany. Telescopic sight for ordnance. No. 1,030,070; June 18; Sp. p. 4370; Gaz. vol. 179; p. 753.
Forstner, Thomas, New Ulm, Minn. Corn-bin. No. 1,045,963; Dec. 3; Gaz. vol. 185; p. 58.
Forstrom, Edward E., assignor to The Bryant Electric Company, Bridgeport, Conn. Shade-holder. No. 1,018,241; Feb. 20; Sp. p. 4454; Gaz. vol. 175; p. 765.
Forsyth, Benjamin F., assignor of one-half to R. W. Copp, Paonia, Colo. Ladder. No. 1,031,110; July 2; Gaz. vol. 180; p. 93.
Forsyth Bros. Company. (See Schenck and Cooke, assignors.)
Forsyth Brothers Company. (See Forsyth, George H., assignor.)
Forsyth, George H., Chicago, Ill. Draw-bar mechanism. No. 1,025,522; May 7; Sp. p. 928; Gaz. vol. 178; p. 144.
Forsyth, George H., Chicago, Ill. Metal door and manufacturing the same. No. 1,046,455; Dec. 10; Gaz. vol. 185; p. 266.
Forsyth, George H., assignor to Forsyth Brothers Company, Chicago, Ill. Metal window construction. No. 1,032,057; July 9; Gaz. vol. 180; p. 459.
Forsyth, James B., assignor to Stone & Forsyth, Boston, Mass. Holder for individual drinking-cups. No. 1,025,909; May 7; Sp. p. 1793; Gaz. vol. 178; p. 276.
Forsyth, Louis N., New Iberia, La. Match-box. No. 1,028,106; June 4; Sp. p. 27; Gaz. vol. 179; p. 8.
Forsyth, Robert H., Curranville, Kans. Concrete fence-post. No. 1,021,140; Mar. 26; Sp. p. 4526; Gaz. vol. 176; p. 834.
Forsyth, William D., Youngstown, Ohio. Manufacturing brake-shoe keys. No. 1,016,068; Jan. 30; Sp. p. 6555; Gaz. vol. 174; p. 1138.
Forsyth, William D., Youngstown, Ohio. Sheet-metal window-frame. No. 1,024,001; Apr. 23; Sp. p. 4782; Gaz. vol. 177; p. 849.
Forsyth, William D., Youngstown, Ohio. Fireproof floor system. No. 1,038,551; Sept. 17; Gaz. vol. 182; p. 531.
Forsyth, William D., Youngstown, Ohio, assignor of one-half to A. M. Neeper, Pittsburgh, Pa. Making expanded metal. No. 1,015,264; Jan. 16; Sp. p. 4788; Gaz. vol. 174; p. 805.
Forsyth, William D., Youngstown, Ohio, assignor of one-half to A. M. Neeper, Pittsburgh, Pa. Expanded metal. No. 1,017,255; Feb. 13; Sp. p. 2286; Gaz. vol. 175; p. 389.
Forsyth, William D., Youngstown, Ohio, assignor of one-half to A. M. Neeper, Pittsburgh, Pa. Expanded metal. No. 1,019,034; Mar. 5; Sp. p. 44; Gaz. vol. 176; p. 10.
Forsyth, William H., Chicago, Ill., assignor to The Curtain Supply Company, Newark, N. J. Reinforced curtain-roller. No. 1,037,886; Sept. 10; Gaz. vol. 182; p. 270.
Forsyth, William R., Swampscott, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Drinking-block support. No. 1,030,396; June 25; Sp. p. 5092; Gaz. vol. 179; p. 908.
Forter Miller Engineering Company. (See Merlam, Frederic, assignor.)
Fortesque, Charles, Richmond, Victoria, Australia. Adjustable and safety hat-pin. No. 1,036,088; Aug. 20; Gaz. vol. 181; p. 639.
Fortescue, Charles L., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Transformer. No. 1,013,150; Jan. 2; Sp. p. 118; Gaz. vol. 174; p. 21.
Forth, Charles, Boston, Mass. Mixer or beater. No. 1,014,382; Jan. 9; Sp. p. 2885; Gaz. vol. 174; p. 477.
Forth, Charles, Boston, Mass. Pipe-coupling. No. 1,035,564; Aug. 13; Gaz. vol. 181; p. 425.
Forth, Charles, Boston, Mass. Pipe-coupling. No. 1,035,565; Aug. 13; Gaz. vol. 181; p. 425.
Forth, Charles, Boston, Mass. Clamping device for gaskets and the like. No. 1,035,566; Aug. 13; Gaz. vol. 181; p. 425.
Fortier, George, assignor of one-half to J. Geoffroy, Warren, R. I. Shedding mechanism. No. 1,024,846; Apr. 30; Sp. p. 6691; Gaz. vol. 177; p. 1177.
Fortier, George W., assignor of one-half to E. B. Berwick, Grand Falls, Newfoundland. Automatic sulfur-burner. No. 1,044,369; Nov. 12; Gaz. vol. 184; p. 493.
Fortin, Benjamin P., Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 1,023,788; Apr. 16; Sp. p. 4255; Gaz. vol. 177; p. 748.
Fortmann, Gustave, assignor of one-half to G. W. Cook, Philadelphia, Pa. Signaling device. No. 1,033,572; July 23; Gaz. vol. 180; p. 1054.
Fortuna-Werke Albert Hirth. (See Hirth, Carl A., assignor.)

Alphabetical list of patentees—Continued.

Fortune, John R., Detroit, Mich., and F. B. Bigelow, Chicago, Ill. Arch-plate for furnaces. No. 1,019,035; Mar. 5; Sp. p. 47; Gaz. vol. 176; p. 11.
Fortunesco, Nicolas J., Paris, France. Non-refillable bottle. No. 1,027,413; May 28; Sp. p. 5134; Gaz. vol. 178; p. 900.
Forty, William H., Kings Langley, assignor to C. E. F. M. Mainwaring, Sloane Gardens, London, England. Loom for weaving coir mats and the like. No. 1,019,625; Mar. 5; Sp. p. 1371; Gaz. vol. 176; p. 209.
Forward, Mary A., Elkhart, Ind. Heat-deflecting and soot-catching attachment for hot-air registers. No. 1,021,980; Apr. 2; Sp. p. 492; Gaz. vol. 177; p. 78.
Forward, Walter L., Berkeley, assignor to Byron Jackson Iron Works, Inc., San Francisco, Cal. Self-cleaning bearing for submerged shafts. No. 1,028,564; June 4; Sp. p. 1090; Gaz. vol. 179; p. 166.
Forwood, George F. (See Mackie and Forwood.)
Fosdick, Eugene H. (See Duncan and Eisenberg, assignors.)
Fosdick, George R., Winchester, N. H. Box-gluing apparatus. No. 1,030,254; June 18; Sp. p. 4743; Gaz. vol. 179; p. 817.
Fosgate, Daniel O., Chicago, Ill. Localizing-stethoscope. No. 1,015,163; Jan. 16; Sp. p. 4574; Gaz. vol. 174; p. 771.
Foss, Benjamin F., Portland, Me. Safety door-bolt. No. 1,038,111; Sept. 10; Gaz. vol. 182; p. 345.
Foss, Benjamin F., Portland, Me. Door-holder. No. 1,048,060; Dec. 24; Gaz. vol. 185; p. 883.
Foss, Benjamin S., assignor to B. F. Sturtevant Company, Boston, Mass. Centrifugal fan-wheel. No. 1,038,110; Sept. 10; Gaz. vol. 182; p. 345.
Foss, Charles A., Chicago, Ill. Candle-holder. No. 1,039,921; Oct. 1; Gaz. vol. 183; p. 83.
Foss, John J., Cleveland, Ohio. Clothes-line hanger. No. 1,032,395; July 16; Gaz. vol. 180; p. 619.
Foss, Oscar F. (See Sperberg, Edward H., assignor.)
Foss, Walter D., Wooster, Ohio. Brush. No. 1,038,552; Sept. 17; Gaz. vol. 182; p. 531.
Foss, Walter O., Newington, assignor to C. E. Bunnell and R. Bradley, Branford, Conn. Driving mechanism. No. 1,016,987; Feb. 13; Sp. p. 1690; Gaz. vol. 175; p. 295.
Foss, Walter O., assignor to C. E. Bunnell and R. Bradley, Branford, Conn. Driving mechanism. No. 1,042,101; Oct. 22; Gaz. vol. 183; p. 922.
Fosston Manufacturing Company. (See Helgerson, Thomas O., assignor.)
Foster, Alvah J., Syracuse, N. Y. Mail-box. No. 1,047,401; Dec. 17; Gaz. vol. 185; p. 627.
Foster, Bertram G., Washington, D. C. Curtain-shade-adjusting means. No. 1,025,565; May 7; Sp. p. 1035; Gaz. vol. 178; p. 160.
Foster Brothers Manufacturing Co. (See Foster, William S., assignor.)
Foster Brothers Manufacturing Company. (See Foster, William B., assignor.)
Foster, Charles H., St. Louis, Mo. Expansion-tank support. No. 1,022,409; Apr. 9; Sp. p. 1369; Gaz. vol. 177; p. 251.
Foster, Clarence W., Donora, Pa. Grate. No. 1,028,012; May 28; Sp. p. 6408; Gaz. vol. 178; p. 1099.
Foster, Claud H., Cleveland, Ohio. Shock-absorbing device. No. 1,017,660; Feb. 20; Sp. p. 3115; Gaz. vol. 175; p. 562.
Foster, Claud H., Cleveland, Ohio. Cleaning device. No. 1,017,661; Feb. 20; Sp. p. 3117; Gaz. vol. 175; p. 563.
Foster, Claud H., Cleveland, Ohio. Signaling mechanism. No. 1,031,993; July 9; Gaz. vol. 180; p. 438.
Foster, Edward, Auckland, New Zealand. Composition for attaching insulation to steam-boilers and other appliances. No. 1,019,776; Mar. 12; Sp. p. 1668; Gaz. vol. 176; p. 291.
Foster Engineering Company Limited. (See Rogers, Ernest E., assignor.)
Foster, Ernest H., New York, N. Y. Steam-superheating apparatus. No. 1,047,027; Dec. 10; Gaz. vol. 185; p. 463.
Foster, Everette, Wesson, Miss. Wrench. No. 1,027,830; May 28; Sp. p. 5989; Gaz. vol. 178; p. 1039.
Foster, Frederick E., Milwaukee, Wis. Creasing-iron. No. 1,014,698; Jan. 16; Sp. p. 3582; Gaz. vol. 174; p. 613.
Foster, Frederick H., Racine, Wis. Bottle-stopper. No. 1,048,061; Dec. 24; Gaz. vol. 185; p. 883.
Foster, Freling C., assignor of one-third to F. M. Lillie and one-third to W. S. Nordburg, Chicago, Ill. Fumigator. No. 1,034,777; Aug. 6; Gaz. vol. 181; p. 126.
Foster, George A. (See Smith, Bessie H., assignor.)
Foster, George E. (See Drake, Herbert L., assignor.)
Foster, George H. (See Foster, William L. and G. H.)
Foster, George M., Manchester, N. H. Loom-temple. No. 1,013,543; Jan. 2; Sp. p. 988; Gaz. vol. 174; p. 158.
Foster, George S., Pueblo, Colo. Shock-absorber for vehicles. No. 1,043,820; Nov. 12; Gaz. vol. 184; p. 303.
Foster, Harry W. (See Rossmeissl, Frank, assignor.)
Foster, Harry W., and L. C. Hill, Newark, N. J.; said Hill assignor to said Foster. Burner. No. 1,047,028; Dec. 10; Gaz. vol. 185; p. 464.
Foster, Henry D. (See Whittle and Foster.)
Foster, James F., assignor to The Republic Metalware Company, Buffalo, N. Y. Cover-knob. No. 1,026,307; May 14; Sp. p. 2684; Gaz. vol. 178; p. 449.
Foster, James H., assignor to The Hydraulic Pressed Steel Company, Cleveland, Ohio. Wall-paper remover. No. 1,021,184; Mar. 26; Sp. p. 4627; Gaz. vol. 176; p. 848.
Foster, John F., Kansas City, Kans. Ball-bearing. No. 1,013,151; Jan. 2; Sp. p. 119; Gaz. vol. 174; p. 22.
Foster, John M., New York, N. Y. Indicator for stop-valves. No. 1,029,600; June 18; Sp. p. 3317; Gaz. vol. 179; p. 590.
Foster, Julian A., Salem, Wis. Car-replacer. No. 1,044,767; Nov. 19; Gaz. vol. 184; p. 662.
Foster Machine Company. (See McKean, John O., assignor.)
Foster, Merriam and Company. (See Palmer, Harry A., assignor.)
Foster, Michael H. (See Pier and Foster.)
Foster, Oliver M., Elkhart, Ind., assignor, by mesne assignments, of one-fifth to S. K. Dickerson, one-fifth to D. R. MacBain, one-fifth to D. C. Moore, Cleveland, Ohio, and one-fifth to C. E. Schaff, Chicago, Ill. Gas or smoke washer. No. 1,026,666; May 21; Sp. p. 3469; Gaz. vol. 178; p. 605.
Foster, Pell W., assignor to Power Specialty Company, New York, N. Y. Cooling device. No. 1,048,516; Dec. 31; Gaz. vol. 185; p. 1076.
Foster, Rolon W., Needham, Mass., assignor to Essex Manufacturing Company, Kittery, Me., and Lynn, Mass. Foot-cushion. No. 1,013,992; Jan. 9; Sp. p. 2020; Gaz. vol. 174; p. 341.
Foster, Roy R., Colton, Cal. Electric water-heater. No. 1,036,990; Aug. 27; Gaz. vol. 181; p. 980.
Foster, Royal L., Fort Riley, Kans. Tire-inflation mechanism. No. 1,026,667; May 21; Sp. p. 3471; Gaz. vol. 178; p. 606.
Foster, Samuel A. (See Foster, Samuel G. and S. A.)
Foster, Samuel G., Westfield, and S. A. Foster, Rahway, N. J. Adjustable window-screen. No. 1,022,312; Apr. 2; Sp. p. 1161; Gaz. vol. 177; p. 187.
Foster, Samuel P., East Chattanooga, Tenn. Baling-press. No. 1,019,626; Mar. 5; Sp. p. 1373; Gaz. vol. 176; p. 209.
Foster, Theodore D., Cambridge, Mass. Magazine for disk records. No. 1,042,542; Oct. 29; Gaz. vol. 183; p. 1099.
Foster, Theodore W., Providence, R. I. Watch-fob. No. 1,032,328; July 9; Gaz. vol. 180; p. 552.
Foster, William B., Utica, N. Y., assignor to Foster Brothers Manufacturing Company. Corner-fastening for bedsteads. No. 1,021,185; Mar. 26; Sp. p. 4629; Gaz. vol. 176; p. 849.
Foster, William F. C., Wawanesa, Manitoba, Canada. Printing-press. No. 1,029,434; June 11; Sp. p. 2978; Gaz. vol. 179; p. 499.
Foster, William J., New York, N. Y. Starting device for explosive-engines. No. 1,034,778; Aug. 6; Gaz. vol. 181; p. 127.
Foster, William J., Schenectady, N. Y., assignor to General Electric Company. Dynamo-electric machine. No. 1,022,023; Apr. 2; Sp. p. 580; Gaz. vol. 177; p. 91.
Foster, William L. and G. H., Kansas City, Mo. Resilient mounting for wheels. No. 1,037,229; Sept. 3; Gaz. vol. 182; p. 18.
Foster, William S., Utica, N. Y., assignor to Foster Brothers Manufacturing Co. Detachable fastener for upholstery. No. 1,020,407; Mar. 19; Sp. p. 2962; Gaz. vol. 176; p. 538.
Fostoria Glass Company. (See Dalzell and Scroggins, assignors.)
Fotheringham, Carleton K., *et al.* (See Gerhardt, John, assignor.)
Fotheringham, Carleton K., and A. R. Laing, Montreal, Quebec, Canada. Advertising device. No. 1,040,534; Oct. 8; Gaz. vol. 183; p. 322.
Föttinger, Hermann, Zoppot, near Danzig, Germany. Power-transmission mechanism. No. 1,024.982; Apr. 30; Sp. p. 6956; Gaz. vol. 177; p. 1223.
Foulder, James R., Schenectady, N. Y. Connecting-rod for engines. No. 1,042,543; Oct. 29; Gaz. vol. 183; p. 1099.
Foundation Company, The. (See Chambers, Ralph H., assignor.)
Fountain, George W., and S. H. Hook, Cameron, Mo. Device for fastening shades to rollers. No. 1,040,922; Oct. 8; Gaz. vol. 183; p. 454.
Fountain, John, Jr., Elizabeth, N. J., and B. Jones, Jr., New York, N. Y.; said Jones assignor to said Fountain. Floor-box. No. 1,023,246; Apr. 16; Sp. p. 3215; Gaz. vol. 177; p. 575.
Fountain, John C., London, Ontario, Canada. Pump for explosive gas. No. 1,044,511; Nov. 19; Gaz. vol. 184; p. 570.
Fouquier, Paul J., Paris, France. Pen and the like. No. 1,038,738; Sept. 17; Gaz. vol. 182; p. 597.
Four In One Manufacturing Co. (See Handy, Burt A., assignor.)
Four Wheel Drive Auto Company. (See Zachow, Otto, assignor.)

Alphabetical list of patentees—Continued.

Fournie, William A., Belleville, Ill. End and corner post adjusting support. No. 1,018,894; Feb. 27; Sp. p. 5904; Gaz. vol. 175; p. 1018.
Fournier, Emeric, San Diego, Cal. Clamp-hook. No. 1,024,002; Apr. 23; Sp. p. 4784; Gaz. vol. 177; p. 849.
Fournier, Louis E., Boston, Mass. Door-hanger. No. 1,039,720; Oct. 1; Gaz. vol. 183; p. 17.
Foust, Orson W., Cogswell, N. D. Harvester attachment for engines. No. 1,023,011; Apr. 9; Sp. p. 2677; Gaz. vol. 177; p. 456.
Fouts, James A., Ottawa, Kans. Mail-box. No. 1,017,862; Feb. 20; Sp. p. 3605; Gaz. vol. 175; p. 632.
Fouts, James H., Moline, Kans. Game apparatus. No. 1,044,039; Nov. 12; Gaz. vol. 184; p. 380.
Foutz, Jeremiah N., Anaheim, Cal. Insulator. No. 1,042,902; Oct. 29; Gaz. vol. 183; p. 1225.
Fowden, William T., Chester, Pa. Valve. No. 1,015,164; Jan. 16; Sp. p. 4575; Gaz. vol. 174; p. 771.
Fowler, Alfred B., Boston, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Grinding-machine. No. 1,019,887; Mar. 12; Sp. p. 1880; Gaz. vol. 176; p. 329.
Fowler, Alfred B., Central Falls, R. I., assignor to United Shoe Machinery Company, Paterson, N. J. Sewing-machine. No. 1,029,283; June 11; Sp. p. 2624; Gaz. vol. 179; p. 445.
Fowler, Alfred B., Duxbury, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Shoe-sewing machine. No. 1,029,920; June 18; Sp. p. 4054; Gaz. vol. 179; p. 704.
Fowler, Benjamin F., Minneapolis, assignor of one-half to J. Aspdem, Excelsior, Minn. Lubricating-hub. No. 1,043,684; Nov. 5; Gaz. vol. 184; p. 226.
Fowler, Frank G., Altoona, Pa. Spring device for car-vestibule diaphragms. No. 1,019,777; Mar. 12; Sp. p. 1668; Gaz. vol. 176; p. 291.
Fowler, Frank L., Philadelphia, Pa. Electric lamp. No. 1,049,070; Dec. 31; Gaz. vol. 185; p. 1268.
Fowler, James T., assignor of one-half to C. Mardis, Wetumpka, Ala. Adjustable flushing-cuspidor. No. 1,030,722; June 25; Sp. p. 6006; Gaz. vol. 179; p. 1024.
Fowler, Jonathan O., Jr. (See Dilg and Fowler.)
Fowler, Judson O. (See Greenig and Fowler.)
Fowler, Lewis D., Oklahoma, Okla. Poultry-coop. No. 1,039,113; Sept. 24; Gaz. vol. 182; p. 739.
Fowler, Lewis G., and H. V. Thomas, Blairstown, Mo. Metal door. No. 1,042,903; Oct. 29; Gaz. vol. 183; p. 1225.
Fowler, Mack J., Roanoke, Va. Track-sander. No. 1,029,284; June 11; Sp. p. 2627; Gaz. vol. 179; p. 445.
Fowler, William E., Jr., Hammond, Ind. Running-board for freight-cars. No. 1,019,627; Mar. 5; Sp. p. 1376; Gaz. vol. 176; p. 210.
Fowler, William O., Wenatchee, Wash. Fixture-plate. No. 1,035,782; Aug. 13; Gaz. vol. 181; p. 496.
Fowler, William R., Baltimore, Md. Vacuum-cleaner. No. 1,027,117; May 21; Sp. p. 4532; Gaz. vol. 178; p. 762.
Fox, A. R., *et al.* (See Tatum, Franklin M., assignor.)
Fox, Aaron S., Syracuse, N. Y. Nut-lock. No. 1,036,991; Aug. 27; Gaz. vol. 181; p. 981.
Fox, Ansley H. (See Kremer and Fox.)
Fox, Edgar P., Greeley, Colo. Mold for tanks. No. 1,023,465; Apr. 16; Sp. p. 3644; Gaz. vol. 177; p. 647.
Fox, Frank A., Brooklyn, N. Y. Link for cross-chains of antiskid devices. No. 1,018,179; Feb. 20; Sp. p. 4333; Gaz. vol. 175; p. 744.
Fox, Guy R., Evanston, Ill. Plastering-machine. No. 1,017,256; Feb. 13; Sp. p. 2288; Gaz. vol. 175; p. 389.
Fox, Ivan, Media, Pa. Bitless bridle. No. 1,015,165; Jan. 16; Sp. p. 4578; Gaz. vol. 174; p. 772.
Fox, Jacob G., and H. W. Simms, Bay City, Mich. Shingle. No. 1,048,517; Dec. 31; Gaz. vol. 185; p. 1076.
Fox, James S., Jackson, Mich. Railway-tie plate. No. 1,030,723; June 25; Sp. p. 6007; Gaz. vol. 179; p. 1024.
Fox, Joe, assignor of one-half to S. Erdreich, New York, N. Y. Skirt. No. 1,031,112; July 2; Gaz. vol. 180; p. 94.
Fox, John H., Berea, Ohio. Educational device. No. 1,041,059; Oct. 15; Gaz. vol. 183; p. 534.
Fox, John L., A. R. Horn, and J. J. Callaghan, Gary, Ind. Track-raising machine. No. 1,047,193; Dec. 17; Gaz. vol. 185; p. 552.
Fox, John P., Tampa, Fla., and H. L. Hatcher, Savannah, Ga.; said Hatcher assignor to said Fox. Method of and apparatus for applying protecting-covering to piles. No. 1,013,758; Jan. 2; Sp. p. 1476; Gaz. vol. 174; p. 233.
Fox, Joseph P., assignor of one-half to O. Reimann, Chemnitz, Germany. Dirigible headlight. No. 1,038,739; Sept. 17; Gaz. vol. 182; p. 597.
Fox, Lee O. and O. A., Lewiston, Idaho. Composition butter. No. 1,014,457; Jan. 9; Sp. p. 3028; Gaz. vol. 174; p. 502.
Fox, Louis, Chandlersville, Ohio. Punch. No. 1,047,029; Dec. 10; Gaz. vol. 185; p. 464.
Fox, Lyman W., Mount Pleasant, Pa. Lock. No. 1,048,952; Dec. 31; Gaz. vol. 185; p. 1227.
Fox, Oscar A. (See Fox, Lee O. and O. A.)
Fox, Otto, assignor to The Bryant Heater and Manufacturing Company, Cleveland, Ohio. Water-heater. No. 1,025,389; May 7; Sp. p. 632; Gaz. vol. 178; p. 98.
Fox, Porter C., assignor to Fox Spring Tire Company, Incorporated, Spokane, Wash. Spring-tire for vehicles. No. 1,049,071; Dec. 31; Gaz. vol. 185; p. 1268.
Fox, Simon J., assignor of one-half to D. E. Lain, Bellingham, Wash. Gill-net. No. 1,016,881; Feb. 6; Sp. p. 1424; Gaz. vol. 175; p. 221.
Fox Spring Tire Company. (See Fox, Porter C., assignor.)
Fox, Thomas A., Newark, N. J., assignor to The Steffens-Amberg Co. Draft-eye for hames. No. 1,025,970; May 14; Sp. p. 1921; Gaz. vol. 178; p. 331.
Fox, Thomas J., Memphis, assignor to J. A. Billions, Shelby county, Tenn. Liquid cushioning device. No. 1,035,339; Aug. 13; Gaz. vol. 181; p. 347.
Fox, Walter E., Chicago, Ill. Piano-violin. No. 1,036,600; Aug. 27; Gaz. vol. 181; p. 851.
Fox, Walter H., Lathrop, Mo. Fender-adjuster for cultivators. No. 1,037,609; Sept. 3; Gaz. vol. 182; p. 144.
Fox, William H., Minneapolis, Minn. Base-ball glove or mitt. No. 1,017,964; Feb. 20; Sp. p. 3858; Gaz. vol. 175; p. 668.
Fox, William H., Minneapolis, Minn. Water-heater. No. 1,027,831; May 28; Sp. p. 5991; Gaz. vol. 178; p. 1039.
Fox, William R., Grand Rapids, Mich. Ribbon-spool device for type-writing machines. No. 1,014,962; Jan. 16; Sp. p. 4182; Gaz. vol. 174; p. 704.
Fox, William R., Grand Rapids, Mich. Ribbon mechanism for type-writing machines. No. 1,015,384; Jan. 23; Sp. p. 5065; Gaz. vol. 174; p. 874.
Foye, Cyrus D., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Tack-feeding mechanism. No. 1,032,279; July 9; Gaz. vol. 180; p. 536.
Foye, Cyrus D., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Mechanism for inserting fastenings. No. 1,032,329; July 9; Gaz. vol. 180; p. 552.
Foye, Don C. (See Foye, George W., assignor.)
Foye, George W., Fredericksburg, Va., assignor to D. C. Foye, Philadelphia, Pa. Electric magneto-machine. No. 1,028,202; June 4; Sp. p. 327; Gaz. vol. 179; p. 43.
Foyer Brothers & Company, The. (See Foyer, Melvin J., assignor.)
Foyer, Melvin J., assignor to The Foyer Brothers & Company, Toledo, Ohio. Wheel. No. 1,014,055; Jan. 9; Sp. p. 2166; Gaz. vol. 174; p. 362.
Foyer, Melvin J., and O. Kurz, Toledo, Ohio. Go-cart. No. 1,021,589; Mar. 26; Sp. p. 5508; Gaz. vol. 176; p. 989.
Fraaz, Joseph M. (See Sholes and Fraaz.)
Frady, Homer. (See Fanning, Sam H., assignor.)
Fraizer, Abner, Union City, Ind. Halter. No. 1,015,166; Jan. 16; Sp. p. 4580; Gaz. vol. 174; p. 772.
Frakes, John W., Chicago, Ill. Theatrical apparatus. No. 1,040,303; Oct. 8; Gaz. vol. 183; p. 242.
Frambach, Mathew J., and A. R. Corrington, assignors of one-half to W. F. Schildt, Hartley, Iowa. Sanitary closet. No. 1,041,263; Oct. 15; Gaz. vol. 183; p. 604.
Frame, Robert E., Chicago, Ill. Car-roof. No. 1,037,230; Sept. 3; Gaz. vol. 182; p. 18.
Frame, Robert E., Chicago, Ill., assignor to American Car and Foundry Company, St. Louis, Mo. End underframe construction for cars. No. 1,014,867; Jan. 16; Sp. p. 3973; Gaz. vol. 174; p. 672.
Frame, Robert E., Chicago, Ill., assignor to American Car and Foundry Company, St. Louis, Mo. Car-underframe. No. 1,029,115; June 11; Sp. p. 2272; Gaz. vol. 179; p. 388.
Frame, Robert E., assignor to American Car and Foundry Company, St. Louis, Mo. Journal-bearing wedge. No. 1,021,141; Mar. 26; Sp. p. 4527; Gaz. vol. 176; p. 834.
Frame, Robert E., assignor to American Car & Foundry Company, St. Louis, Mo. Tandem-spring draft-rigging. No. 1,026,741; May 21; Sp. p. 3630; Gaz. vol. 178; p. 631.
Frame, Robert E., Chicago, Ill., and F. H. Gibbs, New York, N. Y., assignors to American Car & Foundry Company, St. Louis, Mo. Car-underframe. No. 1,045,387; Nov. 26; Gaz. vol. 184; p. 903.
Frame, William J., assignor to Hydro-Vacuum, Limited, Glasgow, Scotland. Hydraulic apparatus for exhausting or extracting air, gas, or vapor. No. 1,019,241; Mar. 5; Sp. p. 518; Gaz. vol. 176; p. 82.
Frampton, Reynolds C., assignor to Pittsburg Water Heater Company, Pittsburgh, Pa. Burner. No. 1,027,832; May 28; Sp. p. 5995; Gaz. vol. 178; p. 1040.
France, Adam W., Philadelphia, Pa. Hose-clamp. No. 1,032,664; July 16; Gaz. vol. 180; p. 711.
France, Frank, Chicago, Ill. Well-drill. No. 1,022,472; Apr. 9; Sp. p. 1520; Gaz. vol. 177; p. 273.
France, Ray M. (See Rowley and France.)
Franceschini, Juan J., New York, N. Y. Registering device for printing-plates and the like. No. 1,034,606; Aug. 6; Gaz. vol. 181; p. 67.
Francfort, Alfred H., Jersey City, N. J. Hydraulic ram. No. 1,015,949; Jan. 30; Sp. p. 6282; Gaz. vol. 174; p. 1093.
Francis, Charles E., Cincinnati, Ohio. Veneer-press for manufacturers of woodworking material. No. 1,016,258; Feb. 6; Sp. p. 32; Gaz. vol. 175; p. 7.

Alphabetical list of patentees—Continued.

Francis, Charles W., Conway, Ark. Lock for lamp-chimneys. No. 1,046,763; Dec. 10; Gaz. vol. 185; p. 378.
Francis, Frank S., *et al.* (See Anglus, Frank C., assignor.)
Francis, George B., and B. H. Smith, assignors to Westinghouse, Church, Kerr & Company, New York, N. Y. Motor-truck. No. 1,042,335; Oct. 22; Gaz. vol. 183; p. 998.
Francis, George B., and B. H. Smith, assignors to Westinghouse, Church, Kerr & Company, New York, N. Y. Roller-platform. No. 1,042,336; Oct. 22; Gaz. vol. 183; p. 999.
Francis, George E., Schenectady, N. Y. Advertising device. No. 1,047,779; Dec. 17; Gaz. vol. 185; p. 761.
Francis, John M., assignor to Parke, Davis & Company, Detroit, Mich. Package. No. 1,039,114; Sept. 24; Gaz. vol. 182; p. 739.
Francis, Julius G., New Iberia, La. Horse-releaser. No. 1,030,071; June 18; Sp. p. 4372; Gaz. vol. 179; p. 754.
Francis Keil & Son. (See Zimmermann, Frank, assignor.)
Francis, Mary J., and A. Moffett, Galeton, Pa. Metallic railway-tie. No. 1,036,210; Aug. 20; Gaz. vol. 181; p. 684.
Francis, Oscar S., and W. P. Ellis, Ridgeway, Mo. Ironing-table. No. 1,043,516; Nov. 5; Gaz. vol. 184; p. 169.
Francis, Talton T., *et al.* (See Noble, Warren, assignor.)
Francis, Walter, St. Louis, Mo. Violin. No. 1,048,449; Dec. 24; Gaz. vol. 185; p. 1014.
Francis, William H., Cherryvale, Kans. Brick-handling method and stack. No. 1,030,397; June 25; Sp. p. 5094; Gaz. vol. 179; p. 908.
Francis, William P., Atlanta, Ga. Composite building-beam. No. 1,047,030; Dec. 10; Gaz. vol. 185; p. 464.
Francis, William T., Danville, Va. Clothes-press. No. 1,015,167; Jan. 16; Sp. p. 4581; Gaz. vol. 174; p. 772.
Francisco, Arthur A., *et al.* (See Francisco, Charles E., assignor.)
Francisco, Charles E., assignor of five-sixths to J. F., W. E., J. W., A. A., and C. M. Francisco, Woodston, Kans. Guard device for railway-crossings. No. 1,042,102; Oct. 22; Gaz. vol. 183; p. 922.
Francisco, Charles F., San Diego, Cal. Wall or dam construction. No. 1,024,068; Apr. 23; Sp. p. 4924; Gaz. vol. 177; p. 872.
Francisco, Charles F., San Diego, Cal. Pile splicing and driving device. No. 1,024,069; Apr. 23; Sp. p. 4925; Gaz. vol. 177; p. 873.
Francisco, Clara M., *et al.* (See Francisco, Charles E., assignor.)
Francisco, George T., assignor of one-half to C. M. Hill, Highland, Cal. Meat-clamping device. No. 1,038,336; Sept. 10; Gaz. vol. 182; p. 421.
Francisco, John, *et al.* (See Francisco, Charles E., assignor.)
Francisco, John W., *et al.* (See Francisco, Charles E., assignor.)
Francisco, William E., *et al.* (See Francisco, Charles E., assignor.)
Franck, Emil J., Philadelphia, Pa. Fashioning knitting-machine. No. 1,046,764; Dec. 10; Gaz. vol. 185; p. 378.
Franck, René, Schlettstadt, Germany. Endless wire fabric. No. 1,017,662; Feb. 20; Sp. p. 3119; Gaz. vol. 175; p. 563.
Francke, William J., New Brunswick, N. J. Flexible coupling. No 1,029,355; June 11; Sp. p. 2793; Gaz. vol. 179; p. 471.
Franco, Francesco. (See Lumello, Carlo, assignor.)
Franey, John, *et al.* (See Thebaud, John E., assignor.)
Frank Adam Electric Company. (See Adam, Fredrick B., assignor.)
Frank, Adolph, Charlottenburg, Germany. Meter. No. 1,024,886; Apr. 30; Sp. p. 6766; Gaz. vol. 177; p. 1190.
Frank, Beecher, and A. O. Lundberg, Chicago, Ill. Anchor device for bolts. No. 1,034,607; Aug. 6; Gaz. vol. 181; p. 68.
Frank, Carl. (See Holland, Heinrich, assignor.)
Frank, Charles. (See Johnson and Frank.)
Frank, Constantin H., and C. Herman, New York, N. Y. Hat-pin guard and retainer. No. 1,041,766; Oct. 22; Gaz. vol. 183; p. 807.
Frank, Crosby F., New York, N. Y. Electric signaling system. No. 1,046,765; Dec. 10; Gaz. vol. 185; p. 379.
Frank, Daniel L., Burden, and S. B. Peter, Pittsburg, Kans. Kafir-corn harvester. No. 1,047,031; Dec. 10; Gaz. vol. 185; p. 465.
Frank, Daniel W. L., Sr., Chicago, Ill. Combined level, plumb, and grade-finder. No. 1,036,601; Aug. 27; Gaz. vol. 181; p. 851.
Frank, Edward, San Francisco, Cal. Orange-knife. No. 1,041,767; Oct. 22; Gaz. vol. 183; p. 808.
Frank, Edward H., assignor of one-half to L. C. Koelling, Centralia, and G. Kunz, Clinton, Ill. Metallic railway-tie. No. 1,017,965; Feb. 20; Sp. p. 3859; Gaz. vol. 175; p. 668.
Frank, Edward M., Chicago, Ill. Game apparatus. No. 1,024,194; Apr. 23; Sp. p. 5228; Gaz. vol. 177; p. 916.
Frank, Felix, Cleveland, Ohio. Air-cooling apparatus. No. 1,020,034; Mar. 12; Sp. p. 2191; Gaz. vol. 176; p. 377.
Frank, Ferdinand, San Francisco, Cal. Curtain and like display device. No. 1,028,565; June 4; Sp. p. 1091; Gaz. vol. 179; p. 166.
Frank, John P. (See Lockyer and Frank.)
Frank, Joseph. (See Benz, Frederick, Jr., assignor.)
Frank, Joseph, New York, N. Y., and F. Benz, Jr., Haledon, N. J.; said Benz assignor to said Frank. Batten structure for narrow-ware looms. No. 1,032,396; July 16; Gaz. vol. 180; p. 619.
Frank L. Rouse Company. (See Rouse, Frank L., assignor.)
Frank & Lambert. (See Loomis, Harry T., assignor.)
Frank, Leroy R., Bangor, Me. Garment-hanger. No. 1,040,181; Oct. 1; Gaz. vol. 183; p. 170.
Frank, Louis, Wilkes-Barre, Pa. Counter display and storage case. No. 1,024,323; Apr. 23; Sp. p. 5481; Gaz. vol. 177; p. 961.
Frank, Michael E., assignor of one-half to L. Herman, Sheboygan, Wis. Safety-gate for bridges and railway-crossings. No. 1,041,454; Oct. 15; Gaz. vol. 183; p. 667.
Frank Mossberg Company. (See Mossberg, Frank, assignor.)
Frank, Myer. (See Shanks, Edward B., assignor.)
Frank, Otto H., New York, N. Y. Stand for sad-irons. No. 1,030,510; June 25; Sp. p. 5371; Gaz. vol. 179; p. 948.
Frank Ridlon Company. (See Shields, Robert, assignor.)
Frank S. Betz Company. (See Hays and Rosenbaum, assignors.)
Frank, Samuel D., assignor of one-fourth to I. N. Flounders, Media, Pa. Railway-switch-locking mechanism. No. 1,045,540; Nov. 26; Gaz. vol. 184; p. 960.
Frank, Vincent, Chicago, Ill. Blacking-box opener and holder. No. 1,018,106; Feb. 20; Sp. p. 4173; Gaz. vol. 175; p. 718.
Frank, Vincent, assignor to Shaftless Speedometer Company, Chicago, Ill. Speedometer and mileage-indicator. No. 1,049,220; Dec. 31; Gaz. vol. 185; p. 1318.
Frank, William C., Johnstown, Pa. Metal railway-tie. No. 1,031,994; July 9; Gaz. vol. 180; p. 438.
Franke, August, Cuero, Tex. Extension burial-casket. No. 1,026,434; May 14; Sp. p. 2968; Gaz. vol. 178; p. 491.
Franke, Johannes, Dresden, Germany. Telescopic stand. No. 1,048,143; Dec. 24; Gaz. vol. 185; p. 912.
Franke, Le Roy A., Fostoria, Ohio. Lawn-mower. No. 1,047,194; Dec. 17; Gaz. vol. 185; p. 552.
Franke, Theodor, Schöneberg, Berlin, Germany. Machine for pressing liquids from materials containing the same. No. 1,031,543; July 2; Gaz. vol. 180; p. 241.
Franke, Theodor, Schöneberg, Berlin, Germany. Preparing fuel from peat. No. 1,031,638; July 2; Gaz. vol. 180; p. 274.
Fränkel, Eugen, Beuthen, Upper Silesia, Germany. Flushing apparatus. No. 1,041,612; Oct. 15; Gaz. vol. 183; p. 717.
Frankenfield, Budd, Norwood, Ohio, assignor to Allis-Chalmers Company and The Bullock Electric Manufacturing Company. System of motor control. No. 1,017,257; Feb. 13; Sp. p. 2292; Gaz. vol. 175; p. 389.
Frankenfield, Budd, Los Angeles, Cal., assignor to Allis-Chalmers Company. Dynamo-electric machine. No. 1,023,511; Apr. 16; Sp. p. 3744; Gaz. vol. 177; p. 662.
Frankenfield, Budd, Los Angeles, Cal., assignor to Allis-Chalmers Company. Frequency-responsive device. No. 1,029,007; June 11; Sp. p. 2048; Gaz. vol. 179; p. 352.
Frankfurter Musikwerke-Fabrik J. D. Philipps & Söhne Akt. Ges. (See Philipps, August, assignor.)
Franki, George S., Benwood, W. Va. Padlock. No. 1,036,992; Aug. 27; Gaz. vol. 181; p. 981.
Frankignoul, Edgard, Liege, Belgium. Tubing for boring. No. 1,048,304; Dec. 24; Gaz. vol. 185; p. 964.
Frankignoul, Edgard, Liege, Belgium. Tubing for boring. No. 1,048,470; Dec. 24; Gaz. vol. 185; p. 1022.
Frankignoul, Edgard, Liege, Belgium. Foundation. No. 1,049,221; Dec. 31; Gaz. vol. 185; p. 1318.
Franklin, Charles W., Leipsic, Ohio. Beet-topping machine. No. 1,025,693; May 7; Sp. p. 1297; Gaz. vol. 178; p. 202.
Franklin, Hubert F., Brooklyn, assignor to Reliance Ball-Bearing Door Hanger Company, New York, N. Y. Sliding-door lock. No. 1,032,595; July 16; Gaz. vol. 180; p. 686.
Franklin, John F., Yellow Pine, Ala. Locomotive drive-wheel. No. 1,039,668; Sept. 24; Gaz. vol. 182; p. 934.
Franklin Manufacturing Company. (See Evans, Richard J., assignor.)
Franklin, Milton W., Schenectady, N. Y., assignor to General Electric Company. Plating metals. No. 1,037,887; Sept. 10; Gaz. vol. 182; p. 271.
Franklin, Ray W., Waterloo, Iowa. Carrier. No. 1,022,130; Apr. 2; Sp. p. 806; Gaz. vol. 177; p. 127.
Franklin, Robert M., Galveston, Tex. Locking device for blind-slats. No. 1,047,032; Dec. 10; Gaz. vol. 185; p. 465.
Franklin, Robert M., Galveston, Tex. Fastening for blind-slats. No. 1,047,033; Dec. 10; Gaz. vol. 185; p. 465.
Franklin, William E., Crossnore, N. C. Rail-fastening. No. 1,039,374; Sept. 24; Gaz. vol. 182; p. 832.
Franklin, William E., Dallas, Tex. Hinge-seat cutter. No. 1,043,584; Nov. 5; Gaz. vol. 184; p. 192.

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Frankofsky, John Z., Johnstown, Pa. Tool for dressing emery-wheels. No. 1,041,768; Oct. 22; Gaz. vol. 183; p. 808.
Franks, Charles J., assignor to C. Weigel, Cincinnati, Ohio. Crate for carrying bottles. No. 1,049,295; Dec. 31; Gaz. vol. 185; p. 1344.
Franks, David, Glasgow, Scotland. Belt. No. 1,028,346; June 4; Sp. p. 622; Gaz. vol. 179; p. 92.
Franquet, Paul. (See Frantz and Franquet.)
Frantz, Abram E. (See Frantz, Caroline R., assignor.)
Frantz, Alfred, and P. Franquet, Milton, Pa. Rail-fastening. No. 1,032,280; July 9; Gaz. vol. 180; p. 536.
Frantz Buckle Co. (See Frantz, Ezra A., assignor.)
Frantz, Caroline R., assignor to A. E. Frantz, Wilmington, Del. Attaching wall-paper. No. 1,026,793; May 21; Sp. p. 3751; Gaz. vol. 178; p. 649.
Frantz, Ezra A., assignor to Frantz Buckle Co., Weatherford, Tex. Buckle-making machine. No. 1,034,007; July 30; Gaz. vol. 180; p. 1228.
Frantz Manufacturing Co. (See Frantz, Peter, assignor.)
Frantz Manufacturing Co. (See Frantz, Peter, assignor.) (Reissue.)
Frantz, Peter, assignor to Frantz Manufacturing Co., Sterling, Ill. Gate-latch. No. 1,014,290; Jan. 9; Sp. p. 2667; Gaz. vol. 174; p. 444.
Frantz, Peter, assignor to Frantz Manufacturing Co., Sterling, Ill. Track for door-hangers. No. 1,034,608; Aug. 5; Gaz. vol. 181; p. 68.
Frantz, Peter, assignor to Frantz Manufacturing Co., Sterling, Ill. Track for door-hangers. (Reissue.) No. 13,497; Dec. 17; Gaz. vol. 185; p. 806.
Franz, August E., West Chester, Pa. Shoe-lace fastener. No. 1,018,557; Feb. 27; Sp. p. 5212; Gaz. vol. 175; p. 906.
Franz Clouth Rheinische Gummiwaarenfabrik mit beschränkter Haftung. (See Lange and Druckenmüller, assignors.)
Franz, Paul H., Dolgeville, N. Y., assignor to Daniel Green Felt Shoe Company, Boston, Mass. Ornamented shoe. No. 1,035,567; Aug. 13; Gaz. vol. 181; p. 426.
Franzen, Nicklas, Floreffe, and J. A. Bechtel, Tarentum, assignors to Pittsburgh Plate Glass Company, Pittsburgh, Pa. Teeming-crane. No. 1,021,457; Mar. 26; Sp. p. 5226; Gaz. vol. 176; p. 945.
Franzen, Peter M., Chicago, Ill. Fan. No. 1,047,034; Dec. 10; Gaz. vol. 185; p. 466.
Franzheim, Edward B., Wheeling, W. Va. Wheel. No. 1,031,921; July 9; Gaz. vol. 180; p. 414.
Franzký, Hugo, Liegnitz, and J. Wieczorek, Haynau, Germany. Device for holding reins, leashes, and the like. No. 1,034,779; Aug. 6; Gaz. vol. 181; p. 127.
Frary, Edward N. and E. A., South Deerfield, Mass. Gas-lighting burner. No. 1,015,306; Jan. 23; Sp. p. 4889; Gaz. vol. 174; p. 847.
Frary, Ernest A. (See Frary, Edward N. and E. A.)
Fraschini, Oreste, Milan, Italy. Starting device for internal-combustion engines. No. 1,039,504; Sept. 24; Gaz. vol. 182; p. 877.
Frascola, Antonio D., El Reno, Okla. Sole-edge trimming and finishing tool. No. 1,025,390; May 7; Sp. p. 636; Gaz. vol. 178; p. 99.
Fraser, Andrew. (See Riedinger, Eugene R., assignor.)
Fraser, Edgar M., assignor of one-fourth to C. Ohlman and one-fourth to J. P. Ohlman, Brooklyn, N. Y. Leaf-turner. No. 1,037,175; Aug. 27; Gaz. vol. 181; p. 1042.
Fraser, Floyd L., Wichita, Kans. Combined drum and cymbal beater. No. 1,042,904; Oct. 29; Gaz. vol. 183; p. 1225.
Fraser, John, Hackensack, N. J. Machine for making pipes. No. 1,037,888; Sept. 10; Gaz. vol. 182; p. 271.
Fraser, John, Hackensack, N. J. Press for making pipes. No. 1,037,889; Sept. 10; Gaz. vol. 182; p. 271.
Fraser, John A., Benton Harbor, Mich. Electroplating appliance. No. 1,040,923; Oct. 8; Gaz. vol. 183; p. 454.
Fraser, Norman M., Norwalk, Ohio. Attachment for oil-wells. No. 1,017,663; Feb. 20; Sp. p. 3121; Gaz. vol. 175; p. 563.
Fraser, Warren F., Boston, Mass. Machine for feeding and driving pins. No. 1,036,211; Aug. 20; Gaz. vol. 181; p. 684.
Fraser, William A., Georgetown, Ontario, Canada. Water-closet. No. 1,017,044; Feb. 13; Sp. p. 1809; Gaz. vol. 175; p. 314.
Fraser, William A., Georgetown, Ontario, Canada. Flushing-tank. No. 1,047,510; Dec. 17; Gaz. vol. 185; p. 666.
Frayer, Charles A., Toledo, Ohio, assignor, by mesne assignments, to The Bucyrus Company, South Milwaukee, Wis. Bucket mechanism. No. 1,032,358; July 9; Gaz. vol. 180; p. 562.
Frayer, Charles A., Toledo, Ohio, assignor, by mesne assignments, to The Bucyrus Company, South Milwaukee, Wis. Material-handling mechanism. No. 1,036,481; Aug. 20; Gaz. vol. 181; p. 777.
Frazee, Bowditch P., Bath, Me. Automobile sleigh attachment. No. 1,028,819; June 4; Sp. p. 1613; Gaz. vol. 179; p. 251.
Frazee, Jeremiah S., New York, N. Y. Crushing-rolls. No. 1,014,383; Jan. 9; Sp. p. 2887; Gaz. vol. 174; p. 478.
Frazer, Benjamin F., Lafayette, Ala. Plow. No. 1,026,575; May 14; Sp. p. 3247; Gaz. vol. 178; p. 537.
Frazier, Albert S., Amsterdam, N. Y. Feathering propeller-wheel. No. 1,020,274; Mar. 12; Sp. p. 2699; Gaz. vol. 176; p. 457.
Frazier, George H., and J. M. Catlic, Carnegie, Pa.; said Catlic assignor to said Frazier. Derailing device. No. 1,046,381; Dec. 3; Gaz. vol. 185; p. 203.
Frazier, Robert T., Jr., Washington, D. C., assignor of one-half to F. Shuman, Tacony, Philadelphia, Pa. Telautograph. No. 1,035,568; Aug. 13; Gaz. vol. 181; p. 426.
Frear, John D., assignor of one-half to F. H. Buchanan, Centerville, Kans. Acetylene-oxygen welding-torch. No. 1,049,222; Dec. 31; Gaz. vol. 185; p. 1318
Freas, Edwin H., Philadelphia, Pa. Tire. No. 1,018,895; Feb. 27; Sp. p. 5905; Gaz. vol. 175; p. 1018.
Freas, Thomas B., assignor to V. Weber & Company, Chicago, Ill. Constant-temperature bath. No. 1,024,565; Apr. 30; Sp. p. 6091; Gaz. vol. 177; p. 1078.
Freborg, Charles, Kankakee, Ill., assignor to Schaeffer Piano Mfg. Company. Pneumatic piano-player. No. 1,025,135; May 7; Sp. p. 54; Gaz. vol. 178; p. 10.
Freborg, Charles, Kankakee, Ill., assignor to Schaeffer Piano Manufacturing Company. Pneumatic piano-player. No. 1,043,220; Nov. 5; Gaz. vol. 184; p. 63.
Freborg, Charles, Kankakee, Ill., assignor to Schaeffer Piano Mfg. Company. Pneumatic piano-player. No. 1,044,639; Nov. 19; Gaz. vol. 184; p. 616.
Frechette, Onesime, assignor to J. Forstall, St. Pierre, Canada. Ditching-machine. No. 1,019,242; Mar. 5; Sp. p. 520; Gaz. vol. 176; p. 82.
Frecska, Bela W., Amsterdam, Ohio. Wrench. No. 1,017,143; Feb. 13; Sp. p. 2035; Gaz. vol. 175; p. 349.
Fred B. Higgins Co. (See Higgins, Fred B., assignor.)
Fred H. Knapp Company, The. (See Knapp, Frederick H., assignor.)
Fred M. Prescott Steam Pump Company. (See Prescott and Worden, assignors.)
Fred Medart Manufacturing Company. (See Medart, Philip S., assignor.)
Fred W. Morse Company. (See Gillette, George K., assignor.)
Frede, Charles F. (See Westlake and Frede.)
Frede, Charles F., and H. M. Pflager, assignors to Commonwealth Steel Company, St. Louis, Mo. Core-oven. No. 1,029,986; June 18; Sp. p. 4180; Gaz. vol. 179; p. 725.
Frede, Charles F., and C. T. Westlake, assignors to Double Body Bolster Company, St. Louis, Mo. Car construction. No. 1,039,043; Sept. 17; Gaz. vol. 182; p. 698.
Frede, Charles F., and C. T. Westlake, assignors to Double Body Bolster Company, St. Louis, Mo. Car construction. No. 1,046,382; Dec. 3; Gaz. vol. 185; p. 204.
Fredeen, Emil A., Wahpeton, N. D. Apparatus for constructing or repairing lines of wire. No. 1,036,482; Aug. 20; Gaz. vol. 181; p. 777.
Frederick, Charles E., Tombstone, Ariz. Fence. No. 1,043,311; Nov. 5; Gaz. vol. 184; p. 95.
Frederick, Charles L., Norwalk, Ohio. Belt-shifter. No. 1,046,169; Dec. 3; Gaz. vol. 185; p. 127.
Frederick, Edwin E., Bridgeville, Pa. Globe and globe-holder. No. 1,029,356; June 11; Sp. p. 2795; Gaz. vol. 179; p. 471.
Frederick, Edwin E., Bridgeville borough, assignor to The Frederick-Elder Company, Bridgeville, Pa. Shade-holder. No. 1,020,689; Mar. 19; Sp. p. 3582; Gaz. vol. 176; p. 630.
Frederick-Elder Company, The. (See Frederick, Edwin E., assignor.)
Frederick, Emil R., Shelby, Mich. Potato-planter. No. 1,041,613; Oct. 15; Gaz. vol. 183; p. 717.
Frederick, Herman J., Pittsburgh, Pa. Wringer. No. 1,016,685; Feb. 6; Sp. p. 1029; Gaz. vol. 175; p. 157.
Frederick, Joseph M., assignor to Frederick-Ruggles Manufacturing Company, Louisville, Ky. Bottling-machine. No. 1,014,963; Jan. 16; Sp. p. 4184; Gaz. vol. 174; p. 704.
Frederick, Leo M. (See White and Frederick.)
Frederick, Lester. (See Ahern and Frederick.)
Frederick-Ruggles Manufacturing Company. (See Frederick, Joseph M., assignor.)
Frederick Stearns & Company. (See Cadwell, Harry W., assignor.)
Frederick Stearns & Company. (See Stockelbach, Fritz E., assignor.)
Frederick, Zelta J., Casper, Wyo. Flat safety-pin. No. 1,013,482; Jan. 2; Sp. p. 855; Gaz. vol. 174; p. 137.
Frederickson, Clayton E., Coalinga, Cal. Pipe-perforator. No. 1,015,432; Jan. 23; Sp. p. 5172; Gaz. vol. 174; p. 889.
Frederickson, Clayton E., San Francisco, Cal. Under-reamer. No. 1,045,274; Nov. 26; Gaz. vol. 184; p. 865.
Frederickson, Clayton E., San Francisco, assignor of one-half to W. H. Stenger, Berkeley, Cal. Transmission-gear mechanism. No. 1,038,553; Sept. 17; Gaz. vol. 182; p. 532.

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Frederickson, Clayton E., San Francisco, assignor of three-eighths to W. H. Stenger, Berkeley, and one-eighth to L. J. Hart, Palo Alto, Cal. Underreamer. No. 1,036,520; Aug. 20; Gaz. vol. 181; p. 790.
Frederickson, Oscar, Chicago, Ill. System of indicating the contents of liquid-containers. No. 1,017,091; Feb. 13; Sp. p. 1933; Gaz. vol. 175; p. 332.
Frederiksen, Johan D., Little Falls, N. Y. Composition for curdling milk or cream. No. 1,046,766; Dec. 10; Gaz. vol. 185; p. 379.
Frederiksen, Thorvald C., Astoria, Oreg. Umbrella attachment. No. 1,032,199; July 9; Gaz. vol. 180; p. 507.
Fredrick, Jacob. (See Smith, John F., assignor.)
Fredrickson, John, Chicago, Ill. Joist and girder hanger. No. 1,019,778; Mar. 12; Sp. p. 1670; Gaz. vol. 176; p. 291.
Fredrickson, Louie. (See Christiansen, Christian, assignor.)
Fredriksson, Nils. (See Åbjörnsson and Fredriksson.)
Free, Andrew P. (See Fizer, Amos D., assignor.)
Free, John W., West Pittsburg, assignor to Safety-Armorite Conduit Company, Pittsburgh, Pa. Clamping-band for attaching hose to coupling-nipples. No. 1,028,937; June 11; Sp. p. 1892; Gaz. vol. 179; p. 327.
Freeble, Thomas M., Rochester, assignor of one-half to R. M. Kaufmann, Pittsburgh, Pa. Railway signaling system. No. 1,016,882; Feb. 6; Sp. p. 1426; Gaz. vol. 175; p. 221.
Freeble, Thomas M., Rochester, assignor of one-half to R. M. Kaufmann, Pittsburgh, Pa. Switch-locking mechanism. No. 1,042,103; Oct. 22; Gaz. vol. 183; p. 923.
Freed, George F., assignor to The Duff Manufacturing Company, Pittsburgh, Pa. Socket-lever for lifting-jacks. No. 1,017,399; Feb. 13; Sp. p. 2585; Gaz. vol. 175; p. 437.
Freed, Harvey M., Sellersville, Pa. Shoe. No. 1,048,820; Dec. 31; Gaz. vol. 185; p. 1183.
Freedman, Aaron, assignor to Firm of W. Freedman and Sons, Philadelphia, Pa. Lady's skirt. No. 1,033,066; July 16; Gaz. vol. 180; p. 846.
Freedman, Abe J., Chicago, Ill. Folding chair or couch. No. 1,044,160; Nov. 12; Gaz. vol. 184; p. 420.
Freedman, Harry. (See Calder, Lewis, assignor.)
Freedman, Herman N., New York, N. Y. Skirt. No. 1,022,410; Apr. 9; Sp. p. 1370; Gaz. vol. 177; p. 251.
Freedman and Sons, W. (See Freedman, Aaron, assignor.)
Freeland, Buckner F., Middlebury, Ind. Metal grain bin or crib. No. 1,046,456; Dec. 10; Gaz. vol. 185; p. 267.
Freeland, Charles E., Wheeling W. Va., assignor of one-half to G. W. Aukerman, Cadiz, Ohio. Check-lock. No. 1,022,473; Apr. 9; Sp. p. 1521; Gaz. vol. 177; p. 273.
Freeland, Stephen B., Saginaw, Mich. Split gear. No. 1,039,375; Sept. 24; Gaz. vol. 182; p. 832.
Freeman, Albert S., assignor to Freeman Manufacturing Company, Alexandria, Ind. Gas-generator. No. 1,034,702; Aug. 6; Gaz. vol. 181; p. 100.
Freeman, Arthur J., Petaluma, Cal. Automatic photo printing-machine. No. 1,036,212; Aug. 20; Gaz. vol. 181; p. 685.
Freeman, Bert W. (See Engle, Freeman, and Neal.)
Freeman, Charles H., Bloomington, Ill. Explosive-engine starter. No. 1,036,213; Aug 20; Gaz. vol. 181; p. 685.
Freeman, Edgar H., Trenton, N. J. Key-socket. No. 1,016,136; Jan. 30; Sp. p. 6678; Gaz. vol. 174; p. 1160.
Freeman, Edgar H., Trenton, N. J. Lining-fastening for electrical lamp-sockets. No. 1,020,035; Mar. 12; Sp. p. 2193; Gaz. vol. 176; p. 378.
Freeman, Edgar H., Trenton, N. J. Insulating-lining for electrical lamp-sockets. No. 1,020,036; Mar. 12; Sp. p. 2195; Gaz. vol. 176; p. 378.
Freeman, Edgar H., Trenton, N. J. Cap-lining fastener for electrical lamp-sockets. No. 1,021,243; Mar. 26; Sp. p. 4758; Gaz. vol. 176; p. 868.
Freeman, Edward F. (See Beck, Michael, assignor.)
Freeman, Ernest B., Dedham, assignor to B. F. Sturtevant Company, Boston, Mass. Fuel-economizer. No. 1,043,312; Nov. 5; Gaz. vol. 184; p. 95.
Freeman, George M., Seattle, Wash. Combined pump and pitcher. No. 1,036,822; Aug. 27; Gaz. vol. 181; p. 923.
Freeman, George W., Revere, Mass. Truing-up gage. No. 1,047,511; Dec. 17; Gaz. vol. 185; p. 666.
Freeman, George W., assignor of one-half to J. E. Stryker, St. Paul, Minn. Concrete dam. No. 1,043,761; Nov. 5; Gaz. vol. 184; p. 251.
Freeman, James F., Lawrence, Mass. Machine for cleaning bricks. No. 1,033,573; July 23; Gaz. vol. 180; p. 1054.
Freeman, John A., Montgomery, Ala. Portable back-rest. No. 1,030,511; June 25; Sp. p. 5372; Gaz. vol. 179; p. 948.
Freeman, John C., Richmond, Va. Harrow. No. 1,033,574; July 23; Gaz. vol. 180; p. 1055.
Freeman, Joseph W., Columbus, Ohio. Combined burial-casket and grave-vault. No. 1,021,403; Mar. 26; Sp. p. 5120; Gaz. vol. 176; p. 926.
Freeman, Louis G. (See McCoy, William W., assignor.) (Reissue.)
Freeman, Louis G., Cincinnati, Ohio. Insole and lasting tack puller and toe-wire remover. No. 1,019,313; Mar. 5; Sp. p. 692; Gaz. vol. 176; p. 108.
Freeman, Louis G., Cincinnati, Ohio, assignor to United Shoe Machinery Company, Paterson, N. J. Heel-seat-jointing machine. No. 1,019,145; Mar. 5; Sp. p. 309; Gaz. vol. 176; p. 48.
Freeman, Louis W., assignor, by mesne assignments, to said Freeman and J. O. Halverson, Portland, Oreg. Automatic cut-off for gas-stoves. No. 1,048,676; Dec. 31; Gaz. vol. 185; p. 1132.
Freeman, Malcolm W., Millington, Mass. Pneumatic walking attachment. No. 1,021,142; Mar. 26; Sp. p. 4529; Gaz. vol. 176; p. 835.
Freeman, Merriel A., New Harmony, Ind. Corn-popper. No. 1,019,448; Mar. 5; Sp. p. 1023; Gaz. vol. 176; p. 150.
Freeman Mfg. Company. (See Freeman, Albert S., assignor.)
Freeman, Nat H., Boulder, Colo. Apparatus for measuring the evaporation of liquids. No. 1,014,139; Jan. 9; Sp. p. 2337; Gaz. vol. 174; p. 391.
Freeman, Nat H., Denver, Colo. Apparatus for raising water. No. 1,034,703; Aug. 6; Gaz. vol. 181; p. 100.
Freeman, Nat H., Denver, Colo. Apparatus for elevating water. No. 1,035,955; Aug. 20; Gaz. vol. 181; p. 593.
Freeman, Robert E., Maple City, Mich. Bean-puller. No. 1,020,408; Mar. 19; Sp. p. 2963; Gaz. vol. 176; p. 538.
Freeman, Victor E. (See Roder, Robert, assignor.)
Freeman, Walter K., Oscawana, N. Y. Making cement compounds. No. 1,027,118; May 21; Sp. p. 4534; Gaz. vol. 178; p. 762.
Freeman, William A. (See Parsons and Freeman.)
Freeman, William B. (See McElroy and Freeman.)
Freeman, William E. (See Dixon and Freeman.)
Freeman, William E., and C. C. Worth, New York, N. Y. Coupon-strip type-writing machine. No. 1,037,463; Sept. 3; Gaz. vol. 182; p. 98.
Freer, Fred, *et al.* (See Ivor, Barry, assignor.)
Freer, James S., Rutherford, N. J. Etching apparatus. No. 1,016,487; Feb. 6; Sp. p. 572; Gaz. vol. 175; p. 88.
Frees, Chancy A., New York, N. Y. Artificial leg. No. 1,023,247; Apr. 16; Sp. p. 3219; Gaz. vol. 177; p. 575.
Freese, Francis J., Montreal, Quebec, Canada, assignor to United Shoe Machinery Company, Paterson, N. J. Take-up for sewing-machines. No. 1,029,921; June 18; Sp. p. 4056; Gaz. vol. 179; p. 704.
Freese, Francis J., Montreal, Quebec, Canada, assignor to United Shoe Machinery Company, Paterson, N. J. Welt-guide for sewing-machines. No. 1,029,922; June 18; Sp. p. 4058; Gaz. vol. 179; p. 704.
Freese, Francis J., Montreal, Quebec, Canada, assignor to United Shoe Machinery Company, Paterson, N. J. Tension device for sewing-machines. No. 1,029,923; June 18; Sp. p. 4061; Gaz. vol. 179; p. 705.
Freese, Francis J., Montreal, Quebec, Canada, assignor to United Shoe Machinery Company, Paterson, N. J. Sewing-machine. No. 1,030,512; June 25; Sp. p. 5375; Gaz. vol. 179; p. 949.
Freese, Francis J., Lowell, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Sewing-machine. No. 1,030,774; June 25; Sp. p. 6147; Gaz. vol. 179; p. 1043.
Freese, Ira H., Clarksburg, W. Va. Shear and interrupting device for continuous-flow glass-tanks. No. 1,020,409; Mar. 19; Sp. p. 2965; Gaz. vol. 176; p. 538.
Freeth, Francis A., Great Crosby, and H. E. Cocksedge, Herne Hill, London, England. Making pure ammonium chlorid. No. 1,035,696; Aug. 13; Gaz. vol. 181; p. 467.
Fregoso, Severo C., Helensburgh, Scotland. Wheel. No. 1,031,174; July 2; Gaz. vol. 180; p. 116.
Freidag, William F., assignor to Stover Engine Works, Freeport, Ill. Internal-combustion engine. No. 1,013,759; Jan. 2; Sp. p. 1478; Gaz. vol. 174; p. 233.
Freise, Henry F. (See Brunnert, Anton, assignor.)
Freise, William A., New York, and T. H. Campbell, Brooklyn, N. Y.; said Campbell assignor to said Freise. Water-purifier. No. 1,036,214; Aug. 20; Gaz. vol. 181; p. 686.
Fremery, Max. (See Bronnert and Fremery.)
French, Adam C., *et al.* (See Vetterlein, Henry M., assignor.)
French, Alfred W., Piqua, Ohio. Steam-cooker for oil-bearing meal and the like. No. 1,015,013; Jan. 16; Sp. p. 4293; Gaz. vol. 174; p. 722.
French, Alfred W., Piqua, Ohio. Oil-cake pan. No. 1,029,435; June 11; Sp. p. 2981; Gaz. vol. 179; p. 499.
French, Andrew G., Nelson, British Columbia, Canada. Treatment of refractory zinc-lead ores. No. 1,041,060; Oct. 15; Gaz. vol. 183; p. 535.
French, Andrew J., Purcell, S. A. McKelvy, McCloud, and J. W. Scroggs, Kingfisher, Okla. Musical chart. No. 1,017,045; Feb. 13; Sp. p. 1810; Gaz. vol. 175; p. 314.
French, Charles B., Kingston, Pa. Pneumatic hammer. No. 1,022,837; Apr. 9; Sp. p. 2323; Gaz. vol. 177; p. 397.
French, Charles B., Tonganoxie, Kans. Adjustable knock-down book-support. No. 1,037,140; Aug. 27; Gaz. vol. 181; p. 1030.
French, Edward V., Lynn, Mass. Water-meter. No. 1,020,037; Mar. 12; Sp. p. 2196; Gaz. vol. 176; p. 378.

Alphabetical list of patentees—Continued.

French, Francis J., assignor of one-fourth to W. Towle, one-fourth to J. H. McConkey, and one-eighth to F. B. Kennedy, Cleveland, Ohio. Combination hose-nozzle and sprayer. No. 1,026,742; May 21; Sp. p. 3631; Gaz. vol. 178; p. 631.
French, G. Watson, *et al.* (See Einfeldt, Emil, assignor.)
French, J. R., *et al.* (See Miller, Walter J., assignor.)
French, Nathaniel, *et al.* (See Einfeldt, Emil, assignor.)
French, Stephen, and D. T. Bates, Orange, assignors to Athol Machine Company, Athol, Mass. Vise. No. 1,037,231; Sept. 3; Gaz. vol. 182; p. 19.
French, Thomas. (See Locke, Nathaniel C., assignor.)
French, William H., Seattle, Wash. Drilling apparatus. No. 1,047,625; Dec. 17; Gaz. vol. 185; p. 707.
Frenier, Albert B. (See Lamb, Fred B., assignor.)
Frenkil, Izaak, Baltimore, Md. Non-freezing water-closet. No. 1,045,275; Nov. 26; Gaz. vol. 184; p. 866.
Freschl, Alfred, Chicago, Ill. Tire. No. 1,013,596; Jan. 2; Sp. p. 1093; Gaz. vol. 174; p. 176.
Fresh, Henry, Frostburg, Md. Worm-geared hand-brake. No. 1,035,340; Aug. 13; Gaz. vol. 181; p. 348.
Freshel, John L., assignor to Tufting Machine Supply Company, Chicago, Ill. Button-holder. No. 1,042,663; Oct. 29; Gaz. vol. 183; p. 1142.
Fretts, Henry A., Hyde Park, Mass. Crabbing-machine. No. 1,030,656; June 25; Sp. p. 5856; Gaz. vol. 179; p. 1002.
Freud, Maurice, Berlin, Germany. Supporting-arm for display-cases. No. 1,041,264; Oct. 15; Gaz. vol. 183; p. 604.
Freudenthal, Heinrich. (See Tröbs, Johann F. C. M., assignor.)
Freudenthal, Heinrich P. C., Hamburg, Germany. Superphosphate-chamber. No. 1,037,464; Sept. 3; Gaz. vol. 182; p. 98.
Freund, Carl. (See Thron, Spröngerts, and Freund.)
Freund, Ignatz H., assignor to Federal Cement Tile Company, Chicago, Ill. Cement slab or tile with light-pane. No. 1,041,990; Oct. 22; Gaz. vol. 183; p. 885.
Freund, Joseph A., Waltham, Mass., assignor to The Keystone Watch Case Company, Philadelphia, Pa. Stem winding and setting watch. No. 1,029,116; June 11; Sp. p. 2275; Gaz. vol. 179; p. 388.
Freund, Karl, Acton, London, England. Lock. No. 1,032,889; July 16; Gaz. vol. 180; p. 786.
Frew, Hubert S., and F. P. Sexton, Montreal, Quebec, Canada. Writing-machine. No. 1,030,807; June 25; Sp. p. 6249; Gaz. vol. 179; p. 1055.
Frew, Hubert S., and F. P. Sexton, Montreal, Quebec, Canada. Writing-machine. No. 1,033,067; July 16; Gaz. vol. 180; p. 847.
Frey, Clarence N., Cincinnati, Ohio. Metallic shipping-case. No. 1,016,259; Feb. 6; Sp. p. 35; Gaz. vol. 175; p. 8.
Frey, Clarence N., assignor to The J. M. Robinson Manufacturing Company, Cincinnati, Ohio. Rotary corrugating-machine. No. 1,017,400; Feb. 13; Sp. p. 2587; Gaz. vol. 175; p. 438.
Frey, Gustave, New York, N. Y. Clothes-line support. No. 1,014,291; Jan. 9; Sp. p. 2668; Gaz. vol. 174; p. 445.
Frey, James H., Vincennes, Ind. Swing. No. 1,021,590; Mar. 26; Sp. p. 5514; Gaz. vol. 176; p. 990.
Frey, John E., New York, N. Y., assignor to Grinden Art Metal Company. Metallic structure, such as doors and the like. No. 1,018,896; Feb. 27; Sp. p. 5905; Gaz. vol. 175; p. 1018.
Frey, John E., assignor of one-half to B. A. Laws, Pittsburgh, Pa. Vermin-trap. No. 1,020,690; Mar. 19; Sp. p. 3584; Gaz. vol. 176; p. 631.
Frey, John F., Indianapolis, Ind. Semicylindrical stereotype-plate trimmer. No. 1,027,833; May 28; Sp. p. 5996; Gaz. vol. 178; p. 1040.
Frey, Sigmund. (See Toms and Blair, assignors.)
Frey, Sigmund, Los Angeles, Cal. Gravity-hinge. No. 1,049,072; Dec. 31; Gaz. vol. 185; p. 1268.
Frey, Sigmund, assignor of one-half to S. K. Elliott, Los Angeles, Cal. Hose-nozzle. No. 1,018,310; Feb. 20; Sp. p. 4585; Gaz. vol. 175; p. 787.
Frey, Sigmund, assignor of one-third to G. E. Toms and one-third to T. P. Blair, San Diego, Cal. Gravity-hinge. No. 1,034,008; July 30; Gaz. vol. 180; p. 1229.
Frey, Simon, Zurich, Switzerland. Thread-cutting apparatus. No. 1,026,205; May 14; Sp. p. 2464; Gaz. vol. 178; p. 413.
Frey, Simon, Zürich, Switzerland. Thread-cutting apparatus. No. 1,043,082; Nov. 5; Gaz. vol. 184; p. 11.
Freymuth, William A., London, England. Centrifugal separator. No. 1,033,884; July 30; Gaz. vol. 180; p. 1184.
Frick Company. (See Beeler, Samuel E., assignor.)
Frick, Henry H., Fricks, Pa. Arch-centering. No. 1,019,314; Mar. 5; Sp. p. 696; Gaz. vol. 176; p. 108.
Frick, Orlando C., assignor to Smalley Manufacturing Co., Manitowoc, Wis. Feed-cutter. No. 1,043,918; Nov. 12; Gaz. vol. 184; p. 337.
Fricke, John W. (See Poehlman, Henry E., assignor.)
Fricke, Otto, New York, N. Y. Mast for wireless telegraphy. No. 1,026,388; May 14; Sp. p. 2869; Gaz. vol. 178; p. 475.
Fricke, William A., assignor to Monarch Telephone Manufacturing Company, Chicago, Ill. Telephone system. No. 1,016,617; Feb. 6; Sp. p. 892; Gaz. vol. 175; p. 133.
Fricke, William A., assignor to Monarch Telephone Manufacturing Company, Chicago, Ill. Synchronizing system. No. 1,016,618; Feb. 6; Sp. p. 896; Gaz. vol. 175; p. 134.
Fricker, Frederick A., Scranton, Pa. Pencil-sharpener. No. 1,038,112; Sept. 10; Gaz. vol. 182; p. 346.
Frickey, Edward H. (See Williams and Frickey.)
Frickey, Edward H., assignor to Williams Patent Crusher & Pulverizer Company, St. Louis, Mo. Screen for pulverizers. No. 1,014,384; Jan. 9; Sp. p. 2891; Gaz. vol. 174; p. 478.
Frickey, Edward H., assignor to Williams Patent Crusher and Pulverizer Company, St. Louis, Mo. Pulverizer. No. 1,037,232; Sept. 3; Gaz. vol. 182; p. 19.
Fried. Krupp Aktiengesellschaft. (See Heilemann, Walter, assignor.)
Fried. Krupp Aktiengesellschaft. (See Heilemann and Kanonenberg, assignors.)
Fried. Krupp Aktiengesellschaft. (See Kästner, Alfred, assignor.)
Fried. Krupp Aktiengesellschaft. (See Koch, Norbert, assignor.)
Fried. Krupp Aktiengesellschaft. (See Korrodi, Heinrich, assignor.)
Fried. Krupp Aktiengesellschaft. (See Mayer, Wilhelm, assignor.)
Fried. Krupp Aktiengesellschaft. (See Schilling, Franz W., assignor.)
Fried. Krupp Aktiengesellschaft. (See Schwartz, Wilhelm, assignor.)
Fried. Krupp Aktiengesellschaft. (See Wieser, Karl, assignor.)
Fried. Krupp Aktiengesellschaft. (See Wieser and Schwartz, assignors.)
Fried. Krupp Aktiengesellschaft. (See Wilck, Ulrich, assignor.)
Fried. Krupp Aktiengesellschaft Germaniawerft. (See Büttgen, Jacob, assignor.)
Fried, Marcus, Providence, R. I. Baby-carriage. No. 1,014,292; Jan. 9; Sp. p. 2669; Gaz. vol. 174; p. 445.
Friedberger-Aaron Manufacturing Company. (See Goodman, Samuel N., assignor.)
Friedberger, Simon. (See Clark, Absalom F., assignor.)
Friederich, Christian, Tripp, S. D. Resilient tire. No. 1,021,591; Mar. 26; Sp. p. 5515; Gaz. vol. 176; p. 990.
Friederick, John. (See Friederick, Philip and J.)
Friederick, Philip and J., Salina, Kans. Clothes-drainer. No. 1,044,768; Nov. 19; Gaz. vol. 184; p. 662.
Friedlein, Heinrich, Deutz, near Cologne, Germany. Transportable ticket-printing and fare-recording apparatus. No. 1,017,046; Feb. 13; Sp. p. 1814; Gaz. vol. 175; p. 315.
Friedman, Adolph, Fort Worth, Tex. Watch. No. 1,044,370; Nov. 12; Gaz. vol. 184; p. 493.
Friedman, Albert, J. Lieberman, and B. Rose, Philadelphia, Pa. Fastening device for trousers or similar articles. No. 1,034,353; July 30; Gaz. vol. 180; p. 1349.
Friedman, Edgar, New York, N. Y. Embroidery-machine. No. 1,043,685; Nov. 5; Gaz. vol. 184; p. 226.
Friedman, Herman B. (See Lukács, Lázár, assignor.)
Friedman, Samuel, New York, N. Y. Bottle-seals. No. 1,018,107; Feb. 20; Sp. p. 4175; Gaz. vol. 175; p. 718.
Friedman, Sigmund, Gorgona, Canal Zone. Railway-tie. No. 1,037,750; Sept. 3; Gaz. vol. 182; p. 191.
Friedman, William L., Oakland, Cal. Detachable hat-pin head. No. 1,020,754; Mar. 19; Sp. p. 3728; Gaz. vol. 176; p. 654.
Friedmann, Hermann, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Vat dye. No. 1,022,781; Apr. 9; Sp. p. 2212; Gaz. vol. 177; p. 378.
Friedmann, Hermann, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Vat dye. No. 1,023,248; Apr. 16; Sp. p. 3220; Gaz. vol. 177; p. 576.
Friedmann, Hermann, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Vat dye. No. 1,034,895; Aug. 6; Gaz. vol. 181; p. 166.
Friedmann, Hermann, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Yellow vat dye. No. 1,034,896; Aug. 6; Gaz. vol. 181; p. 166.
Friedrich, Carl T., Atkinson, Nebr. Vehicle attachment. No. 1,034,993; Aug. 6; Gaz. vol. 181; p. 198.
Friedrick, Ernest, U. S. Navy. Projectile. No. 1,040,924; Oct. 8; Gaz. vol. 183; p. 454.
Frieling, August, Langenfeld, Germany. Horticultural forcing-house. No. 1,026,576; May 14; Sp. p. 3248; Gaz. vol. 178; p. 537.
Friend, Elias. (See Gerstenfield and Friend.)
Friend, George J., Kingsley, Oreg. Gate. No. 1,020,488; Mar. 19; Sp. p. 3130; Gaz. vol. 176; p. 565.
Friendly, Herbert M., Portland, Oreg. Fault location on electrical conductors. No. 1,034,609; Aug. 6; Gaz. vol. 181; p. 68.
Fries, Karl A. (A.) E., Stockholm, Sweden. Narcotizing-mask. No. 1,021,865; Apr. 2; Sp. p. 248; Gaz. vol. 177; p. 40.

Alphabetical list of patentees—Continued.

Fries, Martin G., assignor of one-half to L. W. Burchard, Denver, Colo. Intake-valve for injectors. No. 1,047,195; Dec. 17; Gaz. vol. 185; p. 553.
Friese, Edward A., Birmingham, Ala. Syrup-pump. No. 1,045,964; Dec. 3; Gaz. vol. 185; p. 58.
Friese-Greene, William, Brighton, England. Air-car or airship. No. 1,031,705; July 9; Gaz. vol. 180; p. 340.
Friestedt, Arthur A., assignor to United States Music Company, Chicago, Ill. Note-sheet spool. No. 1,043,173; Nov. 5; Gaz. vol. 184; p. 46.
Friis, Harald. (See Nielsen, Andreas, assignor.)
Frink, Francis G. (See Watt, Sern P., assignor.)
Frink, Francis G., Seattle, Wash. Excavating-bucket. No. 1,023,370; Apr. 16; Sp. p. 3454; Gaz. vol. 177; p. 617.
Frink, Robert L., Cleveland, Ohio. Device for severing glass cylinders. No. 1,024,983; Apr. 30; Sp. p. 6958; Gaz. vol. 177; p. 1223.
Frisbie, Joseph P., Bridgeport, Conn. Machine for trimming and rimming pies. No. 1,039,505; Sept. 24; Gaz. vol. 182; p. 877.
Frisch, August, Zürich, Switzerland. Indicating mechanism. No. 1,041,061; Oct. 15; Gaz. vol. 183; p. 535.
Frisch & Sohn, Jos. (See Berger, Emanuel, assignor.)
Frisholm, William W., Leadville, Colo. Concrete railway cross-tie. No. 1,020,973; Mar. 26; Sp. p. 4189; Gaz. vol. 176; p. 779.
Frisholm, William W., Leadville, Colo. Beer-tapper. No. 1,021,669; Mar. 26; Sp. p. 5637; Gaz. vol. 176; p. 1014.
Friske, Albert, and E. J. Score, Colfax, N. D. Ironing-board cabinet. No. 1,040,182; Oct. 1; Gaz. vol. 183; p. 171.
Frissell, Frank H., assignor to The Russell Manufacturing Co., Middletown, Conn. Reel for vending elastic webbing. No. 1,037,465; Sept. 3; Gaz. vol. 182; p. 99.
Fritchman, William P., West Newton, Pa. Trap. No. 1,015,168; Jan. 16; Sp. p. 4583; Gaz. vol. 174; p. 775.
Fritsch, Emil, Weiler, near Schlettstadt, Germany. Apparatus for drawing the thread end into cops. No. 1,038,554; Sept. 17; Gaz. vol. 182; p. 532.
Fritsch, John A., Shermerville, Ill. Machine for planting garlic, set-onions, and the like. No. 1,027,119; May 21; Sp. p. 4536; Gaz. vol. 178; p. 763.
Fritsche, Gustav, Strzebowitz, near Schönbrunn, Austria-Hungary, assignor to The Roessler & Hasslacher Chemical Company, New York, N. Y. Germicide and insecticide. No. 1,042,422; Oct. 29; Gaz. vol. 183; p. 1056.
Fritsche, John, assignor of one-third to J. V. Horn and one-third to F. Hardart, Philadelphia, Pa. Container for retaining articles in a chilled or frozen condition. No. 1,039,506; Sept. 24; Gaz. vol. 182; p. 878.
Fritsche, John, assignor of one-third to J. V. Horn and one-third to F. Hardart, Philadelphia, Pa. Container for retaining articles in a heated condition. No. 1,039,507; Sept. 24; Gaz. vol. 182; p. 878.
Fritsche, John, assignor of one-third to J. V. Horn and one-third to F. Hardart, Philadelphia, Pa. Check or coin controlled vending apparatus. No. 1,039,508; Sept. 24; Gaz. vol. 182; p. 879.
Fritsche, Wenzel, Portland, Oreg. Producing printing-plates. No. 1,032,890; July 16; Gaz. vol. 180; p. 787.
Fritz, Andy, Portland, Oreg. Yielding tool-holder. No. 1,023,073; Apr. 9; Sp. p. 2806; Gaz. vol. 177; p. 477.
Fritz, August J., Farmington, N. Mex. Mixing device. No. 1,016,741; Feb. 6; Sp. p. 1140; Gaz. vol. 175; p. 175.
Fritz, George, Park Falls, Wis. Saw-gage. No. 1,048,403; Dec. 24; Gaz. vol. 185; p. 998.
Fritz, Julius, Petaluma, Cal. Egg-case. No. 1,028,702; June 4; Sp. p. 1355; Gaz. vol. 179; p. 211.
Fritz, Julius L., assignor of one-half to A. H. Oman, Philadelphia, Pa. Priming device for carbureters. No. 1,048,518; Dec. 31; Gaz. vol. 185; p. 1077.
Fritz, Karl, Wyomissing, Pa. Molding-machine. No. 1,023,201; Apr. 16; Sp. p. 3133; Gaz. vol. 177; p. 560.
Fritz, Michael J., *et al.* (See Leggett, Ross M., assignor.)
Fritz Schulz jun. Aktiengesellschaft. (See Gruber, Hermann, assignor.)
Fritz, Spencer J., Avoca, N. Y. Potato-digger. No. 1,021,592; Mar. 26; Sp. p. 5517; Gaz. vol. 176; p. 990.
Fritz, William C., Chicago, Ill. Scaffold. No. 1,033,389; July 23; Gaz. vol. 180; p. 994.
Fritzel, Oscar A., administrator. (See Elliott and Kelly.)
Friz, Clyde N., Baltimore, Md. Automatic vehicle-jack. No. 1,037,610; Sept. 3; Gaz. vol. 182; p. 145.
Frizzell, John B. (See Osgood, Gilbert E., assignor.)
Froberg, Johan R., Richmond, Cal. Aeroplane attachment. No. 1,044,161; Nov. 12; Gaz. vol. 184; p. 420.
Froehlich, Joseph, assignor to F. L. Schmidt, New York, N. Y. Envelop-machine. No. 1,042,423; Oct. 29; Gaz. vol. 183; p. 1056.
Froehlich, Joseph, assignor to F. L. Schmidt, New York, N. Y. Counting mechanism. No. 1,042,424; Oct. 29; Gaz. vol. 183; p. 1057.
Froelich, Gottlieb W., St. Paul, Minn. Laundry-drier. No. 1,034,610; Aug. 6; Gaz. vol. 181; p. 68.
Froelich, Joseph, *et al.* (See Wiese, Theodore L., assignor.)
Froelich, Russell H., St. Louis, Mo. Flying-machine. No. 1,039,115; Sept. 24; Gaz. vol. 182; p. 739.
Froger, Louis V. W., Lorient, France. Towing apparatus. No. 1,016,619; Feb. 6; Sp. p. 899; Gaz. vol. 175; p. 134.
Frohbieter, August F., Evansville, Ind. Safety whip-socket. No. 1,039,376; Sept. 24; Gaz. vol. 182; p. 833.
Fröhlich, Jaroslav. (See Engi and Fröhlich.)
Frohnholzer, Joseph, New York, N. Y. Non-refillable bottle. No. 1,039,669; Sept. 24; Gaz. vol. 182; p. 934.
Fromhold, Alexander, Rutherford, N. J. Transom-lifter, &c. No. 1,021,308; Mar. 26; Sp. p. 4883; Gaz. vol. 176; p. 892.
Fromhold, Alexander, Rutherford, N. J., assignor to Voigtman & Company, New York, N. Y. Window-frame. No. 1,048,062; Dec. 24; Gaz. vol. 185; p. 883.
Fromhold, Alexander, Rutherford, N. J., assignor to S. H. Pomeroy Company, New York, N. Y. Hollow-metal window construction. No. 1,049,223; Dec. 31; Gaz. vol. 185; p. 1319.
Fromm, William, *et al.* (See Meis, William, assignor.)
Frommann, Franklin A., Detroit, Mich. Wheel. No. 1,040,925; Oct. 8; Gaz. vol. 183; p. 455.
Frommer, Rudolf, Budapest, Austria-Hungary. Automatic firearm. No. 1,038,555; Sept. 17; Gaz. vol. 182; p. 532.
Frommer, Rudolf, Budapest, Austria-Hungary. Self-loading pistol of the kind having sliding barrels. No. 1,039,922; Oct. 1; Gaz. vol. 183; p. 84.
Froney, Maynard A., and J. H. Optenberg, Sheboygan, Wis. Band-saw. No. 1,047,196; Dec. 17; Gaz. vol. 185; p. 553.
Fronk, Howard J. (See McGuire and Fronk.)
Frontier Iron Works. (See Robertson, William, assignor.)
Frossard, John A., East Pepperell, Mass. Device for cleansing the surface of rolls. No. 1,034,780; Aug. 6; Gaz. vol. 181; p. 127.
Frost, Amanda. (See Frost, Pebble F., assignor.)
Frost, Charles H., Pasadena, Cal. Making brick. No. 1,014,964; Jan. 16; Sp. p. 4186; Gaz. vol. 174; p. 705.
Frost, Horatio T., Vivian, S. D. Mold. No. 1,041,991; Oct. 22; Gaz. vol. 183; p. 885.
Frost, Lorenzo S., Cambridge, Mass. Pipe threading and reaming device. No. 1,026,668; May 21; Sp. p. 3472; Gaz. vol. 178; p. 606.
Frost, Nathaniel, Bloomington, Ill. Furnace. No. 1,018,967; Feb. 27; Sp. p. 6066; Gaz. vol. 175; p. 1044.
Frost, Pebble F., Silverdale, Wash., assignor to A. Frost, Victoria, Canada. Waterproofing compound for leather. No. 1,016,137; Jan. 30; Sp. p. 6680; Gaz. vol. 174; p. 1161.
Frost, Walter E., assignor of one-fourth to A. L. Childs and R. W. Crockett and one-fourth to W. W. Sanborn, Lewiston, Me. Railway-telephone. No. 1,019,628; Mar. 5; Sp. p. 1378; Gaz. vol. 176; p. 210.
Frost, William H., Schenectady, N. Y., assignor to General Electric Company. Magneto-drive for internal-combustion engines. No. 1,046,579; Dec. 10; Gaz. vol. 185; p. 311.
Frothingham, Charles F. (See Goss, Harry T., assignor.)
Frothingham, Charles F. (See Hoofnagle, William T., assignor.)
Frothingham, Charles F., New York, N. Y. Dish-washing machine No. 1,042,664; Oct. 29; Gaz. vol. 183; p. 1143.
Frouk, Engene, Bowie, Colo. Nut-lock. No. 1,046,580; Dec. 10; Gaz. vol. 185; p. 311.
Frow, William E., Lisbon Falls, Me. Means for transmission of intelligence. No. 1,016,003; Jan. 30; Sp. p. 6400; Gaz. vol. 174; p. 1113.
Frumkin, Srol B., Minsk, Russia. Converter. No. 1,025,260; May 7; Sp. p. 335; Gaz. vol. 178; p. 54.
Frusher, Tom, New York, N. Y. Bleaching and dyeing machine. No. 1,024,003; Apr. 23; Sp. p. 4784; Gaz. vol. 177; p. 849.
Fry, Aloysius H., Paxico, Kans. Article-depository. No. 1,047,035; Dec. 10; Gaz. vol. 185; p. 467.
Fry, Archie E., Salem, W. Va. Rail-lock. No. 1,014,589; Jan. 9; Sp. p. 3260; Gaz. vol. 174; p. 544.
Fry, Charles A., assignor to Link-Belt Company, Philadelphia, Pa. Cover for conveyers. No. 1,023,636; Apr. 16; Sp. p. 4000; Gaz. vol. 177; p. 702.
Fry, Dock, Charleston, Ark. Well-cleaner. No. 1,013,933; Jan. 9; Sp. p. 1893; Gaz. vol. 174; p. 322.
Fry, Edward J., Jeannette, Pa. Wrench. No. 1,046,286; Dec. 3; Gaz. vol. 185; p. 170.
Fry, Elwood. (See Hubert and Fry.)
Fry, Harrison A., and G. J. Bruce, Spring Lake, Wis. Cushion-tire. No. 1,044,512; Nov. 19; Gaz. vol. 184; p. 571.
Fry, Harry E., New York, N. Y. Adjustable heel for footwear. No. 1,020,138; Mar. 12; Sp. p. 2407; Gaz. vol. 176; p. 411.
Fry, Jesse H., Rochester, Pa. Bichromatic lamp. No. 1,021,458; Mar. 26; Sp. p. 5228; Gaz. vol. 176; p. 945.
Fry, John G. (See Seashole, Guy W., assignor.)
Fry, Robert B., Hickory, N. C. Plow. No. 1,036,215; Aug. 20; Gaz. vol. 181; p. 687.
Fry, William, Edinburg, Va. Nut-lock. No. 1,022,542; Apr. 9; Sp. p. 1664; Gaz. vol. 177; p. 295.
Fry, William E. (See Jackson and Fry.)
Fry, William H., Tuscola, Ill. Lock-washer. No. 1,017,528; Feb. 13; Sp. p. 2863; Gaz. vol. 175; p. 483.
Fryberg, Elmer E. (See Fryberg and Johnson.)

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Fryberg, Joseph N. and E. E., and P. Johnson, Duluth, Minn. Barrel-caster. No. 1,045,013; Nov. 19; Gaz. vol. 184; p. 746.
Fryckberg, William F., Philadelphia, Pa. Post-hole digger and shovel. No. 1,028,872; June 11; Sp. p. 1740; Gaz. vol. 179; p. 304.
Frye, Edwin L. (See Jensen, Niels, assignor.)
Frye, Harry. (See Tilford, Charley R., assignor.)
Frye, Lee E., San Francisco, Cal. Reversible-door wall-bed. No. 1,034,611; Aug. 6; Gaz. vol. 181; p. 69.
Fryer, James M., Middletown, Ohio. Headlight-operating mechanism. No. 1,035,569; Aug. 13; Gaz. vol. 181; p. 426.
Fryer, Robert M., New York, N. Y., assignor of one-half to F. B. Colman, Passaic, N. J. Operating internal-combustion engines. No. 1,027,380; May 21; Sp. p. 5053; Gaz. vol. 178; p. 851.
Fryling, George P., *et al.* (See Bear, William L., assignor.)
Fryling, Herbert R. (See James and Fryling.)
Fucci, Carlo. (See Brevetti and Fucci.)
Fuchs, Ernesto, Guadalajara, Mexico. Flying-machine. No. 1,020,275; Mar. 12; Sp. p. 2700; Gaz. vol. 176; p. 457.
Fuchs, Ernesto, Guadalajara, Mexico. Condiment-holder. No. 1,033,688; July 23; Gaz. vol. 180; p. 1090.
Fuchs, Ernesto, Guadalajara, Mexico. Double-compartment substance-holder. No. 1,033,689; July 23; Gaz. vol. 180; p. 1091.
Fuchs, Fredrick, Elizabeth, N. J. Steam-engine. No. 1,046,170; Dec. 3; Gaz. vol. 185; p. 127.
Fuchs & Lang Manufacturing Company, The. (See Ford, Albert J., assignor.)
Fuchs, Leonhard, Rochester, N. Y. Mechanical movement. No. 1,041,265; Oct. 15; Gaz. vol. 183; p. 604.
Fuchs, Marie W., Buffalo, N. Y. Garment. No. 1,016,988; Feb. 13; Sp. p. 1694; Gaz. vol. 175; p. 295.
Fuchs, Paul, Baltimore, Md. Hook for signal devices. No. 1,016,260; Feb. 6; Sp. p. 36; Gaz. vol. 175; p. 8.
Fuchs, Philip A., *et al.* (See Sieben and Stevenson, assignors.)
Fuda, Ralph, Norfolk, Va. Target air-gun. No. 1,033,094; July 23; Gaz. vol. 180; p. 894.
Fuel Oil Engine Company. (See Murphy, George F., assignor.)
Fuerstenberg, John, *et al.* (See Anderson, James B., assignor.)
Fuerth, William G., assignor to Equilibrator Company, Newark, N. J. Ink. No. 1,013,544; Jan. 2; Sp. p. 989; Gaz. vol. 174; p 159.
Fues, Ernst, Hanau, Germany. Manufacture of a new kind of parchment-paper. No. 1,033,757; July 23; Gaz. vol. 180; p. 1112.
Fuhr, William, New York, N. Y. Bottle-stopper. No. 1,027,195; May 21; Sp. p. 4680; Gaz. vol. 178; p. 787.
Fuhrer, Paul, Denver, Colo. Combined mop holder and wringer. No. 1,029,436; June 11; Sp. p. 2983; Gaz. vol. 179; p. 499.
Fuhrman, Samuel J., Scranton, Pa. Collapsible bucket. No. 1,039,044; Sept. 17; Gaz. vol. 182; p. 698.
Fuhs, Henry J., Faribault, Minn. Furniture-clamp. No. 1,048,519; Dec. 31; Gaz. vol. 185; p. 1077.
Fulcher, Clark A., assignor of one-half to O. A. Braman, Monroe, Mich. Fly-trap for window and door screens. No. 1,022,669; Apr. 9; Sp. p. 1939; Gaz. vol. 177; p. 338.
Fulcher, Felix H., Colfax, La. Handle-attaching device for tools. No. 1,034,992; Aug. 6; Gaz. vol. 181; p. 197.
Fulda, Lamartine R., San Francisco, Cal. Propeller. No. 1,044,371; Nov. 12; Gaz. vol. 184; p. 493.
Fulda, Wilhelm, Griesheim, assignor to Chemische Fabrik Griesheim-Elektron, Frankfort-on-the-Main, Germany. Manufacture of sulfuric acid. No. 1,048,953; Dec. 31; Gaz. vol. 185; p. 1227.
Fulde, Charles, New York, N. Y. Baker's drip-pan. No. 1,025,971; May 14; Sp. p. 1923; Gaz. vol. 178; p. 331.
Fulenwider, Vance P., Jonesboro, Ark. Railway-spike. No. 1,025,799; May 7; Sp. p. 1515; Gaz. vol. 178; p. 239.
Fulk, Alexander, Mount Airy, N. C. Brace for bolsters and the like. No. 1,020,410; Mar. 19; Sp. p. 2974; Gaz. vol. 176; p. 539.
Fulkerson, Joseph C., and T. G. White, Marion, Iowa. Baling-press. No. 1,042,544; Oct. 29; Gaz. vol. 183; p. 1100.
Fuller, Albert. (See Hiering and Fuller.)
Fuller, Benjamin D., J. R. and T. A. Reilly, assignors to The Osborn Manufacturing Company, Cleveland, Ohio. Mechanism for drawing patterns from molds. No. 1,042,780; Oct. 29; Gaz. vol. 183; p. 1183.
Fuller, Carl T., East Orange, N. J., assignor to General Electric Company. Electric furnace. No. 1,023,371; Apr. 16; Sp. p. 3455; Gaz. vol. 177; p. 617.
Fuller, Carl T., Schenectady, N. Y., assignor to General Electric Company. Apparatus for grinding and sorting powders. No. 1,041,769; Oct. 22; Gaz. vol. 183; p. 808.
Fuller, Clarence W., Yonkers, N. Y. Clothes-marking clip. No. 1,030,883; July 2; Gaz. vol. 180; p. 12.
Fuller, Claude V., Newark, N. J. Sanitary telephone-mouthpiece. No. 1,026,503; May 14; Sp. p. 3113; Gaz. vol. 178; p. 514.
Fuller, Claude V., New York, N. Y. Antiseptic telephone-mouthpiece. No. 1,032,596; July 16; Gaz. vol. 180; p. 686.
Fuller, Duncan M. (See Schultz and Fuller.)
Fuller, Elijah P., *et al.* (See Adams, William C., assignor.)
Fuller, Erwin W., Chicago, Ill. Machine for enciphering and deciphering messages. No. 1,038,556; Sept. 17; Gaz. vol. 182; p. 533.
Fuller, Frank L. (See Fancher, Rosman I., assignor.)
Fuller, Franz A., assignor to The J. E. Mergott Company, Newark, N. J. Bag-fastener. No. 1,014,820; Jan. 16; Sp. p. 3855; Gaz. vol. 174; p. 654.
Fuller, Franz A., assignor to J. E. Mergott Company, Newark, N. J. Bag-fastener. No. 1,020,547; Mar. 19; Sp. p. 3267; Gaz. vol. 176; p. 584.
Fuller, Franz A., assignor to The J. E. Mergott Company, Newark, N. J. Bag-fastener. No. 1,024,930; Apr. 30; Sp. p. 6867; Gaz. vol. 177; p. 1206.
Fuller, Franz A., assignor to The J. E. Mergott Company, Newark, N. J. Handle-fastening for bag-frames. No. 1,028,203; June 4; Sp. p. 328; Gaz. vol. 179; p. 44.
Fuller, Franz A., assignor to The J. E. Mergott Company, Newark, N. J. Bag-frame. No. 1,031,435; July 2; Gaz. vol. 180; p. 205.
Fuller, Franz A., assignor to The J. E. Mergott Company, Newark, N. J. Match-box. No. 1,033,240; July 23; Gaz. vol. 180; p. 944.
Fuller, Franz A., assignor to The J. E. Mergott Company, Newark, N. J. Bag-fastener. No. 1,036,823; Aug. 27; Gaz. vol. 181; p. 924.
Fuller, Fred L., Sacramento, Cal. Signal for pneumatic tires. No. 1,036,602; Aug. 27; Gaz. vol. 181; p. 852.
Fuller, Frederick H., Camas, Wash., assignor of forty-nine one-hundredths to W. P. Hawley, Oregon City, Oreg. Paper-making machine. No. 1,013,288; Jan. 2; Sp. p. 452; Gaz. vol. 174; p. 70.
Fuller, Frederick L., assignor to The National Cash Register Company, Dayton, Ohio. Total-printing cash-register. No. 1,022,230; Apr. 2; Sp. p. 1013; Gaz. vol. 177; p. 162.
Fuller, Frederick R., North Grafton, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Vamp-cutter. No. 1,034,704; Aug. 6; Gaz. vol. 181; p. 101.
Fuller, Harvey B., St. Paul, Minn. Scaffold. No. 1,018,658; Feb. 27; Sp. p. 5414; Gaz. vol. 175; p. 938.
Fuller, James A., assignor to Hamilton and Hamilton, Jr., Providence, R. I. Watch-protector. No. 1,038,740; Sept. 17; Gaz. vol. 182; p. 597.
Fuller, James H. (See Flanagan, Liberty K., assignor.)
Fuller, James H., and A. Miller, Moberly, Mo. Fishing device. No. 1,038,866; Sept. 17; Gaz. vol. 182; p. 641.
Fuller, James S. (See Umpleby, James E., assignor.)
Fuller, James T., deceased; C. D. Gordon, Chattanooga, Tenn., administrator, assignor to L. T. and M. J. Fuller, Houston, Tex. Cylinder for cotton-gins. No. 1,015,759; Jan. 23; Sp. p. 5878; Gaz. vol. 174; p. 1002.
Fuller, James T., deceased; C. D. Gordon, Chattanooga, Tenn., administrator, assignor to L. T. and M. J. Fuller, Houston, Tex. Cylinder for cotton-gins. No. 1,035,821; Aug. 13; Gaz. vol. 181; p. 510.
Fuller, James W., Jr., Catasauqua, Pa. Pulverizer-mill. No. 1,039,721; Oct. 1; Gaz. vol. 183; p. 17.
Fuller, Jesse W., Muncie, Ind. Motor-plow. No. 1,029,601; June 18; Sp. p. 3319; Gaz. vol. 179; p. 590.
Fuller, John W., assignor of one-half to W. E. Nearpass, Jersey City, N. J. Steam gage-cock. No. 1,037,176; Aug. 27; Gaz. vol. 181; p. 1042.
Fuller & Johnson Manufacturing Co. (See Winkley, Frank D., assignor.)
Fuller, L. T., *et al.* (See Fuller, James T., assignor.)
Fuller Manufacturing Company, The. (See Duffy, James W., assignor.)
Fuller, Mary J., *et al.* (See Fuller, James T., assignor.)
Fuller, Milo S., Oneonta, N. Y. Fastening device. No. 1,039,045; Sept. 17; Gaz. vol. 182; p. 698.
Fuller, Richard W., Webster township, Woodward county, Okla. Concrete-building apparatus. No. 1,028,013; May 28; Sp. p. 6409; Gaz. vol. 178; p. 1099.
Fuller, Russell B., Evansville, Ind. Box-hinge. No. 1,025,261; May 7; Sp. p. 339; Gaz. vol. 178; p. 55.
Fuller, Willard B., Catasauqua, Pa. Mop. No. 1,025,800; May 7; Sp. p. 1516; Gaz. vol. 178; p. 239.
Fullman, James M. G., Pittsburgh, Pa. Knock-out closure in wall-boxes. No. 1,039,722; Oct. 1; Gaz. vol. 183; p. 18.
Fulmer, Charles G., McKeesport, Pa. Testing device. No. 1,027,834; May 28; Sp. p. 5997; Gaz. vol. 178; p. 1040.
Fulmer, Harvey B., Los Angeles, Cal. Casing-perforator. No. 1,030,992; July 2; Gaz. vol. 180; p. 50.
Fulmer, Henry M., *et al.* (See Cummins, Herbert L., assignor.)
Fulmer, James R., Springfield, S. C. Mower. No. 1,025,262; May 7; Sp. p. 340; Gaz. vol. 178; p. 55.
Fulper, William H., Flemington, N. J. Lamp. No. 1,045,965; Dec. 3; Gaz. vol. 185; p. 58.

Alphabetical list of patentees—Continued.

Fulsom, Charles H., Memphis, Tenn., assignor of one-half to J. W. Todd, New Orleans, La. Device for cooking cotton-seed or linseed meats. No. 1,041,455; Oct. 15; Gaz. vol. 183; p. 668.
Fulton, Charles H., and W. A. Coursen, Rapid City, S. D. Metallurgical furnace. No. 1,048,144; Dec. 24; Gaz. vol. 185; p. 912.
Fulton Company, The. (See Fulton, Weston M., assignor.)
Fulton, George, Winnipeg, Manitoba, Canada. Wooden floor-covering. No. 1,028,703; June 4; Sp. p. 1356; Gaz. vol. 179; p. 212.
Fulton, James B., Marne, Iowa. Double sickle for mowers and harvesters. No. 1,017,863; Feb. 20; Sp. p. 3607; Gaz. vol. 175; p. 632.
Fulton, John. (See Rice and Fulton.) (Reissue.)
Fulton Manufacturing Company. (See Adams, Arthur J., assignor.)
Fulton, Weston M., assignor to The Fulton Company, Knoxville, Tenn. Air-valve for steam-radiators. No. 1,044,040; Nov. 12; Gaz. vol. 184; p. 380.
Fulton, Willard A., Sparta, Wis. Separator. No. 1,025,694; May 7; Sp. p. 1299; Gaz. vol. 178; p. 202.
Fulton, William L., Jr., Savannah, Ga. Spring-wheel. No. 1,034,438; Aug. 6; Gaz. vol. 181; p. 13.
Fulton, William L., G. J. Scrimshaw, and W. M. Snyder, Savannah, Ga. Wire-rope block. No. 1,034,437; Aug. 6; Gaz. vol. 181; p. 13.
Funaro, Frank, Carona, Kans. Chimney-cap. No. 1,015,169; Jan. 16; Sp. p. 4585; Gaz. vol. 174; p. 775.
Funck, Otto E., Rohracker, near Stuttgart, and P. W. Funck, Stuttgart, Germany. Apparatus for hanking food-paste threads. No. 1,044,449; Nov. 12; Gaz. vol. 184; p. 519.
Funck, Paul W. (See Funck, Otto E. and P. W.)
Funck, Philipp, Rochester, N. Y., assignor to United Shoe Machinery Company, Paterson, N. J. Sole-cutting machine. No. 1,017,744; Feb. 20; Sp. p. 3298; Gaz. vol. 175; p. 590.
Funderburg, James H., Lake Charles, La. Nut-lock. No. 1,031,639; July 2; Gaz. vol. 180; p. 274.
Fundis, Frederick M., New Kensington, Pa. Nut-locking device. No. 1,017,401; Feb. 13; Sp. p. 2590; Gaz. vol. 175; p. 438.
Funk, Christian, Heidelberg, Germany. Boot-tree. No. 1,018,608; Feb. 27; Sp. p. 5309; Gaz. vol. 175; p. 921.
Funk, Christian, Heidelberg, Germany. Boot and like stretcher. No. 1,032,597; July 16; Gaz. vol. 180; p. 686.
Funk, Edgar M., assignor to Liberty Cartridge Co., Mount Carmel, Conn. Primer for cartridges. No. 1,040,250; Oct. 1; Gaz. vol. 183; p. 193.
Funk, John G., Swissvale borough, Pa. Vehicle-tire. No. 1,035,870; Aug. 20; Gaz. vol. 181; p. 564.
Funk, Levi L., Chicago, Ill. Dental broach. No. 1,022,838; Apr. 9; Sp. p. 2325; Gaz. vol. 177; p. 398.
Funk, Lewis A., Jeromesville, Ohio, assignor to The Rude Bros. Mfg. Co., Liberty, Ind. Manure-spreader. (Reissue.) No. 13,369; Feb. 20; Sp. p. 4788; Gaz. vol. 175; p. 819.
Funk, Richard W., Weehawken, N. J. Temporary locking-piece for transversely-split vehicle-wheel rims. No. 1,041,062; Oct. 15; Gaz. vol. 183; p. 536.
Funsten Bros. & Company. (See Grah, Robert H., assignor.)
Funsten Brothers & Company. (See McAfee, Charles L., assignor.)
Fuqua, James E., Montevallo, Mo. Vehicle-shaft. No. 1,034,994; Aug. 6; Gaz. vol. 181; p. 198.
Fuqua, James E., Montevallo, Mo. Vehicle-tongue. No. 1,044,769; Nov. 19; Gaz. vol. 184; p. 663.
Fuqua, Thomas W., *et al.* (See Savignac and Myers, assignors.)
Furber, Frederick M., Revere, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Heel-blacking machine. No. 1,015,433; Jan. 23; Sp. p. 5176; Gaz. vol. 174; p. 890.
Furber, Frederick M., Revere, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for operating upon soles. No. 1,019,888; Mar. 12; Sp. p. 1883; Gaz. vol. 176; p. 329.
Furber, Frederick M., Revere, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Blacking-machine. No. 1,025,523; May 7; Sp. p. 932; Gaz. vol. 178; p. 145.
Furber, Frederick M., Revere, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Device for applying liquid to shoes or other stock. No. 1,043,087; Nov. 5; Gaz. vol. 184; p. 13.
Furber, Frederick M., Lynn, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Treadle mechanism. No. 1,029,008; June 11; Sp. p. 2050; Gaz. vol. 179; p. 353.
Furber, Frederick M., Lynn, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Cementing-machine. No. 1,043,084; Nov. 5; Gaz. vol. 184; p. 12.
Furber, Frederick M., Lynn, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Cementing-machine. No. 1,043,085; Nov. 5; Gaz. vol. 184; p. 13.
Furber, Frederick M., Lynn, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Cementing-machine. No. 1,043,086; Nov. 5; Gaz. vol. 184; p. 13.
Furber, Frederick M., Haverhill, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Cementing-machine. No. 1,043,083; Nov. 5; Gaz. vol. 184; p. 12.
Furby, Jesse. (See Sternberg and Furby.)
Furlow, James W., Los Angeles, Cal. Casting-machine. No. 1,035,956; Aug. 20; Gaz. vol. 181; p. 594.
Furnace Patent Company, The. (See Wedge, Utley, assignor.)
Furr, Harry L., Harrisonburg, Va. Electrical switch means. No. 1,020,818; Mar. 19; Sp. p. 3856; Gaz. vol. 176; p. 675.
Furrer, Alfred, Altstadt, near Tetschen, Austria-Hungary. Tongs for separating spinning-cylinders. No. 1,020,139; Mar. 12; Sp. p. 2408; Gaz. vol. 176; p. 411.
Furrow, Grace O., Hood River, Oreg. Adjustable music-desk for pianofortes. No. 1,037,233; Sept. 3; Gaz. vol. 182; p. 20.
Furtaw, Charles A., assignor to Furtaw-McKay Monoplane Company, Philadelphia, Pa. Airship. No. 1,039,116; Sept. 24; Gaz. vol. 182; p. 740.
Furtaw-McKay Monoplane Company. (See Furtaw, Charles A., assignor.)
Furth, George W., Cleveland, Ohio. Buckle. No. 1,047,036; Dec. 10; Gaz. vol. 185; p. 467.
Fuskerud, Christian, Wentworth, S. D. Apparel-hanger. No. 1,034,439; Aug. 6; Gaz. vol. 181; p. 14.
Fusner, Jesse L., Wellsburg, W. Va. Hand-oiler. No. 1,034,897; Aug. 6; Gaz. vol. 181; p. 167.
Fusner, Jesse L., assignor to Eagle Glass & Mfg. Co., Wellsburg, W. Va. Torch. No. 1,044,041; Nov. 12; Gaz. vol. 184; p. 380.
Fuss, Max. (See Arons and Fuss.)
Fuss, Max, Berlin, Germany. Ozonizing apparatus. No. 1,017,258; Feb. 13; Sp. p. 2294; Gaz. vol. 175; p. 390.
Fussenegger, Ernst, assignor to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Azo dyes and making the same. No. 1,034,898; Aug. 6; Gaz. vol. 181; p. 167.
Fye, Burdette, Reynoldsville, Pa. Folding support. No. 1,044,879; Nov. 19; Gaz. vol. 184; p. 700.
Fyfe, Alexander C., Weehawken, and W. E. Gladstone, West New York, N. J. Automatic buffing-machine. No. 1,017,864; Feb. 20; Sp. p. 3608; Gaz. vol. 175; p. 632.
Fynn, Valère A., St. Louis, Mo. Alternating-current motor. (Reissue.) No. 13,426; June 11; Sp. p. 3267; Gaz. vol. 179; p. 548.
Fynn, Valère A., Blackheath, England. Alternate-current motor. No. 1,038,337; Sept. 10; Gaz. vol. 182; p. 422.
Fynn, Valère A., London, England. Alternate-current motor. No. 1,038,338; Sept 10; Gaz. vol. 182; p. 422.
Fynn, Valère A., London, England. Dynamo-electric machine. No. 1,044,640; Nov. 19; Gaz. vol. 184; p. 616.
Fynn, Valère A., London, England. Rotary converter. No. 1,044,641; Nov. 19; Gaz. vol. 184; p. 616.
G. H. Williams Company, The. (See Williams, Charle C., assignor.)
G. H. Williams Company, The. (See Williams, Gurdon H., assignor.)
G. T. Eames Company, The. (See Eames, Gardner T., assignor.)
Gaa, Christian P., Bucyrus, Ohio. Pop-valve. No. 1,013,483; Jan. 2; Sp. p. 856; Gaz. vol. 174; p. 137.
Gabbett-Fairfax, Hugh W., Westminster, London, England. Decorticating-machine. No. 1,038,339; Sept. 10; Gaz. vol. 182; p. 422.
Gabel, Henry M., Cincinnati, Ohio. Automobile fire-engine. No. 1,047,197; Dec. 17; Gaz. vol. 185; p. 554.
Gabel, John C., Champaign, assignor of one-half to C. N. Cadwell, Chicago, Ill. Electrical office-indicator. No. 1,036,089; Aug. 20; Gaz. vol. 181; p. 639.
Gable, Franklin P. (See Buttman and Gable.)
Gable, John E., Evanston, Ill. Well-pump. No. 1,036,824; Aug. 27; Gaz. vol. 181; p. 924.
Gabler, Johannes. (See Elmendorf and Gabler.)
Gabler, Johannes, Mülhausen, Germany. Mechanism for threading shuttles. No. 1,023,831; Apr. 23; Sp. p. 4406; Gaz. vol. 177; p. 791.
Gabler-Saliter, Johann M., Obergünzburg, Germany. Desiccating apparatus. No. 1,046,767; Dec. 10; Gaz. vol. 185; p. 379.
Gabriel, Charles R., New York, assignor to E. W. Bliss Company, Brooklyn, N. Y. Mine-anchor. No. 1,023,832; Apr. 23; Sp. p. 4407; Gaz. vol. 177; p. 792.
Gabriel, Darneville H., Adeline, La. Protector for tires. No. 1,014,458; Jan. 9; Sp. p. 3029; Gaz. vol. 174; p. 502.
Gabrielli, Charles, Paris, France. Roasting ores. No. 1,018,609; Feb. 27; Sp. p. 5310; Gaz. vol. 175; p. 922.
Gabrielsen, Joachim, Graettinger, Iowa. Cattle-guard. No. 1,017,529; Feb. 13; Sp. p. 2864; Gaz. vol. 175; p. 483.
Gabrielson, Carl, Syracuse, N. Y. Type-writing machine. No. 1,032,131; July 9; Gaz. vol. 180; p. 482.
Gabrielson, Carl, assignor to L. C. Smith and Bros. Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 1,018,968; Feb. 27; Sp. p. 6068; Gaz. vol. 175; p. 1044.
Gäck, Emil. (See Genze and Gäck.)
Gäck, Robert. (See Genze and Gäck.)

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Gadd, Charles J., Lebanon, Pa. Railway-track fastening. No. 1,024,127; Apr. 23; Sp. p. 5077; Gaz. vol. 177; p. 893.

Gadd, Charles J., assignor of forty-nine one-hundredths to E. P. Pyewell, Lebanon, Pa. Tie-plate. No. 1,032,330; July 9; Gaz. vol. 180; p. 552.

Gaddis, Charles G., Olney, Ill. Safety appliance for oil-tanks. No. 1,019,779; Mar. 12; Sp. p. 1671; Gaz. vol. 176; p. 291.

Gade, William H., Iowa Falls, Iowa. Excavating-scoop. No. 1,014,293; Jan. 9; Sp. p. 2671; Gaz. vol. 174; p. 445.

Gadelha, Jacob D., Nova Vista, Comarca de Labrea, Brazil. Latex-hack. No. 1,047,753; Dec. 17; Gaz. vol. 185; p. 753.

Gadomsky, Antony, Tiflis, Russia. Extracting copper from calcined ore or slags. No. 1,014,868; Jan. 16; Sp. p. 3976; Gaz. vol. 174; p. 672.

Gadue, William G., Burlington, Vt. Bottle-stopper. No. 1,039,268; Sept. 24; Gaz. vol. 182; p. 795.

Gaebler, Max H. (See Schultz, Emil W., assignor.)

Gaede, Wolfgang, Freiburg, Breisgau, Germany. High-vacuum rotary pump. No. 1,029,862; June 18; Sp. p. 3923; Gaz. vol. 179; p. 682.

Gaedke, Wilhelm, Hamburg, Germany. Purse. No. 1,044,770; Nov. 19; Gaz. vol. 184; p. 663.

Gaffney, Charles E. (See Pettiford, John R., assignor.)

Gaffney, Patrick J., Toledo, Ohio. Coupling. No. 1,021,833; Apr. 2; Sp. p. 184; Gaz. vol. 177; p. 30.

Gaffney, Richard W. (See Lynt, Frank, assignor.)

Gage, Charles M., Jr., East Pepperell, Mass. Paper drinking-cup. No. 1,039,723; Oct. 1; Gaz. vol. 183; p. 18.

Gage, Edward B., Kahoka, Mo. Can-filling machine. No. 1,038,557; Sept. 17; Gaz. vol. 182; p. 533.

Gage, Jack. (See Hyde and Gage.)

Gage, Oscar S., and T. E. Haskett, Shawnee, Okla. Curtain and drapery support. No. 1,049,073; Dec. 31; Gaz. vol. 185; p. 1269.

Gagé, Severin A., Paris, France. Machine for cutting slices of buttered bread and sandwiches. No. 1,029,357; June 11; Sp. p. 2797; Gaz. vol. 179; p. 472.

Gagné, Augustin, Central Falls, and J. W. Shaw, Pawtucket, R. I., assignors to Blackstone Stocking Company. Circular-knitting machine. No. 1,040,183; Oct. 1; Gaz. vol. 183; p. 171.

Gagnon, Edmond, assignor of one-third to J. L. Perron and one-third to T. Rinfret, Montreal, Canada. Ventilator. No. 1,017,402; Feb. 13; Sp. p. 2591; Gaz. vol. 175; p. 438.

Gagnon, Joseph, Fall River, Mass. Shuttle. No. 1,044,372; Nov. 12; Gaz. vol. 184; p. 493.

Gagnon, William, assignor to The Bryant Electric Company, Bridgeport, Conn. Electrical rosette. No. 1,039,670; Sept. 24; Gaz. vol. 182; p. 935.

Gagnon, William C., Huron, S. D. Ice-tamper. No. 1,048,063; Dec. 24; Gaz. vol. 185; p. 883.

Gahl, Rudolf, Morenci, Ariz. Treating copper ores. No. 1,021,768; Apr. 2; Sp. p. 25; Gaz. vol. 177; p. 7.

Gahl, Rudolf, Morenci, Ariz. Treating ores. No. 1,021,769; Apr. 2; Sp. p. 27; Gaz. vol. 177; p. 8.

Gaide, Albert, Chicago, Ill. Apparatus for drying air. No. 1,024,887; Apr. 30; Sp. p. 6767; Gaz. vol. 177; p. 1191.

Gail, Charles H., assignor, by mesne assignments, to The Simmons Manufacturing Company, Kenosha, Wis. Wire fabric. No. 1,014,699; Jan. 16; Sp. p. 3583; Gaz. vol. 174; p. 613.

Gail, George W., Jr., Baltimore, Md. Sleeping-bag. No. 1,039,509; Sept. 24; Gaz. vol. 182; p. 879.

Gailor, William H., Saratoga Springs, N. Y. Road-oiler. No. 1,038,340; Sept. 10; Gaz. vol. 182; p. 423.

Gain, Felix, Paris, France. Means for ventilating railway and other carriages. No. 1,043,686; Nov. 5; Gaz. vol. 184; p. 226.

Gainer, Edward E., assignor to Z. U. Dodge, New York, N. Y. Ice-making apparatus. No. 1,014,140; Jan. 9; Sp. p. 2339; Gaz. vol. 174; p. 391.

Gaines, Alice W., *et al.*, executors. (See Gaines, Joseph K.)

Gaines, Bert, Dayton, Ohio. Toy. No. 1,018,311; Feb. 20; Sp. p. 4588; Gaz. vol. 175; p. 788.

Gaines, Frederick F., Savannah, Ga. Car-door fastener. No. 1,019,036; Mar. 5; Sp. p. 50; Gaz. vol. 176; p. 11.

Gaines, Frederick F., Savannah, Ga. Flush car-door. No. 1,023,833; Apr. 23; Sp. p. 4410; Gaz. vol. 177; p. 792.

Gaines, Howard W., *et al.*, executors. (See Gaines, Joseph K.)

Gaines, Joseph K., deceased, Glen Echo Heights, Md.; A. W. and H. W. Gaines, executors. Shoe-display form. No. 1,043,762; Nov. 5; Gaz. vol. 184; p. 251.

Gaiser, Charles A., Toledo, Ohio. Lead-sharpener. No. 1,014,141; Jan. 9; Sp. p. 2341; Gaz. vol. 174; p. 392.

Gaiser, Charles A., Toledo, Ohio. Lead. No. 1,027,381; May 21; Sp. p. 5055; Gaz. vol. 178; p. 851.

Gaisman, Henry J., New York, N. Y., assignor to Auto Strop Company. Safety-razor. No. 1,022,726; Apr. 9; Sp. p. 2096; Gaz. vol. 177; p. 360.

Gaisman, Henry J., New York, N. Y., assignor to Auto Strop Company. Razor. No. 1,022,727; Apr. 9; Sp. p. 2102; Gaz. vol. 177; p. 360.

Gaisman, Henry J., assignor to Auto Strop Company, New York, N. Y. Safety-razor. No. 1,022,728; Apr. 9; Sp. p. 2107; Gaz. vol. 177; p. 361.

Gaisman, Henry J., assignor to Auto Strop Company, New York, N. Y. Safety-razor. No. 1,022,729; Apr. 9; Sp. p. 2108; Gaz. vol. 177; p. 361.

Gaisman, Henry J., assignor to Auto Strop Company, New York, N. Y. Safety-razor. No. 1,022,730; Apr. 9; Sp. p. 2110; Gaz. vol. 177; p. 362.

Gaisman, Henry J., assignor to Auto Strop Company, New York, N. Y. Safety-razor. No. 1,022,731; Apr. 9; Sp. p. 2112; Gaz. vol. 177; p. 362.

Gaisman, Henry J., assignor to Auto Strop Company, New York, N. Y. Safety-razor. No. 1,022,732; Apr. 9; Sp. p. 2113; Gaz. vol. 177; p. 362.

Gaisman, Henry J., assignor to Auto Strop Company, New York, N. Y. Razor. No. 1,039,377; Sept. 24; Gaz. vol. 182; p. 833.

Gaither, William H., Thomas, W. Va. Rail-joint. No. 1,039,510; Sept. 24; Gaz. vol. 182; p. 880.

Gaits, Joseph, Jeannette, Pa. Trolley-pole. No. 1,020,411; Mar. 19; Sp. p. 2974; Gaz. vol. 176; p. 539.

Galantiere, David A., Chicago, Ill. Binder. No. 1,047,929; Dec. 24; Gaz. vol. 185; p. 841.

Galarneault, Casimir J. (See White and Barthelemy, assignors.)

Galbraith, Robert M., Pine Bluff, assignor of one-half to A. Prothro, Dermott, Ark. Means for setting well-strainers. No. 1,042,425; Oct. 29; Gaz. vol. 183; p. 1058.

Galbraith, Warren L. (See Utterback, Springer, and Galbraith.)

Galbreath, Robert H., Denver, Colo. Battery for cleaning tarnished metals. No. 1,018,355; Feb. 20; Sp. p. 4663; Gaz. vol. 175; p. 802.

Gale, Albert O., and E. J. Iverson, Seattle, Wash. Coupling. No. 1,041,712; Oct. 15; Gaz. vol. 183; p. 752.

Gale, Anson, Decatur, Ill. Engine stop device. No. 1,038,867; Sept. 17; Gaz. vol. 182; p. 641.

Gale, Ernest L., Sr., Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Brake-magnet protective device. No. 1,014,216; Jan. 9; Sp. p. 2489; Gaz. vol. 174; p. 419.

Gale, Ernest L., Sr., Yonkers, N. Y., assignor to Otis Elevator Company, East Orange, N. J. Current-controlling apparatus. No. 1,048,450; Dec. 24; Gaz. vol. 185; p. 1014.

Gale, Henry P., Chicago, Ill. Metal pulley. No. 1,027,835; May 28; Sp. p. 5999; Gaz. vol. 178; p. 1041.

Gale, John E., *et al.* (See Neil, James A., assignor.)

Gales, Nicholas W., assignor to William Galloway Company, Waterloo, Iowa. Friction-clutch. No. 1,023,249; Apr. 16; Sp. p. 3221; Gaz. vol. 177; p. 576.

Galey, J. J., *et al.* (See Williamson, Newton H., assignor.)

Galigher Machinery Co., The. (See Isbell, John F., assignor.)

Galilé, Julien, Nancy, France. Incandescent gas and like burner. No. 1,018,969; Feb. 27; Sp. p. 6070; Gaz. vol. 175; p. 1044.

Galion Iron Works Company, The. (See Arndt, Franklin E., assignor.)

Galion Iron Works Company. (See Gledhill, Edward C., assignor.)

Gallagher, Edward J. (See Alexander, Jesse, assignor.)

Gallagher, Emma G. (See Gallagher, George S., assignor.)

Gallagher, Francis E., Newton, and H. S. Mork, assignors to Arthur D. Little, Incorporated, Boston, Mass. Producing fermentable sugars. No. 1,033,064; July 16; Gaz. vol. 180; p. 846.

Gallagher, Francis E., Newton, and H. S. Mork, Boston, Mass., assignors to Standard Alcohol Company, New York, N. Y. Producing fermentable sugars. No. 1,037,185; Aug. 27; Gaz. vol. 181; p. 1045.

Gallagher, George F. (See Peddy and Gallagher.)

Gallagher, George S., assignor to E. G. Gallagher, New York, N. Y. Refrigerator. No. 1,018,180; Feb. 20; Sp. p. 4335; Gaz. vol. 175; p. 744.

Gallagher, Hugh E., Portland, Oreg. Sectional molded wood roof-gutter. No. 1,036,090; Aug. 20; Gaz. vol. 181; p. 640.

Gallagher, John, Madison, Wis. Excavator. No. 1,040,304; Oct. 8; Gaz. vol. 183; p. 243.

Gallagher, John C., and H. P. Garvey, Philadelphia, Pa. Combined cooking and heating stove or range. No. 1,016,261; Feb. 6; Sp. p. 37; Gaz. vol. 175; p. 8.

Gallagher, Joseph A., Roscommon, Mich. Stump-puller. No. 1,043,919; Nov. 12; Gaz. vol. 184; p. 338.

Gallagher, Joseph D., Glen Ridge, N. J. Stair-carpet fastener. No. 1,040,661; Oct. 8; Gaz. vol. 183; p. 370.

Gallagher, Joseph D., Glen Ridge, N. J., assignor to E. H. Fallows, trustee, New York, N. Y. Brake-shoe. No. 1,016,262; Feb. 6; Sp. p. 39; Gaz. vol. 175; p. 9.

Gallagher, Richard D., Jr., assignor to Standard Coupler Company, New York, N. Y. Draft-gear for railway-cars. No. 1,017,047; Feb. 13; Sp. p. 1817; Gaz. vol. 175; p. 315.

Gallagher, Richard D., Jr., assignor to Standard Coupler Company, New York, N. Y. Buffing mechanism for railway-cars. No. 1,018,042; Feb. 20; Sp. p. 4020; Gaz. vol. 175; p. 695.

Alphabetical list of patentees—Continued.

Gallagher, Richard W. (See Mead, Bert H., assignor.)
Gallaher, James T., Knobnoster, Mo. Automatic mileage registering and auditing apparatus. No. 1,039,724; Oct. 1; Gaz. vol. 183; p. 18.
Galland, Charles N. (See Brooks and Galland.)
Galland, Walter A., assignor to J. H. Elspass, Denver, Colo. Pulverizing-mill. No. 1,021,981; Apr. 2; Sp. p. 493; Gaz. vol. 177; p. 79.
Gallay, Jean. (See Bachten and Gallay.)
Galletti, Roberto C., Rome, Italy. Method of and apparatus for producing electric oscillations. No. 1,028,204; June 4; Sp. p. 330; Gaz. vol. 179; p. 44.
Gallia, Société Anonyme. (See Perigny, Jean M., assignor.)
Gallinger, Robert O., Seattle, Wash. Marine railway. No. 1,027,720; May 28; Sp. p. 5742; Gaz. vol. 178; p. 1001.
Gallinowsky, Hugo, St. Bernard, Ohio. Treatment of artificial marble. No. 1,022,585; Apr. 9; Sp. p. 1753; Gaz. vol. 177; p. 309.
Gallison, Ernest A., Portland, assignor to Colonial Fast Color Tipping Company, Kittery, Me. Machine for tipping laces. No. 1,030,513; June 25; Sp. p. 5378; Gaz. vol. 179; p. 949.
Gallison, Ernest A., Everett, assignor to Colonial Fast Color Tipping Company, Boston, Mass. Machine for tipping laces. No. 1,030,514; June 25; Sp. p. 5385; Gaz. vol. 179; p. 950.
Gallison, Ernest A., Everett, assignor to Colonial Fast Color Tipping Company, Boston, Mass. Making tipped lacings. No. 1,040,662; Oct. 8; Gaz. vol. 183; p. 370.
Galloway, Charles D., Jr., Elizabeth, N. J. Electric battery. No. 1,035,178; Aug. 13; Gaz. vol. 181; p. 291.
Galloway, David E., Clifton Heights, Pa., assignor to United Shoe Machinery Company, Paterson, N. J. Tip-measuring apparatus. No. 1,024,504; Apr. 30; Sp. p. 5921; Gaz. vol. 177; p. 1057.
Galloway, Frank, Leamington, England. Window-fastener. No. 1,041,713; Oct. 15; Gaz. vol. 183; p. 753.
Galloway, James M., Sunbright, Tenn. Safety railway device. No. 1,029,437; June 11; Sp. p. 2985; Gaz. vol. 179; p. 500.
Gallwan, Thomas J. (See Herbin, Frederic L., assignor.)
Gally, Robert A., assignor to The Baldwin Company, Cincinnati, Ohio. Musical-instrument control-handle. No. 1,033,885; July 30; Gaz. vol. 180; p. 1185.
Gally, Robert A., assignor to The Baldwin Company, Cincinnati, Ohio. Musical-instrument bellows. No. 1,034,098; July 30; Gaz. vol. 180; p. 1261.
Galt, Hugh A., assignor to Columbia Chemical Company, Barberton, Ohio. Utilizing lime-mud in the manufacture of fertilizers. No. 1,016,989; Feb. 13; Sp. p. 1695; Gaz. vol. 175; p. 296.
Galtra, Judson E., Adrian, Minn. Starter for explosive-engines. No. 1,034,966; Dec. 3; Gaz. vol. 185; p. 59.
Galusha, Albert L. (See Whaley and Galusha.)
Galvin, Carroll D., Merchantville, N. J., assignor of one-sixth to A. F. Jorss, one-sixth to C. Jacobsen, and one-sixth to E. S. Cochran, Washington, D. C. Removable rim for vehicle-wheels. No. 1,020,140; Mar. 12; Sp. p. 2409; Gaz. vol. 176; p. 411.
Galvin, Carroll D., Merchantville, N. J., assignor of one-sixth to C. Jacobsen, one-sixth to E. S. Cochran, and one-sixth to A. F. Jorss, Washington, D. C. Resilient wheel. No. 1,021,515; Mar. 26; Sp. p. 5363; Gaz. vol. 176; p. 965.
Galvin, Carroll D., Merchantville, N. J., assignor of one-sixth to C. Jacobsen, one-sixth to E. S. Cochran, and one-sixth to A. F. Jorss, Washington, D. C. Pneumatic tube for vehicle and other wheels. No. 1,023,728; Apr. 16; Sp. p. 4150; Gaz. vol. 177; p. 729.
Galvin, J. W., *et al.* (See Walters, Gustave, assignor.)
Galvin, William H., Omaha, Nebr. Smoking-pipe. No. 1,046,383; Dec. 3; Gaz. vol. 185; p. 204.
Gamage, Harry C., New York, N. Y., assignor to D. P. Company. Dust-guard for car-axle boxes. No. 1,015,551; Jan. 23; Sp. p. 5426; Gaz. vol. 174; p. 930.
Gambill, Charles H., Nashville, Tenn. Car-rerailing frog. No. 1,035,957; Aug. 20; Gaz. vol. 181; p. 594.
Gamble, Blake E., Bowmansdale, Pa. Artificial fuel and making the same. No. 1,047,198; Dec. 17; Gaz. vol. 185; p. 555.
Gamble, Frederick O., assignor to The Packard Company, Fort Wayne, Ind. Action-controller for automatic pianos. No. 1,041,063; Oct. 15; Gaz. vol. 183; p. 536.
Gamble, George R. (See Mack and Gamble.)
Gamble, Joseph W., Carpentersville, Ill. Equalizer connection. No. 1,039,378; Sept. 24; Gaz. vol. 182; p. 833.
Gamble, Joseph W., assignor to Harrison Safety Boiler Works, Philadelphia, Pa. Water-heating system. No. 1,020,755; Mar. 19; Sp. p. 3728; Gaz. vol. 176; p. 654.
Gamble, Salina C., Phoenix, Ariz. Milk-pan. No. 1,043,585; Nov. 5; Gaz. vol. 184; p. 193.
Gamble, Walter H., assignor, by mesne assignments, to Emma Lang Investment Company, Los Angeles, Cal. Mechanism for giving intermittent rotation to a shaft. No. 1,042,905; Oct. 29; Gaz. vol. 183; p. 1225.
Gambrel, Walter C., Tabor, Ill. Car-truck. No. 1,020,276; Mar. 12; Sp. p. 2702; Gaz. vol. 176; p. 458.
Gambrel, Walter C., Tabor, Ill. Automatic time-controlled regulator for gas-engines. No. 1,020,897; Mar. 19; Sp. p. 4018; Gaz. vod. 176; p. 701.
Gambrel, Walter C., Tabor, Ill. Fence-post. No. 1,027,470; May 28; Sp. p. 5238; Gaz. vol. 178; p. 919.
Gamewell Fire-Alarm Telegraph Company, The. (See Cole, Frederick W., assignor.)
Gamewell Fire-Alarm Telegraph Company, The. (See Suren, Nathan H., assignor.)
Gammel, Karl, Cleveland, Ohio. Machine for cutting dried pastes. No. 1,029,059; June 11; Sp. p. 2146; Gaz. vol. 179; p. 370.
Gammelgaard, Ove L., assignor to Electric Chain Company, Attleboro, Mass. Connector for neck-chains. No. 1,027,041; May 21; Sp. p. 4338; Gaz. vol. 178; p. 736.
Gammeter, Harry C., Bratenahl, Ohio. Flying-machine. No. 1,013,152; Jan. 2; Sp. p. 122; Gaz. vol. 174; p. 22.
Gammeter, Harry C., Bratenahl, assignor to The American Multigraph Company, Cleveland, Ohio. Rotatable type-holding mechanism. No. 1,015,760; Jan. 23; Sp. p. 5879; Gaz. vol. 174; p. 1002.
Gammeter, Harry C., Bratenahl, assignor to The American Multigraph Company, Cleveland, Ohio. Address-plate. No. 1,038,868; Sept. 17; Gaz. vol. 182; p. 642.
Gammeter, Harry C., Bratenahl, assignor to The American Multigraph Company, Cleveland, Ohio. Delivery mechanism. No. 1,044,450; Nov. 12; Gaz. vol. 184; p. 519.
Gammeter, Harry C., Bratenahl, assignor to The American Multigraph Company, Cleveland, Ohio. Paper-feeding mechanism. No. 1,047,037; Dec. 10; Gaz. vol. 185; p. 467.
Gammeter, Harry C., Bratenahl, assignor to The American Multigraph Company, Cleveland, Ohio. Inking attachment for printing-machines. No. 1,047,626; Dec. 17; Gaz. vol. 185; p. 708.
Gammeter, Harry C., Bratenahl, assignor to The American Multigraph Company, Cleveland, Ohio. Motor-drive for duplicating-machines. No. 1,048,305; Dec. 24; Gaz. vol. 185; p. 965.
Gammeter, Harry C., Bratenahl, assignor to The American Multigraph Company, Cleveland, Ohio. Composing-stick. No. 1,049,074; Dec. 31; Gaz. vol. 185; p. 1269.
Gammeter, Harry C., Bratenahl, assignor to The American Multigraph Company, Cleveland, Ohio. Duplicating-machine. No. 1,049,323; Dec. 31; Gaz. vol. 185; p. 1354.
Gammeter, Harry C., assignor to The American Multigraph Company, Cleveland, Ohio. Type setting and distributing machine. No. 1,034,099; July 30; Gaz. vol. 180; p. 1261.
Gammeter, John R., Akron, Ohio. Aerostat. No. 1,047,038; Dec. 10; Gaz. vol. 185; p. 467.
Gamon, Ernest E., Newark, N. J. Water-meter. No. 1,015,552; Jan. 23; Sp. p. 5427; Gaz. vol. 174; p. 930.
Gamper, Otto, Münchwilen, Switzerland. Machine for facilitating the packing of magnetic objects of oblong shape. No. 1,014,869; Jan. 16; Sp. p. 3978; Gaz. vol. 174; p. 673.
Gamwell, Charles W., Raleigh, N. C. Rail construction. No. 1,042,545; Oct. 29; Gaz. vol. 183; p. 1100.
Gancher, Abraham I., New York, N. Y. Adding-machine. No. 1,015,307; Jan. 23; Sp. p. 4891; Gaz. vol. 174; p. 847.
Gancher, Abraham I., New York, N. Y. Adding and listing or recording machine. No. 1,047,199; Dec. 17; Gaz. vol. 185; p. 555.
Gandy, Arthur N., Brundidge, Ala. Nut-lock. No. 1,019,243; Mar. 5; Sp. p. 523; Gaz. vol. 176; p. 83.
Gandy, Lee P. (See Boone and Watson, assignors.)
Gane, Cyril E., Normanby, New Zealand. Milking-machine. No. 1,016,004; Jan. 30; Sp. p. 6401; Gaz. vol. 174; p. 1114.
Ganey, Jeremiah, Chicago, Ill. Dumping-wagon. No. 1,030,884; July 2; Gaz. vol. 180; p. 12.
Ganey, Thomas L., East St. Louis, Ill. Fluid-gage. No. 1,039,923; Oct. 1; Gaz. vol. 183; p. 84.
Gangelhoff, Gearhart, Jr., and M. Jordan, Minneapolis, Minn. Bed-spring fabric. No. 1,022,131; Apr. 2; Sp. p. 808; Gaz. vol. 177; p. 128.
Gann, David B. (See Watrous, Edward L., assignor.)
Gannon, Prime E., Jerome, Ariz. Converter-valve. No. 1,034,995; Aug. 6; Gaz. vol. 181; p. 198.
Ganss, William H., Toledo, Ohio. Fastening device. No. 1,022,132; Apr. 2; Sp. p. 810; Gaz. vol. 177; p. 128.
Ganter, Francis X., Baltimore, Md. Show-case. No. 1,024,324; Apr. 23; Sp. p. 5482; Gaz. vol. 177; p. 961.
Gantner, Frederick G., San Francisco, Cal. Office paper-file. No. 1,038,341; Sept. 10; Gaz. vol. 182; p. 423.
Gantt, James T., Macon, Ga. Plow. No. 1,034,354; July 30; Gaz. vol. 180; p. 1349.
Gantt, James T., Macon, Ga. Plow. No. 1,034,355; July 30; Gaz. vol. 180; p. 1350.
Gantt, James T., Macon, Ga. Plow. No. 1,034,356; July 30; Gaz. vol. 180; p. 1350.
Ganyo, Patrick L., Williams, assignor of one-half to E. C. Wetherby, Warroad, Minn. Saw-gage. No. 1,033,392; July 23; Gaz. vol. 180; p. 995.
Ganzhorn, Philip, Chicago, Ill. Rotary cutter. No. 1,033,001; July 16; Gaz. vol. 180; p. 823.

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Ganzley, John, Taintor, Iowa. Gate. No. 1,025,910; May 7; Sp. p. 1794; Gaz. vol. 178; p. 276.
Gapp, John, Scranton, Pa. Pipe-coupling. No. 1,016,620; Feb. 6; Sp. p. 905; Gaz. vol. 175; p. 135.
Gapp, John, Scranton, Pa. Pipe-coupling. No. 1,034,781; Aug. 6; Gaz. vol. 181; p. 128.
Garavagno, Santiago, Montevideo, Uruguay. Desk. No. 1,033,575; July 23; Gaz. vol. 180; p. 1055.
Garbarino, David G., and C. W. Roessle, New York, N. Y. Rethreading-tool. No. 1,017,403; Feb. 13; Sp. p. 2593; Gaz. vol. 175; p. 439.
Garbe, William F., Fort Collins, Colo. Valve head-gate. No. 1,020,974; Mar. 26; Sp. p. 4191; Gaz. vol. 176; p. 779.
Garber, William O., and F. J. Cline, Richmond, Va. Box-printing machine. No. 1,033,390; July 23; Gaz. vol. 180; p. 994.
Garbo, Nils F., Minneapolis, Minn. Manifolding-sales-book holder. No. 1,016,222; Jan. 30; Sp. p. 6830; Gaz. vol. 174; p. 1187.
Garchey, Louis A., Paris, France. Elastic wheel. No. 1,017,259; Feb. 13; Sp. p. 2295; Gaz. vol. 175; p. 390.
Garchey, Louis A., Paris, France. Pneumatic tire for vehicle-wheels. No. 1,026,858; May 21; Sp. p. 3886; Gaz. vol. 178; p. 671.
Garchey, Louis A., Paris, France. Nut-lock. No. 1,036,825; Aug. 27; Gaz. vol. 181; p. 925.
Gard, John W., Kokomo, Ind. Cistern. No. 1,039,924; Oct. 1; Gaz. vol. 183; p. 84.
Gard, Samuel M., Springfield, Ill. Pump-operating device. No. 1,040,305; Oct. 8; Gaz. vol. 183; p. 243.
Garde, Henry, and A. J. Adams, London, England. Electrode of secondary batteries. No. 1,046,288; Dec. 3; Gaz. vol. 185; p. 170.
Garden City Fan Company. (See Green, William W., assignor.)
Gardenhire, Andrew B. (See Biggers, Samuel A., assignor.)
Gardiner, Asa B., Jr., Cockeysville, and R. M. Shaffer, Baltimore, Md. Emulsifying apparatus. No. 1,042,781; Oct. 29; Gaz. vol. 183; p. 1183.
Gardiner, Charles H., Bouton, Iowa. Disk-cultivator attachment. No. 1,045,137; Nov. 26; Gaz. vol. 184; p. 817.
Gardiner, Charles M., Montreal, Quebec, Canada. Safety-lever attachment for power-presses. No. 1,032,397; July 16; Gaz. vol. 180; p. 620.
Gardiner, Giles C., *et al.* (See Duval, Louis R., assignor.)
Gardiner, Hubert, *et al.* (See Hall, William, assignor.)
Gardiner, Lou M., assignor to American Machine Works, Seattle, Wash. Stump-pulling apparatus. No. 1,018,970; Feb. 27; Sp. p. 6073; Gaz. vol. 175; p. 1045.
Gardner, Albert M., Indianapolis, Ind. Electric track-sweeper. No. 1,017,208; Feb. 13; Sp. p. 2186; Gaz. vol. 175; p. 372.
Gardner, Alexander B., Memphis, Tenn. Bottle. No. 1,037,751; Sept. 3; Gaz. vol. 182; p. 192.
Gardner, Alfred F., Leicester, England. Tea and coffee pot and the like. No. 1,038,558; Sept. 17; Gaz. vol. 182; p. 534.
Gardner, Arthur, Wellington, New Zealand. Means for use in cleaning tramway-tracks. No. 1,017,092; Feb. 13; Sp. p. 1936; Gaz. vol. 175; p. 332.
Gardner, Arthur L. (See Hoyler, Gardner, and Foersterling.)
Gardner, Arthur T., Six Bells, England. Device for securing hats, caps, or bonnets to the head. No. 1,047,780; Dec. 17; Gaz. vol. 185; p. 761.
Gardner Crusher Company. (See Boero, Joseph, assignor.)
Gardner, Delamere B., Chicago, Ill. Starter for explosion-engines and self-propelled vehicles. No. 1,037,466; Sept. 3; Gaz. vol. 182; p. 99.
Gardner, Fred. (See Bauer and Gardner.)
Gardner, Frederic E. (See Gardner, Frederick N. and F. E.)
Gardner, Frederick N. and F. E., assignors of one-third to L. W. Thompson, Beloit, Wis. Disk grinder. No. 1,013,760; Jan. 2; Sp. p. 1480; Gaz. vol. 174; p. 234.
Gardner, George B., Haverhill, Mass. Guard for heel-scouring machines. No. 1,029,538; June 11; Sp. p. 3175; Gaz. vol. 179; p. 533.
Gardner, George S., Flemingsburg, Ky. Flood-gate. No. 1,028,566; June 4; Sp. p. 1092; Gaz. vol. 179; p. 166.
Gardner, Harvey W., Springfield, Mo. Burner. No. 1,020,348; Mar. 12; Sp. p. 2833; Gaz. vol. 176; p. 480.
Gardner, Howard S., Newark, N. J. Delivery-chute. No. 1,021,404; Mar. 26; Sp. p. 5121; Gaz. vol. 176; p. 926.
Gardner, Howard S., East Orange, N. J. Chute-closure. No. 1,026,641; May 14; Sp. p. 3398; Gaz. vol. 178; p. 559.
Gardner, Howard S., East Orange, N. J. Conveyer. No. 1,030,296; June 25; Sp. p. 4861; Gaz. vol. 179; p. 870.
Gardner, Howard S., East Orange, N. J. Retarding device for chutes. No. 1,035,871; Aug. 20; Gaz. vol. 181; p. 565.
Gardner, Howard S., East Orange, N. J. Conveyer-hopper. No. 1,036,993; Aug. 27; Gaz. vol. 181; p. 981.
Gardner, Jesse B., Charleston, S. C. Air-brake. No. 1,025,801; May 7; Sp. p. 1518; Gaz. vol. 178; p. 240.
Gardner, John A., Grifton, N. C. Cotton-seed crusher and distributer. No. 1,029,987; June 18; Sp. p. 4182; Gaz. vol. 179; p. 725.
Gardner, Joseph M., Los Angeles, Cal. Draw-bed. No. 1,025,391; May 7; Sp. p. 637; Gaz. vol. 178; p. 99.
Gardner, Martin, Dolgeville, Cal. Piano-hammer molding and gluing machine. No. 1,022,361; Apr. 2; Sp. p. 1264; Gaz. vol. 177; p. 204.
Gardner, May F., Pittsburgh, Pa. Penholder. No. 1,028,704; June 4; Sp. p. 1358; Gaz. vol. 179; p. 212.
Gardner, Norman E., Easton, Pa. Bag-cleaning machine. No. 1,028,014; May 28; Sp. p. 6412; Gaz. vol. 178; p. 1100.
Gardner, Omar N., Jamestown, N. Y. Crane and derrick. No. 1,041,266; Oct. 15; Gaz. vol. 183; p. 605.
Gardner, Rio. (See Burton and Gardner.)
Gardner, Roland, Cleveland, Ohio. Abrading-wheel and mounting therefor. No. 1,020,548; Mar. 19; Sp. p. 3268; Gaz. vol. 176; p. 584.
Gardner, Roland, Cleveland, Ohio. Abrading-wheel. No. 1,027,536; May 28; Sp. p. 5375; Gaz. vol. 178; p. 941.
Gardner, Thomas M., Urbana, Ill. Determining the characteristics of vapor. No. 1,042,782; Oct. 29; Gaz. vol. 183; p. 1183.
Gardner, W. H. (See Williams, Ora W., assignor.)
Gardner, William J. (See Ingram, Atkin M., assignor.)
Gare, Thomas, New Brighton, England. Manufacture, molding, and remolding of india-rubber goods. No. 1,023,729; Apr. 16; Sp. p. 4155; Gaz. vol. 177; p. 729.
Gareis, John G., Philadelphia, Pa. Bookbinding. No. 1,023,466; Apr. 16; Sp. p. 3645; Gaz. vol. 177; p. 647.
Gareis, John G., Philadelphia, Pa. Bookbinding. No. 1,023,834; Apr. 23; Sp. p. 4413; Gaz. vol. 177; p. 793.
Garey, Charles J. (See Murdick and Garey.)
Garey, John A., Mound City, Mo. Mold for bases for telephone and other poles. No. 1,022,231; Apr. 2; Sp. p. 1021; Gaz. vol. 177; p. 163.
Garey, John H., Davenport, Nebr. Pop-cooler. No. 1,021,670; Mar. 26; Sp. p. 5639; Gaz. vol. 176; p. 1014.
Garfinkle, Nathan, Paterson, N. J., assignor to Standard Textile Co. Artificial-feather construction. No. 1,030,072; June 18; Sp. p. 4373; Gaz. vol. 179; p. 754.
Garfinkle, Nathan, Paterson, N. J., assignor to Standard Textile Co. Artificial-astrakhan fabric. No. 1,048,145; Dec. 24; Gaz. vol. 185; p. 913.
Garl, Manious, Akron, Ohio. Hot-water-heater valve. No. 1,040,306; Oct. 8; Gaz. vol. 183; p. 244.
Garland, Albert E., Boston, Mass. Gymnastic apparatus. No. 1,019,037; Mar. 5; Sp. p. 51; Gaz. vol. 176; p. 11.
Garland, Claude M., Collingswood, assignor to Camden Iron Works, Camden, N. J. Gas-producer. No. 1,014,385; Jan. 9; Sp. p. 2892; Gaz. vol. 174; p. 478.
Garland, Harrison W. (See Devlin and Garland.)
Garland, Howard P. (See Balding and Garland.)
Garland, Nathaniel C., Chase City, Va. Hook. No. 1,017,530; Feb. 13; Sp. p. 2865; Gaz. vol. 175; p. 483.
Garland, Thomas H., Chicago, Ill. Ventilator. No. 1,037,890; Sept. 10; Gaz. vol. 182; p. 271.
Garland, Thomas H., Chicago, Ill. Closing device for refrigerator-car doors. No. 1,037,891; Sept. 10; Gaz. vol. 182; p. 272.
Garland, Thomas H., Chicago, Ill. Closing and opening device for refrigerator-car doors. No. 1,037,892; Sept. 10; Gaz. vol. 182; p. 272.
Garland, Thomas H., Chicago, Ill. Door operator and lock. No. 1,037,893; Sept. 10; Gaz. vol. 182; p. 273.
Garland, William L., Llanerch, Pa., assignor to The Safety Car Heating & Lighting Company. Car-heating system. No. 1,032,398; July 16; Gaz. vol. 180; p. 620.
Garlick, Harry U. (See Garlick, Jew, assignor.)
Garlick, Jew, assignor of one-half to H. U. Garlick, Paterson, N. J. Resilient cushion for rear axles. No. 1,016,326; Feb. 6; Sp. p. 206; Gaz. vol. 175; p. 31.
Garlick, Walter J., assignor to N. A. Hover, deceased, (M. Hover, executrix,) and E. Coene, Paterson, N. J. Stop-motion mechanism for warping-machines. No. 1,023,730; Apr. 16; Sp. p. 4155; Gaz. vol. 177; p. 729.
Garling, Charles B. (See Bissell and Garling.)
Garlock Auto Specialty Co. (See Whiting, Herman E., assignor.)
Garlock, William H., Seattle, Wash. Pump for automobile-alarms. No. 1,029,496; June 11; Sp. p. 3096; Gaz. vol. 179; p. 519.
Garlock, William H., Seattle, Wash. Device for preserving piles, &c. No. 1,033,690; July 23; Gaz. vol. 180; p. 1091.
Garman, Levi S., Oxford, N. C. Machine for driving spokes. No. 1,043,586; Nov. 5; Gaz. vol. 184; p. 193.
Garman, Raymond H., Wilmette, Ill. Picture-leaf. No. 1,033,576; July 23; Gaz. vol. 180; p. 1055.
Garner, Ernest P., Drapersville, Va. Plumb-bob. No. 1,026,669; May 21; Sp. p. 3473; Gaz. vol. 178; p. 606.
Garner, James C., Dallas, assignor of one-half to C. S. Reynolds, Houston, Tex. Gin-saw. No. 1,017,637; Feb. 13; Sp. p. 3066; Gaz. vol. 175; p. 516.
Garner, James M., assignor of one-half to D. M. Allen, Columbus Grove, Ohio. Unloading apparatus. No. 1,014,870; Jan. 16; Sp. p. 3981; Gaz. vol. 174; p. 673.
Garner, John H., Kingwood, W. Va. Hot-air heater. No. 1,037,894; Sept. 10; Gaz. vol. 182; p. 273.

Alphabetical list of patentees—Continued.

Garner, Joseph R., and M. R. H. Mueller, Aston, Birmingham, assignors to Electric and Ordnance Accessories Company Limited, Aston, England. Controller for electric motors. No. 1,024,984; Apr. 30; Sp. p. 6962; Gaz. vol. 177; p. 1224.
Garner, Joseph R., and M. R. H. Mueller, Aston, Birmingham, assignors to Electric and Ordnance Accessories Company Limited, Aston, England. Controller for electric motors. No. 1,024,985; Apr. 30; Sp. p. 6969; Gaz. vol. 177; p. 1224.
Garner, Vernon. (See Dexter and Garner.)
Garner, William R., assignor of one-half to E. A. Baird, Pittsburgh, Pa. Oil-cup. No. 1,044,224; Nov. 12; Gaz. vol. 184; p. 442.
Garnett, John N. (See Garnett, Reuben B. and J. N.)
Garnett, Lemuel E., Chanute, Kans. Railway-signal. No. 1,027,382; May 21; Sp. p. 5057; Gaz. vol. 178; p. 851.
Garnett, Reuben B. and J. N., Kansas City, Mo. Mortising-tool. No. 1,031,175; July 2; Gaz. vol. 180; p. 116.
Garrard, Fred, Kimball, Nebr. Subsurface land-packer. No. 1,045,014; Nov. 19; Gaz. vol. 184; p. 746.
Garrard, Fred G., assignor of one-half to W. Alexander, Banner county, Nebr. Vent for well-tubes. No. 1,041,770; Oct. 22; Gaz. vol. 183; p. 809.
Garrard, Willey G., Snyder, Tex. Stovepipe water-heater. No. 1,038,113; Sept. 10; Gaz. vol. 182; p. 346.
Garraway, Lee O., Memphis, Tenn. Folding step-ladder. No. 1,033,391; July 23; Gaz. vol. 180; p. 995.
Garraway, Lee O., Memphis, Tenn. Combined shade-roller and curtain-pole bracket. No. 1,036,091; Aug. 20; Gaz. vol. 181; p. 640.
Garred, Ulysses A., Anaconda, Mont. Hydraulic concentrator. No. 1,031,113; July 2; Gaz. vol. 180; p. 94.
Garret, Jean, Pittsburgh, Pa. Safety-razor. No. 1,023,372; Apr. 16; Sp. p. 3457; Gaz. vol. 177; p. 617.
Garretson, David I., *et al.* (See Anthony, Marcus O., assignor.)
Garrett, Charles A. (See Schoettle and Garrett.)
Garrett, Charles B., Minneapolis, Minn. Automatic sprinkler-head. No. 1,013,545; Jan. 2; Sp. p. 991; Gaz. vol. 174; p. 159.
Garrett-Cromwell Engineering Company, The. (See Cromwell, John C., assignor.)
Garrett, Robert E., Nashville, Tenn. Lathe attachment. No. 1,024,254; Apr. 23; Sp. p. 5361; Gaz. vol. 177; p. 939.
Garrett, Victor. (See Van Ness, Eugene D., assignor.)
Garrett, William R., Chavies, Ala. Saw-set. No. 1,023,835; Apr. 23; Sp. p. 4415; Gaz. vol. 177; p. 793.
Garrigus, Jeptha C., Banks, Oreg. Swingletree. No. 1,037,895; Sept. 10; Gaz. vol. 182; p. 274.
Garrison, Green B., Myrtle, Mo. Agricultural implement. No. 1,039,269; Sept. 24; Gaz. vol. 182; p. 795.
Garrison, Herman, Chicago, Ill. Pneumatic attachment for vehicle-wheels. No. 1,016,558; Feb. 6; Sp. p. 764; Gaz. vol. 175; p. 112.
Garrison, Robert T., Princeton, N. J. Trap-cover. No. 1,014,142; Jan. 9; Sp. p. 2342; Gaz. vol. 174; p. 392.
Garrison, Theodore, Hazleton, Pa. Poultry-feeder. No. 1,026,859; May 21; Sp. p. 3888; Gaz. vol. 178; p. 671.
Garrison, William T., assignor to K. Kearney, Los Angeles, Cal. Car-fender. No. 1,021,143; Mar. 26; Sp. p. 4530; Gaz. vol. 176; p. 835.
Garrity, George F., Scranton, Pa. Steering-head for vehicles. No. 1,026,504; May 14; Sp. p. 3115; Gaz. vol. 178; p. 514.
Garrow, Edward O., Richmond, Vt. Milk-strainer. No. 1,019,954; Mar. 12; Sp. p. 2027; Gaz. vol. 176; p. 350.
Garsden, John H., Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 1,016,686; Feb. 6; Sp. p. 1031; Gaz. vol. 175; p. 157.
Garst, George B., Roanoke, Va. Balanced safety-crane. No. 1,048,520; Dec. 31; Gaz. vol. 185; p. 1077.
Garst, Stephen H., Moline, Ill. Corn-planter. No. 1,038,559; Sept. 17; Gaz. vol. 182; p. 534.
Gartland, Joseph A., *et al.* (See Brodton, Edward R., assignor.)
Gärtner, Hermann, Lintorf, near Dusseldorf, Germany. Annealing-furnace. No. 1,027,471; May 28; Sp. p. 5239; Gaz. vol. 178; p. 919.
Gartner, John H., Pocatello, Idaho. Transom-lifter. No. 1,042,906; Oct. 29; Gaz. vol. 183; p. 1226.
Garton, Cyril S., Sydney, New South Wales, assignor of one-half to V. M. Fitz Hugh, Kerkenin, one-fourth to P. E. Cunningham, and one-fourth to R. Reid, Chidlows Well, Australia. Spark-arrester. No. 1,032,200; July 9; Gaz. vol. 180; p. 508.
Garvey, Christopher A. (See McCauley, Albert J., assignor.)
Garvey, Christopher A., St. Louis, Mo. Marking-pot. No. 1,014,294; Jan. 9; Sp. p. 2672; Gaz. vol. 174; p. 446.
Garvey, Hugh P. (See Gallagher and Garvey.)
Garvin, George K., and E. J. McClellan, New York, N. Y., assignors to The Garvin Machine Company. Hole-grinding machine. No. 1,026,389; May 14; Sp. p. 2870; Gaz. vol. 178; p. 476.
Garvin, George K., and E. J. McClellan, New York, N. Y., assignors to The Garvin Machine Company. Chuck for holding gears. No. 1,036,994; Aug. 27; Gaz. vol. 181; p. 981.
Garvin Machine Company, The. (See Garvin and McClellan, assignors.)
Garvin Machine Company. (See Seddon, Frederick E., assignor.)
Gary, Charles, and J. E. Marshall, New York, N. Y. Truck extension-ladder. No. 1,035,570; Aug. 13; Gaz. vol. 181; p. 427.
Gary, Howland R., Potomac, Va., assignor of one-half to H. H. Cummings, Newton Highlands, Mass. Apparatus for measuring the twist of shafts. No. 1,046,768; Dec. 10; Gaz. vol. 185; p. 379.
Gasau, Otto, New York, N. Y. Attachment for mattress-frames. No. 1,035,571; Aug. 13; Gaz. vol. 181; p. 427.
Gasch, Rudolph A., Seattle, Wash. Alarm-sounding device. No. 1,035,572; Aug. 13; Gaz. vol. 181; p. 427.
Gaskill, Edwin A., Laneville, W. Va. Stake and stake-seat for logging-cars and the like. No. 1,018,818; Feb. 27; Sp. p. 5757; Gaz. vol. 175; p. 993.
Gaskill, Edwin A. and J. F., Laneville, W. Va. Sparbase. No. 1,044,771; Nov. 19; Gaz. vol. 184; p. 663.
Gaskill, Joseph C., assignor to Ames Iron Works, Oswego, N. Y. Governor for steam-engines. No. 1,045,541; Nov. 26; Gaz. vol. 184; p. 961.
Gaskill, Joseph F. (See Gaskill, Edwin A. and J. F.)
Gaskill, Raymond G., Port Deposit, Md. Automobile head-light-turning device. No. 1,014,627; Jan. 9; Sp. p. 3391; Gaz. vol. 174; p. 558.
Gaskin, Floyd W. (See Eddy, Albert J., assignor.)
Gasser, Max, Darmstadt, assignor to Aktiengesellschaft Hahn für Optik und Mechanik, Ihringshausen, near Cassel, Germany. Surveying instrument. No. 1,025,911; May 7; Sp. p. 1796; Gaz. vol. 178; p. 276.
Gast, Adolph W., assignor to Chicago Miniature Lamp Works, Chicago, Ill. Electric light. No. 1,043,821; Nov. 12; Gaz. vol. 184; p. 304.
Gast, Richard, Fechenheim, near Frankfort-on-the-Main, Germany, assignor to Cassella Color Company, New York, N. Y. New cotton-dyestuffs and making same. No. 1,020,756; Mar. 19; Sp. p. 3732; Gaz. vol. 176; p. 655.
Gaston, Horace M. (See Stephens and Gaston.)
Gaston, James E., St. Louis, Mo. Flying-machine. No. 1,013,484; Jan. 2; Sp. p. 858; Gaz. vol. 174; p. 138.
Gatchel, Albert D., Louisville, Ky. Garbage-can holder. No. 1,028,705; June 4; Sp. p. 1359; Gaz. vol. 179; p. 212.
Gatchell, George S., Roselle Park, N. J., assignor to The Singer Manufacturing Company. Work-holder for button-sewing machines. No. 1,036,603; Aug. 27; Gaz. vol. 181; p. 852.
Gatchell, Oren. (See Hornsby, Winsford H., assignor.)
Gategast, William, Philadelphia, Pa. Making patty-shells. No. 1,036,092; Aug. 20; Gaz. vol. 181; p. 641.
Gaterman, William, Manitowoc, Wis. Guard-finger. No. 1,037,141; Aug. 27; Gaz. vol. 181; p. 1030.
Gates, Arthur G., Chicago, Ill. Cuff-fastener. No. 1,017,865; Feb. 20; Sp. p. 3615; Gaz. vol. 175; p. 633.
Gates, Charles E. (See Rich and Gates.)
Gates, Elmer, Chevy Chase, Md., assignor to Germproof Rapid Sand Filtration Company, New York, N. Y. Purifying liquids. No. 1,045,830; Dec. 3; Gaz. vol. 185; p. 12.
Gates, Louis W., West Haven, assignor to C. Cowles & Co., New Haven, Conn. Window-fastener. No. 1,028,452; June 4; Sp. p. 861; Gaz. vol. 179; p. 129.
Gates, Olus, Martin, Tenn. Tobacco hanging and hoisting apparatus. No. 1,015,553; Jan. 23; Sp. p. 5428; Gaz. vol. 174; p. 930.
Gathmann, Emil, New York, N. Y. Ingot-mold. No. 1,019,244; Mar. 5; Sp. p. 524; Gaz. vol. 176; p. 83.
Gathmann, Emil, assignor to Bethlehem Steel Company, South Bethlehem, Pa. Percussion-fuse. (Reissue.) No. 13,439; July 9; Gaz. vol. 180; p. 567.
Gathmann, Emil, assignor to Gathmann Engineering Company, New York, N. Y. Method of and means for stripping ingots. No. 1,039,725; Oct. 1; Gaz. vol. 183; p. 19.
Gathmann Engineering Company. (See Gathmann, Emil, assignor.)
Gathmann, Louis, Washington, D. C. Armor-plate. No. 1,035,573; Aug. 13; Gaz. vol. 181; p. 427.
Gathright, Josiah B., and H. J. Thieman, Louisville, Ky. Stove. No. 1,043,587; Nov. 5; Gaz. vol. 184; p. 193.
Gáti, Béla, Budapest, Austria-Hungary. Alternating-current-measuring device. No. 1,039,925; Oct. 1; Gaz. vol. 183; p. 84.
Gatten, Ulysses S. G., and E. L. Glenn, Newark, Ohio; said Gatten assignor to said Glenn. Clamp. No. 1,036,093; Aug. 20; Gaz. vol. 181; p. 641.
Gattie, Alfred W., London, and A. G. Seaman, Altrincham, England. Apparatus for handling, sorting, and delivering parcels and the like. No. 1,022,935; Apr. 9; Sp. p. 2531; Gaz. vol. 177; p. 431.
Gattone, Domenico, Los Angeles, assignor, by mesne assignments, to S. Stormer, Pasadena, Cal. Attachment for sewing-machines. No. 1,021,671; Mar. 26; Sp. p. 5640; Gaz. vol. 176; p. 1015.
Gauermann, Louis. (See Stewart and Gauermann.)
Gaul, Andrew, Jr. (See Hyde and Gaul.)
Gaul, John, and R. W. Vosburg, Laceyville, Pa. Railway-tie. No. 1,018,755; Feb. 27; Sp. p. 5620; Gaz. vol. 175; p. 972.

Alphabetical list of patentees—Continued.

Gaul, Oscar, Chicago, Ill. Safety appliance for air-craft. No. 1,049,075; Dec. 31; Gaz. vol. 185; p. 1269.
Gaul, William F., Jersey City, N. J., assignor of one-half to E. H. Fahey, Philadelphia, Pa. Tire. No. 1,042,426; Oct. 29; Gaz. vol. 183; p. 1058.
Gaulke, William H., assignor to Independent Electric Mfg. Company, Milwaukee, Wis. Rheostat. No. 1,029,539; June 11; Sp. p. 3177; Gaz. vol. 179; p. 533.
Gault, Frank W., Jr., Louisville, Ky., assignor to F. W. Gault, Jr., Brazing & Manufacturing Company. Gas-burner. No. 1,024,443; Apr. 23; Sp. p. 5736; Gaz. vol. 177; p. 998.
Gault, Harry R. (See Lewis and Powell, assignors.)
Gaultier, Paul, Versailles, France. Instrument for topographical surveying. No. 1,014,143; Jan. 9; Sp. p. 2343; Gaz. vol. 174; p. 392.
Gaumont, Léon. (See Laudet and Gaumont.)
Gaumont, Léon, assignor to Societe des Etablissements Gaumont, Paris, France. Apparatus for coloring kinematographic films. No. 1,035,433; Aug. 13; Gaz. vol. 181; p. 380.
Gaunt, Charles F., and A. Allen, Birmingham, England. Hat-pin-point protector. No. 1,043,415; Nov. 5; Gaz. vol. 184; p. 132.
Gaunt, Joseph S., Manchester, and H. Dyson, Huddersfield, England. Bearing for supporting the fliers and wherves on the bolster-tubes of spinning and doubling machines. No. 1,039,726; Oct. 1; Gaz. vol. 183; p. 19.
Gaus, Wilhelm, assignor to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Reducing indigo coloring-matters. No. 1,027,836; May 28; Sp. p. 6000; Gaz. vol. 178; p. 1041.
Gauss, Thomas A. (See Bowden, William, assignor.)
Gautsch, Conrad, Berlin, Germany. Extinguishing fires in telephone installations. No. 1,023,107; Apr. 9; Sp. p. 2879; Gaz. vol. 177; p. 490.
Gauvin, Avila, Montreal, Quebec, Canada. Automatic weighing-scale. No. 1,029,602; June 18; Sp. p. 3323; Gaz. vol. 179; p. 591.
Gavan, Michael D., St. Louis, Mo. Invalid-bed. No. 1,043,517; Nov. 5; Gaz. vol. 184; p. 170.
Gaveau, Céran, New York, N. Y. X-ray-tube vacuum-controller. No. 1,045,542; Nov. 26; Gaz. vol. 184; p. 961.
Gavelack, Joseph, Monongahela, Pa. Cooling and filtering machine. No. 1,013,761; Jan. 2; Sp. p. 1482; Gaz. vol. 174; p. 234.
Gavin, John E., Buffalo, N. Y. Non-refillable bottle. No. 1,037,611; Sept. 3; Gaz. vol. 182; p. 145.
Gavin, John H., assignor to L. Wolff Manufacturing Company, Chicago, Ill. Combined lavatory and sanitary drinking-cup. No. 1,031,843; July 9; Gaz. vol. 180; p. 388.
Gaw, William C., Cleveland, Ohio. Scaffold. No. 1,018,043; Feb. 20; Sp. p. 4022; Gaz. vol. 175; p. 696.
Gay, Charles, New Haven, Conn. Viaticum cabinet-altar. No. 1,036,604; Aug. 27; Gaz. vol. 181; p. 852.
Gay, Ernest L., *et al.* (See Booth, James A., assignor.)
Gay, Herman T., assignor of one-half to J. G. Hochrein and one-fourth to J. F. Carroll, Baltimore, Md. Electric clock. No. 1,041,771; Oct. 22; Gaz. vol. 183; p. 809.
Gay, Joseph H., Newark, N. J. Leather-splitting machine. No. 1,038,560; Sept. 17; Gaz. vol. 182; p. 534.
Gay, Joseph H., Newark, N. J. Leather-splitting machine. No. 1,038,561; Sept. 17; Gaz. vol. 182; p. 535.
Gayle, Walter W., Montgomery, Ala. Preserved cotton-boll. No. 1,038,562; Sept. 17; Gaz. vol. 182; p. 535.
Gayley, James. (See Walter, Bruce, assignor.)
Gaylor, Charles A., Winchester, Ind. Feed-trough. No. 1,025,392; May 7; Sp. p. 639; Gaz. vol. 178; p. 100.
Gaylor, Leonard B., Stamford, Conn. Antiskid-grip. No. 1,020,489; Mar. 19; Sp. p. 3132; Gaz. vol. 176; p. 565.
Gaylord, Charles H., Chicago, Ill. Adjustable automatic rheostat. No. 1,038,342; Sept. 10; Gaz. vol. 182; p. 423.
Gaylord, Edwin P., Rochester, N. Y. Water-closet. No. 1,033,792; July 30; Gaz. vol. 180; p. 1150.
Gaynor, James C., assignor to Helvetia Silk Mills, Paterson, N. J. Weave. No. 1,037,752; Sept. 3; Gaz. vol. 182; p. 192.
Gaynor, John F., *et al.* (See Doebler, Hugo, assignor.)
Gaynor, John J., E. W. Miller, and C. Remler, Indianapolis, Ind., assignors to Automatic Machinery Company. Feed mechanism for bottling-machines. No. 1,023,074; Apr. 9; Sp. p. 2807; Gaz. vol. 177; p. 478.
Gaynor, Joseph, assignor to Standard Resilient Wheel Co., Inc., New York, N. Y. Resilient vehicle-wheel. No. 1,047,888; Dec. 17; Gaz. vol. 185; p. 799.
Gazzolo, John D., *et al.* (See Ivor, Barry, assignor.)
Gazzolo, Samuel D., assignor of one-half to A. M. Sisson, Joliet, Ill. Folding paper box. No. 1,041,992; Oct. 22; Gaz. vol. 183; p. 886.
Ge Bott, Jay Dell, Onalaska, Tex. Brazing compound. No. 1,037,234; Sept. 3; Gaz. vol. 182; p. 20.
Gearhart, Joseph E., Clearfield, Pa. Insert-jaws for lathe-chucks. No. 1,013,289; Jan. 2; Sp. p. 453; Gaz. vol. 174; p. 70.
Geary, Jane, New Bedford, Mass. Window-curtain rod. No. 1,028,706; June 4; Sp. p. 1362; Gaz. vol. 179; p. 213.
Geary, Walter S., *et al.* (See Kastengren, Gustavus E., assignor.)
Geb, George F., Franklin, Mass. Comb mechanism for carding machinery. No. 1,034,782; Aug. 6; Gaz. vol. 181; p. 128.
Gebauer, Emil G., Chicago, Ill. Car-seal. No. 1,021,244; Mar. 26; Sp. p. 4760; Gaz. vol. 176; p. 869.
Gebauer, Fritz. (See Haas, Lambert, assignor.)
Gebbie, Frank. (See Phelps, Walter J., assignor.)
Gebhard, John W., Muncie, Ind., assignor to Armor Steel & Foundry Company, Chicago, Ill. Hardening steel castings. No. 1,015,554; Jan. 23; Sp. p. 5432; Gaz. vol. 174; p. 931.
Gebhard, John W., Muncie, Ind., assignor to Armor Steel & Foundry Company, Chicago, Ill. Hardening steel castings. No. 1,036,995; Aug. 27; Gaz. vol. 181; p. 982.
Gebhart, Henry, Dayton, Ohio. Indicator for street-cars. No. 1,017,404; Feb. 13; Sp. p. 2595; Gaz. vol. 175; p. 439.
Gebhart, Henry, Dayton, Ohio. Fare-box. No. 1,041,614; Oct. 15; Gaz. vol. 183; p. 717.
Gebhart, James A. (See Maser and Gebhart.)
Gebhart, James A., Wilmington, Del. Beehive. No. 1,042,907; Oct. 29; Gaz. vol. 183; p. 1226.
Gebr. Siemens & Co. (See Egly, Georg, assignor.)
Geddes, James L. (See Dupart and Geddes.)
Geddes, Joseph, Rochester, N. Y. Chimney cap and ventilator. No. 1,019,889; Mar. 12; Sp. p. 1892; Gaz. vol. 176; p. 330.
Gee, Albert, Philadelphia, Pa. Attachment to knitting-machines for ornamenting hosiery. No. 1,014,753; Jan. 16; Sp. p. 3698; Gaz. vol. 174; p. 631.
Gee, Albert, assignor to The Philadelphia Textile Machinery Company, Philadelphia, Pa. Stocking and other fabric drier. No. 1,047,039; Dec. 10; Gaz. vol. 185; p. 468.
Gee, George. (See Clegg and Gee.)
Gee, Munson D., and J. A. Fields, Mount Olive, Ind. Screw-driver. No. 1,015,555; Jan. 23; Sp. p. 5433; Gaz. vol. 174; p. 931.
Gee, Thomas J., Buenos Aires, Argentina. Wind-stacker for threshing-machines. No. 1,031,706; July 9; Gaz. vol. 180; p. 340.
Geels, Herman C., Decatur, Ind. Wind-wheel toy. No. 1,019,245; Mar. 5; Sp. p. 526; Gaz. vol. 176; p. 83.
Geer, Harry R., Johnstown, Pa. Rolling-mill appliance. No. 1,019,315; Mar. 5; Sp. p. 697; Gaz. vol. 176; p. 109.
Geer, Harry R., Johnstown, Pa. Rolling-mill coupling-spindle. No. 1,041,772; Oct. 22; Gaz. vol. 183; p. 810.
Geer, Harry R., Johnstown, Pa. Rolling-mill spindle-coupling. No. 1,041,773; Oct. 22; Gaz. vol. 183; p. 810.
Geest, Karl L. W., Munich, Germany. Airship. No. 1,015,674; Jan. 23; Sp. p. 5694; Gaz. vol. 174; p. 973.
Gefter, Israel and S., Meriden, Conn. Percolator. No. 1,047,402; Dec. 17; Gaz. vol. 185; p. 627.
Gefter, Samuel. (See Gefter, Israel and S.)
Gehr, John H. (See Koontz, Victor R., assignor.)
Gehri, Adolf, Tacoma, Wash. Window. No. 1,049,224; Dec. 31; Gaz. vol. 185; p. 1320.
Gehricke, Otto, Leipzig-Lindenau, Germany. Gearing. No. 1,041,615; Oct. 15; Gaz. vol. 183; p. 718.
Gehrig, William F., assignor to J. A. Dainty, Newark, N. J. Repeating cap-pistol. No. 1,041,267; Oct. 15; Gaz. vol. 183; p. 605.
Gehring, Joseph, *et al.* (See Anderson, James B., assignor.)
Gehring, Joseph C., Pittsburgh, Pa. Gas-burner. No. 1,047,200; Dec. 17; Gaz. vol. 185; p. 555.
Gehrkens, Edward F., Pittsfield, Mass., assignor to General Electric Company. Alternating-current regulator. No. 1,014,821; Jan. 16; Sp. p. 3856; Gaz. vol. 174; p. 655.
Geier, Ernst K., assignor to Duplan Silk Company, Hazleton, Pa. Loom for weaving gauze. No. 1,040,184; Oct. 1; Gaz. vol. 183; p. 172.
Geier, James, assignor to C. Nielsen and H. S. Giles, Troy, N. Y. Ice-cream dipper. No. 1,045,015; Nov. 19; Gaz. vol. 184; p. 747.
Geiger, Alfred C., Glenallen, Va. Weight-motor. No. 1,029,285; June 11; Sp. p. 2629; Gaz. vol. 179; p. 446.
Geiger, John. (See Schwartz and Geiger.)
Geiglein, Henry H., *et al.* (See Sawyer, Edward H., Jr., assignor.)
Geisel, Cristoph J., Mansfield, Ohio. Portable fire-escape. No. 1,025,972; May 14; Sp. p. 1924; Gaz. vol. 178; p. 332.
Geisel, Theodor R., Springfield, Mass. Advertising device. No. 1,021,516; Mar. 26; Sp. p. 5366; Gaz. vol. 176; p. 966.
Geisenhöner, Henry, Schenectady, N. Y., assignor to General Electric Company. Dynamo-electric machine. No. 1,016,005; Jan. 30; Sp. p. 6404; Gaz. vol. 174; p. 1114.
Geisenhöner, Henry, Schenectady, N. Y., assignor to General Electric Company. Welding-machine. No. 1,036,605; Aug. 27; Gaz. vol. 181; p. 853.
Geisenhöner, Henry, Schenectady, N. Y., assignor to F. H. Kelley, Northboro, Mass. Hand screw-clamp. No. 1,034,357; July 30; Gaz. vol. 180; p. 1350.
Geiser, August P. (See Taylor, Alton B., assignor.)
Geiser, August P., Washington, Pa. Curtain-pole. No. 1,029,358; June 11; Sp. p. 2801; Gaz. vol. 179; p. 472.

Alphabetical list of patentees—Continued.

Geiser Manufacturing Company, The. (See Anderson, Gustaf A., assignor.)
Geish, Christ. (See Wilker, Henry J., assignor.)
Geisler, Leo W., Jr., New York, N. Y. Treatment of coffee. No. 1,015,271; Jan. 16; Sp. p. 4801; Gaz. vol. 174; p. 808.
Geissinger, Harry G., assignor to Geissinger Regulator Company, New York, N. Y. Compensating system of temperature control. No. 1,022,188; Apr. 2; Sp. p. 921; Gaz. vol. 177; p. 147.
Geissinger, Harry G., assignor to Geissinger Regulator Company, New York, N. Y. Remote temperature control. No. 1,022,189; Apr. 2; Sp. p. 924; Gaz. vol. 177; p. 148.
Geissinger Regulator Company. (See Geissinger, Harry G., assignor.)
Geissler, Adalbert, assignor to Firm of J. W. Erkens, Niederau, near Düren, Germany. Manufacturing very extensible paper. No. 1,018,897; Feb. 27; Sp. p. 5907; Gaz. vol. 175; p. 1019.
Geissler, Johannes, Dresden, Germany. Friction-gearing. No. 1.036,606; Aug. 27; Gaz. vol. 181; p. 853.
Geist, Charles A., Oklahoma, Okla. Ratchet-wrench. No. 1,041,064; Oct. 15; Gaz. vol. 183; p. 536.
Geiszler Starting Device Co. (See Muntz, Raymond H., assignor.)
Gelbaugh, William H., Denver, Colo. Gage. No. 1,031,995; July 9; Gaz. vol. 180; p. 438.
Gelder, Joseph E., New York, N. Y. Pocket-humidor. No. 1,038,563; Sept. 17; Gaz. vol. 182; p. 535.
Gelien, Gustave A., San Francisco, Cal. Lifting mechanism for mullers of ore-grinding pans. No. 1,029,863; June 18; Sp. p. 3924; Gaz. vol. 179; p. 683.
Gelin, John, Chicago, Ill. Safety-razor. No. 1,017,866; Feb. 20; Sp. p. 3616; Gaz. vol. 175; p. 633.
Gell, John, London, England. Apparatus for perforating tape for automatic telegraph instruments, &c. No. 1,038,343; Sept. 10; Gaz. vol. 182; p. 424.
Gelpke, Victor, Brunswick, Germany. Turbine. No. 1,035,116; Aug. 6; Gaz. vol. 181; p. 237.
Gem Manufacturing Company. (See Libbman, Louis, assignor.)
Gemeinhardt, John. (See Kevitt and Gemeinhardt.)
Gemmer, Walter S. (See Morse and Gemmer.)
Gemmill, James I., Orrville, Ohio. Automatic graphophone of the disk-record type. No. 1,028,707; June 4; Sp. p. 1362; Gaz. vol. 179; p. 213.
Gems, Julius F., Hampstead, London, England. Garment-form. No. 1,019,449; Mar. 5; Sp. p. 1025; Gaz. vol. 176; p. 150.
Gemunder, Frederick J., Philadelphia, Pa. Shield or protector for stop-cocks. No. 1,037,612; Sept. 3; Gaz. vol. 182; p. 145.
Gendron, Joseph A., Nashua, N. H. Shuttle-motion for looms. No. 1,036,483; Aug. 20; Gaz. vol. 181; p. 777.
Gendron Wheel Company. (See Diemer, William, assignor.)
Gendron Wheel Company. (See Nauts, Frank A., assignor.)
General Bakelite Company. (See Baekeland, Leo H., assignor.)
General Bakelite Company. (See Baekeland and Thurlow, assignors.)
General Charcrete Company. (See Stinebaugh, Conrad O., assignor.)
General Chemical Company. (See Briggs, Thomas L., assignor.)
General Chemical Company. (See Briggs and Merriam, assignors.)
General Chemical Company. (See De Jahn, Fredrik W., assignor.)
General Chemical Company. (See Eschellmann and Harmuth, assignors.)
General Chemical Company. (See Nield, John H., assignor.)
General Chemical Company. (See Schultze, William, assignor.)
General Chemical Company. (See Strickler, Emerson H., assignor.)
General Dehydrator Company. (See Harris and Pollard, assignors.)
General Electric Company. (See Alexanderson, Ernst F. W., assignor.)
General Electric Company. (See Alquist, Karl, assignor.)
General Electric Company. (See Andrews, William S., assignor.)
General Electric Company. (See Arons and Fuss, assignors.)
General Electric Company. (See Arsem, William C., assignor.)
General Electric Company. (See Arthur, Walter, assignor.)
General Electric Company. (See Axelrod, Salomon, assignor.)
General Electric Company. (See Bailey, Percy S., assignor.)
General Electric Company. (See Baker, Isaac F., assignor.)
General Electric Company. (See Baldauf and Presser, assignors.)
General Electric Company. (See Ball, Henry P., assignor.)
General Electric Company. (See Barringer, Lawrence E., assignor.)
General Electric Company. (See Barringer and Wright, assignors.)
General Electric Company. (See Bassler, Kurt, assignor.)
General Electric Company. (See Batchelder, Asa F., assignor.)
General Electric Company. (See Bechoff, Ferdinand, assignor.)
General Electric Company. (See Beckwith, Edward P., assignor.)
General Electric Company. (See Beechlyn, John T., assignor.)
General Electric Company. (See Bentley, Fred W., assignor.)
General Electric Company. (See Berry, Edward R., assignor.)
General Electric Company. (See Blondel, André, assignor.)
General Electric Company. (See Blondel and Dobkevitch, assignors.)
General Electric Company. (See Bolton, Werner von, assignor.)
General Electric Company. (See Bresler, Harry, assignor.)
General Electric Company. (See Bresler, Harry W., assignor.)
General Electric Company. (See Brobst, John E., assignor.)
General Electric Company. (See Burrows, William R., assignor.)
General Electric Company. (See Button, Arnold E., assignor.)
General Electric Company. (See Callan, John G., assignor.)
General Electric Company. (See Carichoff, Eugene R., assignor.)
General Electric Company. (See Carman, Oscar, assignor.)
General Electric Company. (See Case, Frank E., assignor.)
General Electric Company. (See Clark, Wallace S., assignor.)
General Electric Company. (See Clinker, Reginald C., assignor.)
General Electric Company. (See Clough, Frederick H., assignor.)
General Electric Company. (See Connell, Howard R., assignor.)
General Electric Company. (See Coolidge, William D., assignor.)
General Electric Company. (See Creighton, Elmer E. F., assignor.)
General Electric Company. (See Crissey, Clarence P., assignor.)
General Electric Company. (See Cubelic, Ludwig, assignor.)
General Electric Company. (See Cubitt, Archibald S., assignor.)
General Electric Company. (See Curtis, Charles G., assignor.
General Electric Company. (See Day, Maxwell W., assignor.)
General Electric Company. (See De Reamer, Frank C., assignor.)
General Electric Company. (See Dempster, John T., assignor.)
General Electric Company. (See Dempster, John T. H., assignor.)
General Electric Company. (See Dempster, Leonard E., assignor.)
General Electric Company. (See Dorgeloh, George H., assignor.)
General Electric Company. (See Dunning, Parker, assignor.)
General Electric Company. (See Eaton, John, assignor.)
General Electric Company. (See Ellis, Alvarado L., assignor.)
General Electric Company. (See Entz, Justus B., assignor.)
General Electric Company. (See Ernst, Charles A., assignor.)
General Electric Company. (See Farquhar, Edmund H., assignor.)
General Electric Company. (See Ferguson, Samuel, assignor.)
General Electric Company. (See Fink, Colin G., assignor.)
General Electric Company. (See Fisher, Wilbur H., assignor.)
General Electric Company. (See Fleming, Richard, assignor.)
General Electric Company. (See Fleming and Guay, assignors.)
General Electric Company. (See Forner, Georg, assignor.)
General Electric Company. (See Forster, Frank T., assignor.)
General Electric Company. (See Foster, William J., assignor.)
General Electric Company. (See Franklin, Milton W., assignor.)

Alphabetical list of patentees—Continued.

General Electric Company. (See Frost, William H., assignor.)
General Electric Company. (See Fuller, Carl T., assignor.)
General Electric Company. (See Gehrkens, Edward F., assignor.)
General Electric Company. (See Geisenhöner, Henry, assignor.)
General Electric Company. (See Gillette, John C., assignor.)
General Electric Company. (See Glaser, Ludwig, assignor.)
General Electric Company. (See Graf, Fritz, assignor.)
General Electric Company. (See Graybill, John E., assignor.)
General Electric Company. (See Graybill and McJunkin, assignors.)
General Electric Company. (See Guay, Emile J., assignor.)
General Electric Company. (See Guillot, Frank, assignor.)
General Electric Company. (See Hall, John L., assignor.)
General Electric Company. (See Halvorson, Cromwell A. B., Jr., assignor.)
General Electric Company. (See Hamilton, Brace H., assignor.)
General Electric Company. (See Hanaman, Franz, assignor.)
General Electric Company. (See Hand, Daniel, assignor.)
General Electric Company. (See Hanna, Max R., assignor.)
General Electric Company. (See Hansen, Charles A., assignor.)
General Electric Company. (See Härdén, Johannes, assignor.)
General Electric Company. (See Hardman, William H., assignor.)
General Electric Company. (See Haskins, Caryl D., assignor.)
General Electric Company. (See Hastings and Wise, assignors.)
General Electric Company. (See Hawkins, Laurence A., assignor.)
General Electric Company. (See Hayden, Joseph L., assignor.)
General Electric Company. (See Hayden, Joseph L. R., assignor.)
General Electric Company. (See Hewlett, Edward M., assignor.)
General Electric Company. (See Hill, George H., assignor.)
General Electric Company. (See Hitchcock, Frederick S., assignor.)
General Electric Company. (See Hixson, Clinton J., assignor.)
General Electric Company. (See Hottenroth, Alban, assignor.)
General Electric Company. (See Howell, Fred B., assignor.)
General Electric Company. (See Howell, John W., assignor.)
General Electric Company. (See Hunter, Matthew A., assignor.)
General Electric Company. (See Hurwitz, Eugen, assignor.)
General Electric Company. (See Jacobs, Ernest H., assignor.)
General Electric Company. (See Johannesen, Svend E., assignor.)
General Electric Company. (See Johnson, Werner, assignor.)
General Electric Company. (See Jones, Allen G., assignor.)
General Electric Company. (See Junggren and Dickinson, assignors.)
General Electric Company. (See Junggren and Gray, assignors.)
General Electric Company (See Just and Hanaman, assignors.)
General Electric Company. (See Kastner, Franz, assignor.)
General Electric Company. (See Keller, Huldreich, assignor.)
General Electric Company. (See Key, James F., assignor.)
General Electric Company. (See Kieser, Walter, assignor.)
General Electric Company. (See Kingwell, Kenneth F., assignor.)
General Electric Company. (See Kingwell, Kenneth F., assignor.) (Reissue.)
General Electric Company. (See Knight, Charles D., assignor.)
General Electric Company. (See Knight and Lum, assignors.)
General Electric Company. (See Krämer, Bernhard, assignor.)
General Electric Company. (See Krämer, Christian, assignor.)
General Electric Company. (See Kraus, Ernest, assignor.)
General Electric Company. (See Krause, Edmund, assignor.)
General Electric Company. (See Krause, Otto, assignor.)
General Electric Company. (See Kroner, Frank A., assignor.)
General Electric Company. (See Kruh, Osias O., assignor.)
General Electric Company. (See Kuhlmann and Müller, assignors.)
General Electric Company. (See Kužel, Hans, assignor.)
General Electric Company. (See Lasche, Oscar, assignor.)
General Electric Company. (See Latour, Marius C. A., assignor.)
General Electric Company. (See Lemp, Hermann, assignor.)
General Electric Company. (See Libby, Sam H., assignor.)
General Electric Company. (See Loewenstein, Louis C., assignor.)
General Electric Company. (See Loewenstein and Dyer, assignors.)
General Electric Company. (See McClair, Charles, assignor.)
General Electric Company. (See McLain, Robert H., assignor.)
General Electric Company. (See McWhirter, John S., assignor.)
General Electric Company. (See Merritt, Matthew M., assignor.)
General Electric Company. (See Metzger, Amandus, assignor.)
General Electric Company. (See Miller, David, assignor.)
General Electric Company. (See Miller, Robert, Jr., assignor.)
General Electric Company. (See Mix, Edgar W., assignor.)
General Electric Company. (See Moody, Walter S., assignor.)
General Electric Company. (See Moore, Daniel M., assignor.)
General Electric Company. (See Moss, Sanford A., assignor.)
General Electric Company. (See Murphy and Eaton, assignors.)
General Electric Company. (See Naumann, Wilhelm, assignor.)
General Electric Company. (See Noeggerath, Jakob E., assignor.)
General Electric Company. (See Nowell, Thomas W., assignor.)
General Electric Company. (See Paine, Sidney B., assignor.)
General Electric Company. (See Pape, Wilhelm, assignor.)
General Electric Company. (See Parkhurst, Leon F., assignor.)
General Electric Company. (See Parshall, Horace F., assignor.)
General Electric Company. (See Pauly, Karl A., assignor.)
General Electric Company. (See Peek, Frank W., Jr., assignor.)
General Electric Company. (See Pforr, Philipp, assignor.)
General Electric Company. (See Pigott, Stephen J., assignor.)
General Electric Company. (See Potter, William B., assignor.)
General Electric Company. (See Pratt, Alphonso C., assignor.)
General Electric Company. (See Pratt, William H., assignor.)
General Electric Company. (See Price, Edgar, assignor.)
General Electric Company. (See Priest, Edward D., assignor.)
General Electric Company. (See Rice, Richard H., assignor.)
General Electric Company. (See Rice, Walter F., assignor.)
General Electric Company. (See Rice and Larkin, assignors.)
General Electric Company. (See Rice and Moss, assignors.)
General Electric Company. (See Riddell, John, assignor.)
General Electric Company. (See Robinson, Edward W., assignor.)
General Electric Company. (See Ross, Oscar A., assignor.)
General Electric Company. (See Rupley, George H., assignor.)
General Electric Company. (See Ryan, Walter D., assignor.)
General Electric Company. (See Sahlin, Henning G., assignor.)
General Electric Company. (See Samuelson, Frederick, assignor.)
General Electric Company. (See Sargent, Howard R., assignor.)
General Electric Company. (See Schmidt, Louis M., assignor.)
General Electric Company. (See Schröter, Karl, assignor.)

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General Electric Company. (See Seede, John A., assignor.)
General Electric Company. (See Skaupy, Franz, assignor.)
General Electric Company. (See Smith, Henry L., assignor.)
General Electric Company. (See Stanley, William, assignor.)
General Electric Company. (See Steinmetz, Charles P., assignor.)
General Electric Company. (See Stevens, George E., assignor.)
General Electric Company. (See Strohbach, Fritz, assignor.)
General Electric Company. (See Suman, Ruppert W., assignor.)
General Electric Company. (See Sutton, William S., assignor.)
General Electric Company. (See Thomson, Elihu, assignor.)
General Electric Company. (See Tirrill, Allen A., assignor.)
General Electric Company. (See Tritle, John F., assignor.)
General Electric Company. (See Troger, Richard, assignor.)
General Electric Company. (See Troy, Matthew O., assignor.)
General Electric Company. (See Van Aller, Tycho, assignor.)
General Electric Company. (See Van Brunt, Charles, assignor.)
General Electric Company. (See Vogel, Frederick M., assignor.)
General Electric Company. (See Wagner, Paul, assignor.)
General Electric Company. (See Webster, Carroll J., assignor.)
General Electric Company. (See Weicker, William H., assignor.)
General Electric Company. (See Weintraub, Ezechiel, assignor.)
General Electric Company. (See Weintraub, George, assignor.)
General Electric Company. (See Weintraub and Latour, assignors.)
General Electric Company. (See Wheeler, Horace, assignor.)
General Electric Company. See White, Harold E., assignor.)
General Electric Company. (See Whiting, Max A., assignor.)
General Electric Company. (See Whitney, Willis R., assignor.)
General Electric Company. (See Wiard, John B., assignor.)
General Electric Company. (See Wiler, Carl, assignor.)
General Electric Company. (See Wilkinson, James, assignor.)
General Electric Company. (See Winkler, Otto, assignor.)
General Electric Company. (See Winston, Earle G., assignor.)
General Electric Company. (See Winter and Eichberg, assignors.)
General Electric Company. (See Wood, Howard I., assignor.)
General Electric Company. (See Wright, Gilbert, assignor.)
General Electric Company. (See Zimmer, Paul, assignor.)
General Electric Company. (See Zweigbergk, Thorsten von, assignor.)
General Fire Extinguisher Company. (See Grinnell, Russell, assignor.)
General Fire Extinguisher Company. (See Hammond, Wilberforce B., assignor.)
General Fireproofing Company, The. (See Herbert, Arthur W., assignor.)
General Fireproofing Company, The. (See Schaffert, Adolf H., assignor.)
General Fireproofing Company, The. (See White, Herbert E., assignor.)
General Gas Light Company. (See Humphrey, Frederick J. and H. R., assignors.)
General Manifold and Printing Company, The. (See Lewis, Edward Z., assignor.)
General Railway Signal Company. (See Christofferson, Christian A., assignor.)
General Railway Signal Company. (See Henry, William S., assignor.)
General Railway Signal Company. (See Howe, Winthrop K., assignor.)
General Reduction Company. (See Neuberger and Bergh, assignors.)
General Specialty Company. (See Gregg, Robert E., assignor.)
General Sterilizing Company. (See Mollinger, Théodore G., assignor.)
Geno, Samuel, *et al.* (See Graves, Eugene A., assignor.)
Genossenschaft für Textilpatente. (See Marazzi, Adolf, assignor.)
Gensecke, Wilhelm. (See Josse and Gensecke.)
Gensmer, Theodore, assignor of one-half to J. W. Hurley, Portland, Oreg. Mechanical toy. No. 1,020,691; Mar. 19; Sp. p. 3587; Gaz. vol. 176; p. 631.
Gensmer, Theodore, assignor of one-half to J. W. Hurley, Portland, Oreg. Horse-releasing device. No. 1,043,920; Nov. 12; Gaz. vol. 184; p. 338.
Genth, Charles H., Philadelphia, Pa. Elastic tire for wheels. No. 1,045,543; Nov. 26; Gaz. vol. 184; p. 962.
Genth, Charles H., Philadelphia, Pa. Wheel-tire. No. 1,045,544; Nov. 26; Gaz. vol. 184; p. 962.
Genthner, Charles M., assignor to Culter & Proctor Stove Co., Peoria, Ill. Cook stove or range. No. 1,039,511; Sept. 24; Gaz. vol. 182; p. 880.
Gentle, Cuthbert, Dorchester, Mass. Capsuling device. No. 1,038,869; Sept. 17; Gaz. vol. 182; p. 642.
Gentle, William M., Greenwood, Ind. Carbureter. No. 1,033,886; July 30; Gaz. vol. 180; p. 1185.
Gentle, William M., Greenwood, and J. K. Cooper, Indianapolis, Ind. Wheeled scraper. No. 1,021,517; Mar. 26; Sp. p. 5367; Gaz. vol. 176; p. 966.
Gentless, James, Philadelphia, Pa. Car-fender. No. 1,042,908; Oct. 29; Gaz. vol. 183; p. 1227.
Gentry, John H., Greentown, Ind. Valve-gear. No. 1,015,308; Jan. 23; Sp. p. 4894; Gaz. vol. 174; p. 847.
Gentry, John H., Greentown, Ind. Valve-gear. No. 1,022,232; Apr. 2; Sp. p. 1023; Gaz. vol. 177; p. 163.
Genze, Hugo, E. and R. Gäck, Gross Auheim-on-the-Main, Germany. Belt-cutting machine. No. 1,021,309; Mar. 26; Sp. p. 4885; Gaz. vol. 176; p. 892.
Genzel, Charlie T., Wimbledon, N. D. Steering mechanism. No. 1,043,088; Nov. 5; Gaz. vol. 184; p. 14.
Geo. Borgfeldt & Co. (See Schönherz, Isaak, assignor.)
Geoffroy, Joseph. (See Fortier, George, assignor.)
Geoffroy, Raymond, Arctic, R. I. Pipe-wrench. No. 1,019,450; Mar. 5; Sp. p. 1027; Gaz. vol. 176; p. 151.
Geoghegan, Stewart A., Baltimore, Md. Dredging channels. No. 1,015,170; Jan. 16; Sp. p. 4586; Gaz. vol. 174; p. 775.
Georg, Otto, Ilbeshausen, Germany. Plow. No. 1,038,870; Sept. 17; Gaz. vol. 182; p. 642.
George, Alfred K., Kansas City, Mo. Carbureter. No. 1,048,954; Dec. 31; Gaz. vol. 185; p. 1227.
George, Charles A., Springfield, Ill. Wire-splicer. No. 1,048,521; Dec. 31; Gaz. vol. 185; p. 1078.
George, Cortis K., and T. J. Murphy, assignors of one-third to J. T. Murphy, Milford, N. H. Sharpening device for bush-hammers. No. 1,045,016; Nov. 19; Gaz. vol. 184; p. 747.
George D. Whitcomb Company. (See Eckert and Whitcomb, assignors.)
George E. Belcher Last Company. (See Reinhardt, Louis W., assignor.)
George G. Fox Company. (See MacDonald, Wilson P., assignor.)
George H. Cahoone Company. (See Cahoone, George H., assignor.)
George, James H., New York, N. Y., assignor to National Steel Barrel Company. Metallic barrel. (Reissue.) No. 13,414; May 7; Sp. p. 1895; Gaz. vol. 178; p. 291.
George, Jerome R. (See Edwards and George.)
George, John E. (See Lane and George.)
George, John H., assignor to Hawthorne Manufacturing Company, Incorporated, Bridgeport, Conn. Lamp. No. 1,027,196; May 21; Sp. p. 4681; Gaz. vol. 178; p. 787.
George Mail Device Company. (See George, Marion N., assignor.)
George, Marion N., Irondale, assignor to George Mail Device Company, Inc., Birmingham, Ala. Mail-bag catcher. No. 1,019,629; Mar. 5; Sp. p. 1380; Gaz. vol. 176; p. 210.
George, Marion N., Irondale, assignor to George Mail Device Company, Inc., Birmingham, Ala. Mail-bag-receiving apparatus. No. 1,040,307; Oct. 8; Gaz. vol. 183; p. 244.
George, Morton A., Bishop, Cal. Detachable hinge for windows. No. 1,021,245; Mar. 26; Sp. p. 4760; Gaz. vol. 176; p. 869.
George, Thomas J., Englewood, N. J. Building construction. No. 1,013,385; Jan. 2; Sp. p. 655; Gaz. vol. 174; p. 104.
George W. Jackson Manufacturing Company. (See Jackson, George W., assignor.)
George W. Payne Company. (See Gridley, Benjamin, assignor.)
George, William H., Dexter, Iowa. Driving mechanism. No. 1,030,993; July 2; Gaz. vol. 180; p. 50.
Georgeff, Evan, Portland, Oreg. Sash-balancing mechanism. No. 1,023,731; Apr. 16; Sp. p. 4158; Gaz. vol. 177; p. 730.
Georges, Henri. (See Valentin, Zerreiss, and Georges.)
Georgeson, Peter J., Tustin, Wis. Pulley-block. No. 1,022,411; Apr. 9; Sp. p. 1371; Gaz. vol. 177; p. 251.
Gerahty, James D., and J. E. Hager, New York, N. Y. Bottle-stopper. No. 1,041,774; Oct. 22; Gaz. vol. 183; p. 810.
Gerald, August P., Jersey City, N. J. Tool for spreading boiler-tubes. No. 1,014,459; Jan. 9; Sp. p. 3029; Gaz. vol. 174; p. 502.
Gerard, Frazer, St. Paul, Minn. Ventilating device. No. 1,048,064; Dec. 24; Gaz. vol. 185; p. 884.

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Gerard, Roy H., Berkeley, Cal. Variable-speed-transmission gearing. No. 1,048,065; Dec. 24; Gaz. vol. 185; p. 884.
Geraty, George C., Chicago, Ill. Music-filing cabinet. No. 1,033,793; July 30; Gaz. vol. 180; p. 1151.
Gerber, Arthur U. (See Mock, Gerber, and Cordell.)
Gerber, Emanuel, Kansas City, Mo. Combined shade-roller and curtain-hanger. No. 1,015,309; Jan. 23; Sp. p. 4895; Gaz. vol. 174; p. 848.
Gerber, Emanuel, Kansas City, Mo. Flying-tent. No. 1,039,117; Sept. 24; Gaz. vol. 182; p. 740.
Gerbovich, Joseph. (See Farkas, Kálmán, assignor.)
Gerdes, August, Gretna, La. Cane-harvester. No. 1,022,313; Apr. 2; Sp. p. 1163; Gaz. vol. 177; p. 187.
Gerdes, Charles W., Mound Valley, Kans. Riding attachment for cultivators. No. 1,017,209; Feb. 13; Sp. p. 2188; Gaz. vol. 175; p. 372.
Gerdes, Charles W., Mound Valley, Kans. Road-grader. No. 1,047,781; Dec. 17; Gaz. vol. 185; p. 761.
Gerdum, Albert, Lakewood, Ohio. Pipe-attaching means for registers, ventilators, &c. No. 1,044,513; Nov. 19; Gaz. vol. 184; p. 571.
Gerelds, Benjamin F., Tecumseh, Okla. Wear attachment for wagons. No. 1,015,795; Jan. 30; Sp. p. 5956; Gaz. vol. 174; p. 1042.
Gergely, Albert, Milwaukee, Wis. Guard for overhead trolley-wires. No. 1,048,066; Dec. 24; Gaz. vol. 185; p. 885.
Gergely, Phillipps, Monongahela, Pa. Bottle-closure. No 1,015,675; Jan. 23; Sp. p. 5696; Gaz. vol. 174; p. 973.
Gerhardt, John, assignor to C. K. Fotheringham and A. R. Laing, Montreal, Quebec, Canada. Advertising device. No. 1,035,574; Aug. 13; Gaz. vol. 181; p. 428.
Gerhart, John A., Marietta, Ohio. Vehicle wheel-tire. No. 1,037,753; Sept. 3; Gaz. vol. 182; p. 192.
Gerkin, Louis C., Farina, Ill. Rail-fastener and tie. No. 1,046,171; Dec. 3; Gaz. vol. 185; p. 128.
Gerlach, Albert, Nordhausen, Germany. Drying apparatus. No. 1,015,796; Jan. 30; Sp. p. 5957; Gaz. vol. 174; p. 1042.
Gerlach, George. (See Saurenmann, Jacob G., assignor.)
Gerlach, Gustav, Carrick, Pa. Mortising-machine. No. 1,023,306; Apr. 16; Sp. p. 3337; Gaz. vol. 177; p. 596.
Gerlemann, Ferdinand M., and J. E. Klemmer, St. Lucas; said Klemmer assignor to said Gerlemann, Fort Atkinson, Iowa. Water-heater. No. 1,045,545; Nov. 26; Gaz. vol. 184; p. 962.
Gerli, Paul, New York, N. Y. Steam-engine. No. 1,037,467; Sept. 3; Gaz. vol. 182; p. 99.
Gerli, Paul, and G. Blenio, New York, N. Y. Apparatus for purifying the exhaust of internal-combustion engines. No. 1,032,536; July 16; Gaz. vol. 180; p. 666.
Gerlinger, Carl F., Dallas, Oreg. Water-gage. No. 1,042,427; Oct. 29; Gaz. vol. 183; p. 1059.
German American Car Company, The. (See Epstein, Max, assignor.)
German, Arthur A., Duluth, Minn. Gun-sight. No. 1,016,883; Feb. 6; Sp. p. 1428; Gaz. vol. 175; p. 222.
German, Solomon, Unionville, Md. Glove-fastener. No. 1,047,782; Dec. 17; Gaz. vol. 185; p. 762.
German, Solomon, Unionville, Md. Corn-husking machine. No. 1,047,783; Dec. 17; Gaz. vol. 185; p. 762.
German, William S., *et al.* (See Nill, John B., assignor.)
Germon, Frank, Edwards, Colo. Grate. No. 1,045,276; Nov. 26; Gaz. vol. 184; p. 866.
Germonprez, John A., assignor of one-third to J. L. Schneider and one-third to W. J. Wirts, Detroit, Mich. Engine-starter. No. 1,039,118; Sept. 24; Gaz. vol. 182; p. 741.
Germproof Rapid Sand Filtration Company. (See Gates, Elmer, assignor.)
Gernsback, Hugo, New York, N. Y. Combined electric hair brush and comb. No. 1,016,138; Jan. 30; Sp. p. 6680; Gaz. vol. 174; p. 1161.
Gernsback, Hugo, New York, N. Y. Rotary variable condenser. No. 1,033,095; July 23; Gaz. vol. 180; p. 894.
Gerö, John. (See Belley, John, assignor.)
Gero, John F., Newark, Ohio. Flue turning and beading tool. No. 1,016,559; Feb. 6; Sp. p. 767; Gaz. vol. 175; p. 113.
Gerritz, George, Little Falls, Minn. Lawn-mower. No. 1,048,404; Dec. 24; Gaz. vol. 185; p. 998.
Gerry, Alberto I., Sanford, Me. Blend-making machine for staple goods. No. 1,034,996; Aug. 6; Gaz. vol. 181; p. 199.
Gerschi, John, Chicago, Ill. Hasp-fastener. No. 1,022,839; Apr. 9; Sp. p. 2326; Gaz. vol. 177; p. 398.
Gerson, Max A., Jersey City, N. J. Safety-clasp for jewelry. No. 1,025,973; May 14; Sp. p. 1926; Gaz. vol. 178; p. 332.
Gerspacher, Engelbert, Vienna, Austria-Hungary. Pencil-holder with adjustable core. No. 1,043,518; Nov. 5; Gaz. vol. 184; p. 170.
Gerstberger, Johann, Lódz, Russia. Thread-brake for first-combing machines. No. 1,040,185; Oct. 1; Gaz. vol. 183; p. 172.
Gerstenberg, Ernst, Washington, D. C. Pump. No. 1,034,358; July 30; Gaz. vol. 180; p. 1350.
Gerstenfield, Henry A., Chickasha, and E. Friend, Cement, Okla. Kafir-corn cutter. No. 1,047,040; Dec. 10; Gaz. vol. 185; p. 468.
Geruldsen, Hjalmar, New York, N. Y. Lantern. No. 1,041,065; Oct. 15; Gaz. vol. 183; p. 537.
Gerwig, Frederick H. N., Pittsburgh, Pa. Clay-gun. No. 1,013,153; Jan. 2; Sp. p. 126; Gaz. vol. 174; p. 22.
Gesche, Wilhelm, Tirschtiegel, Germany. Apparatus for barking willow-twigs. No. 1,018,659; Feb. 27; Sp. p. 5416; Gaz. vol. 175; p. 938.
Gesellschaft Für Drahtlose Telegraphie, m. b. H. (See Rendahl, Ragnar H., assignor.)
Gesellschaft für elektrotechnische Industrie mit beschränkter Haftung. (See Presser, Ernst, assignor.)
Gesellschaft für Maschinen- und Metall-Industrie mit Beschränkter Haftung. (See Edel, Hermann J., assignor.)
Gesellschaft für Verwertung technischer Patente mit beschränkter Haftung. (See Dreger, Karl von, assignor.)
Gesellschaft Otto Schmidt's Patent Herculessteine m. b. H. (See Schmidt, Otto, assignor.)
Gesellschaft zur Verwertung von Feuerwaffen Patenten m. b. H. (See Knötgen, Mathias, assignor.)
Gesner, Louis B., Downers Grove, Ill. Rotary steam-engine. No. 1,028,873; June 11; Sp. p. 1742; Gaz. vol. 179; p. 304.
Gessler, Albert E., Clifton, N. Y. Monoazo dye. No. 1,033,310; July 23; Gaz. vol. 180; p. 969.
Gesualdo, Joseph, and F. Baldassarre, Newark, N. J. Safety-alarm. No. 1,041,456; Oct. 15; Gaz. vol. 183; p. 668.
Gettelman, Frederick, Milwaukee, Wis. Safety-gage for liquids. No. 1,027,721; May 28; Sp. p. 5744; Gaz. vol. 178; p. 1001.
Getty, Fred I., Jennings, La. Pump. No. 1,036,094; Aug. 20; Gaz. vol. 181; p. 641.
Getty, Fred I., Jennings, La. Pump. No. 1,036,095; Aug. 20; Gaz. vol. 181; p. 642.
Getz, Noah R. and R., Manheim township, Lancaster county, Pa. Traction-engine. No. 1,038,114; Sept. 10; Gaz. vol. 182; p. 346.
Getz, Rohrer. (See Getz, Noah R. and R.)
Geuder, Paeschke & Frey Co. (See Kempter, Philip, assignor.)
Geverts, Frank J., *et al.* (See Lisch, Jacob J., assignor.)
Geyduschek, Frederick. (See Durgan, Willard C., assignor.)
Geyer, William F., Great Falls, Mont. Smoke elevator and concentrator. No. 1,029,438; June 11; Sp. p. 2986; Gaz. vol. 179; p. 500.
Geyser Oil Tank Company, The. (See Bowser, Augustus, assignor.)
Gherassimoff, Nicolas, St. Petersburg, Russia. Gyroscopic rocket and the firing apparatus therefor. No. 1,018,312; Feb. 20; Sp. p. 4589; Gaz. vol. 175; p. 788.
Gherky, William D. (See Nichols, Henry B., assignor.) (Reissue.)
Gherky, William D., Philadelphia, Pa. Track-grinding machine. No. 1,031,640; July 2; Gaz. vol. 180; p. 274.
Gherky, William D., and J. E. Allen, Philadelphia, Pa. Grinding-machine. No. 1,032,750; July 16; Gaz. vol. 180; p. 741.
Giacometti, Andres, Stains, France. Device applicable to locks for wedging the bars of doors. No. 1,047,784; Dec. 17; Gaz. vol. 185; p. 762.
Gibb, Alexander, St. Martin's Abbey, T. G. Menzies, North Queensferry, and R. Chalmers, Newport, Scotland. Withdrawing of piles, posts, and the like. No. 1,014,295; Jan. 9; Sp. p. 2674; Gaz. vol. 174; p. 446.
Gibbard, Walter S., Marysville, Ohio, assignor to Standard Stamping Company. Globe-holder. No. 1,033,393; July 23; Gaz. vol. 180; p. 996.
Gibbons, Mary A., Walnut, Iowa. Corn-harvester and husk-baler. No. 1,017,625; Feb. 13; Sp. p. 3035; Gaz. vol. 175; p. 512.
Gibbons, Michael F., Philadelphia, Pa. Automatic spring-damper. No. 1,039,512; Sept. 24; Gaz. vol. 182; p. 880.
Gibbons, William G., Edinburgh, Scotland. Variable-delivery pump for hydraulic transmission systems. No. 1,020,277; Mar. 12; Sp. p. 2704; Gaz. vol. 176; p. 458.
Gibbs, Angelica, administratrix. (See Gibbs, Lucius T.)
Gibbs, Arthur E., assignor to The Gibbs Manufacturing Company, Canton, Ohio. Top. No. 1,021,926; Apr. 2; Sp. p. 362; Gaz. vol. 177; p. 60.
Gibbs, Charles, and J. Sokolov, assignors to Underwood Typewriter Company, New York, N. Y. Stenciling-machine. No. 1,041,775; Oct. 22; Gaz. vol. 183; p. 811.
Gibbs, Charles, and J. Sokolov, assignors to Underwood Typewriter Company, New York, N. Y. Stenciling-machine. No. 1,046,581; Dec. 10; Gaz. vol. 185; p. 312.
Gibbs, Charles L., Philadelphia, Pa. Dental tool. No. 1,014,056; Jan. 9; Sp. p. 2167; Gaz. vol. 174; p. 362.
Gibbs Company. (See Gibbs, William E., assignor.)
Gibbs, Frederick H. (See Frame and Gibbs.)
Gibbs, Frederick H. (See Handy, Levin G., assignor.)
Gibbs, Frederick H., New York, N. Y., assignor to American Car and Foundry Company, St. Louis, Mo. Door-operating mechanism. No. 1,030,808; June 25; Sp. p. 6252; Gaz. vol. 179; p. 1056.
Gibbs, Harvey A., Genoa Junction, Wis. Receptacle-cover. No. 1,042,428; Oct. 29; Gaz. vol. 183; p. 1059.
Gibbs Heddle Company. (See Gibbs, William H., assignor.)

Alphabetical list of patentees—Continued.

Gibbs, Henry, assignor to W. D. Allen Manufacturing Company, Chicago, Ill. Hose-nozzle. No. 1,014,386; Jan. 9; Sp. p. 2894; Gaz. vol. 174; p. 479.
Gibbs, Henry, assignor to W. D. Allen Manufacturing Company, Chicago, Ill. Hose-band tightener. No. 1,034,100; July 30; Gaz. vol. 180; p. 1261.
Gibbs, Henry, assignor to W. D. Allen Manufacturing Company, Chicago, Ill. Hose-nozzle. No. 1,034,101; July 30; Gaz. vol. 180; p. 1262.
Gibbs, Henry, assignor to W. D. Allen Manufacturing Company, Chicago, Ill. Lubricator. No. 1,036,216; Aug. 20; Gaz. vol. 181; p. 687.
Gibbs, Henry, assignor to W. D. Allen Manufacturing Company, Chicago, Ill. Hose-band. No. 1,040,926; Oct. 8; Gaz. vol. 183; p. 455.
Gibbs-Inman Company. (See Gibbs, James S., assignor.)
Gibbs, Isaac A., assignor of one-half to J. Rose, Roanoke, Va. Sand-cleaning attachment for sand-distributers. No. 1,048,146; Dec. 24; Gaz. vol. 185; p. 913.
Gibbs, James E., Covington, Ky. Hand-plow. No. 1,031,996; July 9; Gaz. vol. 180; p. 436.
Gibbs, James E., assignor to The Gibbs Manufacturing Company, Covington, Ky. Door-check. No. 1,013,762; Jan. 2; Sp. p. 1486; Gaz. vol. 174; p. 235.
Gibbs, James S., assignor to Gibbs-Inman Company, Louisville, Ky. Railway-passage ticket. No. 1,032,359; July 9; Gaz. vol. 180; p. 563.
Gibbs, Lewis, assignor to The Gibbs Manufacturing Company, Canton, Ohio. Embroidery-hoop. No. 1,030,073; June 18; Sp. p. 4375; Gaz. vol. 179; p. 754.
Gibbs, Lucius T., Hempstead, N. Y., assignor to American Car & Foundry Company, St. Louis, Mo. Passenger-car. No. 1,031,060; July 2; Gaz. vol. 180; p. 76.
Gibbs, Lucius T., deceased, Hempstead; A. Gibbs, Flushing, N. Y., administratrix, assignor to The Westinghouse Air Brake Company, Pittsburgh, Pa. Car-heating system. No. 1,026,349; May 14; Sp. p. 2779; Gaz. vol. 178; p. 463.
Gibbs Manufacturing Company, The. (See Gibbs, Arthur E., assignor.)
Gibbs Manufacturing Company, The. (See Gibbs, James E., assignor.)
Gibbs Manufacturing Company, The. (See Gibbs, Lewis, assignor.)
Gibbs, William E., Plainfield, N. J., assignor to Joseph Fahys & Co., New York, N. Y. Making Swiss watch-bows. No. 1,019,316; Mar. 5; Sp. p. 702; Gaz. vol. 176; p. 109.
Gibbs, William E., Pittsburgh, Pa., assignor to Gibbs Company, Plainfield, N. J. Apparatus for annealing wire. No. 1,043,089; Nov. 5; Gaz. vol. 184; p. 14.
Gibbs, William H., Clinton, assignor, by mesne assignments, to Gibbs Heddle Company, Leicester, Mass. Soldering-machine. No. 1,016,006; Jan. 30; Sp. p. 6405; Gaz. vol. 174; p. 1115.
Gibeau, Albani B., and H. Hadley, Jr., assignors of one-third to C. A. Lamothe, Verdun, Quebec, Canada. Device for spreading material. No. 1,013,546; Jan. 2; Sp. p. 994; Gaz. vol. 174; p. 159.
Gibeson, George A., Norwood, N. Y., assignor to Samuel J. Shimer & Sons, Milton, Pa. Cutter-head. No. 1,032,891; July 16; Gaz. vol. 180; p. 787.
Gibford Specialty Co. (See Watson, Richard M., assignor.)
Giblin, John T. (See Voigt, George W., assignor.)
Gibney, Gilbert J., Mobile, Ala. Water-alarm for steam-boilers. No. 1,022,936; Apr. 9; Sp. p. 2546; Gaz. vol. 177; p. 431.
Gibney, Harry J., and J. A. Wolfe, Tulsa, Okla. Pipe-rig coupling. No. 1,035,697; Aug. 13; Gaz. vol. 181; p. 468.
Gibney, Samuel. (See Hollis and Gibney.)
Gibson, Adam M., Chicago, Ill. Gas-engine. No. 1,043,221; Nov. 5; Gaz. vol. 184; p. 63.
Gibson, Adelbert R., Los Angeles, Cal. Shoe-polishing device. No. 1,018,660; Feb. 27; Sp. p. 5417; Gaz. vol. 175; p. 938.
Gibson, Adelbert R., Los Angeles, Cal. Live-bait holder. No. 1,025,695; May 7; Sp. p. 1300; Gaz. vol. 178; p. 202.
Gibson, Angus H. (See Roberts and Gibson.)
Gibson, Britt C., Lockhart, S. C. Spindle-bearing. No. 1,014,057; Jan. 9; Sp. p. 2168; Gaz. vol. 174; p. 363.
Gibson, Calder C., Buffalo, N. Y. Rubber-stamp cabinet. No. 1,032,399; July 16; Gaz. vol. 180; p. 620.
Gibson, Calder C., Buffalo, N. Y. Cutting and stamping machine. No. 1,038,741; Sept. 17; Gaz. vol. 182; p. 598.
Gibson, Calder C., Buffalo, N. Y. Rubber-stamp cabinet. No. 1,038,742; Sept. 17; Gaz. vol. 182; p. 598.
Gibson, Campbell, assignor of one-half to C. M. Stafford, Mount Sterling, Ky. Clamping device. No. 1,013,763; Jan. 2; Sp. p. 1489; Gaz. vol. 174; p. 235.
Gibson, Charles B. (See Randall and Gibson.)
Gibson, Charles G., *et al.* (See Doner, Martin J., assignor.)
Gibson, Clifford H., and T. Creede, Coalinga, Cal. Bucket. No. 1,045,017; Nov. 19; Gaz. vol. 184; p. 747.
Gibson, Frank H. (See Souder, Frank P., assignor.)
Gibson, Frank H., Bridgeton, N. J. Glass-furnace. No. 1,032,598; July 16; Gaz. vol. 180; p. 687.
Gibson, George H., Montclair, N. J., assignor to Harrison Safety Boiler Works, Philadelphia, Pa. Water-heating apparatus. No. 1,014,822; Jan. 16; Sp. p. 3860; Gaz. vol. 174; p. 655.
Gibson, George H., Montclair, N. J., assignor to Harrison Safety Boiler Works, Philadelphia, Pa. Water-heating apparatus. No. 1,036,826; Aug. 27; Gaz. vol. 181; p. 925.
Gibson, George H., Montclair, N. J., assignor to Harrison Safety Boiler Works, Philadelphia, Pa. Hot-water heating system. No. 1,045,831; Dec. 3; Gaz. vol. 185; p. 13.
Gibson, George H., Montclair, N. J., assignor to J. S. L. Wharton, W. S. Hallowell, and J. C. Jones, Philadelphia, Pa. Combination water heating and measuring apparatus. No. 1,015,556; Jan. 23; Sp. p. 5436; Gaz. vol. 174; p. 931.
Gibson, George H., Montclair, N. J., assignor to J. S. L. Wharton, W. S. Hallowell, and J. C. Jones, Philadelphia, Pa. Liquid-measuring apparatus. No. 1,048,677; Dec. 31; Gaz. vol. 185; p. 1133.
Gibson, George P., Braddock, Pa. Smelting-furnace. No. 1,032,599; July 16; Gaz. vol. 180; p. 687.
Gibson, John A., *et al.* (See Magee, Francis L., assignor.)
Gibson, John W., Muncie, Ind. Railway-bed. No. 1,014,700; Jan. 16; Sp. p. 3584; Gaz. vol. 174; p. 613.
Gibson, Lemuel E., Des Moines, Iowa. Fastening device for picture-frames. No. 1,041,776; Oct. 22; Gaz. vol. 183; p. 811.
Gibson, Malcolm, Davisville, Ontario, Canada. Automatic fire-alarm. No. 1,031,707; July 9; Gaz. vol. 180; p. 340.
Gibson, Mark S., Girard, Pa. Public signal. No. 1,017,531; Feb. 13; Sp. p. 2866; Gaz. vol. 175; p. 483.
Gibson, Milton, Point Mills, Mich. Ice-creeper. No. 1,034,997; Aug. 6; Gaz. vol. 181; p. 199.
Gibson, Nicholas E., Chicago, Ill. Paper-stapling machine. No. 1,048,522; Dec. 31; Gaz. vol. 185; p. 1078.
Gibson, Russell U., Columbus, Ohio. Sliding-door lock. No. 1,048,678; Dec. 31; Gaz. vol. 185; p. 1133.
Gibson, William, Sr., Vandergrift, assignor to American Sheet & Tin Plate Company, Pittsburgh, Pa. Apparatus for coating metal. No. 1,037,235; Sept. 3; Gaz. vol. 182; p. 20.
Giclas, Louis, Washington, D. C. Door-mat. No. 1,029,802; June 18; Sp. p. 3767; Gaz. vol. 179; p. 662.
Giddens, William W., Adel, Ga. Churn. No. 1,048,523; Dec. 31; Gaz. vol. 185; p. 1078.
Giddings, Homer E., Fort Worth, Tex. Rail-joint. No. 1,046,769; Dec. 10; Gaz. vol. 185; p. 380.
Giddings, Squire R., Timnath, Colo. Beet-puller. No. 1,023,836; Apr. 23; Sp. p. 4417; Gaz. vol. 177; p. 793.
Gideon, Francis C., Ballston, Va. Facing-tile. No. 1,021,405; Mar. 26; Sp. p. 5123; Gaz. vol. 176; p. 927.
Gideons, Hiram E., Bay Minette, Ala. Bolt-heading tool. No. 1,031,782; July 9; Gaz. vol. 180; p. 366.
Gidlund, Albert J. (See Olsen and Gidlund.)
Gidney, Omar, Ontario, Cal. Roof-gage for squares. No. 1,047,041; Dec. 10; Gaz. vol. 185; p. 468.
Gieber, Vincent, Coweta, Okla. Cotton-stalk cutter. No. 1,031,641; July 2; Gaz. vol. 180; p. 274.
Gierding, Charles E., Newark, N. J. Trolley-base. No. 1,033,166; July 23; Gaz. vol. 180; p. 918.
Gierding, Charles E., assignor to Sterling-Meaker Company, Newark, N. J. Automatic wheel-guard. No. 1,018,898; Feb. 27; Sp. p. 5908; Gaz. vol. 175; p. 1019.
Gierding, Charles E., Belleville, assignor to Sterling-Meaker Company, Newark, N. J. Automatic wheel-guard. No. 1,036,521; Aug. 20; Gaz. vol. 181; p. 791.
Giermann, Wilhelm A., Blencoe, Iowa. Vehicle-tire. No. 1,021,246; Mar. 26; Sp. p. 4763; Gaz. vol. 176; p. 869.
Giese, Charles H., Jr., Newark, N. J. Hat-pin protector or guard. No. 1,024,325; Apr. 23; Sp. p. 5484; Gaz. vol. 177; p. 962.
Giese, Felix, Zoppot, and W. Wolters, Ildehausen, Germany. Manufacturing phosphoric-acid compounds. No. 1,025,619; May 7; Sp. p. 1158; Gaz. vol. 178; p. 177.
Giese, James A., Chicago, Ill., assignor to The Adams & Westlake Company. Lock. No. 1,029,747; June 18; Sp. p. 3650; Gaz. vol. 179; p. 643.
Giese, James A., assignor to The Adams & Westlake Company, Chicago, Ill. Sliding-door latch. No. 1,029,748; June 18; Sp. p. 3652; Gaz. vol. 179; p. 644.
Giese, James A., Chicago, Ill., assignor to The Adams & Westlake Company. Sash lock and lift. No. 1,029,803; June 18; Sp. p. 3768; Gaz. vol. 179; p. 663.
Giese, James A., Chicago, Ill., assignor to The Adams & Westlake Company. Lock for window-sash. No. 1,029,804; June 18; Sp. p. 3770; Gaz. vol. 179; p. 663.
Giese, James A., Chicago, Ill., assignor to The Adams & Westlake Company. Padlock. No. 1,031,335; July 2; Gaz. vol. 180; p. 171.
Giese, James A., Chicago, Ill., assignor to The Adams & Westlake Company. Padlock. No. 1,034,998; Aug. 6; Gaz. vol. 181; p. 199.
Giese, James A., Chicago, Ill., assigner to The Adams & Westlake Company. Padlock. No. 1,039,119; Sept. 24; Gaz. vol. 182; p. 741.
Gieseke, Otto. (See Rowohlt and Gieseke.)

Alphabetical list of patentees—Continued.

Giesler, Franklin B., Milwaukee, Wis. Apparatus for treating grain and other materials. No. 1,025,263; May 7; Sp. p. 341; Gaz. vol. 178; p. 55.
Giesseman, William, Dayton, Ohio. Sanitary paper bottle. No. 1,039,379; Sept. 24; Gaz. vol. 182; p. 834.
Gifford, Albert J., assignor to W. H. Leland & Company, Worcester, Mass. Electrical switch. No. 1,029,676; June 18; Sp. p. 3485; Gaz. vol. 179; p. 617.
Gifford, Charles A., Newark, N. J. Coupling device or clasp. No. 1,024,566; Apr. 30; Sp. p. 6095; Gaz. vol. 177; p. 1078.
Gifford, Charles H., assignor to American Blower Company, Detroit, Mich. Ventilating apparatus. No. 1,019,780; Mar. 12; Sp. p. 1672; Gaz. vol. 176; p. 292.
Gifford, Harry E., assignor to Champion Metal Weather Strip and Parting Bead Company, Boston, Mass. Adjustable window-shade fixture. No. 1,042,213; Oct. 22; Gaz. vol. 183; p. 958.
Gift, Charles W., Waynesboro, Pa. Cultivator. No. 1,024,986; Apr. 30; Sp. p. 6971; Gaz. vol. 177; p. 1225.
Gilbert, Alfred, Birmingham, England. Manifolding device. No. 1,026,308; May 14; Sp. p. 2685; Gaz. vol. 178; p. 449.
Gilbert, Charles L. (See Komarek, Gustav, assignor.)
Gilbert, Curtis, Anaheim, Cal. Roller towel-rack. No. 1,026,794; May 21; Sp. p. 3752; Gaz. vol. 178; p. 649.
Gilbert, Edward G. (See Martindale, John H., assignor.)
Gilbert, Fred E., Jacksonville, Fla. Bow-coupling for carriage-tops. No. 1,019,711; Mar. 5; Sp. p. 1524; Gaz. vol. 176; p. 236.
Gilbert, Fred E., Jacksonville, Fla. Automatic funnel. No. 1,023,012; Apr. 9; Sp. p. 2678; Gaz. vol. 177; p. 457.
Gilbert, Harry E., Conshohocken, Pa., assignor to John Wood Manufacturing Company. Gas-burner. No. 1,018,819; Feb. 27; Sp. p. 5759; Gaz. vol. 175; p. 994.
Gilbert, Henry J., Saginaw, Mich. Pulley. No. 1,022,840; Apr. 9; Sp. p. 2327; Gaz. vol. 177; p. 398.
Gilbert, Henry J., Saginaw, Mich. Pulley. No. 1,025,264; May 7; Sp. p. 344; Gaz. vol. 178; p. 56.
Gilbert, Henry J., Saginaw, Mich. Pulley. No. 1,026,795; May 21; Sp. p. 3753; Gaz. vol. 178; p. 649.
Gilbert, Henry J., Saginaw, Mich. Pulley. No. 1,026,796; May 21; Sp. p. 3755; Gaz. vol. 178; p. 650.
Gilbert, Henry J., Saginaw, Mich. Pulley. No. 1,026,797; May 21; Sp. p. 3758; Gaz. vol. 178; p. 650.
Gilbert, Henry J., Saginaw, Mich. Pulley. No. 1,032,537; July 16; Gaz. vol. 180; p. 666.
Gilbert, Horace, Drummoyne, New South Wales, Australia. Fountain or self-feeding pen. No. 1,038,743; Sept. 17; Gaz. vol. 182; p. 599.
Gilbert, Howard W. (See Wolfe and Gilbert.)
Gilbert, Joseph B., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Cutting-block. No. 1,048,147; Dec. 24; Gaz. vol. 185; p. 913.
Gilbert, Lyman J. (See Hanson and Gilbert.)
Gilbert, Phineas, Spokane, Wash. Propelling and lifting device for aeroplanes. No. 1,045,388; Nov. 26; Gaz. vol. 184; p. 904.
Gilbert-Russell, Thomas, Lyndhurst, England. Spring-tire. No. 1,031,436; July 2; Gaz. vol. 180; p. 205.
Gilbert, Thomas J. (See Woods and Gilbert.)
Gilbert, Walter V., London, England. Closing mechanism and the like. No. 1,024,987; Apr. 30; Sp. p. 6973; Gaz. vol. 177; p. 1225.
Gilbert, Walter V., London, England. Compound lever. No. 1,047,785; Dec. 17; Gaz. vol. 185; p. 762.
Gilbert, Webster D., Johnstown, N. Y. Boot-holder. No. 1,038,344; Sept. 10; Gaz. vol. 182; p. 424.
Gilbert, William A., Flushing, N. Y. Attachment for artificial limbs. No. 1,043,687; Nov. 5; Gaz. vol. 184; p. 227.
Gilbertson, Adolph, Hixton, Wis. Manure-carrier. No. 1,026,157; May 14; Sp. p. 2354; Gaz. vol. 178; p. 397.
Gilbertson, John H. (See Sheehan and Gilbertson.)
Gilbough, Benjamin G., assignor to Metal Specialties Manufacturing Company, Chicago, Ill. Lamp-bracket. No. 1,044,772; Nov. 19; Gaz. vol. 184; p. 664.
Gilbreth, Frank B., Boston, Mass. Apparatus for measuring and feeding materials. No. 1,014,645; Jan. 16; Sp. p. 3465; Gaz. vol. 174; p. 595.
Gilbreth, Frank B., Boston, Mass. Floor construction for buildings. No. 1,047,930; Dec. 24; Gaz. vol. 185; p. 841.
Gilbreth, Frank B., New York, N. Y. Building construction. No. 1,046,582; Dec. 10; Gaz. vol. 185; p. 312.
Gilcher, George, Ridgefield Park, N. J. Pilot-light. No. 1,029,805; June 18; Sp. p. 3772; Gaz. vol. 179; p. 663.
Gilchrist, David A., Belgrade, Mont. Rock-gathering and excavating machine. No. 1,029,359; June 11; Sp. p. 2802; Gaz. vol. 179; p. 472.
Gilchrist, Ira N., Kellogg, Idaho. Self-discharging riffle-box. No. 1,044,373; Nov. 12; Gaz. vol. 184; p. 494.
Gilchrist, Scott. (See Spencer, Francis E., assignor.)
Gilcrest, Frank A., Kearney, Nebr. Valve for automobile-tires or the like. No. 1,048,955; Dec. 31; Gaz. vol. 185; p. 1228.
Gilda, John R., St. Louis, Mo. Churn. No. 1,023,075; Apr. 9; Sp. p. 2809; Gaz. vol. 177; p. 478.
Gildersleeve, Raleigh C., assignor to El Arco Radiator Company, New York, N. Y. Cooler. No. 1,037,754; Sept. 3; Gaz. vol. 182; p. 193.
Gile, Frank J., Lawrence, Mass. Air-pressure regulator for force-pumps. No. 1,023,146; Apr. 16; Sp. p. 3014; Gaz. vol. 177; p. 541.
Giles, Georges, Fribourg, Switzerland. Electric safety device for the flowing out of excess voltage. No. 1,040,927; Oct. 8; Gaz. vol. 183; p. 455.
Giles, Harvey, South Boundbrook, N. J., assignor to Kops Bros., New York, N. Y. Skirt and waist retainer. No. 1,048,405; Dec. 24; Gaz. vol. 185; p. 999.
Giles, Henry S., *et al.* (See Geier, James, assignor.)
Giletti, Secondo, East Oakland, Cal. Building construction. No. 1,022,841; Apr. 9; Sp. p. 2332; Gaz. vol. 177; p. 398.
Giletti, Secondo, Oakland, Cal. Tile-press. No. 1,023,512; Apr. 16; Sp. p. 3745; Gaz. vol. 177; p. 662.
Gilfillan, Emma, executrix. (See Gilfillan, Essington N.)
Gilfillan, Essington N., deceased, Chicago, Ill.; E. Gilfillan, executrix. Egg carrier or receptacle. No. 1,029,749; June 18; Sp. p. 3653; Gaz. vol. 179; p. 644.
Gilfillan, Essington N., deceased; E. Gilfillan, Skaneateles, executrix, assignor of fifty-one one-hundredths to J. Hunter, Fulton, N. Y. Machine for forming covers for cigars. No. 1,039,046; Sept. 17; Gaz. vol. 182; p. 698.
Gilkerson, Chester A., Joliet, Ill. Siphon-skimmer. No. 1,016,938; Feb. 13; Sp. p. 1571; Gaz. vol. 175; p. 278.
Gilkerson, Solomon D., Winnipeg, Manitoba, Canada. Reinforcing and shape-keeping card for clothes. No. 1,021,593; Mar. 26; Sp. p. 5519; Gaz. vol. 176; p. 991.
Gilkeson, Rush S., Detroit, Mich. Attachment for children's vehicles. No. 1,023,467; Apr. 16; Sp. p. 3649; Gaz. vol. 177; p. 647.
Gilkey Printing Company, The. (See Guina, William E., assignor.)
Gilkey, Vern, Los Angeles, Cal. Hurdle. No. 1,013,386; Jan. 2; Sp. p. 657; Gaz. vol. 174; p. 104.
Gill, Edwin R., Yonkers, N. Y. Variable-resistance means. No. 1,026,798; May 21; Sp. p. 3761; Gaz. vol. 178; p. 650.
Gill, Edwin R., Yonkers, assignor, by mesne assignments, to H. E. Merrell, New York, N. Y., and O. J. Hamlin, Smethport, Pa. Electrically-controlled semaphore. No. 1,013,290; Jan. 2; Sp. p. 454; Gaz. vol. 174; p. 71.
Gill, Edwin R., Yonkers, assignor, by mesne assignments, to H. E. Merrell, New York, N. Y., and O. J. Hamlin, Smethport, Pa. Signaling system. No. 1,019,781; Mar. 12; Sp. p. 1674; Gaz. vol. 176; p. 292.
Gill, Edwin R., Yonkers, assignor, by mesne assignments, to H. E. Merrell, New York, N. Y., and O. J. Hamlin, Smethport, Pa. Selective signaling system. No. 1,020,975; Mar. 26; Sp. p. 4193; Gaz. vol. 176; p. 779.
Gill, Edwin R., Yonkers, assignor, by mesne assignments, to H. E. Merrell, New York, N. Y., and O. J. Hamlin, Smethport, Pa. Combined telephonic and telegraphic system. No. 1,021,717; Mar. 26; Sp. p. 5731; Gaz. vol. 176; p. 1030.
Gill, Edwin R., Yonkers, assignor, by mesne assignments, to H. E. Merrell, New York, N. Y., and O. J. Hamlin, Smethport, Pa. Automatic signal-operator. No. 1,024,444; Apr. 23; Sp. p. 5737; Gaz. vol. 177; p. 998.
Gill, Edwin R., Yonkers, assignor, by mesne assignments, to H. E. Merrell, New York, N. Y., and O. J. Hamlin, Smethport, Pa. Selective signaling system. No. 1,024,445; Apr. 23; Sp. p. 5744; Gaz. vol. 177; p. 999.
Gill, Edwin R., Yonkers, assignor, by mesne assignments, to H. E. Merrell, New York, N. Y., and O. J. Hamlin, Smethport, Pa. Signaling system. No. 1,024,446; Apr. 23; Sp. p. 5747; Gaz. vol. 177; p. 999.
Gill, Fred A., Culebra, Canal Zone. Dies and dolly. No. 1,039,380; Sept. 24; Gaz. vol. 182; p. 834.
Gill, George C., assignor to Barlow Company, Holyoke, Mass. Burner. No. 1,039,513; Sept. 24; Gaz. vol. 182; p. 881.
Gill, John R., London, England. Means for testing fabric. No. 1,015,730; Jan. 23; Sp. p. 5816; Gaz. vol 174; p. 992.
Gill, Stanislaw J., Hammond, Ind. Shade-curtain fixture. No. 1,040,186; Oct. 1; Gaz. vol. 183; p. 172.
Gill, William H., New Britain, Conn. Clock-assembling machine. No. 1,048,821; Dec. 31; Gaz. vol. 185; p. 1183.
Gille, Hugo, Dusseldorf, assignor to Faconeisenwalzwerk L. Mannstaedt & Cie., Aktiengesellschaft, Kalk, near Cologne, Germany. Reversing-valve for regenerative furnaces. No. 1,033,577; July 23; Gaz. vol. 180; p. 1055.
Gillen, Isabella, New York, N. Y. Automatic-shut-off conduit. No. 1,034,009; July 30; Gaz. vol. 180; p. 1229.
Gillenwater, Jesse D., Peru, Ind. Window shade and curtain fixture. No. 1,024,255; Apr. 23; Sp. p. 5363; Gaz. vol. 177; p. 940.
Gillern, Alois F. von, Vienna, Austria-Hungary. Boot and shoe lace guide. No. 1,024,888; Apr. 30; Sp. p. 6771; Gaz. vol. 177; p. 1191.
Gillern, Alois F. von, Vienna, Austria-Hungary. Curved lacing-guide for shoes, corsets, and such like. No. 1,031,061; July 2; Gaz. vol. 180; p. 76.
Gillespie, Alexander D., Hilliards, Pa. Hat-pin-point protector. No. 1,031,437; July 2; Gaz. vol. 180; p. 205.

Alphabetical list of patentees—Continued.

Gillespie, Charles, *et al.* (See Wilson, James, assignor.)
Gillespie, Edward L., Seattle, Wash. Disappearing wall-bed. No. 1,016,139; Jan. 30; Sp. p. 6682; Gaz. vol. 174; p. 1161.
Gillespie, George W. (See Rookledge and Gillespie.)
Gillespie, George W., Seattle, Wash. Combination ice-skate and lawn-mower sharpener. No. 1,025,393; May 7; Sp. p. 640; Gaz. vol. 178; p. 100.
Gillespie, Henry L., *et al.* (See Curran, Harry L., assignor.)
Gillespie, James F., and A. Colbert, Des Moines, Iowa. Welding device. No. 1,048,148; Dec. 24; Gaz. vol. 185; p. 914.
Gillespie, John J., Boston, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Work-support. No. 1,022,412; Apr. 9; Sp. p. 1372; Gaz. vol. 177; p. 252.
Gillespie, John J., Boston, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for beveling and fleshing soles. No. 1,029,009; June 11; Sp. p. 2053; Gaz. vol. 179; p. 353.
Gillet, Victoria. (See MacLeod, Donald M., assignor.)
Gillett & Eaton. (See Eaton and Keith, assignors.)
Gillett, Harry, Cleveland, Ohio. Composite roofing. No. 1,044,773; Nov. 19; Gaz. vol. 184; p. 664.
Gillett, Harry, Cleveland, Ohio. Composite roofing. No. 1,044,774; Nov. 19; Gaz. vol. 184; p. 665.
Gillette, Frank A., Philadelphia, Pa. Bolt-cutting machine. No. 1,023,013; Apr. 9; Sp. p. 2680; Gaz. vol. 177; p. 457.
Gillette, George K., Central Village, Conn., assignor to Fred W. Morse Company. Poultry-feeder. No. 1,045,783; Nov. 26; Gaz. vol. 184; p. 1045.
Gillette, Henry, Belpre, Kans. Wheel-rim. No. 1,015,557 Jan. 23; Sp. p. 5445; Gaz. vol. 174; p. 932.
Gillette, Henry, Belpre, Kans. Bricklayer's line-holder. No. 1,021,406; Mar. 26; Sp. p. 5126; Gaz. vol. 176; p. 927.
Gillette, John C., Baltimore, Md., assignor to General Electric Company. Sectional insulator. No. 1,019,451; Mar. 5; Sp. p. 1028; Gaz. vol. 176; p. 151.
Gillette, Walter A., assignor to Petrolithic Pavement Company, Los Angeles, Cal. Scarifier. No. 1,037,755; Sept. 3; Gaz. vol. 182; p. 193.
Gilliam Manufacturing Company, The. (See Stump, Charles W., assignor.)
Gilliam Manufacturing Company, The. (See White, Harry B., assignor.)
Gillies, Alexander, Heidelberg, Victoria, Australia, assignor to D. H. Burrell & Company, Little Falls, N. Y. Teat cup. No. 1,024,847; Apr. 30; Sp. p. 6694; Gaz. vol. 177; p. 1178.
Gillies, Alfred and W., Weston, Ontario, Canada. Manufacture of artificial stone. No. 1,038,115; Sept. 10; Gaz. vol. 182; p. 347.
Gillies, William. (See Gillies, Alfred and W.)
Gilliland, Samuel W., Bates county, Mo. Weight-motor. No. 1,021,749; Mar. 26; Sp. p. 5799; Gaz. vol. 176; p. 1041.
Gillis & Geoghegan. (See Forman, Louis O., assignor.)
Gillman, Frederick C., Chehalis, Wash. Gas cut-off. No. 1,045,693; Nov. 26; Gaz. vol. 184; p. 1014.
Gillman and Spencer (1902) Limited. (See Wechsler, Marcus, assignor.)
Gillmor, Horatio G., Bath, Me. Means of forming joints in rails. No. 1,016,621; Feb. 6; Sp. p. 907; Gaz. vol. 175; p. 135.
Gillmor, Horatio G., Quincy, Mass. Device for expanding pipes, tubes, &c. No. 1,046,457; Dec. 10; Gaz. vol. 185; p. 267.
Gillmor, Horatio G., and W. R. Haysom, Quincy, Mass. Pipe-joint. No. 1,045,389; Nov. 26; Gaz. vol. 184; p. 904.
Gillmore, John L., Everett, Wash. Fire-escape. No. 1,015,485; Jan. 23; Sp. p. 5298; Gaz. vol. 174; p. 908.
Gilloon, Thomas J., and J. F. Huber, Elma, Iowa. Fire-escape. No. 1,033,311; July 23; Gaz. vol. 180; p. 969.
Gillot, Amedée. (See Briffaux, Brisson-Dauthel, and Gillot.)
Gilman, Don E., *et al.* (See Jernigan, Lee H., assignor.)
Gilman, George H., assignor to Sullivan Machinery Company, Claremont, N. H. Valve. No. 1,030,466; June 25; Sp. p. 5242; Gaz. vol. 179; p. 933.
Gilman, George H., assignor to Sullivan Machinery Company, Claremont, N. H. Tool-rotating mechanism. No. 1,034,010; July 30; Gaz. vol. 180; p. 1229.
Gilman, George H., assignor to Sullivan Machinery Company, Claremont, N. H. Lubricator. No. 1,035,117; Aug. 6; Gaz. vol. 181; p. 238.
Gilman, George S. (See Upton and Gilman.)
Gilman, James R. (See Shrader and Gilman.)
Gilman, John H., assignor to King & Hamilton Company, Ottawa, Ill. Corn-sheller. No. 1,018,820; Feb. 27; Sp. p. 5762; Gaz. vol. 175; p. 994.
Gilman, John H., assignor to King & Hamilton Company, Ottawa, Ill. Conveying apparatus. No. 1,021,866; Apr. 2; Sp. p. 250; Gaz. vol. 177; p. 41.
Gilman, Myron A., Westfield, Mass. Garment-hanger. No. 1,027,837; May 28; Sp. p. 6001; Gaz. vol. 178; p. 1041.
Gilman, Osmon B., Boston, Mass. Machine for treating crackers. No. 1,019,630; Mar. 5; Sp. p. 1382; Gaz. vol. 176; p. 211.
Gilmartin, Michael W., Lake Denmark, N. J., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Grapple. No. 1,039,727; Oct. 1; Gaz. vol. 183; p. 19.
Gilmer, George W., Jr., Philadelphia, Pa. Combination-tool. No. 1,017,093; Feb. 13; Sp. p. 1938; Gaz. vol. 175; p. 333.
Gilmer, John T., Florala, Ala. Muffler. No. 1,018,044; Feb. 20; Sp. p. 4026; Gaz. vol. 175; p. 696.
Gilmer, John T., Florala, Ala., assignor of one-half to P. H. Enochs, Fernwood, Miss. Barrel-head. No. 1,034,102; July 30; Gaz. vol. 180; p. 1262.
Gilmore, Allen, Lyndon, Wis. Potato-picker. No. 1,028,205; June 4; Sp. p. 332; Gaz. vol. 179; p. 44.
Gilmore, Almer H., Seattle, Wash. Lathing-securing tack-strip. No. 1,023,837; Apr. 23; Sp. p. 4419; Gaz. vol. 177; p. 794.
Gilmore, Arthur, New York, N. Y., assignor to Crouch & Fitzgerald. Hanger-rack for garment-receptacles. No. 1,047,931; Dec. 24; Gaz. vol. 185; p. 841.
Gilmore, Charles A., McComb, Miss. Draft-gear. No. 1,014,590; Jan. 9; Sp. p. 3261; Gaz. vol. 174; p. 544.
Gilmore, Charles B., assignor of one-half to L. C. Walter, Bloomington, Ill. Pneumatic cleaner. No. 1,035,341; Aug. 13; Gaz. vol. 181; p. 348.
Gilmore, Charles T., Chicago, Ill. Ironing-machine. No. 1,029,183; June 11; Sp. p. 2410; Gaz. vol. 179; p. 411.
Gilmore, Frank M., Chicago, Ill., assignor to H. W. Johns-Manville Company. Applying pipe-covering. No. 1,013,291; Jan. 2; Sp. p. 458; Gaz. vol. 174; p. 71.
Gilmore, Howard, Brookline, Mass. Incandescent electric lamp. No. 1,031,114; July 2; Gaz. vol. 180; p. 94.
Gilmore, John A., South Boston, Mass. Combined arbor-press and punching-machine. No. 1,033,050; July 16; Gaz. vol. 180; p. 840.
Gilmore, John M., Chicago, Ill. Dental apparatus. No. 1,039,728; Oct. 1; Gaz. vol. 183; p. 20.
Gilmore, Millard, assignor to Variety Manufacturing Company, Chicago, Ill. Fire-escape. No. 1,032,665; July 16; Gaz. vol. 180; p. 711.
Gilmore, Steele F., Indianapolis, Ind. Anchorage for dental bridges and plates. No. 1,022,070; Apr. 2; Sp. p. 676; Gaz. vol. 177; p. 108.
Gilmore, William G., Stockport, England. Apparatus for issuing metal checks and the like. No. 1,029,603; June 18; Sp. p. 3325; Gaz. vol. 179; p. 591.
Gilmore, Willis B., Idaho Springs, Colo. Spinning-top. No. 1,023,637; Apr. 16; Sp. p. 4001; Gaz. vol. 177; p. 702.
Gilmore, Winfield S., New York, N. Y., assignor to Crouch & Fitzgerald. Garment-receptacle. No. 1,028,206; June 4; Sp. p. 335; Gaz. vol. 179; p. 45.
Gilmore, Winfield S., New York, N. Y., assignor to Crouch & Fitzgerald. Receptacle for garments. No. 1,028,207; June 4; Sp. p. 337; Gaz. vol. 179; p. 45.
Gilowitz, Benjamin, Greenport, N. Y. Non-refillable bottle. No. 1,025,802; May 7; Sp. p. 1520; Gaz. vol. 178; p. 240.
Gilowsky, Emanuel M. (See Ahrens and Gilowsky.)
Gilpin, Albert D., Lincoln, Kans. Combined nozzle, sprayer, and sprinkler. No. 1,031,176; July 2; Gaz. vol. 180; p. 116.
Gilroy, William E., assignor to Eureka Mower Company, Utica, N. Y. Check-row corn-planter. No. 1,019,038; Mar. 5; Sp. p. 54; Gaz. vol. 176; p. 12.
Gilsbach, Clemens, Bonzeler-Hammer, near Grevenbrück, Germany. Rotary engine. No. 1,029,677; June 18; Sp. p. 3488; Gaz. vol. 179; p. 618.
Gilson, Anna K., Quechee, Vt. Rake. No. 1,029,988; June 18; Sp. p. 4184; Gaz. vol. 179; p. 725.
Gilson, Henry R., Beaver, assignor to National Metal Molding Company, Pittsburgh, Pa. Junction-box. No. 1,032,058; July 9; Gaz. vol. 180; p. 459.
Gilson, John E., assignor to Gilson Manufacturing Company, Port Washington, Wis. Internal-combustion engine. No. 1,044,514; Nov. 19; Gaz. vol. 184; p. 571.
Gilson, Joshua. (See Wegner, Lewis E., assignor.)
Gilson Manufacturing Company. (See Gilson, John E., assignor.)
Gilstrap, James M., Fresno, Cal. Steering-gear for vehicles. No. 1,024,505; Apr. 30; Sp. p. 5926; Gaz. vol. 177; p. 1057.
Gilstrap, James M., Delano, Cal. Friction driving mechanism for motor-vehicles. No. 1,048,406; Dec. 24; Gaz. vol. 185; p. 999.
Gimnich, P. G. (See Dowden, John W., assignor.)
Ginaca, Henry G., Honolulu, Hawaii. Automatic fruit corer and sizer. No. 1,039,926; Oct. 1; Gaz. vol. 183; p. 85.
Gingrich, David H. (See Campbell, Colin, assignor.)
Ginn, Percy E. (See Scott, Charles D., assignor.)
Ginn, Percy E. (See Upton and Gilman, assignors.)
Giolitti, Federico, Rome, assignor to Societa Anonima Italiano Gio Ansaldo Armstrong & Co., Genoa, Italy. Armor-plate and other steel article. No. 1,016,560; Feb. 6; Sp. p. 769; Gaz. vol. 175; p. 113.

Alphabetical list of patentees—Continued.

Giolitti, Federico, Rome, assignor to Societa Anonima Italiana Gio. Ansaldo Armstrong & Co., Genoa, Italy. Manufacturing steel plates. No. 1,024,770; Apr. 30; Sp. p. 6530; Gaz. vol. 177; p. 1149.
Giolitti, Federico, Rome, assignor to Società Anonima Italiana Gio. Ansaldo Armstrong & Co., Genoa, Italy. Armor-plate and other steel article. No. 1,043,416; Nov. 5; Gaz. vol. 184; p. 132.
Giordano, Anthony, San Antonio, Tex. Bedclothes-clamp. No. 1,045,832; Dec. 3; Gaz. vol. 185; p. 13.
Giordano, Felice, Pittsburgh, Pa. Monorail and truck. No. 1,048,679; Dec. 31; Gaz. vol. 185; p. 1133.
Giordano, Pasquale, Boston, Mass. Flying-machine. No. 1,030,994; July 2; Gaz. vol. 180; p. 51.
Giovanetti, Pietro. (See Mosso and Giovanetti.)
Gipe, Emanuel C., Toronto, Ontario, Canada. Store-service apparatus. No. 1,037,236; Sept. 3; Gaz. vol. 182; p. 20.
Gipe, Emanuel C., Toronto, Ontario, Canada. Store-service apparatus. No. 1,048,524; Dec. 31; Gaz. vol. 185; p. 1079.
Gipple, Roy E., assignor of one-third to A. A. Klein and one-third to A. G. Beach, Williamsville, N. Y. Bag-holder. No. 1,025,974; May 14; Sp. p. 1927; Gaz. vol. 178; p. 332.
Girard, Augustus O., St. Louis, Mo. Stove. No. 1,020,278; Mar. 12; Sp. p. 2706; Gaz. vol. 176; p. 458.
Girard, Louis B., assignor to The Girard Manufacturing Company, Los Angeles, Cal. Rolling-off machine for shade-cloth. No. 1,022,024; Apr. 2; Sp. p. 581; Gaz. vol. 177; p. 91.
Girard Manufacturing Company, The. (See Girard, Louis B., assignor.)
Girardeau, Emile, Paris, France. Protective apparatus for radiotelegraphic stations. No. 1,035,958; Aug. 20; Gaz. vol. 181; p. 594.
Girling, Albert H. G., Woolwich, London, England. Clip or socket for hose and other joints. No. 1,045,277; Nov. 26; Gaz. vol. 184; p. 867.
Girlot, Joseph, Laeken, Brussels, Belgium. Machine for forging circular pieces. No. 1,040,979; Oct. 8; Gaz. vol. 183; p. 474.
Girod, Paul, Ugines, France. Manufacture of steel. No. 1,043,090; Nov. 5; Gaz. vol. 184; p. 14.
Gironcoli, Siegfried, Zollfeld, Austria-Hungary. Preserving of raw victuals of animal origin. No. 1,017,144 Feb. 13; Sp. p. 2036; Gaz. vol. 175; p. 350.
Girouard, Solomon A., Spencer, Mass. Sanitary seat. No. 1,036,217; Aug. 20; Gaz. vol. 181; p. 688.
Giroud, William E., New York, N. Y. Non-refillable bottle. No. 1,030,074; June 18; Sp. p. 4377; Gaz. vol. 179; p. 755.
Giroux, Louis F., Springfield, Mass. Transparency. No. 1,014,460; Jan. 9; Sp. p. 3032; Gaz. vol. 174; p. 503.
Girson, David, Spokane, Wash. Rack for pool-balls. No. 1,034,705; Aug. 6; Gaz. vol. 181; p. 101.
Girtanner, Alice M. and F., St. Louis, Mo. Water-heater. No. 1,019,452; Mar. 5; Sp. p. 1029; Gaz. vol. 176; p. 151.
Girtanner, Frederick. (See Girtanner, Alice M. and F.)
Girvin, Harold. (See Myles and Girvin.)
Gish, John L., South Bend, Ind. Regulated automatic-closing valve. No. 1,033,002; July 16; Gaz. vol. 180; p. 823.
Gish, John L., South Bend, Ind. Regulated automatic-closing valve. No. 1,042,546; Oct. 29; Gaz. vol. 183; p. 1100.
Gish, John L., South Bend, Ind. Regulated automatic-closing valve. No. 1,042,547; Oct. 29; Gaz. vol. 183; p. 1101.
Gisholt Machine Company. (See Miller, William L., assignor.)
Gisholt Machine Company. (See Schmelzkopf, Edward C., assignor.)
Gisske, Walter P., Los Angeles, Cal. Can-opener. No. 1,023,838; Apr. 23; Sp. p. 4420; Gaz. vol. 177; p. 794.
Gist, Hiram C., Redkey, Ind. Hardy-operating device. No. 1,024,848; Apr. 30; Sp. p. 6696; Gaz. vol. 177; p. 1178.
Gitzendanner, Charles, assignor of one-half to W. H. Horton, New York, N. Y. Book and pamphlet making machine. No. 1,028,708; June 4; Sp. p. 1371; Gaz. vol. 179; p. 213.
Giugliano, Gennaro, West Hoboken, N. J. Holder for a paper of pins. No. 1,038,345; Sept. 10; Gaz. vol. 182; p. 425.
Giusti, Tito. (See Pinoli, Carlo, assignor.)
Givens, Jeremiah A., assignor of one-half to G. A. Richards, Los Angeles, Cal. Vehicle direction-indicator. No. 1,023,732; Apr. 16; Sp. p. 4160; Gaz. vol. 177; p. 730.
Gizzi, Benjamin, Delmont, Pa. Hitching-strap. No. 1,037,613; Sept. 3; Gaz. vol. 182; p. 146.
Gjerde, Gullik K., assignor to Levahn Motor Co. A/S., Christiania, Norway. Duplex-piston engine. No. 1,049,076; Dec. 31; Gaz. vol. 185; p. 1269.
Gjetting, Regner H. J., Copenhagen, Denmark. Pulsator for milking-machines. No. 1,017,405; Feb. 13; Sp. p. 2596; Gaz. vol. 175; p. 440.
Gjetting, Regner H. J., Copenhagen, Denmark. Milking-machine. No. 1,018,610; Feb. 27; Sp. p. 5312; Gaz. vol. 175; p. 922.
Gjorup, Knud, and T. Petersen, Hartford, assignors of one-fourth to P. E. Bossen and one-fourth to J. Bossen, South Windsor, Conn. Blocks. No. 1,021,594; Mar. 26; Sp. p. 5519; Gaz. vol. 176; p. 991.
Glabaznya, Rudolph, Chicago, Ill. Vehicle-tire. No. 1,020,549; Mar. 19; Sp. p. 3270; Gaz. vol. 176; p. 585.
Glacken, Raymond M., Baltimore, Md. Canning acid fruits or vegetables. No. 1,021,770; Apr. 2; Sp. p. 30; Gaz. vol. 177; p. 8.
Gladden, Roland L., Gadsden, Ala. Lamp-globe holder. No. 1,028,015; May 28; Sp. p. 6413; Gaz. vol. 178; p. 1100.
Gladden, Roland L., Gadsden, Ala. Clothes-hanger. No. 1,036,607; Aug. 27; Gaz. vol. 181; p. 853.
Gladding, James N., Mount Kisco, N. Y. Banjo. No. 1,046,770; Dec. 10; Gaz. vol. 185; p. 380.
Gladding, Samuel E., Jersey City, N. J. Sounding apparatus for ships. No. 1,020,490; Mar. 19; Sp. p. 3135; Gaz. vol. 176; p. 565.
Gladeck, Frederick C. (See Brand and Gladeck.)
Gladhill, Harvey W., Chambersburg, Pa. Means for driving suspended structures, such as sifters. No. 1,039,514; Sept. 24; Gaz. vol. 182; p. 881.
Gladhill, Harvey W., Chambersburg, Pa. Balancing device for sifters. No. 1,045,694; Nov. 26; Gaz. vol. 184; p. 1015.
Gladson, William N. (See Ripley, Gladson, and Thompson.)
Gladstone, William E. (See Fyfe and Gladstone.)
Gladue, William, Bertha, N. D. Whip-lock. No. 1,042,665; Oct. 29; Gaz. vol. 183; p. 1143.
Glasel, Charles J., Cologne, Germany. Hide-treating machine. No. 1,034,783; Aug. 6; Gaz. vol. 181; p. 128.
Glaser, Adam F., Jersey City, and J. Olsen, Whippany, assignors of one-third to G. W. Crane, Rahway, N. J. Resilient wheel. No. 1,026,505; May 14; Sp. p. 3118; Gaz. vol. 178; p. 515.
Glaser, Bernhard, assignor of one-half to A. B. Seelenfreund, Chicago, Ill. Loose-leaf binder. No. 1,039,047; Sept. 17; Gaz. vol. 182; p. 699.
Glaser, Elizabeth R., North Dover, Ohio. Fruit-jar. No. 1,023,560; Apr. 16; Sp. p. 3842; Gaz. vol. 177; p. 677.
Glaser, Ludwig, Berlin, Germany, assignor to General Electric Company. Holder for lamp-filaments. No. 1,022,543; Apr. 9; Sp. p. 1665; Gaz. vol. 177; p. 296.
Glaser, Ludwig, Pankow, Germany, assignor to General Electric Company. Incandescent lamp. No. 1,023,307; Apr. 16; Sp. p. 3340; Gaz. vol. 177; p. 596.
Glaser, Simon. (See Eberhart and Glaser.)
Glasfabriken und Raffinerien Josef Inwald A. G. (See Jung, Karl, assignor.)
Glasgow, Arthur G., Richmond, Va. Manufacture of water-gas. No. 1,043,822; Nov. 12; Gaz. vol. 184; p. 304.
Glasgow, Arthur G., Richmond, Va. Plant for the manufacture of carbureted water-gas. No. 1,047,201; Dec. 17; Gaz. vol. 185; p. 556.
Glasgow, Arthur G., Richmond, Va. Manufacture of carbureted water-gas. No. 1,047,512; Dec. 17; Gaz. vol. 185; p. 667.
Glass, Ernest, Chicago, Ill. Concertina-action. No. 1,024,771; Apr. 30; Sp. p. 6532; Gaz. vol. 177; p. 1150.
Glass, George A., Newark, N. J. Gas-cock lock. No. 1,039,048; Sept. 17; Gaz. vol. 182; p. 699.
Glass, Max, Vienna, Austria-Hungary. Lubricator. No. 1,034,612; Aug. 6; Gaz. vol. 181; p. 69.
Glass, Pearl P., Anadarko, Okla. Wrench. No. 1,039,515; Sept. 24; Gaz. vol. 182; p. 882.
Glass Products Company. (See Burrows, William R., assignor.)
Glass, Robert L., and H. S. Walker, Corvallis, Oreg.; said Walker assignor to said Glass. Automobile-cooler. No. 1,036,484; Aug. 20; Gaz. vol. 181; p. 778.
Glassbrook, Clarence I., Salt Lake City, Utah. Ore-concentrator. No. 1,038,871; Sept. 17; Gaz. vol. 182; p. 643.
Glassner, Frederick P., Searchlight, Nev. Valve. No. 1,029,184; June 11; Sp. p. 2416; Gaz. vol. 179; p. 411.
Glatt, August, Eureka, Cal. Cultivator. No. 1,017,048; Feb. 13; Sp. p. 1819; Gaz. vol. 175; p. 316.
Glauber, Joseph H., Cleveland, Ohio. Self-closing faucet. No. 1,015,310; Jan. 23; Sp. p. 4897; Gaz. vol. 174; p. 848.
Glauber, Joseph H., Cleveland, Ohio. Self-closing faucet. No. 1,027,120; May 21; Sp. p. 4538; Gaz. vol. 178; p. 763.
Glaubitz, Gallus von, Munich, Germany. Toy airship. No. 1,020,088; Mar. 12; Sp. p. 2302; Gaz. vol. 176; p. 395.
Glaze, Frederick E., and S. A. Hackley, Victor, Colo.; said Hackley assignor to said Glaze. Fire-escape. No. 1,031,922; July 9; Gaz. vol. 180; p. 415.
Gleason, Albert J., Jersey City, N. J. Doll. No. 1,044,162; Nov. 12; Gaz. vol. 184; p. 421.
Gleason, Emma, Jersey City, N. J. Doll. No. 1,044,163; Nov. 12; Gaz. vol. 184; p. 421.
Gleason, George, Auburn, N. Y. Cattle-stanchion. No. 1,030,724; June 25; Sp. p. 6008; Gaz. vol. 179; p. 1025.
Gleason, William L., Newport News, Va. Combined cigarette and match box. No. 1,037,237; Sept. 3; Gaz. vol. 182; p. 21.

Alphabetical list of patentees—Continued.

Gleason, William P., Gary, Ind. Safety device for metal-mixers. No. 1,038,872; Sept. 17; Gaz. vol. 182; p. 643.
Glebe, August, Pforzheim, Germany. Manufacture of jointless rings. No. 1,038,346; Sept. 10; Gaz. vol. 182; p. 425.
Gledhill, Edward C., assignor to Galion Iron Works Company, Galion, Ohio. Drag attachment. No. 1,039,381; Sept. 24; Gaz. vol. 182; p. 834.
Gleissner, August J. (See Harbison, Clifford M., assignor.)
Glenn, Edmond R., assignor to Western Cabinet and Fixture Manufacturing Company, Kansas City, Mo. Soda-fountain. No. 1,027,472; May 28; Sp. p. 5241; Gaz. vol. 178; p. 919.
Glenn, Edward A., Chicago, Ill. Vehicle-wheel. No. 1,021,459; Mar. 26; Sp. p. 5229; Gaz. vol. 176; p. 945.
Glenn, Edward L. (See Gatten and Glenn.)
Glenn, J. E. (See Robertson, Albert, assignor.)
Glenn, Ralph W., Fruitvale, Cal. Hose-reel. No. 1,017,532; Feb. 13; Sp. p. 2870; Gaz. Vol. 175; p. 484.
Glenn, William G., Toronto, Ontario, Canada. Button for tobacco-pipes. No. 1,027,838; May 28; Sp. p. 6002; Gaz. vol. 178; p. 1041.
Glenz, Albert A., Fall Creek, Wis. Shield for transmission-gearing of automobiles. No. 1,042,548; Oct. 29; Gaz. vol. 183; p. 1101.
Glerum, Ingebrigt J., Devils Lake, N. D. Life-line projectile. No. 1,017,745; Feb. 20; Sp. p. 3301; Gaz. vol. 175; p. 591.
Glerum, Ingebrigt J., Devils Lake, N. D. Pneumatic gun for throwing life-lines. No. 1,017,746; Feb. 20; Sp. p. 3302; Gaz. vol. 175; p. 591.
Glessner, Arthur W. (See Scherer, Albert G., assignor.)
Glick, Monroe J., Hume, Ill. Corn-harvester. No. 1,043,313; Nov. 5; Gaz. vol. 184; p. 96.
Glidden, John E., insane, deceased, Beverly, Mass.; S. E. Glidden, guardian and administratrix, assignor to United Shoe Machinery Company, Paterson, N. J. Heel-compressor. No. 1,017,406; Feb. 13; Sp. p. 2599; Gaz. vol. 175; p. 441.
Glidden, Sadie E., guardian and administratrix. (See Glidden, John E.)
Glier, Reinhardt, Klingenthal, Germany. Operating mechanism for automatic accordions and the like. No. 1,018,661; Feb. 27; Sp. p. 5418; Gaz. vol. 175; p. 939.
Glines, Robert C., and H. A. Stier, Orcutt, Cal. Tubing or casing spear. No. 1,041,268; Oct. 15; Gaz. vol. 183; p. 606.
Glisar, George E., Sawyer, N. D. Means for attaching conveyer-slats. No. 1,015,558; Jan. 23; Sp. p. 5448; Gaz. vol. 174; p. 932.
Glissman, Harry J., Kennedy, Ind. Valve-gear. No. 1,047,906; Dec. 17; Gaz. vol. 185; p. 805.
Globe Ear-Phone Company. (See Hastings, Kenneth B., assignor.)
Globe Printing Telegraph Company. (See Kinsley, Carl, assignor.)
Globe Telephone Company, The. (See McGonigle, Charles W., assignor.)
Glor, Robert M., Attica, N. Y. Manger. No. 1,018,611; Feb. 27; Sp. p. 5313; Gaz. vol. 175; p. 922.
Glosh, Frederick P., assignor to The National-Acme Manufacturing Company, Cleveland, Ohio. Overload-clutch. No. 1,033,794; July 30; Gaz. vol. 180; p. 1151.
Glossinger, John, assignor to Manhattan Briar Pipe Company, New York, N. Y. Case for smoking-pipes. No. 1,033,312; July 23; Gaz. vol. 180; p. 969.
Glossinger, John, assignor to Manhattan Briar Pipe Company, New York, N. Y. Smoking-pipe. No. 1,038,564; Sept. 17; Gaz. vol. 182; p. 535.
Glossop, Henry R., Friday Harbor, Wash. Plant-setting device. No. 1,044,374; Nov. 12; Gaz. vol. 184; p. 494.
Glover, Alfred L., Revere, Mass. Office-roster. No. 1,033,096; July 23; Gaz. vol. 180; p. 894.
Glover, Charles, and C. Holt, assignors to Corbin Screw Corporation, New Britain, Conn. Head-shaping machine. No. 1,021,736; Mar. 26; Sp. p. 5773; Gaz. vol. 176; p. 1037.
Glover, Charles and C. Holt, assignors, by mesne assignments, to The American Hardware Corporation, New Britain, Conn. Head-shaping machine. No. 1,027,383; May 21; Sp. p. 5060; Gaz. vol. 178; p. 852.
Glover, Frederick J., Silvis, Ill. Pipe-coupling. No. 1,037,238; Sept. 3; Gaz. vol. 182; p. 21.
Glover, John B., Brooklyn, N. Y. Fire-escape. No. 1,028,453; June 4; Sp. p. 862; Gaz. vol. 179; p. 129.
Glover, John P., Leeds, England. Aerial machine. No. 1,044,375; Nov. 12; Gaz. vol. 184; p. 494.
Glover, William W., Torrington, Wyo. Shade-roller and curtain-rod support. No. 1,043,417; Nov. 5; Gaz. vol. 184; p. 132.
Glowacki, Francisek, and S. Krzyzak, Chicago, Ill. Hair-comb. No. 1,016,007; Jan. 30; Sp. p. 6410; Gaz. vol. 174; p. 1115.
Glowacki, John B., Chicago, Ill. Sash-inserting tool. No. 1,043,921; Nov. 12; Gaz. vol. 184; p. 339.
Glowacki, Kasimierz. (See Jasiecki and Glowacki.)
Gluckman, Michael, New York, N. Y. Box for folding papers. No. 1,016,884; Feb. 6; Sp. p. 1430; Gaz. vol. 175; p. 222.
Gluckman, Michael, New York, N. Y. Paper box. No. 1,043,091; Nov. 5; Gaz. vol. 184; p. 15.
Glynn, William J. (See Stauffer, Floyd F., assignor.)
Gnoeth, Emil, Madisonville, Ohio. Variable-speed planetary gearing. No. 1,028,347; June 4; Sp. p. 623; Gaz. vol. 179; p. 92.
Goad, Lawrence, Jr., Arcata, Cal. Saw-gumming machine. No. 1,015,731; Jan. 23; Sp. p. 5818; Gaz. vol. 174; p. 992.
Göbel, Heinrich, Jr. (See Wieghard and Göbel.)
Gobell, Claud, Quincy, Ill. Self-tying baling-press. No. 1,030,398; June 25; Sp. p. 5096; Gaz. vol. 179; p. 908.
Goble, Ellsworth, Louisville, Ky. Clamp. No. 1,015,171; Jan. 16; Sp. p. 4588; Gaz. vol. 174; p. 774.
Goble, Milton M., Grand Rapids, Mich. Rail support and tie. No. 1,031,177; July 2; Gaz. vol. 180; p. 117.
Goddard, Arthur L., Rockford, Ill. Metal-working punch. No. 1,037,896; Sept. 10; Gaz. vol. 182; p. 274.
Goddard, Clarence A., Akron, Ohio. Flash-light apparatus for photography. No. 1,049,077; Dec. 31; Gaz. vol. 185; p. 1270.
Goddard, Joseph, and F. F. Dorsey, assignors to Seneca Camera Manufacturing Company, Rochester, N. Y. Roller-blind shutter. No. 1,027,329; May 21; Sp. p. 4948; Gaz. vol. 178; p. 833.
Godding, Milon O., Portland, Oreg. Emergency-brake. No. 1,019,146; Mar. 5; Sp. p. 314; Gaz. vol. 176; p. 49.
Godding, Milon O., Portland, Oreg. Safety appliance. No. 1,039,517; Sept. 24; Gaz. vol. 182; p. 882.
Goddu, George, Winchester, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Shank-trimming machine. No. 1,018,045; Feb. 20; Sp. p. 4028; Gaz. vol. 175; p. 697.
Goddu, George, Winchester, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for making lacing-hooks. No. 1,030,725; June 25; Sp. p. 6009; Gaz. vol. 179; p. 1025.
Goddu, George, Winchester, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for inserting fastenings. No. 1,030,775; June 25; Sp. p. 6153; Gaz. vol. 179; p. 1043.
Goddu, George, Winchester, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Work-support-actuating mechanism. No. 1,031,438; July 2; Gaz. vol. 180; p. 206.
Goddu, George, Winchester, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for inserting fastenings. No. 1,033,313; July 23; Gaz. vol. 180; p. 969.
Goddu, George, Winchester, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for inserting fastenings. No. 1,045,784; Nov. 26; Gaz. vol. 184; p. 1046.
Goddu, George, Winchester, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Fastener supplying and delivering mechanism. No. 1,047,202; Dec. 17; Gaz. vol. 185; p. 556.
Goddu, George, Winchester, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Welt-attaching apparatus. No. 1,048,149; Dec. 24; Gaz. vol. 185; p. 914.
Goddu, Louis, Winchester, Mass., assignor to Goddu Sewing Machine Company, Portland, Me. Shoe-sewing machine. No. 1,030,995; July 2; Gaz. vol. 180; p. 51.
Goddu Sewing Machine Company. (See Goddu, Louis, assignor.)
Godfree, Ernest G., and F. R. Whitelaw, Sandringham, near Melbourne, Victoria, Australia. Adjustable water sprinkler or sprayer. No. 1,034,613; Aug. 6; Gaz. vol. 181; p. 69.
Godfrey, George L., New York, N. Y. Weather-strip. No. 1,048,407; Dec. 24; Gaz. vol. 185; p. 999.
Godfrey, Mark, R. Ekron, and H. M. Svebilius, Chicago, Ill.; said Godfrey and Svebilius assignors to said Ekron. Station-indicator. No. 1,013,485; Jan. 2; Sp. p. 863; Gaz. vol. 174; p. 138.
Godfrey, William. (See Beardsley, Frank E., assignor.)
Godin, Eusebe, assignor to T. J. Wilber, Harrisville, N. Y. Spring-block set for saws. No. 1,040,928; Oct. 8; Gaz. vol. 183; p. 456.
Godinez, Francisco L., Jersey City, N. J., and A. J. Marshall, assignors to Godinez-Marshall Company, New York, N. Y. Lamp. No. 1,019,246; Mar. 5; Sp. p. 528; Gaz. vol. 176; p. 84.
Godinez-Marshall Company. (See Godinez and Marshall, assignors.)
Goding, Edwin L., Springvale, assignor to O. A. Miller Treeing Machine Company, Portland, Me. Last. No. 1,048,525; Dec. 31; Gaz. vol. 185; p. 1079.
Godley, Charles E., assignor to The Edmunds & Jones Mfg. Co., Detroit, Mich. Oil-lamp. No. 1,044,775; Nov. 19; Gaz. vol. 184; p. 665.
Godley, George F., Philadelphia, Pa. Dust-guard. No. 1,040,308; Oct. 8; Gaz. vol. 183; p. 244.
Godsal, Philip T., Flintshire, near Whitchurch, England. Rifle. No. 1,037,468; Sept. 3; Gaz. vol. 182; p. 100.
Goebel, Alois, Marble Falls, Tex. Aeroplane. No. 1,043,222; Nov. 5; Gaz. vol. 184; p. 64.
Goebel, Bruno G. K. (See Volkening, Walter, assignor.)

Alphabetical list of patentees—Continued.

Goebel, Carl, assignor to Class & Flentje Gesellschaft mit beschränkter Haftung, Mülhausen, Germany. Automatic take-up device for flat-knitting machines. No. 1,022,233; Apr. 2; Sp. p. 1025; Gaz. vol. 177; p. 163.
Goebel, Franz, Hann-Münden, Germany. Free-wheel back-pedaling brake. No. 1,023,076; Apr. 9; Sp. p. 2813; Gaz. vol. 177; p. 479.
Goebel, Fritz, *et al.* (See Jennings, Jarvis S., Jr., assignor.)
Goebel, Jean, Darmstadt, Germany. Manufacturing perforated tear-off paper and like blocks. No. 1,025,620; May 7; Sp. p. 1159; Gaz. vol. 178; p. 177.
Goebel, Julius C. (See Horst and Goebel.)
Goedeke, Fred W. (See Northall, William H., assignor.)
Goedike, George G., Cincinnati, assignor to U. S. Lithograph Company, Norwood, Ohio. Lithographic press. No. 1,027,722; May 28; Sp. p. 5745; Gaz. vol. 178; p. 1002.
Goebler, Max, Vancouver, British Columbia, Canada. Portable power-operated saw. No. 1,041,777; Oct. 22; Gaz. vol. 183; p. 811.
Goehr, Louis, San Francisco, Cal. Merchandise-chute. No. 1,013,292; Jan. 2; Sp. p. 459; Gaz. vol. 174; p. 71.
Goehr, Louis, San Francisco, Cal. Dish-drying rack. No. 1,022,544; Apr. 9; Sp. p. 1666; Gaz. vol. 177; p. 296.
Goehst, John H., assignor to Federal Electric Company, Chicago, Ill. Electric-lamp socket. No. 1,017,260; Feb. 13; Sp. p. 2296; Gaz. vol. 175; p. 390.
Goehst, John H., and R. G. Carpenter, assignors to The Federal Electric Company, Chicago, Ill. Power-table for kitchen utensils. No. 1,014,217; Jan. 9; Sp. p. 2494; Gaz. vol. 174; p. 419.
Goehst, John H., and R. G. Carpenter, Chicago, Ill., assignors to Federal Electric Company. Gearing. No. 1,032,666; July 16; Gaz. vol. 180; p. 712.
Goelitz, Gustav A., Kansas City, Mo. Top trim for candy-pails. No. 1,026,435; May 14; Sp. p. 2969; Gaz. vol. 178; p. 491.
Goellman, Frank, Leigh, Nebr. Stock-waterer. No. 1,035,179; Aug. 13; Gaz. vol. 181; p. 291.
Goerdes, Frederick W., assignor to American Button Company, Newark, N. J. Igniter. No. 1,044,165; Nov. 12; Gaz. vol. 184; p. 422.
Goerman, Michael, Manorville, assignor of one-third to J. E. Callen, Ford City, Pa. Attachment for trolley-wheels. No. 1,031,256; July 2; Gaz. vol. 180; p. 144.
Goersch, Friedrich W. J., Cleveland, Ohio. Wheel-hub. No. 1,021,247; Mar. 26; Sp. p. 4765; Gaz. vol. 176; p. 870.
Goessling, William F., H. E. Pauk, C. M. Kachel, and O. A. Heckel, St. Louis, Mo., assignors to Clothmeter Manufacturing Company. Cloth-measuring and price-computing machine. No. 1,032,538; July 16; Gaz. vol. 180; p. 667.
Goetter, Charles, Chicago, Ill. Combination step-ladder and bench. No. 1,021,094; Mar. 26; Sp. p. 4429; Gaz. vol. 176; p. 820.
Goetz & Flodin Manufacturing Company. (See Bees, William H., assignor.)
Goetz, George, assignor to Streeter-Amet Weighing & Recording Company, Chicago, Ill. Automatic weighing and recording mining-car scale. No. 1,017,747; Feb. 20; Sp. p. 3306; Gaz. vol. 175; p. 592.
Goetz, George, assignor to Streeter-Amet Weighing & Recording Company, Chicago, Ill. Scale for weighing and recording weights of cars. No. 1,032,667; July 16; Gaz. vol. 180; p. 712.
Goetz, Henry F., assignor to Waterbury Mfg. Co., Waterbury, Conn. Hose-nozzle. No. 1,017,966; Feb. 20; Sp. p. 3861; Gaz. vol. 175; p. 668.
Goetz, Henry F., assignor to Waterbury Mfg. Co., Waterbury, Conn. Jewel-cup. No. 1,039,516; Sept. 24; Gaz. vol. 182; p. 882.
Goetz, Herman. (See Sherman and Goetz.)
Goetz, John B. (See Wilhelm and Goetz.)
Goetzinger, Charles P., assignor of one-half to J. H. Milam and one-fourth to J. W. Thomas, Guthrie, Okla. Rail-joint. No. 1,026,088; May 14; Sp. p. 2214; Gaz. vol. 178; p. 373.
Goewey, James E., Newark, N. J. Expansion-bolt. No. 1,014,144; Jan. 9; Sp. p. 2346; Gaz. vol. 174; p. 392.
Goff, Abbot P. (See Buehler and Goff.)
Goff, Daniel, Millville, assignor to Goff Gravity Boiler Feed Company, Camden, N. J. Smoke and gas consumer for locomotives. No. 1,014,387; Jan. 9; Sp. p. 2895; Gaz. vol. 174; p. 479.
Goff, Daniel, Millville, assignor to Goff Gravity Boiler Feed Company, Camden, N. J. Smoke and gas consumer for locomotives. No. 1,028,348; June 4; Sp. p. 629; Gaz. vol. 179; p. 93.
Goff, Daniel, Millville, assignor to Goff Gravity Boiler Feed Company, Camden, N. J. Locomotive-furnace. No. 1,046,583; Dec. 10; Gaz. vol. 185; p. 312.
Goff, Frank, Camden, N. J. Air-brake. No. 1,042,666; Oct. 29; Gaz. vol. 183; p. 1144.
Goff, George W., East Hampton, Conn. Bell. No. 1,029,286; June 11; Sp. p. 2630; Gaz. vol. 179; p. 446.
Goff Gravity Boiler Feed Company. (See Goff, Daniel, assignor.)
Goff, Samuel B., Camden, N. J. Glass-furnace. No. 1,013,486; Jan. 2; Sp. p. 869; Gaz. vol. 174; p. 139.
Goff, Samuel B., Camden, N. J. Furnace. No. 1,015,014; Jan. 16; Sp. p. 4296; Gaz. vol. 174; p. 722.
Goff, Samuel B., Camden, N. J. Steamer. No. 1,026,390; May 14; Sp. p. 2873; Gaz. vol. 178; p. 476.
Goff, Samuel B., Camden, N. J. Fountain-syringe. No. 1,042,549; Oct. 29; Gaz. vol. 183; p. 1101.
Goff, Samuel B., Camden, N. J. Sewage-disposal plant. No. 1,046,172; Dec. 3; Gaz. vol. 185; p. 128.
Goff, Samuel B., Camden, N. J. Device for labeling bottles. No. 1,048,680; Dec. 31; Gaz. vol. 185; p. 1134.
Gogel, Sol, and M. Bernstein, Toronto, Ontario, Canada; said Gogel assignor to said Bernstein. Button. No. 1,027,473; May 28; Sp. p. 5243; Gaz. vol. 178; p. 920.
Goggin, Patrick T. (See Dowd and Goggin.)
Gohlke, Max, Pankow, near Berlin, assignor to Deutsche Waffen- und Munitions-fabriken, Berlin, Germany. Forming ball-holders for ball-cages. No. 1,031,844; July 9; Gaz. vol. 180; p. 388.
Gohmann, Arthur, assignor to Stettiner Chamotte-Fabrik Actien-Gesellschaft vorm. Didier, Stettin, Germany. Gas-producing oven. No. 1,024,128; Apr. 23; Sp. p. 5078; Gaz. vol. 177; p. 894.
Gohmann, Arthur, assignor to Stettiner Chamotte-Fabrik Actien-Gesellschaft vorm. Didier, Stettin, Germany. Regenerative gas-producing oven. No. 1,039,270; Sept. 24; Gaz. vol. 182; p. 795.
Gohmann, Arthur, assignor to Stettiner Chamotte-Fabrik Actien-Gesellschaft vorm. Didier, Stettin, Germany. Regenerative coke-oven. No. 1,041,457; Oct. 15; Gaz. vol. 183; p. 668.
Gohmann, Arthur J., assignor to Anchor Stove & Range Company, New Albany, Ind. Hot-water heater. No. 1,025,084; Apr. 30; Sp. p. 7165; Gaz. vol. 177; p. 1257.
Goin, Elmer F., Nardin, Okla. Word-counting attachment for type-writers and type-setting machines. No. 1,030,075; June 18; Sp. p. 4379; Gaz. vol. 179; p. 755.
Goin, John K., St. Louis, Mo. Form or mold for concrete. No. 1,016,140; Jan. 30; Sp. p. 6684; Gaz. vol. 174; p. 1161.
Going, Thomas E., Chemainus, British Columbia, assignor of one-half to J. O. Cameron, Victoria, Canada. Combined wedge and clamp for holding loggers' falling-boards. No. 1,018,899; Feb. 27; Sp. p. 5911; Gaz. vol. 175; p. 1020.
Golby, Frederick W., and J. S. Patterson, London, assignors to L. M. Pantzer, Streatham Hill, England. Theatrical device. No. 1,045,138; Nov. 26; Gaz. vol. 184; p. 817.
Gold Buckle Association. (See Van Duyne, Richard D., assignor.)
Gold Car Heating & Lighting Company. (See Gold, Edward E., assignor.)
Gold Car Heating & Lighting Company. (See Smith, Franklin H., assignor.)
Gold, Edgar L., and J. H. Messinger, Nazareth, Pa. Demountable rim. No. 1,045,018; Nov. 19; Gaz. vol. 184; p. 748.
Gold, Edward E., New York, N. Y. Steam-heating system. No. 1,014,296; Jan. 9; Sp. p. 2675; Gaz. vol. 174; p. 446.
Gold, Edward E., New York, N. Y. Steam-hose. No. 1,015,311; Jan. 23; Sp. p. 4901; Gaz. vol. 174; p. 849.
Gold, Edward E., New York, N. Y. Lock for couplings. No. 1,021,982; Apr. 2; Sp. p. 495; Gaz. vol. 177; p. 79.
Gold, Edward E., New York, N. Y. Convertible steam car-heater. No. 1,024,626; Apr. 30; Sp. p. 6234; Gaz. vol. 177; p. 1099.
Gold, Edward E., New York, N. Y. Valve for steam-heating systems. No. 1,024,723; Apr. 30; Sp. p. 6430; Gaz. vol. 177; p. 1135.
Gold, Edward E., New York, N. Y. Heating system. No. 1,036,827; Aug. 27; Gaz. vol. 181; p. 925.
Gold, Edward E., assignor to Gold Car Heating & Lighting Company, New York, N. Y. Wind-operated ventilator. No. 1,041,616; Oct. 15; Gaz. vol. 183; p. 718.
Gold, Edward E., assignor to Gold Car Heating & Lighting Company, New York, N. Y. Thermostat. No. 1,042,104; Oct. 22; Gaz. vol. 183; p. 923.
Gold, Edward E., assignor to Gold Car Heating & Lighting Company, New York, N. Y. Steam-trap. No. 1,043,046; Oct. 29; Gaz. vol. 183; p. 1274.
Gold, Edward E., assignor to Gold Car Heating & Lighting Company, New York, N. Y. Heating system. No. 1,043,922; Nov. 12; Gaz. vol. 184; p. 339.
Gold, Edward E., assignor to Gold Car Heating & Lighting Company, New York, N. Y. Coupling-lock. No. 1,044,166; Nov. 12; Gaz. vol. 184; p. 422.
Gold, Edward E., assignor to Gold Car Heating & Lighting Company, New York, N. Y. Heating system. No. 1,046,458; Dec. 10; Gaz. vol. 185; p. 267.
Gold, Edward E., assignor to Gold Car Heating & Lighting Company, New York, N. Y. Lock for couplings. No. 1,046,459; Dec. 10; Gaz. vol. 185; p. 268.
Gold, Edward E., assignor to Gold Car Heating & Lighting Company, New York, N. Y. Lock for couplings. No. 1,046,460; Dec. 10; Gaz. vol. 185; p. 268.
Gold, Egbert H. (See Coggin and Gold.)
Gold, Egbert H. (See Manchester and Gold.)

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Gold, Egbert H., Chicago, Ill. Hose-coupling. No 1,024,627; Apr. 30; Sp. p. 6236; Gaz. vol. 177; p. 1099.
Goldau, Hugo, Züllichau, Germany. Apparatus for flushing water-closets and the like. No. 1,038,347; Sept. 10; Gaz. vol. 182; p. 425.
Goldberg, Abraham, New York, N. Y. Garment. No. 1,013,764; Jan. 2; Sp. p. 1490; Gaz. vol. 174; p. 236.
Goldberg, Abraham, New York, N. Y. Garment. No. 1,022,190; Apr. 2; Sp. p. 927; Gaz. vol. 177; p. 148.
Goldberg, Abraham, New York, N. Y. Garment-sleeve. No. 1,046,173; Dec. 3; Gaz. vol. 185; p. 128.
Goldberg Calculating Machine Company. (See Goldberg, Hyman E., assignor.)
Goldberg, Edward, Malden, Mass. Ventilator for houses. No. 1,014,058; Jan. 9; Sp. p. 2171; Gaz. vol. 174; p. 363.
Goldberg, Hyman E., Chicago, Ill. Conductive ink. No. 1,034,104; July 30; Gaz. vol. 180; p. 1262.
Goldberg, Hyman E., Chicago, Ill. Metallizing electrotype-molds. No. 1,037,469; Sept. 3; Gaz. vol. 182; p. 100.
Goldberg, Hyman E., assignor to Goldberg Calculating Machine Company, Chicago, Ill. Calculating-machine. No. 1,029,678; June 18; Sp. p. 3490; Gaz. vol. 179; p. 618.
Goldberg, Hyman E., assignor of one-half to R. P. Lamont, Chicago, Ill. Conductive ink. No. 1,034,103; July 30; Gaz. vol. 180; p. 1262.
Goldberg, Hyman E., assignor to The Miehle Printing Press & Manufacturing Company, Chicago, Ill. Bed-movement for printing-presses. No. 1,048,681; Dec. 31; Gaz. vol. 185; p. 1134.
Goldberg, Isaac, New Orleans, La. Belt-retainer. No. 1,031,783; July 9; Gaz. vol. 180; p. 366.
Goldberg, Lawrence, *et al.* (See Zavodnik, David, assignor.)
Goldberg, Leroy, *et al.* (See Swindell, Walter B., assignor.)
Goldberg, Richard, Holyoke, Mass. Waist. No. 1,036,218; Aug. 20; Gaz. vol. 181; p. 688.
Goldberg, Samuel. (See Ingram, Horace G., assignor.)
Goldberg, Samuel. (See Ingram and Derickson, assignors.)
Goldberg, Solomon H. (See Sisson, Isaac H., assignor.)
Goldberg & Sons, Meyer, *et al.* (See Zavodnik, David, assignor.)
Golde, Traugott, Gera, Germany. Folding top for vehicles. No. 1,034,899; Aug. 6; Gaz. vol. 181; p. 167.
Golde, Traugott, Gera, Germany. Vehicle-hood. No. 1,034,900; Aug. 6; Gaz. vol. 181; p. 167.
Golde, Traugott, Gera, Germany. Vehicle-hood. No. 1,034,901; Aug. 6; Gaz. vol. 181; p. 167.
Golde, Traugott, Gera, Germany. Hinged vehicle-hood. No. 1,034,902; Aug. 6; Gaz. vol. 181; p. 168.
Golde, Traugott, Gera, Germany. Hinged vehicle-hood. No. 1,034,903; Aug. 6; Gaz. vol. 181; p. 168.
Golde, Traugott, Gera, Germany. Hinged vehicle-hood. No. 1,034,904; Aug. 6; Gaz. vol. 181; p. 168.
Golde, Traugott, Passaic, N. J. Hinged vehicle-hood. No. 1,034,905; Aug. 6; Gaz. vol. 181; p. 168.
Golde, Traugott, Passaic, N. J. Hinged vehicle-hood. No. 1,034,906; Aug. 6; Gaz. vol. 181; p. 168.
Golden, Daniel J., Randolph, Mass. Sporting-shoe. No. 1,039,518; Sept. 24; Gaz. vol. 182; p. 883.
Golden, George W., Detroit, Mich. Mold. No. 1,027,042; May 21; Sp. p. 4339; Gaz. vol. 178; p. 736.
Golden, Irving B., Toledo, Ohio. Dough retainer or trough. No. 1,040,929; Oct. 8; Gaz. vol. 183; p. 456.
Golden, James W., Hodges, Mont. Fence-post. No. 1,022,314; Apr. 2; Sp. p. 1169; Gaz. vol. 177; p. 188.
Golden, John W., Johnstown, Pa. Flower-holder. No. 1,016,822; Feb. 6; Sp. p. 1309; Gaz. vol. 175; p. 201.
Golden, Joseph A., *et al.* (See Uebelmesser, Charles R., assignor.)
Golden, Joseph A., *et al.* (See Urie, John, assignor.)
Golden, Maximilian K., Detroit, Mich. Shock-absorbing device. No. 1,015,015; Jan. 16; Sp. p. 4297; Gaz. vol. 174; p. 722.
Golden, Maximilian K., assignor to Crown Hat Manfg. Co., Detroit, Mich. Welt-trimming attachment for sewing-machines. No. 1,049,078; Dec. 31; Gaz. vol. 185; p. 1270.
Golden, Willis R., Atlanta, Ga. Metallic skeleton space-block for gin-saws. No. 1,016,742; Feb. 6; Sp. p. 1141; Gaz. vol. 175; p. 176.
Goldman, Ben. (See Micon, David, assignor.)
Goldman, Ella E., executrix. (See Goldman, Isaac S.)
Goldman, Isaac S., deceased, Los Angeles, assignor of one-half to L. S. Hackney, Pasadena; E. E. Goldman, executrix, assignor of one-half to E. E. Goldman, Los Angeles, Cal. Fruit pitter and splitter. No. 1,047,786; Dec. 17; Gaz. vol. 185; p. 763.
Goldman, Joseph. (See Campbell, William A., assignor.)
Goldman, Samuel S. (See Appel and Goldman.)
Goldman, Sigmund L., Chicago, Ill. Filter. No. 1,017,867; Feb. 20; Sp. p. 3619; Gaz. vol. 175; p. 633.
Goldman, Sigmund L., Chicago, Ill. Cleaning bottles. No. 1,018,046; Feb. 20; Sp. p. 4030; Gaz. vol. 175; p. 697.
Goldner, George E., Fort Dodge, Iowa. Brick-carrier. No. 1,039,382; Sept. 24; Gaz. vol. 182; p. 834.
Goldring, Maurice. (See Bates, Benjamin, assignor.)
Goldsborough, Charles F., and A. B. Grewe; said Grewe assignor to N. B. Goldsborough and said Charles F. Goldsborough assignor of one-fourth to L. B. Durnil, Monett, Mo. Rotary pump. No. 1,046,174; Dec. 3; Gaz. vol. 185; p. 128.
Goldsborough, Norman B., *et al.* (See Goldsborough and Grewe, assignors.)
Goldschmidt Detinning Company. (See Spitz, Gustav, assignor.)
Goldschmidt, Rudolf, Darmstadt, Germany. Rotor for electric machines. No. 1,043,047; Oct. 29; Gaz. vol. 183; p. 1275.
Goldschmidt, Rudolf, Darmstadt, Germany. Strengthening electric alternating currents. No. 1,043,923; Nov. 12; Gaz. vol. 184; p. 339.
Goldschmidt, Th. (See Weber, Josef, assignor.)
Goldschmidt Thermit Company. (See Lucas, Anton, assignor.)
Goldsman, Alexander, assignor of one-half to A. Matzner, New York, N. Y. Bolt and nut. No. 1,035,118; Aug. 6; Gaz. vol. 181; p. 238.
Goldsmith, Byron B., New York, N. Y. Indurated albuminoid compound. No. 1,027,121; May 21; Sp. 4541; Gaz. vol. 178; p. 763.
Goldsmith, Byron B., New York, N. Y. Indurated casein compound. No. 1,027,122; May 21; Sp. p. 4543; Gaz. vol. 178; p. 763.
Goldsmith, Frederick E., Middletown, assignor to The Ceramic Machinery Company, Hamilton, Ohio. Machine for coating. No. 1,027,414; May 28; Sp. p. 5135; Gaz. vol. 178; p. 901.
Goldsmith, Frederick E., assignor to The Ceramic Machinery Company, Hamilton, Ohio. Machine for coating tiles, &c. No. 1,035,959; Aug. 20; Gaz. vol. 181; p. 595.
Goldsmith, Marcus T., Newark, N. J. Coil-guard for safety-pins. No. 1,030,076; June 18; Sp. p. 4381; Gaz. vol. 179; p. 756.
Goldsmith, Max S., Cincinnati, assignor, by mesne assignments, to The Cellular Metal Company, St. Bernard, Ohio. Metallic lath. No. 1,029,864; June 18; Sp. p. 3926; Gaz. vol. 179; p. 683.
Goldsmith, Paul J., New York, N. Y. Bag. No. 1,045,390; Nov. 26; Gaz. vol. 184; p. 904.
Goldsmith, William H., Jr. (See Blake and Goldsmith.)
Goldstein, Martin, assignor of one-half to E. H. Harper, Keystone, W. Va. Razor-sterilizer. No. 1,020,038; Mar. 12; Sp. p. 2199; Gaz. vol. 176; p. 379.
Goldstein, Martin, assignor of one-half to E. H. Harper, Keystone, W. Va. Street-sweeper. No. 1,047,403; Dec. 17; Gaz. vol. 185; p. 628.
Goldstein, Morris, assignor to Exold Manufacturing Company, New York, N. Y. Paint and varnish remover. No. 1,045,785; Nov. 26; Gaz. vol. 184; p. 1046.
Goldstine, William H., Flint, Mich. Lower crank-case for combustion-engines. No. 1,022,413; Apr. 9; Sp. p. 1375; Gaz. vol. 177; p. 252.
Goldstraw, Robert S., Camperdown, Victoria, Australia. Teat-cup support to facilitate milking. No. 1,037,897; Sept. 10; Gaz. vol. 182; p. 274.
Goldsworthy, Ernest J. (See Taliaferro and Goldsworthy.)
Goldwater, Henry, Aberdeen, Wash. T-square. No. 1,045,695; Nov. 26; Gaz. vol. 184; p. 1015.
Golek, Mike, Crosby, Wyo. Nut-cracking device. No. 1,038,873; Sept. 17; Gaz. vol. 182; p. 643.
Golloher, Charles H., Gloster, Miss. Cotton-seed delinter. No. 1,019,955; Mar. 12; Sp. p. 2028; Gaz. vol. 176; p. 350.
Golsan, William R. (See Perkins, James T., assignor.)
Golsteÿn, Willem, Amsterdam, Netherlands. Device for cutting or destroying torpedo-nets. No. 1,031,997; July 9; Gaz. vol. 180; p. 436.
Golsteÿn, Willem, Amsterdam, Netherlands. Device for destroying torpedo-nets. No. 1,034,999; Aug. 6; Gaz. vol. 181; p. 200.
Goltman, Rebecca, Montreal, Quebec, Canada. Glove-stretcher. No. 1,048,682; Dec. 31; Gaz. vol. 185; p. 1134.
Goltra, Edward F., St. Louis, Mo. Treated iron ore. No. 1,035,960; Aug. 20; Gaz. vol. 181; p. 595.
Goltra, William F., Cleveland, Ohio. Preserving wood from decay. No. 1,047,404; Dec. 17; Gaz. vol. 185; p. 628.
Goltra, William F., Cleveland, Ohio. Installation for treating railway-ties. No. 1,047,405; Dec. 17; Gaz. vol. 185; p. 628.
Goltra, William F., Cleveland, Ohio. Drying apparatus for railway-ties. No. 1,047,406; Dec. 17; Gaz. vol. 185; p. 628.
Goltry, Edwin L., Red Oak, Iowa. Spring-wheel. No. 1,046,289; Dec. 3; Gaz. vol. 185; p. 171.
Gomella, Stephen P., Tomsk, Russia. Slack-adjuster. No. 1,045,833; Dec. 3; Gaz. vol. 185; p. 13.
Gomez, Joseph, Jacksonville, Ill. Liquid-fuel burner. No. 1,024,070; Apr. 23; Sp. p. 4926; Gaz. vol. 177; p. 873.
Gompf, Rudolf, Berlin, Germany. Machine for numbering sheets. No. 1,038,348; Sept. 10; Gaz. vol. 182; p. 425.

Alphabetical list of patentees—Continued.

Gonard, Jean L., Coytesville, N. J. Machine for cutting concave facets in cut diamonds. No. 1,023,513; Apr. 16; Sp. p. 3747; Gaz. vol. 177; p. 662.
Gönczy, Joseph, Budapest, Austria-Hungary. Advertising device. No. 1,042,783; Oct. 29; Gaz. vol. 183; p. 1184.
Gonzalez, Alvin R., Los Angeles, Cal. Rail-fastener. No. 1,034,614; Aug. 6; Gaz. vol. 181; p. 70.
Gonzales, Charles J., Bancker, La. Harrow. No. 1,047,042; Dec. 10; Gaz. vol. 185; p. 469.
Gonzalez-Perez, Carlos, Madrid, Spain. Arc-lamp. No. 1,034,294; July 30; Gaz. vol. 180; p. 1328.
Gooch-Koehler Specialty Manufacturing Company, The. (See Gooch, Shade W., assignor.)
Gooch, Shade W., New Brighton, assignor to The Gooch-Koehler Specialty Manufacturing Company, Rochester, Pa. Filing-machine. No. 1,047,889; Dec. 17; Gaz. vol. 185; p. 799.
Gooch, Shade W., New Brighton, assignor to The Gooch-Koehler Specialty Manufacturing Company, Rochester, Pa. Filing-machine. No. 1,048,683; Dec. 31; Gaz. vol. 185; p. 1135.
Gooch, Shade W., New Brighton, assignor to The Gooch-Koehler Specialty Manufacturing Company, Rochester, Pa. Filing-machine. No. 1,048,684; Dec. 31; Gaz. vol. 185; p. 1135.
Gooch, Shade W., New Brighton, assignor to The Gooch-Koehler Specialty Manufacturing Company, Rochester, Pa. Chipping or hammering tool. No. 1,048,685; Dec. 31; Gaz. vol. 185; p. 1135.
Good, Harry W., Lanark, Ill. Spring-wheel. No. 1,036,828; Aug. 27; Gaz. vol. 181; p. 926.
Good Inventions Co. (See Good, John, assignor.)
Good, John, New York, assignor to Good Inventions Co., Brooklyn, N. Y. Hackle-chain apparatus. No. 1,048,526; Dec. 31; Gaz. vol. 185; p. 1079.
Good, Titus E., Brunner, Tex. Safety-lock for keyholes. No. 1,022,474; Apr. 9; Sp. p. 1523; Gaz. vol. 177; p. 273.
Goodall, John N., Portsmouth, N. H. Pipe-coupling. No. 1,046,175; Dec. 3; Gaz. vol. 185; p. 129.
Goode, Conrad M., Dayton, Ohio. Clothes-rack. No. 1,035,575; Aug. 13; Gaz. vol. 181; p. 428.
Goodell Company. (See Mower, Fred G., assignor.)
Gooderham, Albert E., Toronto, Ontario, Canada. Automobile-front. No. 1,024,567; Apr. 30; Sp. p. 6097; Gaz. vol. 177; p. 1078.
Goodey, Ernest W., Philadelphia, Pa. Joint for rolled metal bars. No. 1,034,440; Aug. 6; Gaz. vol. 181; p. 14.
Goodfellow, Herbert R., assignor to U. S. Slicing Machine Company, Chicago, Ill. Device for sharpening the rotary circular knives of meat-slicing machines and the like. No. 1,033,795; July 30; Gaz. vol. 180; p. 1151.
Goodfriend, Henry, Yonkers, N. Y. Shade-holder. No. 1,039,519; Sept. 24; Gaz. vol. 182; p. 883.
Goodhart, Howard B., Macungie, assignor of one-third to G. J. Bogert, Emaus, one-third to R. R. Readinger, and one-third to H. F. Neumeyer, Macungie, Pa. Water-motor. No. 1,047,203; Dec. 17; Gaz. vol. 185; p. 557.
Goodhue, James E., St. Charles, Ill. Corn-husking machine. No. 1,040,663; Oct. 8; Gaz. vol. 183; p. 370.
Goodhugh, Thomas, Brockley, London, England. Artificial tooth. No. 1,042,105; Oct 22; Gaz. vol. 183; p. 924.
Goodier, James H. (See Howe, Clarence B., assignor.)
Goodin, Sebastion L., Farber, Mo. Wireless check-row corn-planter. No. 1,030,236; June 18; Sp. p. 4712; Gaz. vol. 179; p. 811.
Gooding, Russell. (See Dawson and Gooding.)
Goodknight, James L., Lincoln, Ill. Gear-box for awnings. No. 1,044,451; Nov. 12; Gaz. vol. 184; p. 520.
Goodlett, Joseph E. J., Memphis, Tenn. Atomizing-nozzle. No. 1,017,533; Feb. 13; Sp. p. 2871; Gaz. vol. 175; p. 484.
Goodman, Bessie S. (See Goodman and Ruff, assignors.)
Goodman, John, Hastings, Minn. Ice-crusher. No. 1,043,418; Nov. 5; Gaz. vol. 184; p. 133.
Goodman, Joseph E., and E. S. Ruff; said E. S. Ruff assignor to B. S. Goodman, Stockton, Cal. Vehicle-tire. No. 1,023,733; Apr. 16; Sp. p. 4161; Gaz. vol. 177; p. 730.
Goodman Manufacturing Company. (See Nevin, Nils D., assignor.)
Goodman, Milton F., assignor to Reliance Manufacturing Company, Chicago, Ill. Article of wearing-apparel. No. 1,048,150; Dec. 24; Gaz. vol. 185; p. 915.
Goodman, Samuel. (See Marshak, Jacob, assignor.)
Goodman, Samuel N., assignor, by mesne assignments, to Friedberger-Aaron Manufacturing Company, Philadelphia, Pa. Knitted trimming. No. 1,030,996; July 2; Gaz. vol. 180; p. 51.
Goodman, Siegfried, Bayonne, N. J. Inner-tube guard for pneumatic tires. No. 1,047,204; Dec. 17; Gaz. vol. 185; p. 557.
Goodman, Ward C., assignor of one-half to F. M. Shore, Walla Walla, Wash. Express-receipt-billing machine. No. 1,016,823; Feb. 6; Sp. p. 1310; Gaz. vol. 175; p. 201.
Goodman, William L., Coalinga, Cal. Gripping means for bench pipe-threaders. No. 1,047,932; Dec. 24; Gaz. vol. 185; p. 842.
Goodman, William T. (See Nelson, Bror A., assignor.)
Goodness, Frank A., Newport News, Va. Pin. No. 1,041,993; Oct. 22; Gaz. vol. 183; p. 886.
Goodnight, Gipson M., Thomasville, N. C. Stock-releasing apparatus. No. 1,015,797; Jan. 30; Sp. p. 5958; Gaz. vol. 174; p. 1042.
Goodnow, Earle W., assignor to The "New-Way" Motor Company, Lansing, Mich. Lubricator for explosion-engines. No. 1,037,239; Sept. 3; Gaz. vol. 182; p. 21.
Goodnow, Russell J. (See Edmonds and Goodnow.)
Goodnow, Russell J., Boston, Mass. Fluid-measuring device. No. 1,019,453; Mar. 5; Sp. p. 1030; Gaz. vol. 176; p. 152.
Goodnow, Russell J., Boston, Mass. Fruit and nut squeezer. No. 1,026,670; May 21; Sp. p. 3476; Gaz. vol. 178; p. 607.
Goodnow, William V., Atlanta, Ga. Sealing-press. No. 1,046,771; Dec. 10; Gaz. vol. 185; p. 380.
Goodpasture, Robert W., Celina, Tenn. Eyelet for engaging the bails of vessels. No. 1,039,271; Sept. 24; Gaz. vol. 182; p. 796.
Goodrich, Bertram B. (See Axt and Goodrich.)
Goodrich, Charles E., Daggett, Cal. Means for recovering dust and other materials. No. 1,041,617; Oct. 15; Gaz. vol. 183; p. 718.
Goodrich, Clarence L., assignor to Pratt & Whitney Company, Hartford, Conn. Attachment for turret-lathes. No. 1,041,994; Oct. 22; Gaz. vol. 183; p. 886.
Goodrich, David A., North Platte, Nebr. Fence structure. No. 1,048,451; Dec. 24; Gaz. vol. 185; p. 1014.
Goodrich, Emory W., Somerville, Mass. Slide-carrier for projection apparatus. No. 1,035,872; Aug 29; Gaz. vol. 181; p. 565.
Goodrich, Emory W., Boston, Mass. Projection apparatus. No. 1,038,349; Sept. 10; Gaz. vol. 182; p. 425.
Goodrich, George D., Somerville, Mass. Propulsion of vessels. No. 1,044,164; Nov. 12; Gaz. vol. 184; p. 421.
Goodrich, Harry C., Palisade, N. J. Mount for hooks, eyes, and loops. No. 1,019,735; Mar. 5; Sp. p. 1574; Gaz. vol. 176; p. 245.
Goodrich, Ralph B., Cincinnati, Ohio. Oscillatory motor. No. 1,044,042; Nov. 12; Gaz. vol. 184; p. 381.
Goodrick, Edward W., assignor to Oshkosh Excelsior Mfg. Co., Oshkosh, Wis. Apparatus for manufacturing packing-pads. No. 1,018,181; Feb. 20; Sp. p. 4337; Gaz. vol. 175; p. 745.
Goodrick, Edward W., Oshkosh, assignor to Wisconsin Grass Rug and Carpet Company, Fond du Lac, Wis. Grass-twine machine. No. 1,048,686; Dec. 31; Gaz. vol. 185; p. 1136.
Goodrick, Edward W., Oshkosh, assignor to Wisconsin Grass Rug and Carpet Company, Fond du Lac, Wis. Feeding device for grass-twine machines. No. 1,048,687; Dec. 31; Gaz. vol. 185; p. 1136.
Goodridge, Gilbert W., Bridgeport, Conn., assignor to The Bryant Electric Company. Shade-holder. No. 1,022,234; Apr. 2; Sp. p. 1028; Gaz. vol. 177; p. 164.
Goodridge, Gilbert W., assignor to The Bryant Electric Company, Bridgeport, Conn. Electric-lamp socket. No. 1,024,129; Apr. 23; Sp. p. 5083; Gaz. vol. 177; p. 894.
Goodridge, Gilbert W., assignor to The Bryant Electric Company, Bridgeport, Conn. Pendent electric-lamp socket, &c. No. 1,025,742; May 7; Sp. p. 1403; Gaz. vol. 178; p. 219.
Goodridge, Gilbert W., assignor to The Bryant Electric Company, Bridgeport, Conn. Shade-holder. No. 1,032,821; July 16; Gaz. vol. 180; p. 764.
Goodrum, Charles L. (See Lattig and Goodrum.)
Goodrum, Charles L., Philadelphia, Pa., assignor, by mesne assignments, to P. C. Burns, Chicago, Ill. Selective electrical signaling system. No. 1,026,029; May 14; Sp. p. 2055; Gaz. vol. 178; p. 352.
Goodrum, Charles L., Philadelphia, Pa., assignor, by mesne assignments, to Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Central-energy telephone system. No. 1,045,546; Nov. 26; Gaz. vol. 184; p. 963.
Goodrum, Charles L., Atlantic City, N. J., assignor, by mesne assignments, to Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Telephone system. No. 1,043,314; Nov. 5; Gaz. vol. 184; p. 97.
Goodsir, George, Jr., New York, N. Y., assignor to Ideal Coated Paper Co., Brookfield, Mass. Veneering-tape. No. 1,038,874; Sept. 17; Gaz. vol. 182; p. 644.
Goodspeed, Leland F., Wilkinsburg, Pa. Spark-timing device. No. 1,037,828; Sept. 3; Gaz. vol. 182; p. 217.
Goodspeed, Leland F., Milwaukee, Wis., assignor to The Westinghouse Air Brake Company, Pittsburgh, Pa. Speed-gear mechanism. No. 1,019,454; Mar. 5; Sp. p. 1032; Gaz. vol. 176; p. 152.
Goodspeed, Leland F., Milwaukee, Wis., assignor of one-half to H. H. Westinghouse, New York, N. Y. Fluid-pressure control device. (Reissue.) No. 13,417; May 14; Sp. p. 3418; Gaz. vol. 178; p. 563.
Goodway, Joseph A., Pittsburgh, Pa. Sterilizing-cabinet. No. 1,048,822; Dec. 31; Gaz. vol. 185; p. 1183.
Goodwin Car Company. (See Goodwin, Edward W., assignor.)
Goodwin, Charles, East Providence, R. I. Eyeglass-holder. No. 1,043,092; Nov. 5; Gaz. vol. 184; p. 15.

Alphabetical list of patentees—Continued.

Goodwin, Edward L., Portland, Mich. Washing-machine. No. 1,022,475; Apr. 9; Sp. p. 1525; Gaz. vol. 177; p. 274.
Goodwin, Edward W., New York, N. Y., assignor to Goodwin Car Company, Chicago, Ill. Drop-door-operating mechanism for dumping-cars. No. 1,027,197; May 21; Sp. p. 4682; Gaz. vol. 178; p. 787.
Goodwin, Edwin B., Puzzler, Colo. Agitating and grinding mechanism. No. 1,014,871; Jan. 16; Sp. p. 3982; Gaz. vol. 174; p. 673.
Goodwin, Elmer F. (See McClung, Emory, assignor.)
Goodwin, Elmer F., Clarksburg, W. Va. Door-sign. No. 1,029,497; June 11; Sp. p. 3098; Gaz. vol. 179; p. 520.
Goodwin, Ernest, Stamford Hill, London, assignor to Eley Brothers Limited, Edmonton, London, England. Detonating composition. No. 1,029,287; June 11; Sp. p. 2631; Gaz. vol. 179; p. 446.
Goodwin, Frank P., Sayre, Okla. Cultivator. No. 1,044,043; Nov. 12; Gaz. vol. 184; p. 381.
Goodwin, Frank T., Toronto, Ontario, Canada. Combined friction and positive clutch. No. 1,044,515; Nov. 19; Gaz. vol. 184; p. 572.
Goodwin, George. (See Reid, James H., assignor.)
Goodwin, George H., *et al.* (See Neville, Harry, assignor.)
Goodwin, John M., Spokane, Wash. Dumping-car-valve-operating mechanism. No. 1,027,198; May 21; Sp. p. 4686; Gaz. vol. 178; p. 787.
Goodwin, Joseph A., Berkley, Va. Flying-machine. No. 1,019,782; Mar. 12; Sp. p. 1676; Gaz. vol. 176; p. 292.
Goodwin, Joseph A., Millville, N. J. Monoplane. No. 1,025,085; Apr. 30; Sp. p. 7166; Gaz. vol. 177; p. 1257.
Goodwin, Joseph S., Stamford Hill, London, England. Electric-current regulator. No. 1,031,708; July 9; Gaz. vol. 180; p. 341.
Goodwin & Kintz Company, The. (See Goodwin, Winslow, assignor.)
Goodwin, Margaret B., assignor of one-half to D. W. Paine. Denver, Colo. Garment-fastening hook for women and children. No. 1,023,514; Apr. 16; Sp. p. 3751; Gaz. vol. 177; p. 663.
Goodwin, Waldmar O., Salina, Kans. Post-hole digger. No. 1,027,199; May 21; Sp. p. 4688; Gaz. vol. 178; p. 788.
Goodwin, William F., and G. Dawson, San Francisco, Cal. Automatic oil-stoker. No. 1,035,576; Aug. 13; Gaz. vol. 181; p. 428.
Goodwin, Winslow, assignor of one-half to The Goodwin & Kintz Company, Winsted, Conn. Electric-light fixture or electrolier. No. 1,041,458; Oct. 15; Gaz. vol. 183; p. 669.
Goodwin, Winslow, assignor of one-half to The Goodwin & Kintz Company, Winsted, Conn. Electric-light fixture or electrolier. No. 1,041,459; Oct. 15; Gaz. vol. 183; p. 669.
Goodwyn, Alfred E., Bluefield, W. Va. Faucet. No. 1,019,317; Mar. 5; Sp. p. 703; Gaz. vol. 176; p. 109.
Goodyear, Nelson. (See Earle, Reginald W., assignor.)
Goodyear, Nelson, New York, N. Y., assignor to Maine Development Corporation. Gas-generator. No. 1,031,709; July 9; Gaz. vol. 180; p. 341.
Goodyear Tire and Rubber Company, The. (See Falor, Clarence E., assignor.)
Goodyear Tire and Rubber Company, The. (See Hale, James E., assignor.)
Goold, Luella L., *et al.* (See Greeley, James T., assignor.)
Goolsby, William F., Livingston, Tenn. Fence-wire stretcher. No. 1,018,313; Feb. 20; Sp. p. 4591; Gaz. vol. 175; p. 788.
Goosens, Henry, Columbia, Ill. Side-track draft attachment for vehicles. No. 1,040,930; Oct. 8; Gaz. vol. 183; p. 456.
Goozey, Charles A., Woonsocket, R. I. Box. No. 1,040,931; Oct. 8; Gaz. vol. 183; p. 456.
Gopher Manufacturing Company, The. (See Whipple, Charles A., assignor.)
Goransson, Carl J., Springfield, Mass. Appliance for windows. No. 1,047,043; Dec. 10; Gaz. vol. 185; p. 469.
Gordon, Aaron. (See Maurer and Gordon.)
Gordon, Abraham, assignor, by mesne assignments, to Fireproof Ironing Board Co., New York, N. Y. Ironing-board. No. 1,032,331; July 9; Gaz. vol. 180; p. 553.
Gordon, Albert A., Jr., Worcester, Mass., assignor to Crompton & Knowles Loom Works. Weft-replenishing loom. No. 1,030,077; June 18; Sp. p. 4382; Gaz. vol. 179; p. 756.
Gordon, Charles D., administrator. (See Fuller, James T.)
Gordon, Clay, *et al.* (See Reed, Homer C., assignor.)
Gordon, Clay, assignor of one-half to C. R. Patterson and Sons, Greenfield, Ohio. Sliding door. No. 1,029,288; June 11; Sp. p. 2632; Gaz. vol. 179; p. 446.
Gordon, David D., Chicago, Ill. Switching device. No. 1,040,309; Oct. 8; Gaz. vol. 183; p. 245.
Gordon, David D., Chicago, Ill. Connecting device. No. 1,041,066; Oct. 15; Gaz. vol. 183; p. 537.
Gordon, David D., Chicago, Ill. Plug. No. 1,043,823; Nov. 12; Gaz. vol. 184; p. 304.
Gordon, F. M. (See Tessmer, Earl, assignor.)
Gordon, Harry, Boise, Idaho. Car-door-locking system. No. 1,034,615; Aug. 6; Gaz. vol. 181; p. 70.
Gordon, Ira F., Grand Rapids, Mich. Automatic pressure-governor. No. 1,046,176; Dec. 3; Gaz. vol. 185; p. 129.
Gordon, John, Jr., East Orange, N. J., assignor to The Sireno Company, New York, N. Y. Switch. No. 1,046,384; Dec. 3; Gaz. vol. 185; p. 204.
Gordon, John C., North Woodstock, N. H. Folding box. No. 1,027,200; May 21; Sp. p. 4694; Gaz. vol. 178; p. 789.
Gordon, Omer A. (See Witter and Gordon.)
Gordon, Peter J. (See Shackleford, Gordon, and McMillen.)
Gordon, Peter J., and R. T. Prall, Youngstown, Ohio. Furnace. No. 1,021,144; Mar. 26; Sp. p. 4531; Gaz. vol. 176; p. 835.
Gordon, Waldo C., Boston, assignor of one-half to H. J. Wilder, Norwood, Mass. Screw-driver. No. 1,020,141; Mar. 12; Sp. p. 2413; Gaz. vol. 176; p. 412.
Gordon, Wiley P., Lakeland, Fla. Coaster-brake. No. 1,022,937; Apr. 9; Sp. p. 2548; Gaz. vol. 177; p. 432.
Gordon, William, Philadelphia, Pa. Horseshoe-calk. No. 1,046,287; Dec. 3; Gaz. vol. 185; p. 170.
Gordon, William, Boston, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for beating out shoe-uppers. No. 1,030,578; June 25; Sp. p. 5594; Gaz. vol. 179; p. 972.
Gordon, William, Boston, and L. E. Topham, Somerville, Mass., assignors to United Shoe Machinery Company, Paterson, N. J. Machine for stamping boots and shoes. No. 1,028,567; June 4; Sp. p. 1093; Gaz. vol. 179; p. 166.
Gordon, William F. E., assignor of one-half to N. C. Nelson and one-fourth to H. J. Shook, Seattle, Wash. Lock. No. 1,018,756; Feb. 27; Sp. p. 5621; Gaz. vol. 175; p. 972.
Gore, Herbert C., Washington, D. C. Treating Japanese persimmons, &c. No. 1,015,950; Jan. 30; Sp. p. 6285; Gaz. vol. 174; p. 1094.
Goreau, Nelson G., New Orleans, La. Water-heater. No. 1,026,030; May 14; Sp. p. 2059; Gaz. vol. 178; p. 353.
Gores, Henry N., assignor to American Paper Products Company, St. Louis, Mo. Junction device for paper boxes. No. 1,014,297; Jan. 9; Sp. p. 2677; Gaz. vol. 174; p. 447.
Gorgas, Charles, Philadelphia, Pa. Dust-flue hood, ash-grate, and coal-economizer. No. 1,047,044; Dec. 10; Gaz. vol. 185; p. 469.
Gorham Manufacturing Company. (See Erichsen, Adolph C. E., assignor.)
Gorich, Max. (See Grünewald and Gorich.)
Gorin, Fred P., Chicago, Ill. Calendar. No. 1,042,337; Oct. 22; Gaz. vol. 183; p. 999.
Gorlick, Andrew J., Cleveland, Ohio, assignor to The Rickersberg Brass Company. Faucet and bib-cock. No. 1,022,071; Apr. 2; Sp. p. 677; Gaz. vol. 177; p. 108.
Gorman, David W., assignor to F. W. Webb Manufacturing Company, Boston, Mass. Tank-valve. No. 1,029,360; June 11; Sp. p. 2805; Gaz. vol. 179; p. 473.
Gorman, John, Peru, Ind. Railway cross-tie and supporting-plate. No. 1,021,145; Mar. 26; Sp. p. 4533; Gaz. vol. 176; p. 835.
Gorman, Lexie A., Germantown, Tenn. Rail-joint. No. 1,020,039; Mar. 12; Sp. p. 2200; Gaz. vol. 176; p. 379.
Gorman, Thomas J., Sr., Hudson Heights, N. J. Overshoe for horses. No. 1,028,709; June 4; Sp. p. 1376; Gaz. vol. 179; p. 214.
Gormley, Charles, Mount Morris, N. Y. Fertilizer-distributer. No. 1,032,132; July 9; Gaz. vol. 180; p. 483.
Gornto, Albert S., Norfolk, Va. Shade-fixture. No. 1,018,108; Feb. 20; Sp. p. 4175; Gaz. vol. 175; p. 718.
Gorrell, Hiram V. and J. B., Kendallville, Ind. Heat-radiator. No. 1,039,927; Oct. 1; Gaz. vol. 183; p. 85.
Gorrell, John B. (See Gorrell, Hiram V. and J. B.)
Gorst, William, Wayne, Nebr. Storm-sash-holding device. No. 1,031,178; July 2; Gaz. vol. 180; p. 117.
Gorsuch, George J., Rochester, N. Y., assignor to United Shoe Machinery Company, Paterson, N. J. Vamp-pulling apparatus. No. 1,030,579; June 25; Sp. p. 5598; Gaz. vol. 179; p. 972.
Gorsuch, Howard F., Sunbury, Ohio. Railway-tie. No. 1,015,172; Jan. 16; Sp. p. 4590; Gaz. vol. 174; p. 774.
Gorsuch, John T., Baltimore, Md. Concrete scow. No. 1,018,488; Feb. 27; Sp. p. 5003; Gaz. vol. 175; p. 880.
Gortner, Henry D., Colorado Springs, Colo. Electrical pendant switch. No. 1,029,750; June 18; Sp. p. 3655; Gaz. vol. 179; p. 644.
Gorton, George, Racine, Wis. Rotary metal-cutting-off device. No. 1,028,710; June 4; Sp. p. 1377; Gaz. vol 179; p. 214.
Gorton, George, Racine, Wis. Rotary metal-cutting-off device. No. 1,033,003; July 16; Gaz. vol. 180; p. 823.
Gorton, George, Racine, Wis. Metal-cutting-off device. No. 1,043,093; Nov. 5; Gaz. vol. 184; p. 15.
Gorton, George, Racine, Wis. Cutting-off saw and the like. No. 1,047,205; Dec. 17; Gaz. vol. 185; p. 557.
Gorton, George, and C. R. Carpenter, Racine, Wis.; said Carpenter assignor to said Gorton. Metal-cutting-off device, &c. No. 1,028,846; June 4; Sp. p. 1670; Gaz. vol. 179; p. 261.
Gorton, George, and C. R. Carpenter, Racine, Wis.; said Carpenter assignor to said Gorton. Metal-cutting-off device and the like. (Reissue.) No. 13,458; Aug. 20; Gaz. vol. 181; p. 795.

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Gosch, Otto F. C. (See Stoltze, Oskar, assignor.)
Gose, Robert G., Upton, Wyo. Draft-equalizer. No. 1,030,078; June 18; Sp. p. 4386; Gaz. vol. 179; p. 756.
Gosett, Allen D., Burleson, Tex. Wheelwright-machine. No. 1,017,534; Feb. 13; Sp. p. 2873; Gaz. vol. 175; p. 484.
Gosliner, Elkan, San Francisco, Cal. Evaporating-cooler. No. 1,044,376; Nov. 12; Gaz. vol. 184; p. 495.
Gosling, John W. (See Woodfield, Morris, and Gosling.)
Goss-Acrey Calculator Company. (See Goss, George W., assignor.)
Goss, Charles E. (See Goss, George W. and C. E.)
Goss, Fredrick H., Coraopolis, Pa. Telephone-receiver holder. No. 1,032,360; July 9; Gaz. vol. 180; p. 563.
Goss, George W., Orla, Tex., assignor to Goss-Acrey Calculator Company, St. Louis, Mo. Tax-calculating device. No. 1,024,071; Apr. 23; Sp. p. 4927; Gaz. vol. 177; p. 873.
Goss, George W., assignor to Goss-Acrey Calculator Company, St. Louis, Mo. Calculating-machine. No. 1,024,072; Apr. 23; Sp. p. 4929; Gaz. vol. 177; p. 873.
Goss, George W., assignor to Goss-Acrey Calculator Company, St. Louis, Mo. Calculating-machine. No. 1,038,350; Sept. 10; Gaz. vol. 182; p. 426.
Goss, George W. and C. E., Baltimore, Ohio. Gate-latch. No. 1,023,308; Apr. 16; Sp. p. 3342; Gaz. vol. 177; p. 597.
Goss, Harry B., Lewistown, Pa. Depositing device. No. 1,035,180; Aug. 13; Gaz. vol. 181; p. 291.
Goss, Harry T., Rutherford, N. J., assignor to C. F. Frothingham, New York, N. Y. Dish-washing machine. No. 1,042,784; Oct. 29; Gaz. vol. 183; p. 1184.
Goss, Harry T., Rutherford, and J. W. Bryce, Bloomfield, N. J. Time-recorder. No. 1,043,094; Nov. 5; Gaz. vol. 184; p. 16.
Goss, John H., assignor to Scovill Manufacturing Company, Waterbury, Conn. Box-cover. No. 1,043,519; Nov. 5; Gaz. vol. 184; p. 170.
Goss Printing Press Company, The. (See Cox, Paul F., assignor.)
Goss Printing Press Company, The. (See Dresser, Charles A., assignor.)
Goss Printing Press Company, The. (See Evensen, William, assignor.)
Goss Printing Press Company, The. (See Firm, Joseph L., assignor.)
Goss Printing Press Company, The. (See Goss, Samuel G., assignor.)
Goss Printing Press Company, The. (See Henzi, Albert A., assignor.)
Goss Printing Press Company, The. (See Menendez, Gabriel A., assignor.)
Goss Printing Press Company. (See Morgan, John D., assignor.)
Goss Printing Press Company, The. (See Schroeder, Hans C., assignor.)
Goss Printing Press Company. (See Seymour, Ralph C., assignor.)
Goss Printing Press Company, The. (See Walser, Joseph J., assignor.)
Goss, Samuel G., Glencoe, assignor to The Goss Printing Press Company, Chicago, Ill. Mechanism for producing a folded product. No. 1,046,064; Dec. 3; Gaz. vol. 185; p. 91.
Goss, Samuel G., Glencoe, assignor to The Goss Printing Press Company, Chicago, Ill. Mechanism for producing a folded product. No. 1,046,415; Dec. 3; Gaz. vol. 185; p. 216.
Goss, William, Chicago, Ill. Hanger-support. No. 1,021,867; Apr. 2; Sp. p. 252; Gaz. vol. 177; p. 41.
Goss, William F. M., Urbana, Ill. Engine. No. 1,015,016; Jan. 16; Sp. p. 4299; Gaz. vol. 174; p. 723.
Goss, William M., Cheyenne, Wyo. Concrete-mixer. No. 1,020,279; Mar. 12; Sp. p. 2708; Gaz. vol. 176; p. 459.
Gosselin, William L. (See Townsend and Gosselin.)
Gösser, Robert, Minden, Germany. Casting apparatus. No. 1,047,513; Dec. 17; Gaz. vol. 185; p. 667.
Gosswiller, Michael F., Troy, assignor of one-half to J. Delaney, Whitefish, Mont. Device for rebrassing freight-trains. No. 1,034,359; July 30; Gaz. vol. 180; p. 1351.
Gostick, Frederick W., Eckington, near Sheffield, England. Loose-leaf book. No. 1,048,956; Dec. 31; Gaz. vol. 185; p. 1228.
Goth, Thomas R. (See Walker, Sallie B., assignor.)
Göthberg, Nathanael, Chicago, Ill. Fly or insect trap. No. 1,043,419; Nov. 5; Gaz. vol. 184; p. 133.
Göthberg, Nathanael, assignor of one-half to E. Grill, Chicago, Ill. Means for imparting instruction. No. 1,024,195; Apr. 23; Sp. p. 5232; Gaz. vol. 177; p. 917.
Gothert, Oskar, Redfield, S. D. Venetian blind. No. 1,043,095; Nov. 5; Gaz. vol. 184; p. 16.
Gott, Arthur E., Erdington, England. Card-filing arrangement or system. No. 1,043,688; Nov. 5; Gaz. vol. 184; p. 227.
Gott, Joseph B., Chester, assignor to Sandycroft Foundry Company Limited, Sandycroft, England. Controlling device for winding machinery. No. 1,045,090; Nov. 19; Gaz. vol. 184; p. 773.
Gottlieb, Jacob, New York, N. Y. Condiment-holder. No. 1,039,729; Oct. 1; Gaz. vol. 183; p. 20.
Gottlieb, Max E. G., Heidelberg-Handschuhsheim, Germany. Apparatus for enlarging the air-passages of the nose. No. 1,043,924; Nov. 12; Gaz. vol. 184; p. 340.
Gottlieb, Rudolf, Brünn, Austria-Hungary. Stenciling device. No. 1,013,597; Jan. 2; Sp. p. 1095; Gaz. vol. 174; p. 176.
Gottlieb, William, Port Jervis, N. Y. Inhaler. No. 1,043,689; Nov. 5; Gaz. vol. 184; p. 227.
Gottschalck, Emil, assignor to Electric-Export Werke G. m. b. H., Berlin, Germany. Portable electric lamp. No. 1,022,072; Apr. 2; Sp. p. 679; Gaz. vol. 177; p. 108.
Gottschalck, Emil, assignor to Electric-Export-Werke G. m. b. H., Berlin, Germany. Portable electric lamp. No. 1,022,073; Apr. 2; Sp. p. 681; Gaz. vol. 177; p. 109.
Gottschalck, Emil, assignor to Electric Export-Werke, G. m. b. H., Berlin, Germany. Portable electric lamp. No. 1,025,394; May 7; Sp. p. 642; Gaz. vol. 178; p. 100.
Gottschalk, Anna, Berlin, Germany. Hose-supporter. No. 1,041,618; Oct. 15; Gaz. vol. 183; p. 719.
Gottschalk, Felix, New York, N. Y. Telephone-transmitter. No. 1,018,182; Feb. 20; Sp. p. 4344; Gaz. vol. 175; p. 745.
Gottschalk, Felix, New York, N. Y. Transmitter-casing. No. 1,045,967; Dec. 3; Gaz. vol. 185; p. 59.
Gottschalk, Felix, New York, N. Y. Telephone-transmitter. No. 1,045,968; Dec. 3; Gaz. vol. 185; p. 59.
Gottschalk, Felix, New York, N. Y. Telephone-transmitter. No. 1,045,969; Dec. 3; Gaz. vol. 185; p. 60.
Gottschling, Otto. (See Griessmann and Gottschling.)
Gottwald, Adolf, Chicago, Ill. Metallic rod-packing. No. 1,027,043; May 21; Sp. p. 4340; Gaz. vol. 178; p. 736.
Goudard, Maurice, and M. Mennesson, Levallois-Perret, France. Centrifugal hydraulic engine. No. 1,032,892; July 16; Gaz. vol. 180; p. 787.
Gougeon, Joseph, Baltic, Mich. Rotary engine. No. 1,025,975; May 14; Sp. p. 1928; Gaz. vol. 178; p. 332.
Gough, Evan, and E. H. Miller, St. Louis, Mo. Wire-rope machine. No. 1,024,196; Apr. 23; Sp. p. 5236; Gaz. vol. 177; p. 917.
Gough, Frank A., Brooklyn, N. Y. Dental tooth-regulating appliance. No. 1,013,993; Jan. 9; Sp. p. 2022; Gaz. vol. 174; p. 341.
Gough, Harold O., Sunnybank, Va. Arm-rest for musical instruments. No. 1,020,491; Mar. 19; Sp. p. 3136; Gaz. vol. 176; p. 565.
Goughnour, Charles L., assignor to The United Electric Company, Canton, Ohio. Suction-nozzle. No. 1,039,383; Sept. 24; Gaz. vol. 182; p. 835.
Gould, Chauncey M., Collinsville, Conn. Attachment for flying-machines. No. 1,045,696; Nov. 26; Gaz. vol. 184; p. 1015.
Gould Coupler Company. (See Jepson, John W., assignor.)
Gould Coupler Company. (See Maw, Edmund M., assignor.)
Gould Coupler Company. (See Richards, Willard F., assignor.)
Gould Coupler Company. (See Turbayne, William A., assignor.)
Gould, David, Plainville, Conn. Box. No. 1,043,690; Nov. 5; Gaz. vol. 184; p. 227.
Gould & Eberhardt. (See Eberhardt, Frederick L., assignor.)
Gould & Eberhardt. (See Eberhardt and Zimmermann, assignors.)
Gould & Eberhardt. (See Oehler, William H., assignor.)
Gould & Eberhardt. (See Zimmermann, William F., assignor.)
Gould, Everett N., Jamestown, N. Y. Metallic door. No. 1,013,934; Jan. 9; Sp. p. 1894; Gaz. vol. 174; p. 322.
Gould, Frank I., New Liskeard, Ontario, Canada. Bed-frame. No. 1,022,938; Apr. 9; Sp. p. 2550; Gaz. vol. 177; p. 432.
Gould, Joseph B., assignor to Matchless Lighter Company, Boston, Mass. Igniting device. No. 1,021,363; Mar. 26; Sp. p. 4993; Gaz. vol. 176; p. 911.
Gould Storage Battery Company. (See Turbayne, William A., assignor.)
Gould Storage Battery Company. (See Van Wagenen, Edward, assignor.)
Gould, William F., Des Moines, Iowa. Balanced valve. No. 1,014,591; Jan. 9; Sp. p. 3262; Gaz. vol. 174; p. 544.
Gould, William F., Des Moines, Iowa. Balanced valve. No. 1,014,592; Jan. 9; Sp. p. 3267; Gaz. vol. 174; p. 545.
Gouldbourn, Joseph. (See Brown and Gouldbourn.)
Gouldbourn, Joseph, Leicester, England, assignor to United Shoe Machinery Company, Paterson, N. J. Pounding-up roll. No. 1,019,890; Mar. 12; Sp. p. 1893; Gaz. vol. 176; p. 330.
Goulding, Charles, Chicago, Ill. Pill and tablet counting machine. No. 1,042,785; Oct. 29; Gaz. vol. 183; p. 1184.
Goulds Manufacturing Company, The. (See Smith, Sidney S., assignor.)
Goulet, Jules, Brussels, Belgium. Hydrocarbon miner's lamp. No. 1,013,765; Jan. 2; Sp. p. 1491; Gaz. vol. 174; p. 236.

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Governale, Antoni. (See Wolf and Governale.)
Gow, Alexander M., Duluth, Minn., assignor of one-half to J. H. Wynne, New York, N. Y. Liquid-measuring apparatus. No. 1,035,342; Aug. 13; Gaz. vol. 181; p. 348.
Gowan, Nassau W., St. Catharines, Ontario, assignor of three-fifths to J. Battle, Thorold, Canada. Device or appliance for the protection of canal-lock gates. No. 1,030,580; June 25; Sp. p. 5602; Gaz. vol. 179; p. 973.
Gowder, Arthur, Riverside, Cal. Smoke-purifier and dust-collector. No. 1,024,326; Apr. 23; Sp. p. 5485; Gaz. vol. 177; p. 962.
Gowdy, Harold K., Pittsburgh, Pa. Boiler feed-water regulator. No. 1,037,240; Sept. 3; Gaz. vol. 182; p. 21.
Goyette, Frederick W., San Francisco, Cal. Airship. No. 1,042,338; Oct. 22; Gaz. vol. 183; p. 1000.
Grab, Frederick, New York, N. Y. Envelop. No. 1,019,783; Mar. 12; Sp. p. 1680; Gaz. vol. 176; p. 293.
Grab, Victor M. (See Schultz, Richard A., assignor.)
Grab, Victor M., Chicago, Ill. Device for cleaning shoes. No. 1,028,208; June 4; Sp. p. 339; Gaz. vol. 179; p. 46.
Grab, Victor M., Chicago, Ill. Lamp. No. 1,047,514; Dec. 17; Gaz. vol. 185; p. 668.
Grabau, Hans E. (See Morgan and Grabau.)
Grabe, Georg, Nikolassee, near Berlin, assignor to Siemens & Halske A. G., Berlin, Germany. Apparatus for metering conversations in automatic telephone-exchanges. No. 1,020,976; Mar. 26; Sp. p. 4197; Gaz. vol. 176; p. 780.
Graber, Julius, New York, N. Y. Transfer mechanism for calculating-machines. No. 1,023,839; Apr. 23; Sp. p. 4422; Gaz. vol. 177; p. 794.
Graber, Julius, New York, N. Y. Transfer mechanism for calculating-machines. No. 1,023,840; Apr. 23; Sp. p. 4423; Gaz. vol. 177; p. 794.
Graber, Julius, New York, N. Y. Key mechanism for calculating-machines. No. 1,023,841; Apr. 23; Sp. p. 4425; Gaz. vol. 177; p. 795.
Grabler, Peter, Cleveland, Ohio. Plunger and cylinder packing. No. 1,016,561; Feb. 6; Sp. p. 771; Gaz. vol. 175; p. 113.
Grabler, Peter, Cleveland, Ohio. Handle for receptacles. No. 1,038,116; Sept. 10; Gaz. vol. 182; p. 347.
Grabowsky, Max H., Detroit, Mich. Transmission mechanism for automobiles. No. 1,017,407; Feb. 13; Sp. p. 2602; Gaz. vol. 175; p. 441.
Grabs, Virgil T., King, N. C. Well-fixture. No. 1,035,783; Aug. 13; Gaz. vol. 181; p. 497.
Grace, Charles J. (See Salamon and Grace.)
Grace, Henry S., San Francisco, Cal. Vehicle-wheel. No. 1,042,214; Oct. 22; Gaz. vol. 183; p. 959.
Grace, Sergius P., Pittsburgh, Pa. Telephone-receiver. No. 1,035,577; Aug. 13; Gaz. vol. 181; p. 429.
Grace, Sergius P., Pittsburgh, Pa., assignor to Western Electric Company, Chicago, Ill. Cable-terminal structure. No. 1,045,697; Nov. 26; Gaz. vol. 184; p. 1016.
Gracey, Charles B., Coraopolis, Pa. Coupling. No. 1,013,598; Jan. 2; Sp. p. 1097; Gaz. vol. 174; p. 177.
Gracey, James G., and E. E. Squier, St. Louis, Mo., assignors to Ed. E. Squier Company, East Alton, Ill. Smoke-consuming furnace. No. 1,049,079; Dec. 31; Gaz. vol. 185; p. 1271.
Graddick, Fletcher C., Albemarle, N. C. Roving-clamp. No. 1,023,638; Apr. 16; Sp. p. 4002; Gaz. vol. 177; p. 703.
Gradenwitz, Hermann, W. Vollbrecht, and H. Levzow, assignors to Elektromotoren-Werke Hermann Gradenwitz, Berlin, Germany. System for controlling electric motors and the like from a distance. No. 1,039,272; Sept. 24; Gaz. vol. 182; p. 796.
Gradick, Wiley, Sr., assignor of one-half to Woldert Grocery Co., Tyler, Tex. Grain-door. No. 1,045,278; Nov. 26; Gaz. vol. 184; p. 867.
Gradick, Wiley, Sr., assignor of one-half to Woldert Grocery Co., Tyler, Tex. Car-door mechanism. No. 1,045,279; Nov. 26; Gaz. vol. 184; p. 867.
Grady, Bart E., Philadelphia, Pa. Refrigerator. No. 1,026,799; May 21; Sp. p. 3764; Gaz. vol. 178; p. 651.
Grady, Frank C., Indianapolis, Ind. Meter connection-box. No. 1,024,931; Apr. 30; Sp. p. 6868; Gaz. vol. 177; p. 1207.
Grady, John E., Cleveland, Ohio. Pile-puller. No. 1,043,223; Nov. 5; Gaz. vol. 184; p. 64.
Grady, William R., assignor to Scanlan Morris Co., Madison, Wis. Surgeon's operating-table. No. 1,018,757; Feb. 27; Sp. p. 5623; Gaz. vol. 175; p. 972.
Graetz, Max, Berlin, Germany. Inverted incandescent gas-lamp. No. 1,030,079; June 18; Sp. p. 4387; Gaz. vol. 179; p. 756.
Graetz, Max, Berlin, Germany. Outside lamp for inverted incandescent gas-light. No. 1,030,080; June 18; Sp. p. 4391; Gaz. vol. 179; p. 757.
Graetz, Max, Berlin, Germany. Regulating-nozzle for incandescent gas-lamps. No. 1,039,520; Sept. 24; Gaz. vol. 182; p. 883.
Graetz, William, Sumner, Minn., assignor of one-third to H. Miller, Beaver Dam, Wis., and one-third to F. L. Hodgson, Stewartville, Minn. Manure-loader. No. 1,017,094; Feb. 13; Sp. p. 1939; Gaz. vol. 175; p. 333.
Graf, Conrad. (See Graf, George, assignor.)
Graf, Fritz, Pankow, Germany, assignor to General Electric Company. Combined switch and branch plug. No. 1,019,455; Mar. 5; Sp. p. 1034; Gaz. vol. 176; p. 152.
Graf, George, assignor to C. Graf, Chicago, Ill. Package-inserting machine. No. 1,045,391; Nov. 26; Gaz. vol. 184; p. 905.
Graf, Heinrich, Bielefeld, Germany. Changeable-pin disk for mechanical music-boxes. No. 1,027,245; May 21; Sp. p. 4780; Gaz. vol. 178; p. 805.
Graf, Hugo. (See Berneck, Moest, and Graf.)
Graf, Julius J., Ludlow, Ky. Steam-condenser. No. 1,018,489; Feb. 27; Sp. p. 5006; Gaz. vol. 175; p. 880.
Graf, Ludwig, Munich, Germany. Soup-flavoring. No. 1,032,201; July 9; Gaz. vol. 180; p. 508.
Graf, Maurice, Llanerch, Pa. Mosquito-trap. No. 1,044,642; Nov. 19; Gaz. vol. 184; p. 617.
Gräf, Maximilian, and O. Peschel, Tezel, near Berlin, Germany. Case-hardening metals and alloys. No. 1,017,748; Feb. 20; Sp. p. 3311; Gaz. vol. 175; p. 592.
Graf, Richard, New York, assignor of two-thirds to W. E. Savage, one-ninth to A. Mackay, one-ninth to R. G. Mackay, Brooklyn, and one-nineteenth to B. C. Wickes, Auburn, N. Y. Rotary fluid-power device. No. 1,042,215; Oct. 22; Gaz. vol. 183; p. 959.
Graff, Friedrich, Witten-on-the-Ruhr, Germany. Slicing-machine. No. 1,016,008; Jan. 30; Sp. p. 6411; Gaz. vol. 174; p. 1115.
Graff, John R., Indiana, Pa. Combined rail chair and fastener. No. 1,031,439; July 2; Gaz. vol. 180; p. 206.
Graff, Rudolph, assignor to First Hungarian Inventors Company, Martins Ferry, Ohio. Ice-creeper. No. 1,044,776; Nov. 19; Gaz. vol. 184; p. 666.
Grafflin, Martha A., and R. J. Gregg, Los Angeles, Cal. Syringe. No. 1,046,584; Dec. 10; Gaz. vol. 185; p. 313.
Gräflich Schaffgotsch'sche Werke, G. m. b. H. (See Stasch, Valentin, assignor.)
Graft, John R., Cedar Rapids, Iowa. Silo. No. 1,021,718; Mar. 26; Sp. p. 5733; Gaz. vol. 176; p. 1030.
Grafton, Thomas E. (See Carter, Shackleton, and Grafton.)
Grah, Robert H., Chester, Ill., assignor to Funsten Bros. & Company, St. Louis, Mo. Animal-trap. No. 1,034,360; July 30; Gaz. vol. 180; p. 1351.
Graham, Albert C., Oilfields, Cal. Offset-shoe and cast-iron offset-shoe guide. No. 1,019,712; Mar. 5; Sp. p. 1526; Gaz. vol. 176; p. 237.
Graham, Albert C., Oilfields, Cal. Swivel for hoisting machinery. No. 1,048,475; Dec. 24; Gaz. vol. 185; p. 1024.
Graham, Andrew W., assignor of twenty-four and three-fourths one-hundredths to R. G. Landon and twenty-four and three-fourths one-hundredths to J. C. McCrea, Bradford, Pa. Spark-arrester. No. 1,037,898; Sept. 10; Gaz. vol. 182; p. 275.
Graham, Cargill, Kansas City, Kans. Washing-machine. No. 1,041,067; Oct. 15; Gaz. vol. 183; p. 537.
Graham, Charles E., Boston, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Buffing device. No. 1,048,957; Dec. 31; Gaz. vol. 185; p. 1228.
Graham, Charles W., Rome, assignor, by mesne assignments, to American Can Company, New York, N. Y. Notching mechanism for can-body blanks. No. 1,020,550; Mar. 19; Sp. p. 3271; Gaz. vol. 176; p. 585.
Graham, David P., Detroit, assignor of one-half to L. C. Hayden, Tecumseh, Mich. Lock for motor-vehicles. No. 1,014,145; Jan. 9; Sp. p. 2347; Gaz. vol. 174; p. 392.
Graham, David T., assignor to Columbia Novelty Mfg. Co., St. Louis, Mo. Belt-hook. No. 1,031,179; July 2; Gaz. vol. 180; p. 118.
Graham, Edward, Lebanon, Tenn., assignor to Gulf Red Cedar Company, Richmond, Va. Wood-sawing machine. No. 1,030,885; July 2; Gaz. vol. 180; p. 12.
Graham, Edward A., Brockley, England. Telephonic apparatus. No. 1,020,898; Mar. 19; Sp. p. 4020; Gaz. vol. 176; p. 701.
Graham, Edward A., Brockley, London, England. Telephonic apparatus. No. 1,047,788; Dec. 17; Gaz. vol. 185; p. 764.
Graham, Edward M., assignor to Vaughan & Bushnell Manufacturing Company, Chicago, Ill. Jaws for chucks. No. 1,017,408; Feb. 13; Sp. p. 2604; Gaz. vol. 175; p. 441.
Graham, Elmer E., Erie, Pa. Automatic valve. No. 1,027,839; May 28; Sp. p. 6003; Gaz. vol. 178; p. 1042.
Graham, Emery E., Denver, Colo. Surveying instrument. No. 1,023,373; Apr. 16; Sp. p. 3458; Gaz. vol. 177; p. 617.
Graham, Frederick C., New York, N. Y. Electric annunciator and signaling system. No. 1,038,117; Sept. 10; Gaz. vol. 182; p. 347.
Graham, George E., assignor to W. J. Payne, Candor, N. Y. Combination of reflecting means for enabling one to see the back of the head or neck. No. 1,024,506; Apr. 30; Sp. p. 5927; Gaz. vol. 177; p. 1057.
Graham, George H., Jersey City, N. J., assignor to Universal Stamping Machine Company, New York, N. Y. Mail-marking machine. No. 1,022,191; Apr. 2; Sp. p. 928; Gaz. vol. 177; p. 148.

Alphabetical list of patentees—Continued.

Graham, George L., Florence, S. C. Mail-crane. No. 1,023,202; Apr. 16; Sp. p. 3134; Gaz. vol. 177; p. 561.
Graham, James, East Ham, London, England. Machine for making paper and like bags. No. 1,032,366; July 9; Gaz. vol. 180; p. 566.
Graham, James S., assignor of one-half to O. F. H. Redemann, Magdalena, N. Mex. Hose-clamp. No. 1,023,639; Apr. 16; Sp. p. 4006; Gaz. vol. 177; p. 703.
Graham, John. (See Auld and Graham.)
Graham, John, Glasgow, Scotland. Boat's davit and the raising and lowering gear therefor. No. 1,024.507; Apr. 30; Sp. p. 5929; Gaz. vol. 177; p. 1058.
Graham, Katharine, Baltimore, Md. Device for milk-bottles. No. 1,042,909; Oct. 29; Gaz. vol. 183; p. 1227.
Graham, Luther J., assignor of one-half to A. Hill, Richmond, Cal. Automobile-wheel. No. 1,035,181; Aug. 13; Gaz. vol. 181; p. 291.
Graham, Moses, Philadelphia, Pa. Milk-bottle lock. No. 1,042,550; Oct. 29; Gaz. vol. 183; p. 1101.
Graham, Prentiss R., Petaluma, Cal. Farm-gate. No. 1,015,676; Jan. 23; Sp. p. 5697; Gaz. vol. 174; p. 974.
Graham, Robert W., York, Pa. Convertible waistband. No. 1,017,535; Feb. 13; Sp. p. 2874; Gaz. vol. 175; p. 485.
Graham, Sam T., Bradford, Pa. Nail. No. 1,033,241; July 23; Gaz. vol. 180; p. 945.
Graham, Stanley W., Hemet, Cal. Universal joint. No. 1,037,614; Sept. 3; Gaz. vol. 182; p. 146.
Graham, Thomas, Baltimore, Md., assignor to American Can Company, New York, N. Y. Friction-top can. No. 1,022,074; Apr. 2; Sp. p. 683; Gaz. vol. 177; p. 109.
Graham, Walter. (See Deimling, John P., assignor.)
Graham, Walter E., Philadelphia, Pa. Lawn-mower. No. 1,036,608; Aug. 27; Gaz. vol. 181; p. 854.
Graham, William, Cookshire, Quebec, Canada. Device to prevent dogs from worrying sheep. No. 1,046,177; Dec. 3; Gaz. vol. 185; p. 129.
Graham, William H., Pittsburgh, Pa. Elevator safety device. No. 1,027,840; May 28; Sp. p. 6005; Gaz. vol. 178; p. 1042.
Graham, William J., Brooklyn, N. Y. Waterproof bag. No. 1,038,351; Sept. 10; Gaz. vol. 182; p. 426.
Graham, William S., assignor to Parlin & Orendorff Company, Canton, Ill. Cotton-seed-dropping mechanism. No. 1,017,664; Feb. 20; Sp. p. 3122; Gaz. vol. 175; p. 564.
Graham, William S., assignor to Parlin and Orendorff Company, Canton, Ill. Reversible plow. No. 1,018,821; Feb. 27; Sp. p. 5763; Gaz. vol. 175; p. 995.
Graham, William S., assignor to The Warner Brothers Company, Bridgeport, Conn. Buckle. No. 1,040,187; Oct. 1; Gaz. vol. 183; p. 172.
Graham, William S., assignor to Federal-Huber Company, Chicago, Ill. Waste-operating mechanism for basins and the like. No. 1,048,823; Dec. 31; Gaz. vol. 185; p. 1184.
Graham, Willie, New Orleans, La. Conveyer. No. 1,039,730; Oct. 1; Gaz. vol. 183; p. 20.
Grahl, Gustav de, Zehlendorf, near Berlin, Germany. Apparatus for controlling the admission of steam to the auxiliary blast of boiler-furnaces. No. 1,039,273; Sept. 24; Gaz. vol. 182; p. 797.
Grame, Robert D., Richmond, Va. Tobacco-pipe. No. 1,039,049; Sept. 17; Gaz. vol. 182; p. 700.
Gramm, Benjamin A., Bowling Green, Ohio. End mounting for vehicle-springs. No. 1,013,547; Jan. 2; Sp. p. 996; Gaz. vol. 174; p. 160.
Gramophone & Typewriter Ltd., The. (See Vogt, Clarence, assignor.)
Grampp, William F., and W. D. Carson, St. Louis, Mo.; said Carson assignor to said Grampp. Envelop. No. 1,047,515; Dec. 17; Gaz. vol. 185; p. 668.
Gran, Albert, and J. H. Karlson, Chicago, Ill., assignors to Designers Rule Co. Ellipsograph. No. 1,017,287; Feb. 13; Sp. p. 2346; Gaz. vol. 175; p. 399.
Gran, Olaus J., Callahan, Cal. Driving-gear for motor-vehicles. No. 1,030,081; June 18; Sp. p. 4393; Gaz. vol. 179; p. 758.
Grand Rapids Brush Company. (See Page, David P., assignor.)
Grand Rapids Refrigerator Co. (See Whittier, Walter H., assignor.)
Grand Rapids Refrigerator Company. (See Leonard, Harry C., assignor.)
Grand Rapids Show Case Company. (See Vanderveld, Anthony, assignor.)
Grand Rapids Tool & Stamping Company *et al.* (See Vorce, Albert F., assignor.)
Grandjean, Arthur, San Diego, Cal. Gas-burner. No. 1,019,318; Mar. 5; Sp. p. 705; Gaz. vol. 176; p. 110.
Grandjean, Arthur, San Diego, Cal. Carbureter. No. 1,043,691; Nov. 5; Gaz. vol. 184; p. 227.
Granger, Amédée, New Orleans, La. X-ray finder. No. 1,026,158; May 14; Sp. p. 2355; Gaz. vol. 178; p. 398.
Granger, Edward V. (See Taft, Hiram E., assignor.)
Granger, Frank E., Aberdeen, S. D. Telephone-selecting device. No. 1,017,967; Feb. 20; Sp. p. 3862; Gaz. vol. 175; p. 669.
Granger, Heman H., assignor to The Granger Under-Current Water Motor Company, Davenport, Wash. Undercurrent water-motor. No. 1,017,409; Feb. 13; Sp. p. 2605; Gaz. vol. 175; p. 442.
Granger, James C., Cottonwood, Ala. Wrench. No. 1,015,883; Jan. 30; Sp. p. 6149; Gaz. vol. 174; p. 1071.
Granger Under-Current Water Motor Company, The. (See Granger, Heman H., assignor.)
Grannis, William P., Kendallville, Ind. Fence-anchor. No. 1,027,123; May 21; Sp. p. 4545; Gaz. vol. 178; p. 764.
Grant, Albert E. (See Worthington, Edwin H., assignor.)
Grant, Alexander, New York, N. Y. Vertical hot-water heater. No. 1,046,178; Dec. 3; Gaz. vol. 185; p. 130.
Grant, Anna C. (See Grant, Jacob W., assignor.)
Grant, Annie S., West St. John, New Brunswick, Canada. Ventilating glass pane with fly-escapes. No. 1,014,701; Jan. 16; Sp. p. 3587; Gaz. vol. 174; p. 614.
Grant, Daniel, San Jacinto, Cal. Beeswax-cleaner. No. 1,023,640; Apr. 16; Sp. p. 4007; Gaz. vol. 177; p. 703.
Grant, Edgar L. (See Saunders, Rupprecht, and Grant.)
Grant, George W., Bucyrus, Ohio. Dental-chair arm. No. 1,014,702; Jan. 16; Sp. p. 3588; Gaz. vol. 174; p. 614.
Grant, Glenn D., Salt Lake City, Utah. Stove attachment. No. 1,044,643; Nov. 19; Gaz. vol. 184; p. 617.
Grant, Harriott, Syracuse, N. Y., assignor to The De Long Hook & Eye Company, Philadelphia, Pa. Garment-hook. No. 1,029,989; June 18; Sp. p. 4185; Gaz. vol. 179; p. 726.
Grant, Henry P. (See Scott and Grant.)
Grant, Horace E., Pittsburgh, Pa. Liquid-storage system. No. 1,042,106; Oct. 22; Gaz. vol. 183; p. 924.
Grant, Horace E., Pittsburgh, Pa. Liquid-storage system. No. 1,042,107; Oct. 22; Gaz. vol. 183; p. 924.
Grant, Horace E., Pittsburgh, Pa. Liquid-supply system. No. 1,042,216; Oct. 22; Gaz. vol. 183; p. 960.
Grant, Jacob W., assignor of one-half to A. C. Grant, Hanlin Station, Pa. Rail-joint. No. 1,015,677; Jan. 23; Sp. p. 5700; Gaz. vol. 174; p. 974.
Grant, John C., Kensington, London, England. Matrices for type casting and composing machines. No. 1,035,343; Aug. 13; Gaz. vol. 181; p. 349.
Grant, John C., Kensington, and L. A. Legros, Watford, England. Machine for cutting punches and like master metal surfaces. No. 1,030,399; June 25; Sp. p. 5100; Gaz. vol. 179; p. 909.
Grant, John W. (See Weil, William A., assignor.)
Grant, Joseph and Joseph, Jr., Los Angeles, Cal. Apparatus for raising sunken vessels. No. 1,041,995; Oct. 22; Gaz. vol. 183; p. 887.
Grant, Lee E., administrator. (See Barrett, Darius N.)
Grant, Lewis C. (See Grant, Sidney A. and L. C.)
Grant, Richard F. (See Hanna, Wetherbee, and Grant.)
Grant, Sidney A., Thompsonville, Conn. Egg-beater. No. 1,034,908; Aug. 6; Gaz. vol. 181; p. 169.
Grant, Sidney A. and L. C., Thompsonville, Conn. Traction-machine. No. 1,034,907; Aug. 6; Gaz. vol. 181; p. 168.
Grant, William G., Maywood, Ill., assignor to E. H. Fallows, New York, N. Y. Reinforcing wire back for brake-shoes. No. 1,033,242; July 23; Gaz. vol. 180; p. 945.
Grant, William H., Honey Creek, Wis. Safety device for elevators. No. 1,028,454; June 4; Sp. p. 864; Gaz. vol. 179; p. 129.
Grant, William L., Norfolk, Nebr. Clamping-jack. No. 1,032,893; July 16; Gaz. vol. 180; p. 788.
Grant, Willis W. (See Olson and Grant.)
Granulator Soap Company. (See Dilg and Fowler, assignors.)
Granulator Soap Company. (See Evans, Henry R., assignor.)
Granulator Soap Company. (See Shaver, George F., assignor.)
Granville, Bernard, New York, N. Y., assignor to National Fibre Products Company. Implement for obtaining samples from peat-bogs and other purposes. No. 1,027,246; May 21; Sp. p. 4782; Gaz. vol. 178; p. 805.
Granville, Bernard, New York, N. Y., assignor to National Fibre Products Company. Apparatus for screening or washing fibrous material and the like. No. 1,029,990; June 18; Sp. p. 4187; Gaz. vol. 179; p. 726.
Granville, Bernard, New York, N. Y., assignor to National Fibre Products Company. Manufacture of paper from peat. No. 1,038,565; Sept. 17; Gaz. vol. 182; p. 536.
Granville, Bernard, New York, N. Y., assignor to National Fibre Products Company. Disintegrator. No. 1,046,290; Dec. 3; Gaz. vol. 185; p. 171.
Granz, Joseph, assignor to The Nagel-Chase Manufacturing Company, Chicago, Ill. Lamp. No. 1,030,082; June 18; Sp. p. 4395; Gaz. vol. 179; p. 758.
Gras, Joseph, New York, N. Y. Table. No. 1,024,724; Apr. 30; Sp. p. 6433; Gaz. vol. 177; p. 1135.
Grasser, Firm of Louis. (See Simon, Edmund, assignor.)
Grate, Bundy M., Dayton, Ohio. Car-coupling. No. 1,032,751; July 16; Gaz. vol. 180; p. 741.
Grath, Walter P., St. Louis, Mo. Brick-kiln. No. 1,034,105; July 30; Gaz. vol. 180; p. 1263.
Grath, Walter P., St. Louis, Mo. Carbureter. No. 1,043,692; Nov. 5; Gaz. vol. 184; p. 228.

Alphabetical list of patentees—Continued.

Gratreau, Georges, assignor to Société du Tissage Velox, Paris, France. Multiple loom. No. 1,042,339; Oct. 22; Gaz. vol. 183; p. 1000.
Gratz, Norman, Boise, Idaho. Cushion-tired wheel. No. 1,036,829; Aug. 27; Gaz. vol. 181; p. 927.
Graul, Albert F., Newark, N. J. Hat-pin fastener. No. 1,042,108; Oct. 22; Gaz. vol. 183; p. 925.
Graul, Otto, assignor to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Making chlorinated hydrocarbons. No. 1,045,139; Nov. 26; Gaz. vol. 184; p. 818.
Graul, Otto, and G. Hanschke, assignors to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Producing halogenated paraffin hydrocarbons. No. 1,032,822; July 16; Gaz. vol. 180; p. 765.
Gravell, James H. (See Budd and Gravell.)
Gravell, James H., assignor to Hale and Kilburn Company, Philadelphia, Pa. Welding apparatus. No. 1,041,778; Oct. 22; Gaz. vol. 183; p. 812.
Gravelle, John B., Asbury Park, N. J. Street-cleaner. No. 1,045,392; Nov. 26; Gaz. vol. 184; p. 905.
Graves, Charles L., Milford, assignor to The Automatic Welding Machine Company, Bridgeport, Conn. Machine for automatically manufacturing welded wire chains, rings, &c. No. 1,029,865; June 18; Sp. p. 3926; Gaz. vol. 179; p. 683.
Graves, Charles W., Logansport, Ind. Piano-shield. No. 1,017,288; Feb. 13; Sp. p. 2348; Gaz. vol. 175; p. 400.
Graves, Edwin R., St. Louis, Mo. Surveying instrument. No. 1,036,096; Aug. 20; Gaz. vol. 181; p. 642.
Graves, Eugene A., Rutland, Vt., assignor of forty-five one-hundredths to F. W. Savage, Granville, N. Y., and ten one-hundredths to S. Geno, Rutland, Vt. Propelling mechanism for vessels. No. 1,023,515; Apr. 16; Sp. p. 3752; Gaz. vol. 177; p. 663.
Graves, Fred B., *et al.* (See Kay, Samuel P., assignor.)
Graves, James R., Amesbury, Mass. Seat. No. 1,023,423; Apr. 16; Sp. p. 3562; Gaz. vol. 177; p. 634.
Graves, John, and C. C. Reed, Arkansas City, Kans. Topping-machine. No. 1,015,951; Jan. 30; Sp. p. 6286; Gaz. vol. 174; p. 1094.
Graves, Richmond L. (See Selden and Graves.)
Gravity Coal Bin Company. (See Snead, John M., assignor.)
Gravity Coal Bin Company. (See Snead and Brady, assignors.)
Gravity Conveyor Company. (See Schwab, Martin C., assignor.)
Graw, Heinrich, Charlottenburg, Germany. Horseshoe. No. 1,038,118; Sept. 10; Gaz. vol. 182; p. 347.
Gray, Alexander M., Milwaukee, Wis., assignor to Allis-Chalmers Company. Motor-control system. No. 1,027,415; May 28; Sp. p. 5136; Gaz. vol. 178; p. 901.
Gray, Alexander M., Milwaukee, Wis., assignor to Allis-Chalmers Company. Dynamo-electric machine. No. 1,030,581; June 25; Sp. p. 5603; Gaz. vol. 179; p. 973.
Gray, Alexander T. (See Junggren and Gray.)
Gray, Alfred, New York, N. Y. Sign. No. 1,040,932; Oct. 8; Gaz. vol. 183; p. 457.
Gray, Arthur F. (See Vose, Ambrose S., assignor.)
Gray, Charles F., Sierra Madre, Cal., assignor to The Singer Manufacturing Company. Feeding mechanism for sewing-machines. No. 1,014,298; Jan. 9; Sp. p. 2679; Gaz. vol. 174; p. 447.
Gray, Charles F., Sierra Madre, Cal., assignor to The Singer Manufacturing Company. Feeding mechanism for sewing-machines. No. 1,017,145; Feb. 13; Sp. p. 2037; Gaz. vol. 175; p. 350.
Gray, Charles F., Sierra Madre, Cal., assignor to The Singer Manufacturing Company. Thread-controlling mechanism for sewing-machines. No. 1,020,090; Mar. 12; Sp. p. 2305; Gaz. vol. 176; p. 395.
Gray, Charles F., Sierra Madre, Cal., assignor to The Singer Manufacturing Company. Stay-guide for sewing-machines. No. 1,025,463; May 7; Sp. p. 796; Gaz. vol. 178; p. 124.
Gray, Charles F., Bridgeport, Conn., assignor, by mesne assignments, to The Singer Manufacturing Company. Zigzag-stitch-sewing machine. No. 1,020,089; Mar. 12; Sp. p. 2303; Gaz. vol. 176; p. 395.
Gray, Christopher C. and M., Anderson, Ind. Hardy attachment for anvils. No. 1,028,016; May 28; Sp. p. 6414; Gaz. vol. 178; p. 1100.
Gray, Cora E., Battle Creek, Mich. Flour-sifter. No. 1,018,822; Feb. 27; Sp. p. 5766; Gaz. vol. 175; p. 995.
Gray, David E., Hinsdale, assignor to Brown & Williams, Chicago, Ill. Automatic winding-machine. No. 1,040,188; Oct. 1; Gaz. vol. 183; p. 173.
Gray, Edward, assignor to Riverside Engine Company, Oil City, Pa. Motor-cooling system. No. 1,024,474; Apr. 23; Sp. p. 5817; Gaz. vol. 177; p. 1011.
Gray, Edward A., assignor of one-fourth to J. Sabin, one-fourth to E. Terry, and one-fourth to T. R. Martin, Ithaca, N. Y. Fan. No. 1,044,377; Nov. 12; Gaz. vol. 184; p. 495.
Gray, Emmet P., Detroit, Mich. Whistle. No. 1,024,683; Apr. 30; Sp. p. 6356; Gaz. vol. 177; p. 1119.
Gray, Emmet P., Detroit, Mich. Locking and releasing device. No. 1,035,182; Aug. 13; Gaz. vol. 181; p. 292.
Gray, Ernest, Ogden, Utah. Recoil mechanism. No. 1,042,551; Oct. 29; Gaz. vol. 183; p. 1102.
Gray, Francis W. (See White and Gray.)
Gray, George, Sisseton, S. D. Tire. No. 1,027,247; May 21; Sp. p. 4784; Gaz. vol. 178; p. 805.
Gray, James A., San Francisco, Cal. Can-head-lining machine. No. 1,043,005; Oct. 29; Gaz. vol. 183; p. 1260.
Gray, James D., Blairsville, Pa. Curtain-fixture. No. 1,030,997; July 2; Gaz. vol. 180; p. 52.
Gray, James H. (See Walker and Gray.)
Gray, James W., Tacoma, Wash. Matcher-head. No. 1,029,185; June 11; Sp. p. 2417; Gaz. vol. 179; p. 411.
Gray, John G. (See Bettis, William I., assignor.)
Gray, John G. (See Shinn, Albert J., assignor.)
Gray, John L. (See Patten, Gray, and Bue.)
Gray, John W., Wooldridge, Mo. Track-liner. No. 1,018,183; Feb. 20; Sp. p. 4348; Gaz. vol. 175; p. 746.
Gray, Mike. (See Gray, Christopher C. and M.)
Gray, Neil, assignor of one-third to A. Kasmirsky, Dayton, Ohio. Valve-gear for steam-engines. No. 1,046,772; Dec. 10; Gaz. vol. 185; p. 381.
Gray, Niel, Jr. (See Wadhams, Darius T., assignor.)
Gray, Rubin S., and M. F. Wright, Rara Avis, Miss. Rail-joint. No. 1,036,219; Aug. 20; Gaz. vol. 181; p. 688.
Gray, Sylvester B., Chickasha, Okla. Climbing device for roof-workers. No. 1,039,928; Oct. 1; Gaz. vol. 183; p. 86.
Gray Telephone Pay Station Company, The. (See Long, George A., assignor.)
Gray, Thomas C., Crawford, Miss. Wrench. No. 1,048,067; Dec. 24; Gaz. vol. 185; p. 885.
Gray, William. (See Taylor, Edward E., assignor.)
Gray, William. (See Taylor and Elkins, assignors.)
Gray, William D., Milwaukee, Wis. Gyratory bolting-machine. No. 1,014,388; Jan. 9; Sp. p. 2898; Gaz. vol. 174; p. 480.
Gray, William D., Milwaukee, Wis. Tubular structure. No. 1,015,312; Jan. 23; Sp. p. 4903; Gaz. vol. 174; p. 849.
Gray, William D., Milwaukee, Wis. Gyratory machine. No. 1,015,434; Jan. 23; Sp. p. 5182; Gaz. vol. 174; p. 890.
Gray, William E. (See Turquand and Gray.)
Gray, William T., and E. S. Haskin, Vienna, Mo.; said Haskin assignor to said Gray. Sawdust-conveyer for circular saws. No. 1,014,872; Jan. 16; Sp. p. 3984; Gaz. vol. 174; p. 674.
Graybill, Bird M., Chicago, Ill. Electric-conduit fitting. No. 1,034,909; Aug. 6; Gaz. vol. 181; p. 169.
Graybill, George, York, Pa. Spring attachment for vehicles. No. 1,041,460; Oct. 15; Gaz. vol. 183; p. 669.
Graybill, John E., York, Pa., assignor to General Electric Company. Automatic stem-making machine. No. 1,019,457; Mar. 5; Sp. p. 1038; Gaz. vol. 176; p. 153.
Graybill, John E., and P. McJunkin, York, Pa., assignors to General Electric Company. Electric meter. No. 1,019,456; Mar. 5; Sp. p. 1035; Gaz. vol. 176; p. 153.
Graydon, Mark F., Trenton, Ontario, Canada. Silencer for internal-combustion engines. No. 1,017,536; Feb. 13; Sp. p. 2876; Gaz. vol. 175; p. 485.
Grayson, William, Jr., St. Louis, Mo. Car-seal. No. 1,038,744; Sept. 17; Gaz. vol. 182; p. 599.
Grean, Alexandre M., New York, N. Y. Bust and shoulder form. No. 1,041,461; Oct. 15; Gaz. vol. 183; p. 670.
Grean, Alexandre M., New York, N. Y. Garment. No. 1,041,462; Oct. 15; Gaz. vol. 183; p. 670.
Grearson, Frederick A., assignor of one-third to W. A. Lane, Barre, Vt. Stone-cutting lathe. No. 1,042,217; Oct. 22; Gaz. vol. 183; p. 960.
Great Lakes Engineering Works. (See Mattsson, Alfred G., assignor.)
Greatorex, William H., Camberwell, assignor to Wallach Brothers Limited, London, England. Cock. No. 1,021,518; Mar. 26; Sp. p. 5371; Gaz. vol. 176; p. 966.
Greaves, Alfred J., Richmond, England. Receptacle for mustard and other condiments. No. 1,024,988; Apr. 30; Sp. p. 6976; Gaz. vol. 177; p. 1226.
Greaves, John H. (See Parsons, Greaves, and Hemsted.)
Greaves, John S., Negley, Ohio. Non-refillable bottle. No. 1,038,566; Sept. 17; Gaz. vol. 182; p. 536.
Greaves, Wallace M., Manchester, assignor to Cosmo Contracting Syndicate Limited, London, England. Boiler-insert. No. 1,037,241; Sept. 3; Gaz. vol. 182; p. 22.
Greeley, Guy H., *et al.* (See Greeley, James T., assignor.)
Greeley, James T., Nashua, N. H., assignor of one-fourth to L. L. Goold, Pittsburgh, Pa. Hypodermic syringe. No. 1,015,952; Jan. 30; Sp. p. 6289; Gaz. vol. 174; p. 1094.
Greeley, James T., Nashua, N. H., assignor of one-fourth to L. L. Goold, Pittsburgh, Pa., and one-fourth to G. H. Greeley, Merrimac, N. H. Hypodermic syringe. No. 1,021,146; Mar. 26; Sp. p. 4534; Gaz. vol. 176; p. 836.
Greeley, Mallie J., Thunder, Idaho. Chain-coupling device. No. 1,042,667; Oct. 29; Gaz. vol. 183; p. 1144.
Greeley, Melvin S., Des Moines, Iowa. Grain-door. No. 1,013,766; Jan. 2; Sp. p. 1495; Gaz. vol. 174; p. 237.
Green, Arthur A., Schenectady, N. Y. Automatic fishing-pole. No. 1,021,147; Mar. 26; Sp. p. 4537; Gaz. vol. 176; p. 836.
Green, Augustus M., Hamilton, Ill. Tripping attachment for vehicles. No. 1,013,035; Jan. 9; Sp. p. 1895; Gaz. vol. 174; p. 323.

Alphabetical list of patentees—Continued.

Green, Byron E., Ilion, N. Y. Blackboard-marker. No. 1,023,561; Apr. 16; Sp. p. 3843; Gaz. vol. 177; p. 677.
Green, Charles M., Garden City, Kans. Harness attachment. No. 1,028,711; June 4; Sp. p. 1382; Gaz. vol. 179; p. 214.
Green, Collins D., Roaring Spring, Pa. Railway-tie. No. 1,016,141; Jan. 30; Sp. p. 6687; Gaz. vol. 174; p. 1162.
Green, Elisha T., Thatcher, Ariz. Head-gate. No. 1,031.544; July 2; Gaz. vol. 180; p. 241.
Green, Era M., San Diego, Cal. Resilient vehicle-tire. No. 1,030,809; June 25; Sp. p. 6255; Gaz. vol. 179; p. 1056.
Green, Frank. (See Scott, Joseph J., assignor.)
Green, Frank P. (See Mannheimer and Green.)
Green, Fred W., *et al.* (See Thomas, John W., assignor.)
Green, George A., *et al.* (See Elkin, Warren, assignor.)
Green, George E. (See Horvath and Green.)
Green, Harry B., Woodbury, N. J. Sheet separating, registering, and feeding apparatus. No. 1,039,521; Sept. 24; Gaz. vol. 182; p. 884.
Green, Henry, Hartford, Conn. X-ray tube. No. 1,042,109; Oct. 22; Gaz. vol. 183; p. 925.
Green, John H., Springfield, Ill. Vacuum-cleaner. No. 1,016,263; Feb. 6; Sp. p. 40; Gaz. vol. 175; p. 9.
Green, John H., Bladen, Ohio. Gate. No. 1,016,824; Feb. 6; Sp. p. 1311; Gaz. vol. 175; p. 202.
Green, John R., Kansas City, Mo. Hydrocarbon-burner. No. 1,021,186; Mar. 26; Sp. p. 4630; Gaz. vol. 176; p. 849.
Green, Jonathan S., assignor, by mesne assignments, to The Colonial Trust Company, trustee, Pittsburgh, Pa. Turbine-blading. No. 1,015,313; Jan. 23; Sp. p. 4905; Gaz. vol. 174; p. 849.
Green, Joshua, London, England. Gramophone, phonograph, and like horn. No. 1,047,789; Dec. 17; Gaz. vol. 185; p. 764.
Green, Joshua J., Shreveport, La. Mixing-machine. No. 1,019,039; Mar. 5; Sp. p. 60; Gaz. vol. 176; p. 12.
Green, Joshua J., Shreveport, La. Feeding-machine. No. 1,019,040; Mar. 5; Sp. p. 62; Gaz. vol. 176; p. 13.
Green, Joshua J., Shreveport, La. Screening or separating machine. No. 1,019,041; Mar. 5; Sp. p. 64; Gaz. vol. 176; p. 13.
Green, Lyman D., assignor to The Davis Sewing Machine Company, Dayton, Ohio. Adjustable presser-foot for sewing-machines. No. 1,042,429; Oct. 29; Gaz. vol. 183; p. 1059.
Green, Martin A., Philadelphia, Pa. Steam-engine. No. 1,045,698; Nov. 26; Gaz. vol. 184; p. 1016.
Green, Samuel E. (See Thomas, William R., assignor.)
Green, Thomas W., Philadelphia, Pa. Divided impeller for blowers. No. 1,030,083; June 18; Sp. p. 4397; Gaz. vol. 179; p. 759.
Green, Thomas W., Philadelphia, Pa. Casing for impellers of rotary blowers. No. 1,046,773; Dec. 10; Gaz. vol. 185; p. 381.
Green, Walter H., Chicago, Ill., assignor to Northern Water Softener Company, Madison, Wis. Water-treating apparatus. No. 1,019,784; Mar. 12; Sp. p. 1681; Gaz. vol. 176; p. 293.
Green, Walter R., Chicago, Ill. Protective casing for pneumatic tires. No. 1,048,958; Dec. 31; Gaz. vol. 185; p. 1229.
Green, Warren L., New York, N. Y. Printing-machine. No. 1,027,384; May 21; Sp. p. 5061; Gaz. vol. 178; p. 852.
Green, William. (See Cruser and Green.)
Green, William. (See Fairburn, Cruser, and Green.)
Green, William F., Modesto, Cal. Gas-separator. No. 1,025,696; May 7; Sp. p. 1303; Gaz. vol. 178; p. 203.
Green, William L., Monroe City, assignor of one-half to G. F. Jasper, Hannibal, Mo. Aerodrome. No. 1,039.384; Sept. 24; Gaz. vol. 182; p. 835.
Green, William W., Niles, Mich., assignor to Garden City Fan Company, Chicago, Ill. Positive blower. No. 1,029,186; June 11; Sp. p. 2419; Gaz. vol. 179; p. 412.
Green, William W., Niles, Mich., assignor to Garden City Fan Company, Chicago, Ill. Apparatus for collecting dust and other fine particles. No. 1,035,822; Aug. 13; Gaz. vol. 181; p. 510.
Greenawalt, William E., Denver, Colo. Electrolytic apparatus. No. 1,043,096; Nov. 5; Gaz. vol. 184; p. 17.
Greenbaum, Jules, Berlin, Germany, assignor to Raleigh & Robert, Paris, France. Film and method of synchronizing the operation of kinematographs and talking-machines. No. 1,027,248; May 21; Sp. p. 4785; Gaz. vol. 178; p. 806.
Greenbaum, Leo, New York, N. Y. Denture. No. 1,028,017; May 28; Sp. p. 6415; Gaz. vol. 178; p. 1101.
Greenbaum, Morris S., Chicago, Ill. Manufacture of nutritive material for both animal and vegetable life. No. 1,020,091; Mar. 12; Sp. p. 2307; Gaz. vol. 176; p. 396.
Greenberg, David H., *et al.* (See Robinson, Louis, assignor.)
Greenberg, Samuel, assignor to Knickerbocker Leather & Novelty Company, New York, N. Y. Purse. No. 1,033,578; July 23; Gaz. vol. 180; p. 1056.
Greenberger, Albert, *et al.* (See Walint, Markus, assignor.)
Greenbrier, Harry W. (See Cress, Novitsky, and Greenbrier.)
Greene, Albert E., Chicago, Ill. Melting scrap metal. No. 1,018,418; Feb. 27; Sp. p. 4841; Gaz. vol. 175; p. 857.
Greene, Albert E., Pueblo, Colo. Electric furnace. No. 1,021,187; Mar. 26; Sp. p. 4632; Gaz. vol. 176; p. 849.
Greene, Albert E., Chicago, Ill. Process and apparatus for extracting and refining metals and alloys. No. 1,031,257; July 2; Gaz. vol. 180; p. 145.
Greene, Albert E., Chicago, Ill., assignor to American Electric Smelting and Engineering Company, St. Louis, Mo. Producing refined metals and alloys. No. 1,034,785; Aug. 6; Gaz. vol. 181; p. 129.
Greene, Albert E., Chicago, Ill., assignor to American Electric Smelting and Engineering Company, St. Louis, Mo. Producing alloy steel. No. 1,034,786; Aug. 6; Gaz. vol. 181; p. 129.
Greene, Albert E., Chicago, Ill., assignor to American Electric Smelting and Engineering Company, St. Louis, Mo. Refining metals and alloys. No. 1,034,787; Aug. 6; Gaz. vol. 181; p. 130.
Greene, Albert E., Chicago, Ill., assignor to American Electric Smelting and Engineering Company, St. Louis, Mo. Extracting and refining metals and ores. No. 1,034,788; Aug. 6; Gaz. vol. 181; p. 130.
Greene, Albert E., Chicago, Ill., assignor to American Electric Smelting and Engineering Company, St. Louis, Mo. Electric induction-furnace. No. 1,036,996; Aug. 27; Gaz. vol. 181; p. 982.
Greene, Albert E., Pueblo, Colo., assignor to American Electric Smelting and Engineering Company, St. Louis, Mo. Producing refined metals and alloys. No. 1,034,784; Aug. 6; Gaz. vol. 181; p. 128.
Greene, Augustine E., Hartford, Conn. Work-holder. No. 1,024,256; Apr. 23; Sp. p. 5365; Gaz. vol. 177; p. 940.
Greene, Augustine E., Hartford, Conn. Machine for grinding balls. No. 1,026,350; May 14; Sp. p. 2782; Gaz. vol. 178; p. 464.
Greene, Augustine E., Hartford, Conn. Grinding balls. No. 1,026,351; May 14; Sp. p. 2792; Gaz. vol. 178; p. 464.
Greene, Charles S., and L. W. Norton, New York, N. Y. Hen's nest. No. 1,037,756; Sept. 3; Gaz. vol. 182; p. 193.
Greene, Edwin, Roswell, N. Mex. Reserve supply-tank. No. 1,038,119; Sept. 10; Gaz. vol. 182; p. 347.
Greene, Frank, Alva, Okla. Child's portable high chair. No. 1,049,080; Dec. 31; Gaz. vol. 185; p. 1271.
Greene, Frank C. (See Greene, Oscar V., assignor.)
Greene, Frank C., Cleveland, and C. G. Palmer, East Cleveland, Ohio; said Palmer assignor to said Greene. Mechanism for handling cars. No. 1,017,868; Feb. 20; Sp. p. 3621; Gaz. vol. 175; p. 634.
Greene, Glenn G., Warren, Pa. Coupling member for hame-fastenings. No. 1,045,699; Nov. 26; Gaz. vol. 184; p. 1017.
Greene, Harry S. (See Praray and Greene.)
Greene, Harry S., Woonsocket, R. I. Planetary-napping-machine drum. No. 1,020,280; Mar. 12; Sp. p. 2709; Gaz. vol. 176; p. 459.
Greene, Harry S., Woonsocket, R. I. Planetary-napping-machine drum. No. 1,030,657; June 25; Sp. p. 5858; Gaz. vol. 179; p. 1002.
Greene, James G., and L. F. A. Büchner, Elizabeth, N. J., assignors to The Singer Manufacturing Company. Buttonhole-sewing machine. No. 1,030,998; July 2; Gaz. vol. 180; p. 52.
Greene, James G., and L. F. A. Büchner, Elizabeth, N. J., assignors to The Singer Manufacturing Company. Buttonhole-cutting mechanism. No. 1,035,344; Aug. 13; Gaz. vol. 181; p. 349.
Greene, John T. (See Chapman and Greene.)
Greene, Louis E., Cleghorn, Iowa. Rake. No. 1,020,387; Mar. 12; Sp. p. 2910; Gaz. vol. 176; p. 493.
Greene, Oscar V., assignor to F. C. Greene, Cleveland, Ohio. Retarding device. No. 1,026,626; May 14; Sp. p. 3364; Gaz. vol. 178; p. 554.
Greene, Russell D., Nichols, Fla. Drier. No. 1,039,385; Sept. 24; Gaz. vol. 182; p. 835.
Greenebaum, Abraham H., assignor to Alma Manufacturing Company of Baltimore City, Baltimore, Md. Snap-fastener socket and top. No. 1,041,619; Oct. 15; Gaz. vol. 183; p. 719.
Greenebaum, Albert, Philadelphia, Pa. Shirt-waist. No. 1,044,881; Nov. 19; Gaz. vol. 184; p. 701.
Greenert, John A., assignor to B. L. Cornelius, Hutchinson, Kans. Combination oil and gas burner. No. 1,038,120; Sept. 10; Gaz. vol. 182; p. 348.
Greenfield Automatic Fastener Company. (See Greenfield, Edwin T., assignor.)
Greenfield, Edwin T., Kiamesha, assignor to Greenfield Paper Bottle Company, New York, N. Y. Manufacturing paper bottles or containing vessels. No. 1,016,327; Feb. 6; Sp. p. 207; Gaz. vol. 175; p. 32.
Greenfield, Edwin T., Kiamesha, assignor to Greenfield Automatic Fastener Company, New York, N. Y. Stapling-machine. No. 1,024,889; Apr. 30; Sp. p. 6772; Gaz. vol. 177; p. 1191.
Greenfield, George H., Moravia, N. Y. Silo. No. 1,033,167; July 23; Gaz. vol. 180; p. 918.
Greenfield Paper Bottle Company. (See Greenfield, Edwin T., assignor.)

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Greenfield Tap & Die Corporation. (See Wells, Frank O., assignor.)
Greengard, Morris D., New York, N. Y. Electrical switch. No. 1,033,796; July 30; Gaz. vol. 180; p. 1152.
Greengard, Morris D., New York, N. Y. Electrical switch. No. 1,038,567; Sept. 17; Gaz. vol. 182; p. 536.
Greenhalgh, Charles W., Lowell, Wash. Grapple. No. 1,041,068; Oct. 15; Gaz. vol. 183; p. 538.
Greenig, Louis W., and J. O. Fowler, Salt Lake City, Utah. Adjustable skee. No. 1,013,154; Jan. 2; Sp. p. 131; Gaz. vol. 174; p. 23.
Greening, Nathaniel, Warrington, England. Wire fabric. No. 1,036,997; Aug. 27; Gaz. vol. 181; p. 982.
Greenlaw, Arthur L., Malden, assignor to The Greenlaw Manufacturing Co., Boston, Mass. System of train-pipe connections. No. 1,044,644; Nov. 19; Gaz. vol. 184; p. 617.
Greenlaw Manufacturing Co., The. (See Greenlaw, Arthur L., assignor.)
Greenlaw Manufacturing Company, The. (See Greenlaw, Warren A., assignor.)
Greenlaw Manufacturing Co., The. (See Greenlaw and Jewett, assignors.)
Greenlaw, Warren A., Melrose Highlands, assignor to The Greenlaw Manufacturing Company, Boston, Mass. Coupling for train-pipes. No. 1,039,731; Oct. 1; Gaz. vol. 183; p. 21.
Greenlaw, Warren A., Melrose, and R. A. Jewett, assignors to The Greenlaw Manufacturing Co., Boston, Mass. Train-pipe connection. No. 1,015,435; Jan. 23; Sp. p. 5183; Gaz. vol. 174; p. 890.
Greenleaf, George E., Plainfield, assignor to Niles-Bement-Pond Company, Jersey City, N. J. Former for lathes. No. 1,018,184; Feb. 20; Sp. p. 4349; Gaz. vol. 175; p. 746.
Greenleaf, George E., Plainfield, assignor to Niles-Bement-Pond Company, Jersey City, N. J. Lathe appliance. No. 1,021,771; Apr. 2; Sp. p. 32; Gaz. vol. 177; p. 8.
Greenleaf, George E., Plainfield, assignor to Niles Bement Pond Company, Jersey City, N. J. Clamp for machine-tools. No. 1,035,784; Aug. 13; Gaz. vol. 181; p. 497.
Greenleaf, George E., Plainfield, N. J., and D. H. Teas, New Haven, Conn., assignors to Niles-Bement-Pond Company, Jersey City, N. J. Centering-chuck. No. 1,017,968; Feb. 20; Sp. p. 3869; Gaz. vol. 175; p. 669.
Greenleaf, Louis A., Dorchester, Mass. Speedometer. (Reissue.) No. 13,370; Feb. 20; Sp. p. 4791; Gaz. vol. 175; p. 820.
Greenleaf, William, Bay City, Mich. Vehicle-chock. No. 1,019,785; Mar. 12; Sp. p. 1685; Gaz. vol. 176; p. 293.
Greenley, Elliott E., Independence, Iowa. Pipe-grabber. No. 1,036,220; Aug. 20; Gaz. vol. 181; p. 688.
Greenlund, Arthur H., assignor to Jamestown Lounge Company, Jamestown, N. Y. Chair-frame. No. 1,040,933; Oct. 8; Gaz. vol. 183; p. 457.
Greenough, Charles E. (See Tufts, Edward R., assignor.)
Greenough, John W. (See Dunham and Greenough.)
Greenpoint Metallic Bed Company. (See Holden, George, assignor.)
Greenstreet, Jason H., Indianapolis, Ind. Box-blank. No. 1,032,539; July 16; Gaz. vol. 180; p. 667.
Greenwald, Isadore, assignor of one-half to Landau Brothers, Pittsburgh, Pa. Clock. No. 1,036,485; Aug. 20; Gaz. vol. 181; p. 778.
Greenwald, Isidore, J. Blaustein, Pittsburgh, M. Z. Weiss, and M. Selkovits, McKeesport, Pa. Lamp-extinguisher. No. 1,044,167; Nov. 12; Gaz. vol. 184; p. 423.
Greenway, Thomas J., Armadale, near Melbourne, assignor to Potter's Sulphide Ore Treatment Limited, Melbourne, Victoria, Australia. Separation of metallic sulfids from sulfid ores. No. 1,045,970; Dec. 3; Gaz. vol. 185; p. 60.
Greenway, William R., Brooklyn, assignor of one-half to H. A. Currie, New York, N. Y. Plug-connector. No. 1,034,910; Aug. 6; Gaz. vol. 181; p. 170.
Greenwood, Cyrus S., Detroit, Mich. Cap. No. 1,017,049; Feb. 13; Sp. p. 1820; Gaz. vol. 175; p. 316.
Greenwood, John J., Phoebus, Va. Attachment for cornets and the like. No. 1,045,700; Nov. 26; Gaz. vol. 184; p. 1017.
Greer, George T., Roanoke, Va. Tooth-brush holder. No. 1,023,641; Apr. 16; Sp. p. 4008; Gaz. vol. 177; p. 704.
Greer, Howard, Jr., Evanston, assignor to C. H. Fitz-Hugh and F. P. Luther, Chicago, Ill. Dumping-car. No. 1,035,578; Aug. 13; Gaz. vol. 181; p. 429.
Greer, Howard, Jr., Evanston, assignor to C. H. Fitz-Hugh and F. P. Luther, Chicago, Ill., Dumping-car. No. 1,035,579; Aug. 13; Gaz. vol. 181; p. 429.
Greer, Joseph F., Palo Alto, and J. S. Witherell, Stanford University, Cal. Hay-rake. No. 1,031,998; July 9; Gaz. vol. 180; p. 436.
Greer, Thomas D., Norton, Kans. Stabilizator. No. 1,041,620; Oct. 15; Gaz. vol. 183; p. 719.
Greer, William H. C., Sherman, Tex. Suspension-bridge. No. 1,019,458; Mar. 5; Sp. p. 1048; Gaz. vol. 176; p. 153.
Grefenstette, John J., Pittsburgh, Pa. Vehicle-tire. No. 1,046,774; Dec. 10; Gaz. vol. 185; p. 381.
Gregg Company, The. (See Gregg, Louis D., assignor.)
Gregg, Harry B. (See Donahue, Anderson, and Gregg.)
Gregg, Louis D., Newburgh, N. Y., assignor to The Gregg Company, Ltd. Stake-pocket. No. 1,036,221; Aug. 20; Gaz. vol. 181; p. 689.
Gregg, Luther L., Jr., Lonejack, Mo. Vehicle-wheel. No. 1,020,977; Mar. 26; Sp. p. 4203; Gaz. vol. 176; p. 781.
Gregg, Luther L., Jr., Lonejack, Mo. Tire-securing mechanism. No. 1,029,604; June 18; Sp. p. 3328; Gaz. vol. 179; p. 592.
Gregg, Norris B., St. Louis, Mo. Painting. No. 1,017,410; Feb. 13; Sp. p. 2607; Gaz. vol. 175; p. 442.
Gregg, Norris B., St. Louis, Mo. Device for preparing surfaces to be painted. No. 1,026,436; May 14; Sp. p. 2971; Gaz. vol. 178; p. 492.
Gregg, Robert E., assignor to General Specialty Company, Indianapolis, Ind. Parallel-jaw pliers. No. 1,038,745; Sept. 17; Gaz. vol. 182; p. 599.
Gregg, Robert E., assignor to General Specialty Company, Indianapolis, Ind. Tire-patch. No. 1,047,790; Dec. 17; Gaz. vol. 185; p. 765.
Gregg, Robert J. (See Grafflin and Gregg.)
Gregg, Roscoe C. (See Gregg, William L. and R. C.)
Gregg, Walter S., Kansas City, Mo. Pump. No. 1,038,568; Sept. 17; Gaz. vol. 182; p. 536.
Gregg, William L. and R. C., Fredericktown, Ohio. Spraying device. No. 1,047,791; Dec. 17; Gaz. vol. 185; p. 765.
Grégoire, Félix, St. Jean Baptiste, Manitoba, Canada. Combination autoboat and aeroplane. No. 1,041,779; Oct. 22; Gaz. vol. 183; p. 812.
Gregory, Arthur, Durango, Mexico. Lid for cooking utensils. No. 1,028,712; June 4; Sp. p. 1383; Gaz. vol. 179; p. 215.
Gregory, Arthur, Wytheville, Va. Casing for electric fans. No. 1,040,934; Oct. 8; Gaz. vol. 183; p. 457.
Gregory, Eugene, Michigan City, Ind., assignor to National Fresh Air Furniture Company, Reno, Nev. Couch-hammock. No. 1,032,540; July 16; Gaz. vol. 180; p. 668.
Gregory, Eugene, Michigan City, Ind., assignor to National Fresh Air Furniture Company, Reno, Nev. Folding bed or couch. No. 1,032,541; July 16; Gaz. vol. 180; p. 668.
Gregory, Frank H. (See Gross, Elmer S., assignor.)
Gregory, James A., Woodville, N. C. Connecting device between a draft and a drag member. No. 1,029,439; June 11; Sp. p. 2987; Gaz. vol. 179; p. 500.
Gregory, James T., Washington, D. C. Extensible table-leg. No. 1,030,658; June 25; Sp. p. 5861; Gaz. vol. 179; p. 1002.
Gregory, John E., Springdale, Ark. Protective self-feeder. No. 1,048,151; Dec. 24; Gaz. vol. 185; p. 915.
Gregory, Marshal J., assignor of one-half to J. W. Turnbow, Sour Lake, Tex. Fire and burglar alarm. No. 1,017,095; Feb. 13; Sp. p. 1941; Gaz. vol. 175; p. 333.
Gregory, Thomas F., Henning, Tenn. Whiffletree. No. 1,020,196; Mar. 12; Sp. p. 2543; Gaz. vol. 176; p. 432.
Gregson, Thomas E., Atlantic City, N. J. Amusement apparatus. No. 1,048,152; Dec. 24; Gaz. vol. 185; p. 915.
Greig, Walter, Niagara Falls, N. Y., assignor to American Sales Book Company, Limited, Toronto, Canada. Manifolding sales-book. No. 1,043,588; Nov. 5; Gaz. vol. 184; p. 194.
Greig, Walter, Niagara Falls, N. Y., assignor to American Sales Book Company, Limited, Toronto, Canada. Manifolding sales-book. No. 1,047,933; Dec. 24; Gaz. vol. 185; p. 842.
Greilick, Clarence L., assignor to Traverse City Chair Company, Traverse City, Mich. Automatic chair-fixture. No. 1,032,202; July 9; Gaz. vol. 180; p. 508.
Greilick, Clarence L., assignor to Traverse City Chair Company, Traverse City, Mich. Morris chair. No. 1,048,306; Dec. 24; Gaz. vol. 185; p. 965.
Greiner, A. J. (See Buttman, Alonzo C., assignor.)
Greiner, Charles, assignor to The Hemming Brothers Company, New Haven, Conn. Wire-straightener. No. 1,032,823; July 16; Gaz. vol. 180; p. 765.
Greiner, Emil. (See McManaman and Greiner.)
Greiner, Ernst W., Williamsburg, Pa. Nut-lock. No. 1,039,274; Sept. 24; Gaz. vol. 182; p. 797.
Greist, Hubert M. (See Boyler and Greist.)
Greist, Hubert M., assignor to The Greist Manufacturing Company, New Haven, Conn. Sewing-machine ruffler. No. 1,043,097; Nov. 5; Gaz. vol. 184; p. 17.
Greist, Hubert M., and E. J. Boyler, New Haven, Conn., assignors to The Greist Manufacturing Company. Sewing-machine ruffler. No. 1,044,645; Nov. 19; Gaz. vol. 184; p. 618.
Greist Manufacturing Company, The. (See Beckert, Frederick W., assignor.)
Greist Manufacturing Company, The. (See Boyler, Emanuel J., assignor.)
Greist Manufacturing Company, The. (See Boyler and Greist, assignors.)
Greist Manufacturing Company, The. (See Ford, Louis M., assignor.)
Greist Manufacturing Company, The. (See Greist, Hubert M., assignor.)
Greist Manufacturing Company, The. (See Greist and Boyler, assignors.)
Greist, Percy R. (See Boyler and Greist.)

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Gremel, Frank J., Detroit, Mich. Explosive-engine. No. 1,022,476; Apr. 9; Sp. p. 1526; Gaz. vol. 177; p. 274.
Grenier, Cyprien, Coaticook, Quebec, Canada. Stretching implement. No. 1,037,615; Sept. 3; Gaz. vol. 182; p. 146.
Grenville, Walter W., Thorold, Ontario, Canada. Press for forming pulp articles. No. 1,019,786; Mar. 12; Sp. p. 1686; Gaz. vol. 176; p. 294.
Gresko, Joe, Benwood, W. Va. Electric rat-trap. No. 1,033,579; July 23; Gaz. vol. 180; p. 1056.
Gress, Theodore, and B. Moline, Council Bluffs, Iowa. Bracket for window-shades. No. 1,034,228; July 30; Gaz. vol. 180; p. 1305.
Gresser, Robert E., Paris, France. Loose-leaf binder. No. 1,047,792; Dec. 17; Gaz. vol. 185; p. 765.
Gressett, Lawrence F., Ballinger, Tex. Insulator and support. No. 1,027,601; May 28; Sp. p. 5506; Gaz. vol. 178; p. 963.
Grether, Ernst. (See Preiswerk and Grether.)
Grether, Gustav, Koblenz, Germany. Parasiticide for plants. No. 1,021,095; Mar. 26; Sp. p. 4431; Gaz. vol. 176; p. 820.
Greubel, Michael J., West Hoboken, N. J. Clothes-line hanger. No. 1,045,393; Nov. 26; Gaz. vol. 184; p. 906.
Greuter, Bruno, Kreuzlingen, Switzerland. Embroidering-machine. No. 1,039,929; Oct. 1; Gaz. vol. 183; p. 86.
Grewe, Aloysius B. (See Goldsborough and Grewe.)
Grey, Charles M., East Orange, N. J. Making castings. No. 1,013,548; Jan. 2; Sp. p. 996; Gaz. vol. 174; p. 160.
Grey, Charles M., East Orange, N. J. Mechanical movement. No. 1,022,670; Apr. 9; Sp. p. 1940; Gaz. vol. 177; p. 338.
Grey, Henry, New York, N. Y. Rolling flanged metal beams or bars. No. 1,034,361; July 30; Gaz. vol. 180; p. 1352.
Grey, Henry, assignor to American Universal Mill Company, New York, N. Y. Solid rolled metal I-beam of nine inches and under twelve inches in height. No. 1,013,649; Jan. 2; Sp. p. 1230; Gaz. vol. 174; p. 194.
Grey, Henry, assignor to American Universal Mill Company, New York, N. Y. Solid rolled metal eight-inch I-beam. No. 1,013,650; Jan. 2; Sp. p. 1233; Gaz. vol. 174; p. 194.
Grey, Henry, assignor to American Universal Mill Company, New York, N. Y. Solid rolled metal I-beam of sixteen inches and under twenty-five inches in height. No. 1,013,651; Jan. 2; Sp. p. 1236; Gaz. vol. 174; p. 194.
Grey, Henry, assignor to American Universal Mill Company, New York, N. Y. Solid rolled metal I-beam of twelve inches and under sixteen inches in height. No. 1,013,652; Jan. 2; Sp. p. 1239; Gaz. vol. 174; p. 195.
Grey, William R., Gettysburg, Wash. Mail-pouch trap. No. 1,043,315; Nov. 5; Gaz. vol. 184; p. 97.
Grey, Willis L., Stockton, Cal. Ditch-digger. No. 1,045,834; Dec. 3; Gaz. vol. 185; p. 13.
Gribben, John E., Dravosburg, Pa. Dish-washer. No. 1,034,229; July 30; Gaz. vol. 180; p. 1305.
Gribler, Arthur G. (See Gribler, Henry W. and A. G.)
Gribler, Henry W. and A. G., Van Wert, Ohio. Ditching-machine. No. 1,029,498; June 11; Sp. p. 3100; Gaz. vol. 179; p. 520.
Grice, Arthur G., Carnoustie, Scotland. Percussive tool. No. 1,015,732; Jan. 23; Sp. p. 5823; Gaz. vol. 174; p. 992.
Gridley, Benjamin, assignor to G. W. Payne Company, Pawtucket, R. I. Belt-gearing for winding-machines. No. 1,025,868; May 7; Sp. p. 1664; Gaz. vol. 178; p. 262.
Grieb, Alfred, Elizabeth, N. J., assignor to The Singer Manufacturing Company. Stitch-forming mechanism. No. 1,013,155; Jan. 2; Sp. p. 132; Gaz. vol. 174; p. 23.
Grieb, Alfred, Elizabeth, N. J., assignor to The Singer Manufacturing Company. Overseaming sewing-machine. No. 1,016,488; Feb. 6; Sp. p. 573; Gaz. vol. 175; p. 89.
Griebe, William, and D. C. Ruth, Brooklyn, N. Y. Automatic switch. No. 1,045,394; Nov. 26; Gaz. vol. 184; p. 906.
Griep, Anthony B., Aurora, Mo. Ribbon-holder. No. 1,016,489; Feb. 6; Sp. p. 576; Gaz. vol. 175; p. 89.
Grier, Thomas G., and H. M. Fisk, Chicago, Ill.; said Fisk assignor to said Grier. Spring-connector. No. 1,045,280; Nov. 26; Gaz. vol. 184; p. 868.
Griesinger, Henry N., Mount Carmel, Pa. Brake mechanism for sound-reproducing machines. No. 1,043,420; Nov. 5; Gaz. vol. 184; p. 133.
Griesser, Wilhelm, Denver, Colo. Building for cooling and storing beer. No. 1,018,703; Feb. 27; Sp. p. 5501; Gaz. vol. 175; p. 953.
Griesser, Wilhelm, Denver, Colo. Cooling and storage tanks for beer. No. 1,018,704; Feb. 27; Sp. p. 5502; Gaz. vol. 175; p. 953.
Griesser, Wilhelm, Denver, Colo. Ice-making apparatus. No. 1,018,705; Feb. 27; Sp. p. 5504; Gaz. vol. 175; p. 953.
Griessmann, Arno, and O. Gottschling, Berlin, Germany, assignors to T. P. Kingsford and V. K. Higgins, Oswego, N. Y. Automatic balancing device for rotors of pumps, turbines, blowers, and the like. No. 1,045,019; Nov. 19; Gaz. vol. 184; p. 748.
Griessmann, Franz A., Berlin, Germany, assignor to T. P. Kingsford and V. K. Higgins, Oswego, N. Y. Automatic balancing device for centrifugal pumps, turbines, and the like. No. 1,025,621; May 7; Sp. p. 1160; Gaz. vol. 178; p. 178.
Grieve, Robert. (See Tichon, Joseph E., assignor.)
Grieves, Albert, Springfield, Ohio, assignor to International Harvester Company. Corn-planter. No. 1,029,679; June 18; Sp. p. 3492; Gaz. vol. 179; p. 619.
Griffin, Albert A., Lansing, Mich. Chiropractic table. No. 1,029,751; June 18; Sp. p. 3657; Gaz. vol. 179; p. 645.
Griffin, Austin L., assignor of one-half to F. H. Emery, Scranton, Pa. Drier. No. 1,030,515; June 25; Sp. p. 5395; Gaz. vol. 179; p. 950.
Griffin, Carlos P., *et al.* (See Clark, Harry B., assignor.)
Griffin, Edwin C., deceased, Newton; L. M. Griffin, executrix, assignor to Bradley Pulverizer Company, Boston, Mass. Grinding-mill. No. 1,020,092; Mar. 12; Sp. p. 2309; Gaz. vol. 176; p. 396.
Griffin, Edwin C., deceased, Newton; L. M. Griffin, executrix, Ashmont, assignor to Bradley Pulverizer Co., Boston, Mass. Universal joint for grinding-mills. No. 1,048,307; Dec. 24; Gaz. vol. 185; p. 966.
Griffin, Edwin F., assignor to International Text Book Company, Scranton, Pa. Type-writing machine. No. 1,017,050; Feb. 13; Sp. p. 1821; Gaz. vol. 175; p. 316.
Griffin, G. Brewer. (See Cleland, Harry W., assignor.)
Griffin, George A., assignor of one-half to Henry Zimmern & Company, New York, N. Y. Device for making coil-springs. No. 1,047,934; Dec. 24; Gaz. vol. 185; p. 842.
Griffin, Gerald G., New York, N. Y. Apparatus for making confetti. No. 1,040,935; Oct. 8; Gaz. vol. 183; p. 458.
Griffin, Henry A. T., Sydney, New South Wales, assignor to J. Channon, "Pakenham" Hornsby, near Sydney, Australia. Necktie form and retainer. No. 1,047,516; Dec. 17; Gaz. vol. 185; p. 669.
Griffin, Henry W., New York, N. Y., assignor to The Union Switch and Signal Company, Swissvale, Pa. Controlling apparatus for railway switches and signals. No. 1,033,243; July 23; Gaz. vol. 180; p. 945.
Griffin, Hugh A., Rocky Mount, N. C. Combined cigarette-box and match-holder. No. 1,049,225; Dec. 31; Gaz. vol. 185; p. 1320.
Griffin, James J., and G. M. Peacock, South Yarra, Melbourne, Victoria, Australia. Machine for temporarily securing metallic container ends prior to crimping or double seaming. No. 1,047,793; Dec. 17; Gaz. vol. 185; p. 766.
Griffin, John, assignor of one-tenth to L. A. Drugmand, Tyre, and one-tenth to G. M. Weaver, Imperial, Pa. Trap. No. 1,041,463; Oct. 15; Gaz. vol. 183; p. 670.
Griffin, John A., Los Angeles, Cal. Concrete fence-post. No. 1,020,412; Mar. 19; Sp. p. 2975; Gaz. vol. 176; p. 539.
Griffin, John A., Los Angeles, Cal. Sectional reinforced-concrete pole. No. 1,033,887; July 30; Gaz. vol. 180; p. 1185.
Griffin, Joseph. (See McKeel and Griffin.)
Griffin, Joseph D. (See Barnett, Samuel, assignor.)
Griffin, Julius C. (See Carroll and Griffin.)
Griffin, Linch B., Lebanon, Tenn. Wagon-bed. No. 1,043,824; Nov. 12; Gaz. vol. 184; p. 304.
Griffin, Lovina M., executrix. (See Griffin, Edwin C.)
Griffin, Mortimer N., Rome, Ga. Box for water-meters. No. 1,042,218; Oct. 22; Gaz. vol. 183; p. 960.
Griffin Wheel Company. (See Vial, Frederick K., assignor.)
Griffinberg, John W., assignor of one-third to W. V. Madara and one-third to E. J. Kreitzburg, Philadelphia, Pa. Joint for oars or the like. No. 1,036,222; Aug. 20; Gaz. vol. 181; p. 689.
Griffith, Albert W. (See Clark, George H., assignor.)
Griffith, Asa W., Youngstown, Ohio. Hotbed. No. 1,027,124; May 21; Sp. p. 4546; Gaz. vol. 178; p. 764.
Griffith, Asa W., Youngstown, Ohio. Continuous heating-furnace. No. 1,029,605; June 18; Sp. p. 3330; Gaz. vol. 179; p. 593.
Griffith, Benjamin M., and W. T. McCullough, Pittsburgh, Pa. Churn. No. 1,040,664; Oct. 8; Gaz. vol. 183; p. 371.
Griffith, George P. (See Bell, Wilton, and Griffith.)
Griffith, Graves, San Francisco, Cal. Prismatic telescope. No. 1,016,562; Feb. 6; Sp. p. 772; Gaz. vol. 175; p. 113.
Griffith, Richard H., assignor to The Ohio Cultivator Company, Bellevue, Ohio. Planter. No. 1,032,668; July 16; Gaz. vol. 180; p. 713.
Griffith, Richard H., assignor to The Ohio Cultivator Company, Bellevue, Ohio. Planter. No. 1,039,275; Sept. 24; Gaz. vol. 182; p. 798.
Griffith, Robert W., *et al.* (See White, Frank L., assignor.)
Griffith, Russell B., Rochester, N. Y. Copy-holder. No. 1,014,646; Jan. 16; Sp. p. 3469; Gaz. vol. 174; p. 596.

Alphabetical list of patentees—Continued.

Griffith, Watkin M. (See McIntyre, John, assignor.)
Griffiths, De Nise A., Chicago, Ill. Magnetic separator. No. 1,048,824; Dec. 31; Gaz. vol. 185; p. 1184.
Griffiths, George J., Woodstock, assignor to The Oliver Typewriter Company, Chicago, Ill. Type-writing machine. No. 1,015,559; Jan. 23; Sp. p. 5447; Gaz. vol. 174; p. 932.
Griffiths, Guy D., Acme, Alberta, Canada. Grain-shocker. No. 1,046,461; Dec. 10; Gaz. vol. 185; p. 269.
Griffiths, John, Deer Park, N. Y. Well-tile-driving device. No. 1,035,183; Aug. 13; Gaz. vol. 181; p. 292.
Griffiths, Leonard L., assignor to Texas Portland Cement Company, Dallas, Tex. Oil-burner. No. 1,033,068; July 16; Gaz. vol. 180; p. 847.
Griffiths, Meshach, Dana, Cal. Hay-loader. No. 1,035,580; Aug. 13; Gaz. vol. 181; p. 430.
Griffiths, William U., Philadelphia, Pa. Means for closing valves. No. 1,048,825; Dec. 31; Gaz. vol. 185; p. 1184.
Grigg, Charles M., Joplin, Mo. Truck. No. 1,016,490; Feb. 6; Sp. p. 578; Gaz. vol. 175; p. 89.
Griggs, George F., and J. A. Henderson, assignors of one-third to D. F. Sullivan and J. F. McNamara, Fitchburg, Mass. Chuck-jaw. No. 1,020,492; Mar. 19; Sp. p. 3138; Gaz. vol. 176; p. 566.
Griggs, Horace W., Milwaukee, Wis. Machine for winding moving-picture films and other material. No. 1,042,430; Oct. 29; Gaz. vol. 183; p. 1060.
Griggs, Stephen A., trustee. (See Darby, Clifford T., assignor.)
Griggs, Theodore G., Springfield, N. J. Fan attachment for machines. No. 1,042,431; Oct. 29; Gaz. vol. 183; p. 1060.
Grignard, Albert M. E., New York, N. Y. Means for supporting cylinders. No. 1,047,206; Dec. 17; Gaz. vol. 185; p. 558.
Grigsby, Rosa W., *et al.*, heirs-at-law. (See Webb, Samuel J.)
Grigsby, William S., Denver, Colo. Engine-starter for automobiles. No. 1,033,004; July 16; Gaz. vol. 180; p. 824.
Grill, Elizabeth. (See Göthberg, Nathanael, assignor.)
Grill, William F., Detroit, Mich. Pattern-stripping machine. No. 1,024,890; Apr. 30; Sp. p. 6774; Gaz. vol. 177; p. 1192.
Grillby Metallfabrik. (See Sätterström, Algot, assignor.)
Grimes, George L., Detroit, Mich. Core-making machine. No. 1,018,823; Feb. 27; Sp. p. 5768; Gaz. vol. 175; p. 996.
Grimes, Grover, *et al.* (See Truman, James A., assignor.)
Grimes, Harry S., Portsmouth, Ohio. Cinder-guard. No. 1,024,327; Apr. 23; Sp. p. 5486; Gaz. vol. 177; p. 962.
Grimes, Josiah, Whittier, assignor of one-half to B. F. Lyttle, Los Angeles, Cal. Delivery device for sugar, &c. No. 1,017,210; Feb. 13; Sp. p. 2189; Gaz. vol. 175; p. 373.
Grimes, Lester A., New York, N. Y. Automatic sprinkler-valve. No. 1,045,701; Nov. 26; Gaz. vol. 184; p. 1017.
Grimes, Thomas J., York, Ala. Combined cultivator and fertilizer-distributer. No. 1,040,936; Oct. 8; Gaz. vol. 183; p. 458.
Grimm, Lewis, Pittsburgh, Pa. Tire-case for automobiles. No. 1,018,185; Feb. 20; Sp. p. 4350; Gaz. vol. 175; p. 746.
Grimm, Paul H., Glen Cove, N. Y., assignor to C. G. Cornell, Jr., Greenwich, Conn. Attaching a collar to the end of a pipe. No. 1,039,930; Oct. 1; Gaz. vol. 183; p. 86.
Grimsdale, William H., Twickenham, assignor to Grimsdale's Patents Limited, London, England. Piano-player and like instrument. No. 1,036,830; Aug. 27; Gaz. vol. 181; p. 927.
Grimsdale's Patents Limited. (See Grimsdale, William H., assignor.)
Grimshaw, Frank B. (See Walters, Alexander L., assignor.)
Grinden Art Metal Company. (See Frey, John E., assignor.)
Grinden Art Metal Company. (See Parish, Harold F., assignor.)
Grindle, Emanuel M., Holton, Kans. Cheek-distender. No. 1,025,265; May 7; Sp. p. 346; Gaz. vol. 178; p. 56.
Grindle, Monroe W., Santa Rosa, Cal. Mail-box alarm. No. 1,037,470; Sept. 3; Gaz. vol. 182; p. 100.
Grindle, William W. (See Sweeny and Grindle.)
Griner, Nevada A., Rolling Prairie, Wis. Sewing-clamp. No. 1,047,794; Dec. 17; Gaz. vol. 185; p. 766.
Grinewezki, Wassily, Moscow, Russia. Carbureter for internal-combustion motors. No. 1,028,713; June 4; Sp. p. 1384; Gaz. vol. 179; p. 215.
Grings, Casper H., Waterloo, Iowa. Music-holder for pianos. No. 1,020,947; Mar. 19; Sp. p. 4120; Gaz. vol. 176; p. 718.
Grinnell, Harold D., Pittsfield, Mass. Electric gas-lighter. No. 1,014,461; Jan. 9; Sp. p. 3034; Gaz. vol. 174; p. 503.
Grinnell, Harold D., Pittsfield, Mass. Electric gas-lighter. No. 1,032,203; July 9; Gaz. vol. 180; p. 509.
Grinnell, Harold D., Pittsfield, Mass. Combination gas-burner and electric gas-igniter. No. 1,040,937; Oct. 8; Gaz. vol. 183; p. 458.
Grinnell, Harold D., New York, N. Y. Electric-lighting device for motor-vehicle lamps. No. 1,047,045; Dec. 10; Gaz. vol. 185; p. 470.
Grinnell, Ira L., Detroit, Mich. Piano-player. No. 1,014,059; Jan. 9; Sp. p. 2172; Gaz. vol. 174; p. 363.
Grinnell, Ira L., Detroit, Mich. Air-motor. No. 1,019,459; Mar. 5; Sp. p. 1049; Gaz. vol. 176; p. 154.
Grinnell, Russell, Providence, R. I., assignor to General Fire Extinguisher Company, New York, N. Y. Insert-support. No. 1,037,242; Sept. 3; Gaz. vol. 182; p. 22.
Gripp, Friedrich O., Bremen, Germany. Manufacture of briquets. No. 1,016,939; Feb. 13; Sp. p. 1572; Gaz. vol. 175; p. 278.
Grischy, William B., Cincinnati, Ohio. Roofing implement. No. 1,032,669; July 16; Gaz. vol. 180; p. 713.
Griscom Spencer Company, The. (See Osborne, William S., assignor.)
Griscom-Spencer Company, The. (See Row, Reuben R., assignor.)
Grisham, Mattie, Athens, Tex. Spittoon. No. 1,041,621; Oct. 15; Gaz. vol. 183; p. 720.
Grissinger, John H., Wellington, Ohio. Oil-burner. No. 1,031,845; July 9; Gaz. vol. 180; p. 388.
Grissinger, John H., Wellington, Ohio. Gas-producer. No. 1,031,846; July 9; Gaz. vol. 180; p. 388.
Grissom, Louis W., Durham, N. C. Auger. No. 1,037,616; Sept. 3; Gaz. vol. 182; p. 147.
Grist, Thomas A., Knox, Ind. Crossing-signal. No. 1,016,919; Feb. 6; Sp. p. 1515; Gaz. vol. 175; p. 234.
Griswold, Harrison, New York, N. Y. Dasher for freezers, churns, &c. No. 1,027,416; May 28; Sp. p. 5138; Gaz. vol. 178; p. 901.
Griswold, Herbert L., *et al.* (See Bronson, Clarence P., assignor.)
Griswold, Kurtz E., *et al.* (See Bronson, Clarence P., assignor.)
Griswold, Merritt W., Highwood, N. J. Ventilating apparatus. No. 1,045,835; Dec. 3; Gaz. vol. 185; p. 14.
Griswold, William A., Sharon, Ohio. Speed and distance indicating and recording device. No. 1,043,825; Nov. 12; Gaz. vol. 184; p. 305.
Gritman, Abel D. (See Purvis and Gritman.)
Groat, John T., assignor of one-half to G. Watts, Detroit, Mich. Glass-faced brick. No. 1,018,747; Feb. 27; Sp. p. 5603; Gaz. vol. 175; p. 969.
Grob, Hugo, Zurich, Switzerland. Apparatus for producing a constant voltage with variable speed. No. 1,016,825; Feb. 6; Sp. p. 1313; Gaz. vol. 175; p. 202.
Grobl, Mathias A., Chicago, Ill. Lifter-arm. No. 1,015,017; Jan. 16; Sp. p. 4300; Gaz. vol. 174; p. 723.
Grobman, Samuel H., Newark, N. J. Pin box or case. No. 1,046,065; Dec. 3; Gaz. vol. 185; p. 91.
Grochau, Augustus E., Eau Claire, Wis. Sanitary lining for refrigerators or other receptacles. No. 1,034,441; Aug. 6; Gaz. vol. 181; p. 14.
Grochau, Augustus E., Eau Claire, Wis. Sanitary lining for refrigerators and closets. No. 1,043,048; Oct. 29; Gaz. vol. 183; p. 1275.
Groebli, Joseph A., New York, N. Y. Decorated fabric. No. 1,024,891; Apr. 30; Sp. p. 6775; Gaz. vol. 177; p. 1192.
Groebli, Joseph A., New York, N. Y. Counterbalancing mechanism for embroidering-machines. No. 1,024,892; Apr. 30; Sp. p. 6777; Gaz. vol. 177; p. 1192.
Groebli, Joseph A., New York, N. Y. Jacquard mechanism. No. 1,033,889; July 30; Gaz. vol. 180; p. 1186.
Groebli, Joseph A., New York, N. Y. Jacquard-card-punching machine. No. 1,037,472; Sept. 3; Gaz. vol. 182; p. 101.
Groebli, Joseph A., New York, N. Y. Bead-sewing machine. No. 1,041,780; Oct. 22; Gaz. vol. 183; p. 813.
Groebli, Joseph A., New York, N. Y. Jacquard. No. 1,042,668; Oct. 29; Gaz. vol. 183; p. 1144.
Groebli, Joseph A., New York, N. Y. Jacquard-card-punching machine. No. 1,044,777; Nov. 19; Gaz. vol. 184; p. 666.
Groebli, Joseph A., assignor, by mesne assignments, to A. H. Kursheedt, New York, N. Y. Jacquard mechanism. No. 1,033,888; July 30; Gaz. vol. 180; p. 1186.
Groebli, Joseph A., assignor, by mesne assignments, to A. H. Kursheedt, New York, N. Y. Jacquard mechanism. No. 1,034,106; July 30; Gaz. vol. 180; p. 1263.
Groebli, Joseph A., assignor, by mesne assignments, to A. H. Kursheedt, New York, N. Y. Safety mechanism for embroidering-machines. No. 1,037,471; Sept. 3; Gaz. vol. 182; p. 101.
Groebli, Joseph A., assignor, by mesne assignments, to A. H. Kursheedt, New York, N. Y. Protective device for embroidering-machines. No. 1,040,938; Oct. 8; Gaz. vol. 183; p. 459.
Groebli, Joseph A., assignor, by mesne assignments, to A. H. Kursheedt, New York, N. Y. Protective device for embroidering-machines. No. 1,045,971; Dec. 3; Gaz. vol. 185; p. 60.
Groene, William F. (See Le Blond and Groene.)
Groetken, Joseph J., Tulsa, Okla. Pumping apparatus. No. 1,025,056; Apr. 30; Sp. p. 7097; Gaz. vol. 177; p. 1248.
Groff, Clarence B., Camden, N. J. Ratchet-drill. No. 1,013,653; Jan. 2; Sp. p. 1242; Gaz. vol. 174; p. 195.

Alphabetical list of patentees—Continued.

Grogan, Edward W., Byers, Tex. Desk-cabinet. No. 1,045,395; Nov. 26; Gaz. vol. 184; p. 906.
Grogan, Edward W., Byers, Tex. Wire-cutter. No. 1,045,396; Nov. 26; Gaz. vol. 184; p. 907.
Grohmann, Carl L., and I. C. Koehne, assignors to The National Cash Register Company, Dayton, Ohio. Check cash-register. No. 1,014,647; Jan. 16; Sp. p. 3474; Gaz. vol. 174; p. 596.
Grohmann, Hans, assignor to Salpetersäure-Industrie-Gesellschaft, G. m. b. H., Cologne, Germany. Producing endothermic gas reactions and apparatus therefor. No. 1,035,873; Aug. 20; Gaz. vol. 181; p. 565.
Grohn, Henry P. (See Kenney and Grohn.)
Groise, Alphonse. (See Valois and Groise.)
Groise, Armand. (See Valois and Groise.)
Gronauer, G. (See Williams, Perry H., assignor.)
Gronberg, John G., Grand Rapids, Mich., and W. D. Hodson, assignors to The Caloric Company, Janesville, Wis. Electric oven. No. 1,022,545; Apr. 9; Sp. p. 1667; Gaz. vol. 177; p. 296.
Gröndal, Gustaf, Djursholm, Sweden. Reducing iron ore. No. 1,033,051; July 16; Gaz. vol. 180; p. 840.
Gronek, John, Philadelphia, Pa. Combination time and percussion fuse. No. 1,022,075; Apr. 2; Sp. p. 685; Gaz. vol. 177; p. 109.
Gronek, John, Philadelphia, Pa. Hinge. No. 1,028,874; June 11; Sp. p. 1745; Gaz. vol. 179; p. 305.
Gronke, Barney, Chicago, Ill., assignor to International Harvester Company. Corn-husking rollers. No. 1,030,467; June 25; Sp. p. 5243; Gaz. vol. 179; p. 933.
Gronkowski, Leo E., Everson, Pa. Wrench. No. 1,047,046; Dec. 10; Gaz. vol. 185; p. 470.
Grönlund, Adolph. (See Grönlund, Jonas E. and A.)
Grönlund, Jonas E., Morgan Park, and A. Grönlund, Chicago, Ill. Self-cleaning currycomb. No. 1,031,999; July 9; Gaz. vol. 180; p. 440.
Gronquist, Conrad, Bigelow, Kans. Rotary disk plow. No. 1,017,146; Feb. 13; Sp. p. 2039; Gaz. vol. 175; p. 351.
Grönwall, Eugen A. A., A. R. Lindblad, and O. Stålbane, Ludvika, Sweden. Electric furnace. No. 1,039,732; Oct. 1; Gaz. vol. 183; p. 21.
Groschen, George. (See Olsen, Einar J., assignor.)
Groschopp, Friedrich W., assignor to Kampfe Brothers, New York, N. Y. Locking device for safety-razor blades. No. 1,046,179; Dec. 3; Gaz. vol. 185; p. 130.
Grosert, Thomas, and E. Unger, New York, N. Y. Hair-steaming device. No. 1,029,361; June 11; Sp. p. 2806; Gaz. vol. 179; p. 473.
Gross, Benjamin S. and S., Birmingham, Ala. Combination-tool. No. 1,047,795; Dec. 17; Gaz. vol. 185; p. 766.
Gross, Carl. (See Gross, Louis, assignor.)
Gross, E. E. (See Holman, Reuben L., assignor.)
Gross, Elmer S., assignor of one-half to F. H. Gregory, Harrisburg, Pa. Tang-driven tool. No. 1,043,098; Nov. 5; Gaz. vol. 184; p. 17.
Gross, George M., Chicago, Ill. Ore-concentrator. No. 1,035,874; Aug. 20; Gaz. vol. 181; p. 566.
Gross, Herschel W., assignor of one-third to J. H. Ward, Chicago, Ill. Automatic bell-ringing device. No. 1,046,775; Dec. 10; Gaz. vol. 185; p. 381.
Gross, John, and L. Cohen, Denver, Colo. Apparatus for the treatment of ore. No. 1,021,248; Mar. 26; Sp. p. 4766; Gaz. vol. 176; p. 870.
Gross, Louis, Homestead, assignor to C. Gross, McKees Rocks, Pa. Composition of matter. No. 1,023,642; Apr. 16; Sp. p. 4010; Gaz. vol. 177; p. 704.
Gross, Mannin, Council Grove, Kans. Liquid-fuel burner. No. 1,019,247; Mar. 5; Sp. p. 529; Gaz. vol. 176; p. 84.
Gross, Robert, Kl. Damerau, Germany. Safety device for threshing-machines. No. 1,029,117; June 11; Sp. p. 2277; Gaz. vol. 179; p. 389.
Gross, Sidney. (See Gross, Benjamin S. and S.)
Grosscup, Lewis S., Salem, N. J. Lifting-jack. No. 1,040,939; Oct. 8; Gaz. vol. 183; p. 459.
Grossenbach, August H., Jersey City, N. J. Reversible double-design necktie. No. 1,044,168; Nov. 12; Gaz. vol. 184; p. 423.
Grosser, Michael E., Waterville, N. Y. Root-puller. No. 1,024,328; Apr. 23; Sp. p. 5487; Gaz. vol. 177; p. 962.
Grosshans, Christian C. (See Sanders, Samuel P., assignor.)
Grossmann, Jacob, Manchester, England. Treatment of sewage-sludge. No. 1,025,622; May 7; Sp. p. 1163; Gaz. vol. 178; p. 179.
Grosvenor, William M., Grantwood, N. J. Drying system. No. 1,014,462; Jan. 9; Sp. p. 3035; Gaz. vol. 174; p. 503.
Grosvenor, William M., Grantwood, N. J. Apparatus for treating fibrous materials. No. 1,019,319; Mar. 5; Sp. p. 706; Gaz. vol. 176; p. 110.
Grosvenor, William M., New York, N. Y. Conducting catalytic reactions. No. 1,036,609; Aug. 27; Gaz. vol. 181; p. 854.
Grosvenor, William M., New York, N. Y. Conducting catalytic reactions. No. 1,036,610; Aug. 27; Gaz. vol. 181; p. 855.
Grosvold, Fred E., Eau Claire, Wis. Water-gage. No. 1,016,885; Feb. 6; Sp. p. 1431; Gaz. vol. 175; p. 222.
Grotenhuis, William J., assignor to Sanitary Steel Couch Company, Chicago, Ill. Bed or couch fabric. No. 1,021,772; Apr. 2; Sp. p. 33; Gaz. vol. 177; p. 8.
Grotenhuis, William J., assignor of one-half to P. A. Salisbury, Chicago, Ill. Stamping device. No. 1,022,076; Apr. 2; Sp. p. 687; Gaz. vol. 177; p. 110.
Grotenhuis, William J., assignor to Cushion-Corner Bed Spring Co., Chicago, Ill. Bed-bottom support. No. 1,026,031; May 14; Sp. p. 2061; Gaz. vol. 178; p. 353.
Grotevant, Warren E., Douglas, Ariz. Level. No. 1,038,352; Sept. 10; Gaz. vol. 182; p. 427.
Grout, Edward A., Cambridge, Mass. Ice-creeper. No. 1,032,600; July 16; Gaz. vol. 180; p. 688.
Grout, Robert C., Denver, Colo. Fuse-changer. No. 1,023,077; Apr. 9; Sp. p. 2814; Gaz. vol. 177; p. 479.
Grove, August W., and D. F. Anderson, Chicago, Ill. Gas-cock. No. 1,039,386; Sept. 24; Gaz. vol. 182; p. 836.
Grove, E. W. (See Ranz, Jacob, assignor.)
Grove, Edwin W. (See Weakley, Raymond D., assignor.)
Grove, James H., Omaha, Nebr., assignor, by mesne assignments, to American Arch Company, New York, N. Y. Lignite-burning furnace. No. 1,033,005; July 16; Gaz. vol. 180; p. 824.
Grove, James H., Omaha, Nebr., assignor, by mesne assignments, to American Arch Company, New York, N. Y. Locomotive-boiler furnace. No. 1,033,006; July 16; Gaz. vol. 180; p. 825.
Grove, James H., Omaha, Nebr., assignor, by mesne assignments, to American Arch Company, New York, N. Y. Locomotive-boiler furnace. No. 1,033,007; July 16; Gaz. vol. 180; p. 825.
Grove, James H., Omaha, Nebr., assignor, by mesne assignments, to American Arch Company, New York, N. Y. Locomotive-boiler furnace. No. 1,033,008; July 16; Gaz. vol. 180; p. 826.
Grove Products Company, The. (See Strong, George H., assignor.)
Grover, Charles A., assignor of one-half to L. T. Price, Markleeville, Cal. Field cooking outfit. No. 1,038,121; Sept. 10; Gaz. vol. 182; p. 348.
Grover, Fred V., Park Rapids, Minn. Attachment for automobile-wheels. No. 1,038,569; Sept. 17; Gaz. vol. 182; p. 537.
Grover, Frederick, assignor to The Forgrove Machinery Company Limited, Leeds, England. Wrapping-machine No. 1,037,617; Sept. 3; Gaz. vol. 182; p. 147.
Grover, George B., Lynn, Mass. Buffing-machine. No. 1,024,628; Apr. 30; Sp. p. 6242; Gaz. vol. 177; p. 1100.
Groves, James A., Jacksonville, Ill. Score-board. No. 1,038,875; Sept. 17; Gaz. vol. 182; p. 644.
Grow, Archie L., Beaumont, Kans. Sanitary attachment for bath-tubs. No. 1,024,329; Apr. 23; Sp. p. 5488; Gaz. vol. 177; p. 962.
Grub, Albert, assignor of one-fourth to F. Grub, Chicago, Ill. Ice-motor. No. 1,016,687; Feb. 6; Sp. p. 1033; Gaz. vol. 175; p. 158.
Grub, Albert, assignor of one-fourth to F. Grub and one-fourth to B. Grub, Chicago, Ill. Leg-lifting-caster device. No. 1,021,773; Apr. 2; Sp. p. 35; Gaz. vol. 177; p. 9.
Grub, Benjamin, *et al.* (See Grub, Albert, assignor.)
Grub, Frederick, *et al.* (See Grub, Albert, assignor.)
Grubb, Albert E., and T. J. Bury, Enid, Okla. Sanitary garbage-can. No. 1,039,050; Sept. 17; Gaz. vol. 182; p. 700.
Grubb, Henry F., Lorain, Ohio. Automatic speed control for motor-vehicles. No. 1,040,189; Oct. 1; Gaz. val. 183; p. 173.
Grubbs, Lewis E., Logansport, Ind. Electric sad-iron. No. 1,039,120; Sept. 24; Gaz. vol. 182; p. 741.
Grube-Meyering Trunk Co. (See Meyering, Julius V., assignor.)
Gruber, Hermann, Leipzig-Plagwitz, assignor of one-half to Fritz Schulz jun. Aktiengesellschaft, Leipzig, Germany. Purifying clay, &c. No. 1,036,831; Aug. 27; Gaz. vol. 181; p. 927.
Grubman, Leo, assignor to F. B. Core, New York, N. Y. Photographer's developing-frame. No. 1,019,320; Mar. 5; Sp. p. 712; Gaz. vol. 176; p. 110.
Gruen, Frederick G., Cincinnati, Ohio. Stem winding and setting device for watches. No. 1,048,688; Dec. 31; Gaz. vol. 185; p. 1137.
Gruenberg, Raoul J., San Francisco, Cal. Box-handle. No. 1,027,385; May 21; Sp. p. 5072; Gaz. vol. 178; p. 853.
Gruenberger, Hermann, New York, N. Y. Toy eye-mask. No. 1,037,473; Sept. 3; Gaz. vol. 182; p. 102.
Gruendler, Gustav J., St. Louis, Mo. Ice-box. No. 1,019,631; Mar. 5; Sp. p. 1383; Gaz. vol. 176; p. 211.
Gruener, Hugo A., Pittsburgh, Pa. Feed-bag. No. 1,023,643; Apr. 16; Sp. p. 4010; Gaz. vol. 177; p. 704.
Gruenwald, Teodoro, Genoa, Italy. Fluid-jet blower. No. 1,023,078; Apr. 9; Sp. p. 2816; Gaz. vol. 177; p. 479.
Gruhl, Fred J., Milwaukee, Wis. Window. No. 1,032,752; July 16; Gaz. vol. 180; p. 742.
Grumley, Frederick C., Chicago, Ill. Fastener for vestibuled-car curtains. No. 1,049,226; Dec. 31; Gaz. vol. 185; p. 1320.
Grumman, Victor W., Zanesville, Ohio. Molding-machine. No. 1,025,136; May 7; Sp. p. 56; Gaz. vol. 178; p. 10.

Alphabetical list of patentees—Continued.

Grun, Willibald, Frankfort-on-the-Main, Germany. Turbine-blade. No. 1,027,201; May 21; Sp. p. 4695; Gaz. vol. 178; p. 789.
Grun, Willibald, Frankfort-on-the-Main, Germany. Fluid-operated regulator. No. 1,047,207; Dec. 17; Gaz. vol. 185; p. 558.
Grünbaum, Heinrich, New York, N. Y. Fire-escape. No. 1,015,173; Jan. 16; Sp. p. 4591; Gaz. vol. 174; p. 774.
Grundy, Frederick, Los Angeles, Cal. Expression-controller for musical instruments. No. 1,031,784; July 9; Gaz. vol. 180; p. 367.
Grundy, John R., assignor to Charles Bond Company, Philadelphia, Pa. Making set-screws. No. 1,042,219; Oct. 22; Gaz. vol. 183; p. 960.
Grundy, Mary J. F. (See McPherson and Grundy.)
Grune, August H. M., Pirmasens, Germany. Pneumatic boot-tree. No. 1,048,826; Dec. 31; Gaz. vol. 185; p. 1185.
Gruneisen, Albert. (See Morris, Gruneisen, and Hoppe.)
Grünenwald, August, Treuchtlingen, and V. Widder, Riedlingen, Germany. Harrow for meadows. No. 1,035,000; Aug. 6; Gaz. vol. 181; p. 200.
Grünewald, Otto, and M. Gorich, Ehrenfeld, near Cologne, Germany. Prop for mines. No. 1,021,249; Mar. 26; Sp. p. 4770; Gaz. vol. 176; p. 870.
Grunow, William, Jr., Waterbury, Conn., assignor to American Railway Signal Company. Railway signaling. No. 1,040,940; Oct. 8; Gaz. vol. 183; p. 460.
Grunow, William, Jr., Waterbury, Conn., assignor to American Railway Signal Company. Circuit-closing device or switch for use in connection with electric or other railways. No. 1,040,941; Oct. 8; Gaz. vol. 183; p. 460.
Grünstein, Nathan, assignor to Chemische Fabrik Griesheim-Elektron, Frankfort-on-the-Main, Germany. Manufacture, from acetylene, of acetaldehyde and condensation and polymerization products thereof. No. 1,044,169; Nov. 12; Gaz. vol. 184; p. 423.
Grunwald, Carl, Bredeney, Germany. Cylinder for double-acting piston-engines. No. 1,045,702; Nov. 26; Gaz. vol. 184; p. 1018.
Grush, Charles E., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. End-lasting mechanism. No. 1,032,824; July 16; Gaz. vol. 180; p. 765.
Gruss, Lucien R., Chico, Cal., assignor to The Pneumatic Cushion Company, Inc., Phoenix, Ariz. Pneumatic spring for vehicles. No. 1,013,487; Jan. 2; Sp. p. 871; Gaz. vol. 174; p. 139.
Gruss, Lucien R., assignor to Auto-Compressed-Air Wheel Company, Chico, Cal. Vehicle-wheel. No. 1,027,647; May 28; Sp. p. 5592; Gaz. vol. 178; p. 977.
Gruss, William J., and D. C. Demarest, San Francisco, Cal. Regrinder. No. 1,025,185; May 7; Sp. p. 169; Gaz. vol. 178; p. 28.
Gruss, William J., and M. R. McColloms, Ramsey, Nev. Amalgamator. No. 1,032,332; July 9; Gaz. vol. 180; p. 553.
Grüter, Reinhold, Charlottenburg, Germany. Mixture suitable for baking-powder. No. 1,024,330; Apr. 23; Sp. p. 5495; Gaz. vol. 177; p. 963.
Grüter, Reinhold, and H. Pohl, Charlottenburg, Germany. Manufacture of a stable preparation from hydrogen peroxid and urea. No. 1,040,665; Oct. 8; Gaz. vol. 183; p. 371.
Grüttefien, Wilhelm, Vohwinkel, near Elberfeld, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Dioxyphenyl - alpha - propanolamin. No. 1,044,778; Nov. 19; Gaz. vol. 184; p. 667.
Gruver, George W., Bakersfield, Cal. Firearm. No. 1,024,989; Apr. 30; Sp. p. 6979; Gaz. vol. 177; p. 1226.
Gruver, Joseph H., Baltimore, assignor of one-half to F. Norris, Jr., Raspeburg, Md. Non-refillable bottle. No. 1,042,669; Oct. 29; Gaz. vol. 183; p. 1145.
Gruver, Lewis W., Pittsburgh, Pa. Oil-can. No. 1,020,413; Mar. 19; Sp. p. 2976; Gaz. vol. 176; p. 539.
Grzybowski, Julian T., Grand Rapids, Mich. Door-lock. No. 1,017,289; Feb. 13; Sp. p. 2350; Gaz. vol. 175; p. 400.
Gsell, Henry A., Paris, France. Match-making machine. No. 1,020,644; Mar. 19; Sp. p. 3488; Gaz. vol. 176; p. 616.
Gsell, Henry A., Paris, France. Splint-positioning device for match-machines. No. 1,024,772; Apr. 30; Sp. p. 6534; Gaz. vol. 177; p. 1150.
Gsell, Henry A., Paris, France. Machine for measuring off and packing matches in boxes, &c. No. 1,028,349; June 4; Sp. p. 634; Gaz. vol. 179; p. 94.
Guarantee Construction Company. (See Hudson, Wilbur G., assignor.)
Guay, Emile J. (See Fleming and Guay.)
Guay, Emile J., Lynn, Mass., assignor to General Electric Company. Machine for forming and electrically welding tubes. No. 1,022,025; Apr. 2; Sp. p. 583; Gaz. vol. 177; p. 92.
Guay, Emile J., Lynn, Mass., assignor to General Electric Company. Flaming-arc electrode. No. 1,035,119; Aug. 6; Gaz. vol. 181; p. 239.
Guay, Emile J., Lynn, Mass., assignor to General Electric Company. Arc-light electrode. No. 1,039,522; Sept. 24; Gaz. vol. 182; p. 884.
Guay, Emile J., Lynn, Mass., assignor to General Electric Company. Revolving contact-switch. No. 1,044,378; Nov. 12; Gaz. vol. 184; p. 495.
Guay, Felix, Michigamme, Mich. Boiler. No. 1,026,800; May 21; Sp. p. 3765; Gaz. vol. 178; p. 651.
Guba, Ludwig, Dejwitz, near Prague, Austria-Hungary. Means for securing railway-rails. No. 1,039,931; Oct. 1; Gaz. vol. 183; p. 87.
Gubrud, Adolph P., Hudson, S. D. Corn-harvester. No. 1,016,622; Feb. 6; Sp. p. 909; Gaz. vol. 175; p. 136.
Gubrud, Adolph P., Hudson, S. D. Open moldboard for plows. No. 1,027,044; May 21; Sp. p. 4342; Gaz. vol. 178; p. 737.
Gudgell, Llewellyn, Galesburg, Ill. Track-laying machine. No. 1,045,397; Nov. 26; Gaz. vol. 184; p. 907.
Gudmundsen, Abraham, Lehi, Utah. Gate-closer. No. 1,015,436; Jan. 23; Sp. p. 5185; Gaz. vol. 174; p. 891.
Gudmundson, Niels W., Salt Lake City, Utah. Elevator-brake. No. 1,043,693; Nov. 5; Gaz. vol. 184; p. 228.
Guedel, Arthur E., Indianapolis, Ind. Obstetrical anesthetic-machine. No. 1,045,140; Nov. 26; Gaz. vol. 184; p. 818.
Gueffroy, Hermann, assignor to Drahtpapier G. m. b. H., Berlin, Germany. Machine for producing fabric, paper, or cardboard having an inclosure of crossing threads. No. 1,015,174; Jan. 16; Sp. p. 4593; Gaz. vol. 174; p. 775.
Guenette, Alexandre, Lachute Mills, Quebec, Canada. Fire-alarm. No. 1,031,336; July 2; Gaz. vol. 180; p. 171.
Guenther, Henry L., Los Angeles, Cal. Can-head lining and rolling machine. No. 1,046,291; Dec. 3; Gaz. vol. 185; p. 171.
Guenther, Henry L., Los Angeles, Cal. Machine for capping and double-seaming cans. No. 1,049,227; Dec. 31; Gaz. vol. 185; p. 1320.
Guenther, Paul, Dover, N. J. Sectional plating device for straight-knitting machines. No. 1,018,612; Feb. 27; Sp. p. 5314; Gaz. vol. 175; p. 922.
Guertin, Louis N. T., Nashua, N. H. Fan attachment. No. 1,049,081; Dec. 31; Gaz. vol. 185; p. 1272.
Guest, William W., Alameda, Cal. Pneumatic wheel. No. 1,023,516; Apr. 16; Sp. p. 3755; Gaz. vol. 177; p. 663.
Guetschoff, Herman C., Fraser, Mich. Account-register. No. 1,035,001; Aug. 6; Gaz. vol. 181; p. 200.
Guett, Monroe, assignor to The Hart & Hegeman Manufacturing Company, Hartford, Conn. Regulation of electric circuits. No. 1,021,774; Apr. 2; Sp. p. 36; Gaz. vol. 177; p. 9.
Guett, Monroe, assignor to Hart & Hegeman Manufacturing Company, Hartford, Conn. Electric switch. No. 1,028,350; June 4; Sp. p. 635; Gaz. vol. 179; p. 94.
Guett, Monroe, assignor to The Hart & Hegeman Manufacturing Company, Hartford, Conn. Switch-handle. No. 1,047,935; Dec. 24; Gaz. vol. 185; p. 843.
Guffin, Henry T., Duke, Okla. Colt-muzzle. No. 1,032,478; July 16; Gaz. vol. 180; p. 647.
Guiberson, Samuel A., Jr. (See Williams, Bert C., assignor.)
Guiberson, Samuel A., Jr., Coalinga, Cal. Sucker-rod elevator. No. 1,017,869; Feb. 20; Sp. p. 3631; Gaz. vol. 175; p. 634.
Guiberson, Samuel A., Jr., Coalinga, Cal. Well-tubing safety appliance. No. 1,030,084; June 18; Sp. p. 4400; Gaz. vol. 179; p. 759.
Guidarelli, Andrew. (See Scaramucci, Joseph, assignor.)
Guidinger, Louis E., Rolling Stone, Minn. Quack-grass digger. No. 1,027,125; May 21; Sp. p. 4549; Gaz. vol. 178; p. 764.
Guignard, Gaston P., Melun, and H. L. A. M. Watrigant, Lille, France. Column for the drying of liquids, pasty materials, or solid matter. No. 1,036,486; Aug. 20; Gaz. vol. 181; p. 778.
Guild, George H., assignor of one-half to O. Ratcliff, Chicago, Ill. Smoke and spark destroyer. No. 1,016,491; Feb. 6; Sp. p. 579; Gaz. vol. 175; p. 90.
Guiley, Robert P., Akron, Ohio. Mouthpiece for ozone-machines. No. 1,019,787; Mar. 12; Sp. p. 1689; Gaz. vol. 176; p. 294.
Guilford, Wilhelminia M. (See Guilford, William C. J., assignor.)
Guilford, William C. J., assignor to W. M. Guilford, Washington, D. C. Apparatus for forming arch-supports or patterns therefor. No. 1,044,170; Nov. 12; Gaz. vol. 184; p. 424.
Guilford, William C. J., assignor to W. M. Guilford, Washington, D. C. Forming arch-supports or patterns therefor. No. 1,044,171; Nov. 12; Gaz. vol. 184; p. 424.
Guilfoyle, James D., Titusville, Fla. Level. No. 1,041,622; Oct. 15; Gaz. vol. 183; p. 720.
Guillo, Harry P., Revere, assignor to Forbes Lithograph Manufacturing Company, Boston, Mass. Kite. No. 1,029,010; June 11; Sp. p. 2056; Gaz. vol. 179; p. 353.
Guillot, Frank, Schenectady, N. Y., assignor to General Electric Company. Trolley-frog. No. 1,022,546; Apr. 9; Sp. p. 1671; Gaz. vol. 177; p. 296.
Guillot, Frank, Schenectady, N. Y., assignor to General Electric Company. Section-insulator. No. 1,045,972; Dec. 3; Gaz. vol. 185; p. 61.
Guimont, Joseph W., assignor, by mesne assignments, to J. A. Raymond, Montreal, Quebec, Canada. Water-heater. No. 1,048,827; Dec. 31; Gaz. vol. 185; p. 1185.

Guina, William E., Detroit, Mich., assignor to The Gilkey Printing Company, Cleveland, Ohio. Envelop. No. 1,045,836; Dec. 3; Gaz. vol. 185; p. 14.
Guinzburg, George K., assignor to I. B. Kleinert Rubber Company, New York, N. Y. Pouch for tobacco. No. 1,045,020; Nov. 19; Gaz. vol. 184; p. 749.
Guinzburg, Victor, New York, N. Y., assignor to I. B. Kleinert Rubber Company. Baby pants or diaper-cover. No. 1,033,097; July 23; Gaz. vol. 180; p. 895.
Guioness, Merchant W., Philadelphia, Pa. Bath-cabinet. No. 1,035,002; Aug. 6; Gaz. vol. 181; p. 201.
Guise, Clifford, Toronto, Ontario, Canada. Swivel. No. 1,028,351; June 4; Sp. p. 637; Gaz. vol. 179; p. 95.
Guitard, Léon J. (See Iochum, Gabriel, assignor.)
Guiterman, Leopold A. (See Curtis, Frank G., assignor.)
Gulbranson, Hans, Mason City, Iowa. Piston-packing. No. 1,032,204; July 9; Gaz. vol. 180; p. 509.
Gulbrantson, Peder M., assignor of one-fourth to K. Haglund and one-fourth to A. Haglund, Rockford, Ill. Street-indicator for cars. No. 1,026,980; May 21; Sp. p. 4184; Gaz. vol. 178; p. 714.
Gulck, August J. (See Bergmann, Emil, assignor.)
Gulde, Charles F., Beach, N. D. Well-drilling machine. No. 1,013,654; Jan. 2; Sp. p. 1249; Gaz. vol. 174; p. 196.
Guldemann, Arnold, Paterson, N. J. Hand-threading shuttle. No. 1,029,289; June 11; Sp. p. 2635; Gaz. vol. 179; p. 447.
Gulf Red Cedar Company. (See Graham, Edward, assignor.)
Gülicher, Friedrich A., Barmen-Rittershausen, Germany. Spooling-machine. No. 1,020,414; Mar. 19; Sp. p. 2977; Gaz. vol. 176; p. 540.
Gulick, Edward J., assignor to The Simplex Motor Car Company, Mishawaka, Ind. Gas-engine base. No. 1,031,785; July 9; Gaz. vol. 180; p. 367.
Gulick, William R., *et al.* (See Hoskins, Clanmar P., assignor.)
Gulland, Frederick W., Stonewall, Manitoba, Canada. Match-box. No. 1,038,570; Sept. 17; Gaz. vol. 182; p. 537.
Gulliford, Roy T., West Nottingham, Ohio. Variable-throw mechanism for automatic machines. No. 1,025,976; May 14; Sp. p. 1931; Gaz. vol. 178; p. 333.
Gumpel, Hermann, Schlagenthin, near Damsdorf-Müncheberg, Germany. Treating raw potatoes in order to obtain both a cattle food and a proteid. No. 1,047,627; Dec. 17; Gaz. vol. 185; p. 708.
Gunckel, Edward E., *et al.* (See Runner, John B., assignor.)
Gund, Adolf, New York, N. Y. Animated toy. No. 1,032,205; July 9; Gaz. vol. 180; p. 509.
Gundersen, August, Christiania, Norway, assignor of one-half to O. Hoff, New York, N. Y. Pile. No. 1,019,042; Mar. 5; Sp. p. 66; Gaz. vol. 176; p. 13.
Gunderson, Gunder H., Fairchild, Wis. Burglar-alarm. No. 1,046,776; Dec. 10; Gaz. vol. 185; p. 382.
Gunderson, Peter M., Fullerton, N. D. Bag-holder. No. 1,045,281; Nov. 26; Gaz. vol. 184; p. 868.
Gundlach-Manhattan Optical Company. (See Miller, Charles, assignor.)
Gunn, Frank M., Bakersfield, Cal. Hand-truck. No. 1,043,694; Nov. 5; Gaz. vol. 184; p. 229.
Gunn, Robert W. (See Thompson, Kellett, and Gunn.)
Gunn, Selim W., assignor of one-half to H. Flower, Feeding Hills, Mass. Cigar-case. No. 1,016,492; Feb. 6; Sp. p. 580; Gaz. vol. 175; p. 90.
Gunnell, Elias, Manitowoc, Wis. Boat-saddle. No. 1,048,068; Dec. 24; Gaz. vol. 185; p. 885.
Gunten, Edward von, Akron, Ohio. Door-check. No. 1,015,222; Jan. 16; Sp. p. 4682; Gaz. vol. 174; p. 790.
Gunten, Edward von, Akron, Ohio. Combined door check and lock. No. 1,037,377; Sept. 3; Gaz. vol. 182; p. 67.
Gunten, William von. (See Karcher, Otto, assignor.)
Gunter, John W., and J. A. Haardt, Montgomery, Ala. Material-distributer. No. 1,047,796; Dec. 17; Gaz. vol. 185; p. 766.
Gunther, Frank E., Minneapolis, Minn. Machine for transferring loads of material. No. 1,017,749; Feb. 20; Sp. p. 3312; Gaz. vol. 175; p. 592.
Gunther, Jacob, Bergisch Gladbach, near Cologne, Germany. Fuel-pump for combustion-engines of the injection type. No. 1,040,666; Oct. 8; Gaz. vol. 183; p. 371.
Gunther, Joseph W., Portland, Oreg. Screw-propeller. No. 1,035,003; Aug. 6; Gaz. vol. 181; p. 201.
Günther, Oscar, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Brown tetrazo dye. No. 1,019,321; Mar. 5; Sp. p. 714; Gaz. vol. 176; p. 111.
Günther, Wilhelm, Cassel, Germany. Treating ores. No. 1,032,400; July 16; Gaz. vol. 180; p. 621.
Gunther-Wright Machine Company. (See Rounds, Erdix, assignor.)
Günzel, Alfred, Rochlitz, assignor to A. Günzel, Altenburg, Germany. Link chain. No. 1,020,197; Mar. 12; Sp. p. 2544; Gaz. vol. 176; p. 432.
Günzel, Arno. (See Günzel, Alfred, assignor.)
Günzel, Hermann, Lodz, Prussia, Germany. Trap-nest. No. 1,029,924; June 18; Sp. p. 4062; Gaz. vol. 179; p. 705.
Gunzendorfer, Jacob, San Francisco, Cal. Amusement apparatus. No. 1,037,474; Sept. 3; Gaz. vol. 182; p. 102.
Guppey, John P., Boston, assignor to Bedford Safety Razor Company, Bedford, Mass. Blade-grinding machine. No. 1,034,362; July 30; Gaz. vol. 180; p. 1352.
Gurnee, John W., Nunda, N. Y. Rotary kitchen-cabinet. No. 1,044,882; Nov. 19; Gaz. vol. 184; p. 701.
Gus V. Brecht Butchers' Supply Company. (See Collins, John C., assignor.)
Gustafson, Adolph P., assignor to M. Schulz Co., Chicago, Ill. Mechanical musical instrument. No. 1,047,797; Dec. 17; Gaz. vol. 185; p. 767.
Gustafson, Edwin, assignor of one-half to L. Olson, Jamestown, N. Y. Sheet-metal door construction. No. 1,036,832; Aug. 27; Gaz. vol. 181; p. 928.
Gustafson, Gustaf A., Chicago, Ill. Steam and air feeding device for furnaces. No. 1,029,680; June 18; Sp. p. 3493; Gaz. vol. 179; p. 619.
Gustafson, John, New York, N. Y. Clutch. No. 1,026,437; May 14; Sp. p. 2971; Gaz. vol. 178; p. 492.
Gustafson, John A., and J. M. Flickinger, Kushequa, Pa. Brick and block machine. No. 1,038,876; Sept. 17; Gaz. vol. 182; p. 645.
Gustafsson, Hilmer A., Suva, assignor of one-half to J. V. Addis, Nausori P. O., Rewa River, Fiji Islands. Door check and holder. No. 1,042,340; Oct. 22; Gaz. vol. 183; p. 1001.
Gustavson, Ellis V., New York, N. Y. Advertising device. No. 1,047,047; Dec. 10; Gaz. vol. 185; p. 470.
Gütermann, Alexander, Baden, Germany, assignor to Hugh Stevenson & Son, Ltd., Manchester, England. Box-covering machine. No. 1,043,099; Nov. 5; Gaz. vol. 184; p. 18.
Guthman, Eli A., New York, N. Y. Shoe-buckle. No. 1,025,743; May 7; Sp. p. 1404; Gaz. vol. 178; p. 220.
Guthridge, Nehemiah. (See Fenton, Henry, assignor.)
Guthrie, Charles B., St. Louis, Mo. Consolidated tariff-index. No. 1,041,623; Oct. 15; Gaz. vol. 183; p. 720.
Guthrie, Edwin, Washington, D. C. Engine-starter. No. 1,027,648; May 28; Sp. p. 5599; Gaz. vol. 178; p. 978.
Guthrie, Eugene P., Oklahoma, Okla. Telephone-bracket. No. 1,026,260; May 14; Sp. p. 2580; Gaz. vol. 178; p. 432.
Guthrie, Joseph A., assignor to Guthrie-Mitchell Company, Little Rock, Ark. Insulator. No. 1,022,026; Apr. 2; Sp. p. 586; Gaz. vol. 177; p. 92.
Guthrie-Mitchell Company. (See Guthrie, Joseph A., assignor.)
Guthrie, St. Clair, Jr., Blue Rapids, Kans. Ice-cutting machine. No. 1,014,593; Jan. 9; Sp. p. 3270; Gaz. vol. 174; p. 545.
Guthrie, William S., Terrell, Tex. Valve mechanism for carbureters. No. 1,029,606; June 18; Sp. p. 3331; Gaz. vol. 179; p. 593.
Gutknecht, Karl A., Hamburg, Germany. Sending and delivery station for pneumatic-despatch-tube apparatus. No. 1,016,264; Feb. 6; Sp. p. 44; Gaz. vol. 175; p. 9.
Gutta Percha & Rubber Manufacturing Co., The. (See Bolton, Andrew C., assignor.)
Guy, Albert E., Trenton, N. J. Centrifugal pump. No. 1,037,243; Sept. 3; Gaz. vol. 182; p. 22.
Guy, Albert E., Trenton, N. J. Centrifugal pump. No. 1,037,244; Sept. 3; Gaz. vol. 182; p. 23.
Guy, George S., Richmond, Va. Identification device. No. 1,034,107; July 30; Gaz. vol. 180; p. 1263.
Guy, Hugh P., St. Louis, Mo. Tool for picking fruit. No. 1,021,595; Mar. 26; Sp. p. 5520; Gaz. vol. 176; p. 991.
Guy, Samuel L., Tangipahoa, La. Comb-cleaner. No. 1,020,899; Mar. 19; Sp. p. 4023; Gaz. vol. 176; p. 702.
Guy, Walter W., assignor to Colonial Fireplace Co., Chicago, Ill. Fireplace. No. 1,024,508; Apr. 30; Sp. p. 5931; Gaz. vol. 177; p. 1058.
Guy, Webb W., and O. L. Richards, Cushing, Tex. Combined window-awning and fire-protector. No. 1,022,939; Apr. 9; Sp. p. 2551; Gaz. vol. 177; p. 432.
Guye, Charles E. (See Guye, Philippe A. and C. E.)
Guye, Charles E. (See Naville and Guye.)
Guye, Philippe A. (See Naville and Guye.)
Guye, Philippe A. and C. E., Geneva, Switzerland. Apparatus for producing endothermic reactions in gases. No. 1,035,581; Aug. 13; Gaz. vol. 181; p. 430.
Guye, Philippe A., G. Darier, Geneva, Switzerland, and A. Van Vloten, Haarlem, Netherlands. Manufacture of alkaline and earthy-alkaline nitrates. No. 1,036,611; Aug. 27; Gaz. vol. 181; p. 855.
Guye, Philippe A., G. Darier, Geneva, Switzerland, and A. Van Vloten, Haarlem, Netherlands. Manufacture of alkaline and earthy-alkaline nitrates. No. 1,036,833; Aug. 27; Gaz. vol. 181; p. 928.
Guyer, Hans, Zürich, Switzerland. Blading for turbines. No. 1,041,269; Oct. 15; Gaz. vol. 183; p. 606.
Guyor, Oliver, and F. E. Banker, Sumas, Wash. Device for raising sunken vessels. No. 1,039,276; Sept. 24; Gaz. vol. 182; p. 798.
Gwin, William H., La Crosse, Mo. Farm and wagon gate. No. 1,032,894; July 16; Gaz. vol. 180; p. 788.
Gwinn, George W., New York, N. Y., assignor to Automatic Packing & Labeling Company, Durham, N. C. Automatic weighing mechanism. No. 1,020,692; Mar. 19; Sp. p. 3589; Gaz. vol. 176; p. 631.

Alphabetical list of patentees—Continued.

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Gwyer, Herbert J., assignor to L. H. Mace Company, Incorporated, New York, N. Y. Refrigerator. No. 1,032,670; July 16; Gaz. vol. 180; p. 714.
Gwynn-Bacon Vulcanizer Co. (See Bacon and Gwynn, assignors.)
Gwynn, William A. (See Bacon and Gwynn.)
Gyllenberg, John A., assignor of one-half to J. L. Rand, Baker, Oreg. Safety air-brake appliance for railway-cars. No. 1,024,331; Apr. 23; Sp. p. 5496; Gaz. vol. 177; p. 963.
Gyorffy, Louis, Alliance, Ohio. Elevator safety device. No. 1,026,159; May 14; Sp. p. 2357; Gaz. vol. 178; p. 398.
Gyr, Karl H., assignor to Landes and Gyr, Zug, Switzerland. Alternating-current meter. No. 1,039,387; Sept. 24; Gaz. vol. 182; p. 836.
Gyro Motor Company. (See Berliner, Emile, assignor.)
Gyro Motor Company. (See Moore, Robert S., assignor.)
Gyro Motor Company, The. (See Moore and Simmons, assignors.)
Gysi, Alfred, Zürich, Switzerland. Dental articulator. No. 1,041,270; Oct. 15; Gaz. vol. 183; p. 606.
H. Bridgman Smith Company. (See Crankshaw, Alfred H., assignor.)
H. Krantz Manufacturing Company. (See Hemming, Victor, assignor.)
H. Krantz Manufacturing Company. (See Krantz, Hubert F., assignor.)
H. Mueller Manufacturing Co. (See Davis, John C., assignor.)
H. Mueller Manufacturing Company. (See Downs, Samuel T., assignor.)
H. Mueller Manufacturing Company. (See Mueller, Fred B., assignor.)
H. Mueller Manufacturing Company. (See Mueller, Henry, assignor.)
H. Mueller Manufacturing Company. (See Mueller, Philip, assignor.)
H. Mueller Manufacturing Company. (See Mueller, Philip and H., assignors.)
H. Mueller Manufacturing Company. (See Mueller and Mason, assignors.)
H. Mueller Manufacturing Company. (See Mueller and Schuermann, assignors.)
H. Mueller Manufacturing Company. (See Schuermann, Anton C., assignor.)
H. Wetter Manufacturing Company, The. (See Carter, George B., assignor.)
H. B. Hardenburg and Company. (See Specht, John, assignor.)
H. B. Wiggin's Sons Company. (See Mayer, Wiggin, and Cornelison, assignors.)
H. B. Wiggin's Sons Company. (See Wiggin, Joseph N., assignor.)
H. C. Cook Company, The. (See Munger and Carter, assignors.)
H. C. Fry Glass Company. (See Beam, Charles W., assignor.)
H. D. Beach Company. (See Whittam, Frederick F., assignor.)
H. D. Berner & Winterbauer Company. (See Kalthoff, Albrecht, assignor.)
H. F. Brammer Manufacturing Company. (See Edens, John, assignor.)
H. G. Davis Manufacturing Company, The. (See Davis, Harry G., assignor.)
H. H. Franklin Manufacturing Company. (See Wilkinson, John, assignor.)
H. H. Hawley Company. (See De Long, Charles E., assignor.)
H. J. Keith Company. (See Keith, Simeon C., Jr., assignor.)
H. K. Miller Manfg. Co. (See Horrell and Bryant, assignors.)
H. K. Mulford Company, The. (See Turner, Joseph L., assignor.)
H. K. Porter Co. (See Hodges, Charles B., assignor.)
H. K. Porter Co. (See Murphy, Daniel R., assignor.)
H. L. Collins Company. (See Willets, William C., assignor.)
H. L. Dixon Company. (See Dixon, Henry L., assignor.)
H. L. Judd Company. (See Edsall and Lathrop, assignors.)
H. L. Judd Company. (See Lathrop, Frank L., assignor.)
H. L. Judd Company. (See Lathrop and Spokes, assignors.)
H. O. Peck Automobile Wheel Company. (See Reichenbach, George T., assignor.)
H. O. Peck Automobile Wheel Company. (See Reichenbach and Peck, assignors.)
H. T. Paiste Company. (See Webb, Wilmer M., assignor.)
H. W. Caldwell & Son Company. (See Pearce, Robert T., assignor.)
H. W. Johns-Manville Company. (See Christenson, George, assignor.)
H. W. Johns-Manville Company. (See Gilmore, Frank M., assignor.)
H. W. Johns-Manville Company. (See Headson, Frank A., assignor.)
H. W. Johns-Manville Company. (See Seigle, William R., assignor.)
H. W. Johns-Manville Company. (See Wardell, Henry R., assignor.)
H. W. Kearns & Company *et al.* (See Hamilton, John H., assignor.)
Haag, Robert H., Louisville, Ky. Monoplane. No. 1,025,912; May 7; Sp. p. 1799; Gaz. vol. 178; p. 277.
Haag, William, Pembroke, Va. Draft appliance. No. 1,044,883; Nov. 19; Gaz. vol. 184; p. 702.
Haaga, Emil, Stuttgart, Germany. Circular-knitting machine. No. 1,019,632; Mar. 5; Sp. p. 1385; Gaz. vol. 176; p. 211.
Haagn, Ernst. (See Trenzen and Haagn.)
Haakonson, Theodore A., Jelly, Cal. Fluid-actuated clutch. No. 1,046,585; Dec. 10; Gaz. vol. 185; p. 313.
Haardt, John A. (See Gunter and Haardt.)
Haas, August, Grapeville, Pa. Interlocking-block structure. No. 1,013,156; Jan. 2; Sp. p. 138; Gaz. vol. 174; p. 24.
Haas, August, Grapeville, Pa. Interlocking-block structure. No. 1,040,190; Oct. 1; Gaz. vol. 183; p. 173.
Haas, Charles, assignor to Herrenschmidt & Co., Strassburg, Germany. Tanning-drum. No. 1,036,223; Aug. 20; Gaz. vol. 181; p. 689.
Haas, Charles R., Brightwater, British Columbia, Canada. Propeller. No. 1,036,834; Aug. 27; Gaz. vol. 181; p. 928.
Haas, Charles W. (See Manny, Fred L., assignor.)
Haas, Cyrus A., St. Louis, Mo. Check-valve for pneumatic tires. No. 1,043,224; Nov. 5; Gaz. vol. 184; p. 64.
Haas, Cyrus A., St. Louis, Mo. Cutter-head. No. 1,043,225; Nov. 5; Gaz. vol. 184; p. 64.
Haas, Cyrus A., St. Louis, Mo. Gasolene-strainer. No. 1,048,828; Dec. 31; Gaz. vol. 185; p. 1185.
Haas, Frank J., Rocklake, N. D. Adjustable car-step. No. 1,037,475; Sept. 3; Gaz. vol. 182; p. 102.
Haas, Lambert, Vienna, Austria-Hungary, assignor to F. Gebauer, Berlin, Germany. Calender for dyeing, starching, and mercerizing machines. No. 1,023,734; Apr. 16; Sp. p. 4162; Gaz. vol. 177; p. 731.
Haas, Philip, Dayton, Ohio. Flushing device for water-closets. No. 1,034,789; Aug. 6; Gaz. vol. 181; p. 131.
Haas, Samuel, New York, N. Y. Spool-rack. No. 1,022,077; Apr. 2; Sp. p. 688; Gaz. vol. 177; p. 110.
Haas, William, assignor of one-half to E. I. Hanson, New York, N. Y. Electric-lamp-socket attachment. No. 1,032,206; July 9; Gaz. vol. 180; p. 510.
Haase, Charles F., East Atchison, Mo. Shade and curtain holder. No. 1,021,596; Mar. 26; Sp. p. 5522; Gaz. vol. 176; p. 991.
Haase, Herman. (See Hazel and Haase.)
Haase, Herman G., Minneapolis, Minn. Universal angle-coupling and valve-seat for piping. No. 1,031,642; July 2; Gaz. vol. 180; p. 275.
Haase, Herman G., Minneapolis, Minn. Milling attachment for metal-lathes. No. 1,038,571; Sept. 17; Gaz. vol. 182; p. 537.
Haase, Leo G., Pasadena, Cal. Concrete lamp-post. No. 1,026,801; May 21; Sp. p. 3766; Gaz. vol. 178; p. 652.
Haase, Leo G., Pasadena, Cal. Individual concrete sign. No. 1,028,018; May 28; Sp. p. 6417; Gaz. vol. 178; p. 1101.
Haaser, Urbana A., Lawrenceville, Ill. Double packing stuffing-box. No. 1,015,884; Jan. 30; Sp. p. 6150; Gaz. vol. 174; p. 1071.
Habeck, Paul, Rankin, Okla. Mechanical movement. No. 1,016,743; Feb. 6; Sp. p. 1143; Gaz. vol. 175; p. 176.
Habecker, Christian H., Rohrerstown, Pa. Corn-harvester. No. 1,035,434; Aug. 13; Gaz. vol. 181; p. 380.
Haber, Henry J. (See Smith, Clarence G., assignor.)
Haber, Henry J., Pittsburgh, Pa. Spraying device. No. 1,019,322; Mar. 5; Sp. p. 714; Gaz. vol. 176; p. 111.
Haberkorn, Theodore H., Fort Wayne, Ind. By-pass and relief valve device for steam-engines. No. 1,039,523; Sept. 24; Gaz. vol. 182; p. 884.
Haberland, Hermann, and W. Schaefer, assignors to Salzbergwerk Neu-Stassfurt und Theilnehmer, Zscherndorf, Germany. Making penta- and hexa-chlorethanes. No. 1,036,224; Aug. 20; Gaz. vol. 181; p. 690.
Haberman, Alter, New York, N. Y. Folding bed. No. 1,023,562; Apr. 16; Sp. p. 3846; Gaz. vol. 177; p. 677.
Habicht, Braun and Company. (See Wilderman, Emil, assignor.)
Habig, George, Los Angeles, Cal. Roller-bearing drive. No. 1,044,379; Nov. 12; Gaz. vol. 184; p. 496.
Habild, Bruno, assignor to M. Rienow, Charlottenburg, near Berlin, Germany. Machine for beveling the edges of lenses of eyeglasses. No. 1,034,011; July 30; Gaz. vol. 180; p. 1230.
Hacker, Bertalan. (See Polifka and Hacker.)
Hacker, David, New York, N. Y. Flying-machine. No. 1,041,781; Oct. 22; Gaz. vol. 183; p. 813.
Hackett, Alfred, Toronto, Ontario, Canada. Combined throttle and reversing valve. No. 1,018,047; Feb. 20; Sp. p. 4033; Gaz. vol. 175; p. 697.

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Hackett, Charles H., and T. W. Morgan, assignors to W. W. Marsh, Waterloo, Iowa. Cream-exit for centrifugal cream-separators. No. 1,015,018; Jan. 16; Sp. p. 4301; Gaz. vol. 174; p. 724.
Hackett, James, Bellaire, Ohio. Bottle-blank mold. No. 1,019,147; Mar. 5; Sp. p. 316; Gaz. vol. 176; p. 49.
Hackett, James, Port Costa, Cal. Water-gage. No. 1,026,309; May 14; Sp. p. 2686; Gaz. vol. 178; p. 449.
Hackley, George T., Los Angeles, Cal. Tire-signal. No. 1,044,779; Nov. 19; Gaz. vol. 184; p. 667.
Hackley, Sumner A. (See Glaze and Hackley.)
Hackman, John W. (See Yarlott and Hackman.)
Hackney, Leslie S. (See Goldman, Isaac S., assignor.)
Hackney, Leslie S. (See Minor, Daniel B., assignor.)
Hackney, Leslie S., St. Paul, Minn. Clothes-line reel. No. 1,016,493; Feb. 6; Sp. p. 582; Gaz. vol. 175; p. 90.
Hackney, Leslie S., St. Paul, Minn. Motor-plow. No. 1,031,062; July 2; Gaz. vol. 180; p. 76.
Hackney, Leslie S., St. Paul, Minn. Grader attachment for traction-vehicles. No. 1,031,063; July 2; Gaz. vol. 180; p. 77.
Hackney, Leslie S., St. Paul, Minn. Steering device for traction-vehicles. No. 1,031,064; July 2; Gaz. vol. 180; p. 77.
Hackney, Leslie S., St. Paul, Minn. Steering device for traction-vehicles. No. 1,031,065; July 2; Gaz. vol. 180; p. 78.
Hackney, William F., assignor of one-half to E. Bennett, Washington, Kans. Door track and hanger. No. 1,028,714; June 4; Sp. p. 1389; Gaz. vol. 179; p. 216.
Hackney, William L., St. Paul, Minn. Transmission-gearing. No. 1,044,884; Nov. 19; Gaz. vol. 184; p. 702.
Hadaway, John B., Swampscott, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Tack-pulling machine. No. 1,016,328; Feb. 6; Sp. p. 211; Gaz. vol. 175; p. 32.
Hadaway, John B., Swampscott, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for use in the manufacture of boots and shoes. No. 1,019,956; Mar. 12; Sp. p. 2031; Gaz. vol. 176; p. 351.
Hadaway, John B., Swampscott, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Tack-pulling machine. No. 1,021,519; Mar. 26; Sp. p. 5373; Gaz. vol. 176; p. 967.
Hadaway, John B., Swampscott, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Splitting-machine. No. 1,022,414; Apr. 9; Sp. p. 1376; Gaz. vol. 177; p. 252.
Hadaway, John B., Swampscott, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for operating on the sole edges of boots and shoes. No. 1,026,032; May 14; Sp. p. 2062; Gaz. vol. 178; p. 353.
Hadaway, John B., Swampscott, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Rotary tack-pulling tool. No. 1,028,455; June 4; Sp. p. 866; Gaz. vol. 179; p. 130.
Hadaway, John B., Swampscott, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Tack-pulling machine. No. 1,030,886; July 2; Gaz. vol. 180; p. 13.
Hadaway, John B., Swampscott, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for heating and applying adhesives. No. 1,048,527; Dec. 31; Gaz. vol. 185; p. 1080.
Hadaway, John B., Brockton, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Vamp-trimming machine. No. 1,029,187; June 11; Sp. p. 2422; Gaz. vol. 179; p. 412.
Hadaway, John B., Brockton, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Presser-foot mechanism for sewing-machines. No. 1,030,582; June 25; Sp. p. 5605; Gaz. vol. 179; p. 973.
Hadaway, John B., Brockton, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Tack-pulling and tack-driving machine. No. 1,030,776; June 25; Sp. p. 6168; Gaz. vol. 179; p. 1044.
Hadaway, John B., Brockton, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Tack-pulling machine. No. 1,030,777; June 25; Sp. p. 6172; Gaz. vol. 179; p. 1044.
Hadaway, John B., Swampscott, and J. V. Allen, South Weymouth, Mass., assignors to United Shoe Machinery Company, Paterson, N. J. Machine for operating on the sole edges of boots and shoes. No. 1,026,033; May 14; Sp. p. 2064; Gaz. vol. 178; p. 354.
Hadaway, William S., Jr., East Orange, N. J., assignor to Westinghouse Electric & Manufacturing Company. Resistance or heating element. No. 1,013,157; Jan. 2; Sp. p. 139; Gaz. vol. 174; p. 24.
Hadaway, William S., Jr., East Orange, N. J., assignor to Westinghouse Electric and Manufacturing Company. Matrix-drying press. No. 1,015,953; Jan. 30; Sp. p. 6291; Gaz. vol. 174; p. 1095.
Hadaway, William S., Jr., East Orange, N. J., assignor to Westinghouse Electric and Manufacturing Company. Cut-out for electric sad-irons. No. 1,015,954; Jan. 30; Sp. p. 6292; Gaz. vol. 174; p. 1095.
Hadaway, William S., Jr., East Orange, N. J., assignor to Westinghouse Electric and Manufacturing Company. Electric heater. No. 1,018,558; Feb. 27; Sp. p. 5213; Gaz. vol. 175; p. 906.
Hadaway, William S., Jr., East Orange, N. J., assignor to Westinghouse Electric and Manufacturing Company. Press-plate. No. 1,036,612; Aug. 27; Gaz. vol. 181; p. 855.
Hadaway, William S., Jr., East Orange, N. J., assignor to Westinghouse Electric and Manufacturing Company. Electric heating device and constructing the same. No. 1,042,432; Oct. 29; Gaz. vol. 183; p. 1060.
Hadaway, William S., Jr., East Orange, N. J., assignor to Westinghouse Electric and Manufacturing Company. Electrically-heated laundry-roll. No. 1,042,433; Oct. 29; Gaz. vol. 183; p. 1060.
Hadaway, William S., Jr., East Orange, N. J., assignor to Westinghouse Electric and Manufacturing Company. Electric heating apparatus. No. 1,046,777; Dec. 10; Gaz. vol. 185; p. 382.
Hadaway, William S., Jr., East Orange, N. J., and E. E. Rose, Pittsburgh, Pa., assignors to Westinghouse Electric & Manufacturing Company. Electrically-heated culinary apparatus. No. 1,028,107; June 4; Sp. p. 28; Gaz. vol. 179; p. 8.
Hadcock, Charles W., *et al.* (See Sanderson, William J., assignor.)
Hadcock, James, Whitkirk, near Leeds, assignor to Job Day and Sons Limited, Leeds, England. Mechanism for transmitting motion. No. 1,019,891; Mar. 12; Sp. p. 1895; Gaz. vol. 176; p. 330.
Haddorff, Charles A., assignor to Haddorff Piano Company, Rockford, Ill. Piano string-plate. No. 1,032,895; July 16; Gaz. vol. 180; p. 789.
Haddorff Piano Company. (See Haddorff, Charles A., assignor.)
Haddow, William, Ossining, N. Y. Soap-dispensing machine. No. 1,015,620; Jan. 23; Sp. p. 5579; Gaz. vol. 174; p. 956.
Haddow, William, Ossining, N. Y. Soap-dispensing machine. No. 1,015,678; Jan. 23; Sp. p. 5701; Gaz. vol. 174; p. 974.
Haddow, William, Ossining, N. Y. Soap cake. No. 1,026,438; May 14; Sp. p. 2973; Gaz. vol. 178; p. 492.
Haddow, William, Ossining, N. Y. Soap-dispensing machine. No. 1,026,644; May 14; Sp. p. 3409; Gaz. vol. 178; p. 561.
Hadfield, Robert A., Sheffield, England. Making magnetic materials. No. 1,014,218; Jan. 9; Sp. p. 2497; Gaz. vol. 174; p. 420.
Hadjispiridis, Michael D., New York, N. Y. Vacuum-cleaner. No. 1,019,633; Mar. 5; Sp. p. 1387; Gaz. vol. 176; p. 212.
Hadka, Joseph, Chicago, Ill. Automobile-fender. No. 1,026,981; May 21; Sp. p. 4186; Gaz. vol. 178; p. 715.
Hadley, Artemas N., Indianapolis, Ind. Oblique-angled gearing. No. 1,020,900; Mar. 19; Sp. p. 4024; Gaz. vol. 176; p. 702.
Hadley, Frank, Chicago, Ill. Bed attachment. No. 1,019,957; Mar. 12; Sp. p. 2033; Gaz. vol. 176; p. 351.
Hadley, Frank A. (See Chamberlain and Hadley.)
Hadley, Frederick W., Atlanta, Ga. Means for preventing moisture from entering transformer-tanks. No. 1,013,767; Jan. 2; Sp. p. 1497; Gaz. vol. 174; p. 237.
Hadley, Henry, Jr. (See Gibeau and Hadley.)
Hadsel, Alvah D., Wilkes-Barre, Pa. Excavator. No. 1,015,489; Jan. 23; Sp. p. 5306; Gaz. vol. 174; p. 910.
Hadsel, Alvah D., Dorranceton, Pa. Concrete-mixer. No. 1,016,920; Feb. 6; Sp. p. 1517; Gaz. vol. 175; p. 235.
Hadsel, Alvah D., Dorranceton, assignor to Cable Excavator Company, Philadelphia, Pa. Excavator. No. 1,015,486; Jan. 23; Sp. p. 5299; Gaz. vol. 174; p. 908.
Hadsel, Alvah D., Dorranceton, assignor to Cable Excavator Company, Philadelphia, Pa. Hoisting-drum. No. 1,015,487; Jan. 23; Sp. p. 5302; Gaz. vol. 174; p. 909.
Hadsel, Alvah D., Wilkes-Barre, assignor to Cable Excavator Company, Philadelphia, Pa. Excavator. No. 1,015,488; Jan. 23; Sp. p. 5303; Gaz. vol. 174; p. 909.
Hadsel, Alvah D., assignor to Cable Excavator Co., Philadelphia, Pa. Slack-cable excavator. No. 1,045,973; Dec. 3; Gaz. vol. 185; p. 61.
Hadsel, Alvah D., assignor to Cable Excavator Co., Philadelphia, Pa. Excavator. No. 1,046,180; Dec. 3; Gaz. vol. 185; p. 130.
Hadsell, Darwin G. (See Cutler, Burnam B., assignor.)
Haebler, Theodore, *et al.*, trustees. (See Klett, Henry G., assignor.)
Haefely, Emil, Basel, Switzerland, assignor to Westinghouse Electric and Manufacturing Company. Forming-press. No. 1,028,108; June 4; Sp. p. 31; Gaz. vol. 179; p. 8.
Haegen, Henry J., Omaha, Nebr. Machine attachment. No. 1,035,961; Aug. 20; Gaz. vol. 181; p. 595.
Haen, Chemische Fabrik "List," E. de. (See Hermans, Josef, assignor.)
Haerst, Pierre, Chicago, Ill. Wheel. No. 1,020,901; Mar. 19; Sp. p. 4027; Gaz. vol. 176; p. 702.
Haeseler, Charles H., Philadelphia, Pa. Fluid-operated percussion-tool. No. 1,036,998; Aug. 27; Gaz. vol. 181; p. 982.
Haeske, Charles M., and R. F. Anderson, South Bend, Ind. Winding mechanism for dump-wagons. No. 1,039,121; Sept. 24; Gaz. vol. 182; p. 742.
Hafer, Charles C., Phoenix, Ariz. Pulp-agitator. No. 1,020,694; Mar. 19; Sp. p. 3600; Gaz. vol. 176; p. 632.

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Haff, Erastus E., Amityville, N. Y. Washbasin and bath-tub plug. No. 1,014,389; Jan. 9; Sp. p. 2900; Gaz. vol. 174; p. 480.
Haff, Maximilian M. (See Willson and Haff.)
Haff, Max M., assignor to T. L. Willson, Ottawa, Ontario, Canada. Obtaining alkali-metal compounds from minerals containing alkalis. No. 1,018,186; Feb. 20; Sp. p. 4352; Gaz. vol. 175; p. 747.
Haga, Claude H., assignor, by mesne assignments, to Interstate Realty & Construction Company, Alexandria, Va. Concrete-form. No. 1,042,910; Oct. 29; Gaz. vol. 183; p. 1227.
Hagan, C. W. (See Stephens, Jesse T., Sr., assignor.)
Hagan Gas Engine and Mfg. Co., The. (See Hagan, Louis T., assignor.)
Hagan, Louis T., Winchester, Ky. Belt-shifter. No. 1,036,487; Aug. 20; Gaz. vol. 181; p. 779.
Hagan, Louis T., assignor to The Hagan Gas Engine and Mfg. Co., Winchester, Ky. Railway-tank. No. 1,032,896; July 16; Gaz. vol. 180; p. 789.
Hagborg, Jan E., Chicago, Ill. Sailing vessel. No. 1,039,122; Sept. 24; Gaz. vol. 182; p. 742.
Hagen, Claude L., New York, N. Y. Connecting-plug. No. 1,032,133; July 9; Gaz. vol. 180; p. 483.
Hagen, Claude L., New York, N. Y. Stage. No. 1,045,398; Nov. 26; Gaz. vol. 184; p. 907.
Hagen, Ferdinand J., New York, N. Y. Cigar-making machine. No. 1,044,516; Nov. 19; Gaz. vol. 184; p. 573.
Hagen, Frank. (See Eisel, Hagen, and Schroeder.)
Hagen, Michael E., Paul Smiths, N. Y. Rail-anchor. No. 1,041,996; Oct. 22; Gaz. vol. 183; p. 887.
Hagenah, Fred I. D., Stover, Mo. Running-gear for vehicles. No. 1,030,726; June 25; Sp. p. 6017; Gaz. vol. 179; p. 1025.
Hager, Alexander, Jamestown, N. Y. Fly-screen. No. 1,045,837; Dec. 3; Gaz. vol. 185; p. 14.
Hager, Charles E. O., Toledo, Ohio. Clutch. No. 1,029,607; June 18; Sp. p. 3334; Gaz. vol. 179; p. 594.
Hager, Charles F., Oswego, N. Y. Pen or pencil holder. No. 1,032,401; July 16; Gaz. vol. 180; p. 621.
Hager, Harry. (See Hedfeldt and Hager.)
Hager, Harry, Chicago, Ill. Carton-sealing machine. No. 1,013,768; Jan. 2; Sp. p. 1498; Gaz. vol. 174; p. 237.
Hager, John E. (See Gerahty and Hager.)
Hager, John E., New York, N. Y. Bottle-stopper. No. 1,023,735; Apr. 16; Sp. p. 4163; Gaz. vol. 177; p. 731.
Hager, John E., and R. H. Porteous, New York, N. Y. Pencil-sharpener. No. 1,026,671; May 21; Sp. p. 3477; Gaz. vol. 178; p. 607.
Hagerman, William A., assignor of one-half to W. J. Hill, London, Ontario, Canada. Holdback. No. 1,022,626; Apr. 9; Sp. p. 1844; Gaz. vol. 177; p. 323.
Hagerstrom, John A., assignor of one-half to H. A. Reybert, Brooklyn, N. Y. Dispensing attachment for cartons. No. 1,043,226; Nov. 5; Gaz. vol. 184; p. 65.
Hagey, James C., assignor to The Cable Company, Chicago, Ill. Tracker device for sheet-controlled instruments. No. 1,031,923; July 9; Gaz. vol. 180; p. 415.
Hagg, Virgil B., assignor to Continental Water Purifying Corporation, Los Angeles, Cal. Electrolytic water-purifier. No. 1,038,122; Sept. 10; Gaz. vol. 182; p. 348.
Hagg, Virgil B., assignor to Continental Water Purifying Corporation, Los Angeles, Cal. Water-purifier. No. 1,038,353; Sept. 10; Gaz. vol. 182; p. 427.
Haggard, Robert A. (See Hampton, William F. and C. W., assignors.)
Haggenmiller, August, Tarica, Peru. Smelting sulfid ores. No. 1,021,096; Mar. 26; Sp. p. 4432; Gaz. vol. 176; p. 820.
Haggerty, Francis M., Philadelphia, Pa. Sun-vizor, eye-shade, and advertising device. No. 1,030,173; June 18; Sp. p. 4563; Gaz. vol. 179; p. 789.
Haglund, Anton, *et al.* (See Gulbrantson, Peder M., assignor.)
Haglund, Karl, *et al.* (See Gulbrantson, Peder M., assignor.)
Hagman, William J., Philadelphia, Pa., assignor to Niles-Bement-Pond Company, Jersey City, N. J. Steam-hammer throttle-gear. No. 1,034,911; Aug. 6; Gaz. vol. 181; p. 170.
Hagman, William J., Philadelphia, Pa., assignor to Niles-Bement-Pond Company, Jersey City, N. J. Hammer-press. No. 1,039,277; Sept. 24; Gaz. vol. 182; p. 798.
Hagmann, John G., assignor of one-half to G. M. Heath, La Crosse, Wis. Wheat-heater. No. 1,026,743; May 21; Sp. p. 3632; Gaz. vol. 178; p. 631.
Hagstrom, Anders R., Wataga, Ill. Vehicle attachment. No. 1,032,134; July 9; Gaz. vol. 180; p. 483.
Hagstrom, Carl J., Glen Cove, N. Y. Fastening device for shutters and the like. No. 1,039,388; Sept. 24; Gaz. vol. 182; p. 836.
Hague, Charles E. (See Leich and Hague.)
Hague, George, *et al.* (See Lindsey, Charles E., assignor.)
Hague, John L., Minneapolis, Minn. Ball-cock. No. 1,045,399; Nov. 26; Gaz. vol. 184; p. 908.
Hahl Automatic Clock Company. (See Hale, Charles B., assignor.)
Hahl, Hans. (See Taub and Hahl.)
Hahn, August, St. Louis, Mo. Air-inlet for beer-kegs. No. 1,013,158; Jan. 2; Sp. p. 141; Gaz. vol. 174; p. 24.
Hahn, Emil, New York, N. Y. Lock. No. 1,020,978; Mar. 26; Sp. p. 4206; Gaz. vol. 176; p. 781.
Hahn, Jacob. (See Quick, Frank J., assignor.)
Hahn, James D. (See Travers, William E., assignor.)
Hahn, Jan B., assignor of one-half to R. Kmunke, Vienna, Austria-Hungary. Producing wall and floor linings. No. 1,048,528; Dec. 31; Gaz. vol. 185; p. 1080.
Hahn, John, Los Angeles, Cal. Pump-fitting. No. 1,021,188; Mar. 26; Sp. p. 4634; Gaz. vol. 176; p. 850.
Hahn, John, Los Angeles, Cal. Fluid-packing pump-piston. No. 1,024,130; Apr. 23; Sp. p. 5084; Gaz. vol. 177; p. 894.
Hahn, John, Los Angeles, Cal. Pumping apparatus. No. 1,031,643; July 2; Gaz. vol. 180; p. 275.
Hahn, John, Los Angeles, Cal. Deep-well pump. No. 1,045,282; Nov. 26; Gaz. vol. 184; p. 868.
Hahn, John N., Cleveland, Ohio. Machine for facing corrugated paper. No. 1,015,385; Jan. 23; Sp. p. 5069; Gaz. vol. 174; p. 874.
Hahn, Robert M., London, England. Fastening device for corsets and other like garments. No. 1,023,374; Apr. 16; Sp. p. 3462; Gaz. vol. 177; p. 618.
Hahn, William S., Mountain Dale, Oreg. Drag sawing-machine. No. 1,015,175; Jan. 16; Sp. p. 4597; Gaz. vol. 174; p. 775.
Hahnefeld, Ernst H., assignor of one-half to H. Stockmeir, Baltimore, Md. Safety attachment for jewelry. No. 1,019,788; Mar. 12; Sp. p. 1690; Gaz. vol. 176; p. 294.
Hähnle, Carl K., Reutlingen, Germany. Producing paper-pulp from old paper. No. 1,026 577; May 14; Sp. p. 3249; Gaz. vol. 178; p. 537.
Haight, Hiram H., Clarinda, Iowa. Portable well boring and drilling machine. No. 1,038,877; Sept. 17; Gaz. vol. 182; p. 645.
Haight, James P., Hoopeston, assignor to Sprague Canning Machinery Company, Chicago, Ill. Can-filling machine. No. 1,029,681; June 18; Sp. p. 3495; Gaz. vol. 179; p. 619.
Haight, Roy S., Viking, Alberta, Canada. Runner for motor-sleighs. No. 1,044,646; Nov. 19; Gaz. vol. 184; p. 618.
Haight, William H., Northfield, Minn. Culvert. No. 1,048,153; Dec. 24; Gaz. vol. 185; p. 915.
Hail, Edward L., Providence, R. I. Waterproof overshoe and legging. No. 1,014,873; Jan. 16; Sp. p. 3984; Gaz. vol. 174; p. 674.
Hailwood, Ernest A., Morley, England. Miner's safety-lamp. No. 1,023,563; Apr. 16; Sp. p. 3848; Gaz. vol. 177; p. 678.
Hailwood, Ernest A., Morley, near Leeds, England. Apparatus for igniting miners' lamps. No. 1,030,297; June 25; Sp. p. 4863; Gaz. vol. 179; p. 870.
Hain, Clifford E., Omaha, Nebr. Electric switch. No. 1,049,296; Dec. 31; Gaz. vol. 185; p. 1344.
Hainer Bookkeeping Machine Company. (See Hainer, Whitfield J., assignor.)
Hainer, Whitfield, Toronto, Ontario, Canada. Cash-recorder. No. 1,043,100; Nov. 5; Gaz. vol. 184; p. 18.
Hainer, Whitfield J., assignor to Hainer Bookkeeping Machine Company, Providence, R. I. Account-file. No. 1,037,476; Sept. 3; Gaz. vol. 182; p. 102.
Haines, C. L. N. (See Wilson and Mathey, assignors.)
Haines, Charles, assignor to The Canton Culvert Company, Canton, Ohio. Culvert. No. 1,030,298; June 25; Sp. p. 4866; Gaz. vol. 179; p. 871.
Haines, David E., Battle Creek, Mich. Ratchet-wrench. No. 1,014,463; Jan. 9; Sp. p. 3038; Gaz. vol. 174; p. 504.
Haines, Elbridge S., St. John, New Brunswick, Canada. Sawing-machine. No. 1,023,079; Apr. 9; Sp. p. 2817; Gaz. vol. 177; p. 480.
Haines, John H. J., New York, N. Y. Phonograph. No. 1,042,110; Oct. 22; Gaz. vol. 183; p. 925.
Haines, Lewis A., Columbus, Ohio. Thermodynamic motor. No. 1,025,869; May 7; Sp. p. 1666; Gaz. vol. 178; p. 262.
Haines, Lewis A., Mount Vernon, Ohio, assignor to Haines Thermo Dynamic Motor Company, Pittsburgh, Pa. Thermodynamic motor. No. 1,037,757; Sept. 3; Gaz. vol. 182; p. 194.
Haines, Samuel. (See Lambert, Lewis C., assignor.)
Haines, Samuel W., Sparta, Mich. Cabinet-clamp. No. 1,045,974; Dec. 3; Gaz. vol. 185; p. 61.
Haines Thermo Dynamic Motor Company. (See Haines, Lewis A., assignor.)
Haines, William, Philadelphia, Pa. Watch. No. 1,022,078; Apr. 2; Sp. p. 690; Gaz. vol. 177; p. 110.
Hains, Peter C., Jr., Washington, D. C. Terminal clip. No. 1,029,499; June 11; Sp. p. 3103; Gaz. vol. 179; p. 521.
Hainsworth, George A. J., Newark, Ohio. Bolt threading and slotting mechanism. No. 1,018,706; Feb. 27; Sp. p. 5506; Gaz. vol. 175; p. 954.
Haisley, Charles H., assignor to Kitselman Brothers, Muncie, Ind. Wire-fence machine. No. 1,047,125; Dec. 10; Gaz. vol. 185; p. 499.
Haizmann, Friedrich, Stuttgart, Germany. Means for securing door-latch handles. No. 1,015,679; Jan. 23; Sp. p. 5702; Gaz. vol. 174; p. 975.

Alphabetical list of patentees—Continued.

Hajdú, Joseph, Pricedale, and S. Németh, Grindstone, Pa. Metallic tie and joint. No. 1,020,415; Mar. 19; Sp. p. 2981; Gaz. vol. 176; p. 540.
Hajdú, Kálmán, Youngstown, Ohio. Combined razor and scissors. No. 1,013,159; Jan. 2; Sp. p. 142; Gaz. vol. 174; p. 25.
Hajjar, Solomon D., Lawrence, Mass. Developing-camera. No. 1,031,786; July 9; Gaz. vol. 180; p. 367.
Hajos, Albin, Chattanooga, Tenn. Cushion-tire. No. 1,021,983; Apr. 2; Sp. p. 498; Gaz. vol. 177; p. 79.
Hakins, George B., Norwood, N. Y. Dental cleaning device. No. 1,014,594; Jan. 9; Sp. p. 3273; Gaz. vol. 174; p. 546.
Halász, Mano, Budapest, Austria-Hungary. Drop-window. No. 1,032,825; July 16; Gaz. vol. 180; p. 766.
Halbleib, Edward A., assignor to Northeast Electric Company, Rochester, N. Y. Engine-starting apparatus. No. 1,017,538; Feb. 13; Sp. p. 2879; Gaz. vol. 175; p. 486.
Halbleib, Edward A., assignor to Northeast Electric Company, Rochester, N. Y. Starting device for internal-combustion engines. No. 1,024,447; Apr. 23; Sp. p. 5750; Gaz. vol. 177; p. 1000.
Halbleib, Edward A., assignor to Northeast Electric Company, Rochester, N. Y. Battery-charging apparatus. No. 1,024,448; Apr. 23; Sp. p. 5752; Gaz. vol. 177; p. 1000.
Halbleib, Edward A., assignor to Northeast Electric Company, Rochester, N. Y. Device for charging storage batteries. No. 1,034,108; July 30; Gaz. vol. 180; p. 1264.
Halbleib, Edward A., assignor to Northeast Electric Company, Rochester, N. Y. Engine-starting apparatus. No. 1,034,230; July 30; Gaz. vol. 180; p. 1306.
Halbleib, Edward A., assignor to Northeast Electric Company, Rochester, N. Y. Electric motor or generator. No. 1,041,782; Oct. 22; Gaz. vol. 183; p. 814.
Haldane, Richard K., Sanford, Fla. Window-lock. No. 1,029,011; June 11; Sp. p. 2057; Gaz. vol. 179; p. 354.
Haldeman, Charles D., Milo, assignor to Haldeman Mfg. Company, Indianola, Iowa. Farm-gate. No. 1,033,394; July 23; Gaz. vol. 180; p. 996.
Haldeman, Charles F., assignor to The Silver Manufacturing Company, Salem, Ohio. Feed-cutter. No. 1,027,537; May 28; Sp. p. 5377; Gaz. vol. 178; p. 942.
Haldeman Mfg. Company. (See Haldeman, Charles D., assignor.)
Hale, Alexander B. (See Chambers, John A., assignor.)
Hale, Alfred T. C. (See Bates and Hale.)
Hale, Arthur, New York, N. Y. Slipper with removable counter. No. 1,027,249; May 21; Sp. p. 4786; Gaz. vol. 178; p. 806.
Hale, Arthur, New York, N. Y. Sanitary footwear. No. 1,030,085; June 18; Sp. p. 4402; Gaz. vol. 179; p. 760.
Hale, Arthur, New York, N. Y. Washable footwear with heels. No. 1,036,999; Aug. 27; Gaz. vol. 181; p. 983.
Hale, Charles B., assignor to Hahl Automatic Clock Company, Chicago, Ill. Program-clock. No. 1,027,202; May 21; Sp. p. 4696; Gaz. vol. 178; p. 789.
Hale, Cornelius E. (See Feid, Francis, assignor.)
Hale, David C., Jr., Cincinnati, Ohio. Clothes-pressing machine. No. 1,037,899; Sept. 10; Gaz. vol. 182; p. 275.
Hale, David C., Jr., Cincinnati, Ohio. Pressing garments. No. 1,038,123; Sept. 10; Gaz. vol. 182; p. 349.
Hale, Erastus D., Bellevue, Ohio. Horse-collar. No. 1,047,628; Dec. 17; Gaz. vol. 185; p. 708.
Hale, Frank A., Chicago, Ill. Standard for desk-calendars. No. 1,046,181; Dec. 3; Gaz. vol. 185; p. 131.
Hale, Harry H., Columbus, Ohio. Coupling for pipes. No. 1,040,191; Oct. 1; Gaz. vol. 183; p. 174.
Hale, James E., assignor to The Goodyear Tire and Rubber Company, Akron, Ohio. Vehicle-rim. No. 1,013,387; Jan. 2; Sp. p. 658; Gaz. vol. 174; p. 104.
Hale, James E., assignor to The Goodyear Tire and Rubber Company, Akron, Ohio. Vehicle wheel-rim. No. 1,028,109; June 4; Sp. p. 32; Gaz. vol. 179; p. 9.
Hale and Kilburn Company. (See Budd, Edward G., assignor.)
Hale and Kilburn Company. (See Budd and Gravell, assignors.)
Hale and Kilburn Company. (See Gravell, James H., assignor.)
Hale and Kilburn Company. (See Kilburn, John E., assignor.)
Hale and Kilburn Company. (See Thomas, Harold M., assignor.)
Hale, William M., Charleston, S. C. Digging-machine. No. 1,039,932; Oct. 1; Gaz. vol. 183; p. 87.
Halecki, Alexander, Barnesboro, Pa. Steam-boiler. No. 1,032,135; July 9; Gaz. vol. 180; p. 484.
Halecki, Alexander, Barnesboro, Pa. Pressure-regulator for steam-boilers. No. 1,032,136; July 9; Gaz. vol. 180; p. 484.
Hales, Henry W. (See Steadman and Hales.)
Haley, Clay, *et al.* (See Wyatt, John H., assignor.)
Haley, Harrison Y., Rushsylvania, assignor of one-third to H. F. Campbell, Rossburg, and C. D. Campbell, Bellefontaine, Ohio. Detector for party-line telephones. No. 1,024,131; Apr. 23; Sp. p. 5087; Gaz. vol. 177; p. 895.
Haley, Walker, *et al.* (See Wyatt, John H., assignor.)
Haley, Walter E., Roanoke, Va. Device for car-doors. No. 1,031,258; July 2; Gaz. vol. 180; p. 145.
Halfpenny, Martin, Pontiac, Mich. Demountable rim for automobile or other wheels. No. 1,031,259; July 2; Gaz. vol. 180; p. 145.
Halinka, George, Alliance, Ohio. Rail-fastener. No. 1,035,582; Aug. 13; Gaz. vol. 181; p. 430.
Hall, Albert H., Peru, assignor to Forster Manufacturing Company, Dixfield, Me. Machine for stacking toothpicks and the like. No. 1,024,773; Apr. 30; Sp. p. 6538; Gaz. vol. 177; p. 1151.
Hall, Albert H., Peru, assignor to Forster Manufacturing Company, Dixfield, Me. Mechanism for stacking and conveying toothpicks. No. 1,024,774; Apr. 30; Sp. p. 6541; Gaz. vol. 177; p. 1151.
Hall, Alfred, Los Gatos, Cal., assignor of one-third to W. M. Whitten, Dorchester, Mass. Stamp-affixing device. No. 1,046,292; Dec. 3; Gaz. vol. 185; p. 172.
Hall, Alice A., Hollywood, Cal. Skirt-marker. No. 1,023,842; Apr. 23; Sp. p. 4426; Gaz. vol. 177; p. 795.
Hall, Allen E., Merion, Pa. Motor-vehicle spring. No. 1,037,477; Sept. 3; Gaz. vol. 182; p. 103.
Hall, Allen S., Kokomo, Ind. Mud-guard fastener. No. 1,024,934; Apr. 30; Sp. p. 6873; Gaz. vol. 177; p. 1207.
Hall, Almon. (See Walter, David C., assignor.)
Hall, Andrew J., Clinton, Ill. Exhaust-stand. No. 1,039,524; Sept. 24; Gaz. vol. 182; p. 885.
Hall, Arthur C., Hannibal, N. Y. Rotary engine. No. 1,047,208; Dec. 17; Gaz. vol. 185; p. 558.
Hall, Benjamin K., Seattle, assignor of one-fourth to A. F. Eastman, Pierce county, Wash. Portable turn-table. No. 1,015,885; Jan. 30; Sp. p. 6151; Gaz. vol. 174; p. 1072.
Hall, Bicknell, Taunton, assignor to Rotary Ring Spinning Company, Boston, Mass. Holder for rotary spinning-rings. No. 1,034,790; Aug. 6; Gaz. vol. 181; p. 131.
Hall, Bicknell, Taunton, assignor to Rotary Ring Spinning Company, Boston, Mass. Holder for spinning-rings. No. 1,040,535; Oct. 8; Gaz. vol. 183; p. 322.
Hall, Caleb C., Amity, Oreg. Drag-saw machine. No. 1,044,647; Nov. 19; Gaz. vol. 184; p. 618.
Hall, Charles G. (See Davis, John W., assignor.)
Hall, Charles H., Frankfort, Ind., assignor of one-half to T. R. Foley, Chicago, Ill. Automatic corn-planter. No. 1,018,613; Feb. 27; Sp. p. 5317; Gaz. vol. 175; p. 923.
Hall, Charles J., Rosalia, Wash. Sack-holder. No. 1,036,225; Aug. 20; Gaz. vol. 181; p. 690.
Hall, Charles R., Seabeck, Wash. Concrete structure. No. 1,020,645; Mar. 19; Sp. p. 3490; Gaz. vol. 176; p. 616.
Hall, Charles T., Buffalo, N. Y. Card-shuffler. No. 1,041,271; Oct. 15; Gaz. vol. 183; p. 607.
Hall, Charles T., assignor of one-half to E. J. Smith, Buffalo, N. Y. Card-shuffler. No. 1,014,219; Jan. 9; Sp. p. 2497; Gaz. vol. 174; p. 420.
Hall, Chester I., assignor to Minerallac Electric Company, Chicago, Ill. Maximum-indicating and watt-hour meter. No. 1,028,715; June 4; Sp. p. 1391; Gaz. vol. 179; p. 216.
Hall, Chester P., assignor to Delta-Star Electric Company, Chicago, Ill. Pipe-joint. No. 1,030,237; June 18; Sp. p. 4715; Gaz. vol. 179; p. 811.
Hall, Dwight K., Goshen, N. Y. Bedstead. No. 1,028,716; June 4; Sp. p. 1395; Gaz. vol. 179; p. 216.
Hall, Edward C., *et al.* (See Rupley, George H., assignor.)
Hall, Edward F., Minneapolis, Minn. Gas-cock attachment. No. 1,033,314; July 23; Gaz. vol. 180; p. 970.
Hall, Elmer E., Chicago, Ill. Speculum. No. 1,020,281; Mar. 12; Sp. p. 2712; Gaz. vol. 176; p. 460.
Hall, Elmer E., Wausau, Wis., assignor to L. W. Hall, Chicago, Ill. Syringe. No. 1,048,069; Dec. 24; Gaz. vol. 185; p. 885.
Hall, Eric E., Chicago, Ill. Hanger-support for concrete floors. No. 1,018,490; Feb. 27; Sp. p. 5008; Gaz. vol. 175; p. 881.
Hall, Francis C., Kansas City, Mo. Chair-stool. No. 1,020,902; Mar. 19; Sp. p. 4028; Gaz. vol. 176; p. 703.
Hall, Frank, Fairbury, assignor to King & Hamilton Company, Ottawa, Ill. Cleaning apparatus for corn-shellers, &c. (Reissue.) No. 13,418; May 14; Sp. p. 3421; Gaz. vol. 178; p. 564.
Hall, Frank A., Okemos, Mich. Lamp. No. 1,038,354; Sept. 10; Gaz. vol. 182; p. 427.
Hall, Frank E., *et al.* (See Rose, Max C., assignor.)
Hall, Frank M., assignor of one-ninth to J. A. Bourne, one-ninth to J. Baxter, one-ninth to W. J. Rose, one-ninth to J. Brooks, one-ninth to F. A. Poe, one-ninth to W. W. Brandon, one-ninth to F. J. Dunn, and one-ninth to R. N. Jenkins, Bellflower, Ill. Railway-switch. No. 1,018,314; Feb. 20; Sp. p. 4592; Gaz. vol. 175; p. 789.
Hall, Fred C., Wilkinsburg, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Dynamo-electric machine. No. 1,036,835; Aug. 27; Gaz. vol. 181; p. 929.
Hall, Frederick H., Norton Lindsay, England. Reinforced inner tube for pneumatic tires. No. 1,014,464; Jan. 9; Sp. p. 3039; Gaz. vol. 174; p. 504.
Hall, George C., Adrian, Mich. Cover for milk-cans. No. 1,033,009; July 16; Gaz. vol. 180; p. 826.

Alphabetical list of patentees—Continued.

Hall, George F., Providence, R. I. Cravat holder and former. No. 1,042,220; Oct. 22; Gaz. vol. 183; p. 960.
Hall, Gust, and J. Brand, Princeton, Minn. Mail-bag catcher and deliverer. No. 1,029,440; June 11; Sp. p. 2989; Gaz. vol. 179; p. 500.
Hall, Harold H., East Bridgewater, Mass. Plate-lifter. No. 1,047,209; Dec. 17; Gaz. vol. 185; p. 559.
Hall, Harris F. (See Wright and Hall.)
Hall, Harry F., assignor to The Enterprise Manufacturing Company of Pennsylvania, Philadelphia, Pa. Culinary machine. No. 1,036,488; Aug. 20; Gaz. vol. 181; p. 779.
Hall, Harry F., assignor to The Enterprise Manufacturing Company of Pennsylvania, Philadelphia, Pa. Culinary machine. No. 1,036,489; Aug. 20; Gaz. vol. 181; p. 780.
Hall, Hartwell & Co. (See McKay, Joseph, assignor.)
Hall, Harvey H., Golden, Colo., assignor to The Ideal Disappearing Wall Bed Company. Folding wall-bed. No. 1,042,670; Oct. 29; Gaz. vol. 183; p. 1145.
Hall, Henry, Arlington, N. J., assignor to Appelbee & Neuman, New York, N. Y. Machine for shanking buttons. No. 1,046,462; Dec. 10; Gaz. vol. 185; p. 269.
Hall, Hiram P., New York, N. Y., assignor to E. I. du Pont de Nemours Powder Company, Wilmington, Del. Cartridge-loading machine. No. 1,031,644; July 2; Gaz. vol. 180; p. 276.
Hall, Ina O., Calgary, Alberta, assignor of one-half to H. C. Strange, Bassano, Canada. Device for applying hair-tonics. No. 1,014,465; Jan. 9; Sp. p. 3040; Gaz. vol. 174; p. 504.
Hall, James A., assignor of one-half to J. C. Kunz, Detroit, Mich. Combination reel and rack for the exhibition of wall-paper. No. 1,029,806; June 18; Sp. p. 3773; Gaz. vol. 179; p. 664.
Hall, James B., Cleveland, Ohio. Grease-cup. No. 1,027,538; May 28; Sp. p. 5378; Gaz. vol. 178; p. 942.
Hall, James M., Sulphur Springs, Tex. Lamp-socket. No. 1,017,051; Feb. 13; Sp. p. 1822; Gaz. vol. 175; p. 316.
Hall, James M., Sulphur Springs, Tex. Battery-connector. No. 1,041,464; Oct. 15; Gaz. vol. 183; p. 671.
Hall, Jay H., assignor to The Electric Controller and Manufacturing Company, Cleveland, Ohio. Safety device for electric hoists. No. 1,027,126; May 21; Sp. p. 4551; Gaz. vol. 178; p. 765.
Hall, Johann G., Gardar township, Pembina county, N. D. Wire-stretcher. No. 1,017,147; Feb. 13; Sp. p. 2041; Gaz. vol. 175; p. 351.
Hall, John. (See Jones and Hall.)
Hall, John, Jr., West Springfield, assignor to Springfield Sanitary Drinking Fountain Company, Chicopee, Mass. Drinking-fountain. No. 1,047,210; Dec. 17; Gaz. vol. 185; p. 559.
Hall, John J., Bucksport, Me. Bilge-discharging device. No. 1,023,843; Apr. 23; Sp. p. 4429; Gaz. vol. 177; p. 795.
Hall, John L., Schenectady, N. Y., assignor to General Electric Company. Control system for projectors and the like. No. 1,021,250; Mar. 26; Sp. p. 4771; Gaz. vol. 176; p. 871.
Hall, John L., Schenectady, N. Y., assignor to General Electric Company. Control system. No. 1,029,362; June 11; Sp. p. 2808; Gaz. vol. 179; p. 473.
Hall, John N., and A. A. Hodgson, Kansas City, Mo. Railway-crossing. No. 1,045,838; Dec. 3; Gaz. vol. 185; p. 15.
Hall, John W. (See Alexander and Hall.)
Hall, John W., and C. Baynes, London, England. Detachable rim for resilient tires. No. 1,022,842; Apr. 9; Sp. p. 2334; Gaz. vol. 177; p. 399.
Hall, Joseph, Manchester, England. Exhaust-muffler. No. 1,023,644; Apr. 16; Sp. p. 4011; Gaz. vol. 177; p. 704.
Hall, Julius C., Wallingford, Conn. Food-cutter. No. 1,046,778; Dec. 10; Gaz. vol. 185; p. 382.
Hall, Layula W. (See Hall, Elmer E., assignor.)
Hall, Leon M. (See Dunn and Hall.)
Hall, Louis H. (See Hall, William H. and L. H.)
Hall, Mabel H., executrix. (See Rupley, George H.)
Hall, Mattie A. (See Hall, William H., assignor.)
Hall, Melville P. (See Coleman, Clyde J., assignor.)
Hall, Morris S. (See Ferguson, Julius F., assignor.)
Hall, Newton L., Denver, Colo. Radial head-gate. No. 1,036,613; Aug. 27; Gaz. vol. 181; p. 856.
Hall, Oliver W., San Jose, Cal. Pipe-wrench. No. 1,026,802; May 21; Sp. p. 3768; Gaz. vol. 178; p. 652.
Hall, Oscar E., assignor to H. J. Stevens, Pawnee City, Nebr. Railway cross-tie. No. 1,022,362; Apr. 2; Sp. p. 1270; Gaz. vol. 177; p. 204.
Hall Printing Press Company. (See White, Joseph, assignor.)
Hall, Robert B., assignor of one-half to S. Atkinson, Madison, Ga. Evaporator. No. 1,039,525; Sept. 24; Gaz. vol. 182; p. 885.
Hall, Samuel F., Niagara Falls, N. Y., assignor to Norton Company, Worcester, Mass. Refractory article and making it. No. 1,030,999; July 2; Gaz. vol. 180; p. 53.
Hall Signal Co., The. (See Arkenburgh, Weber H., assignor.)
Hall Signal Company, The. (See Coleman, Clarence W., assignor.)
Hall Signal Company, The. (See Coleman, Clyde J., assignor.)
Hall Signal Company, The. (See Lee, Thomas L., Jr., assignor.)
Hall Switch and Signal Company, The. (See Coleman, Clyde J., assignor.)
Hall, Thomas, assignor to Ridgway Dynamo & Engine Company, Ridgway, Pa. Valve-gear. No. 1,013,549; Jan. 2; Sp. p. 1000; Gaz. vol. 174; p. 160.
Hall, Thomas A. (See Hanchett and Hall.)
Hall, Thomas S., assignor of one-half to S. Johnson, Sullivan, Ill. Automatic cushion tongue-support. No. 1,039,526; Sept. 24; Gaz. vol. 182; p. 885.
Hall, Vernon P. (See Briggs and Hall.)
Hall, Vernon W., Portland, Me. Game apparatus. No. 1,027,539; May 28; Sp. p. 5379; Gaz. vol. 178; p. 942.
Hall, William, assignor to H. Gardiner, New York, N. Y., F. E. Fennessy, Brookline, Mass., and E. H. Fennessy, Meriden, Conn. Machine for wrapping pamphlets and similar articles. No. 1,041,069; Oct. 15; Gaz. vol. 183; p. 538.
Hall, William A., Sr., Pardeeville, Wis. Potato-planter. No. 1,016,265; Feb. 6; Sp. p. 46; Gaz. vol. 175; p. 10.
Hall, William E., *et al.* (See Sharts, Trueman P., assignor.)
Hall, William G., Honolulu, and W. Searby, Puunene, Hawaii. Evaporator. No. 1,033,580; July 23; Gaz. vol. 180; p. 1057.
Hall, William H., assignor to M. A. Hall, Cicero, Ill. Tellurian clock. No. 1,040,310; Oct. 8; Gaz. vol. 183; p. 245.
Hall, William H. and L. H., Winlock, Wash. Pot-handle. No. 1,015,176; Jan. 16; Sp. p. 4601; Gaz. vol. 174; p. 775.
Hall, William L. (See Lichtenberg, Erich H., assignor.)
Hall, William R., Warner, N. H. Spark-arrester. No. 1,016,069; Jan. 30; Sp. p. 6556; Gaz. vol. 174; p. 1138.
Hall, William R., Warner, N. H. Book and bundle rack for bicycles. No. 1,040,192; Oct. 1; Gaz. vol. 183; p. 174.
Halladay, Horace K. (See Laeufer, Jacob, assignor.)
Halladay, Lewis P., Chicago, Ill. Automobile attachment. No. 1,043,227; Nov. 5; Gaz. vol. 184; p. 65.
Halladey, William H., Bemidji, Minn. Autosleigh. No. 1,039,278; Sept. 24; Gaz. vol. 182; p. 799.
Hallam, Harry, Leicester, England, assignor to United Shoe Machinery Company, Paterson, N. J. Abrading device. No. 1,030,778; June 25; Sp. p. 6175; Gaz. vol. 179; p. 1044.
Hallam, Harry, Leicester, England, assignor to United Shoe Machinery Company, Paterson, N. J. Abrading device. (Reissue.) No. 13,493; Dec. 10; Gaz. vol. 185; p. 504.
Halland, Alfred S., Buffalo, assignor to Niagara Sprayer Company, Middleport, N. Y. Insecticide composition. No. 1,044,452; Nov. 12; Gaz. vol. 184; p. 520.
Hallaron, George E., Chicago, Ill. Shipping-crate. No. 1,017,539; Feb. 13; Sp. p. 2882; Gaz. vol. 175; p. 486.
Hallaway, Walter E., Mist, Ark. Attachment for plows and cultivators. No. 1,020,282; Mar. 12; Sp. p. 2714; Gaz. vol. 176; p. 460.
Hallbauer, William M., assignor of one-half to E. D. Holthaus, St. Louis, Mo. Storm-window for street-cars, locomotive-cabs, and the like. No. 1,042,671; Oct. 29; Gaz. vol. 183; p. 1145.
Halldow, John, assignor to The Dean Electric Company, Elyria, Ohio. Telephone-receiver. No. 1,033,098; July 23; Gaz. vol. 180; p. 895.
Hallen, Ludwig, Evanston, Ill. Infant's posing-chair. No. 1,025,953; May 7; Sp. p. 1887; Gaz. vol. 178; p. 290.
Hallensleben, Otto, Hanau, Germany. Power-loom for cocoanut matting. No. 1,047,798; Dec. 17; Gaz. vol. 185; p. 767.
Hallensleben, Otto, Hanau, Germany, assignor to New Carpet and Textiles Syndicate Limited, London, England. Machine for printing upon warps. No. 1,042,786; Oct. 29; Gaz. vol. 183; p. 1185.
Haller, Harry, Jr., Ilion, N. Y. Photographic-printing device. No. 1,016,623; Feb. 6; Sp. p. 912; Gaz. vol. 175; p. 136.
Haller, John P., New Orleans, La., assignor to National Enameling & Stamping Company, Baltimore, Md. Stove draft device. No. 1,045,786; Nov. 26; Gaz. vol. 184; p. 1046.
Haller, Stephan. (See Sarason and Haller.)
Hallett, William E., Bucyrus, Ohio. Gas-engine valve. No. 1,038,878; Sept. 17; Gaz. vol. 182; p. 645.
Hallgren, Bror C. I., Pasadena, Cal. Valve-lifting device. No. 1,044,517; Nov. 19; Gaz. vol. 184; p. 573.
Halliday, E. C., *et al.* (See Humphrey, John D., assignor.)
Halliday, George, assignor of one-half to J. D. Armstrong, Tacoma, Wash. Cleaning grain. No. 1,019,148; Mar. 5; Sp. p. 318; Gaz. vol. 176; p. 49.
Halliday, George, assignor of one-third to J. D. Armstrong, Tacoma, Wash., and one-third to C. A. Black, Oakland, Cal. Sieve-bolter. No. 1,038,124; Sept. 10; Gaz. vol. 182; p. 349.
Hallinan, William, Greenville, Ky. Wheel. No. 1,038,501; Sept. 10; Gaz. vol. 182; p. 479.
Halliwell, John J., assignor, by mesne assignments, to R. Hoe and Co., New York, N. Y. Ink-roll-operating mechanism for printing-machines. No. 1,018,758; Feb. 27; Sp. p. 5629; Gaz. vol. 175; p. 973.

Alphabetical list of patentees—Continued.

Hallock, Arthur T., Two Rivers, Wis. Hammock. No. 1,035,962; Aug. 20; Gaz. vol. 181; p. 595.
Hallock, David O., Tacoma, Wash. Bandage-roll cutter. No. 1,031,924; July 9; Gaz. vol. 180; p. 416.
Hallock, Elias I., Babylon, N. Y. Skimmer. No. 1,028,717; June 4; Sp. p. 1397; Gaz. vol. 179; p. 217.
Hallock, Fletcher D., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Rheostat. No. 1,031,787; July 9; Gaz. vol. 180; p. 368.
Halloran, James D., New York, N. Y. Air-supply device for firemen. No. 1,040,311; Oct. 8; Gaz. vol. 183; p. 246.
Halloran, James R., New Britain, Conn. Coin-controlled vending device. No. 1,022,782; Apr. 9; Sp. p. 2213; Gaz. vol. 177; p. 379.
Hallowell, Howard T., assignor to Standard Pressed Steel Company, Philadelphia, Pa. Shaft-collar. No. 1,045,283; Nov. 26; Gaz. vol. 184; p. 869.
Hallowell, William S., *et al.* (See Gibson, George H., assignor.)
Hallsted, John A., Cincinnati, Ohio. Seal. No. 1,025,870; May 7; Sp. p. 1683; Gaz. vol. 178; p. 263.
Hallwood, Henry S., Columbus, Ohio. Car-coupling. No. 1,035,698; Aug. 13; Gaz. vol. 181; p. 468.
Hallwood, Henry S., Columbus, Ohio. Pendulum computing-scale. No. 1,041,997; Oct. 22; Gaz. vol. 183; p. 887.
Halpin, Michael J., New York, assignor to The Englander Spring Bed Company, Brooklyn, N. Y. Folding leg for couch-beds. No. 1,024,197; Apr. 23; Sp. p. 5237; Gaz. vol. 177; p. 917.
Halpin, Thomas P., assignor to Workman Manufacturing Company, Chicago, Ill. Locking device for temporary binders. No. 1,019,149; Mar. 5; Sp. p. 320; Gaz. vol. 176; p. 49.
Halsey, Charles W. (See Northall, William H., assignor.)
Halsey, Edward S., and G. G. Perkins, Lynn, Mass., assignors to United Shoe Machinery Company, Paterson, N. J. Finishing the raw edges of leather. No. 1,047,211; Dec. 17; Gaz. vol. 185; p. 560.
Halsey Electric Generator Company. (See Halsey, Henry, assignor.)
Halsey, Henry, New York, N. Y., assignor to Halsey Electric Generator Company. Electric battery. No. 1,014,146; Jan. 9; Sp. p. 2348; Gaz. vol. 174; p. 393.
Halstead, Allen H., Skidmore, Kans. Corn-planter. No. 1,028,110; June 4; Sp. p. 34; Gaz. vol. 179; p. 9.
Halstead, Arthur F. (See Rogerson, Albert C., assignor.)
Halstead, Charles B., Kansas City, Mo. Animal-throwing device. No. 1,028,352; June 4; Sp. p. 638; Gaz. vol. 179; p. 95.
Halstead, Stephen C. (See Alexander, Jesse, assignor.)
Halstead, Thomas J., Dallas, Tex. Burglar-alarm. No. 1,040,312; Oct. 8; Gaz. vol. 183; p. 246.
Haltenberger, Samuel. (See Kolossváry, Haltenberger, and Berdenich.)
Haltom, Samuel, assignor to The Samuel Haltom Company, Texarkana, Tex. Saw-filing machine. No. 1,018,900; Feb. 27; Sp. p. 5911; Gaz. vol. 175; p. 1020.
Halverson, Joseph O. (See Freeman, Louis W., assignor.)
Halverstadt, Leroy, Leetonia, Ohio. Wrench. No. 1,027,203; May 21; Sp. p. 4704; Gaz. vol. 178; p. 790.
Halvorsen, August E., Philadelphia, Pa. Attachment for looms. No. 1,034,363; July 30; Gaz. vol. 180; p. 1352.
Halvorsen, Birger F., Christiania, Norway. Treating iron ores. No. 1,024,629; Apr. 30; Sp. p. 6249; Gaz. vol. 177; p. 1100.
Halvorsen, Ole G., Trondhjem, Norway. Screw-propeller. No. 1,031,545; July 2; Gaz. vol. 180; p. 242.
Halvorson, Cromwell A. B., Jr., Lynn, Mass., assignor to General Electric Company. Arc-lamp cut-out. No. 1,045,703; Nov. 26; Gaz. vol. 184; p. 1018.
Ham, William E., and A. M. Cook, Mebane, N. C. Loading and unloading device. No. 1,017,290; Feb. 13; Sp. p. 2351; Gaz. vol. 175; p. 400.
Hamachek, Frank, Kewaunee, Wis. Pea huller and separator. No. 1,035,184; Aug. 13; Gaz. vol. 181; p. 292.
Hamacher-Hawkins Manufacturing Company. (See Hamacher, Lee D., assignor.)
Hamacher, Jonathan D., Hiawatha, Kans. Corn-harvester. No. 1,041,070; Oct. 15; Gaz. vol. 183; p. 539.
Hamacher, Lee D., Kansas City, Mo., assignor to Hamacher-Hawkins Manufacturing Company. Loose-leaf book. No. 1,020,948; Mar. 19; Sp. p. 4121; Gaz. vol. 176; p. 719.
Haman, Albert L. (See Hummel, Ernest A., assignor.)
Hamann, Gustav. (See Suess, Walter E., assignor.)
Hamann, Ralph A., Omaha, Nebr. Rectifier. No. 1,014,466; Jan. 9; Sp. p. 3041; Gaz. vol. 174; p. 504.
Hamann, Richard W., assignor to E. J. Feiner, St. Louis, Mo. Boiler-tube cleaner. No. 1,037,245; Sept. 3; Gaz. vol. 182; p. 24.
Hamberger, George J., Newark, N. J. Fire-extinguisher. No. 1,039,933; Oct. 1; Gaz. vol. 183; p. 87.
Hamblin, George N. (See Hamblin, Stephen M. and G. N.)
Hamblin, Stephen M. and G. N., Canton; said G. N. Hamblin assignor of one-half of his right to G. E. Close, Cambridge, Mass. Candy-wrapping machine. No. 1,025,524; May 7; Sp. p. 939; Gaz. vol. 178; p. 145.
Hamblin, Stephen M. and G. N., Canton, assignors to E. L. Toomey, Stoughton, Mass. Means for facilitating the removal of covers of cans and boxes. No. 1,039,934; Oct. 1; Gaz. vol. 183; p. 88.
Hambly, John F., Oleander, Cal. Envelop-moistener. No. 1,040,667; Oct. 8; Gaz. vol. 183; p. 372.
Hambly, William H., Wiarton, Ontario, Canada. Shipwreck-buoy. No. 1,032,207; July 9; Gaz. vol. 180; p. 510.
Hambright, Frank M. (See Harris, Richard G., assignor.)
Hambuechen, Carl. (See Burgess and Hambuechen.)
Hambuechen, Carl. (See Phillips and Hambuechen.)
Hamel, Charles F., assignor to M. Pauken, Toledo, Ohio. Autosled. No. 1,015,019; Jan. 16; Sp. p. 4303; Gaz. vol. 174; p. 724.
Hamel, Louis C., assignor of one-half to W. H. Killen, Appleton, Wis. Windmill-coupling. No. 1,026,352; May 14; Sp. p. 2798; Gaz. vol. 178; p. 464.
Hamersly, Edward H., Richmond, Va. Single-trigger shotgun. No. 1,018,759; Feb. 27; Sp. p. 5631; Gaz. vol. 175; p. 973.
Hamfeldt, George K., Kneuttingen, Germany. Charging-car and other receptacle. No. 1,014,467; Jan. 9; Sp. p. 3044; Gaz. vol. 174; p. 505.
Hamill, George W., Baltimore, Md. Pipe. No. 1,025,623; May 7; Sp. p. 1166; Gaz. vol. 178; p. 179.
Hamill, John R., *et al.* (See Thomas, John W., assignor.)
Hamill, William W., Glasgow, Scotland. Carbureter for internal-combustion engines. No. 1,020,198; Mar. 12; Sp. p. 2545; Gaz. vol. 176; p. 432.
Hamilton, Abram S., Nanaimo, British Columbia, Canada. Portable detonator-magazine. No. 1,026,860; May 21; Sp. p. 3889; Gaz. vol. 178; p. 671.
Hamilton, Abram S., Nanaimo, British Columbia, Canada. Detonator-magazine. No. 1,038,355; Sept. 10; Gaz. vol. 182; p. 427.
Hamilton, Alexander, Edison, Ill. Physical developer. No. 1,047,212; Dec. 17; Gaz. vol. 185; p. 560.
Hamilton, Brace H., Lynn, Mass., assignor to General Electric Company. Oil-guard. No. 1,019,460; Mar. 5; Sp. p. 1051; Gaz. vol. 176; p. 154.
Hamilton, Charles A., New York, N. Y. Flying-machine. No. 1,035,583; Aug. 13; Gaz. vol. 181; p. 430.
Hamilton, Charles A., assignor of one-half to J. Broehl, Pana, Ill. Display-cabinet. No. 1,027,723; May 28; Sp. p. 5748; Gaz. vol. 178; p. 1002.
Hamilton, David, Greensburg, Pa. Burner. No. 1,026,982; May 21; Sp. p. 4189; Gaz. vol. 178; p. 715.
Hamilton, Ernest A., *et al.* (See Hamilton, Walter L., assignor.)
Hamilton, Ezra M., Willow Springs, Cal. Wave-motor. No. 1,025,395; May 7; Sp. p. 643; Gaz. vol. 178; p. 100.
Hamilton, Ezra M., Willow Springs, Cal. Automobile-tire. No. 1,026,803; May 21; Sp. p. 3769; Gaz. vol. 178; p. 652.
Hamilton, Frederick, Providence, R. I. Spectacles. No. 1,044,518; Nov. 19; Gaz. vol. 184; p. 574.
Hamilton, George W., Edgewood Park, Pa., assignor to Westinghouse Electric and Manufacturing Company. Automotoneer. No. 1,036,836; Aug. 27; Gaz. vol. 181; 929.
Hamilton and Hamilton, Jr. (See Fuller, James A., assignor.)
Hamilton, Howard H. (See Bennett, Barrow, assignor.)
Hamilton, Isabelle E., *et al.* (See Hamilton, Walter L., assignor.)
Hamilton, Jacob S., Plattsburg, Mo. Feed-trough. No. 1,044,172; Nov. 12; Gaz. vol. 184; p. 424.
Hamilton, James. (See Day, Alfred, assignor.)
Hamilton, James, Brooklyn, N. Y. Valve-gear for power-hammers. No. 1,046,779; Dec. 10; Gaz. vol. 185; p. 382.
Hamilton, James L. (See Finnell and Hamilton.)
Hamilton, James L., Grand Junction, Colo., assignor to The Hamilton Orchard Heater Company. Orchard-heater. No. 1,018,048; Feb. 20; Sp. p. 4038; Gaz. vol. 175; p. 698.
Hamilton, James L., Grand Junction, Colo. Machine for grading and sorting fruit. No. 1,020,093; Mar. 12; Sp. p. 2311; Gaz. vol. 176; p. 396.
Hamilton, James L., assignor to The Hamilton Orchard Heater Company, Grand Junction, Colo. Orchard-heater. No. 1,045,547; Nov. 26; Gaz. vol. 184; p. 963.
Hamilton, James W., Chicago, Ill. Collapsible suit-hanger. No. 1,040,668; Oct. 8; Gaz. vol. 183; p. 372.
Hamilton, James W., Chicago, Ill. Collapsible coat-hanger. No. 1,040,942; Oct. 8; Gaz. vol. 183; p. 461.
Hamilton, John H., Manchester, assignor to Electromotors Limited, Openshaw, Manchester, and H. W. Kearns & Company Limited, Broadheath, near Manchester, England. Machine-tool. No. 1,023,203; Apr. 16; Sp. p. 3136; Gaz. vol. 177; p. 561.
Hamilton, John R. (See Thompson and Hamilton.)
Hamilton, John R., Yonkers, assignor to Automatic Sprinkler Company of America, New York, N. Y. Fusible link. No. 1,024,725; Apr. 30; Sp. p. 6434; Gaz. vol. 177; p. 1134.
Hamilton, John R., Yonkers, N. Y., assignor to Venturi Alarm Company, Dover, N. J. Sprinkler-alarm apparatus. No. 1,026,439; May 14; Sp. p. 2974; Gaz. vol. 178; p. 492.

Alphabetical list of patentees—Continued.

Hamilton, John W. H., St. George, assignor to American Grondal Company, New York, N. Y. Channel-furnace. No. 1,035,699; Aug. 13; Gaz. vol. 181; p. 468.
Hamilton, Joseph B., San Antonio, Tex. Collar-shaping machine. No. 1,017,291; Feb. 13; Sp. p. 2353; Gaz. vol. 175; p. 400.
Hamilton, Lee, Le Claire, Iowa. Elevator safety device. No. 1,025,871; May 7; Sp. p. 1684; Gaz. vol. 178; p. 263.
Hamilton, Loyd B., Centerville, Iowa. Rasp. No. 1,032,897; July 16; Gaz. vol. 180; p. 789.
Hamilton Manufacturing Company, The. (See Berger, Guido, assignor.)
Hamilton Manufacturing Company, The. (See Suddard, Thomas W., assignor.)
Hamilton Orchard Heater Company, The. (See Hamilton, James L., assignor.)
Hamilton, Philip S., Pittsburgh, Pa. Card and tag holder for cars. No. 1,032,137; July 9; Gaz. vol. 180; p. 485.
Hamilton, Pinckney W., Pittsburgh, Pa. Cooking utensil. No. 1,023,645; Apr. 16; Sp. p. 4012; Gaz. vol. 177; p. 704.
Hamilton, Ralph E., Middlebury township, Shiawassee county, Mich. Window-screen construction. No. 1,020,601; Mar. 19; Sp. p. 3389; Gaz. vol. 176; p. 602.
Hamilton, Richard F., Baltimore, Md. Cap for sash-pulleys. No. 1,029,441; June 11; Sp. p. 2990; Gaz. vol. 179; p. 501.
Hamilton, Robert. (See Abernethy, Robert, assignor.)
Hamilton, Robert, Pensacola, Fla. Cotton-chopper. No. 1,031,546; July 2; Gaz. vol. 180; p. 242.
Hamilton, Robert G., Tryon, N. C. Evaporating-pan. No. 1,014,468; Jan. 9; Sp. p. 3046; Gaz. vol. 174; p. 505.
Hamilton, Robert J., Cairo, Ill. Stoneworking-machine. No. 1,035,785; Aug. 13; Gaz. vol. 181; p. 497.
Hamilton, Robert J., Browning, Mont. Trip-coupling. No 1,038,356; Sept. 10; Gaz. vol. 182; p. 428.
Hamilton, Thomas M. (See Boyd, Albert H., assignor.)
Hamilton, Thomas S., Kansas City, Mo., assignor to The Purified Petroleum Products Company. Purifying hydrocarbon liquids. No. 1,018,971; Feb. 27; Sp. p. 6075; Gaz. vol. 175; p. 1045.
Hamilton, Thomas S., King City, Cal. Hay or grain gathering machine. No. 1,022,733; Apr. 9; Sp. p. 2117; Gaz. vol. 177; p. 363.
Hamilton, Thomas S., King City, Cal. Scarf-holding collar attachment. No. 1,022,734; Apr. 9; Sp. p. 2119; Gaz. vol. 177; p. 363.
Hamilton, Ulysses G., assignor of one-fourth to L. F. Sanguinetti, Peters, Cal. Railway-tie. No. 1,013,655; Jan. 2; Sp. p. 1251; Gaz. vol. 174; p. 196.
Hamilton, Walter L., assignor, by mesne assignments, of three-fifths to I. E. Hamilton, Holyoke, and two-fifths to E. A. Hamilton, Springfield, Mass. Motor-controlling device. No. 1,032,826; July 16; Gaz. vol. 180; p. 766.
Hamilton Watch Company. (See Dudley, William W., assignor.)
Hamilton, William G., assignor of one-fourth to A. B. Bowman, San Diego, Cal. Flying-machine. No. 1,013,840; Jan. 2; Sp. p. 1635; Gaz. vol. 174; p. 261.
Hamilton, William J., Alliance, Nebr. Fly-trap. No. 1,027,602; May 28; Sp. p. 5507; Gaz. vol. 178; p. 963.
Hamilton, William J., Franklin, Pa. Receptacle. No. 1,032,827; July 16; Gaz. vol. 180; p. 766.
Hamley, John G., London, England. Toy or amusement device. No. 1,028,068; May 28; Sp. p. 6536; Gaz. vol. 178; p. 1116.
Hamlin, Charley W. (See Zaerr and Hamlin.)
Hamlin, Orlo J., *et al.* (See Gill, Edwin R., assignor.)
Hamlin, Thomas, *et al.* (See Cabler, Robert L., assignor.)
Hamm, Abraham A. (See Hamm, Abraham G. and A. A.)
Hamm, Abraham G. and A. A., Rosthern, Saskatchewan, Canada. Hair-spring tester. No. 1,029,608; June 18; Sp. p. 3336; Gaz. vol. 179; p. 594.
Hamm, Frank, Wichita, Kans. Draft-equalizer. No. 1,037,618; Sept. 3; Gaz. vol. 182; p. 147.
Hamm, William S., Hubbard Woods, Ill., assignor to The Adams & Westlake Company. Lamp. No. 1,018,187; Feb. 20; Sp. p. 4353; Gaz. vol. 175; p. 747.
Hamm, William S., Hubbard Woods, assignor to The Adams & Westlake Company, Chicago, Ill. Window-sash. No. 1,029,189; June 11; Sp. p. 2426; Gaz. vol. 179; p. 413.
Hamm, William S., Hubbard Woods, Ill., assignor to The Adams & Westlake Company. Signal-lamp. No. 1,039,123; Sept. 24; Gaz. vol. 182; p. 742.
Hamm, William S., Hubbard Woods, and T. A. Legge, Chicago, Ill., assignors to The Adams & Westlake Company. Closet-seat. No. 1,024,568; Apr. 30; Sp. p. 6100; Gaz. vol. 177; p. 1079.
Hamm, William S., Hubbard Woods, and F. A. Schuetz, assignors to The Adams & Westlake Company, Chicago, Ill. Lantern. No. 1,025,624; May 7; Sp. p. 1167; Gaz. vol. 178; p. 179.
Hamm, William S., Hubbard Woods, and F. A. Schuetz, assignors to The Adams & Westlake Company, Chicago, Ill. Lantern. No. 1,025,625; May 7; Sp. p. 1168; Gaz. vol. 178; p. 179.
Hamm, William S., Hubbard Woods, and A. H. Newpher, assignors to The Adams & Westlake Company, Chicago, Ill. Weather-guard for windows. No. 1,029,188; June 11; Sp. p. 2425; Gaz. vol. 179; p. 413.
Hammack, Martin V., Springfield, Mo. Device for creasing and pressing trousers. No. 1,022,671; Apr. 9; Sp. p. 1944; Gaz. vol. 177; p. 338.
Hammel, Riglander & Co. (See Riglander, Moses M., assignor.)
Hammer, Arthur, Berlin, Germany. Ironing-machine. No. 1,032,402; July 16; Gaz. vol. 180; p. 621.
Hammer, Arthur, Berlin, Germany. Ironing-machine. No. 1,032,403; July 16; Gaz. vol. 180; p. 622.
Hammer, Charles, assignor to American Metal Cap Company, Brooklyn, N. Y. Bottle cap or seal. No. 1,027,330; May 21; Sp. p. 4950; Gaz. vol. 178; p. 833.
Hammer, Charles, assignor to American Metal Cap Co., Brooklyn, N. Y. Bottle or jar closure. No. 1,028,718; June 4; Sp. p. 1398; Gaz. vol. 179; p. 217.
Hammer & Co. (See Woodstock, Henry C., assignor.)
Hammer, Conrad. (See Noll, Joseph, assignor.)
Hammer, Edwin L., Rochester, N. Y. Daylight developing-tank for photographic films. No. 1,022,477; Apr. 9; Sp. p. 1527; Gaz. vol. 177; p. 275.
Hammer, Julius. (See Di Giovanni, Gaetano, assignor.)
Hammer, Otto R., Harlan, Iowa. Paper-bag holder. No. 1,014,390; Jan. 9; Sp. p. 2901; Gaz. vol. 174; p. 480.
Hammer, Peter, Marlboro, N. Y. Shoe attachment. No. 1,022,672; Apr. 9; Sp. p. 1945; Gaz. vol. 177; p. 338.
Hämmerle, Gebhard. (See Fessmann and Hämmerle.)
Hammerly, William A., *et al.* (See Conkell, Elias W., assignor.)
Hammerstein, Arthur, New York, N. Y. Timing device. No. 1,014,703; Jan. 16; Sp. p. 3589; Gaz. vol. 174; p. 614.
Hammett, Gather C., Corning, Ark. Rail-fastening for metallic ties. No. 1,032,059; July 9; Gaz. vol. 180; p. 460.
Hammetter, August H. (See Pfefferkorn, Schloerb, and Hammetter.)
Hammock, Robert E., assignor of one-sixth to W. M. Pegg, one-sixth to M. B. Donaghey, and one-sixth to M. P. Donaghey, Allen, Okla. Rail-fastener. No. 1,046,586; Dec. 10; Gaz. vol. 185; p. 313.
Hammond, David G., Whitinsville, Mass. Folding sled. No. 1,040,193; Oct. 1; Gaz. vol. 183; p. 174.
Hammond, Edwin, Crescent Mills, Cal. Stovepipe-joint No. 1,038,357; Sept. 10; Gaz. vol. 182; p. 428.
Hammond, Ernest S., Valley Junction, Iowa. Cooler for hot boxes for railway-cars. No. 1,025,947; May 7; Sp. p. 1876; Gaz. vol. 178; p. 288.
Hammond, Francesco. (See Mason and Hammond.)
Hammond, Frank H., New York, N. Y. Razor-sharpener. No. 1,034,616; Aug. 6; Gaz. vol. 181; p. 70.
Hammond, George O., Watertown, N. Y., assignor to The New York Air Brake Company. Pressure-retaining valve. No. 1,026,311; May 14; Sp. p. 2689; Gaz. vol. 178; p. 450.
Hammond, George O., and J. A. Barnes, Watertown, N. Y., assignors to The New York Air Brake Company. Pressure-retaining device. No. 1,026,310; May 14; Sp. p. 2687; Gaz. vol. 178; p. 449.
Hammond, Grant, Hartford, Conn., assignor to R. B. Upham, New York, N. Y. Gun. No. 1,044,780; Nov. 19; Gaz. vol. 184; p. 667.
Hammond Iron Works. (See Hammond, William, assignor.)
Hammond Iron Works. (See Maclachlan, Angus, assignor.)
Hammond, Irving L., Lewiston, Me. Valveless-tank siphon. No. 1,013,876; Jan. 9; Sp. p. 1763; Gaz. vol. 174; p. 302.
Hammond, Isaac B., Portland, Oreg. Changeable-speed friction transmission mechanism. No. 1,028,019; May 28; Sp. p. 6418; Gaz. vol. 178; p. 1101.
Hammond, James, assignor of one-third to J. Williams, Moundsville, W. Va. Envelop-moistening device. No. 1,027,204; May 21; Sp. p. 4705; Gaz. vol. 178; p. 790.
Hammond, James B., assignor to The Hammond Typewriter Co., New York, N. Y. Tabulator for typewriters. No. 1,041,071; Oct. 15; Gaz. vol. 183; p. 539.
Hammond, John H., Jr., Gloucester, Mass. Naval-wargame apparatus. No. 1,023,375; Apr. 16; Sp. p. 3464; Gaz. vol. 177; p. 618.
Hammond, John W., Taunton, and J. F. Donahue, Boston, assignors to Mead Morrison Mfg. Co., Cambridge, Mass. Hoisting apparatus. No. 1,039,733; Oct. 1; Gaz. vol. 183; p. 21.
Hammond-Knowlton, Clarence A., New York, N. Y. Threadometer. No. 1,024,332; Apr. 23; Sp. p. 5499; Gaz. vol. 177; p. 963.
Hammond, Laurens, Evanston, Ill. Barometer. No. 1,015,886; Jan. 30; Sp. p. 6153; Gaz. vol. 174; p. 1072.
Hammond, Robert A., Sandwich, and S. E. Taft, South Framingham, Mass.; said Taft assignor to Massachusetts Belting Company. Tension and take-up mechanism for filling-carriers of looms. No. 1,016,494; Feb. 6; Sp. p. 582; Gaz. vol. 175; p. 90.

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Hammond, Robert O., Amityville, assignor to Tywacana Farms Poultry Company, Farmingdale, Long Island, N. Y. Chicken-coop. No. 1,049,228; Dec. 31; Gaz. vol. 185; p. 1321.
Hammond, Theodore A. (See Hammond, William P. and T. A.)
Hammond, Thomas W., Jr., Tacoma, Wash. Molding-machine. No. 1,048,689; Dec. 31; Gaz. vol. 185; p. 1137.
Hammond Typewriter Co., The. (See Banta, William, assignor.)
Hammond Typewriter Co., The. (See Hammond, James B., assignor.)
Hammond Typewriter Co., The. (See Spurgin, Richard A., assignor.)
Hammond Typewriter Company. (See Ruffin, John A., assignor.)
Hammond, W. D. (See Brintnall, Thomas M., assignor.)
Hammond, W. D. (See McConnell, Ernest, assignor.)
Hammond, Wilberforce B., Boston, Mass. Automatic sprinkler-head. No. 1,030,299; June 25; Sp. p. 4867; Gaz. vol. 179; p. 871.
Hammond, Wilberforce B., Boston, Mass., assignor to General Fire Extinguisher Company, New York, N. Y. Valve-regulating mechanism. No. 1,041,272; Oct. 15; Gaz. vol. 183; p. 607.
Hammond, Wilberforce B., Boston, Mass., assignor to General Fire Extinguisher Company, New York, N. Y. Valve-regulating mechanism. No. 1,041,273; Oct. 15; Gaz. vol. 183; p. 608.
Hammond, William, assignor to Hammond Iron Works, Warren, Pa. Pulp-agitator. No. 1,026,578; May 14; Sp. p. 3250; Gaz. vol. 178; p. 537.
Hammond, William P., Rockland, Mass. Hammock-supporter. No. 1,029,609; June 18; Sp. p. 3337; Gaz. vol. 179; p. 594.
Hammond, William P., Passaic, N. J. Connector. No. 1,044,885; Nov. 19; Gaz. vol. 184; p. 702.
Hammond, William P., Passaic, N. J., assignor to American Ever Ready Company. Connector. No. 1,039,279; Sept. 24; Gaz. vol. 182; p. 799.
Hammond, William P., Rockport, assignor to Triumph Couch Bed Co., Boston, Mass. Couch-bed. No. 1,038,879; Sept. 17; Gaz. vol. 182; p. 646.
Hammond, William P., New York, N. Y., and T. A. Hammond, Passaic, N. J. Valve for pneumatic tires. No. 1,035,185; Aug. 13; Gaz. vol. 181; p. 293.
Hammons, Theodore J., Bronson, Kans. Frame for Kafir-corn headers. No. 1,033,691; July 23; Gaz. vol. 180; p. 1091.
Hampden Watch Company, The. (See Corey, Varian S., assignor.)
Hampson, John, Reissing, Pa. Packing-gland. No. 1,047,799; Dec. 17; Gaz. vol. 185; p. 768.
Hampson, John, Chilworth, assignor to Third Hand Patents Limited, London, England. Magnifying-glass. No. 1,025,057; Apr. 30; Sp. p. 7099; Gaz. vol. 177; p. 1248.
Hampson, John, Chilworth, assignor to Third Hand Patents Limited, London, England. Fastening device. No. 1,025,058; Apr. 30; Sp. p. 7101; Gaz. vol. 177; p. 1248.
Hampson, John, assignor to Third Hand Patents Limited, London, England. Insect-destroying device. No. 1,032,208; July 9; Gaz. vol. 180; p. 510.
Hampson, Joseph. (See Ricketson and Hampson.)
Hampson, Julian E. (See Weber and Hampson.)
Hampton, Charles W. (See Hampton, William F. and C. W.)
Hampton, Frank H. (See Smith and Hampton.)
Hampton, William F. and C. W., assignors of one-third to R. A. Haggard, Waynesboro, Tenn. Rail. No. 1,025,913; May 7; Sp. p. 1801; Gaz. vol. 178; p. 277.
Hampton, William L., Stowe, Pa. Saw-set. No. 1,029,991; June 18; Sp. p. 4188; Gaz. vol. 179; p. 726.
Hamrick, O. D., *et al.* (See Davenport, Charles H., assignor.)
Hamrick, Porter S., Wausau, Wis. Force-feed reservoir. No. 1,020,602; Mar. 19; Sp. p. 3391; Gaz. vol. 176; p. 602.
Hamrick, Porter S., Wausau, Wis. Cock and faucet. No. 1,027,474; May 28; Sp. p. 5244; Gaz. vol. 178; p. 920.
Hamrick, Porter S., Wausaw, Wis. Combined basin-faucet and drinking-fountain. No. 1,044,648; Nov. 19; Gaz. vol. 184; p. 619.
Hanaman, Franz. (See Just and Hanaman.)
Hanaman, Franz, Budapest, Austria-Hungary, assignor to General Electric Company. Connecting filaments and feed-wires for electric incandescent lamps. No. 1,031,710; July 9; Gaz. vol. 180; p. 341.
Hanaman, Franz, Budapest, Austria-Hungary, assignor to General Electric Company. Connection between metallic filaments and feed-wires of electric incandescent lamps. No. 1,046,780; Dec. 10; Gaz. vol. 185; p. 383.
Hance, Joseph M., assignor to The Stanley Rule & Level Company, New Britain, Conn. Tool-sharpening holder. No. 1,047,126; Dec. 10; Gaz. vol. 185; p. 499.
Hanchett, George T., Hackensack, N. J. Mixer for gaseous fuel. No. 1,017,750; Feb. 20; Sp. p. 3314; Gaz. vol. 175; p. 593.
Hanchett, Harry N., and T. A. Hall, Jackson, Mich. Nut-lock. No. 1,033,581; July 23; Gaz. vol. 180; p. 1057.
Hanchett Swage Works. (See Hedstrom, John P., assignor.)
Hancock, Adelbert E., North Chillicothe, assignor of one-half to W. B. Bragg, Chicago, Ill. Rerailing device. No. 1,035,875; Aug. 20; Gaz. vol. 181; p. 566.
Hancock, Harry W., and C. H. Jarvis, Charlotte, Mich.; said Jarvis assignor to said Hancock. Tank-valve. No. 1,047,800; Dec. 17; Gaz. vol. 185; p. 768.
Hancock, Henry, Baraboo, Wis. Tamping-machine. No. 1,040,194; Oct. 1; Gaz. vol. 183; p. 175.
Hancock, Jesse C. (See Madden, Thomas E., assignor.)
Hancock, John A. (See Pitts and Hancock.)
Hancock, Joseph H., Taylor, Ariz. Automatic gate for railways. No. 1,031,547; July 2; Gaz. vol. 180; p. 243.
Hancock, Joseph J., Pitts, Ga. Track-fastener. No. 1,048,959; Dec. 31; Gaz. vol. 185; p. 1229.
Hancock, Ralph, San Francisco, Cal. Centrifugal fan. No. 1,031,180; July 2; Gaz. vol. 180; p. 118.
Hand, Daniel, Newark, N. J., assignor to General Electric Company. Incandescent filament. No. 1,013,599; Jan. 2; Sp. p. 1099; Gaz. vol. 174; p. 177.
Hand, Enos A., Chicago, Ill. Slicing-machine. No. 1,014,595; Jan. 9; Sp. p. 3274; Gaz. vol. 174; p. 546.
Hand, Ernest A., assignor to American Slicing Machine Company, Chicago, Ill. Meat-holder. No. 1,048,829; Dec. 31; Gaz. vol. 185; p. 1185.
Handel, Philip J., Meriden, Conn. Light-fixture. No. 1,040,943; Oct. 8; Gaz. vol. 183; p. 461.
Handlan, A. H., Jr. (See Cairncross, Robert L., assignor.)
Handlan, Alexander H., Jr., St. Louis, Mo. Signal-lamp. No. 1,016,624; Feb. 6; Sp. p. 914; Gaz. vol. 175; p. 136.
Handlan, Alexander H., Jr., St. Louis, Mo. Signal-lamp. No. 1,042,787; Oct. 29; Gaz. vol. 183; p. 1185.
Handlan-Buck Manufacturing Company. (See Rolfes, George H., assignor.)
Handloser, Thomas V., and J. C. Dilworth, assignors to Dilworth, Porter & Company, Limited, Pittsburgh, Pa. Machine for pointing tie-plate claws. No. 1,019,634; Mar. 5; Sp. p. 1388; Gaz. vol. 176; p. 212.
Handloser, Thomas V., and J. C. Dilworth, assignors to Dilworth, Porter & Company, Limited, Pittsburgh, Pa. Pointing tie-plate claws. No. 1,021,520; Mar. 26; Sp. p. 5375; Gaz. vol. 176; p. 967.
Handy, Annie W., administratrix. (See Handy, Milton.)
Handy, Burt A., South Bend, Ind., assignor, by mesne assignments, to Four In One Manufacturing Co. Extension step-ladder. No. 1,040,313; Oct. 8; Gaz. vol. 183; p. 246.
Handy Jack Manufacturing Company. (See Conner, George F., assignor.)
Handy, Levin G., Rutherford, N. J., assignor to W. C. Dickerman, New York, N. Y. Wheel. No. 1,013,994; Jan. 9; Sp. p. 2023; Gaz. vol. 174; p. 342.
Handy, Levin G., Rutherford, N. J., assignor to W. C. Dickerman, New York, N. Y. Wheel. No. 1,013,995; Jan. 9; Sp. p. 2027; Gaz. vol. 174; p. 342.
Handy, Levin G., Rutherford, N. J., assignor to W. C. Dickerman, New York, N. Y. Wheel. No. 1,013,996; Jan. 9; Sp. p. 2030; Gaz. vol. 174; p. 342.
Handy, Levin G., Rutherford, N. J., assignor to W. C. Dickerman, New York, N. Y. Wheel. No. 1,013,997; Jan. 9; Sp. p. 2033; Gaz. vol. 174; p. 343.
Handy, Levin G., Rutherford, N. J., assignor to W. C. Dickerman, New York, N. Y. Wheel. No. 1,013,998; Jan. 9; Sp. p. 2035; Gaz. vol. 174; p. 343.
Handy, Levin G., Rutherford, N. J., assignor to W. C. Dickerman, New York, N. Y. Wheel. No. 1,013,999; Jan. 9; Sp. p. 2039; Gaz. vol. 174; p. 343.
Handy, Levin G., Rutherford, N. J., assignor to F. H. Gibbs, New York, N. Y. Flush car-door. No. 1,024,893; Apr. 30; Sp. p. 6781; Gaz. vol. 177; p. 1193.
Handy, Levin G., Rutherford, N. J., assignor to F. H. Gibbs, New York, N. Y. Car-door-operating device. No. 1,031,925; July 9; Gaz. vol. 180; p. 416.
Handy, Milton, deceased, Worcester, Mass.; A. W. Handy, administratrix. Rubber vehicle-spring. No. 1,029,190; June 11; Sp. p. 2427; Gaz. vol. 179; p. 413.
Hane, William L., Ocala, Fla. Combination tool-holder. No. 1,032,898; July 16; Gaz. vol. 180; p. 790.
Hänel, Curt, Südende, near Berlin, Germany. Vending apparatus. No. 1,034,791; Aug. 6; Gaz. vol. 181; p. 131.
Hanel, Frank A., Los Angeles, Cal. Baker's peel. No. 1,026,034; May 14; Sp. p. 2069; Gaz. vol. 178; p. 354.
Haney, Edwin H., Stockton, Cal. Clutch. No. 1,047,801; Dec. 17; Gaz. vol. 185; p. 768.
Haney, Edwin H., French Camp, assignor to Haney Fire Apparatus Co., Stockton, Cal. Fire-escape. No. 1,027,724; May 28; Sp. p. 5750; Gaz. vol. 178; p. 1002.
Haney, Edwin H., assignor to Haney Fire Apparatus Company, Stockton, Cal. Fire-fighting elevator. No. 1,030,468; June 25; Sp. p. 5245; Gaz. vol. 179; p. 933.
Haney, Edwin H., assignor of one-fourth to A. McCormick and H. Jacoby, Stockton, Cal. Automobile-pump. No. 1,040,980; Oct. 8; Gaz. vol. 183; p. 475.
Haney Fire Apparatus Co. (See Haney, Edwin H., assignor.)
Hanford, A. J. (See Christianson, Hans P., assignor.)

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Hanford, George S., Cleveland, Ohio, assignor of one-half to B. F. Pettit, Fort Wayne, Ind. Liquid measuring and delivery device. No. 1,046,781; Dec. 10; Gaz. vol. 185; p. 383.
Hanford, Melancthon, and D. L. Taylor, Malden, Mass.; said Hanford assignor to said Taylor. Resilient tire. No. 1,018,049; Feb. 20; Sp. p. 4039; Gaz. vol. 175; p. 698.
Hanford, Orrin A., Terre Haute, Ind. Automatic bottle-stopper. No. 1,048,960; Dec. 31; Gaz. vol. 185; p. 1230.
Hanhart, Louis J., assignor to J. A. Fay & Egan Company, Cincinnati, Ohio. Sawmill set-works. No. 1,024,775; Apr. 30; Sp. p. 6544; Gaz. vol. 177; p. 1152.
Hanhart, Louis J., assignor to J. A. Fay & Egan Company, Cincinnati, Ohio. Band sawing-machine. No. 1,037,900; Sept. 10; Gaz. vol. 182; p. 276.
Hanington, Charles F., Roselle Park, assignor to Concealed Transom Lift Company, Montclair, N. J. Transom-operator. No. 1,046,587; Dec. 10; Gaz. vol. 185; p. 314.
Hanisch, Paul, Cologne, and J. Rosemeyer, Cologne-Lindenthal, Germany. Arc-lamp. No. 1,023,424; Apr. 16; Sp. p. 3563; Gaz. vol. 177; p. 634.
Hank, Basil O., Los Angeles, Cal. Fly-shield for screen-doors. No. 1,031,548; July 2; Gaz. vol. 180; p. 243.
Hankison, Lewis E., and W. E. Stumm, Connellsville, Pa. Device for steam-boilers. No. 1,021,597; Mar. 26; Sp. p. 5523; Gaz. vol. 176; p. 991.
Hanley, Edward M., Rochester, N. Y. Sign. No. 1,034,442; Aug. 6; Gaz. vol. 181; p. 15.
Hanley, George E., Oakland, Cal. Rotary gas-engine. No. 1,048,308; Dec. 24; Gaz. vol. 185; p. 966.
Hanley, John W., New York, N. Y. Game. No. 1,016,142; Jan. 30; Sp. p. 6688; Gaz. vol. 174; p. 1162.
Hanlon, John J., *et al.* (See Merkel, Lewis W., assignor.)
Hanlon, William, Cohasset, Mass. Theatrical illusion apparatus. No. 1,035,435; Aug. 13; Gaz. vol. 181; p. 380.
Hanna, Albert H. (See Hanna, John and A. H.)
Hanna, Cyrus T., Philadelphia, Pa. Process of and apparatus for distilling. No. 1,029,363; June 11; Sp. p. 2813; Gaz. vol. 179; p. 474.
Hanna, Cyrus T., Philadelphia, Pa. Means for preventing the charring of certain portions of whisky-barrels. No. 1,033,692; July 23; Gaz. vol. 180; p. 1092.
Hanna, David J., Fishkill-on-the-Hudson, N. Y. Dough-working apparatus. No. 1,028,820; June 4; Sp. p. 1614; Gaz. vol. 179; p. 252.
Hanna, David J., Fishkill-on-the-Hudson, N. Y. Facilitating the fermentation of dough. No. 1,036,490; Aug. 20; Gaz. vol. 181; p. 780.
Hanna, Gustav H. (See Watkins, Evan, assignor.)
Hanna, Howard M., Jr., H. E. Wetherbee, and R. F. Grant, Cleveland, Ohio. Spring-wheel. No. 1,032,001; July 9; Gaz. vol. 180; p. 440.
Hanna, John and A. H., Troy, assignors to J. P. Randerson, Albany, N. Y. Automobile-bumper. No. 1,043,316; Nov. 5; vol. 184; p. 97.
Hanna, John T., Algona, Iowa. Gearing. No. 1,044,781; Nov. 19; Gaz. vol. 184; p. 668.
Hanna, Max R., Schenectady, N. Y., assignor to General Electric Company. Motor-control system. No. 1,019,461; Mar. 5; Sp. p. 1052; Gaz. vol. 176; p. 154.
Hanna, Max R., Schenectady, N. Y., assignor to General Electric Company. Voltage transformation. No. 1,026,391; May 14; Sp. p. 2876; Gaz. vol. 178; p. 477.
Hannaford, Alfred, Chicago, Ill. Carcass-dehairing mechanism. No. 1,016,495; Feb. 6; Sp. p. 584; Gaz. vol. 175; p. 91.
Hannam, William H., Sydney, New South Wales, Australia. Metal-slat Venetian blind. No. 1,022,415; Apr. 9; Sp. p. 1379; Gaz. vol. 177; p. 253.
Hannam, William H., and W. E. Murray, assignors to Western Sugar Refining Company, San Francisco, Cal. Sugar-drier. No. 1,019,958; Mar. 12; Sp. p. 2035; Gaz. vol. 176; p. 352.
Hannam, William H., and W. E. Murray, assignors to Western Sugar Refining Company, San Francisco, Cal. Sugar-drying machine. No. 1,019,959; Mar. 12; Sp. p. 2037; Gaz. vol. 176; p. 352.
Hannam, William H., and W. E. Murray, assignors to Western Sugar Refining Company, San Francisco, Cal. Apparatus for drying sugar. No. 1,024,073; Apr. 23; Sp. p. 4933; Gaz. vol. 177; p. 874.
Hannegan, Thomas P., Clear Lake, Wis. Pump-operating mechanism. No. 1,039,389; Sept. 24; Gaz. vol. 182; p. 837.
Hanner, Allen C. (See McCollum and Hanner.)
Hannerty, James J., assignor, by mesne assignments, to C. T. Brown, Chicago, Ill. Easel. No. 1,038,126; Sept. 10; Gaz. vol. 182; p. 350.
Hannibal, Arnt C., Chicago, Ill. Fusible link for automatic sprinklers. No. 1,026,440; May 14; Sp. p. 2979; Gaz. vol. 178; p. 493.
Hannon, John M., Springfield, Mass. Machine for making sand molds. No. 1,041,274; Oct. 15; Gaz. vol. 183; p. 608.
Hannon, Michael A., Boston, Mass. Clip for corner-beads. No. 1,019,462; Mar. 5; Sp. p. 1055; Gaz. vol. 176; p. 155.
Hannover, Harald I., Copenhagen, Denmark. Producing so-called porous metals. No. 1,042,111; Oct. 22; Gaz. vol. 183; p. 925.
Hannum, Helen L., *et al.*, administrators. (See Hannum, Ralph C. and H. A.)
Hannum, Henry A. (See Hannum, Ralph C. and H. A.)
Hannum, Ralph C., Syracuse, and H. A. Hannum, deceased, Cazenovia, N. Y.; H. L. Hannum and L. B. Tillotson administrators. Emergency-exit-door lock. No. 1,039,734; Oct. 1; Gaz. vol. 183; p. 22.
Hano, Philip, New York, N. Y. Manifold billing device. No. 1,044,649; Nov. 19; Gaz. vol. 184; p. 620.
Hanrahan, Francis J., Rupert, Pa. Lever mechanism. No. 1,031,440; July 2; Gaz. vol. 180; p. 207.
Hanrahan, John E., Baltimore, Md., assignor to The Chesapeake Addressing Company. Type-mold. No. 1,015,020; Jan. 16; Sp. p. 4304; Gaz. vol. 174; p. 724.
Hansbrough, George W., San Francisco, Cal. Building construction. No. 1,031,926; July 9; Gaz. vol. 180; p. 416.
Hanschke, Gottfried. (See Graul and Hanschke.)
Hansel, Alois, Lichtenberg, Germany. Fire-escape. No. 1,015,560; Jan. 23; Sp. p. 5449; Gaz. vol. 174; p. 933.
Hansel, Karl, Vienna, Austria-Hungary. Electric despatch system. No. 1,046,782; Dec. 10; Gaz. vol. 185; p. 384.
Hansell, Marcus E., Anamosa, Iowa. Furnace-grate. No. 1,045,704; Nov. 26; Gaz. vol. 184; p. 1018.
Hansell, Nils V., Bloomfield, N. J., assignor to American Grondal Company, New York, N. Y. Channel-furnace. No. 1,043,695; Nov. 5; Gaz. vol. 184; p. 229.
Hansen, Anders. (See Neble and Hansen.)
Hansen, August J., Walnut, Iowa. Road-grader. No. 1,027,725; May 28; Sp. p. 5752; Gaz. vol. 178; p. 1002.
Hansen, Charles A., Schenectady, N. Y., assignor to General Electric Company. Carbon electrode. No. 1,019,463; Mar. 5; Sp. p. 1057; Gaz. vol. 176; p. 155.
Hansen, Charles A., Schenectady, N. Y., assignor to General Electric Company. Incandescent-lamp filament. No. 1,026,392; May 14; Sp. p. 2878; Gaz. vol. 178; p. 477.
Hansen, Charles A., Schenectady, N. Y., assignor to General Electric Company. Carbon article. No. 1,037,901; Sept. 10; Gaz. vol. 182; p. 276.
Hansen, Charles A., Schenectady, N. Y., assignor to General Electric Company. Production of alloys. No. 1,041,072; Oct. 15; Gaz. vol. 183; p. 540.
Hansen, Charles C., Easton, Pa., assignor to Ingersoll-Rand Company, New York, N. Y. Rotation device for rock-drills. No. 1,023,517; Apr. 16; Sp. p. 3756; Gaz. vol. 177; p. 664.
Hansen, Charles C., Easton, Pa., assignor to Ingersoll-Rand Company, New York, N. Y. Rotation device for hammer-drills. No. 1,023,518; Apr. 16; Sp. p. 3757; Gaz. vol. 177; p. 664.
Hansen, Charles F., Port Ludlow, Wash. Stamp-affixing device. No. 1,033,069; July 16; Gaz. vol. 180; p. 847.
Hansen, Charles J. N. (See Percival, Herbert E., assignor.)
Hansen, Charles W., Marathon, Fla. Railway construction. No. 1,042,221; Oct. 22; Gaz. vol. 183; p. 961.
Hansen, Christian, Chicago, Ill. Potato-planter. No. 1,015,177; Jan. 16; Sp. p. 4602; Gaz. vol. 174; p. 776.
Hansen, Christian P. (See Hansen, Emil S. and C. P.)
Hansen, Ebbe J., Harlan, Iowa. Velocipede. No. 1,040,669; Oct. 8; Gaz. vol. 183; p. 372.
Hansen, Eduard D., Hamburg, Germany, and G. G. F. C. Winkler, Odense, Denmark, assignors to Bergedorfer Eisenwerk Aktiengesellschaft, Sande, near Bergedorf, Germany. Centrifugal froth-suppressor. No. 1,031,441; July 2; Gaz. vol. 180; p. 207.
Hansen, Emil S. and C. P., Bella Vista, Cal. Post-driver. No. 1,041,073; Oct. 15; Gaz. vol. 183; p. 540.
Hansen, Frederico, Buenos Aires, Argentina, assignor, by mesne assignments, to Avery Company. Feeding mechanism for threshing-machines. No. 1,026,261; May 14; Sp. p. 2581; Gaz. vol. 178; p. 432.
Hansen, Harold E., assignor to Standard Fibre Company, Somerville, Mass. Collapsible mandrel. No. 1,040,536; Oct. 8; Gaz. vol. 183; p. 322.
Hansen, Harvey F. (See Baker and Hansen.)
Hansen, Johan F., Copenhagen, Denmark. Apparatus for shuffling playing-cards. No. 1,043,925; Nov. 12; Gaz. vol. 184; p. 340.
Hansen, John M., Pittsburgh, Pa. Dies for forging railway-axles. No. 1,041,998; Oct. 22; Gaz. vol. 183; p. 887.
Hansen, John M., Pittsburgh, Pa. Manufacture of railway-axles. No. 1,041,999; Oct. 22; Gaz. vol. 183; p. 888.
Hansen, John S., Brockton, Mass., assignor to O. A. Miller Treeing Machine Company, Portland, Me. Electrically-heated tool. No. 1,020,603; Mar. 19; Sp. p. 3393; Gaz. vol. 176; p. 602.
Hansen, John S., Brockton, Mass., assignor to O. A. Miller Treeing Machine Company, Portland, Me. Electrically-heated tool. No. 1,021,097; Mar. 26; Sp. p. 4433; Gaz. vol. 176; p. 821.

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Hansen, John S., Medford, Mass., assignor to O. A. Miller Treeing Machine Company, Portland, Me. Treeing-machine. No. 1,030,727; June 25; Sp. p. 6018; Gaz. vol. 179; p. 1026.
Hansen, John S., Medford, assignor to O. A. Miller Treeing Machine Company, Brockton, Mass. Treeing-machine. No. 1,030,810; June 25; Sp. p. 6256; Gaz. vol. 179; p. 1056.
Hansen, Julius, Texas City, Tex. Wax-press. No. 1,023,844; Apr. 23; Sp. p. 4430; Gaz. vol. 177; p. 796.
Hansen, Julius F. (See Klipfel and Hansen.)
Hansen, Karl H., Pittsburgh, Pa., assignor to Orenstein-Arthur Koppell Co. Door mechanism for side-dump cars. No. 1,031,067; July 2; Gaz. vol. 180; p. 78.
Hansen, Karl H., Pittsburgh, Pa., assignor to Orenstein-Arthur Koppel Co. Car-dumping mechanism. No. 1,040,670; Oct. 8; Gaz. vol. 183; p. 373.
Hansen, Lewis A. (See Petri, John, assignor.)
Hansen, Louis, Omaha, Nebr. Combined screen and storm door. No. 1,022,547; Apr. 9; Sp. p. 1671; Gaz. vol. 177; p. 297.
Hansen, Niels M., assignor to The De Vilbiss Manufacturing Company, Toledo, Ohio. Air-brush. No. 1,016,143; Jan. 30; Sp. p. 6691; Gaz. vol. 174; p. 1163.
Hansen, Niels M., assignor to The De Vilbiss Manufacturing Company, Toledo, Ohio. Air-brush nozzle. No. 1,016,144; Jan. 30; Sp. p. 6692; Gaz. vol. 174; p. 1163.
Hansen, Ole E., Brooklyn, N. Y. Mooring device. No. 1,038,746; Sept. 17; Gaz. vol. 182; p. 600.
Hansen, Otto E., Perth Amboy, N. J. Gas-log. No. 1,017,751; Feb. 20; Sp. p. 3315; Gaz. vol. 175; p. 593
Hansen, Peter F., Quasqueton, Iowa. Attachment for planters. No. 1,028,353; June 4; Sp. p. 640; Gaz. vol. 179; p. 96.
Hansen, William A., San Francisco, Cal. Gas-engine-starting device. No. 1,027,649; May 28; Sp. p. 5600; Gaz. vol. 178; p. 978.
Hansen, William C. T., Seattle, Wash. Trunk. No. 1,038,880; Sept. 17; Gaz. vol. 182; p. 646.
Hansmann Manufacturing Company. (See Hansmann, Paul, assignor.)
Hansmann, Paul, Long Prairie, Minn. Adjustable tongue. No. 1,039,051; Sept. 17; Gaz. vol. 182; p. 700.
Hansmann, Paul, Long Prairie, Minn. Adjustable tongue. No. 1,049,297; Dec. 31; Gaz. vol. 185; p. 1345.
Hansmann, Paul, assignor to Hansmann Manufacturing Company, Long Prairie, Minn. Adjustable steering mechanism. No. 1,026,312; May 14; Sp. p. 2691; Gaz. vol. 178; p. 450.
Hansmann, Paul, assignor to Hansmann Manufacturing Company, Long Prairie, Minn. Coupling means for vehicles. No. 1,049,082; Dec. 31; Gaz. vol. 185; p. 1272.
Hanson, Adolf K., assignor to The Machinery & Specialty Company, Milwaukee, Wis. Honing and stropping device. No. 1,027,045; May 21; Sp. p. 4343; Gaz. vol. 178; p. 737.
Hanson, Albertus E., Mason City, Iowa. Ditching-machine and tile-distributer. No. 1,022,843; Apr. 9; Sp. p. 2338; Gaz. vol. 177; p. 399.
Hanson, Albertus E., Mason City, Iowa. Window-sash lock. No. 1,023,014; Apr. 9; Sp. p. 2681; Gaz. vol. 177; p. 457.
Hanson, Albertus E., Mason City, Iowa. Ditching-machine and tile-distributer. No. 1,026,672; May 21; Sp. p. 3478; Gaz. vol. 178; p. 607.
Hanson, Albertus E., Mason City, Iowa. Ditching-machine. No. 1,048,408; Dec. 24; Gaz. vol. 185; p. 999.
Hanson, Anders, Butler, S. D. Explosive-engine. No. 1,020,819; Mar. 19; Sp. p. 3868; Gaz. vol. 176; p. 676.
Hanson, Bartin N., Chicago, Ill. Folding organ. No. 1,027,475; May 28; Sp. p. 5245; Gaz. vol. 178; p. 920.
Hanson, Bengt M. W., assignor to Pratt & Whitney Company, Hartford, Conn. Rifling-machine. No. 1,019,892; Mar. 12; Sp. p. 1903; Gaz. vol. 176; p. 331.
Hanson, Bengt M. W., assignor to Pratt & Whitney Company, Hartford, Conn. Work-carrying means. No. 1,042,000; Oct. 22; Gaz. vol. 183; p. 888.
Hanson, Bengt M. W., and E. Henrikson, assignors to Pratt & Whitney Company, Hartford, Conn. Turret indexing and locking mechanism. No. 1,042,001; Oct. 22; Gaz. vol. 183; p. 888.
Hanson, Bennie P., and N. I. Nelson, Elmore, Minn. Tongue construction. No. 1,013,877; Jan. 9; Sp. p. 1764; Gaz. vol. 174; p. 302.
Hanson, Bennie P., assignor of one-half to C. D. Williams, Elmore, Minn. Spring-wheel. No. 1,036,097; Aug. 20; Gaz. vol. 181; p. 642.
Hanson, Charles V., Fall City, Wash. Vehicle loading appliance. No. 1,039,935; Oct. 1; Gaz. vol. 183; p. 88.
Hanson, Erik E., San Francisco, Cal. Foldable umbrella. No. 1,036,226; Aug. 20; Gaz. vol. 181; p. 690.
Hanson, Eugene I. (See Haas, William, assignor.)
Hanson, Frederick C., Omaha, Nebr. Water-softening apparatus. No. 1,035,436; Aug. 13; Gaz. vol. 181; p. 381.
Hanson, Freeman, Hollis Center, assignor of one-half to L. L. Clark, Dayton, Me. Rotary harrow. No. 1,034,364; July 30; Gaz. vol. 180; p. 1353.
Hanson, Haaken P., Albert Lea, Minn. Safety snap-hook. No. 1,022,940; Apr. 9; Sp. p. 2553; Gaz. vol. 177; p. 433.
Hanson, Hans C., Albert Lea, Minn. Self-heating sad-iron. No. 1,043,421; Nov. 5; Gaz. vol. 184; p. 134.
Hanson, Hans J., Alice, N. D. Shock and loose-grain loader. No. 1,047,213; Dec. 17; Gaz. vol. 185; p. 560.
Hanson, Hans C., assignor to American Gas Machine Company, Albert Lea, Minn. Gasolene-generator. No. 1,027,650; May 28; Sp. p. 5602; Gaz. vol. 178; p. 978.
Hanson, Hans P., Milan, Minn. Machine for drawing sharp edges on metallic bodies. No. 1,031,549; July 2; Gaz. vol. 180; p. 243.
Hanson, Henry. (See Mowry and Hanson.)
Hanson, John Z., and R. Thorp, Aberdeen, Idaho. Torch. No. 1,030,086; June 18; Sp. p. 4404; Gaz. vol. 179; p. 760.
Hanson, Louis, Cottonwood, Idaho. Bag-holder. No. 1,015,621; Jan. 23; Sp. p. 5582; Gaz. vol. 174; p. 956.
Hanson, Louis, Cottonwood, Idaho. Wire-stretcher. No. 1,031,115; July 2; Gaz. vol. 180; p. 95.
Hanson, Martin C., Brager, Minn. Excavating-machine. No. 1,031,788; July 9; Gaz. vol. 180; p. 368.
Hanson, Nils K. F., Stockholm, Sweden. Wood-barking machine. No. 1,024,198; Apr. 23; Sp. p. 5239; Gaz. vol. 177; p. 918.
Hanson, Olaf J., and L. J. Gilbert, Sioux Falls, S. D. Detachable grip-handle. No. 1,027,726; May 28; Sp. p. 5755; Gaz. vol. 178; p. 1003.
Hanson, Thomas C., Rockford, Ill. Spike. No. 1,024,776; Apr. 30; Sp. p. 6546; Gaz. vol. 177; p. 1152.
Hanson, William N., Minden, Nev. Combination-lock. No. 1,048,529; Dec. 31; Gaz. vol. 185; p. 1080.
Hanst, Willis F., Carnegie, Pa. Circuit-breaker. No. 1,045,141; Nov. 26; Gaz. vol. 184; p. 818.
Hanze, Heinrich A., Everett, Mass. Fixture for computing-scales or the like. No. 1,047,214; Dec. 17; Gaz. vol. 185; p. 560.
Hapgood, Cyrus H., Boston, Mass. Refrigerating apparatus. No. 1,046,588; Dec. 10; Gaz. vol. 185; p. 314.
Happel, Albert W. (See Hoffmann and Happel.)
Happle, James W., *et al.* (See Blake, David H., assignor.)
Harania, Joachim, Frankfort-on-the-Main, Germany. Exercising and strength-testing appliance. No. 1,020,551; Mar. 19; Sp. p. 3277; Gaz. vol. 176; p. 585.
Harbaugh, Howard E., Kenosha, Wis. Coin-container. No. 1,021,407; Mar. 26; Sp. p. 5128; Gaz. vol. 176; p. 927.
Harbaugh, Joseph D. (See Pomeroy and Harbaugh.)
Harbaugh, Losh O., Piqua, Ohio. Railway-crossing. No. 1,038,358; Sept. 10; Gaz. vol. 182; p. 428.
Harbeck, Jervis R., assignor, by mesne assignments, to Detroit Can Company, Detroit, Mich. Forming a vapor-proof material. No. 1,027,727; May 28; Sp. p. 5756; Gaz. vol. 178; p. 1003.
Harbeck, Jervis R., assignor to Charles W. Shonk Company, Chicago, Ill. Adding-machine. No. 1,036,614; Aug. 27; Gaz. vol. 181; p. 856.
Harbeck, Jervis R., and B. K. Ford, assignors, by mesne assignments, to Detroit Can Company, Detroit, Mich. Tube-forming machine. No. 1,037,246; Sept. 3; Gaz. vol. 182; p. 24.
Harbison, Clarence. (See Macklin, Trimmer, and Harbison.)
Harbison, Clifford M., assignor of one-half to A. J. Gleissner, Brooklyn, N. Y. Toy wagon. No. 1,028,875; June 11; Sp. p. 1746; Gaz. vol. 179; p. 306.
Harbison-Walker Refractories Co. (See McKnight and Youngman, assignors.)
Harbottle, William E., Sunbury, Ohio. Screen and screen fabric. No. 1,027,476; May 28; Sp. p. 5247; Gaz. vol. 178; p. 920.
Harbrecht, William F., assignor to Hinde & Dauch Paper Company, Sandusky, Ohio. Paper feed and cut-off. No. 1,039,124; Sept. 24; Gaz. vol. 182; p. 742.
Harcourt, Bertram E., *et al.* (See Collins, Frank H., assignor.)
Harcourt, Frederick G. (See Bushey and Harcourt.)
Hard, Charles T., East Liverpool, Ohio. Adjustable support for books, papers, &c. No. 1,026,506; May 14; Sp. p. 3120; Gaz. vol. 178; p. 515.
Hard Manufacturing Company. (See Cobb, James A., assignor.)
Hardacre, James. (See Brown and Hardacre.)
Hardart, Frank, *et al.* (See Fritsche, John, assignor.)
Härdén, Johannes, Schenectady, N. Y., assignor to General Electric Company. Arc-light electrode. No. 1,019,464; Mar. 5; Sp. p. 1057; Gaz. vol. 176; p. 155.
Härdén, Johannes, Schenectady, N. Y., assignor to General Electric Company. Electrode. No. 1,024,257; Apr. 23; Sp. p. 5371; Gaz. vol. 177; p. 941.
Harden, Joseph B., White Day, W. Va. Combined planter and fertilizer-distributer. No. 1,033,168; July 23; Gaz. vol. 180; p. 919.
Hardenburgh, Guy T., and J. A. Schroyer, Ira, Iowa. Automatic railway-crossing guard. No. 1,023,015; Apr. 9; Sp. p. 2683; Gaz. vol. 177; p. 457.

Alphabetical list of patentees—Continued.

Harder, Frederick E. (See Smith, John G., assignor.)
Hardesty, Rudd, Denver, Colo. Sectional culvert. No. 1,044,044; Nov. 12; Gaz. vol. 184; p. 381.
Hardgrave, Harry, Dalhart, Tex. Flying-machine. No. 1,039,679; Sept. 24; Gaz. vol. 182; p. 938.
Hardgrave, Robert G., and C. T. Adair, Tucumcari, N. Mex. Transmission-gearing for motor-vehicles. No. 1,028,876; June 11; Sp. p. 1749; Gaz. vol. 179; p. 306.
Hardie, David, Edmonton, Alberta, Canada. Ink-well. No. 1,029,752; June 18; Sp. p. 3659; Gaz. vol. 179; p. 645.
Hardie, John J., and F. N. Kistner, Chicago, Ill. Sterilizing device. No. 1,036,837; Aug. 27; Gaz. vol. 181; p. 929.
Hardie Manufacturing Company. (See Sykes, George, assignor.)
Hardie, Robert W., Yonkers, N. Y. Scarf-pin guard. No. 1,015,265; Jan. 16; Sp. p. 4791; Gaz. vol. 174; p. 806.
Hardie, Robert W., Yonkers, N. Y. Scarf-pin guard. No. 1,015,266; Jan. 16; Sp. p. 4792; Gaz. vol. 174; p. 806.
Hardie, Robert W., Yonkers, N. Y. Scarf-pin guard. No. 1,039,936; Oct. 1; Gaz. vol. 183; p. 88.
Hardin, Benjiman C., Pikeview, Colo. Rail and frog brace and connector. No. 1,048,690; Dec. 31; Gaz. vol. 185; p. 1137.
Hardin, J. B., *et al.* (See Parker, William A., assignor.)
Hardin, Joseph A., assignor to Interstate Roofing & Foundry Company, Anniston, Ala. Permanent mold. No. 1,019,248; Mar. 5; Sp. p. 531; Gaz. vol. 176; p. 84.
Hardin, Neal, Miles City, Mont. Band-brake. No. 1,039,937; Oct. 1; Gaz. vol. 183; p. 89.
Harding, Alva M., Coudersport, Pa. Spike. No. 1,047,802; Dec. 17; Gaz. vol. 185; p. 769.
Harding, Charles K., Chicago, Ill. Inverted incandescent mantle. No. 1,022,133; Apr. 2; Sp. p. 811; Gaz. vol. 177; p. 128.
Harding, Harry, Rochester, N. Y. Cushioning device. No. 1,046,589; Dec. 10; Gaz. vol. 185; p. 315.
Harding, Henry, Buffalo, Ohio. Gate. No. 1,024,400; Apr. 23; Sp. p. 5658; Gaz. vol. 177; p. 985.
Harding, John A., Kirklin, Ind. Vehicle-door. No. 1,043,926; Nov. 12; Gaz. vol. 184; p. 340.
Harding, Lebbeus L. (See Beinkamp and Harding.)
Harding, Samuel, Buffalo, N. Y. Clothes-stick. No. 1,024,401; Apr. 23; Sp. p. 5660; Gaz. vol. 177; p. 985.
Harding, Thomas, San Jose, Cal. Violin-bridge. No. 1,041,465; Oct. 15; Gaz. vol. 183; p. 671.
Harding, William T., Raleigh, N. C. Casting apparatus. No. 1,040,314; Oct. 8; Gaz. vol. 183; p. 247.
Hardinge Brothers. (See Bell, Albert C., assignor.)
Hardinge Brothers. (See Hardinge, Franklin, assignor.)
Hardinge Conical Mill Company. (See Hardinge, Harry W., assignor.)
Hardinge, Franklin, Chicago, Ill. Signaling system. No. 1,046,182; Dec. 3; Gaz. vol. 185; p. 131.
Hardinge, Franklin, assignor to Hardinge Brothers, Chicago, Ill. Watchman's clock. No. 1,016,688; Feb. 6; Sp. p. 1034; Gaz. vol. 175; p. 158.
Hardinge, Harry W., assignor to Hardinge Conical Mill Company, New York, N. Y. Apparatus for grinding ores and other materials. No. 1,041,783; Oct. 22; Gaz. vol. 183; p. 814.
Hardisty, Arlington L., Silver Spring, Md. Antislipping overshoe for horses. No. 1,023,845; Apr. 23; Sp. p. 4431; Gaz. vol. 177; p. 796.
Hardman, Peck & Company. (See Davis and Hattemer, assignors.)
Hardman, Peck & Company. (See Lundberg, Endfred, assignor.)
Hardman, Peter, Willimantic, Conn. Carding-machine. No. 1,017,665; Feb. 20; Sp. p. 3125; Gaz. vol. 175; p. 564.
Hardman, Peter, Willimantic, Conn. Carding-machine. No. 1,036,838; Aug. 27; Gaz. vol. 181; p. 930.
Hardman, William H., Schenectady, N. Y., assignor to General Electric Company. Graphite brush. No. 1,040,315; Oct. 8; Gaz. vol. 183; p. 247.
Hardsocg, Lester C., assignor to Hardsocg Manufacturing Company, Ottumwa, Iowa. Rotating and feeding mechanism for drill-bars. No. 1,020,903; Mar. 19; Sp. p. 4030; Gaz. vol. 176; p. 703.
Hardsocg Manufacturing Company. (See Hardsocg, Lester C., assignor.)
Hardt, Tyson T., Bluemont, Va. Reversible harrow. No. 1,026,912; May 21; Sp. p. 4025; Gaz. vol. 178; p. 690.
Hardwick & Magee Company. (See Fleming, Herbert, assignor.)
Hardy, Charles S., San Diego, Cal. Combined cutter and mixer. No. 1,022,315; Apr. 2; Sp. p. 1170; Gaz. vol. 177; p. 188.
Hardy, Edward A., Madison, Wis. Sheet-metal battery used for producing an electrochemical bath for cleaning silver. No. 1,048,961; Dec. 31; Gaz. vol. 185; p. 1230.
Hardy, Edward J., assignor of one-half to F. R. Walker Lyle, Wash. Employee's train time-card. No 1,043,696; Nov. 5; Gaz. vol. 184; p. 229.
Hardy, Frederick W., and E. H. Hungerbühler, Saltburn, England. Electrical accumulator. No. 1,032,404; July 16; Gaz. vol. 180; p. 622.
Hardy, John F., Chicago, Ill. Playing-cards. No. 1,034,402; July 30; Gaz. vol. 180; p. 1366.
Hardy, Lewis W., assignor to O. K. Novelty Company, Chicago, Ill. Puzzle. No. 1,017,752; Feb. 20; Sp. p. 3316; Gaz. vol. 175; p. 593.
Hardy, Parrott M., Aurora, N. C. Hame-hook. No. 1,042,911; Oct. 29; Gaz. vol. 183; p. 1228.
Hardy, Stanley, St. Louis, Mo. Cloth-cutting device. No. 1,046,783; Dec. 10; Gaz. vol. 185; p. 384.
Hardy, William J., assignor to Taylor Iron & Steel Company, High Bridge, N. J. Frictional driving device. No. 1,039,125; Sept. 24; Gaz. vol. 182; p. 743.
Hare, Charles R., Newington, assignor to S. E. Elmore, Hartford, Conn. Hand-operated feed device. No. 1,047,936; Dec. 24; Gaz. vol. 185; p. 843.
Hare, Charlie M., *et al.* (See Stewart, Robert F., assignor.)
Hare, Sidney J., Kansas City, Mo. Synchronical indicator or index for books, card systems, and records. No. 1,026,804; May 21; Sp. p. 3770; Gaz. vol. 178; p. 652.
Harer, Grant, Long Creek, Oreg. Horse-detacher. No. 1,038,572; Sept. 17; Gaz. vol. 182; p. 538.
Hargis, Harry W., Monroe, N. C., assignor of one-fifth to C. R. Capps, one-fifth to C. B. Ryan, one-fifth to W. L. McMorris, and one-fifth to E. D. Jordan, Portsmouth, Va. Ticket-cutter. No. 1,027,331; May 21; Sp. p. 4952; Gaz. vol. 178; p. 833.
Hargrave, William H., Portland, Oreg. Cable-clamp. No. 1,036,227; Aug. 20; Gaz. vol. 181; p. 690.
Hargraves, Thomas A., and E. J. McCord, assignors of one-third to T. Sterling, Belfast, Ireland. Vehicle-wheel. No. 1,035,004; Aug. 6; Gaz. vol. 181; p. 201.
Hargreaves, Joseph. (See Steele, Boulter, and Hargreaves.)
Hargreaves, Wilson B., Bloomingdale, N. J. Controllable headlight for vehicles. No. 1,037,000; Aug. 27; Gaz. vol. 181; p. 983.
Hariel, Jules, Paris, France. Bag and envelop printing machinery. No. 1,013,160; Jan. 2; Sp. p. 143; Gaz. vol. 174; p. 25.
Harker, Charles E., Parnassus, assignor to Electric Renovator Manufacturing Company, Pittsburgh, Pa. Suction cleaning-tool. No. 1,041,466; Oct. 15; Gaz. vol. 183; p. 671.
Harker, Ferris P., Cincinnati, Ohio. Gas-heater. No. 1,044,380; Nov. 12; Gaz. vol. 184; p. 496.
Harker, Frederick. (See Wall and Harker.)
Harker, George, Petersham, New South Wales, Australia. Disinfecting inclosed spaces. No. 1,016,145; Jan. 30; Sp. p. 6694; Gaz. vol. 174; p. 1163.
Harkness, Charles B., Cambridge, Mass. Door-check. No. 1,036,098; Aug. 20; Gaz. vol. 181; p. 643.
Harkness, William E., East Orange, N. J., assignor to Western Electric Company, Chicago, Ill. Indicating ringing-key. No. 1,026,160; May 14; Sp. p. 2358; Gaz. vol. 178; p. 398.
Harkrider, R. E., *et al.* (See Tatum, Franklin M., assignor.)
Harlan, Ashlan F., assignor to L. E. Smoot, Washington, D. C. Chain. No. 1,037,001; Aug. 27; Gaz. vol. 182; p. 984.
Harlan, Thomas S., Salt Lake City, Utah. Sanitary dental waste-receptacle. No. 1,022,316; Apr. 2; Sp. p. 1172; Gaz. vol. 177; p. 188.
Harlan, Wilson P., Holtville, Cal. Flume-gate. No. 1,018,662; Feb. 27; Sp. p. 5419; Gaz. vol. 175; p. 939.
Harlé, Emile, assignor to Société Harlé & Cie., Paris, France. Regulator for steam-accumulators. No. 1,023,376; Apr. 16; Sp. p. 3466; Gaz. vol. 177; p. 619.
Harleston, George B., Stuttgart, Ark. Line-holder. No. 1,024,333; Apr. 23; Sp. p. 5500; Gaz. vol. 177; p. 964.
Harley, Cornelius L., Springfield, Mass. Safety-razor. No. 1,048,154; Dec. 24; Gaz. vol. 185; p. 915.
Harley, John S., Minneapolis, Minn., assignor, by mesne assignments, to Universal Automatic Electric Signaling Company, La Crosse, Wis. Thermostat. No. 1,031,847; July 9; Gaz. vol. 180; p. 389.
Harley, John S., Minneapolis, Minn., assignor, by mesne assignments, to Universal Automatic Electric Signaling Company, La Crosse, Wis. Electric signaling system. No. 1,031,848; July 9; Gaz. vol. 180; p. 389.
Harley, John S., Minneapolis, Minn., assignor, by mesne assignments, to Universal Automatic Electric Signaling Company, La Crosse, Wis. Electric switching mechanism. No. 1,031,849; July 9; Gaz. vol. 180; p. 390.
Harley, William S., Milwaukee, Wis. Spring-seat post. (Reissue.) No. 13,383; Mar. 12; Sp. p. 2926; Gaz. vol. 176; p. 495.
Harley, William S., Milwaukee, Wis. Friction-clutch. No. 1,020,199; Mar. 12; Sp. p. 2550; Gaz. vol. 176; p. 433.
Harley, William S., Milwaukee, Wis. Seat-support. No. 1,024,684; Apr. 30; Sp. p. 6357; Gaz. vol. 177; p. 1119.
Harley, William S., Milwaukee, Wis. Seat-support. No. 1,024,685; Apr. 30; Sp. p. 6359; Gaz. vol. 177; p. 1120.
Harling, Alfred E., and G. B. Dobbin, Detroit, Mich. Loose-leaf binder. No. 1,016,496; Feb. 6; Sp. p. 588; Gaz. vol. 175; p. 91.
Harling, James and R., Rosegrove, near Burnley, England. Automatic weft-replenishing mechanism of looms for weaving. No. 1,028,456; June 4; Sp. p. 868; Gaz. vol. 179; p. 130.

Alphabetical list of patentees—Continued.

Harling, Ralph. (See Harling, James and R.)
Harling, Walter, Bryn Mawr, Wash. Mechanical amusement apparatus. No. 1,018,315; Feb. 20; Sp. p. 4594; Gaz. vol. 175; p. 789.
Harlow, Don W., Cleveland, Ohio. Automobile radiator-lamp. No. 1,048,530; Dec. 31; Gaz. vol. 185; p. 1081.
Harlow, Frank, Boston, Mass. Adjustable propeller. No. 1,019,635; Mar. 5; Sp. p. 1390; Gaz. vol. 176; p. 212.
Harlow, Harry B. (See Wells and Harlow.)
Harman, Benjiman F., Tulsa, Okla. Incandescent-mantle chimney. No. 1,024,334; Apr. 23; Sp. p. 5502; Gaz. vol. 177; p. 964.
Harman, Charles W., New Rochelle, assignor to Joseph Fahys & Co., New York, N. Y. Making Swiss watch-bows. No. 1,019,636; Mar. 5; Sp. p. 1392; Gaz. vol. 176; p. 213.
Harman, Daniel M., Philadelphia, Pa. Chair. No. 1,025,266; May 7; Sp. p. 347; Gaz. vol. 178; p. 56.
Harman, Joseph, Hambleton, W. Va. Rock-picker for picking up rocks, &c. No. 1,023,736; Apr. 16; Sp. p. 4164; Gaz. vol. 177; p. 731.
Harman, Samuel L., Dayton, Ohio. Detachable folding bedstead. No. 1,039,527; Sept. 24; Gaz. vol. 182; p. 885.
Harman, William S., Riverside, Ill. Sickle-grinder. No. 1,037,902; Sept. 10; Gaz. vol. 182; p. 276.
Harmatta, Johann, Szepesváralja, Austria-Hungary, assignor to Thomson Electric Welding Company, Lynn, Mass. Electric welding. No. 1,046,066; Dec. 3; Gaz. vol. 185; p. 91.
Harmer, Harry E., and W. M. Wyllie, Calgary, Alberta, Canada. Tool for bending pipe. No. 1,026,353; May 14; Sp. p. 2800; Gaz. vol. 178; p. 465.
Harner, Fay. (See Harner, Ray and F.)
Harner, Ray and F., Colby, Kans. Rotary hammer. No. 1,049,083; Dec. 31; Gaz. vol. 185; p. 1272.
Harmon, Frank L., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Skiving-machine. No. 1,024,569; Apr. 30; Sp. p. 6101; Gaz. vol. 177; p. 1079.
Harmon, Frank P., Dallas, Tex. Rotary engine. No. 1,023,468; Apr. 16; Sp. p. 3652; Gaz. vol. 177; p. 647.
Harmon, John W., Creston, Iowa. Riding-harrow. No. 1,015,887; Jan. 30; Sp. p. 6154; Gaz. vol. 174; p. 1072.
Harmon, Joseph, Duluth, Minn. Gas and smoke consumer. No. 1,036,228; Aug. 20; Gaz. vol. 181; p. 691.
Harmon Machine Company. (See Feeley, Frank G., assignor.)
Harmuth, Albert. (See Eschellmann and Harmuth.)
Harms, Henry J., Orange, and G. E. Small, West Orange, N. J., assignors to Monogram Construction Company. Producing concrete. No. 1,038,125; Sept. 10; Gaz. vol. 182; p. 350.
Harner, Daniel W. (See Mathers, Ezra A., assignor.)
Harness, David F. (See McCarty and Harness.)
Harney, John W., Lynn, Mass. Machine for making box-toes. No. 1,039,052; Sept. 17; Gaz. vol. 182; p. 701.
Harnish, Martin H. (See Mellinger, Theodore G., assignor.)
Harnly, David H., Austin, Ill. Adjustable window-shade. No. 1,044,650; Nov. 19; Gaz. vol. 184; p. 620.
Harnly, John P., Philadelphia, Pa. Steam-trap. No. 1,048,531; Dec. 31; Gaz. vol. 185; p. 1081.
Harper, Ebenezer H. (See Goldstein, Martin, assignor.)
Harper, Enos M., Setauket, N. Y. Cake-turner. No. 1,029,060; June 11; Sp. p. 2149; Gaz. vol. 179; p. 370.
Harper, James L., Newton, Iowa. Seed-corn stringer. No. 1,046,183; Dec. 3; Gaz. vol. 185; p. 131.
Harper, John, Fairfield, Iowa. Liquid-fuel burner. No. 1,036,615; Aug. 27; Gaz. vol. 181; p. 856.
Harper, John A. (See Cable, Daniel J., assignor.)
Harper, Nan G., Altoona, Pa. Curtain-stretcher. No. 1,039,053; Sept. 17; Gaz. vol. 182; p. 701.
Harper, Thomas S., Kings Park, N. Y. Combined under-shirt and suspensory. No. 1,016,625; Feb. 6; Sp. p. 916; Gaz. vol. 175; p. 137.
Harper, William, assignor to The Berlin Machine Works, Beloit, Wis. Planer-knife-adjusting mechanism. No. 1,020,416; Mar. 19; Sp. p. 2982; Gaz. vol. 176; p. 541.
Harpham, G. E., *et al.* (See Opsahl, Tidemand, assignor.)
Harpham, Julius C., Lincoln, Nebr. Harness. No. 1,023,147; Apr. 16; Sp. p. 3015; Gaz. vol. 177; p. 541.
Harpoon Caster Manufacturing Company. (See Schatz, Adam E., assignor.)
Harpstrite, Henry P., Maroa, Ill. Grain-handling device. No. 1,031,850; July 9; Gaz. vol. 180; p. 390.
Harr, John L. Nora Springs, Iowa. Display-rack. No. 1,044,381; Nov. 12; Gaz. vol. 184; p. 496.
Harral, Edward W. (See Crabbe, Elmer W., assignor.)
Harrell, William B., Baldwin, Fla. Cushion-shoe for horses. No. 1,033,315; July 23; Gaz. vol. 180; p. 970.
Harries, Carl, Kiel, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Producing erythrene. No. 1,038,359; Sept. 10; Gaz. vol. 182; p. 428.
Harrild, Henry, Spokane, Wash. Dowel. No. 1,036,229; Aug. 20; Gaz. vol. 181; p. 691.
Harriman, Henry I., Hyde Park, assignor to The Stafford Company, Readville, Mass. Warp stop-motion for looms. No. 1,032,542; July 16; Gaz. vol. 180; p. 668.
Harrington, Alfred B., Danvers, Mass. Reverse-gear mechanism. No. 1,029,610; June 18; Sp. p. 3339; Gaz. vol. 179; p. 595.
Harrington, Arthur M. (See Scott and Harrington.)
Harrington, Arthur M., assignor to Edwin Harrington, Son & Co., Inc., Philadelphia, Pa. Track-suspender. No. 1,033,395; July 23; Gaz. vol. 180; p. 996.
Harrington, Bertie S., and S. T. Allen, Rome, Ga. Fire-alarm. No. 1,043,228; Nov. 5; Gaz. vol. 184; p. 65.
Harrington, Charles A., Elko, Nev. Adjustable rigging-plate. No. 1,040,316; Oct. 8; Gaz. vol. 183; p. 247.
Harrington, Clyde M., Chrisman, Ill. Animal-trap. No. 1,029,992; June 18; Sp. p. 4189; Gaz. vol. 179; p. 726.
Harrington, David, Eagle Lake, Tex. Flash-lamp. No. 1,042,341; Oct. 22; Gaz. vol. 183; p. 1001.
Harrington, Edward. (See Cronin and Harrington.)
Harrington, Edward C., assignor to J. S. Taylor, St. Louis, Mo. Pocket pass-case. No. 1,021,598; Mar. 26; Sp. p. 5525; Gaz. vol. 176; p. 992.
Harrington, Francis B., *et al.* (See Williams, Hiram C., assignor.)
Harrington, Francis B. (See Williams and Payne, assignors.)
Harrington, Frank B., Elk City, Okla. Weighing apparatus for refrigerators. No. 1,024,335; Apr. 23; Sp. p. 5503; Gaz. vol. 177; p. 964.
Harrington, Frank W., Coventry, assignor to W. K. Logee, Providence, R. I. Automatic draft-regulator for steam-boiler furnaces. No. 1,036,616; Aug. 27; Gaz. vol. 181; p. 856.
Harrington, George H., Cincinnati, Ohio. Instantaneous water-heater. No. 1,015,314; Jan. 23; Sp. p. 4907; Gaz. vol. 174; p. 850.
Harrington, John L., Kansas City, Mo. Lift-bridge. No. 1,027,477; May 28; Sp. p. 5248; Gaz. vol. 178; p. 921.
Harrington, John L., Kansas City, Mo. Lift-bridge. No. 1,027,478; May 28; Sp. p. 5251; Gaz. vol. 178; p. 921.
Harrington, John L., Lewiston, N. C. Peanut-picking machine. No. 1,035,437; Aug. 13; Gaz. vol. 181; p. 381.
Harrington, John W., assignor to Harrington & Richardson Arms Company, Worcester, Mass. Firearm. No. 1,015,490; Jan. 23; Sp. p. 5309; Gaz. vol. 174; p. 910.
Harrington, Joseph. (See Poppenhusen and Harrington.)
Harrington, Joseph A., South Boston, assignor of one-half to M. J. Lydon, Boston, Mass. Stropping device. No. 1,024,074; Apr. 23; Sp. p. 4935; Gaz. vol. 177; p. 874.
Harrington, Norman T., Lansing, Mich. Governor for explosion-engines. No. 1,036,617; Aug. 27; Gaz. vol. 181; p. 857.
Harrington, Norman T., Lansing, Mich. Reversing transmission mechanism. No. 1,037,002; Aug. 27; Gaz. vol. 181; p. 984.
Harrington & Richardson Arms Company. (See Harrington, John W., assignor.)
Harrington, Robert J., Dalton, Mass. Yarn-evening attachment for spinning-mules. No. 1,014,299; Jan. 9; Sp. p. 2681; Gaz. vol. 174; p. 447.
Harrington, William T. C., Fall River, assignor of one-half to J. M. Whittemore, Boston, Mass. Yarn guide and clearer. No. 1,048,830; Dec. 31; Gaz. vol. 185; p. 1186.
Harris, Abraham W., Warwick, R. I. Oil-display rack. No. 1,017,540; Feb. 13; Sp. p. 2883; Gaz. vol. 175; p. 486.
Harris Air Pump Company. (See Miller, Francis S., assignor.)
Harris, Albert G., Greenville, Tex. Window-shade holder. No. 1,048,691; Dec. 31; Gaz. vol. 185; p. 1138.
Harris, Albert W., Grand Mere, Quebec, Canada. Hydraulic machine. No. 1,043,101; Nov. 5; Gaz. vol. 184; p. 18.
Harris, Allen S., Rich Hill, Ohio. Saw-setting device. No. 1,028,088; May 28; Sp. p. 6585; Gaz. vol. 178; p. 1123.
Harris, Arthur W., assignor to The Harris Calculating Machine Company Limited, London, England. Typewriting and calculating machine. No. 1,029,500; June 11; Sp. p. 3105; Gaz. vol. 179; p. 521.
Harris Automatic Press Company, The. (See Johnston, Robert T., assignor.)
Harris Automatic Press Company, The. (See Smith, Walter H., assignor.)
Harris-Brown Table Co. (See Harris, Clarence H., assignor.)
Harris Calculating Machine Company Limited, The. (See Harris, Arthur W., assignor.)
Harris, Clarence H., Cheyenne, assignor to Harris-Brown Table Co., Rawlins, Wyo. Extensible table. No. 1,037,758; Sept. 3; Gaz. vol. 182; p. 194.
Harris, Clifford R., Worcester, Mass., assignor to American Car and Foundry Company, St. Louis, Mo. Vent for tank-cars. No. 1,047,517; Dec. 17; Gaz. vol. 185; p. 669.
Harris, Clifford T. (See Withers and Harris.)
Harris, Daniel W., Platte City, Mo. Inner tube for automobile-wheels. No. 1,047,803; Dec. 17; Gaz. vol. 185; p. 769.
Harris, Delvin B., Minturn, Cal. Rodent-exterminator. No. 1,018,109; Feb. 20; Sp. p. 4176; Gaz. vol. 175; p. 719.

Alphabetical list of patentees—Continued.

Harris, Edgar B. (See McConnell and Harris.)
Harris, Edward A. (See Dunnebacke and Harris.)
Harris, Edward E., assignor of one-sixth to J. M. Cecil, one-sixth to R. F. Wilson, and one-sixth to W. E. Watkins, Valliant, Okla. Window-shade-controlling device. No. 1,044,453; Nov. 12; Gaz. vol. 184; p. 520.
Harris, Ernest B., and A. Zamrsky, Fort Stevens, Oreg. Flying-machine. No. 1,044,382; Nov. 12; Gaz. vol. 184; p. 497.
Harris, Ford W., Wilkinsburg, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. System of electric-circuit control. No. 1,017,052; Feb. 13; Sp. p. 1825; Gaz. vol. 175; p. 317.
Harris, Ford W., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Circuit-interrupter. No. 1,029,753; June 18; Sp. p. 3660; Gaz. vol. 179; p. 645.
Harris, Ford W., Wilkinsburg, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Circuit-interrupter. No. 1,031,789; July 9; Gaz. vol. 180; p. 369.
Harris, Ford W., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Inclosed fuse. No. 1,042,434; Oct. 29; Gaz. vol. 183; p. 1061.
Harris, Fradelshon, and R. Sternberg, St. Louis, Mo. Shoe-cleaner. No. 1,017,096; Feb. 13; Sp. p. 1943; Gaz. vol. 175; p. 334.
Harris, Fred R., assignor to The American Tobacco Company, New York, N. Y. Feeding and positioning mechanism. No. 1,044,454; Nov. 12; Gaz. vol. 184; p. 521.
Harris, Frederich W., Owen Sound, Ontario, Canada. High-chair. No. 1,043,927; Nov. 12; Gaz. vol. 184; p. 340.
Harris, George F., Logansport, Ind. Level. No. 1,025,086; Apr. 30; Sp. p. 7170; Gaz. vol. 177; p. 1257.
Harris, Gordon D., Bay Shore, and J. S. Pollard, Mamaroneck, N. Y., assignors, by mesne assignments, to General Dehydrator Company. Food product and preparing it. No. 1,017,411; Feb. 13; Sp. p. 2609; Gaz. vol. 175; p. 442.
Harris, Gordon D., Bay Shore, and J. S. Pollard, Mamaroneck, N. Y., assignors, by mesne assignments, to General Dehydrator Company. Apparatus for dehydrating foods. No. 1,017,412; Feb. 13; Sp. p. 2612; Gaz. vol. 175; p. 442.
Harris, Gordon D., Bay Shore, and J. S. Pollard, Mamaroneck, N. Y., assignors, by mesne assignments, to General Dehydrator Company. Apparatus for dehydrating foods. No. 1,018,388; Feb. 20; Sp. p. 4758; Gaz. vol. 175; p. 814.
Harris, Henry A. (See Wilson and Harris.)
Harris, Henry E., London, England. Gas-burner. No. 1,024,849; Apr. 30; Sp. p. 6698; Gaz. vol. 177; p. 1179.
Harris, Hollis H., assignor to The Thew Automatic Shovel Company, Lorain, Ohio. Roller-bearing for turn-tables. No. 1,043,826; Nov. 12; Gaz. vol. 184; p. 305.
Harris, Hollis H., assignor to The Thew Automatic Shovel Company, Lorain, Ohio. Excavating apparatus. No. 1,049,229; Dec. 31; Gaz. vol. 185; p. 1321.
Harris, John, Sheffield, England. Mechanical ore-roasting furnace. No. 1,035,186; Aug. 13; Gaz. vol. 181; p. 293.
Harris, John, assignor to The Metals Welding Company, Cleveland, Ohio. Blowpipe. No. 1,044,651; Nov. 19; Gaz. vol. 184; p. 620.
Harris, John F., Pickens, S. C. Foot-pocket. No. 1,022,235; Apr. 2; Sp. p. 1029; Gaz. vol. 177; p. 164.
Harris, John J., Calumet, Mich. Clothes-pin holder. No. 1,017,097; Feb. 13; Sp. p. 1944; Gaz. vol. 175; p. 334.
Harris, John R., Chartiers township, Allegheny county, Pa. Split insulator. No. 1,042,372; Oct. 22; Gaz. vol. 183; p. 1010.
Harris, Joseph G., Philadelphia, Pa. Antislipping device for horses and other animals. No. 1,032,138; July 9; Gaz. vol. 180; p. 485.
Harris, Joseph T. (See Chinn and Harris.)
Harris, Leonard, London, England. Spring suspension for road-vehicles. No. 1,021,251; Mar. 26; Sp. p. 4774; Gaz. vol. 176; p. 871.
Harris, Leonard, London, England. Manufacture of pneumatic cushioning devices for the elastic suspension of road-vehicles. No. 1,033,010; July 16; Gaz. vol. 180; p. 826.
Harris, Louis E. M. and T. S., Western Port, Md. Blasting device. No. 1,015,021; Jan. 16; Sp. p. 4306; Gaz. vol. 174; p. 724.
Harris, Mary D., Piggott, Ark. Well-auger. No. 1,036,230; Aug. 20; Gaz. vol. 181; p. 691.
Harris, Mary M., Hazlehurst, Miss. Combination bias, binding, and hem folder. No. 1,016,626; Feb. 6; Sp. p. 917; Gaz. vol. 175; p. 137.
Harris, Milo, Jamestown, N. Y. Hinge. No. 1,033,582; July 23; Gaz. vol. 180; p. 1057.
Harris, Moses A., assignor of one-half to L. A. Clark, Westfield, N. J. Clutch-coupling. No. 1,040,317; Oct. 8; Gaz. vol. 183; p. 248.
Harris, Nathaniel, Ellsworth, Kans. Antirattling device for window-sashes. No. 1,035,005; Aug. 6; Gaz. vol. 181; p. 202.
Harris, Noah, Indianapolis, Ind. Resilient tire. No. 1,024,336; Apr. 23; Sp. p. 5504; Gaz. vol. 177; p. 965.
Harris, Otis L., *et al.* (See Lancaster, Charles P., assignor.)
Harris, Otto E., Indianapolis, Ind. Air-lift pump. No. 1,028,209; June 4; Sp. p. 340; Gaz. vol. 179; p. 46.
Harris, Reese T., Buffalo, N. Y. Casting metal. No. 1,017,969; Feb. 20; Sp. p. 3870; Gaz. vol. 175; p. 669.
Harris, Reese T., Buffalo, N. Y. Mold for casting metal. No. 1,017,970; Feb. 20; Sp. p. 3873; Gaz. vol. 175; p. 670.
Harris, Rhoda C., Pittsburgh, Pa. Tire-protector. No. 1,015,178; Jan. 16; Sp. p. 4605; Gaz. vol. 174; p. 776.
Harris, Rhoda C., Pittsburgh, Pa. Tire-protector. No. 1,038,360; Sept. 10; Gaz. vol. 182; p. 429.
Harris, Richard C., Newark, N. J. Box for perforated music-rolls. No. 1,048,831; Dec. 31; Gaz. vol. 185; p. 1186.
Harris, Richard G., assignor of one-half to F. M. Hambright, Knoxville, Tenn. Vehicle-lamp. No. 1,023,519; Apr. 16; Sp. p. 3758; Gaz. vol. 177; p. 664.
Harris, Robert H., Boston, assignor to The Turner Tanning Machinery Company, Peabody, Mass. Roll for leather-working machines. No. 1,041,074; Oct. 15; Gaz. vol. 183; p. 540.
Harris, Samuel L., assignor of one-third to N. Dunsmore, Knoxville, Tenn. Rail-joint. No. 1,020,820; Mar. 19; Sp. p. 3870; Gaz. vol. 176; p. 676.
Harris, Sarah, (now by marriage Sarah Rosentover,) New York, N. Y. Collar. No. 1,039,528; Sept. 24; Gaz. vol. 182; p. 886.
Harris, Sarah, (now by marriage Sarah Rosentover,) New York, N. Y. Collar. No. 1,039,680; Sept. 24; Gaz. vol. 182; p. 938.
Harris, Sarah, (now by marriage S. Rosentover,) New York, N. Y. Collar. No. 1,048,155; Dec. 24; Gaz. vol. 185; p. 916.
Harris, Thomas H., Scranton, Pa. Toy. No. 1,039,529; Sept. 24; Gaz. vol. 182; p. 886.
Harris, Thomas S. (See Harris, Louis E. M. and T. S.)
Harris, Warren, assignor of one-half to A. J. Eddy and R. F. Berryman, Turlock, Cal. Block and tackle. No. 1,043,928; Nov. 12; Gaz. vol. 184; p. 341.
Harris, William, Paterson, N. J. Loom. No. 1,020,388; Mar. 12; Sp. p. 2910; Gaz. vol. 176; p. 493.
Harris, William F. (See Dawson, William, assignor.)
Harris, William F., Lakenan, Mo. Adjustable stovepipe-joint. No. 1,041,467; Oct. 15; Gaz. vol. 183; p. 671.
Harris, William H., Trinidad, Colo. Weed-puller. No. 1,020,094; Mar. 12; Sp. p. 2313; Gaz. vol. 176; p. 397.
Harris, William L., Petersburg, Va. Peanut-planter. No. 1,041,275; Oct. 15; Gaz. vol. 183; p. 608.
Harris, William P., Stockton, Cal. Airship. No. 1,047,937; Dec. 24; Gaz. vol. 185; p. 843.
Harrison, Abraham C., Grand Rapids, Ohio. Fence-post. No. 1,038,573; Sept. 17; Gaz. vol. 182; p. 538.
Harrison, Albert V., West Orange, N. J. Scraping device for cans and the like. No. 1,017,753; Feb. 20; Sp. p. 3318; Gaz. vol. 175; p. 594.
Harrison, Alvin F., Topeka, Kans. Starting device for auto-engines. No. 1,042,672; Oct. 29; Gaz. vol. 183; p. 1145.
Harrison, Arthur W., Providence, R. I., assignor to U. K. Pettingill, Boston, Mass. Pencil. No. 1,021,148; Mar. 26; Sp. p. 4538; Gaz. vol. 176; p. 837.
Harrison Bros. & Co. (See Schanche, Herman G., assignor.)
Harrison Bros. & Co. (See Schanche and Havens, assignors.)
Harrison, Burt S., New York, N. Y. Air-tube heater. No. 1,032,601; July 16; Gaz. vol. 180; p. 688.
Harrison, Burt S., New York, N. Y. Gas and air tight joint. No. 1,032,753; July 16; Gaz. vol. 180; p. 742.
Harrison, Charles, Fishtail, Mont. Picket and tent pin. No. 1,034,109; July 30; Gaz. vol. 180; p. 1264.
Harrison, Charles, W. Bate, and W. G. Perks, Hayle, England. Recovering volatile liquids. No. 1,022,416; Apr. 9; Sp. p. 1380; Gaz. vol. 177; p. 253.
Harrison, Fred, Worcester, England. Dynamometer. No. 1,035,700; Aug. 13; Gaz. vol. 181; p. 469.
Harrison, George E., Billings, Okla. Motor-plow. No. 1,047,215; Dec. 17; Gaz. vol. 185; p. 561.
Harrison, George H., *et al.* (See Dunn, Frederick W., assignor.)
Harrison, George R. (See Nothaft and Harrison.)
Harrison, George R., assignor of one-half to W. Nothaft, Philadelphia, Pa. Horse-detacher. No. 1,018,707; Feb. 27; Sp. p. 5514; Gaz. vol. 175; p. 954.
Harrison, George W., assignor of one-half to F. Warner, Indianapolis, Ind. Shoe-jack. No. 1,037,619; Sept. 3; Gaz. vol. 182; p. 148.
Harrison, Herbert C., Lockport, N. Y. Multibladed razor. No. 1,024,509; Apr. 30; Sp. p. 5933; Gaz. vol. 177; p. 1058.
Harrison, James B., Portland, Oreg. Vehicle-chock. No. 1,047,048; Dec. 10; Gaz. vol. 185; p. 470.
Harrison, James J., and A. B. Chatfield, Jr., Wichita, Kans. Medicine-ejector. No. 1,019,465; Mar. 5; Sp. p. 1058; Gaz. vol. 176; p. 155.
Harrison, James R., Peoria, Ill. Drainage system. No. 1,032,405; July 16; Gaz. vol. 180; p. 623.
Harrison, John, Malad City, Idaho. Gate-hinge. No. 1,035,584; Aug. 13; Gaz. vol. 181; p. 431.

Alphabetical list of patentees—Continued.

Harrison, John, Chiricahua, Ariz. Plow-point. No. 1,048,962; Dec. 31; Gaz. vol. 185; p. 1230.
Harrison, John P., Ludlow, Ky., assignor to Burroughs Adding Machine Company, Detroit, Mich. Adding-machine. No. 1,015,227; Jan. 16; Sp. p. 4697; Gaz. vol. 174; p. 792.
Harrison, John T., Philadelphia, Pa. Self-heating sad-iron. No. 1,036,099; Aug. 20; Gaz. vol. 181; p. 643.
Harrison, John W., Wilmerding, Pa. Drill-socket. No. 1,033,099; July 23; Gaz. vol. 180; p. 895.
Harrison, Joseph J., Los Angeles, Cal. Wall-safe. No. 1,023,425; Apr. 16; Sp. p. 3565; Gaz. vol. 177; p. 634.
Harrison, Julius M., Cora, Fla. Sap-gatherer. No. 1,016,406; Feb. 6; Sp. p. 379; Gaz. vol. 175; p. 60.
Harrison, Owen L., Coleta, Ill. Handle for articles of hardware. No. 1,015,022; Jan. 16; Sp. p. 4307; Gaz. vol. 174; p. 725.
Harrison, Philip B. (See Busse and Harrison.)
Harrison, Philip B., assignor to Chicago Railway Equipment Company, Chicago, Ill. Brake-head for railway-cars. No. 1,017,053; Feb. 13; Sp. p. 1828; Gaz. vol. 175; p. 317.
Harrison, Philip B., assignor to Chicago Railway Equipment Company, Chicago, Ill. Clip for guard-fingers. No. 1,019,893; Mar. 12; Sp. p. 1907; Gaz. vol. 176; p. 331.
Harrison, Philip B., assignor to Chicago Railway Equipment Company, Chicago, Ill. Adjustable brake-head. No. 1,019,894; Mar. 12; Sp. p. 1908; Gaz. vol. 176; p. 331.
Harrison, Philip B., assignor to Chicago Railway Equipment Company, Chicago, Ill. Reversible strut for brake-beams. No. 1,037,903; Sept. 10; Gaz. vol. 182; p. 277.
Harrison, Philip B., and A. P. Rissler, Chicago, Ill. Core-box-clamping machine. No. 1,022,363; Apr. 2; Sp. p. 1272; Gaz. vol. 177; p. 204.
Harrison, Robert B., and J. Wilting, assignors to A. J. Logan Company, Pittsburgh, Pa. Spring bed fabric. No. 1,033,396; July 23; Gaz. vol. 180; p. 997.
Harrison, Robert J. (See Murphy and Harrison.)
Harrison Safety Boiler Works. (See Gamble, Joseph W., assignor.)
Harrison Safety Boiler Works. (See Gibson, George H., assignor.)
Harrison Safety Boiler Works. (See Wallem, Axel B., assignor.)
Harrison, Thomas J., Sabula, Iowa. Fountain-mold. No. 1,021,927; Apr. 2; Sp. p. 363; Gaz. vol. 177; p. 60.
Harrison, William H., Philadelphia, Pa. Couch-hammock. No. 1,047,938; Dec. 24; Gaz. vol. 185; p. 844.
Harriss, John A., New York, N. Y. Knife. No. 1,047,629; Dec. 17; Gaz. vol. 185; p. 708.
Harrold, Elmer, assignor to The Crescent Machine Company, Leetonia, Ohio. Frame for wood-planing machines. No. 1,035,187; Aug. 13; Gaz. vol. 181; p. 293.
Harrop, Edwin G., London, England. Finger-ring. No. 1,018,663; Feb. 27; Sp. p. 5420; Gaz. vol. 175; p. 939.
Harry, Aubrey C., Portsmouth, Ohio. Flying-machine. No. 1,039,530; Sept. 24; Gaz. vol. 182; p. 886.
Harry, Spencer P., London, England, assignor to The Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 1,021,835; Apr. 2; Sp. p. 187; Gaz. vol. 177; p. 31.
Harry Vissering and Company. (See Vissering, Harry, assignor.)
Harsen, Jacob, New York, N. Y. Tube-cleaner. No. 1,047,939; Dec. 24; Gaz. vol. 185; p. 844.
Harsey, Haskell, Andalusia, Ala. Turpentine-cup. No. 1,017,541; Feb. 13; Sp. p. 2885; Gaz. vol. 175; p. 487.
Harsh, John M., Cleveland, Ohio. Water-distilling apparatus. No. 1,013,936; Jan. 9; Sp. p. 1897; Gaz. vol. 174; p. 323.
Harsh, Samuel E., Wabash, Ind. Checkrein-spring. No. 1,040,195; Oct. 1; Gaz. vol. 183; p. 175.
Harshman, Clyde. (See Britten, William M., assignor.)
Hart, Benjamin F., Jr., Hoboken, N. J. Water-cooling tower. No. 1,023,564; Apr. 16; Sp. p. 3849; Gaz. vol. 177; p. 678.
Hart, Benjamin F., Jr., Hoboken, N. J. Tray for cooling-towers. No. 1,040,318; Oct. 8; Gaz. vol. 183; p. 248.
Hart, Burnett B. (See Pearson, Thomas F., assignor.)
Hart, Charles A., Findlay, Ohio. Automobile-jack. No. 1,029,993; June 18; Sp. p. 4191; Gaz. vol. 179; p. 727.
Hart, Charles A., Findlay, Ohio. Automobile-jack. No. 1,030,728; June 25; Sp. p. 6025; Gaz. vol. 179; p. 1026.
Hart, Charles A., Findlay, Ohio. Lifting-jack. No. 1,042,222; Oct. 22; Gaz. vol. 183; p. 961.
Hart & Crouse Company. (See Newton, John L., assignor.)
Hart, Edgar J. M., New York, N. Y. Compound for removing grease-paint, burnt cork, &c., from the face. No. 1,029,118; June 11; Sp. p. 2277; Gaz. vol. 179; p. 389.
Hart, Frederick, Poughkeepsie, N. Y. Machine for wrapping coins. No. 1,038,361; Sept. 10; Gaz. vol. 182; p. 429.
Hart, George B., Rochester, N. Y. Article-holder. No. 1,033,583; July 23; Gaz. vol. 180; p. 1057.
Hart, George P., and S. W. Parsons, assignors to The Stanley Works, New Britain, Conn. Handle. No. 1,040,944; Oct. 8; Gaz. vol. 183; p. 461.
Hart, Gerald W., West Hartford, assignor to The Hart Manufacturing Company, Hartford, Conn. Multithrow switch. No. 1,014,300; Jan. 9; Sp. p. 2684; Gaz. vol. 174; p. 448.
Hart, Gerald W., West Hartford, assignor to The Hart Manufacturing Company, Hartford, Conn. Means for securing conductor-terminals. No. 1,046,067; Dec. 3; Gaz. vol. 185; p. 92.
Hart, Harry D., San Diego, Cal. Resilient tire for vehicles. No. 1,047,407; Dec. 17; Gaz. vol. 185; p. 629.
Hart, Harry S., assignor to Rodger Ballast Car Company, Chicago, Ill. Dump-car. No. 1,018,389; Feb. 20; Sp. p. 4760; Gaz. vol. 175; p. 815.
Hart, Harry S., assignor to Rodger Ballast Car Company, Chicago, Ill. Dump-car. No. 1,022,079; Apr. 2; Sp. p. 691; Gaz. vol. 177; p. 111.
Hart, Harry S., assignor to Wolff Truck Frame Company, Chicago, Ill. Truck-frame. No. 1,026,744; May 21; Sp. p. 3634; Gaz. vol. 178; p. 632.
Hart & Hegeman Manufacturing Company. (See Guett, Monroe, assignor.)
Hart & Hegeman Manufacturing Company, The. (See Morris, Shiras, assignor.)
Hart, Henry A., Flushing, assignor of one-half to E. C. Carter, New York, N. Y. Curtain-heading tape. No. 1,017,754; Feb. 20; Sp. p. 3320; Gaz. vol. 175; p. 594.
Hart, Ida M., Sharpstown, Ind. Pencil-holder. No. 1,033,693; July 23; Gaz. vol. 180; p. 1092.
Hart, Irving S., Waverly, N. Y. Silo. No. 1,042,788; Oct. 29; Gaz. vol. 183; p. 1185.
Hart, Joel T., San Antonio, Tex., and J. D. Hart, Oakland, Cal. Combined latch and lock for screen-doors, &c. No. 1,036,100; Aug. 20; Gaz. vol. 181; p. 643.
Hart, John B., Austin, Colo. Fruit-grading machine. No. 1,048,963; Dec. 31; Gaz. vol. 185; p. 1230.
Hart, John B., assignor to The North and Pfeiffer Manufacturing Company, Hartford, Conn. Boot or shoe calk. No. 1,025,087; Apr. 30; Sp. p. 7171; Gaz. vol. 177; p. 1257.
Hart, John D. (See Hart, Joel T. and J. D.)
Hart, Louis F., assignor to The Hart Manufacturing Company, Cleveland, Ohio. Device for cutting screw-threads. No. 1,017,148; Feb. 13; Sp. p. 2043; Gaz. vol. 175; p. 351.
Hart, Lowell J., *et al.* (See Frederickson, Clayton E., assignor.)
Hart, Lucien P., Philadelphia, Pa. Dyeing apparatus. No. 1,033,584; July 23; Gaz. vol. 180; p. 1058.
Hart Manufacturing Company, The. (See Hart, Gerald W., assignor.)
Hart, Manufacturing Company, The. (See Hart, Louis F., assignor.)
Hart Manufacturing Company, The. (See Leppert, Henry E., assignor.)
Hart Manufacturing Company, The. (See Palmer, Granville E., assignor.)
Hart-Otis Car Company, Limited, The. (See Yost, Winfield H., assignor.)
Hart, Philip, London, assignor of one-half to L. V. Rogers, Westcliff-on-Sea, England. Advertising apparatus. No. 1,014,469; Jan. 9; Sp. p. 3047; Gaz. vol. 174; p. 505.
Hart, Ray E., Battle Creek, Mich. Shock-absorber for vehicles. No. 1,041,276; Oct. 15; Gaz. vol. 183; p. 609.
Hart, Robert A., West Liberty, Pa. Punching-bag apparatus. No. 1,032,139; July 9; Gaz. vol. 180; p. 485.
Hart, Stacy B., Peoria, Ill. Broadcast seeder. No. 1,026,313; May 14; Sp. p. 2693; Gaz. vol. 178; p. 451.
Hart, Thomas F., Lynn, Mass. Snipping-machine. No. 1,040,671; Oct. 8; Gaz. vol. 183; p. 373.
Hart, Thomas H., Everett, Mass. Permutation-lock. No. 1,021,672; Mar. 26; Sp. p. 5642; Gaz. vol. 176; p. 1015.
Hart, William J., Mount Vernon, assignor to C. F. Splitdorf, New York, N. Y. Breaker-box for ignition systems. No. 1,025,566; May 7; Sp. p. 1037; Gaz. vol. 178; p. 160.
Harter, Edwin S., *et al.* (See Fairfield, Alfred R., assignor.)
Harter, James R. (See Slover and Harter.)
Harter, Noah S., Waukegan, Ill. Method of and apparatus for forming flexible tubes. No. 1,042,552; Oct. 29; Gaz. vol. 183; p. 1102.
Harter, Noah S., Waukegan, Ill., assignor to The American Steel & Wire Company of New Jersey, Hoboken, N. J. Machine for coiling and cutting coil-springs. No. 1,029,540; June 11; Sp. p. 3179; Gaz. vol. 179; p. 533.
Harter, Noah S., Waukegan, Ill., assignor to American Steel and Wire Company of New Jersey, Hoboken, N. J. Mechanism for coiling and cutting wire springs. No. 1,040,196; Oct. 1; Gaz. vol. 183; p. 175.
Hartford Electric Light Company, The. (See Cutler and Owens, assignors.)
Hartford, John D., *et al.* (See Ivor, Barry, assignor.)
Hartford Machine Screw Company, The. (See Pearson and Seward, assignors.)
Hartford Machine Screw Company, The. (See Seward, Ernest R., assignor.)

Alphabetical list of patentees—Continued.

Harthan, Warren P., assignor to J. R. Torrey and Co., Worcester, Mass. Razor-strop. No. 1,033,169; July 23; Gaz. vol. 180; p. 919.
Hartig, Arthur E., Chicago, Ill. Registering physical-exercising machine. No. 1,040,672; Oct. 8; Gaz. vol. 183; p. 374.
Hartig, Edward, and C. A. Ladwig, Chicago, Ill. Rotary motor. No. 1,047,518; Dec. 17; Gaz. vol. 185; p. 669.
Harting, Clayton C., and J. F. Flood, Woodstock, assignors to The Oliver Typewriter Company, Chicago, Ill. Spring-barrel brake for type-writing machines. No. 1,018,760; Feb. 27; Sp. p. 5633; Gaz. vol. 175; p. 973.
Hartke, George J., Cincinnati, Ohio. Envelop. No. 1,031,550; July 2; Gaz. vol. 180; p. 244.
Hartley, Arthur J., assignor to C. J. Hartley Co., Decatur, Ill. Adjustable spout or conveyer. No. 1,033,316; July 23; Gaz. vol. 180; p. 970.
Hartley, Arthur J., assignor to C. J. Hartley Co., Decatur, Ill. Supporting and driving device for conveyers and the like. No. 1,033,317; July 23; Gaz. vol. 180; p. 971.
Hartley, Delbert, Los Angeles, Cal. Shock-absorber. No. 1,043,827; Nov. 12; Gaz. vol. 184; p. 305.
Hartley, George W., Detroit, Mich. Box. No. 1,042,789; Oct. 29; Gaz. vol. 183; p. 1186.
Hartley, Guy M., Dighton, Mich. Differential gear. No. 1,020,417; Mar. 19; Sp. p. 2985; Gaz. vol. 176; p. 541.
Hartley, Heber L., Duluth, Minn. Wire-fastener for metallic fence-posts. No. 1,039,531; Sept. 24; Gaz. vol. 182; p. 887.
Hartley, James, Philadelphia, Pa. Burglar and fire alarm. No. 1,026,393; May 14; Sp. p. 2879; Gaz. vol. 178; p. 477.
Hartley, James, Philadelphia, Pa. Alarm. No. 1,040,197; Oct. 1; Gaz. vol. 183; p. 176.
Hartley, John W. (See Lunt and Hartley.)
Hartley, William, Stirling, Alberta, Canada. Self-leveling table. No. 1,047,216; Dec. 17; Gaz. vol. 185; p. 561.
Hartman, August H., Seattle, Wash. Drinking-cup. No. 1,022,548; Apr. 9; Sp. p. 1673; Gaz. vol. 177; p. 297.
Hartman, Charles, Bucyrus, Ohio. Shipping-case. No. 1,028,020; May 28; Sp. p. 6421; Gaz. vol. 178; p. 1102.
Hartman, Charles, Bucyrus, Ohio. Hinge. No. 1,028,021; May 28; Sp. p. 6423; Gaz. vol. 178; p. 1102.
Hartman, Charles, Chadwick, Ill. Belt-tension regulator for ice-cutting machines. No. 1,040,198; Oct. 1; Gaz. vol. 183; p. 176.
Hartman, Charles H., Atlanta, Ga. Music-indicator. No. 1,045,021; Nov. 19; Gaz. vol. 184; p. 749.
Hartman, Henry H. (See Hartman, John and H. H.)
Hartman, Jacob, Rochester, N. Y. Deposit and collection receptacle. No. 1,046,784; Dec. 10; Gaz. vol. 185; p. 385.
Hartman, John. (See Johnson and Hartman.)
Hartman, John and H. H., Morral, Ohio. Gambrel. No. 1,023,148; Apr. 16; Sp. p. 3016; Gaz. vol. 177; p. 542.
Hartman, Joseph B., and P. O. Cummiskey, St. Louis, Mo.; said Cummiskey assignor to said Hartman. Dry separator and amalgamator. No. 1,034,792; Aug. 6; Gaz. vol. 181; p. 132.
Hartman Manufacturing Company. (See Holt, William L., assignor.)
Hartman Manufacturing Company. (See Wygant, Lewis B., assignor.)
Hartman, Rudolph B., Milwaukee, Wis. Reinforcement system for concrete structures. No. 1,033,797; July 30; Gaz. vol. 180; p. 1152.
Hartman, Rudolph B., Milwaukee, Wis. Core for hollow concrete structures. No. 1,033,798; July 30; Gaz. vol. 180; p. 1153.
Hartman, Rudolph B., Milwaukee, Wis. Apparatus for bending metal rods. No. 1,042,112; Oct. 22; Gaz. vol. 183; p. 926.
Hartman Trunk Company, The. (See Wheary, George H., assignor.) (Reissue.)
Hartmann & Braun A.-G. (See Cahen, Hermann, assignor.)
Hartmann & Braun A. G. (See Schaefer, Béla B., assignor.)
Hartmann and Braun, Aktiengesellschaft. (See Keller, Wilhelm, assignor.)
Hartmann, Edward J. (See Hartmann, George H. and E. J.)
Hartmann, George H. and E. J., New York, N. Y. Combined chair, ironing-board, and drying-rack. No. 1,031,066; July 2; Gaz. vol. 180; p. 78.
Hartmann, George J., White Plains, N. Y. Feed-wire connection for electric motors. No. 1,031,337; July 2; Gaz. vol. 180; p. 171.
Hartmann, Geza, San Francisco, and R. J. Busch, Los Angeles, Cal. Metallic alloy. No. 1,020,757; Mar. 19; Sp. p. 3733; Gaz. vol. 176; p. 655.
Hartmann, Hugo, Berlin, Germany. Flushing-tank. No. 1,030,174; June 18; Sp. p. 4564; Gaz. vol. 179; p. 789.
Hartmann, Karl, Berlin, Germany. Hardening and waterproofing animal skins. No. 1,016,407; Feb. 6; Sp. p. 380; Gaz. vol. 175; p. 60.
Hartmann, Louis H. (See Collins and Hartmann.)
Hartmann, Maschinenfabrik, Rudolf A. (See Sommermeyer, August, assignor.)
Hartmann, Philipp, New York, N. Y. Non-refillable bottle. No. 1,044,173; Nov. 12; Gaz. vol. 184; p. 425.
Hartmann Trunk Company, The. (See Wheary, George H., assignor.)
Hartmann, William C., assignor to Milwaukee Separator Company, Milwaukee, Wis. Starting device for explosive-engines. No. 1,026,314; May 14; Sp. p. 2698; Gaz. vol. 178; p. 451.
Hartness, James, Springfield, Vt. Turning-tool. No. 1,020,493; Mar. 19; Sp. p. 3139; Gaz. vol. 176; p. 566.
Hartness, James, Springfield, Vt. Turning-tool. No. 1,020,494; Mar. 19; Sp. p. 3145; Gaz. vol. 176; p. 566.
Hartness, James, Springfield, Vt. Metal-turning tool. No. 1,020,495; Mar. 19; Sp. p. 3149; Gaz. vol. 176; p. 567.
Hartness, James, Springfield, Vt. Cutter for metal-working tools. No. 1,021,868; Apr. 2; Sp. p. 253; Gaz. vol. 177; p. 41.
Hartness, James, Springfield, Vt. Metal-turning tool. No. 1,036,101; Aug. 20; Gaz. vol. 181; p. 643.
Hartness, James, Springfield, Vt. Chip-controlling means for metal-cutting tools. No. 1,036,102; Aug. 20; Gaz. vol. 181; p. 644.
Hartness, James, Springfield, Vt. Chip-controller for metal-turning tools. No. 1,036,103; Aug. 20; Gaz. vol. 181; p. 644.
Hartness, James, Springfield, Vt. Taper-turning mechanism. No. 1,036,104; Aug. 20; Gaz. vol. 181; p. 644.
Hartness, James, Springfield, Vt. Work-holder for metal-turning machines. No. 1,036,105; Aug. 20; Gaz. vol. 181; p. 645.
Hartness, James, Springfield, Vt. Stop mechanism for metal-working machines. No. 1,036,106; Aug. 20; Gaz. vol. 181; p. 645.
Hartness, James, Springfield, Vt. Telescope. No. 1,045,142; Nov. 26; Gaz. vol. 184; p. 819.
Hartness, William A., assignor of one-half to C. S. Smart, Cooleemee, N. C. Attachment for sewing-machines. No. 1,045,839; Dec. 3; Gaz. vol. 185; p. 15.
Hartnett, Dennis E., New York, N. Y. Exercising device for stringed instruments. No. 1,047,217; Dec. 17; Gaz. vol. 185; p. 562.
Hartney, Frederick, Higginsville, Mo. Safety firing attachment for breech-loading rifles. No. 1,030,087; June 18; Sp. p. 4405; Gaz. vol. 179; p. 760.
Harton, Ira N., Lisbon, N. D. Spring-wheel. No. 1,028,210; June 4; Sp. p. 341; Gaz. vol. 179; p. 46.
Harton, Pembroke D., Philadelphia, Pa. Cake-coating machine. No. 1,036,107; Aug. 20; Gaz. vol. 181; p. 645.
Harton, Pembroke D., Philadelphia, Pa. Machine for icing or coating cakes. No. 1,036,108; Aug. 20; Gaz. vol. 181; p. 646.
Hartsfield, Richmond B., New York, N. Y. Window. No. 1,047,049; Dec. 10; Gaz. vol. 185; p. 471.
Hartshorn, Edmund F., Newark, assignor to Stewart Hartshorn Company, East Newark, N. J. Spear for spring shade-rollers. No. 1,039,938; Oct. 1; Gaz. vol. 183; p. 89.
Hartshorn, Edmund F., Newark, assignor to Stewart Hartshorn Company, East Newark, N. J. Spear for spring shade-rollers. No. 1,039,939; Oct. 1; Gaz. vol. 183; p. 89.
Hartsock, Morgan W., South Bend, and G. Stutzman, Mishawaka, Ind. Motor-starter. No. 1,049,084; Dec. 31; Gaz. vol. 185; p. 1273.
Hartsook, John E., Nevada, Mo. Detachable hub. No. 1,033,170; July 23; Gaz. vol. 180; p. 920.
Hartt, Jennie W. (See Hartt, John C., assignor.)
Hartt, John C., assignor of one-half to J. W. Hartt, East Liverpool, Ohio. Type-writer. No. 1,022,673; Apr. 9; Sp. p. 1948; Gaz. vol. 177; p. 339.
Harttung, Felix C. (See Rumberg and Harttung.)
Hartung, Carl A., Berlin, Germany. Device for measuring fluid. No. 1,027,250; May 21; Sp. p. 4787; Gaz. vol. 178; p. 806.
Hartung, Max, Berlin, Germany. Making artificial stone. No. 1,042,113; Oct. 22; Gaz. vol. 183; p. 926.
Hartung, Oscar W., Detroit, Mich. Stop mechanism for phonographs. No. 1,016,563; Feb. 6; Sp. p. 773; Gaz. vol. 175; p. 114.
Hartwell, Floyd S., and L. C. Sears, Onawa, Iowa. Machine for forming cement tiles. No. 1,036,618; Aug. 27; Gaz. vol. 181; p. 857.
Hartwig, Emil, Jersey City, N. J., assignor to Pomeroy Company, New York, N. Y. Truss. No. 1,034,793; Aug. 6; Gaz. vol. 181; p. 132.
Hartwig-Gesellschaft m. b. H. (See Hartwig, Karl, assignor.)
Hartwig, Herman T., assignor to The Arrow Electric Company, Hartford, Conn. Electric-lamp socket. No. 1,028,719; June 4; Sp. p. 1400; Gaz. vol. 179; p. 217.
Hartwig, Karl, assignor to Hartwig-Gesellschaft m. b. H., Berlin, Germany. Buoyant wearing-apparel, cloth, and other article. No. 1,044,652; Nov. 19; Gaz. vol. 184; p. 621.
Hartwig, Robert, assignor to Thermos-Aktiengesellschaft, Berlin, Germany. Making heat-insulated receptacles. No. 1,029,364; June 11; Sp. p. 2816; Gaz. vol. 179; p. 474.
Hartwig, Robert, assignor to Thermos-Aktiengesellschaft, Berlin, Germany. Heat-insulated receptacle. No. 1,033,771; July 23; Gaz. vol. 180; p. 1116.
Hartz, Joseph F., *et al.* (See Page, Herbert J., assignor.)

Alphabetical list of patentees—Continued.

Hartzell, Herbert C., Los Angeles, Cal. Cutter holder for cutter-heads. No. 1,039,054; Sept. 17; Gaz. vol. 182; p. 701.
Hartzell, Morris H., Philadelphia, Pa. Hat-pin-point protector. No. 1,019,466; Mar. 5; Sp. p. 1060; Gaz. vol. 176; p. 156.
Hartzell, Walter V. (See Morgan and Hartzell.)
Hartzoge, Charles C. (See Day and Hartzoge.)
Harvey, Arthur. (See Jones, Tolbert, assignor.)
Harvey, Frank H., Dorrance, Kans. Self-filling fountain-pen. No. 1,027,127; May 21; Sp. p. 4554; Gaz. vol. 178; p. 765.
Harvey, Harry D. (See Steele, David R., assignor.)
Harvey, Herbert A. (See Poore and Harvey.)
Harvey Hubbell, Incorporated. (See Abbott, Linn B., assignor.)
Harvey Hubbell, Incorporated. (See Hubbell, Harvey, assignor.) (Reissue.)
Harvey Hubbell, Incorporated. (See Klein, Nathan, assignor.)
Harvey, James H., Malvern, Ark. Poultry-house fixture. No. 1,047,050; Dec. 10; Gaz. vol. 185; p. 471.
Harvey, John E., Milton, Mass. Electric heater. No. 1,033,799; July 30; Gaz. vol. 180; p. 1153.
Harvey, John W. (See Sanders, William R., assignor.)
Harvey, Josiah H., Scranton, Pa. Nut-lock. No. 1,013,550; Jan. 2; Sp. p. 1002; Gaz. vol. 174; p. 161.
Harvey, Lindsey, Prentiss, Miss. Combined angle-bar, nut-lock, and rail joint and brace. No. 1,013,488; Jan. 2; Sp. p. 876; Gaz. vol. 174; p. 140.
Harvey, Roy A., Mullan, Idaho. Comb-cleaner. No. 1,038,362; Sept. 10; Gaz. vol. 182; p. 429.
Harvey, Samuel B., Chicago, Ill. Gas-lamp. No. 1,024,199; Apr. 23; Sp. p. 5242; Gaz. vol. 177; p. 918.
Harvey, Silas P., Bigtimber, Mont. Power-hammer. No. 1,045,548; Nov. 26; Gaz. vol. 184; p. 964.
Harvie, Albert A., Ottumwa, Iowa. Carpenter's square. No. 1,049,230; Dec. 31; Gaz. vol. 185; p. 1322.
Harvie, Albert A., Ottumwa, Iowa. Knockdown carpenter's square. No. 1,049,298; Dec. 31; Gaz. vol. 185; p. 1345.
Harvie, Albert A., Ottumwa, Iowa. Knockdown carpenter's square. No. 1,049,299; Dec. 31; Gaz. vol. 185; p. 1345.
Harward, John J., Friendship, Tenn. Open harness-tug. No. 1,017,666; Feb. 20; Sp. p. 3126; Gaz. vol. 175; p. 565.
Harwood, Asa J., assignor to The Richmond Underwear Company, Richmond, Ind. Union undergarment. No. 1,040,319; Oct. 8; Gaz. vol. 183; p. 248.
Hasbrouck, Edwin M., Washington, D. C. Eraser for blackboards, &c. No. 1,034,706; Aug. 6; Gaz. vol. 181; p. 102.
Hasbrouck, Homer B. (See Dieckmann, George P., assignor.)
Hasburg, John W., Chicago, Ill. Paint-package. No. 1,018,824; Feb. 27; Sp. p. 5769; Gaz. vol. 175; p. 996.
Hasburg, John W., Chicago, Ill. Paint-mixing apparatus. No. 1,025,396; May 7; Sp. p. 644; Gaz. vol. 178; p. 101.
Hasburg, John W., Chicago, Ill. Marking gage or tram. No. 1,028,720; June 4; Sp. p. 1401; Gaz. vol. 179; p. 218.
Hasburg, John W., Chicago, Ill. Machine for forming paint or other similar material. No. 1,029,925; June 18; Sp. p. 4063; Gaz. vol. 179; p. 706.
Hasburg, John W., Chicago, Ill. Paint-package. No. 1,029,926; June 18; Sp. p. 4065; Gaz. vol. 179; p. 706.
Haschke, Julius E., assignor to Jewel Electric Co., Chicago, Ill. Boat steering and propelling device. No. 1,021,408; Mar. 26; Sp. p. 5129; Gaz. vol. 176; p. 928.
Haseltine, Richard S. (See Bray, Eustace V., assignor.)
Haskell, Broderick, Franklin, Pa. Making spiral latticed poles or the like. No. 1,013,489; Jan. 2; Sp. p. 877; Gaz. vol. 174; p. 140.
Haskell, Broderick, Franklin, Pa. Machine for making spiral latticed poles or the like. No. 1,013,769; Jan. 2; Sp. p. 1501; Gaz. vol. 174; p. 237.
Haskell, Charles O., Los Angeles, Cal., assignor to E. A. Strause, Chicago, Ill. Electric water-heater. No. 1,045,975; Dec. 3; Gaz. vol. 185; p. 61.
Haskell, George H., assignor to J. E. Bolles Iron & Wire Works, Detroit, Mich. Spiral stairway. No. 1,031,645; July 2; Gaz. vol. 180; p. 276.
Haskell, Henry A., Braintree, Mass. Clamp. No. 1,047,519; Dec. 17; Gaz. vol. 185; p. 670.
Haskell, Henry L., Ludington, Mich. Figure toy. No. 1,026,861; May 21; Sp. p. 3891; Gaz. vol. 178; p. 672.
Haskell, Herbert R., Oakland, Cal. Animal feed-bag. No. 1,049,231; Dec. 31; Gaz. vol. 185; p. 1322.
Haskell, Luther D., Essex, assignor to A. R. MacKusick, Boston, Mass. Bowling-alley. No. 1,026,949; May 21; Sp. p. 4131; Gaz. vol. 178; p. 704.
Haskell, Margaret M., Salem, Mass. Lemon-squeezer. No. 1,046,590; Dec. 10; Gaz. vol. 185; p. 315.
Haskell, Walter F., Westbrook, Me. Warp-dyeing machine. No. 1,029,866; June 18; Sp. p. 3930; Gaz. vol. 179; p. 684.
Haskett, Thomas E. (See Gage and Haskett.)
Haskin, Ernest S. (See Gray and Haskin.)
Haskin, Joseph J., Tucson, Ariz. Oil-burner. No. 1,029,927; June 18; Sp. p. 4067; Gaz. vol. 179; p. 706.
Haskins, Caryl D., deceased; F. J. Haskins, executrix, Schenectady, N. Y., assignor to General Electric Company. Electric pile-driver. No. 1,022,586; Apr. 9; Sp. p. 1754; Gaz. vol. 177; p. 309.
Haskins, Frances J., executrix. (See Haskins, Caryl D.)
Haskins, Milo J., Springfield, Mass. Tool-handle. No. 1,037,759; Sept. 3; Gaz. vol. 182; p. 195.
Haskins, Uri, Ontario, Cal. Shaft-coupling. No. 1,031,927; July 9; Gaz. vol. 180; p. 417.
Hasl-Coe Construction Company. (See Hassell, Alexander W., assignor.)
Haslett, Charles H., and A. A. Mentzer, Pittsburgh, Pa. Mold-coating. No. 1,021,599; Mar. 26; Sp. p. 5526; Gaz. vol. 176; p. 992.
Haslett, John D. S., Philadelphia, Pa. Cartridge. No. 1,023,469; Apr. 16; Sp. p. 3654; Gaz. vol. 177; p. 648.
Haslinger, Anthony. (See Haslinger, John B. and A.)
Haslinger, John B. and A., Fremont, Ohio. Windmill. No. 1,036,109; Aug. 20; Gaz. vol. 181; p. 646.
Hassard, Harland D., Nile, N. Y. Umbrella-hanger. No. 1,044,519; Nov. 19; Gaz. vol. 184; p. 574.
Hassel, Gustav A. (See Allison and Hassel.)
Hasselblad, Carl H., Stockholm, Sweden. Artificial sausage-skin and producing it. No. 1,036,839; Aug. 27; Gaz. vol. 181; p. 930.
Hasselkus, John W., assignor to Ross Limited, Clapham Common, London, England. Periscope and the like. No. 1,047,051; Dec. 10; Gaz. vol. 185; p. 472.
Hassell, Alexander W., Jersey City, N. J., assignor, by mesne assignments, of one-half to Hasl-Coe Construction Company. Subaqueous rock-breaker. No. 1,018,050; Feb. 20; Sp. p. 4040; Gaz. vol. 175; p. 699.
Hassey, T. H. (See Bolick, David D., assignor.)
Hassler, Anton, Oakland, Cal. Boring-machine. No. 1,032,002; July 9; Gaz. vol. 180; p. 441.
Hassmann, Carl G., assignor to Mills Novelty Company, Chicago, Ill. Vending-machine. No. 1,028,458; June 4; Sp. p. 872; Gaz. vol. 179; p. 131.
Hastings, Benjamin, Barberton, Ohio. Engine for rock-drills. No. 1,015,798; Jan. 30; Sp. p. 5959; Gaz. vol. 174; p. 1043.
Hastings, Frederick D., *et al.* (See Hastings, Glover S., assignor.)
Hastings, Glover S., assignor of one-third to F. D. Hastings, Plainville, and one-third to L. M. Schmidt, New Britain, Conn. Pocket-knife. No. 1,035,786; Aug. 13; Gaz. vol. 181; p. 498.
Hastings, Hammond C., and W. L. Wise, Rugby, England, assignors to General Electric Company. Controller for electric circuits. No. 1,019,467; Mar. 5; Sp. p. 1061; Gaz. vol. 176; p. 156.
Hastings, Herbert, Rochester, N. Y. Fluid-gage. No. 1,039,280; Sept. 24; Gaz. vol. 182; p. 799.
Hastings, James H., Yokohama, Japan. Printing-machine. No. 1,045,787; Nov. 26; Gaz. vol. 184; p. 1046.
Hastings, Kenneth B., assignor to Globe Ear-Phone Company, Boston, Mass. Audiphone rheostat and switch. No. 1,018,356; Feb. 20; Sp. p. 4665; Gaz. vol. 175; p. 802.
Hastings, Ralph V., Chicago, Ill. Tire-protector. No. 1,019,468; Mar. 5; Sp. p. 1063; Gaz. vol. 176; p. 156.
Hasty, Charles E., assignor to Hasty Manufacturing Company, Elgin, Ill. Automatically-operable pressure-regulating valve and mechanism therefor. No. 1,026,262; May 14; Sp. p. 2583; Gaz. vol. 178; p. 433.
Hasty Manufacturing Company. (See Hasty, Charles E., assignor.)
Hatch, Chauncy R. (See Hoffmann, Otto C., assignor.)
Hatch, Frank R., Haverhill, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Bobbin-holding device. No. 1,015,023; Jan. 16; Sp. p. 4309; Gaz. vol. 174; p. 725.
Hatch, Freeman C., Springfield, Mass. Burglar-alarm. No. 1,039,126; Sept. 24; Gaz. vol. 182; p. 743.
Hatch, John O., Chicago, Ill. Door. No. 1,044,383; Nov. 12; Gaz. vol. 184; p. 497.
Hatch, Joseph I., assignor of one-half to G. H. Simmerman, Philadelphia, Pa. Abrasive member. No. 1,032,602; July 16; Gaz. vol. 180; p. 688.
Hatcher, Albert A., Beckley, W. Va. Windlass water-elevator and brake mechanism. No. 1,036,110; Aug. 20; Gaz. vol. 181; p. 646.
Hatcher, Edmund N., Zanesville, Ohio. Mausoleum interment-crypt. No. 1,028,111; June 4; Sp. p. 37; Gaz. vol. 179; p. 10.
Hatcher, Henry L. (See Fox and Hatcher.)
Hatchett, Roy R., Los Angeles, Cal. Excavator. No. 1,047,804; Dec. 17; Gaz. vol. 185; p. 769.
Hatfield, Henry S., assignor to Schott & Gen., Jena, Germany. Electrolytic meter. No. 1,048,156; Dec. 24; Gaz. vol. 185; p. 916.
Hatfield, John B. (See Neel and Hatfield.)
Hatfield, Schuyler C., assignor of one-half to G. W. Smith, Baltimore, Md. Vehicle-wheel. No. 1,049,300; Dec. 31; Gaz. vol. 185; p. 1346.
Hathaway, Charles O., and F. W. Huffaker, Big Timber, Mont. Trace-fastener. No. 1,014,000; Jan. 9; Sp. p. 2041; Gaz. vol. 174; p. 344.
Hathaway, Charles O., and F. W. Huffaker, Big Timber, Mont. Sickle-sharpener. No. 1,018,051; Feb. 20; Sp. p. 4043; Gaz. vol. 175; p. 699.

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Hathaway, Glenn R., Detroit, Mich. Rifle-sight. No. 1,032,899; July 16; Gaz. vol. 180; p. 790.
Hathaway, Horace K. (See Tabor and Hathaway.)
Hathaway, Marion, Pasadena, Cal. Piano-bench. No. 1,034,443; Aug. 6; Gaz. vol. 181; p. 15.
Hathcock, Alius G., San Francisco, Cal. Rotary internal-combustion engine. No. 1,014,596; Jan. 9; Sp. p. 3279; Gaz. vol. 174; p. 546.
Hathcock, Alius G., assignor to Hathcock Mechanical Device Company, San Francisco, Cal. Gaseous-fuel mixer. No. 1,014,391; Jan. 9; Sp. p. 2902; Gaz. vol. 174; p. 480.
Hathcock Mechanical Device Company. (See Hathcock, Alius G., assignor.)
Hatler, William K., Philadelphia, Pa. Collar-shaping machine. No. 1,047,218; Dec. 17; Gaz. vol. 185; p. 562.
Hatmaker, James R., Paris, France. Preserving animal tissues and the products obtained thereby. No. 1,027,128; May 21; Sp. p. 4555; Gaz. vol. 178; p. 765.
Hatsel, George L., *et al.* (See Henning, John, assignor.)
Hatt, Joseph A. H., Brooklyn, N. Y. Color-filter. No. 1,013,937; Jan. 9; Sp. p. 1898; Gaz. vol. 174; p. 323.
Hattan, Joseph F., Marion, Ind. Safety-tip for hat-pins. No. 1,049,324; Dec. 31; Gaz. vol. 185; p. 1354.
Hattemer, Justus. (See Davis and Hattemer.)
Hatton, Delbert M., Burnetts Creek, Ind. Pipe-reamer. No. 1,038,881; Sept. 17; Gaz. vol. 182; p. 647.
Hatton, Joseph E., and J. P. Sala, Habana, Cuba. Centrifugal separation. No. 1,025,059; Apr. 30; Sp. p. 7102; Gaz. vol. 177; p. 1248.
Hatz, George J., Omaha, Nebr. Locomotive. No. 1,044,520; Nov. 19; Gaz. vol. 184; p. 574.
Hauberg, John K., Cando, N. D. Metal-rolling machine. No. 1,045,022; Nov. 19; Gaz. vol. 184; p. 749.
Haubner, Louis, London, England. Rotary internal-combustion engine. No. 1,043,589; Nov. 5; Gaz. vol. 184; p. 194.
Hauck, Louise S., Bayside, N. Y. Portable wardrobe. No. 1,043,590; Nov. 5; Gaz. vol. 184; p. 194.
Hauff, Fritz. (See Schweitzer and Hauff.)
Haugh, Philip E., Millvale, Pa. Shock-absorber. No. 1,034,231; July 30; Gaz. vol. 180; p. 1306.
Haughton, Frank A., High Bridge, N. J. Making manganese-steel stamp-shoes. No. 1,033,800; July 30; Gaz. vol. 180; p. 1154.
Hauk, Joseph, Jr., Waukegan, assignor to Twentieth Century Machinery Company, Chicago, Ill. Bottle sterilizing and cleansing apparatus. No. 1,030,887; July 2; Gaz. vol. 180; p. 13.
Hauk, Joseph, Jr., assignor to Twentieth Century Machinery Company, Incorporated, Milwaukee, Wis. Sterilizing apparatus. No. 1,037,247; Sept. 3; Gaz. vol. 182; p. 24.
Hauke, Charles R., Rossford, Idaho. Engineer's slope-rod. No. 1,026,579; May 14; Sp. p. 3255; Gaz. vol. 178; p. 538.
Haultain, Herbert E. T., Toronto, Ontario, Canada. Electrolytic apparatus. No. 1,018,901; Feb. 27; Sp. p. 5923; Gaz. vol. 175; p. 1020.
Haultain, Herbert E. T., Toronto, Ontario, Canada. Weight-recording mechanism. No. 1,029,119; June 11; Sp. p. 2278; Gaz. vol. 179; p. 389.
Haultain, Herbert E. T., Toronto, Ontario, Canada. Registering weighing apparatus. No. 1,029,120; June 11; Sp. p. 2280; Gaz. vol. 179; p. 389.
Haultain, Herbert E. T., Toronto, Ontario, Canada, and E. S. Wiard, Denver, Colo. Weighing apparatus. No. 1,038,363; Sept. 10; Gaz. vol. 182; p. 429.
Haulton, Thomas, Belle Vernon, Pa. Hub-attacher. No. 1,047,805; Dec. 17; Gaz. vol. 185; p. 769.
Haun, Harry M., Ethanac, Cal. Ball-bearing door-hanger. No. 1,045,284; Nov. 26; Gaz. vol. 184; p. 869.
Haunsperger, Simon. (See Wahlstrom and Haunsperger.)
Haupenthal, Joseph R., Binghamton, N. Y. Shoe-block leveler. No. 1,036,619; Aug. 27; Gaz. vol. 181; p. 858.
Haupt, Ernst, Naumburg-on-the-Saale, Germany. Tooth-pick-making machine. No. 1,041,075; Oct. 15; Gaz. vol. 183; p. 540.
Hauquitz, John F., Idaho Springs, Colo. Shim. No. 1,033,397; July 23; Gaz. vol. 180; p. 997.
Hausch, Firm of Moriz. (See Olpp, Josef, assignor.)
Hausdörfer, Arthur, Elberfeld, and C. Heidenreich, Leverkusen, near Cologne, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Green triphenylmethane dye. No. 1,021,364; Mar. 26; Sp. p. 4995; Gaz. vol. 176; p. 912.
Hausdörfer, Arthur, Elberfeld, and C. Heidenreich, Leverkusen, near Cologne, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Yellow-green triphenylmethane dye. No. 1,021,365; Mar. 26; Sp. p. 4996; Gaz. vol. 176; p. 912.
Hausdörfer, Arthur, Elberfeld, and C. Heidenreich, Leverkusen, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Triphenylmethane dye. No. 1,021,366; Mar. 26; Sp. p. 4997; Gaz. vol. 176; p. 912.
Hausdörfer, Arthur, Elberfeld, and C. Heidenreich, Leverkusen, near Cologne, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Dye of the triphenylmethane series. No. 1,026,089; May 14; Sp. p. 2215; Gaz. vol. 178; p. 374.
Hauser, L. A. (See McLarty, Leonard L., assignor.)
Hauser, Martin, Richmond Hill, N. Y. Safety-razor. No. 1,024,570; Apr. 30; Sp. p. 6104; Gaz. vol. 177; p. 1080.
Hauser, Siegfried, Strassburg, Germany. Shelf-frame. No. 1,034,365; July 30; Gaz. vol. 180; p. 1353.
Hausheer, Bernard, Norwich, assignor to Borden's Condensed Milk Company, New York, N. Y. Can-manipulating machine. No. 1,030,300; June 25; Sp. p. 4869; Gaz. vol. 179; p. 871.
Hausler, Simon, San Francisco, Cal. Music-leaf turner. No. 1,026,950; May 21; Sp. p. 4133; Gaz. vol. 178; p. 704.
Hausman, Ward B., Philadelphia, Pa. Moving-picture machine. No. 1,041,784; Oct. 22; Gaz. vol. 183; p. 815.
Hausmann, Bernard, San Francisco, Cal. Casement-window. No. 1,026,161; May 14; Sp. p. 2361; Gaz. vol. 178; p. 399.
Hauss, Albert F., Aurora, Ind. Expression-controlling mechanism for music-players. No. 1,046,184; Dec. 3; Gaz. vol. 185; p. 132.
Haussler, Louis, *et al.* (See Thomas, Frank M., assignor.)
Haustetter, Louis A., Chicago, Ill. Dish-washing machine. No. 1,029,541; June 11; Sp. p. 3181; Gaz. vol. 179; p. 534.
Hauswirth, Frederick, St. Louis, Mo. Steam-condenser. No. 1,021,775; Apr. 2; Sp. p. 39; Gaz. vol. 177; p. 10.
Havard, Albert H., Urbana, Ill. Dirt-receptacle. No. 1,020,349; Mar. 12; Sp. p. 2834; Gaz. vol. 176; p. 480.
Havard, Oliver D., Scranton, Pa. Device for measuring granular material. No. 1,040,537; Oct. 8; Gaz. vol. 183; p. 323.
Havemeyer, John F., Ardsley-on-Hudson, N. Y. Reinforcing means for composite structures. No. 1,023,149; Apr. 16; Sp. p. 3017; Gaz. vol. 177; p. 542.
Haven, Alonzo, assignor, by mesne assignments, of one-half to J. E. Barnett, Bristow, Okla. Animal-poke. No. 1,031,551; July 2; Gaz. vol. 180; p. 244.
Havener, Arthur R., Waltham, Mass., assignor to Judson L. Thomson M'fg Co. Machine for setting rivets. No. 1,016,940; Feb. 13; Sp. p. 1574; Gaz. vol. 175; p. 278.
Havener, Arthur R., Waltham, Mass., assignor to Judson L. Thomson Mfg. Co. Multiple rivet-setting machine. No. 1,018,761; Feb. 27; Sp. p. 5634; Gaz. vol. 175; p. 974.
Havener, Arthur R., Waltham, Mass., assignor to American Lacing Hook Co. Machine for punching and feeding sheet material. No. 1,019,005; Feb. 27; Sp. p. 6157; Gaz. vol. 175; p. 1057.
Havener, Arthur R., Waltham, Mass., assignor to Judson L. Thomson M'f'g Co. Multiple-rivet-setting machine. No. 1,021,869; Apr. 2; Sp. p. 256; Gaz. vol. 177; p. 41.
Havener, Arthur R., Waltham, Mass., assignor to Judson L. Thomson M'fg Co. Trunk-riveting machine. No. 1,031,260; July 2; Gaz. vol. 180; p. 145.
Havener, Arthur R., Waltham, Mass., assignor to American Lacing Hook Co. Mechanism for transmitting motion. No. 1,032,479; July 16; Gaz. vol. 180; p. 647.
Havens, Amos M., Lowell, Mich. Combined clevis and clip. No. 1,022,941; Apr. 9; Sp. p. 2554; Gaz. vol. 177; p. 433.
Havens, Franke S. (See Schanche and Havens.)
Havens, Morton, Jr., Albany, N. Y. Branch box. No. 1,014,704; Jan. 16; Sp. p. 3592; Gaz. vol. 174; p. 615.
Havens, Morton, Jr., Albany, N. Y. Conduit-fitting. No. 1,044,521; Nov. 19; Gaz. vol. 184; p. 575.
Haverhill Shoe Machinery Co. (See Webster, Edwin A., assignor.)
Haverhill Shoe Machine Company. (See Pettengill, George M., assignor.)
Haverkamp, Ernst, *et al.* (See Suhr, Emil, assignor.)
Haverly, Elmer J., Sayre, Pa. Pressure-gage. No. 1,043,591; Nov. 5; Gaz. vol. 184; p. 194.
Haviland, Edward C., assignor to Van Kannel Revolving Door Company, New York, N. Y. Motor-gearing for revolving doors. No. 1,015,491; Jan. 23; Sp. p. 5311; Gaz. vol. 174; p. 910.
Haw, Patrick M., Chicago, Ill. Clothes-dampener. No. 1,036,840; Aug. 27; Gaz. vol. 181; p. 930.
Hawe, Matthew, Pelham Manor, N. Y. Driving-belt. No. 1,020,496; Mar. 19; Sp. p. 3153; Gaz. vol. 176; p. 567.
Hawes, Frank T., *et al.* (See Anglus, Frank C., assignor.)
Hawes, George E., Bridgeport, Conn. Corset-stay. No. 1,022,364; Apr. 2; Sp. p. 1274; Gaz. vol. 177; p. 205.
Hawes, Herbert E., New York, N. Y. Aerial propeller. No. 1,046,385; Dec. 3; Gaz. vol. 185; p. 204.
Hawes, Ithamar C., Sherman, Conn. Nut-lock. No. 1,016,146; Jan. 30; Sp. p. 6696; Gaz. vol. 174; p. 1164.
Hawes, Joel D., assignor to Waterloo Threshing Machine Company, Waterloo, Iowa. Band-cutter and feeder. No. 1,038,747; Sept. 17; Gaz. vol. 182; p. 600.
Hawk, Franklin A., Central Point, Oreg. Metallic clothes-pin. No. 1,041,785; Oct. 22; Gaz. vol. 183; p. 815.
Hawk, Hale E., Greenville, Miss. Delinting apparatus. No. 1,041,468; Oct. 15; Gaz. vol. 183; p. 672.
Hawkes, Frederic W., New York, N. Y. Work-box. No. 1,014,060; Jan. 9; Sp. p. 2174; Gaz. vol. 174; p. 364.

Alphabetical list of patentees—Continued.

Hawkes, William W., assignor to The Charles Wing Company, Amesbury, Mass. Spring. No. 1,020,350; Mar. 12; Sp. p. 2836; Gaz. vol. 176; p. 480.
Hawkins, Alda F., Dallas, Tex., assignor to The Searchlight Gas Company, Warren, Ohio. Hydraulic fluid-compressor. No. 1,027,386; May 21; Sp. p. 5072; Gaz. vol. 178; p. 853.
Hawkins, Charles A. B. P., and B. Ogilvie, Napier, assignors of one-fifth to C. J. Nairn, Pourerere, Hawkes Bay, New Zealand. Aeroplane. No. 1,035,701; Aug. 13; Gaz. vol. 181; p. 469.
Hawkins, Francis F., Troy, N. Y. Flushing device. No. 1,014,301; Jan. 9; Sp. p. 2686; Gaz. vol. 174; p. 448.
Hawkins, John K., Mohawk, Tenn. Acetylene-gas generator. No. 1,047,219; Dec. 17; Gaz. vol. 185; p. 563.
Hawkins, John W., Portland, Oreg. Joint-fastening. No. 1,030,088; June 18; Sp. p. 4407; Gaz. vol. 179; p. 761.
Hawkins, Joseph W., Passaic, N. J. Tube. No. 1,031,790; July 9; Gaz. vol. 180; p. 369.
Hawkins, Laurence A., Schenectady, N. Y., assignor to General Electric Company. Automatic sectionalizing device. No. 1,023,377; Apr. 16; Sp. p. 3469; Gaz. vol. 177; p. 619.
Hawkins, Laurence A., Schenectady, N. Y., assignor, by mesne assignments, to Union Switch and Signal Company. Block-signal system. No. 1,027,046; May 21; Sp. p. 4346; Gaz. vol. 178; p. 737.
Hawkins, Laurence A., Schenectady, N. Y., assignor, by mesne assignments, to Union Switch and Signal Company. Automatic train-stop. No. 1,027,047; May 21; Sp. p. 4348; Gaz. vol. 178; p. 738.
Hawkins, Laurence A., Schenectady, N. Y., assignor, by mesne assignments, to Union Switch and Signal Company. Electric motor. No. 1,027,048; May 21; Sp. p. 4350; Gaz. vol. 178; p. 738.
Hawkins, Laurence A., Schenectady, N. Y., assignor, by mesne assignments, to The Union Switch and Signal Company. Block-signal system. No. 1,038,364; Sept. 10; Gaz. vol. 182; p. 430.
Hawkins, Laurence A., Schenectady, N. Y., assignor, by mesne assignments, to The Union Switch and Signal Company. Indicator. No. 1,038,365; Sept. 10; Gaz. vol. 182; p. 431.
Hawkins-Masters, Arthur, London, Ontario, Canada. Wheel for vehicles. No. 1,039,772; Oct. 1; Gaz. vol. 183; p. 35.
Hawkins, Randolph W., St. Louis, Mo. Non-refillable bottle. No. 1,038,366; Sept. 10; Gaz. vol. 182; p. 431.
Hawkins, William W., Cleveland, Ohio. Party-line telephone system. No. 1,030,089; June 18; Sp. p. 4409; Gaz. vol. 179; p. 761.
Hawks, Edith J. (See Hawks, Henry S., assignor.)
Hawks, Henry S., assignor to E. J. Hawks, Colorado Springs, Colo. Flushing-tank. No. 1,045,788; Nov. 26; Gaz. vol. 184; p. 1047.
Hawks, Moses L., New York, N. Y. Gyroscopic top. No. 1,022,236; Apr. 2; Sp. p. 1030; Gaz. vol. 177; p. 164.
Hawksley, Arthur F., Fairhaven, England. Resilient wheel. No. 1,044,522; Nov. 19; Gaz. vol. 184; p. 575.
Hawley, Edwin H., Washington, D. C. Sound-producing instrument. No. 1,014,302; Jan. 9; Sp. p. 2689; Gaz. vol. 174; p. 449.
Hawley, Eugene W., Philadelphia, Pa. Garment-supporter for wardrobe-trunks. No. 1,014,392; Jan. 9; Sp. p. 2904; Gaz. vol. 174; p. 481.
Hawley, Eugene W., Philadelphia, Pa. Wardrobe-trunk. No. 1,017,755; Feb. 20; Sp. p. 3321; Gaz. vol. 175; p. 594.
Hawley, Frederick R., Syracuse, N. Y. Bark-rossing machine. No. 1,043,829; Nov. 12; Gaz. vol. 184; p. 306.
Hawley, Joel E., Kansas City, Mo. Music-lyre. No. 1,041,277; Oct. 15; Gaz. vol. 183; p. 609.
Hawley, Kent A., assignor to Simmen Automatic Railway Signal Company, Los Angeles, Cal. Electric signaling system. No. 1,036,620; Aug. 27; Gaz. vol. 181; p. 858.
Hawley, W. P. (See Fuller, Frederick H., assignor.)
Hawley, Walter L., Cartersville, Mont. Concentrator. No. 1,032,281; July 9; Gaz. vol. 180; p. 537.
Haworth, Charles M., Maricopa, Cal. Window-screen insect-escape. No. 1,018,188; Feb. 20; Sp. p. 4354; Gaz. vol. 175; p. 747.
Haws, William H., Johnstown, Pa. Metallic railway-tie. No. 1,045,285; Nov. 26; Gaz. vol. 184; p. 869.
Haws, William H., assignor of one-eighth to H. Wagner and one-eighth to J. E. Rager, Johnstown, Pa. Metallic railway-tie. No. 1,018,491; Feb. 27; Sp. p. 5010; Gaz. vol. 175; p. 881.
Hawthorne, Herbert J., G. B. Wyatt, and O. P. Warner, Cleveland, Ohio; said Warner assignor to R. H. Reynolds, Milwaukee, Wis. Air-pump. No. 1,021,310; Mar. 26; Sp. p. 4886; Gaz. vol. 176; p. 892.
Hawthorne, Howard, Philadelphia, Pa., assignor of one-half to W. W. Evans, Hamilton, Va. Track-sanding mechanism for trolley-cars and locomotives. No. 1,029,682; June 18; Sp. p. 3499; Gaz. vol. 179; p. 620.
Hawthorne Manufacturing Company. (See George, John H., assignor.)
Hawthorne Manufacturing Company, The. (See Madden, Edward J., assignor.)
Hawthorne, William E., assignor to Daisy Manufacturing Company, Plymouth, Mich. Target. No. 1,032,060; July 9; Gaz. vol. 180; p. 460.
Hawver, Charles B., Syracuse, N. Y. Window-shelf. No. 1,037,904; Sept. 10; Gaz. vol. 182; p. 277.
Haxby, R. V. L., *et al.*, administrators. (See Ozias, Albert N.)
Haxton, Hosea, Starford, Pa. Rat-trap. No. 1,031,442; July 2; Gaz. vol. 180; p. 207.
Hay, Alexander M. (See Neil, James M., assignor.)
Hay, David. (See Hay, Rule, and Hay.)
Hay, Eldred G., Lyndhurst, S. C. Mailing-tube. No. 1,032,282; July 9; Gaz. vol. 180; p. 537.
Hay, John, Junction City, Kans. Turbine water-wheel. No. 1,023,378; Apr. 16; Sp. p. 3473; Gaz. vol. 177; p. 620.
Hay, John, Junction City, Kans. Turbine water-wheel. No. 1,026,580; May 14; Sp. p. 3257; Gaz. vol. 178; p. 538.
Hay, John B., Youngstown, Ohio. Canvas belting. No. 1,022,080; Apr. 2; Sp. p. 694; Gaz. vol. 177; p. 111.
Hay, John T., Darke county, Ohio. Pocket folding chair. No. 1,035,823; Aug. 13; Gaz. vol. 181; p. 511.
Hay, John T., Darke county, Ohio. Pocket telescoping chair. No. 1,035,824; Aug. 13; Gaz. vol. 181; p. 511.
Hay, Robert, P. B. Rule, and D. Hay, Mount Pleasant township, Westmoreland county, Pa. Coke-sprinkling apparatus. No. 1,020,979; Mar. 26; Sp. p. 4208; Gaz. vol. 176; p. 782.
Hay, Soren P., Spokane, Wash. Milk-condenser. No. 1,042,912; Oct. 29; Gaz. vol. 183; p. 1228.
Hay, William S., assignor to Davol Rubber Company, Providence, R. I. Atomizer. No. 1,032,333; July 9; Gaz. vol. 180; p. 553.
Hayden, Arthur C., Brockton, Mass. Razor stropper and honer. No. 1,022,549; Apr. 9; Sp. p. 1675; Gaz. vol. 177; p. 297.
Hayden, Benjamin F., St. Louis, Mo. Stovepipe. No. 1,045,400; Nov. 26; Gaz. vol. 184; p. 908.
Hayden, Frank, and S. J. Bell, Otsego, Ohio. Measuring-machine. No. 1,044,384; Nov. 12; Gaz. vol. 184; p. 497.
Hayden, George W., assignor to The Pratt & Cady Company, Hartford, Conn. Hydrant. No. 1,038,748; Sept. 17; Gaz. vol. 182; p. 601.
Hayden, Jefferson B., San Angelo, Tex. Vehicle-wheel. No. 1,043,828; Nov. 12; Gaz. vol. 184; p. 306.
Hayden, Joseph L., Schenectady, N. Y., assignor to General Electric Company. Process and apparatus for producing chemical reactions. No. 1,046,421; Dec. 3; Gaz. vol. 185; p. 218.
Hayden, Joseph L., Schenectady, N. Y., assignor to General Electric Company. Lava vapor-tube. No. 1,047,520; Dec. 17; Gaz. vol. 185; p. 670.
Hayden, Joseph L. R., Schenectady, N. Y., assignor to General Electric Company. High-voltage-current rectification. No. 1,032,900; July 16; Gaz. vol. 180; p. 790.
Hayden, Joseph L. R., Schenectady, N. Y., assignor to General Electric Company. Vapor-rectifier and manufacture of same. No. 1,041,076; Oct. 15; Gaz. vol. 183; p. 541.
Hayden, Levi C. (See Graham, David P., assignor.)
Hayden, Lothrop A., Carver, Mass. Cranberry-grader. No. 1,021,311; Mar. 26; Sp. p. 4887; Gaz. vol. 176; p. 893.
Hayes, Arthur W., and C. D. Stevens, San Antonio, Tex., assignors, by mesne assignments, to said C. D. Stevens, Chicago, Ill. Collector's receipting-recorder. No. 1,041,624; Oct. 15; Gaz. vol. 183; p. 721.
Hayes, Calvin Q., St. Paul, Minn. Rotary engine. No. 1,043,697; Nov. 5; Gaz. vol. 184; p. 230.
Hayes, Edgar O., Milwaukee, Wis. Internal-combustion engine. No. 1,037,478; Sept. 3; Gaz. vol. 182; p. 103.
Hayes, Fay C., Altamont, N. Y. Portable hot-water system. No. 1,037,905; Sept. 10; Gaz. vol. 182; p. 278.
Hayes, Forrest G., Sharon, Pa. Swivel-joint. No. 1,034,232; July 30; Gaz. vol. 180; p. 1307.
Hayes, Frank, Superior, Wis. Winding mechanism. No. 1,034,012; July 30; Gaz. vol. 180; p. 1231.
Hayes, Frank, Superior, Wis. Dock-hoist. No. 1,048,157; Dec. 24; Gaz. vol. 185; p. 916.
Hayes, Frank C., Peace Dale, R. I. Guard-plate for shearing-machine cutters. No. 1,049,232; Dec. 31; Gaz. vol. 185; p. 1322.
Hayes, Frederick C., Battle Creek, Mich. Starting device for explosion-engines. No. 1,039,127; Sept. 24; Gaz. vol. 182; p. 743.
Hayes, George H., Chicago, Ill., assignor to Chicago Pneumatic Tool Company. Pneumatic drill or like machine. (Reissue.) No. 13,410; Apr. 30; Sp. p. 7234; Gaz. vol. 177; p. 1268.
Hayes, Jerry J., Elkhart, Ind. Change-speed gearing. No. 1,020,418; Mar. 19; Sp. p. 2987; Gaz. vol. 176; p. 541.
Hayes, John P., Pittsburgh, Pa. Electric controller. No. 1,017,413; Feb. 13; Sp. p. 2614; Gaz. vol. 175; p. 443.
Hayes, Lewis A. (See McIlveene and Hayes.)
Hayes, Mary A., La Crosse, Wis. Cooking utensil. No. 1,022,237; Apr. 2; Sp. p. 1033; Gaz. vol. 177; p. 165.

Alphabetical list of patentees—Continued.

Hayes, Michael F., Boston, Mass. Mattress-turning apparatus. No. 1,018,825; Feb. 27; Sp. p. 5770; Gaz. vol. 175; p. 996.
Hayes, Robert D., New Haven, assignor to W. B. McCarthy, Milford, Conn. Head for polo-clubs. No. 1,026,581; May 14; Sp. p. 3260; Gaz. vol. 178; p. 539.
Hayes, Stephen Q. (See Moss and Hayes.)
Hayes, William A., Philadelphia, Pa. Knife-sharpener. No. 1,034,794; Aug. 6; Gaz. vol. 181; p. 132.
Haygood, George B., New Orleans, La. Bag-holder. No. 1,043,592; Nov. 5; Gaz. vol. 184; p. 195.
Hayhurst, Colbert G., Brooklyn, assignor of one-third to G. L. Clark, Hudson, N. Y. Feed-bag holder. No. 1,017,542; Feb. 13; Sp. p. 2886; Gaz. vol. 175; p. 487.
Haymaker, F. B. (See McQuaid, William W., assignor.)
Haymaker, James G., Minerva, Ohio. Hose-coupling. No. 1,016,744; Feb. 6; Sp. p. 1144; Gaz. vol. 175; p. 176.
Hayner, Charles T. (See Langton, Edward A., assignor.)
Hayner, William H., Fort Wayne, Ind. Ammonia-compressor. No. 1,032,603; July 16; Gaz. vol. 180; p. 688.
Haynes, Charles M., Chillicothe, Ohio. Repair device for eyeglasses and spectacles. No. 1,027,417; May 28; Sp. p. 5140; Gaz. vol. 178; p. 902.
Haynes, Charles M., Newark, N. J., assignor of one-half to J. O'Neil, New York, N. Y. Hanging scaffold. No. 1,031,646; July 2; Gaz. vol. 180; p. 276.
Haynes, John F., Roswell, N. Mex. Cooking vessel. No. 1,034,233; July 30; Gaz. vol. 180; p. 1307.
Haynes, William T., East Atlanta, Ga. Milk-turner. No. 1,023,737; Apr. 16; Sp. p. 4165; Gaz. vol. 177; p. 731.
Haynie, Amzi F. (See Lance, Andrew M., assignor.)
Hays, Athol B., assignor of one-half to F. A. Hays, Wolf Butte, N. D. Lever-harrow. No. 1,026,394; May 14; Sp. p. 2881; Gaz. vol. 178; p. 478.
Hays, Caswell V., Dillon, S. C. Chicken-coop. No. 1,039,532; Sept. 24; Gaz. vol. 182; p. 887.
Hays, Charles O. (See Knause, John, assignor.)
Hays, Frank A. (See Hays, Athol B., assignor.)
Hays, Franklin B. (See Dinkins and Hays.)
Hays, Harold M., New York, and W. R. Rosenbaum, Rochester, N. Y., assignors, by mesne assignments, to Frank S. Betz Company, Hammond, Ind. Head-lamp. No. 1,019,895; Mar. 12; Sp. p. 1908; Gaz. vol. 176; p. 332.
Hays, James T. and T. C., Emmitsburg, Md. Acetylene-gas generator. No. 1,026,507; May 14; Sp. p. 3121; Gaz. vol. 178; p. 515.
Hays, James W., Baltimore, Md. Motor for bicycles and various kinds of vehicles. No. 1,019,637; Mar. 5; Sp. p. 1393; Gaz. vol. 176; p. 213.
Hays, John, Uniontown, Pa. Mechanical movement. No. 1,039,390; Sept. 24; Gaz. vol. 182; p. 837.
Hays, Omer L., Kimbro, S. D. Hay-rack. No. 1,031,068; July 2; Gaz. vol. 180; p. 79.
Hays, Thomas C. (See Hays, James T. and T. C.)
Hays, Trenton T., Sunnyside, Ky. Lifting device. No. 1,029,683; June 18; Sp. p. 3502; Gaz. vol. 179; p: 620.
Hays, William H. (See Zabel, William, assignor.)
Haysom, William R. (See Gillmor and Haysom.)
Hayssen, Arthur H. (See Hayssen, Herman and A. H.)
Hayssen, Herman and A. H., Sheboygan, Wis. Dough weighing and dividing machine. No. 1,041,278; Oct. 15; Gaz. vol. 183; p. 610.
Haythorpe, Charles, Kennington, London, England. Mechanical method of treatment of feed-water to boilers for prevention of incrustation, corrosion, or pitting. No. 1,022,365; Apr. 2; Sp. p. 1276; Gaz. vol. 177; p. 205.
Hayton, Thomas R., Hannibal, Mo. Centrifugal pump. No. 1,022,478; Apr. 9; Sp. p. 1530; Gaz. vol. 177; p. 275.
Hayton, Thomas R., Quincy, Ill. Centrifugal pump. No. 1,032,828; July 16; Gaz. vol. 180; p. 767.
Hayward Company, The. (See Atkinson, Herbert S., assignor.)
Hayward Company, The. (See Morris, Charles A., assignor.)
Hayward, Frank J., Spencer, Wis. Snow-plow. No. 1,021,928; Apr. 2; Sp. p. 365; Gaz. vol. 177; p. 60.
Hayward, Henry E., Philadelphia, Pa., assignor to Link-Belt Company, Chicago, Ill. Chain-link. No. 1,022,942; Apr. 9; Sp. p. 2555; Gaz. vol. 177; p. 433.
Hayward, Melville P., Quincy, assignor to American Finishing Machinery Company, Boston, Mass. Cloth-stretching machine. No. 1,039,281; Sept. 24; Gaz. vol. 182; p. 800.
Hayward, Walter E., Damariscotta, Me. Dish-drainer. No. 1,034,912; Aug. 6; Gaz. vol. 181: p. 171.
Haywood, Daisy A. (See Atkinson, William W., assignor.)
Haywood, Daniel H. (See Cook and Haywood.)
Haywood, Flora G., executrix. (See Cook and Haywood.)
Hazard, Frank A., assignor to J. T. Kavenaugh, New York, N. Y. Back-stop attachment for paper-feeds. No. 1,014,147; Jan. 9; Sp. p. 2349; Gaz. vol. 174; p. 393.
Hazard, Frederick J. H., Toronto, Ontario, Canada. Amusement device. No. 1,022,674; Apr. 9; Sp. p. 1953; Gaz. vol. 177; p. 339.
Hazard, Frederick J. H., assignor of one-half to William Coulter & Sons, Toronto, Ontario, Canada. Pneumatic-despatch system. No. 1,025,803; May 7; Sp. p. 1521; Gaz. vol. 178; p. 240.
Hazard, Louis A., Baltimore, Md., assignor to Wise Brothers, New York, N. Y. Union overall-garment. No. 1,019,713; Mar. 5; Sp. p. 1527; Gaz. vol. 176; p. 237.
Hazard, Robert H., Washington, D. C. Toy. No. 1,031,116; July 2; Gaz. vol. 180; p. 95.
Hazard, Samuel B., Peoria, Ill. Hand-cart. No. 1,029,365; June 11; Sp. p. 2818; Gaz. vol. 179; p. 475.
Hazard, W. S., Jr., *et al.* (See Kepford, David, assignor.)
Hazel-Atlas Glass Company. (See Bellamy, John B., assignor.)
Hazel, Ernest C., and H. Haase, Atchison, Kans. Folding crate. No. 1,041,786; Oct. 22; Gaz. vol. 183; p. 815.
Hazel, Henry M., and A. S. Coltharp, Tallulah, La. Car-door. No. 1,013,770; Jan. 2; Sp. p. 1504; Gaz. vol. 174; p. 238.
Hazelip, Edwin, assignor of one-fourth to T. B. Trimble, Baltimore, and one-half to A. L. Cummings, Melvale, Md. Valve. No. 1,039,391; Sept. 24; Gaz. vol. 182; p. 837.
Hazelrigg, Ross, Oakland, Cal., assignor to Vaco Manufacturing Co. Vacuum supporting device. No. 1,026,263; May 14; Sp. p. 2586; Gaz. vol. 178; p. 433.
Hazeltine, Robert H., New York, N. Y. Machine for reseating valves. (Reissue.) No. 13,421; May 21; Sp. p. 5094; Gaz. vol. 178; p. 856.
Hazelton, William S., North Chicago, Ill. Wire-fence builder. No. 1,036,231; Aug. 20; Gaz. vol. 181; p. 691.
Hazen-Brown Company. (See Hazen, George D., assignor.)
Hazen, George D., assignor to Hazen-Brown Company, Brockton, Mass. Collapsible tube. No. 1,027,728; May 28; Sp. p. 5757; Gaz. vol. 178; p. 1003.
Hazen, Henry L., Fort Lee, N. J. Dumping-wagon. No. 1,038,491; Sept. 10; Gaz. vol. 182; p. 476.
Hazen, Levi P., Cincinnati, Ohio. Bottle carrying and holding case. No. 1,027,049; May 21; Sp. p. 4352; Gaz. vol. 178; p. 739.
Hazen, Levi P., Cincinnati, Ohio. Down-spout bracket and hanger. No. 1,034,444; Aug. 6; Gaz. vol. 181; p. 15.
Hazen, Levi P., Cincinnati, Ohio. Anchor or bolt insert for concrete structures. No. 1,037,142; Aug. 27; Gaz. vol. 181; p. 1031.
Hazen, Louise A., Fairfield township, Crawford county, Pa. Auxiliary vehicle-seat. No. 1,015,799; Jan. 30; Sp. p. 5962; Gaz. vol. 174; p. 1043.
Heacox, Harry L., Derry, Pa. Tie and rail-fastener. No. 1,018,902; Feb. 27; Sp. p. 5925; Gaz. vol. 175; p. 1021.
Head, John L., assignor of one-fourth to W. B. Fair, Habana, Cuba. Agricultural implement. No. 1,041,077; Oct. 15; Gaz. vol. 183; p. 541.
Head, Ralph B., Denver, Colo. Telephone-meter. No. 1,042,790; Oct. 29; Gaz. vol. 183; p. 1186.
Head, Robert, assignor to Pine Hill Crystal Spring Water Co., New York, N. Y. Combined closure and faucet. No. 1,017,756; Feb. 20; Sp. p. 3323; Gaz. vol. 175; p. 595.
Headen, Frank H., East St. Louis, Ill. Automatic scale. No. 1,032,209; July 9; Gaz. vol. 180; p. 511.
Headley, Benjamin T., and M. C. Bard, assignors to Millville Machine Company, Millville, N. J. Glass-working machine. No. 1,017,870; Feb. 20; Sp. p. 3632; Gaz. vol. 175; p. 634.
Headley Good Roads Company. (See Headley, William T., assignor.)
Headley, William T., Philadelphia, Pa., assignor to Headley Good Roads Company, Wilmington, Del. Making pavements, roads or streets, and cellar-floors or the like. No. 1,035,787; Aug. 13; Gaz. vol. 181; p. 498.
Headley, William T., Philadelphia, Pa., assignor to Headley Good Roads Company, Wilmington, Del. Composition for constructing roads or pavements. No. 1,045,286; Nov. 26; Gaz. vol. 184; p. 870.
Headson, Frank A., assignor to H. W. Johns-Manville Company, Milwaukee, Wis. Paper-making machine. No. 1,018,903; Feb. 27; Sp. p. 5926; Gaz. vol. 175; p. 1021.
Heagney, John W., Melrose, Iowa. Spring-wheel. No. 1,040,945; Oct. 8; Gaz. vol. 183; p. 462.
Healey & Co. (See Douglas, William H., assignor.)
Healey, Fred B., and C. S. Homsher, Denver, Colo. Speedometer. No. 1,019,638; Mar. 5; Sp. p. 1395; Gaz. vol. 176; p. 213.
Healey, Walter F. (See Howe, Demarest, and Healey.)
Healy, James H. (See Healy, John A. and J. H.)
Healy, James T. (See Campbell, Leon J., assignor.)
Healy, James T., trustee. (See Campbell, Leon J., assignor.)
Healy, John A. and J. H., St. Paul, Minn. Pipe-hanger. No. 1,049,085; Dec. 31; Gaz. vol. 185; p. 1273.
Healy, Mack J., Bradford, Pa. Ring-shield for glass-drawing apparatus. No. 1,034,446; Aug. 6; Gaz. vol. 181; p. 15.
Healy, Mack J., Bradford, Pa. Ring-shield and fendering for glass-drawing apparatus. No. 1,034,447; Aug. 6; Gaz. vol. 181; p. 16.

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Healy, Mack J., Bradford, Pa. Attachment for glass-drawing tanks. No. 1,034,448; Aug. 6; Gaz. vol. 181; p. 16.
Healy, Mack J., assignor to Consolidated Window Glass Company, Bradford, Pa. Ring-shield for glass-drawing apparatus. No. 1,034,445; Aug. 6; Gaz. vol. 181; p. 15.
Heany, John A., Flint, Mich. Electric welding machine. No. 1,015,492; Jan. 23; Sp. p. 5314; Gaz. vol. 174; p. 911.
Heany, John A., Washington, D. C. Pneumatic engine-starter. No. 1,029,994; June 18; Sp. p. 4193; Gaz. vol. 179; p. 727.
Heap & Co., Wm. (See Lauzon, Calvin A., assignor.)
Heap & Co., Wm. (See Lauzon and Rose, assignors.)
Heard, Nathan, trustee. (See Cummings, Walter C., assignor.)
Heard, William H., London, Ontario, Canada. Spraying apparatus. No. 1,043,929; Nov. 12; Gaz. vol. 184; p. 341.
Hearest, Joshua G., assignor of three-tenths to S. P. Livingston, Jacksonville, Fla. Curtain-hanger. No. 1,026,951; May 21; Sp. p. 4136; Gaz. vol. 178; p. 705.
Hearn, John L., Corral, Idaho. Curtain-stretcher. No. 1,042,342; Oct. 22; Gaz. vol. 183; p. 1001.
Hearns, William, Washington, D. C. Device for removing and inserting taps and plugs in water-mains. No. 1,040,538; Oct. 8; Gaz. vol. 183; p. 323.
Heaslet, Harvey B., New Brighton, Pa. Sand-blasting apparatus. No. 1,037,760; Sept. 3; Gaz. vol. 182; p. 195.
Heaslet, James G., Detroit, assignor of one-half to W. E. Flanders, Pontiac, Mich. Casing for universal joints for automobiles. No. 1,024,132; Apr. 23; Sp. p. 5089; Gaz. vol. 177; p. 895.
Heasley, Jacob M., Pittsburgh, Pa. Metallic railway-tie. No. 1,045,705; Nov. 26; Gaz. vol. 184; p. 1019.
Heasley, W. M. (See Taylor, William T., assignor.)
Heater-Muffler Co. (See Lewis, Edward D., assignor.)
Heath, Arthur M., Artesia, N. Mex. Nut-lock. No. 1,016,147; Jan. 30; Sp. p. 6697; Gaz. vol. 174; p. 1164.
Heath, Eugene F. (See Bartholomew and Heath.)
Heath, George M. (See Hagmann, John G., assignor.)
Heath, James L. (See Finn, Clarence C., assignor.)
Heath, Ora J. (See Turner and Heath.)
Heath, Rolla M., New York, N. Y. Nail-brush. No. 1,028,211; June 4; Sp. p. 341; Gaz. vol. 179; p. 47.
Heath, Samuel, Philadelphia, Pa. Vapor-burner. No. 1,016,497; Feb. 6; Sp. p. 591; Gaz. vol. 175; p. 92.
Heath, Samuel, Philadelphia, Pa. Chimney. No. 1,047,630; Dec. 17; Gaz. vol. 185; p. 709.
Heath, Samuel, Roxboro, Pa. Smoke and carbon consumer. No. 1,038,882; Sept. 17; Gaz. vol. 182; p. 647.
Heath, Spencer, Washington, D. C. Screw-propeller and manufacture of the same. No. 1,043,830; Nov. 12; Gaz. vol. 184; p. 306.
Heath, Walter D., Lakeport, N. H., assignor, by mesne assignments, to A. V. Manufacturing Co., New York, N. Y. Electric-circuit controller. No. 1,046,463; Dec. 10; Gaz. vol. 185; p. 270.
Heath, William R. (See Tallmadge, Charles H., assignor.)
Heathcote, Lewin J., Baltimore, Md. Ship-speed indicator. No. 1,020,980; Mar. 26; Sp. p. 4210; Gaz. vol. 176; p. 782.
Heaton, Herbert, Rockledge, Pa. Knitting-needle. No. 1,022,238; Apr. 2; Sp. p. 1034; Gaz. vol. 177; p. 165.
Heaton-Peninsular Button Fastener Company. (See Perkins, George W., assignor.)
Heavenrich, Rosa J., New York, N. Y. Hat and veil pin. No. 1,027,651; May 28; Sp. p. 5604; Gaz. vol. 178; p. 979.
Heaviside, William, Davis, Cal. Electric iron. No. 1,031,443; July 2; Gaz. vol. 180; p. 207.
Hebb, Edward T., Caldwell, Kans. Railway-switch-operating device. No. 1,038,574; Sept. 17; Gaz. vol. 182; p. 539.
Hebden, Frank S., Peoria, Ill. Scale. No. 1,034,013; July 30; Gaz. vol. 180; p. 1231.
Heberer, Adam, Alameda, and H. A. Hyne, Belmont, Cal. Apparatus for feeding fuel to furnaces. No. 1,022,550; Apr. 9; Sp. p. 1678; Gaz. vol. 177; p. 297.
Heberling, Frederick A., Centralia, Ill. Well-drilling machine. No. 1,026,508; May 14; Sp. p. 3124; Gaz. vol. 178; p. 516.
Herbert, Joseph A. H., *et al.* (See Lord, Peter, assignor.)
Hebert, Paul, Benrath, Germany. Rail-tie. No. 1,042,343; Oct. 22; Gaz. vol. 183; p. 1001.
Hebrank, William F., Highland, Ill. Assorting-machine. No. 1,020,981; Mar. 26; Sp. p. 4214; Gaz. vol. 176; p. 782.
Hebs, William J. G., St. Louis, Mo. Life-preserver. No. 1,046,068; Dec. 3; Gaz. vol. 185; p. 92.
Hecht, Alfred S. (See Kaiser and Hecht.)
Hecht, Joseph L., *et al.* (See Einfeldt, Emil, assignor.)
Hecht, Joseph L., Davenport, Iowa, assignor, by mesne assignments, to Davenport Wagon Company, Moline, Ill. Wagon-gear. No. 1,034,449; Aug. 6; Gaz. vol. 181; p. 16.
Heckaman, Michael C., Yates, Mont. Thread-cutter. No. 1,034,450; Aug. 6; Gaz. vol. 181; p. 17.
Heckel, Otto A. (See Goessling, Pauk, Kachel, and Heckel, assignors.)
Heckel, Otto A., assignor of one-half to E. H. Spellmeyer, Jr., St. Louis, Mo. Dispensing-tank for liquids. No. 1,016,990; Feb. 13; Sp. p. 1697; Gaz. vol. 175; p. 296.
Hecker, Thomas, Carrington, N. D. Shock-loader. No. 1,016,826; Feb. 6; Sp. p. 1315; Gaz. vol. 175; p. 202.
Heckert, John E., Claremont, Cal. Window-cleaner. No. 1,022,134; Apr. 2; Sp. p. 813; Gaz. vol. 177; p. 129.
Heckman, Clarence K., Hagerstown, Md. Pneumatic action for pipe-organs. No. 1,043,593; Nov. 5; Gaz. vol. 184; p. 195.
Heckmann, Heinrich L. (See Crain and Heckmann.)
Hedberg, August P. (See Westerling and Hedberg.)
Hedberg, Jakob A., Gottenborg, Sweden. Locking device for the controlling-cords of window-blinds. No. 1,036,232; Aug. 20; Gaz. vol. 181; p. 692.
Hedberg, Peter L., assignor to Chicago Metal Weather Strip Company, Chicago, Ill., Metal weather-strip. No. 1,033,694; July 23; Gaz. vol. 180; p. 1092.
Hedden, Harry, Evansville, Ind. Nut and bolt lock. No. 1,026,035; May 14; Sp. p. 2070; Gaz. vol. 178; p. 354.
Hedderich, Leander J., Mulberry, Ind., assignor to Albaugh-Dover Co., Chicago, Ill. Liner for centrifugal liquid-separators. No. 1,025,567; May 7; Sp. p. 1038; Gaz. vol. 178; p. 160.
Hedenberg, Charles L., Madison, Ga. Pumping device. No. 1,043,763; Nov. 5; Gaz. vol. 184; p. 252.
Hedfeldt, Axel T., and H. Hager, Chicago, Ill. Winnowing-machine. No. 1,028,022; May 28; Sp. p. 6424; Gaz. vol. 178; p. 1102.
Hedger, Harold P. F., Waseca, Saskatchewan, Canada. Stop-cock. No. 1,028,459; June 4; Sp. p. 875; Gaz. vol. 179; p. 132.
Hedges, Samuel P., Greenport, N. Y. Portable faultfinding device for electrical ignition apparatus. No. 1,024,935; Apr. 30; Sp. p. 6874; Gaz. vol. 177; p. 1207.
Hedley, Frank. (See Robertson, Phillip W., assignor.)
Hedley, Frank, Yonkers, and J. S. Doyle, New York, N. Y. Time-recording device for electric trains. No. 1,020,419; Mar. 19; Sp. p. 2989; Gaz. vol. 176; p. 542.
Hedley, Frank, Yonkers, and J. S. Doyle, New York, N. Y. Time-recording device for electric trains. No. 1,020,420; Mar. 19; Sp. p. 2992; Gaz. vol. 176; p. 542.
Hedman, Carl M., Chicago, Ill., assignor, by mesne assignments, to L. S. Smith & Son Company, Pittsburgh, Pa. Dental stool. No. 1,044,523; Nov. 19; Gaz. vol. 184; p. 575.
Hedman, Erik G., Stockholm, Sweden. Automatic weighing apparatus. No. 1,015,561; Jan. 23; Sp. p. 5450; Gaz. vol. 174; p. 933.
Hedman, Erik G., Stockholm, Sweden. Counterweight mechanism for weighing apparatus. No. 1,045,401; Nov. 26; Gaz. vol. 184; p. 908.
Hedrich, Charles, Granite City, Ill. Extension-table. No. 1,039,128; Sept. 24; Gaz. vol. 182; p. 744.
Hedrich, Gustav, Barmen, Germany. Machine for cutting chenille. No. 1,042,553; Oct. 29; Gaz. vol. 183; p. 1102.
Hedrick, Clarence C., Kansas City, Kans. Finger-cuff. No. 1,042,344; Oct. 22; Gaz. vol. 183; p. 1002.
Hedrick, Clarence E., Newton, Kans. Revolving ladder-support for silos. No. 1,045,840; Dec. 3; Gaz. vol. 185; p. 16.
Hedstrom, John P., assignor to Hanchett Swage Works, Big Rapids, Mich. Rest for saw-sharpening machines. No. 1,022,479; Apr. 9; Sp. p. 1532; Gaz. vol. 177; p. 275.
Hedstrom, John P., assignor to Hanchett Swage Works, Big Rapids, Mich. Feed-finger mechanism. No. 1,031,711; July 9; Gaz. vol. 180; p. 342.
Hedstrom, John P., assignor to Hanchett Swage Works, Big Rapids, Mich. Combined rest and clamp. No. 1,031,712; July 9; Gaz. vol. 180; p. 342.
Hedstrom, John P., assignor, to Hanchett Swage Works, Big Rapids, Mich. Stretcher-rolls. No. 1,038,127; Sept. 10; Gaz. vol. 182; p. 350.
Heedwell, Gothard, and W. F. McNew, Boone, Iowa. Adjustable dumping-fork. No. 1,048,964; Dec. 31; Gaz. vol. 185; p. 1230.
Heeley, George, assignor to La Compagnie pour La Fabrication des Compteurs et Matériel D'Usines À Gaz, Paris, France. Bellows for dry gas-meters. No. 1,036,233; Aug. 20; Gaz. vol. 181; p. 692.
Heeley, John S., Gallatin, Pa. Envelop. No. 1,024,258; Apr. 23; Sp. p. 5372; Gaz. vol. 177; p. 941.
Heenan, Hammersley, Manchester, England. Building cooling or warming drums. No. 1,018,242; Feb. 20; Sp. p. 4456; Gaz. vol. 175; p. 765.
Heenan, Hammersley, Manchester, England. Apparatus for cooling or warming water, air, or gas. No. 1,018,243; Feb. 20; Sp. p. 4457; Gaz. vol. 175; p. 765.
Heeney, Henry J., Brookline, Mass., assignor to Holtzer-Cabot Electric Company. Gong-striking mechanism. No. 1,024,449; Apr. 23; Sp. p. 5755; Gaz. vol. 177; p. 1001.
Heer, Henry, Ogden, Kans. Plow. No. 1,014,470; Jan. 9; Sp. p. 3048; Gaz. vol. 174; p. 505.
Heerwagen Company. (See Schwertner, Joseph, assignor.)
Heerwagen, Leopold F. A. H., *et al.* (See Schwertner, Joseph, assignor.) (Reissue.)

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Heesemann, Heinrich, Herscheid-Friedrichsthal, Germany. Chaplet for metal casting. No. 1,043,102; Nov. 5; Gaz. vol. 184; p. 19.
Heess, Jacob, Ebertsheim, assignor to E. Mann & Co., Ebertsheim, Rhein-Pfalz, Germany. Apparatus for sorting and cleaning waste paper, rags, and the like. No. 1,035,345; Aug. 13; Gaz. vol. 181; p. 350.
Heeter, Charles M., Butler, Pa. Swab. No. 1,021,600; Mar. 26; Sp. p. 5528; Gaz. vol. 176; p. 992.
Heeter, Thomas E., assignor of one-half to F. W. Risque, St. Louis, Mo. Switch-operating mechanism. No. 1,042,435; Oct. 29; Gaz. vol. 183; p. 1061.
Heffernan, Florence F., New York, N. Y. Combined anti-skidding and jack attachment for automobiles. No. 1,019,469; Mar. 5; Sp. p. 1065; Gaz. vol. 176; p. 157.
Heffefinger, Dennis, *et al.* (See Valentine, Levi J., assignor.)
Heffner, John L., Peoria, Ill. Mattress. No. 1,029,928; June 18; Sp. p. 4068; Gaz. vol. 179; p. 707.
Heffner, Samuel H. J. (See Kissinger and Heffner.)
Heffner, William F., Benton Harbor, Mich. Paging and numbering machine. No. 1,034,234; July 30; Gaz vol. 180; p. 1307.
Heflin, James L. (See Heflin and Penisten.)
Heflin, Le Roy and J. L., and C. E. Penisten, Fairfax, Okla. Automatic rain-water-cut-off device. No. 1,030,175; June 18; Sp. p. 4565; Gaz. vol. 179; p. 789.
Hefner, Henry B. (See James, John Y., assignor.)
Hefter, Joseph, Buffalo, N. Y. Automatic weighing-machine. No. 1,019,323; Mar. 5; Sp. p. 715; Gaz. vol. 176; p. 111.
Hegeman, Benjamin A., Jr. (See Hillman, Edward D., assignor.)
Heger, Anton, New York, N. Y. Keyboard-machine for setting and distributing type for facsimile type-writing. No. 1,017,667; Feb. 20; Sp. p. 3127; Gaz. vol. 175; p. 565.
Heger, Norbert, Denver, Colo. Belt-hook. No. 1,035,963; Aug. 20; Gaz. vol. 181; p. 595.
Hegerhorst, John, Chicago, Ill. Piano-stool. No. 1,016,886; Feb. 6; Sp. p. 1432; Gaz. vol. 175; p. 223.
Hegewald, Julius, Waltham, Mass. Educational appliance. No. 1,028,212; June 4; Sp. p. 342; Gaz. vol. 179; p. 47.
Hegge, Olaf N., Hatton, N. D. Display-rack. No. 1,035,006; Aug. 6; Gaz. vol. 181; p. 202.
Hegner, Charles. (See Herbold and Hegner.)
Heichelbech, Andrew C., West Baden, Ind. Collar and tie. No. 1,017,414; Feb. 13; Sp. p. 2622; Gaz. vol. 175; p. 443.
Heichert, Herman S., Ford City, assignor to Pittsburgh Plate Glass Company, Pittsburgh, Pa. Apparatus for making plaster-board. No. 1,023,934; Apr. 23; Sp. p. 4650; Gaz. vol. 177; p. 826.
Heichert, Herman S., Ford City, assignor to Pittsburgh Plate Glass Company, Pittsburgh, Pa. Drier for wall-boards. No. 1,026,162; May 14; Sp. p. 2362; Gaz. vol. 178; p. 399.
Heidbrink, Hermann W., and H. H. Liesemeyer, Rosebud, Mo. Clamp. No. 1,031,928; July 9; Gaz. vol. 180; p. 417.
Heide, Christen P., Kenosha, Wis. Measuring device. No. 1,027,418; May 28; Sp. p. 5142; Gaz. vol. 178; p. 902.
Heide, John F. H., Chicago, Ill. Watch-securing device. No. 1,038,575; Sept. 17; Gaz. vol. 182; p. 539.
Heidel, Charles H., Bethlehem, Pa. Shuttle-protector. No. 1,048,070; Dec. 24; Gaz. vol. 185; p. 886.
Heiden, Will A., Guthrie, Okla. Grain-door for cars. No. 1,037,761; Sept. 3; Gaz. vol. 182; p. 195.
Heidenreich, Carl. (See Hausdörfer and Heidenreich.)
Heidenreich, Carl, Leverkusen, near Cologne, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Blue wool-dye. No. 1,025,267; May 7; Sp. p. 348; Gaz. vol. 178; p. 57.
Heidenreich, William F., *et al.* (See Vargyas, Eugene von, assignor.)
Heidgerken, George, Rapid City, S. D. Hay-baler. No. 1,035,585; Aug. 13; Gaz. vol. 181; p. 431.
Heidkamp, Rudolf, Hanover, Germany. Digging implement for military or other purposes. No. 1,032,754; July 16; Gaz. vol. 180; p. 742.
Heierle, Berta. (See Dünnenberger and Heierle.)
Heil, Albrecht, Frankfort-on-the-Main, Germany. Galvanic battery. No. 1,028,354; June 4; Sp. p. 641; Gaz. vol. 179; p. 96.
Heil, Charles E., Cleveland, Ohio. Device for applying toilet powder. No. 1,042,673; Oct. 29; Gaz. vol. 183; p. 1146.
Heil, Edward J., Carteret, and J. Birner, Elizabeth, N. J. Non-refillable bottle. No. 1,035,007; Aug. 6; Gaz. vol. 181; p. 202.
Heilbrun, Louis I., New York, N. Y. Box-lid-attaching means. No. 1,024,571; Apr. 30; Sp. p. 6105; Gaz. vol. 177; p. 1080.
Heilemann, Walter, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Fluid-brake for recoil-guns. No. 1,028,939; June 11; Sp. p. 1894; Gaz. vol. 179; p. 327.
Heilemann, Walter, and H. Kanonenberg, assignors to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Spade arrangement. No. 1,029,191; June 11; Sp. p. 2428; Gaz. vol. 179; p. 413.
Heilman, John G. (See Ries, Frank, assignor.)
Heim, Adam, Connersville, Ind. Baling-press. No. 1,031,444; July 2; Gaz. vol. 180; p. 207.
Heim, Friedrich. (See Stock and Heim.)
Heim, Lewis R., Danbury, Conn. Ironing-machine. No. 1,036,111; Aug. 20; Gaz. vol. 181; p. 647.
Heim, Lewis R., Danbury, Conn. Stapling-machine. No. 1,036,841; Aug. 27; Gaz. vol. 181; p. 931.
Heim, Richard, Canastota, assignor of one-half to F. Behrend, New York, N. Y. Producing adhesives. No. 1,018,559; Feb. 27; Sp. p. 5214; Gaz. vol. 175; p. 906.
Heimer, John, Minneapolis, Minn., assignor to Minnesota Manufacturers Association. Elevator. No. 1,046,386; Dec. 3; Gaz. vol. 185; p. 205.
Heimlich, Ferencz, San Francisco, Cal. Shoemaker's jack. No. 1,038,128; Sept. 10; Gaz. vol. 182; p. 350.
Hein, Jacob J., *et al.* (See Conkell, Elias W., assignor.)
Hein, Max L., Moonee Ponds, Victoria, assignor of one-half to J. Copp, Oakleigh, Australia. Electric railway signaling system. No. 1,038,129; Sept. 10; Gaz. vol. 182; p. 351.
Hein, Paul, Essen-Ruettenscheid, assignor to Diamant Brikett-Werke G. m. b. H., Berlin, Germany. Apparatus for coking briquets. No. 1,037,479; Sept. 3; Gaz. vol. 182; p. 104.
Hein, Paul, Essen-Ruettenscheid, assignor to Diamant Brikett-Werke G. m. b. H., Berlin, Germany. Means for heating briquets and the like. No. 1,039,533; Sept. 24; Gaz. vol. 182; p. 887.
Heina, Paul, assignor to Sté des Télégraphes Multiplex, (System E. Mercadier,) Paris, France. Monotelephone-relay. No. 1,014,220; Jan. 9; Sp. p. 2502; Gaz. vol. 174; p. 420.
Heine, Heinrich. (See Mill, Anton and A., Jr., assignors.)
Heine, Henry G. von. (See Presser, John P., assignor.)
Heine Safety Boiler Company. (See Pahmeyer, Frederick O., assignor.)
Heineman, Solomon E. (See Merz, Theodore C., assignor.)
Heinemann, Albert, Berlin, Germany. Carafe and stopper. No. 1,024,894; Apr. 30; Sp. p. 6788; Gaz. vol. 177; p. 1193.
Heinemann, Arthur, South Kensington, London, England. Synthetic caoutchouc. No. 1,035,788; Aug. 13; Gaz. vol. 181; p. 498.
Heinemann, Fritz, Hamburg, Germany. Combined rail joint and chair. No. 1,015,437; Jan. 23; Sp. p. 5187; Gaz. vol. 174; p. 891.
Heinemann, Karl, assignor to Deutsche Waffen- und Munitionsfabriken, Berlin, Germany. Automatic gun. No. 1,045,549; Nov. 26; Gaz. vol. 184; p. 964.
Heinen, Frank C., Chicago, Ill. Magnetic separator. No. 1,026,673; May 21; Sp. p. 3480; Gaz. vol. 178; p. 608.
Heinen, Frank H. (See Carlsen, Andrew M., assignor.)
Heinicke, Julius G., Richmond Hill, N. Y. Display-box. No. 1,016,148; Jan. 30; Sp. p. 6698; Gaz. vol. 174; p. 1164.
Heinig, Wilhelmine. (See Heinig, William, assignor.)
Heinig, William, assignor to W. Heinig, Fitchburg, Mass. Fender. No. 1,028,119; June 4; Sp. p. 51; Gaz. vol. 179; p. 12.
Heinig, William, assignor to W. Heinig, Fitchburg, Mass. Engine-tender. No. 1,044,045; Nov. 12; Gaz. vol. 184; p. 381.
Heinig, William, assignor to W. Heinig, Fitchburg, Mass. Track-brake. No. 1,046,293; Dec. 3; Gaz. vol. 185; p. 172.
Heinitz, Woldemar R., assignor to Schubert & Salzer Maschinenfabrik Aktiengesellschaft, Chemnitz, Germany. Calculating-machine. No. 1,020,200; Mar. 12; Sp. p. 2552; Gaz. vol. 176; p. 433.
Heinkel, Christian F., and J. Muth, Cleveland, Ohio; said Muth assignor to said Heinkel. Drill. No. 1,022,135; Apr. 2; Sp. p. 816; Gaz. vol. 177; p. 129.
Heinkel, Christian F., and J. Muth, Cleveland, Ohio; said Muth assignor to said Heinkel. Uniting materials. No. 1,043,831; Nov. 12; Gaz. vol. 184; p. 307.
Heinrich, Edith L. (See Smith, Oliver J. A., assignor.)
Heinrich, Max A., Glauchau, Germany. Ballot-box. No. 1,047,631; Dec. 17; Gaz. vol. 185; p. 709.
Heinrich, Stephen J., Newton Highlands, assignor to B. L. Makepeace, Mansfield, Mass. Transit. No. 1,047,220; Dec. 17; Gaz. vol. 185; p. 563.
Heinrich, William, Mosgrove, Pa. Trolley-retainer for dumping-buckets. No. 1,015,179; Jan. 16; Sp. p. 4606; Gaz. vol. 174; p. 777.
Heins, Otto, Edgewater, N. J., assignor to Firm of Bosch Magneto Company, New York, N. Y. Interrupter for ignition-machines. No. 1,048,832; Dec. 31; Gaz. vol. 185; p. 1186.
Heinsohn, Edwin I., and W. R. Edwards, assignors to The Cleveland Welding & Mfg. Co., Cleveland, Ohio. Machine for and method of electric welding. No. 1,035,964 Aug. 20; Gaz. vol. 181; p. 596.
Heinsohn, Edwin I., W. R. Edwards, and F. R. Klaus, assignors to The Cleveland Welding & Mfg. Co., Cleveland, Ohio. Machine for rolling annular plates. No. 1,041,279; Oct. 15; Gaz. vol. 183; p. 610.
Heinss, Christian F., Cincinnati, Ohio. Vehicle-wheel. No. 1,015,888; Jan. 30; Sp. p. 6156; Gaz. vol. 174; p. 1073.

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Heinss, Christian F., Cincinnati, Ohio. Spring vehicle-wheel. No. 1,038,576; Sept. 17; Gaz. vol. 182; p. 539.
Heintz, Otto L., Buffalo, N. Y. Producing metallic articles. No. 1,037,143; Aug. 27; Gaz. vol. 181; p. 1031.
Heinz, Paul, Janesville, Wis. Grain-separator. No. 1,037,248; Sept. 3; Gaz. vol. 182; p. 25.
Heinz, William E. (See Schweikert and Heinz.)
Heinze, John O., Jr., Lowell, Mass. Lock-snap contact for making electrical connections. No. 1,039,392; Sept. 24; Gaz. vol. 182; p. 838.
Heinzelman, Charles A., Belleville, Ill. Cage for roller-bearings. No. 1,030,400; June 25; Sp. p. 5103; Gaz. vol. 179; p. 909.
Heinzelman, Chester A., Belleville, Ill. Roller-bearing. No. 1,030,401; June 25; Sp. p. 5104; Gaz. vol. 179; p. 910.
Heinzelman, Reginald, Belleville, Ill. Door-securing device. No. 1,026,745; May 21; Sp. p. 3635; Gaz. vol. 178; p. 632.
Heisey, Thomas C., and A. J. Sanford, assignors to A. H. Heisey & Co., Inc., Newark, Ohio. Illuminator. No. 1,028,721; June 4; Sp. p. 1402; Gaz. vol. 179; p. 218.
Heiskell, William L., Indianapolis, Ind. Device for writing for the use of the blind. No. 1,019,789; Mar. 12; Sp. p. 1691; Gaz. vol. 176; p. 295.
Heisler, Charles L., Schenectady, N. Y. Piston-rod-extension guide. No. 1,019,150; Mar. 5; Sp. p. 323; Gaz. vol. 176; p. 50.
Heisler, Charles L., Schenectady, N. Y. Valve-reversing gear. No. 1,036,842; Aug. 27; Gaz. vol. 181; p. 931.
Heisler, Charles L., Schenectady, N. Y. Locomotive-engine. No. 1,038,577; Sept. 17; Gaz. vol. 182; p. 540.
Heiss, Firm of Ludw. (See Clausen, Bernhard, assignor.)
Heisserman, George W., Jr., Philadelphia, Pa. Evaporator. No. 1,045,023; Nov. 19; Gaz. vol. 184; p. 750.
Heitman, C. E., New York, N. Y., assignor to H. Lange, Dorchester, Mass. Fluid-tight expansion-joint. No. 1,015,180; Jan. 16; Sp. p. 4607; Gaz. vol. 174; p. 777.
Heitman, Fred P., Genoa, Nev. Automatic speed-regulator for turbines. No. 1,031,181; July 2; Gaz. vol. 180; p. 118.
Heitmann, Johannes M. W., Hamburg, Germany. Fender. No. 1,018,316; Feb. 20; Sp. p. 4596; Gaz. vol. 175; p. 789.
Heitsch, Johann, New Castle, Pa. Drop-seat for locomotive-cabs. No. 1,042,913; Oct. 29; Gaz. vol. 183; p. 1228.
Heitzmann, Fritz, Freiburg, Germany. Manufacture of manifold-writing books and pads. No. 1,021,776; Apr. 2; Sp. p. 41; Gaz. vol. 177; p. 10.
Heizmann, Charles R., Reading, Pa. Automobile-horn. No. 1,023,016; Apr. 9; Sp. p. 2686; Gaz. vol. 177; p. 458.
Hejnal, Frank, Baltimore, Md. Inkstand. No. 1,018,189; Feb. 20; Sp. p. 4355; Gaz. vol. 175; p. 747.
Hekell, George, *et al.* (See Szabados, Antony, assignor.)
Hekkel, G., *et al.* (See Balazs, John, assignor.)
Helander, Axel H. (See Helander, Ernst G., assignor.)
Helander, Ernst G., assignor of one-half to A. H. Helander, Pittsburgh, Pa. Condenser. No. 1,048,532; Dec. 31; Gaz. vol. 185; p. 1081.
Helberger, Hugo, Munich, Germany. Electrical resistance furnace. No. 1,023,309; Apr. 16; Sp. p. 3343; Gaz. vol. 177; p. 597.
Helbling, William, Philadelphia, Pa. Car-fender. No. 1,017,668; Feb. 20; Sp. p. 3138; Gaz. vol. 175; p. 565.
Held, Siegfried, Chicago, Ill. Apparatus for producing ozone. No. 1,038,130; Sept. 10; Gaz. vol. 182; p. 351.
Held, Siegfried, Chicago, Ill. Apparatus for sterilizing water. No. 1,044,653; Nov. 19; Gaz. vol. 184; p. 621.
Helder, Draper D., Settlers township, Sioux county, Iowa. Muffler. No. 1,015,955; Jan. 30; Sp. p. 6294; Gaz. vol. 174; p. 1095.
Helderman, Charley A., and J. S. Russell, Gold Hill, N. C. Semaphore-pole. No. 1,029,442; June 11; Sp. p. 2991; Gaz. vol. 179; p. 501.
Heldmann, Peter, assignor to Maschinenfabrik Moenus A. G., Frankfort-on-the-Main, Germany. Belt-sewing machine. No. 1,015,438; Jan. 23; Sp. p. 5188; Gaz. vol. 174; p. 892.
Heldmann, Peter, Frankfort-on-the-Main, assignor to Corporation Maschinenfabrik Moenus A. G., Frankfort-on-the-Main-Bockenheim, Germany. Scalloping-machine. No. 1,039,534; Sept. 24; Gaz. vol. 182; p. 887.
Heldrich, Andrew. (See Cade and Heldrich.)
Heldt, Edwardt, Merrill, Wis. Rotary engine. No. 1,017,971; Feb. 20; Sp. p. 3876; Gaz. vol. 175; p. 670.
Helfenstein, Alois, Vienna, Austria-Hungary. Smelting-furnace with electric refining-hearths connected thereto. No. 1,015,439; Jan. 23; Sp. p. 5193; Gaz. vol. 174; p. 892.
Helfrich, George J., Cincinnati, Ohio. Clamp for horse-shoe-calks. No. 1,038,883; Sept. 17; Gaz. vol. 182; p. 647.
Helgerson, Thomas O., Minneapolis, assignor of one-half to Fosston Manufacturing Company, St. Paul, Minn. Grain-cleaner. No. 1,019,470; Mar. 5; Sp. p. 1067; Gaz. vol. 176; p. 157.
Helgeson, Gina N. (See Anderson, Lars M., assignor.)
Hell-Cushion Drive Limited, The. (See Perry and Jones, assignors.)
Helken, Emil W. H., New York, N. Y. Egg-beater or the like. No. 1,039,735; Oct. 1; Gaz. vol. 183; p. 22.
Hell, William A., Davenport, Iowa. Sash-holder. No. 1,030,469; June 25; Sp. p. 5246; Gaz. vol. 179; p. 934.
Helland, Tom S. (See Anderson, William, assignor.)
Hellberg, Pontus, London, England. Slitting and winding mechanism. No. 1,013,490; Jan. 2; Sp. p. 879; Gaz. vol. 174; p. 140.
Hellberg, Pontus, London, England. Paper slitting and winding machine. No. 1,047,408; Dec. 17; Gaz. vol. 185; p. 629.
Hellberg, William F., McGregor, Iowa. Can. No. 1,037,620; Sept. 3; Gaz. vol. 182; p. 148.
Heller, Arnaud G., *et al.* (See Bennett, William N., assignor.)
Heller, Charles S., assignor to Moore Architectural and Engineering Company, Akron, Ohio. Apparatus for use in reclaiming vulcanized-rubber waste. No. 1,024,936; Apr. 30; Sp. p. 6875; Gaz. vol. 177; p. 1208.
Heller, Charles S., assignor to Moore Architectural and Engineering Company, Akron, Ohio. Reclaiming vulcanized-rubber waste. No. 1,024,937; Apr. 30; Sp. p. 6878; Gaz. vol. 177; p. 1208.
Heller, Earnest, West Nottingham, Ohio. Sanding device for motor-cars. No. 1,032,671; July 16; Gaz. vol. 180; p. 714.
Heller, Ernst, St. Louis, Mo. Generator-furnace. No. 1,022,480; Apr. 9; Sp. p. 1534; Gaz. vol. 177; p. 276.
Heller, Herman S., San Francisco, Cal. Garment-fastener. No. 1,014,148; Jan. 9; Sp. p. 2350; Gaz. vol. 174; p. 393.
Heller, Julius, assignor to Schrauben- und Schmiedewarenfabriks Aktiengesellschaft, Brevillier & Co. und A. Urban & Söhne, Vienna, Austria-Hungary. Rolling screw-bolts. No. 1,017,543; Feb. 13; Sp. p. 2887; Gaz. vol. 175; p. 487.
Heller, Julius, assignor to Schrauben- und Schmiedewarenfabriks Aktiengesellschaft Brevillier & Co. und A. Urban & Söhne, Vienna, Austria-Hungary. Machine for rolling screw-bolts. No. 1,018,317; Feb. 20; Sp. p. 4597; Gaz. vol. 175; p. 790.
Heller, Martin, *et al.* (See Custer, Peter A., assignor.)
Heller, Sigmund, Chicago, Ill. Photograph-holder. No. 1,040,320; Oct. 8; Gaz. vol. 183; p. 248.
Heller Tool Company. (See Lyons, William W., assignor.)
Hellmann, Lui F., Indianapolis, Ind. Internal-combustion engine. No. 1,029,929; June 18; Sp. p. 4070; Gaz. vol. 179; p. 707.
Hellmich, Carl, Detroit, Mich. Curtain-pole. No. 1,037,906; Sept. 10; Gaz. vol. 182; p. 278.
Hellmund, Rudolf E., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Magnetizable wedge for dynamo-electric machines. No. 1,024,572; Apr. 30; Sp. p. 6107; Gaz. vol. 177; p. 1080.
Hellmund, Rudolf E., Great Barrington, Mass., assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Means for counteracting arcs. No. 1,028,112; June 4; Sp. p. 39; Gaz. vol. 179; p. 10.
Hellstrom, Frank O., *et al.* (See Woolen, Alfred, assignor.)
Hellström, Karl A., Stockholm, Sweden. Hair-clipper. No. 1,044,455; Nov. 12; Gaz. vol. 184; p. 521.
Hellweg, Henry, Milwaukee, Wis. Loose-leaf binder. No. 1,035,087; Aug. 6; Gaz. vol. 181; p. 228.
Helm, Amos J., Floydada, Tex. Aerodrome. No. 1,023,150; Apr. 16; Sp. p. 3019; Gaz. vol. 177; p. 542.
Helm, John, St. Louis, Mo. Pipe-wrench. No. 1,031,261; July 2; Gaz. vol. 180; p. 146.
Helm, Richard, Steglitz, near Berlin, Germany. Water-tube steam-generator. No. 1,046,387; Dec. 3; Gaz. vol. 185; p. 205.
Helman, Ralph P., Los Angeles, Cal. Oven. No. 1,014,149; Jan. 9; Sp. p. 2352; Gaz. vol. 174; p. 393.
Helmbacher, Xaver, Feldbach, near Waldighofen, Germany. Tooth for cultivators, harrows, and the like. No. 1,042,674; Oct. 29; Gaz. vol. 183; p. 1146.
Helmer, Melchert F., Denver, Colo. Railway. No. 1,041,078; Oct. 15; Gaz. vol. 183; p. 541.
Helmes, Maximilian J., East Orange, assignor of one-half to W. D. Sargent, West Orange, N. J. Rotary explosive-motor. No. 1,042,675; Oct. 29; Gaz. vol. 183; p. 1146.
Helmholtz, Henry. (See Rosenfelt and Helmholtz.)
Helmich, Daniel A., Birmingham, Ala. Self-cleaning rotary harrow. No. 1,045,024; Nov. 19; Gaz. vol. 184; p. 750.
Helmich, Daniel A., Birmingham, Ala., assignor to L. E. Terry, Southampton, N. Y. Cellular wall for sewage-disposal apparatus. No. 1,033,011; July 16; Gaz. vol. 180; p. 827.
Helmick, Clarence E., and W. E. Adler, La Grande, Oreg. Hay-stacker. No. 1,015,440; Jan. 23; Sp. p. 5195; Gaz. vol. 174; p. 892.
Helmick, Frederic. (See Finley, Walter A., assignor.)
Helmick, Louis G., Fairmont, W. Va. Mining-car. No. 1,048,309; Dec. 24; Gaz. vol. 185; p. 966.
Helsing, August W., and H. A. Donaldson, Fair Oaks, Pa. Nut-lock. No. 1,020,421; Mar. 19; Sp. p. 2996; Gaz. vol. 176; p. 543.
Helsing, Olof, Sandhem, Sweden. Aeroplane. No. 1,018,190; Feb. 20; Sp. p. 4356; Gaz. vol. 175; p. 747.

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Helstrom, John, Morristown, N. J. Foot-pedal switch. No. 1,019,745; Mar. 5; Sp. p. 1592; Gaz. vol. 176; p. 248.
Helstrom, John, Morristown, N. J. Wrench. No. 1,040,673; Oct. 8; Gaz. vol. 183; p. 374.
Heltzel, John N., Streator, Ill. Curb and gutter form. No. 1,037,907; Sept. 10; Gaz. vol. 182; p. 278.
Helvetia Silk Mills. (See Gaynor, James C., assignor.)
Helvig, Gilbert O., and E. Danielson, Dawson, assignors to The Automatic Traction Implement Company, Minneapolis, Minn. Combined motor and traction operated implement. No. 1,023,151; Apr. 16; Sp. p. 3021; Gaz. vol. 177; p. 542.
Helwig, Nicholas, Middletown, Ohio. Driving mechanism. No. 1,016,941; Feb. 13; Sp. p. 1578; Gaz. vol. 175; p. 279.
Helwig, Nicholas, Middletown, Ohio. Calipers. No. 1,034,795; Aug. 6; Gaz. vol. 181; p. 133.
Helwig, Nicholas, Middletown, Ohio. Marking-gage. No. 1,039,055; Sept. 17; Gaz. vol. 182; p. 702.
Hemenway, Charles L., and F. W. Updegraff, Covelo, Cal. Motor-vehicle. No. 1,018,052; Feb. 20; Sp. p. 4045; Gaz. vol. 175; p. 699.
Hemme, William, Altoona, Kans. Stop-valve. No. 1,018,560; Feb. 27; Sp. p. 5215; Gaz. vol. 175; p. 906.
Hemmer, Mathew, Syracuse, N. Y. Combined boat lift and shaft-hanger. No. 1,034,110; July 30; Gaz. vol. 180; p. 1264.
Hemmer, Mathew, Syracuse, N. Y. Adjustable bearing for boat-shafts. No. 1,037,621; Sept. 3; Gaz. vol. 182; p. 148.
Hemmeter, Henry C., assignor of one-half to C. C. Van Wagoner, Pontiac, Mich. Attachment to spark-plugs. No. 1,022,192; Apr. 2; Sp. p. 934; Gaz. vol. 177; p. 149.
Hemming Brothers Company, The. (See Greiner, Charles, assignor.)
Hemming, Emile, Passaic, assignor to Hemming Manufacturing Company, Garfield, N. J. Insulating compound and making the same. No. 1,025,268; May 7; Sp. p. 349; Gaz. vol. 178; p. 57.
Hemming, Emile, Passaic, assignor to Hemming Manufacturing Company, Garfield, N. J. Making insulating materials. No. 1,039,940; Oct. 1; Gaz. vol. 183; p. 89.
Hemming Manufacturing Company. (See Hemming, Emile, assignor.)
Hemming, Victor, New York, N. Y., assignor to H. Krantz Manufacturing Company. Magnetic clutch. No. 1,038,131; Sept. 10; Gaz. vol. 182; p. 352.
Hempel, Albert H. (See Bunker and Hempel.)
Hempel, Albert, Leipzig-Oetzsch, Germany. Producing formates. No. 1,017,261; Feb. 13; Sp. p. 2298; Gaz. vol. 175; p. 391.
Hempel, Albert, Leipzig-Oetzsch, Germany. Medicinal bath. No. 1,022,627; Apr. 9; Sp. p. 1845; Gaz. vol. 177; p. 323.
Hemphill, Joshua D., Central Falls, R. I. Sinker-actuating means for revoluble-cylinder knitting-machines. No. 1,015,733; Jan. 23; Sp. p. 5825; Gaz. vol. 174; p. 993.
Hemphill, Joshua D., Central Falls, R. I. Web-holder for knitting-machines. No. 1,048,965; Dec. 31; Gaz. vol. 185; p. 1231.
Hemphill, Samuel C., Garden City, and H. V. Welch, Macksville, Kans.; said Welch assignor to said Hemphill. Oil-burner. No. 1,048,310; Dec. 24; Gaz. vol. 185; p. 967.
Hemsted, Alfred R. (See Parsons, Greaves, and Hemsted.)
Henberger, John, North Chillicothe, Ill. Tie-plate. No. 1,038,578; Sept. 17; Gaz. vol. 182; p. 540.
Hendee, Edward T., Chicago, Ill. Boiler-flue rattler. No. 1,023,379; Apr. 16; Sp. p. 3475; Gaz. vol. 177; p. 620.
Hendershot, Daniel H., Baldwinsville, N. Y. Shaft-coupling. No. 1,043,229; Nov. 5; Gaz. vol. 184; p. 66.
Henderson, Albert H., assignor to The Henderson Rubber Company, Baltimore, Md. Composition of matter. No. 1,020,497; Mar. 19; Sp. p. 3154; Gaz. vol. 176; p. 567.
Henderson, Albert H., assignor to The Henderson Rubber Company, Baltimore, Md. Treatment of rawhide. No. 1,020,498; Mar. 19; Sp. p. 3155; Gaz. vol. 176; p. 567.
Henderson, Albert H., assignor to The Henderson Rubber Company, Baltimore, Md. Fabric or cloth. No. 1,020,499; Mar. 19; Sp. p. 3158; Gaz. vol. 176; p. 568.
Henderson, Alexander M. (See Henderson, William and A. M.)
Henderson, Andrew J., Saratoga, Tex. Standing-valve. No. 1,025,977; May 14; Sp. p. 1933; Gaz. vol. 178; p. 334.
Henderson, Archibold T., Princeton, Iowa. Follower for barrels and kegs. No. 1,045,287; Nov. 26; Gaz. vol. 184; p. 870.
Henderson, Clarence M., Berkeley, Cal. Valve for impact molding-machines. No. 1,048,692; Dec. 31; Gaz. vol. 185; p. 1138.
Henderson, Clark T., assignor to The Cutler-Hammer Manufacturing Company, Milwaukee, Wis. Starting device. No. 1,042,791; Oct. 29; Gaz. vol. 183; p. 1186.
Henderson, Edwin D., Jr. (See Wenig, John, assignor.)
Henderson, Elias H., assignor, by mesne assignments, to Henderson Scaffold Hoist Company, Chicago, Ill. Scaffold-supporting means. No. 1,035,702; Aug. 13; Gaz. vol. 181; p. 470.
Henderson, Elias H., assignor, by mesne assignments, to Henderson Scaffold Hoist Company, Chicago, Ill. Scaffold-supporting mechanism. No. 1,035,703; Aug. 13; Gaz. vol. 181; p. 470.
Henderson, Elias H., assignor, by mesne assignments, to Henderson Scaffold Hoist Company, Chicago, Ill. Scaffold-supporting mechanism. No. 1,038,579; Sept. 17; Gaz. vol. 182; p. 540.
Henderson, Eugene V., Leavenworth, Kans. Aquatic life-preserver. No. 1,023,380; Apr. 16; Sp. p. 3478; Gaz. vol. 177; p. 620.
Henderson, Frank, and T. L. Essick, Summit, S. D. Method and apparatus for forming concrete piles. No. 1,047,632; Dec. 17; Gaz. vol. 185; p. 709.
Henderson, George, Dorchester, Mass. Tap or nipple for earthenware containers. No. 1,043,230; Nov. 5; Gaz. vol. 184; p. 66.
Henderson, George A., Charleston, W. Va. Fibrous composition and making the same. No. 1,040,321; Oct. 8; Gaz. vol. 183; p. 249.
Henderson, George B. (See Woolslare, Harry A., assignor.)
Henderson, George R. (See Vauclain and Henderson.)
Henderson, George R., assignor, by mesne assignments, to The Baldwin Locomotive Works, Philadelphia, Pa. Locomotive. No. 1,013,771; Jan. 2; Sp. p. 1506; Gaz. vol. 174; p. 238.
Henderson, George R., assignor to The Baldwin Locomotive Works, Philadelphia, Pa. Section for boilers and other containers. No. 1,025,697; May 7; Sp. p. 1304; Gaz. vol. 178; p. 203.
Henderson, Henry, Halsted, Minn. Shock-loader. No. 1,040,539; Oct. 8; Gaz. vol. 183; p. 324.
Henderson, James C., Fayette City, assignor of one-half to J. C. Rodock, New Salem, Pa. Combination-tool. No. 1,036,491; Aug. 20; Gaz. vol. 181; p. 781.
Henderson, John A. (See Griggs and Henderson.)
Henderson, John C., San Francisco, Cal. Starter for engines. No. 1,038,132; Sept. 10; Gaz. vol. 182; p. 352.
Henderson, Joseph J., San Diego county, Cal. Reservoir and channel cleaner, silt-conserver, and levee-protector. No. 1,042,792; Oct. 29; Gaz. vol. 183; p. 1187.
Henderson, Minor J., Tiadaghton, Pa., assignor to E. C. Atkins & Company, Indianapolis, Ind. Crosscut-saw-filing tool. No. 1,030,176; June 18; Sp. p. 4568; Gaz. vol. 179; p. 790.
Henderson, Robert H., East Orange, N. J., assignor to Westinghouse Lamp Company. Electric illuminating device. No. 1,024,573; Apr. 30; Sp. p. 6108; Gaz. vol. 177; p. 1080.
Henderson, Robert H., East Orange, N. J., assignor to Westinghouse Lamp Company. Electric incandescent lamp. No. 1,046,785; Dec. 10; Gaz. vol. 185; p. 385.
Henderson Rubber Company, The. (See Henderson, Albert H., assignor.)
Henderson Scaffold Hoist Company. (See Henderson, Elias H., assignor.)
Henderson, William and A. M., Aurora, Ill. Capsule. No. 1,024,259; Apr. 23; Sp. p. 5373; Gaz. vol. 177; p. 941.
Henderson, William G., Cleveland, Ohio. Grip-control mechanism for motor-cycles. No. 1,022,081; Apr. 2; Sp. p. 695; Gaz. vol. 177; p. 111.
Henderson, William M. (See Reinoehl and Henderson.)
Henderson, William M., Steelton, Pa. Switch-stand. No. 1,031,445; July 2; Gaz. vol. 180; p. 208.
Henderson, William M., Steelton, Pa. Railway-rail support. No. 1,045,550; Nov. 26; Gaz. vol. 184; p. 964.
Henderson, William P., Asheville, N. C. Clothes-line. No. 1,042,345; Oct. 22; Gaz. vol. 183; p. 1002.
Henderson, William W., assignor to Hydraulic Clutch Drive Co., Washington, D. C. Fluid-clutch. No. 1,032,283; July 9; Gaz. vol. 180; p. 537.
Hendrick, Charles S., Clinton, Ill. Cherry-seeder. No. 1,035,008; Aug. 6; Gaz. vol. 181; p. 203.
Hendricks, Alpha O., Antelope, Mont. Twine-holder. No. 1,035,188; Aug. 13; Gaz. vol. 181; p. 294.
Hendricks, Augustin, Grand Rapids, Mich. Metallic mirror-panel. No. 1,027,540; May 28; Sp. p. 5380; Gaz. vol. 178; p. 942.
Hendricks, Frank, Los Angeles, Cal. Reversible casing-wrench. No. 1,040,540; Oct. 8; Gaz. vol. 183; p. 324.
Hendricks, Fred R. (See Hendricks, Henry, assignor.)
Hendricks, Henry, assignor of one-half to F. R. Hendricks, Alton, Ill. Rotary gasolene-engine. No. 1,034,451; Aug. 6; Gaz. vol. 181; p. 17.
Hendricks, James S., Colville, Wash. Gate. No. 1,024,630; Apr. 30; Sp. p. 6250; Gaz. vol. 177; p. 1100.
Hendricks, James S., Colville, Wash. Farm-gate. No. 1,024,686; Apr. 30; Sp. p. 6360; Gaz. vol. 177; p. 1120.
Hendricks, John T. (See Rosenberger and Hendricks.)
Hendricks, Murray, Benwood, W. Va. Air-hose coupling. No. 1,033,890; July 30; Gaz. vol. 180; p. 1187.
Hendricks, Samuel C., and G. E. Bowles, Hannibal, Mo. Mail receiving and delivering apparatus. No. 1,020,201; Mar. 12; Sp. p. 2556; Gaz. vol. 176; p. 434.

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Hendricksen, Carl, Seattle, Wash. Running-gear for motor-cycles. No. 1,022,675; Apr. 9; Sp. p. 1956; Gaz. vol. 177; p. 340.
Hendrickson, Fred K., assignor to Prentice Bros. Company, Worcester, Mass. Belt-tightener for drills. No. 1,019,639; Mar. 5; Sp. p. 1397; Gaz. vol. 176; p. 214.
Hendrickson, Frederick V., Kellettville, Pa. Wrench. No. 1,015,181; Jan. 16; Sp. p. 4609; Gaz. vol. 174; p. 777.
Hendrickson, John R., Edmonton, Alberta, Canada. Aeroplane. No. 1,029,754; June 18; Sp. p. 3663; Gaz. vol. 179; p. 646.
Hendrie, John, Racine, Wis. Self-filling fountain-pen. No. 1,021,673; Mar. 26; Sp. p. 5645; Gaz. vol. 176; p. 1016.
Hendry, Thompson W., Deal Island, Md. Sectional vault. No. 1,031,552; July 2; Gaz. vol. 180; p. 245.
Henehan, Martin J., Seattle, Wash. Railway tongue-switch. No. 1,048,452; Dec. 24; Gaz. vol. 185; p. 1015.
Hengell, Edward M., San Francisco, Cal. Electric water-heater. No. 1,026,862; May 21; Sp. p. 3892; Gaz. vol. 178; p. 672.
Henger, C. W. (See Herskovitz, Max, assignor.)
Hengerer, Louis, trustee. (See Ryan, Walter S., assignor.)
Hengler & Cronemeyer. (See Storme, Peter, assignor.)
Hengy, Frank J., Dallas, Tex. Suspenders. No. 1,032,901; July 16; Gaz. vol. 180; p. 791.
Henke, Albert G., Jr., De Smet, S. D. Low-water alarm. No. 1,031,262; July 2; Gaz. vol. 180; p. 146.
Henken, Henry, Savannah, Ga. Starting device. No. 1,029,290; June 11; Sp. p. 2636; Gaz. vol. 179; p. 447.
Henkle, Frank G., assignor of two-fifths to O. Bray, Indianapolis, Ind. Elevator automatic safety appliance. No. 1,044,174; Nov. 12; Gaz. vol. 184; p. 425.
Henle, Leo, New York, N. Y. Day and night glass. No. 1,042,346; Oct. 22; Gaz. vol. 183; p. 1002.
Henley, Edward. (See Cunningham and Buxton, assignors.)
Henley, Frank H. (See Snideman and Henley.)
Henley, John W. (See Holcombe, Luther E., assignor.)
Henley, Richard, Wilkes-Barre, Pa. Brake. No. 1,027,332; May 21; Sp. p. 4954; Gaz. vol. 178; p. 834.
Henley, S. M. (See Waite, William T., assignor.)
Henn, Edwin C., assignor to The National Acme Manufacturing Co., Cleveland, Ohio. Die and carrier. No. 1,038,580; Sept. 17; Gaz. vol. 182; p. 541.
Henn, William A., Evansville, Ind. Ball-cock for flush-tanks. No. 1,033,100; July 23; Gaz. vol. 180; p. 896.
Hennebique, François, Paris, France. Road-bed of railway-tracks. No. 1,043,764; Nov. 5; Gaz. vol. 184; p. 252.
Hennebutte, Henri, Paris, France. Conversion of coal-tar, petroleum residues, creosote and schist oils, and the like, into pitch. No. 1,044,175; Nov. 12; Gaz. vol. 184; p. 426.
Henneger, Edgar, *et al.* (See Carhart, Charles M., assignor.)
Hennelly, Andrew F. (See Feely and Hennelly.)
Hennessy, Leo M., Providence, R. I. Oil-burner. No. 1,019,640; Mar. 5; Sp. p. 1399; Gaz. vol. 176; p. 214.
Henneuse, Clarence A., Berkeley, assignor of two-thirds to A. C. Johnson and F. D. Calkins, Sunnyvale, Cal. Traction apparatus. No. 1,041,280; Oct. 15; Gaz. vol. 183; p. 611.
Henney, Bernard J. (See De Haven, Jonathan C., assignor.)
Hennig, Gustav K., Wahren, near Leipzig, assignor to Ludwig Hupfeld Aktiengesellschaft, Leipzig, Germany. Expression device for mechanically-operated violins. No. 1,025,397; May 7; Sp. p. 646; Gaz. vol. 178; p. 101.
Hennig, Gustav K., Wahren, near Leipzig, assignor to Ludwig Hupfeld Aktiengesellschaft, Leipzig, Germany. Means to assist tuning pneumatically-operated musical instruments. No. 1,038,581; Sept. 17; Gaz. vol. 182; p. 541.
Henning, Albert, Leytonstone, England. Apparatus for cleaning various materials. No. 1,035,876; Aug. 20; Gaz. vol. 181; p. 567.
Henning, Charles T., Brooklyn, assignor to Pompeian Paint Company, New York, N. Y. Compounding a preservative composition. No. 1,035,789; Aug. 13; Gaz. vol. 181; p. 498.
Henning, Georg F. E., Bergedorf, near Hamburg, Germany. Coin-handling apparatus. No. 1,043,006; Oct. 29; Gaz. vol. 183; p. 1260.
Henning, John, assignor of one-fourth to M. D. Schindler and one-fourth to G. L. Hatsel, Augusta, Ga. Self-oiling device. No. 1,026,952; May 21; Sp. p. 4137; Gaz. vol. 178; p. 705.
Henning, John, and H. A. Nelson, St. Paul, Minn. Kerosene-burner. No. 1,037,003; Aug. 27; Gaz. vol. 181; p. 984.
Henninger, Friedrich, Deutz, near Cologne, Germany. Reversing mechanism for internal-combustion engines. No. 1,013,491; Jan. 2; Sp. p. 880; Gaz. vol. 174; p. 141.
Henningsen, F. A. (See Berthelsen, Anders L., assignor.)
Henrich, Henry, New York, N. Y. Ring-forming machine. No. 1,024,004; Apr. 23; Sp. p. 4786; Gaz. vol. 177; p. 850.
Henrich, Henry, New York, N. Y. Machine for rolling finger-rings. No. 1,026,983; May 21; Sp. p. 4190; Gaz. vol. 178; p. 715.
Henrich, Henry, New York, N. Y. Forming rings. No. 1,045,841; Dec. 3; Gaz. vol. 185; p. 16.
Henrich, Peter, Hoquiam, Wash. Berry-box. No. 1,018,318; Feb. 20; Sp. p. 4599; Gaz. vol. 175; p. 790.
Henrichsen, Christian V., Copenhagen, Denmark. Pulsator for pneumatic milking. No. 1,045,402; Nov. 26; Gaz. vol. 184; p. 909.
Henricks Novelty Company, The. (See Smith, Leon R., assignor.)
Henrikson, Edwin C., Tioga, N. D. Table-caster. No. 1,016,745; Feb. 6; Sp. p. 1145; Gaz. vol. 175; p. 177.
Henrikson, Emanuel. (See Hanson and Henrikson.)
Henriod, Charles E., Neuilly-sur-Seine, assignor to Societe Ribeyrolles & Cie., Puteaux, Seine, France. Four-phase single-piston, valveless motor. No. 1,029,192; June 11; Sp. p. 2428; Gaz. vol. 179; p. 414.
Henriques, Charles O., Jersey City, N. J. Producing art-plaques. No. 1,014,472; Jan. 9; Sp. p. 3050; Gaz. vol. 174; p. 506.
Henry, Albert, Paris, France. Ferroconcrete sleeper. No. 1,036,234; Aug. 20; Gaz. vol. 181; p. 692.
Henry, Augustus M., New York, N. Y., assignor, by mesne assignments, to M. C. Baker, Stamford, Conn. Bulletin-board. No. 1,043,765; Nov. 5; Gaz. vol. 184; p. 252.
Henry, Beulah L., assignor of one-half to W. T. Woodley, Charlotte, N. C. Ice-cream freezer. No. 1,037,762; Sept. 3; Gaz. vol. 182; p. 196.
Henry, Charles A., Chicago, Ill. Adjustable metallic frame for screens and the like. No. 1,038,367; Sept. 10; Gaz. vol. 182; p. 431.
Henry, Charles P., and F. H. Shaw, Providence, R. I., assignors to C. P. Henry Novelty Company. Machine for forming corrugated curtain-rod heads. No. 1,034,796; Aug. 6; Gaz. vol. 181; p. 133.
Henry F. Miller & Sons Piano Company. (See Miller, William T., assignor.)
Henry, Frank R., assignor to Majestic Manufacturing Company, St. Louis, Mo. Riveted structure. No. 1,026,674; May 21; Sp. p. 3483; Gaz. vol. 178; p. 608.
Henry, Frank R., assignor to Majestic Manufacturing Company, St. Louis, Mo. Water-tank attachment for ranges or stoves. No. 1,031,263; July 2; Gaz. vol. 180; p. 147.
Henry, Frank R., assignor to Majestic manufacturing Company, St. Louis, Mo. Oven-door frame. No. 1,044,046; Nov. 12; Gaz. vol. 184; p. 382.
Henry G. Thompson & Son Company, The. (See Carr, James, assignor.)
Henry G. Thompson & Son Company, The. (See Fairbanks, Leonard M., assignor.)
Henry, George E., Vincennes, Ind. Electric-controller crank. No. 1,027,129; May 21; Sp. p. 4557; Gaz. vol. 178; p. 765.
Henry, George E., Vincennes, Ind. Trolley-wheel. No. 1,043,103; Nov. 5; Gaz. vol. 184; p. 19.
Henry, George J., Jr., San Francisco, Cal. Thrust-bearing. No. 1,020,552; Mar. 19; Sp. p. 3278; Gaz. vol. 176; p. 586.
Henry, George J., Jr., San Francisco, Cal. Governor-controlled mechanism for hydraulic nozzles. No. 1,038,133; Sept. 10; Gaz. vol. 182; p. 353.
Henry, George L., assignor to The Henry Manufacturing Company, New York, N. Y. Starting device for internal-combustion engines. No. 1,015,272; Jan. 16; Sp. p. 4802; Gaz. vol. 174; p. 808.
Henry, Guilford W., St. Louis, Mo. Folding davenport. No. 1,032,543; July 16; Gaz. vol. 180; p. 669.
Henry, Hayes W., Melvern, Kans. Vehicle-wheel. No. 1,019,896; Mar. 12; Sp. p. 1911; Gaz. vol. 176; p. 332.
Henry, Howard D. (See Bayless and Henry.)
Henry, James M., Pittsburgh, Pa. Can-making machinery. No. 1,041,787; Oct. 22; Gaz. vol. 183; p. 816.
Henry, John, Grand Forks, N. D. Grain-door. No. 1,029,061; June 11; Sp. p. 2150; Gaz. vol. 179; p. 370.
Henry, John A. (See Kish and Henry.)
Henry, John W., Crawfordsville, Ind. Mail-box. No. 1,041,788; Oct. 22; Gaz. vol. 183; p. 816.
Henry, Lyman I., *et al.* (See Callaway, David A., assignor.)
Henry Manufacturing Company, The. (See Henry, George L., assignor.)
Henry, Peyton J., Charlotte, N. C. Talking-machine attachment. No. 1,036,492; Aug. 20; Gaz. vol. 181; p. 781.
Henry R. Worthington. (See De Laval, George, assignor.)
Henry R. Worthington. (See Mueller, Otto H., assignor.)
Henry R. Worthington. (See Sebald, Joseph H., assignor.)
Henry, Robert, Blue Lake, Cal. Cuspidor-lifter. No. 1,026,354; May 14; Sp. p. 2801; Gaz. vol. 178; p. 465.
Henry, William, Philadelphia, Pa. Valve for internal-combustion engines. No. 1,034,707; Aug. 6; Gaz. vol. 181; p. 102.
Henry, William, Philadelphia, Pa. Valve for internal-combustion engines. No. 1,034,708; Aug. 6; Gaz. vol. 181; p. 102.
Henry, William, Wellsburg, W. Va. Blank-reversing mechanism for glass-molds. No. 1,046,185; Dec. 3; Gaz. vol. 185; p. 132.
Henry, William D., Pittsburgh, Pa. Metallic draft member. No. 1,019,736; Mar. 5; Sp. p. 1576; Gaz. vol. 176; p. 245.

Alphabetical list of patentees—Continued.

Henry, William K., assignor to The American Hardware Corporation, New Britain, Conn. Door-check stop. No. 1,028,460; June 4; Sp. p. 877; Gaz. vol. 179; p. 132.
Henry, William S., Rochester, assignor to General Railway Signal Company, Gates, N. Y. Electric lock. No. 1,028,568; June 4; Sp. p. 1102; Gaz. vol. 179; p. 167.
Henry, William S., Rochester, assignor to General Railway Signal Company, Gates, N. Y. Polarized relay. No. 1,030,811; June 25; Sp. p. 6266; Gaz. vol. 179; p. 1056.
Henry & Wright Manufacturing Company, The. (See Bayrer, William J., assignor.)
Henry Zimmern & Company. (See Griffin, George A., assignor.)
Henschel, Charles J. (See Bliss, Donald M., assignor.)
Hensel Silk Manufacturing Company, The. (See Müller, Herman J., assignor.)
Hensle, George, New York, N. Y. Burglar-proof door attachment. No. 1,043,231; Nov. 5; Gaz. vol. 184; p. 66.
Henslee, Arthur, Villa Rica, Ga. Planter. No. 1,031,338; July 2; Gaz. vol. 180; p. 172.
Hensler, Adolph F., *et al.* (See Beers, Charles F., assignor.)
Hensler, Adolph F., *et al.* (See Koerner, Ferdinand H., assignor.)
Hensler, John, *et al.* (See Beers, Charles F., assignor.)
Hensley, Alverda J., Clinton, Ill. Corset attachment. No. 1,031,069; July 2; Gaz. vol. 180; p. 79.
Hensley, Verne, Central City, Nebr. Manure-loader. No. 1,045,842; Dec. 3; Gaz. vol. 185; p. 16.
Henson, Edward F., trustee. (See Reith, George C., assignor.)
Henson, Edward F., trustee. (See Reith and Flade, assignors.)
Henson, John W., New York, N. Y. Sealed package. No. 1,016,149; Jan. 30; Sp. p. 6699; Gaz. vol. 174; p. 1164.
Henszey, Harold L., Philadelphia, Pa. Locomotive-superheater. No. 1,026,863; May 21; Sp. p. 3893; Gaz. vol. 178; p. 672.
Hentschel, Arthur W. (See Kenter and Hentschel.)
Henzelmann, Fritz, Chicago, Ill. Retainer for ball-bearings. No. 1,034,111; July 30; Gaz. vol. 180; p. 1264.
Henzi, Albert A., assignor to The Goss Printing Press Company, Chicago, Ill. Roll-holder for printing-presses. No. 1,028,213; June 4; Sp. p. 344; Gaz. vol. 179; p. 47.
Hepburn, Martin E., Elgin, Ill. Electric horn. No. 1,045,706; Nov. 26; Gaz. vol. 184; p. 1019.
Hepfinger, William, Tilden, Nebr. Water-cooler. No. 1,020,982; Mar. 26; Sp. p. 4215; Gaz. vol. 176; p. 783.
Hepp, Daniel, Chicago, Ill. Combined tie and collar fastener. No. 1,019,324; Mar. 5; Sp. p. 719; Gaz. vol. 176; p. 112.
Hepworth, Cecil M., London, England. Apparatus for synchronously operating combined kinematographs and sound-production apparatus. No. 1,023,846; Apr. 23; Sp. p. 4434; Gaz. vol. 177; p. 796.
Herald, John W., Galveston, Tex. Making salve. No. 1,022,239; Apr. 2; Sp. p. 1035; Gaz. vol. 177; p. 165.
Herb, Frederick. (See Kinney, Daniel R., assignor.)
Herber, John, and F. Slater, Cleveland, Ohio. Milk-bottle holder. No. 1,030,402; June 25; Sp. p. 5105; Gaz. vol. 179; p. 910.
Herbert, Arthur W., assignor to The General Fireproofing Company, Youngstown, Ohio. Metal reinforcement for concrete structures. No. 1,046,186; Dec. 3; Gaz. vol. 185; p. 133.
Herbert, John W., Natick, R. I. Loom. No. 1,016,009; Jan. 30; Sp. p. 6413; Gaz. vol. 174; p. 1116.
Herbert, Pitt H., assignor to American Optical Company, Southbridge, Mass. Eyeglasses. No. 1,036,843; Aug. 27; Gaz. vol. 181; p. 931.
Herbert, William P., Philadelphia, Pa. Air-pressure-creating device for gasolene-supply to engines, &c. No. 1,023,565; Apr. 16; Sp. p. 3850; Gaz. vol. 177; p. 678.
Herbin, Frederick L., Swampscott, assignor of one-half to T. J. Gallivan, Lynn, Mass. Folding rack. No. 1,015,182; Jan. 16; Sp. p. 4610; Gaz. vol. 174; p. 778.
Herblin, William L., Gainesville, Tex. Spigot. No. 1,033,244; July 23; Gaz. vol. 180; p. 946.
Herbold, Henry H., Thayer, and C. Hegner, Cainesville, Mo.; said Herbold assignor to said Hegner. Safety-stop for mine-cars. No. 1,019,249; Mar. 5; Sp. p. 533; Gaz. vol. 176; p. 85
Herbold, Philip, Galion, Ohio. Convertible bed and seat. No. 1,033,012; July 16; Gaz. vol. 180; p. 827.
Herbold, Philip, Galion, Ohio. Convertible bed and seat. No. 1,033,013; July 16; Gaz. vol. 180; p. 827.
Herboldsman, Louis J., and G. L. Eppihimer, assignors to M. A. Stokes and Company, Malden, Mo. Sifter. No. 1,018,904; Feb. 27; Sp. p. 5930; Gaz. vol. 175; p. 1022.
Herbst, Frederick, Danville, Ill. Hair-pin. No. 1,020,904; Mar. 19; Sp. p. 4032; Gaz. vol. 176; p. 704.
Herbst, Martin, assignor to Bastian Brothers Company, Rochester, N. Y. Easel. No. 1,046,786; Dec. 10; Gaz. vol. 185; p. 385.
Herbst, Roger R., assignor of one-half to G. D. Kugler, Freeland, Pa. Cored carbon electrode for arc-lamps. No. 1,042,554; Oct. 29; Gaz. vol. 183; p. 1103.
Hercules Manufacturing Company. (See Olson, Charles S., assignor.)
Hercules Motor Truck Company. (See Eckhard, John, assignor.)
Hercules Tire & Rubber Company. (See McCool, William A., assignor.)
Hering, Ardo, Philadelphia, Pa. Stand. No. 1,015,183; Jan. 16; Sp. p. 4613; Gaz. vol. 174; p. 778.
Hering, Michael, Arlington, N. J. Furniture-spring. No. 1,033,101; July 23; Gaz. vol. 180; p. 896.
Herisse, Emile, New York, N. Y. Depositing-machine. No. 1,014,874; Jan. 16; Sp. p. 3986; Gaz. vol. 174; p. 674.
Herlinger, S. (See Buttress, Joseph A., assignor.)
Herlinger, Siegfried, New York, N. Y. Igniter. No. 1,033,801; July 30; Gaz. vol. 180; p. 1154.
Herman, Albert L., Prosper, Oreg. Reversing-gearing. No. 1,018,972; Feb. 27; Sp. p. 6079; Gaz. vol. 175; p. 1046.
Herman, Charles H., Medford, Oreg. Attachment for vehicles. No. 1,037,908; Sept. 10; Gaz. vol. 182; p. 279.
Herman, Christopher. (See Frank and Herman.)
Herman, Jacob A., New York, N. Y. Skirt. No. 1,038,134; Sept. 10; Gaz. vol. 182; p. 353.
Herman, Jacob A., New York, N. Y. Maternity-gown. No. 1,043,232; Nov. 5; Gaz. vol. 184; p. 66.
Herman, John E., Rochester, N. Y. Egg-carrier. No. 1,029,542; June 11; Sp. p. 3184; Gaz. vol. 179; p. 534.
Herman, John H., and B. J. Weger, Napier, New Zealand. Deep-well-boring apparatus. No. 1,046,294; Dec. 3; Gaz. vol. 185; p. 173.
Herman, Joseph F., Washington, D. C. Overshoe for horses. No. 1,039,736; Oct. 1; Gaz. vol. 183; p. 23.
Herman, Karl I., Chicago, Ill. Shipping-case. No. 1,019,471; Mar. 5; Sp. p. 1069; Gaz. vol. 176; p. 158.
Herman, Karl I., Chicago, Ill. Machine for creasing and cutting box-blanks. No. 1,037,909; Sept. 10; Gaz. vol. 182; p. 279.
Herman, Karl I., Chicago, Ill. Blank-supporting device for stitching-machines. No. 1,045,403; Nov. 26; Gaz. vol. 184; p. 909.
Herman, Louis. (See Frank, Michael E., assignor.)
Herman, Ludwig, Cleveland, Ohio. Laundry wrapper or package for men's shirts. No. 1,018,905; Feb. 27; Sp. p. 5931; Gaz. vol. 175; p. 1022.
Hermann, Max, Santa Rosa, Cal. Index, record, and filing card. No. 1,043,049; Oct. 29; Gaz. vol. 183; p. 1275.
Herman, Willie H., Wesson, Miss. Bottle-vending machine. No 1,025,978; May 14; Sp. p. 1934; Gaz. vol. 178; p. 334.
Hermance Machine Co. (See Marsh, Calvin D., assignor.)
Hermann, Adalbert, Vienna, Austria-Hungary. Device for making plates of artificial stone. No. 1,014,221; Jan. 9; Sp. p. 2504; Gaz. vol. 174; p. 420.
Hermann, Aukam & Co. (See Leathem, James, assignor.)
Hermann, Franziska, East Helena, Mont. Hat-trimming stand. No. 1,014,393; Jan. 9; Sp. p. 2905; Gaz. vol. 174; p. 481.
Hermann, Louis, Chicago, Ill. Wrench. No. 1,022,783; Apr. 9; Sp. p. 2214; Gaz. vol. 177; p. 379.
Hermanns, Henry, Cross Roads, Md. Rotary engine. No. 1,044,782; Nov. 19; Gaz. vol. 184; p. 668.
Hermans, Josef, Herrenhausen, near Hanover, assignor to E. de Haen, Chemische Fabrik "List," Seelze, near Hanover, Germany. Manufacturing artificial threads. No. 1,034,235; July 30; Gaz. vol. 180; p. 1308.
Hermanson, Gustaf A., Chicago, Ill., assignor, by mesne assignments, to The National Malleable Castings Company, Cleveland, Ohio. Car-coupling. No. 1,049,086; Dec. 31; Gaz. vol. 185; p. 1273.
Hermsdorf, Ewald, Brunswick, Germany. System for electrically transmitting signals. No. 1,035,009; Aug. 6; Gaz. vol. 181; p. 203.
Herndon, James A. (See Ash, William D., assignor.)
Herndon, Joseph R., assignor to Oxine Gas Manufacturing Company, Fort Worth, Tex. Apparatus for making carbureted hydrogen gas. No. 1,019,714; Mar. 5; Sp. p. 1528; Gaz. vol. 176; p. 237.
Herndon, Paul H., Tampa, Fla. Egg-turning device. No. 1,018,191; Feb. 20; Sp. p. 4357; Gaz. vol. 175; p. 748.
Herndon, Paul H., Tampa, Fla. Incubator. No. 1,018,192; Feb. 20; Sp. p. 4358; Gaz. vol. 175; p. 748.
Herndon, Paul H., Tampa, Fla. Incubator. No. 1,018,357; Feb. 20; Sp. p. 4668; Gaz. vol. 175; p. 803.
Herndon, William T., assignor of one-half to G. H. Russell, Laurinburg, N. C. Sterilizer. No. 1,023,646; Apr. 16; Sp. p. 4014; Gaz. vol. 177; p. 705.
Hernlund, Wayland, Minneapolis, Minn. Gage for determining points on structural I-beams. No. 1,046,187; Dec. 3; Gaz. vol. 185; p. 133.
Hero Manufacturing Company, The. (See Douglas, Edwin R., assignor.)
Héroguez, Edouard, Aniches, France. Spring-frame for cycles. No. 1,045,025; Nov. 19; Gaz. vol. 184; p. 750.
Herold, Carl, Brünn, Austria-Hungary. Elastic tire. No. 1,016,991; Feb. 13; Sp. p. 1698; Gaz. vol. 175; p. 296.
Herold, Oswald M., Gardner, Mass. Holder for registration-numbers. No. 1,014,471; Jan. 9; Sp. p. 3049; Gaz. vol. 174; p. 506.
Heron, Shirley T., *et al.* (See Upton, Frank B., assignor.)

Alphabetical list of patentees—Continued.

Heron, Thomas J., Pittsburgh, Pa. Door-operating mechanism. No. 1,039,393; Sept. 24; Gaz. vol. 182; p. 838.
Heron, William E., *et al.* (See Upton, Frank B., assignor.)
Héroult, Paul L. T., La Praz, France. Motor. No. 1,021,521; Mar. 26; Sp. p. 5376; Gaz. vol. 176; p. 967.
Héroult, Paul L. T., La Praz, France, assignor, by mesne assignments, to Electrode Company of America, Niagara Falls, N. Y. Apparatus for graphitizing large electrodes. No. 1,029,121; June 11; Sp. p. 2282; Gaz. vol. 179; p. 390.
Héroult, Paul L. T., La Praz, France, assignor, by mesne assignments, to Electrode Company of America, Niagara Falls, N. Y. Graphitizing electrodes. No. 1,029,122; June 11; Sp. p. 2284; Gaz. vol. 179; p. 390.
Héroux, Edmond, assignor to F. X. Lewis, Springfield, Mass. Window attachment or fixture. No. 1,018,614; Feb. 27; Sp. p. 5319; Gaz. vol. 175; p. 923.
Heroy, Walter W. (See Pages, Paul H., assignor.)
Herr, Henry C., Detroit, Mich., assignor, by mesne assignments, to Fiber Barrel Machinery and Manufacturing Company, Pittsburgh, Pa. Machine for forming metal hoops. No. 1,043,832; Nov. 12; Gaz. vol. 184; p. 307.
Herr, John, assignor to Floor Sanding and Polishing Machine Company, Inc., Philadelphia, Pa. Floor-surfacing machine. No. 1,030,255; June 18; Sp. p. 4745; Gaz. vol. 179; p. 817.
Herren, Robert C., Kenton, Ohio. Humidifier. No. 1,013,772; Jan. 2; Sp. p. 1508; Gaz. vol. 174; p. 238.
Herrenschmidt & Co. (See Haas, Charles, assignor.)
Herreshoff, John B. F., assignor to Nichols Copper Co., New York, N. Y. Reverberatory furnace. No. 1,047,521; Dec. 17; Gaz. vol. 185; p. 670.
Herrguth, Frank P. (See McCarty, Douglas, and Herrguth.)
Herricht, John, New York, N. Y. Photographing-machine. No. 1,038,135; Sept. 10; Gaz. vol. 182; p. 354.
Herrick, Albert B., Ridgewood, N. J., assignor to The Electric Railway Improvement Company, Cleveland, Ohio. Making homogeneous mechanical junctures. No. 1,041,281; Oct. 15; Gaz. vol. 183; p. 611.
Herrick, Albert B., New York, N. Y., assignor to The Electric Railway Improvement Co., Cleveland, Ohio. Making homogeneous mechanical junctures. No. 1,046,464; Dec. 10; Gaz. vol. 185; p. 270.
Herrick, Bert L., Oakland, Cal. Listing and marking table. No. 1,018,053; Feb. 20; Sp. p. 4046; Gaz. vol. 175; p. 700.
Herrick, Frank. (See Schneider and Herrick.)
Herrick, George H., Fort Madison, Iowa. Spring-hub for vehicle-wheels. No. 1,044,524; Nov. 19; Gaz. vol. 184; p. 576.
Herrick, Gerardus P., New York, N. Y. Rotary engine. No. 1,014,150; Jan. 9; Sp. p. 2354; Gaz. vol. 174; p. 394.
Herrick, Gerardus P., New York, N. Y. Rotary engine. No. 1,048,158; Dec. 24; Gaz. vol. 185; p. 917.
Herrick, Gerardus P., New York, N. Y. Packing means. No. 1,048,693; Dec. 31; Gaz. vol. 185; p. 1139.
Herrick, Paul B., assignor to Oneida Community, Limited, Oneida, N. Y. Spool-package for silk, &c. No. 1,028,877; June 11; Sp. p. 1751; Gaz. vol. 179; p. 306.
Herrick, Reuben J., Carlinville, Ill. Staple-retainer. (Reissue.) No. 13,494; Dec. 10; Gaz. vol. 185; p. 504.
Herrick, William J., Chicago, Ill. Gearing. No. 1,043,931; Nov. 12; Gaz. vol. 184; p. 342.
Herrick, William J., Chicago, Ill. Clutch. No. 1,043,932; Nov. 12; Gaz. vol. 184; p. 342.
Herrig, John. (See Rosino, Bevard, and Herrig.)
Herring Brothers. (See Johnson, Jack, assignor.)
Herring, Charles M., Fort Worth, Tex. Razor-stropper. No. 1,041,789; Oct. 22; Gaz. vol. 183; p. 816.
Herring-Hall-Marvin Safe Company. (See Custer, Arnold S., assignor.)
Herring-Hall-Marvin Safe Company. (See Jacobson, Ole, assignor.)
Herriot, Frederick B., Shelton, Conn. Muffler. No. 1,042,347; Oct. 22; Gaz. vol. 183; p. 1002.
Herrmann, Alfred. (See Zunner and Herrmann.)
Herrmann, Arthur, Leipzig, Germany. Electrolytic cleansing. No. 1,041,790; Oct. 22; Gaz. vol. 183; p. 817.
Herrmann, Harry H. (See Spofford and Herrmann.)
Herrmann, Julius F., Indianapolis, Ind. Shock-absorber. No. 1,045,789; Nov. 26; Gaz. vol. 184; p. 1047.
Herrold, John, New York, N. Y. Combination tray and glass holder. No. 1,033,052; July 16; Gaz. vol. 180; p. 841.
Herron, John, assignor of one-half to J. R. Ryan, Sault Ste. Marie, Mich. Wrench. No. 1,024,075; Apr. 23; Sp. p. 4937; Gaz. vol. 177; p. 875.
Herron, John, and H. Bitters, Marquette, Mich. Journal-box. No. 1,040,322; Oct. 8; Gaz. vol. 183; p. 249.
Herschkowitsch, Mordko, assignor to Firm of C. Zeiss, Jena, Germany. Oxygen-generating composition. No. 1,027,333; May 21; Sp. p. 4954; Gaz. vol. 178; p. 834.
Hersey, Harry G., Greenville, Me. Fertilizer-mixer. No. 1,046,295; Dec. 3; Gaz. vol. 185; p. 173.
Hersey, Reginald F., Beverly, Mass. Pneumatic-tire pump-coupling. No. 1,047,409; Dec. 17; Gaz. vol. 185; p. 629.
Hershberg, Isaac, Rochester, N. Y. Coat. No. 1,028,113; June 4; Sp. p. 40; Gaz. vol. 179; p. 11.
Hershberger, Irwin S., Johnstown, Pa. Headlight for street-cars, automobiles, and other vehicles. No. 1,040,674; Oct. 8; Gaz. vol. 183; p. 374.
Hershkowitz, Tobias, New York, N. Y. Belt. No. 1,030,779; June 25; Sp. p. 6178; Gaz. vol. 179; p. 1045.
Herskovitz, Abraham. (See Otto, Emil E., assignor.)
Herskovitz, Max, Chicago, Ill., assignor of one-half to C. W. Henger, Watertown, Conn. Electric attachment-plug. No. 1,042,348; Oct. 22; Gaz. vol. 183; p. 1002.
Herskovitz, Moritz. (See Blank, Rudolph, assignor.)
Herstad, Frederik C. A., Finspång, Sweden. Device for the facilitation of the exchange of bores in rock-drills. No. 1,024,574; Apr. 30; Sp. p. 6109; Gaz. vol. 177; p. 1081.
Herstein, Henry, Brooklyn, N. Y. Clothes-drier. No. 1,029,995; June 18; Sp. p. 4195; Gaz. vol. 179; p. 727.
Hertel, Ferdinand W. (See Raybourn and Hertel.)
Hertenbein, Leon. (See Prunier and Hertenbein.)
Hertenstein, Chauncey A., and W. F. Probst, Chillicothe, Ohio. Dispensing-can. No. 1,026,582; May 14; Sp. p. 3261; Gaz. vol. 178; p. 539.
Hertenstein, Chauncey A., and W. F. Probst, Chillicothe, Ohio. Indicating device for cans. No. 1,040,675; Oct. 8; Gaz. vol. 183; p. 375.
Hertkorn, Josef, Hattersheim, Germany. Producing ketones of high boiling-points from acetone and homologues thereof. No. 1,030,177; June 18; Sp. p. 4569; Gaz. vol. 179; p. 790.
Hertner, John H. (See Cookingham and Hertner.)
Herty Turpentine Cup Company. (See Krager, Charles L., assignor.)
Hertzberg, Harry. (See Low and Hertzberg.)
Hertzberg, Harry. (See Low, Hertzberg, and Wohl.)
Hertzberg, Harry. (See Wohl and Hertzberg.)
Hertzberg, Harry, *et al.*, trustees. (See Betts, Lewis F., assignor.)
Hertzberg, Harry, *et al.*, trustees. (See Low, Abbot A., assignor.)
Hertzberg, Harry, Brooklyn, assignor to A. A. Low, Horseshoe, M. J. Wohl, New York, and H. Hertzberg, Brooklyn, N. Y., trustees. Marine compass. No. 1,022,676; Apr. 9; Sp. p. 1957; Gaz. vol. 177; p. 340.
Hertzberg, Harry, Brooklyn, assignor to A. A. Low, Horseshoe, M. J. Wohl, New York, and H. Hertzberg, Brooklyn, N. Y., trustees. Marine compass. No. 1,022,784; Apr. 9; Sp. p. 2216; Gaz. vol. 177; p. 379.
Hertzberg, Harry, Brooklyn, assignor to A. A. Low, Horseshoe, M. J. Wohl, New York, and H. Hertzberg, Brooklyn, N. Y., trustees. Marine compass. No. 1,022,785; Apr. 9; Sp. p. 2218; Gaz. vol. 177; p. 380.
Hervey, Harry. (See Winkler, Ehregott T., assignor.)
Herz, Alfred. (See Schweitzer and Herz.)
Herz, Alfred, Chicago, Ill. Carrier for pneumatic tubes. No. 1,039,394; Sept. 24; Gaz. vol. 182; p. 838.
Herz, Ludwig, Nuremberg, Germany, assignor to Papeterie de la Seine, Nanterre-sur-Seine, France. Apparatus for treating waste vegetable and textile fiber for the manufacture of paper. No. 1,039,941; Oct. 1; Gaz. vol. 183; p. 89.
Herz, Ludwig, Nuremberg, Germany, assignor to Papeterie de la Seine, Nanterre-sur-Seine, France. Treating vegetable and textile fiber, waste paper, wood-waste, and the like for conversion into paper material. No. 1,041,791; Oct. 22; Gaz. vol. 183; p. 817.
Herzberg, Ernest A. and G. H., Seattle, Wash. Plaster-board machine. No. 1,019,250; Mar. 5; Sp. p. 534; Gaz. vol. 176; p. 85.
Herzberg, George H. (See Herzberg, Ernest A. and G. H.)
Herzberg, Wilhelm, and O. Scharfenberg, Schöneberg, near Berlin, assignors to Actien Gesellschaft für Anilin Fabrikation, Berlin, Germany. Azo dye. No. 1,038,884; Sept. 17; Gaz. vol. 182; p. 647.
Herzmark, Nicolas, Paris, France. Cable for the transmission of mechanical movements. No. 1,049,233; Dec. 31; Gaz. vol. 185; p. 1322.
Herzog, Earl W., *et al.* (See Olney, Oscar C., assignor.)
Herzog, Eduard, Erlach, Austria-Hungary. Bleaching apparatus. No. 1,026,583; May 14; Sp. p. 3263; Gaz. vol. 178; p. 539.
Herzog, Felix B., deceased, New York, N. Y.; H. Herzog, executrix. Electric signaling apparatus and circuits. No. 1,028,089; May 28; Sp. p. 6587; Gaz. vol. 178; p. 1123.
Herzog, Fritz, Washington, D. C. Steam-table and dish-warmer. No. 1,044,525; Nov. 19; Gaz. vol. 184; p. 576.
Herzog, Henriette, executrix. (See Herzog, Felix B.)
Herzog, John, Saginaw, Mich. Making bulge-panels for furniture. No. 1,026,395; May 14; Sp. p. 2882; Gaz. vol. 178; p. 478.
Herzog, John, Saginaw, Mich. Desk-table. No. 1,031,791; July 9; Gaz. vol. 180; p. 369.
Herzog, Joseph J., Baltimore, Md. Nut-lock. No. 1,016,746; Feb. 6; Sp. p. 1146; Gaz. vol. 175; p. 177.
Herzog, Joseph L., New York, N. Y. Cigar-lighter. No. 1,034,617; Aug. 6; Gaz. vol. 181; p. 71.
Herzog, Mathias S., New York, N. Y. Vapor-burner. No. 1,024,575; Apr. 30; Sp. p. 6110; Gaz. vol. 177; p. 1081.
Herzog, William, Garfield, N. J. Button-grinding machine. No. 1,032,829; July 16; Gaz. vol. 180; p. 767.

Alphabetical list of patentees—Continued.

Hescock, Alvin W., Huntington, Mass. Sewing-machine. No. 1,043,422; Nov. 5; Gaz. vol. 184; p. 135.
Heseman, Louis P., Irvington, Ill. Combined horse-hitch. No. 1,041,469; Oct. 15; Gaz. vol. 183; p. 672.
Heskett, Fred R., Alton, Ill. Carrier for radiators. No. 1,014,303; Jan. 9; Sp. p. 2690; Gaz. vol. 174; p. 449.
Hess-Bright Manufacturing Company, The. (See Hess, Henry, assignor.)
Hess, Clarence, Union, Oreg. Intermittent-grip device. No. 1,025,088; Apr. 30; Sp. p. 7173; Gaz. vol. 177; p. 1258.
Hess, Edward, Rochester, N. Y. Non-refillable bottle. No. 1,032,406; July 16; Gaz. vol. 180; p. 623.
Hess, Edward B., assignor to Royal Typewriter Company, New York, N. Y. Type-writing machine. No. 1,028,214; June 4; Sp. p. 346; Gaz. vol. 179; p. 48.
Hess, Edward B., assignor to Royal Typewriter Company, New York, N. Y. Type-writing machine. No. 1,031,929; July 9; Gaz. vol. 180; p. 417.
Hess, Edward B., assignor to Royal Typewriter Company, New York, N. Y. Type-writing machine. No. 1,031,930; July 9; Gaz. vol. 180; p. 418.
Hess, Edward B., assignor to Royal Typewriter Company, New York, N. Y. Type-writing machine. No. 1,044,783; Nov. 19; Gaz. vol. 184; p. 668.
Hess Flume Company. (See Hess, George L., assignor.)
Hess, Franklin P., Lynn, Mass. Flat-work ironer. No. 1,016,992; Feb. 13; Sp. p. 1699; Gaz. vol. 175; p. 296.
Hess, Franklin P., Lynn, assignor, by mesne assignments, to Hess Manufacturing Co., Boston, Mass. Drier. No. 1,020,695; Mar. 19; Sp. p. 3601; Gaz. vol. 176; p. 633.
Hess, George H., La Grange Park, Ill. Sheet-metal door. No. 1,044,047; Nov. 12; Gaz. vol. 184; p. 382.
Hess, George L., assignor to Hess Flume Company, Denver, Colo. Flume. No. 1,020,905; Mar. 19; Sp. p. 4033; Gaz. vol. 176; p. 704.
Hess, George L., assignor to Hess Flume Company, Denver, Colo. Metallic apron intake and outlet. No. 1,041,625; Oct. 15; Gaz. vol. 183; p. 721.
Hess, George L., assignor to Hess Flume Company, Denver, Colo. Head-gate. No. 1,041,626; Oct. 15; Gaz. vol. 183; p. 722.
Hess, Harry, Frankfort, Germany, assignor to H. Strauss, New York, N. Y. Safety-razor. No. 1,024,402; Apr. 23; Sp. p. 5661; Gaz. vol. 177; p. 985.
Hess, Henry, Philadelphia, Pa. Change-gear mechanism. No. 1,020,095; Mar. 12; Sp. p. 2315; Gaz. vol. 176; p. 397.
Hess, Henry, Philadelphia, Pa. Friction-clutch. No. 1,043,423; Nov. 5; Gaz. vol. 184; p. 135.
Hess, Henry, Wawa, assignor to The Hess-Bright Manufacturing Company, Philadelphia, Pa. Separator for ball-bearings. No. 1,015,441; Jan. 23; Sp. p. 5197; Gaz. vol. 174; p. 893.
Hess, Henry, Wawa, assignor to The Hess-Bright Manufacturing Company, Philadelphia, Pa. Antifriction-bearing. No. 1,027,541; May 28; Sp. p. 5381; Gaz. vol. 178; p. 943.
Hess, Henry, Wawa, assignor to The Hess-Bright Manufacturing Company, Philadelphia, Pa. Antifriction-bearing. No. 1,027,542; May 28; Sp. p. 5383; Gaz. vol. 178; p. 943.
Hess, Henry, assignor to The Hess-Bright Manufacturing Company, Philadelphia, Pa. Ball-bearing. No. 1,023,017; Apr. 9; Sp. p. 2688; Gaz. vol. 177; p. 459.
Hess, Henry, assignor to The Hess-Bright Manufacturing Company, Philadelphia, Pa. Machine for forming grooves and the like upon the sides of rollers, &c. No. 1,023,381; Apr. 16; Sp. p. 3479; Gaz. vol. 177; p. 621.
Hess, Henry K., Philadelphia, Pa., assignor to American Copper Extracting and Refining Company. Recovering copper from its ores. No. 1,014,061; Jan. 9; Sp. p. 2175; Gaz. vol. 174; p. 364.
Hess, Julius J., St. Louis, Mo. Weeding-hook. No. 1,039,056; Sept. 17; Gaz. vol. 182; p. 702.
Hess, Le Roy R., Joliet, and A. S. Burdick, Lockport, assignors to S. J. Drew, Joliet, Ill. Vehicle-tire. No. 1,032,544; July 16; Gaz. vol. 180; p. 669.
Hess, Louis, Darmstadt, Germany. Beer-faucet. No. 1,047,410; Dec. 17; Gaz. vol. 185; p. 629.
Hess, Louis F., Ansted, W. Va. Cutter-head. No. 1,019,251; Mar. 5; Sp. p. 535; Gaz. vol. 176; p. 85.
Hess, Louis F., assignor of one-half to W. N. Page, Ansted, W. Va. Mining-machine. No. 1,032,902; July 16; Gaz. vol. 180; p. 791.
Hess Manufacturing Co. (See Hess, Franklin P., assignor.)
Hess, Martin H., Davenport, Iowa. Pneumatically-controlled drain-valve. No. 1,028,722; June 4; Sp. p. 1403; Gaz. vol. 179; p. 218.
Hess, Owen H., Nazareth, Pa. Gudgeon. No. 1,020,906; Mar. 19; Sp. p. 4035; Gaz. vol. 176; p. 704.
Hess, Robert C., Beloit, Kans. Fence fabric. No. 1,035,965; Aug. 20; Gaz. vol. 181; p. 596.
Hessberger, Johannes. (See Schönberr and Hessberger.)
Hesse, Albert, Wilmersdorf, Germany. Solution of perfumes and making the same. No. 1,017,669; Feb. 20; Sp. p. 3140; Gaz. vol. 175; p. 566.
Hesse, John J., Boston, Mass. Driving mechanism. No. 1,016,010; Jan. 30; Sp. p. 6414; Gaz. vol. 174; p. 1116.
Hesse, Walter A., Alameda, and J. T. Slaven, Oakland, Cal. Voltage-reducer. No. 1,019,641; Mar. 5; Sp. p. 1400; Gaz. vol. 176; p. 215.
Hesseln, Wilhelm J., Arnheim, Netherlands. Two-fluid galvanic cell. No. 1,032,830; July 16; Gaz. vol. 180; p. 768.
Hessenland, Max, assignor to Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany. Alizarin-red vat dyestuff and making same. No. 1,023,847; Apr. 23; Sp. p. 4438; Gaz. vol. 177; p. 797.
Hessenland, Max, assignor to Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany. Vat dyestuffs of the anthraquinone series and making same. No. 1,047,940; Dec. 24; Gaz. vol. 185; p. 844.
Hesser, Bertha, executrix. (See Hesser, Max M.)
Hesser, Max M., deceased, Chicago, Ill.; B. Hesser, executrix. Washline-rack. No. 1,035,825; Aug. 13; Gaz. vol. 181; p. 511.
Hesser, Otto, Stuttgart-Cannstatt, Germany. Machine for automatically making paper packets. No. 1,020,821; Mar. 19; Sp. p. 3871; Gaz. vol. 176; p. 676.
Hessler, Henry E., and F. W. Bast, Muscatine, Iowa. Tenon-machine gage. No. 1,020,422; Mar. 19; Sp. p. 2997; Gaz. vol. 176; p. 543.
Hessler, Sone A., Kansas City, Mo. Trunk. No. 1,019,325; Mar. 5; Sp. p. 720; Gaz. vol. 176; p. 112.
Hesson, William W., Toronto, Ontario, Canada. Device for printing on wrapping-paper. No. 1,025,137; May 7; Sp. p. 58; Gaz. vol. 178; p. 11.
Hestand, Hardy, and C. F. Dayton, assignors to G. M. Carr and R. H. Jones, Chickasha, Okla. Band-saw-filing machine. No. 1,038,885; Sept. 17; Gaz. vol. 182; p. 648.
Hester, Henry B., Galesburg, Ill. Litter-carrier. No. 1,039,737; Oct. 1; Gaz. vol. 183; p. 23.
Hester, William D., Durham, N. C. Spring-wheel. No. 1,013,656; Jan. 2; Sp. p. 1252; Gaz. vol. 174; p. 196.
Hester, Willis W., *et al.* (See Thomas, Martin E., assignor.)
Hetherington, Frederick A., Indianapolis, Ind. Paving plant. No. 1,027,334; May 21; Sp. p. 4955; Gaz. vol. 178; p. 834.
Hetlyn, Samuel, New York, N. Y. Safety-razor. No. 1,028,461; June 4; Sp. p. 878; Gaz. vol. 179; p. 132.
Hetrick, Jelbert G. (See Hoover and Hetrick.)
Hetrick, John R., Lompoc, Cal. Shoe-protector. No. 1,018,708; Feb. 27; Sp. p. 5516; Gaz. vol. 175; p. 955.
Hettrich, John, Lincoln, Nebr. Corn-harvester. No. 1,014,473; Jan. 9; Sp. p. 3051; Gaz. vol. 174; p. 506.
Hettrich, John, Lincoln, Nebr. Automobile driving-gear. No. 1,032,903; July 16; Gaz. vol. 180; p. 792.
Heublein, William A., Wilson, Minn. Hay-rack. No. 1,015,228; Jan. 16; Sp. p. 4705; Gaz. vol. 174; p. 793.
Heughes, Frederick L., Rochester, N. Y. Sidewalk-light. No. 1,030,301; June 25; Sp. p. 4877; Gaz. vol. 179; p. 872.
Heughes, Frederick L., Rochester, N. Y. Sidewalk-light. No. 1,048,694; Dec. 31; Gaz. vol. 185; p. 1139.
Heulings, William H. (See Malocsay, Francis X., assignor.)
Heurtley, Ernest S., Oxford, England. Electrical means for magnifying small mechanical effects. No. 1,029,123; June 11; Sp. p. 2286; Gaz. vol. 179; p. 390.
Heuser, Herman, Chicago, Ill. Malting. No. 1,041,282; Oct. 15; Gaz. vol. 183; p. 612.
Heuser, Ralph V., Waterbury, Conn., assignor to The Roessler & Hasslacher Chemical Co., Perth Amboy, N. J. Primary battery. No. 1,015,734; Jan. 23; Sp. p. 5829; Gaz. vol. 174; p. 993.
Heuser, Ralph V., Waterbury, Conn., assignor to Roessler & Hasslacher Chemical Co., Perth Amboy, N. J. Primary battery. No. 1,015,735; Jan. 23; Sp. p. 5832; Gaz. vol. 174; p. 994.
Heuss, Hermann, assignor to The C. W. Raymond Company, Dayton, Ohio. Drier for clayware. No. 1,022,082; Apr. 2; Sp. p. 696; Gaz. vol. 177; p. 111.
Heuyard, Joshua, Terre Hill, Pa. Repairing and stretching last. No. 1,016,827; Feb. 6; Sp. p. 1318; Gaz. vol. 175; p. 203.
Hevey, Herman, Biddeford, Me. Tire-removing tool. No. 1,043,424; Nov. 5; Gaz. vol. 184; p. 135.
Hewitt, Darrell G., Pittsburgh, Pa. Combination vise and pipe-wrench. No. 1,026,036; May 14; Sp. p. 2071; Gaz. vol. 178; p. 354.
Hewitt, Edwin P., Spokane, Wash. Device for collecting sediment in steam-boilers. No. 1,035,877; Aug. 20; Gaz. vol. 181; p. 567.
Hewitt, Frank E., Toronto, Ontario, Canada. Electric heating element. No. 1,014,875; Jan. 16; Sp. p. 3990; Gaz. vol. 174; p. 675.
Hewitt, Frederick G. S., Detroit, Mich. Self-starter for automobiles. No. 1,030,583; June 25; Sp. p. 5609; Gaz. vol. 179; p. 974.
Hewitt, George H., Jr., Jersey City, N. J. Game. No. 1,013,161; Jan. 2; Sp. p. 146; Gaz. vol. 174; p. 25.
Hewitt, Henry, Jr. (See Ludwick, Wayne D., assignor.)
Hewitt, Herbert H. (See Sill, Samuel J., assignor.)
Hewitt, Herbert H., Buffalo, N. Y. Car-axle journal-box. No. 1,020,423; Mar. 19; Sp. p. 2998; Gaz. vol. 176; p. 544.

Alphabetical list of patentees—Continued.

Hewitt, Herbert H., London, England. Making radio-active beverages. No. 1,022,551; Apr. 9; Sp. p. 1681; Gaz. vol. 177; p. 298.
Hewitt, Horace B., assignor of one-half to The North Indianapolis Cradle Works, Indianapolis, Ind. Grain-cradle. No. 1,028,215; June 4; Sp. p. 348; Gaz. vol. 179; p. 48.
Hewitt, James M. (See Drake and Hewitt.)
Hewitt, Peter C., Ringwood Manor, N. J. Diffusing-container for incandescent lights. No. 1,036,527; Aug. 20; Gaz. vol. 181; p. 793.
Hewitt, Peter C., Ringwood Manor, N. J., assignor to Cooper Hewitt Electric Company. Vapor electric lamp and connection. No. 1,014,965; Jan. 16; Sp. p. 4187; Gaz. vol. 174; p. 705.
Hewitt, Peter C., Ringwood Manor, N. J., assignor to Cooper Hewitt Electric Company, New York, N. Y. Vapor electric apparatus. No. 1,025,464; May 7; Sp. p. 797; Gaz. vol. 178; p. 124.
Hewitt, Peter C., New York, N. Y., assignor to Cooper Hewitt Electric Company. Vapor electric lamp and connection. No. 1,014,705; Jan. 16; Sp. p. 3593; Gaz. vol. 174; p. 615.
Hewitt, Peter C., New York, N. Y., assignor to Cooper Hewitt Electric Company. Apparatus for the electrical production of light. No. 1,030,178; June 18; Sp. p. 4571; Gaz. vol. 179; p. 790.
Hewitt, Peter C., assignor to Cooper Hewitt Electric Company, New York, N. Y. Gas or vapor electric lamp. No. 1,030,302; June 25; Sp. p. 4878; Gaz. vol. 179; p. 873.
Hewitt, Peter C., assignor to Cooper Hewitt Electric Company, New York, N. Y. Starter for vapor electric apparatus. No. 1,031,931; July 9; Gaz. vol. 180; p. 418.
Hewitt, Peter C., assignor to Cooper Hewitt Electric Company, New York, N. Y. Electrical distribution. No. 1,043,104; Nov. 5; Gaz. vol. 184; p. 19.
Hewitt, Peter C., assignor to Cooper Hewitt Electric Company, New York, N. Y. System of electrical distribution. No. 1,043,766; Nov. 5; Gaz. vol. 184; p. 253.
Hewitt, Peter C., New York, and N. W. Rogers, Mount Vernon, N. Y., assignors, by mesne assignments, to Cooper Hewitt Electric Company. Gas or vapor electric apparatus. No. 1,030,262; June 18; Sp. p. 4764; Gaz. vol. 179; p. 820.
Hewitt, W. A. (See Muir, Farquharson J., assignor.)
Hewlett, Charlotte W., New York, N. Y. Garment-hanger. No. 1,014,597; Jan. 9; Sp. p. 3281; Gaz. vol. 174; p. 547.
Hewlett, Edward M., Schenectady, N. Y., assignor to General Electric Company. Oil-switch. No. 1,023,310; Apr. 16; Sp. p. 3346; Gaz. vol. 177; p. 597.
Hewlett, Edward M., Schenectady, N. Y., assignor to General Electric Company. Electric switch. No. 1,029,366; June 11; Sp. p. 2823; Gaz. vol. 179; p. 475.
Hewlett, Edward M., Schenectady, N. Y., assignor to General Electric Company. Expulsion-switch. No. 1,039,395; Sept. 24; Gaz. vol. 182; p. 839.
Hewlett, Edward M., Schenectady, N. Y., assignor to General Electric Company. Oil-switch. No. 1,045,288; Nov. 26; Gaz. vol. 184; p. 870.
Hewlett, Maddra J., Kewanee, Ill. Molding apparatus. No. 1,022,240; Apr. 2; Sp. p. 1036; Gaz. vol. 177; p. 165.
Hext, William. (See Macleod and Hext.)
Hey, David M., assignor to Vacuum Dyeing Machine Company, Chattanooga, Tenn. Dyeing apparatus. No. 1,027,729; May 28; Sp. p. 5758; Gaz. vol. 178; p. 1003.
Hey, Johann F., Strassburg, Germany. Pressure-regulator for boilers. No. 1,025,954; May 7; Sp. p. 1890; Gaz. vol. 178; p. 290.
Heybach, Frederick J., Baltimore, Md., assignor to American Automatic Machinery Company, Savannah, Ga. Packing-machine. No. 1,016,498; Feb. 6; Sp. p. 593; Gaz. vol. 175; p. 92.
Heybach, Frederick J., assignor to The Unit Weighing and Packing System (Incorporated), Baltimore, Md. Packer. No. 1,040,946; Oct. 8; Gaz. vol. 183; p. 462.
Heyde, Max A., assignor to S. E. Summerfield, New York, N. Y. Stocking. No. 1,020,822; Mar. 19; Sp. p. 3876; Gaz. vol. 176; p. 677.
Heydenfyldt, Thomas O., *et al.* (See Burtnett, Everett R., assignor.)
Heydlauff, Victor W., Havre, Mont. Fire-escape. No. 1,022,417; Apr. 9; Sp. p. 1381; Gaz. vol. 177; p. 253.
Heydon, Edward, Indianapolis, Ind. Trolley-splice. No. 1,036,112; Aug. 20; Gaz. vol. 181; p. 647.
Heyer, Friedrich C., Schlebusch-Manfort, Germany, assignor to E. I. du Pont de Nemours Powder Company, Wilmington, Del. Purifying monochlorhydrin. No. 1,040,323; Oct. 8; Gaz. vol. 183; p. 249.
Heyerdahl, Albert G., Orfordville, Wis. Suspension device for use in skinning small animals. No. 1,027,335; May 21; Sp. p. 4957; Gaz. vol. 178; p. 835.
Heyerly, John, near Bluffton, Ind. Fence-post brace. No. 1,025,060; Apr. 30; Sp. p. 7105; Gaz. vol. 177; p. 1249.
Heyl, Henry R., assignor to The American Paper Bottle Company, Philadelphia, Pa. Machine for making paper bottles and like objects. No. 1,018,319; Feb. 20; Sp. p. 4600; Gaz. vol. 175; p. 790.
Heyl, Henry R., assignor to The American Paper Bottle Company, Philadelphia, Pa. Machine for manufacturing paper bottles and other containers. No. 1,024,938; Apr. 30; Sp. p. 6882; Gaz. vol. 177; p. 1208.
Heyl, Henry R., assignor to The American Paper Bottle Company, Philadelphia, Pa. Machine for coating articles with paraffin or other coating material. No. 1,042,914; Oct. 29; Gaz. vol. 183; p. 1228.
Heyl & Patterson. (See Mulholland, Vergil, assignor.)
Heyl & Patterson Inc. (See Robb, Lewis J., assignor.)
Heyl & Patterson Incorporated. (See Bickley, Ross M., assignor.)
Heylandt, Christian W. P., Hamburg, Germany. Expansion-engine for producing low temperatures. No. 1,019,790; Mar. 12; Sp. p. 1694; Gaz. vol. 176; p. 295.
Heylandt, Christian W. P., Hamburg, Germany. Expansion-engine for reducing compressed gas to low temperatures. No. 1,019,791; Mar. 12; Sp. p. 1696; Gaz. vol. 176; p. 296.
Heylandt, Christian W. P., Schulau, Germany. Metallic vessel for liquefied gases. No. 1,033,398; July 23; Gaz. vol. 180; p. 997.
Heyman, Edward M., assignor to The Janesville Machine Company, Janesville, Wis. Transportation-truck for disk harrows. No. 1,020,983; Mar. 26; Sp. p. 4217; Gaz. vol. 176; p. 783.
Heyman, Edward M., assignor to The Janesville Machine Company, Janesville, Wis. Corn-planter. No. 1,021,042; Mar. 26; Sp. p. 4328; Gaz. vol. 176; p. 803.
Heyman, Edward M., Janesville, Wis. Transmission mechanism for automobiles. No. 1,032,003; July 9; Gaz. vol. 180; p. 441.
Heyman, Edward M., assignor to The Janesville Machine Company, Janesville, Wis. Drive mechanism for planters. No. 1,040,676; Oct. 8; Gaz. vol. 183; p. 375.
Heyman, George, North San Diego, Cal. Aerial toy. No. 1,033,399; July 23; Gaz. vol. 180; p. 998.
Heyman, Daniel M., Brooklyn, N. Y. Controlling-valve for combustible liquids. No. 1,049,301; Dec. 31; Gaz. vol. 185; p. 1346.
Heyman, David, New York, N. Y. Automatic igniter. No. 1,028,462; June 4; Sp. p. 880; Gaz. vol. 179; p. 132.
Heyman, Knut W., Skogstorp, Tumba, Sweden. Strainer for milk or other liquids. No. 1,035,790; Aug. 13; Gaz. vol. 181; p. 498.
Heyman, Nathan H. (See Danziger, Benno, assignor.)
Heyn, Friedrich H. C., Hamburg, Germany. Bathometer. No. 1,026,441; May 14; Sp. p. 2980; Gaz. vol. 178; p. 493.
Heynau, Hans, Nuremberg, Germany. Rotating disk for metal-dividing machines. No. 1,039,738; Oct. 1; Gaz. vol. 183; p. 23.
Heys, William E. (See Macpherson and Heys.)
Hezinger, Carl. (See Hezinger, Hugo and C.)
Hezinger, Hugo, Baldwin, and C. Hezinger, New York, N. Y. Carbureter. No. 1,028,723; June 4; Sp. p. 1405; Gaz. vol. 179; p. 219.
Hezlep, Alva C. (See Newhall, Linn, and Hezlep.)
Hiatt, William F., Pittsboro, Ind. Lightning-arrester. No. 1,014,876; Jan. 16; Sp. p. 3991; Gaz. vol. 174; p. 675.
Hibbard, Charles L., *et al.* (See Koons, Sidney, assignor.)
Hibbard, Charles L., East Orange, assignor, by mesne assignments, to Thomas A. Edison, Incorporated, West Orange, N. J. Phonograph. No. 1,023,250; Apr. 16; Sp. p. 3222; Gaz. vol. 177; p. 577.
Hibbard, Charles L., East Orange, assignor, by mesne assignments, to Thomas A. Edison, Incorporated, West Orange, N. J. Phonograph. No. 1,046,188; Dec. 3; Gaz. vol. 185; p. 134.
Hibbard, Henry D., Plainfield, N. J. Ingot-mold. No. 1,018,906; Feb. 27; Sp. p. 5932; Gaz. vol. 175; p. 1022.
Hibbard, Henry D., Plainfield, N. J. Manufacturing steel. No. 1,035,120; Aug. 6; Gaz. vol. 181; p. 239.
Hibbard, Henry D., Plainfield, N. J. Reaction apparatus. No. 1,047,052; Dec. 10; Gaz. vol. 185; p. 472.
Hibbard, Herbert O., assignor to Worcester Novelty Company, Worcester, Mass. Support for cards and the like. No. 1,020,907; Mar. 19; Sp. p. 4036; Gaz. vol. 176; p. 704.
Hibbard, Robert L. (See Rodman, Hibbard, and Carpenter.)
Hibberd, Charles E., Westminster, London, England. Coin-freed mechanism. No. 1,038,136; Sept. 10; Gaz. vol. 182; p. 354.
Hibberd, Charles E., Westminster, London, England. Gas-meter. No. 1,039,942; Oct. 1; Gaz. vol. 183; p. 90.
Hibberd, Charles E., Westminster, London, England, assignor to Hibberd Prepayment Machine Syndicate, Limited, Auckland, New Zealand. Actuating mechanism for coin-freed meters. No. 1,035,189; Aug. 13; Gaz. vol. 181; p. 294.
Hibberd Prepayment Machine Syndicate. (See Hibberd, Charles E., assignor.)
Hibbert, John E., and C. L. Huntley, Stirling City, Cal. Saw-tooth-centering indicator. No. 1,044,784; Nov. 19; Gaz. vol. 184; p. 669.
Hibbs, Frank W., Sarasota, Fla. Portable fireplace and camp crane. No. 1,032,210; July 9; Gaz. vol. 180; p. 511.
Hibbs, Frank W., Sarasota, Fla. Portable hammock-frame. No. 1,032,211; July 9; Gaz. vol. 180; p. 511.

Hibbs, R. Bazell, Orofino, Idaho. Culvert. No. 1,048,071; Dec. 24; Gaz. vol. 185; p. 886.
Hibner, De Los E., assignor to The Vulcan Soot Cleaner Company of Pittsburg, Pa., Dubois, Pa. Boiler-flue-cleaner system. No. 1,041,079; Oct. 15; Gaz. vol. 183; p. 541.
Hibner, De Los E., and F. W. Linaker, assignors to The Vulcan Soot Cleaner Company of Pittsburg, Pa., Dubois, Pa. Boiler-flue-cleaner system. No. 1,041,080; Oct. 15; Gaz. vol. 183; p. 542.
Hibner, Fredrick H. (See Hibner, John G. and F. H.)
Hibner, John G. and F. H., Iowa Falls, Iowa. Stock-rack. No. 1,043,233; Nov. 5; Gaz. vol. 184; p. 67.
Hibner, Philip D., Seattle, Wash. System of operating railway-switches and signal devices. No. 1,021,312; Mar. 26; Sp. p. 4888; Gaz. vol. 176; p. 893.
Hibner, Philip D., Seattle, Wash. Railway-switch controller. No. 1,021,313; Mar. 26; Sp. p. 4891; Gaz. vol. 176; p. 894.
Hibschman, Charles A., Springfield, Ohio. Advertising device. No. 1,048,159; Dec. 24; Gaz. vol. 185; p. 917.
Hibshman, Louis R., and H. S. Hollar, Harrisburg, Pa. Railway-joint. No. 1,018,054; Feb. 20; Sp. p. 4048; Gaz. vol. 175; p. 700.
Hiby, Walther, Sandal, near Wakefield, England. Charging of coke-ovens. No. 1,019,642; Mar. 5; Sp. p. 1402; Gaz. vol. 176; p. 215.
Hiby, Walther, Sandal, near Wakefield, England. Apparatus for charging coke-ovens. No. 1,019,643; Mar. 5; Sp. p. 1403; Gaz. vol. 176; p. 215.
Hickerson, Elmer E., McComb, Ohio. Combined gas generator and burner. No. 1,041,283; Oct. 15; Gaz. vol. 183; p. 612.
Hickey, Catherine L., Saginaw, Mich. Display-stand. No. 1,024,777; Apr. 30; Sp. p. 6547; Gaz. vol. 177; p. 1152.
Hickey, James A., North Hadley, Mass. Truck. No. 1,038,137; Sept. 10; Gaz. vol. 182; p. 354.
Hickey, John, assignor to National Pipe Bending Company, New Haven, Conn. Separator. No. 1,026,675; May 21; Sp. p. 3484; Gaz. vol. 178; p. 608.
Hickey, William B., and B. A. Toothaker, Denver, Colo. Combined nut and washer lock. No. 1,033,585; July 23; Gaz. vol. 180; p. 1058.
Hickish, Robert, Tuckahoe, N. Y. Grease-cup. No. 1,043,234; Nov. 5; Gaz. vol. 184; p. 67.
Hickle, Pryor H., and L. D. Spear, Choate, Tex. Plow-share attachment. No. 1,029,443; June 11; Sp. p. 2993; Gaz. vol. 179; p. 501.
Hickman, Frank L., *et al.* (See Runner, John B., assignor.)
Hickman, Harvey H., assignor to Corrugated Bar Company, St. Louis, Mo. Spacing and supporting device for reinforcing-bars. No. 1,024,260; Apr. 23; Sp. p. 5374; Gaz. vol. 177; p. 941.
Hickman, Samuel, Springfield, Ohio. Wheeled harrow. No. 1,015,956; Jan. 30; Sp. p. 6295; Gaz. vol. 174; p. 1096.
Hickman, Thomas D., Sheldon, Mo. Blacksmith's-post-drill attachment. No. 1,033,695; July 23; Gaz. vol. 180; p. 1093.
Hickman, William A., Pictou, Nova Scotia, Canada. Boat and boat propulsion. No. 1,044,176; Nov. 12; Gaz. vol. 184; p. 426.
Hickmott, George T., Pontiac, Mich. Water-heater. No. 1,046,591; Dec. 10; Gaz. vol. 185; p. 315.
Hickok, Lester E., *et al.* (See McCue, Charles T., assignor.)
Hickok, Robert D., Atlanta, Ga. Electric-clock system. No. 1,016,499; Feb. 6; Sp. p. 601; Gaz. vol. 175; p. 93.
Hickox, Jay R., Alliance, Nebr., and W. A. Pownall, Aurora, Ill. Fluid-treating apparatus. No. 1,048,833; Dec. 31; Gaz. vol. 185; p. 1187.
Hicks, Albertson. (See Eastman and Hicks.)
Hicks, Alfred, St. John's Wood, England. Piano-action. No. 1,016,408; Feb. 6; Sp. p. 381; Gaz. vol. 175; p. 60.
Hicks, Calvin, Auburn, Pa. Blast-furnace. No. 1,039,282; Sept. 24; Gaz. vol. 182; p. 800.
Hicks, Charles W., Sutherland, Fla. Plow. No. 1,034,233; July 30; Gaz. vol. 180; p. 1308.
Hicks, Clarence E. (See Hicks, Elmer and C. E.)
Hicks, Elmer and C. E., Montezuma, Iowa. Belt-holder for engines. No. 1,013,388; Jan. 2; Sp. p. 660; Gaz. vol. 174; p. 104.
Hicks, George J., Saginaw, Mich., assignor to R. & O. Werner, Cannstatt, Germany. Proofing-machine. No. 1,025,914; May 7; Sp. p. 1809; Gaz. vol. 178; p. 278.
Hicks, Henry A., Gerty, Okla. Gin-saw cleaner. No. 1,032,334; July 9; Gaz. vol. 180; p. 554.
Hicks, John W., Chicago, Ill., assignor to Oriental Candy Co. Forming and wrapping machine. No. 1,044,048; Nov. 12; Gaz. vol. 184; p. 382.
Hicks, William T., Bloomington, Ind. Post. No. 1,045,026; Nov. 19; Gaz. vol. 184; p. 751.
Hicks, William T., Bloomington, Ind. Wire-support for posts. No. 1,045,027; Nov. 19; Gaz. vol. 184; p. 751.
Hicks, William T., Bloomington, Ind. Mold for posts. No. 1,045,028; Nov. 19; Gaz. vol. 184; p. 751.
Hickton, Charles, assignor of one-half to W. P. Smith and one-half to J. P. Newton, Long Eaton, England. Machine-output-indicating device. No. 1,013,389; Jan. 2; Sp. p. 662; Gaz. vol. 174; p. 105.
Hide-Ite Leather Company. (See Clapp, Albert L., assignor.)
Hiecke, William, Jr., *et al.* (See Sieben and Stevenson, assignors.)
Hiemenz, Wilhelm, and W. Kropp, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Pharmaceutical product. No. 1,026,913; May 21; Sp. p. 4028; Gaz. vol. 178; p. 691.
Hiemenz, Wilhelm, and W. Kropp, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Pharmaceutical product. No. 1,026,914; May 21; Sp. p. 4029; Gaz. vol. 178; p. 691.
Hiering, Christian, and A. Fuller, assignors to The J. E. Mergott Company, Newark, N. J. Bag-frame. No. 1,024,895; Apr. 30; Sp. p. 6790; Gaz. vol. 177; p. 1193.
Hiering, Christian, and A. Fuller, assignors to J. E. Mergott Company, Newark, N. J. Bag-frame. No. 1,027,387; May 21; Sp. p. 5074; Gaz. vol. 178; p. 853.
Hiering, Christian, and A. Fuller, assignors to The J. E. Mergott Company, Newark, N. J. Bag-frame. No. 1,038,749; Sept. 17; Gaz. vol. 182; p. 601.
Hiering, Christian, and A. Fuller, assignors to J. E. Mergott Company, Newark, N. J. Forming bag-frames. No. 1,049,302; Dec. 31; Gaz. vol. 185; p. 1346.
Higbee, Orlando J. W., Pittsburgh, Pa. Vacuum wall-receptacle. No. 1,033,320; July 23; Gaz. vol. 180; p. 972.
Higdon, Howard S., Jay, Fla. Gate-latch. No. 1,040,677; Oct. 8; Gaz. vol. 183; p. 376.
Higgens, John S., Auburn, Me. Photographic-printing frame. No. 1,048,160; Dec. 24; Gaz. vol. 185; p. 918.
Higgin, Henry, Newport, Ky. Machine for making metal tubes. No. 1,019,043; Mar. 5; Sp. p. 67; Gaz. vol. 176; p. 14.
Higgin, Henry, assignor to The Higgin Manufacturing Company, Newport, Ky. Holding tubes during the operation of drawing them. No. 1,025,568; May 7; Sp. p. 1039; Gaz. vol. 178; p. 161.
Higgin, Henry, assignor of one-half to The Higgin Manufacturing Company, Newport, Ky. Cornice-brake. No. 1,029,012; June 11; Sp. p. 2058; Gaz. vol. 179; p. 354.
Higgin, Henry, assignor to Higgin Manufacturing Company, Newport, Ky. Formation of the ends of tubes for drawing purposes. No. 1,031,000; July 2; Gaz. vol. 180; p. 53.
Higgin Manufacturing Company, The. (See Higgin, Henry, assignor.)
Higginbotham, Ezekiel H. (See Higginbotham, Toliver S. and E. H.)
Higginbotham, Toliver S. and E. H., Anson, Tex. Photographic-printing machine. No. 1,013,492; Jan. 2; Sp. p. 883; Gaz. vol. 174; p. 141.
Higginbottom, James, Liverpool, England. Apparatus for separating small particles from larger particles. No. 1,022,587; Apr. 9; Sp. p. 1757; Gaz. vol. 177; p. 310.
Higgins-Albers Concrete Form Company. (See Higgins and Albers, assignors.)
Higgins, Campbell P., Roselle, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Multiple-die press. No. 1,043,520; Nov. 5; Gaz. vol. 184; p. 170.
Higgins, Daniel P., New Haven, Conn. Coin-controlled device. No. 1,018,055; Feb. 20; Sp. p. 4050; Gaz. vol. 175; p. 700.
Higgins, Edmond H., Portland, Oreg. Rail-joint. No. 1,045,843; Dec. 3; Gaz. vol. 185; p. 17.
Higgins, Francis W., assignor to The Carborundum Company, Niagara Falls, N. Y. Making abrasive articles. No. 1,013,657; Jan. 2; Sp. p. 1252; Gaz. vol. 174; p. 197.
Higgins, Frank A. (See Hummel, Franklin P., assignor.)
Higgins, Fred B., assignor to Fred B. Higgins Co., Boothbay Harbor, Me. Shipping-package for lobsters. No. 1,016,627; Feb. 6; Sp. p. 919; Gaz. vol. 175; p. 137.
Higgins, Frederick L., Ridgefield, N. J., assignor to The Meyrowitz Manufacturing Co. Lens-cutting machine. No. 1,029,367; June 11; Sp. p. 2829; Gaz. vol. 179; p. 476.
Higgins, George F., Melrose, Mass. Sifter. No. 1,045,790; Nov. 26; Gaz. vol. 184; p. 1047.
Higgins, Harry A., assignor to Diamond Power Specialty Co., Detroit, Mich. Blower for boilers. No. 1,016,993; Feb. 13; Sp. p. 1703; Gaz. vol. 175; p. 297.
Higgins, Harry A., assignor to Diamond Power Specialty Co., Detroit, Mich. Blower for boilers. No. 1,016,994; Feb. 13; Sp. p. 1704; Gaz. vol. 175; p. 297.
Higgins, Harry A., assignor to Diamond Power Specialty Co., Detroit, Mich. Blower for boilers. No. 1,042,676; Oct. 29; Gaz. vol. 183; p. 1147.
Higgins, John M., Caseyville, Ill. Acetylene-lamp. No. 1,039,535; Sept. 24; Gaz. vol. 182; p. 888.
Higgins, Robert B., and H. Albers, assignors to Higgins-Albers Concrete Form Company, St. Louis, Mo. Concrete-floor decking. No. 1,034,913; Aug. 6; Gaz. vol. 181; p. 171.
Higgins, Sylvester, Jersey City Heights, N. J. Concrete wall construction. No. 1,019,326; Mar. 5; Sp. p. 722; Gaz. vol. 176; p. 112.
Higgins, Virginia K., *et al.* (See Griessmann, Franz A., assignor.)
Higgins, Virginia K., *et al.* (See Griessmann and Gottschling, assignors.)

Alphabetical list of patentees—Continued.

Higgs, Wallace J., Lehi, Utah. Handle-fastening. No. 1,033,171; July 23; Gaz. vol. 180; p. 920.
High, Carl F., New Washington, Ohio. Exhaust-motor. No. 1,040,199; Oct. 1; Gaz. vol. 183; p. 177.
High, Carl F., Madison, Wis. Exhaust-motor. No. 1,048,311; Dec. 24; Gaz. vol. 185; p. 967.
High Frequency Ignition Coil Company. (See Seeley, James E., assignor.)
High, John E., Dickinson, N. D. Plate-lifter. No. 1,035,088; Aug. 6; Gaz. vol. 181; p. 229.
Higham, Daniel, East Orange, N. J. Mechanism for driving at uniform speeds. No. 1,031,339; July 2; Gaz. vol. 180; p. 173.
Higham, Daniel, East Orange, N. J. Phonic apparatus. No. 1,036,235; Aug. 20; Gaz. vol. 181; p. 693.
Higham, Daniel, New York, N. Y. Sound-reproducer. No. 1,034,014; July 30; Gaz. vol. 180; p. 1232.
Higham, Daniel, New York, N. Y. Apparatus for obtaining double records. No. 1,036,236; Aug. 20; Gaz. vol. 181; p. 693.
Hightshoe, Joseph M. (See Thiesing, Henry G., assignor.)
Highway Advertising Company, The. (See Richardson and Cooke, assignors.)
Higley, Eben N., assignor to M. Higley, Somersworth, N. H. Pruning implement. No. 1,025,626; May 7; Sp. p. 1169; Gaz. vol. 178; p. 180.
Higley Machine Company. (See Juengst, Charles A., assignor.)
Higley, Maude. (See Higley, Eben N., assignor.)
Higley, William M., *et al.* (See Larson, John B., assignor.)
Hignett, Samuel C., Liverpool, England. Cigar or cigarette case. No. 1,028,069; May 28; Sp. p. 6537; Gaz. vol. 178; p. 1117.
Hikes, Mirko, St. Louis, Mo. Combined window sash and screen. No. 1,038,138; Sept. 10; Gaz. vol. 182; p. 355.
Hilbert, John N. J. (See Bering and Hilbert.)
Hildebrand, Fritz. (See Hildebrand, Heinrich, H., and F.)
Hildebrand, Hans. (See Hildebrand, Heinrich, H., and F.)
Hildebrand, Harry D., Pittsburgh, Pa. Fluid-compressor. No. 1,027,841; May 28; Sp. p. 6007; Gaz. vol. 178; p. 1042.
Hildebrand, Heinrich, H., and F., Berlin, Germany. Vapor-engine. No. 1,013,773; Jan. 2; Sp. p. 1510; Gaz. vol. 174; p. 239.
Hildebrand, William R., Chicago, Ill. Water-filter. No. 1,043,933; Nov. 12; Gaz. vol. 184; p. 342.
Hilden, Wilhelm, Aix-la-Chapelle, Germany. Machine for twisting threads. No. 1,030,179; June 18; Sp. p. 4574; Gaz. vol. 179; p. 791.
Hildenbrand, Emil. (See Wacker and Hildenbrand.)
Hilding, Nils A., *et al.* (See Richer, Joseph, assignor.)
Hildreth, Alfred H., trustee. (See Prindle, Harry M., assignor.)
Hildreth, Hiram D., Hamilton, Ontario, Canada. Combined shirt and collar fastening device. No. 1,027,603; May 28; Sp. p. 5509; Gaz. vol. 178; p. 963.
Hildreth, James W., Marion, Ohio. Fly-trap. No. 1,020,500; Mar. 19; Sp. p. 3161; Gaz. vol. 176; p. 568.
Hildreth, John H., Cleveland, Va. Curtain-stretcher. No. 1,032,061; July 9; Gaz. vol. 180; p. 460.
Hildreth, John H., Cleveland, Va. Umbrella. No. 1,045,976; Dec. 3; Gaz. vol. 185; p. 62.
Hilfiker, William F., Jay county, Ind. Automatic grain-weigher. No. 1,037,249; Sept. 3; Gaz. vol. 182; p. 25.
Hilger, Jacob W., Philadelphia, Pa. Wood-bending machine. No. 1,019,472; Mar. 5; Sp. p. 1071; Gaz. vol. 176; p. 158.
Hilgert, Mathew, New York, N. Y. Making shoes. No. 1,032,672; July 16; Gaz. vol. 180; p. 714.
Hilgert, Mathew, New York, N. Y. Shoe. No. 1,039,396; Sept. 24; Gaz. vol. 182; p. 839.
Hilker, Edward, Colorado Springs, Colo. Bread-slicing board. No. 1,031,117; July 2; Gaz. vol. 180; p. 95.
Hill, Aaron, assignor of one-fourth to R. I. Blakeslee, Los Angeles, Cal. Joint for bed-frames. No. 1,042,555; Oct. 29; Gaz. vol. 183; p. 1103.
Hill, Albert D. (See Pearsall and Hill.)
Hill, Albert E., Atlanta, Ga., assignor to A. E. Hill Manufacturing Company. Machine for sharpening blades of safety-razors. No. 1,037,763; Sept. 3; Gaz. vol. 182; p. 196.
Hill, Alexander B., Hoboken, N. J. Game apparatus. No. 1,025,465; May 7; Sp. p. 800; Gaz. vol. 178; p. 125.
Hill, Ananias. (See Graham, Luther J., assignor.)
Hill, Arthur H. (See Farquhar and Hill.)
Hill, Barton B., London, England. Pneumatic tire. No. 1,036,493; Aug. 20; Gaz. vol. 181; p. 781.
Hill, Charles, Mullan, Idaho. Level. No. 1,032,904; July 16; Gaz. vol. 180; p. 792.
Hill, Charles, Mullan, Idaho. Hose-coupling. No. 1,039,536; Sept. 24; Gaz. vol. 182; p. 888.
Hill, Charles, Phoenix, British Columbia, Canada. Drawing instrument. No. 1,039,057; Sept. 17; Gaz. vol. 182; p. 702.
Hill, Charles H., Lynn, Mass. Non-slipping sole. No. 1,049,087; Dec. 31; Gaz. vol. 185; p. 1274.
Hill, Charles V., St. Louis, Mo. Street-car advertising device. No. 1,020,351; Mar. 12; Sp. p. 2837; Gaz. vol. 176; p. 481.
Hill, Charles W., Peoria, Ill. Excavator-bucket cleaner. No. 1,034,237; July 30; Gaz. vol. 180; p. 1308.
Hill, Chester L., assignor to United States Asbestos Company, Manheim, Pa. Asbestos packing. No. 1,035,190; Aug. 13; Gaz. vol. 181; p. 294.
Hill, Claudius M. (See Francisco, George T., assignor.)
Hill, Clayton G., New York, N. Y. Non-refillable bottle. No. 1,043,934; Nov. 12; Gaz. vol. 184; p. 343.
Hill, Climie E. (See Hill, Stirling B., C. E., and W. R.)
Hill, Commodore P. (See Tesreau, Sundman, and Hill.)
Hill, Daniel B., Grayville, Ill. Motor-plow. No. 1,019,252; Mar. 5; Sp. p. 537; Gaz. vol. 176; p. 85.
Hill, Edward, Salt Lake City, Utah, assignor of one-half to T. A. Hill, Denver, Colo. Window-lock. No. 1,023,647; Apr. 16; Sp. p. 4015; Gaz. vol. 177; p. 705.
Hill, Edward A., assignor to Chicago Car Door Company, Chicago, Ill. Weather-strip construction for freight-car doors. No. 1,033,172; July 23; Gaz. vol. 180; p. 920.
Hill, Edward W., Jamaica, N. Y. Loose-leaf-book construction. No. 1,035,878; Aug. 20; Gaz. vol. 181; p. 568.
Hill, Elwin K., Cleveland, Ohio. Bottle-opener. No. 1,024,403; Apr. 23; Sp. p. 5662; Gaz. vol. 177; p. 986.
Hill, Elwin K., assignor to The Electric Respirone Company, Cleveland, Ohio. Inhaler and respirator. No. 1,049,088; Dec. 31; Gaz. vol. 185; p. 1274.
Hill, Elwyn G., Philadelphia, Pa. Car-fender. No. 1,044,654; Nov. 19; Gaz. vol. 184; p. 622.
Hill, Eugene W., San Francisco, Cal. Watch-holder. No. 1,038,750; Sept. 17; Gaz. vol. 182; p. 601.
Hill, Frank F., Los Angeles, Cal. Well-casing. No. 1,020,696; Mar. 19; Sp. p. 3606; Gaz. vol. 176; p. 633.
Hill, Fred E., Stoneham, Mass. Mop-head. No. 1,017,149; Feb. 13; Sp. p. 2052; Gaz. vol. 175; p. 352.
Hill, George D., Louisville, Ky. Rail-fastening. No. 1,028,878; June 11; Sp. p. 1752; Gaz. vol. 179; p. 307.
Hill, George H., Schenectady, N. Y., assignor to General Electric Company. Electromagnetically-operated switch. No. 1,024,896; Apr. 30; Sp. p. 6792; Gaz. vol. 177; p. 1194.
Hill, Harrison B., East Providence, R. I. Adjustable-arm protractor. No. 1,023,738; Apr. 16; Sp. p. 4166; Gaz. vol. 177; p. 731.
Hill, Hugo. (See Schneider, Rutenbeck, and Hill.)
Hill-Independent Mfg. Co. (See Price, Max C., assignor.)
Hill, Irving. (See Bowersock, Wilber E., assignor.)
Hill, Irving, Wallace, Cal. Alphabetical symbols. No. 1,021,189; Mar. 26; Sp. p. 4637; Gaz. vol. 176; p. 850.
Hill, Irving, Wallace, Cal. Plant-protector. No. 1,043,594; Nov. 5; Gaz. vol. 184; p. 195.
Hill, James, Sr., Camden, N. J. Abrading or cutting device. No. 1,027,842; May 28; Sp. p. 6008; Gaz. vol. 178; p. 1043.
Hill, James H., assignor to Embury Manufacturing Co., Rochester, N. Y. Lantern-globe lifter. No. 1,036,113; Aug. 20; Gaz. vol. 181; p. 648.
Hill, James J., St. Paul, Minn. Track-level machine. No. 1,014,648; Jan. 16; Sp. p. 3479; Gaz. vol. 174; p. 596.
Hill, James S. (See Hill, Samuel H., assignor.)
Hill, Joel E., near Lexington, N. C. Indicator for acetylene-gas generators. No. 1,024,850; Apr. 30; Sp. p. 6699; Gaz. vol. 177; p. 1179.
Hill, John A., Leechburg, Pa. Hot-water heater. No. 1,022,844; Apr. 9; Sp. p. 2340; Gaz. vol. 177; p. 400.
Hill, John M., Johnstown, Pa. Machine for tapping mains, &c. No. 1,045,289; Nov. 26; Gaz. vol. 184; p. 871.
Hill, John R. (See Smith, Burgess W., assignor.)
Hill, John W., Providence, R. I. Floating tool or tool-holder. No. 1,041,792; Oct. 22; Gaz. vol. 183; p. 817.
Hill, Joseph, Jersey City, N. J. Toy. No. 1,032,604; July 16; Gaz. vol. 180; p. 689.
Hill, Joseph A. (See Stanbridge, Henry, assignor.)
Hill, Josiah, assignor of one-half to E. Miller, Pasadena, Cal. Safety device for elevators. No. 1,039,283; Sept. 24; Gaz. vol. 182; p. 801.
Hill, Josiah, assignor of one-half to E. Miller, Pasadena, Cal. Brake for elevators. No. 1,039,284; Sept. 24; Gaz. vol. 182; p. 801.
Hill, Leslie L., Los Angeles, Cal. Airship life-preserver. No. 1,042,349; Oct. 22; Gaz. vol. 183; p. 1003.
Hill, Louis A., assignor to Pneucar Company, Washington, D. C. Motor-vehicle. No. 1,046,388; Dec. 3; Gaz. vol. 185; p. 206.
Hill, Loyal C. (See Foster and Hill.)
Hill, Mark E., assignor of one-fourth to L. Burdett, Washington, D. C. Meat-boiler. No. 1,027,251; May 21; Sp. p. 4789; Gaz. vol. 178; p. 807.
Hill, Marshall J., St. Joseph, Wis. Drag. No. 1,031,553; July 2; Gaz. vol. 180; p. 245.
Hill Pump Valve Co., The. (See Schweizer, Adolf, assignor.)
Hill, Raymond S. (See Underwood and Hill.)
Hill, Raymond S., and O. P. Underwood, Indianola; said Underwood assignor to H. C. Mills, Des Moines, Iowa. Carbureter. No. 1,023,470; Apr. 16; Sp. p. 3656; Gaz. vol. 177; p. 648.
Hill, Richard P., Auckland, New Zealand. Latch for sliding doors. No. 1,033,891; July 30; Gaz. vol. 180; p. 1187.

Alphabetical list of patentees—Continued.

Hill, Roy, *et al.* (See Reames, Charles H., assignor.)
Hill, Samuel H., assignor of one-half to J. S. Hill, Keener, Ala. Dropper attachment for cultivators. No. 1,018,709; Feb. 27; Sp. p. 5517; Gaz. vol. 175; p. 955.
Hill, Stirling B., C. E., and W. R., Seattle, Wash. Hydraulic ram. No. 1,016,409; Feb. 6; Sp. p. 383; Gaz. vol. 175; p. 61.
Hill, Thomas A. (See Hill, Edward, assignor.)
Hill, Thomas A., Brooklyn, N. Y., assignor to The Burch Plow Works Co., Crestline, Ohio. Culvert. No. 1,025,186; May 7; Sp. p. 171; Gaz. vol. 178; p. 29.
Hill, Thomas D. (See Camp, Samuel G., assignor.)
Hill, Thomas R. (See Taute, Karl E., assignor.)
Hill, Walter, Mattoon, Ill. Spring-wheel. No. 1,037,004; Aug. 27; Gaz. vol. 181; p. 984.
Hill, Walter A., Callicoon, N. Y. Spring. No. 1,032,407; July 16; Gaz. vol. 180; p. 623.
Hill, Webster H. (See Montgomery and Hill.)
Hill, Wesley J. (See Hagerman, William A., assignor.)
Hill, William B., Kansas City, Mo. Making cement. No. 1,017,211; Feb. 13; Sp. p. 2191; Gaz. vol. 175; p. 373.
Hill, William B., Tucumcari, N. Mex. Hose-supporter. No. 1,042,223; Oct. 22; Gaz. vol. 183; p. 962.
Hill, William B., Tucumcari, N. Mex. Station-indicator. No. 1,044,385; Nov. 12; Gaz. vol. 184; p. 497.
Hill, William B., Tucumcari, N. Mex. Operating device for station-indicators. No. 1,047,806; Dec. 17; Gaz. vol. 185; p. 770.
Hill, William J. (See Ford, Harry J., assignor.)
Hill, William R. (See Hill, Stirling B., C. E., and W. R.)
Hillard, Charles J. (See Bennett and Hillard.)
Hillard, Frederic W. (See Bell, Charles H., assignor.)
Hillard, Frederic W., Tottenville, N. Y. Type-writing machine. No. 1,025,089; Apr. 30; Sp. p. 7174; Gaz. vol. 177; p. 1258.
Hillard, Frederic W., Tottenville, N. Y. Type-writing machine. No. 1,026,642; May 14; Sp. p. 3399; Gaz. vol. 178; p. 560.
Hillard, Frederic W., Tottenville, N. Y. Type-writing machine. No. 1,027,050; May 21; Sp. p. 4354; Gaz. vol. 178; p. 739.
Hillard, Frederic W., Tottenville, N. Y. Type-writing machine. No. 1,027,843; May 28; Sp. p. 6011; Gaz. vol. 178; p. 1043.
Hillenbrand, John A., Vanderburgh county, Ind. Retarder for self-binding harvesters. No. 1,019,960; Mar. 12; Sp. p. 2039; Gaz. vol. 176; p. 352.
Hiller, Everett O., Quincy, and W. A. Joplin, Lawrence, assignors to Pneumatic Scale Corporation, Limited, Quincy, Mass. Machine for lining boxes. No. 1,037,005; Aug. 27; Gaz. vol. 181; p. 985.
Hiller, Gustav. (See Schuster, Adalbert, assignor.)
Hiller, John A., Cincinnati, Ohio, assignor to National Water Main Cleaning Company, New York, N. Y. Device for measuring the flow of water. No. 1,041,470; Oct. 15; Gaz. vol. 183; p. 672.
Hiller, Joseph L., Mattapoisett, Mass. Crushing and pulverizing machine. No. 1,020,501; Mar. 19; Sp. p. 3162; Gaz. vol. 176; p. 568.
Hiller, Nicolai H., Carbondale, Pa. Evaporating apparatus. No. 1,024,576; Apr. 30; Sp. p. 6112; Gaz. vol. 177; p. 1081.
Hiller, Richard C., and D. W. Wade, Cleveland, Ohio. Starting device for gas-engines. No. 1,037,622; Sept. 3; Gaz. vol. 182; p. 149.
Hilliard, Edward G., *et al.* (See Honigmann, Hans, assignor.)
Hilliard, John D., Jr., and C. E. Parsons, Glens Falls, assignors to J. E. Way, New York, N. Y. Insulator. No. 1,015,229; Jan. 16; Sp. p. 4709; Gaz. vol. 174; p. 793.
Hilliard, Kirk, Vinton, Iowa. Folding harrow. No. 1,033,696; July 23; Gaz. vol. 180; p. 1093.
Hilliard, William J., assignor to C. H. Knipp, Elmira, N. Y. Friction-clutch. No. 1,035,346; Aug. 13; Gaz. vol. 181; p. 350.
Hillman, Annie M., Westhoff, Tex. Window-frame attachment. No. 1,032,062; July 9; Gaz. vol. 180; p. 461.
Hillman, Edward D., Larchmont, N. Y., assignor to B. A. Hegeman, Jr., North Plainfield, N. J. Bolster for railway-cars. No. 1,029,291; June 11; Sp. p. 2638; Gaz. vol. 179; p. 448.
Hillman, Edward D., Mount Vernon, N. Y., assignor to B. A. Hegeman, Jr., North Plainfield, N. J. General-utility transportation-car. No. 1,035,438; Aug. 13; Gaz. vol. 181; p. 382.
Hillman, Edward D., Mount Vernon, N. Y., assignor to B. A. Hegeman, Jr., North Plainfield, N. J. Transportation-car. No. 1,035,439; Aug. 13; Gaz. vol. 181; p. 382.
Hillman, Edward J., Lookout Mountain, Tenn. Fastener for mail and other bags. No. 1,040,324; Oct. 8; Gaz. vol. 183; p. 250.
Hillman, Henry G., Morris Park, assignor to J. T. Clarke, New York, N. Y. Elevator. No. 1,045,844; Dec. 3; Gaz. vol. 185; p. 17.
Hillman, Ralf R., Buffalo, N. Y. Mechanism for operating furnace-doors. No. 1,032,004; July 9; Gaz. vol. 180; p. 442.
Hills, William C., assignor of one-half to C. Kreiling, Sandpoint, and one-half to E. W. Bennett, Colburn, Idaho. Transplanting-pot. No. 1,031,713; July 9; Gaz. vol. 180; p. 342.
Hillyard, Newton S., St. Joseph, Mo. Liquid-soap fountain. No. 1,020,758; Mar. 19; Sp. p. 3734; Gaz. vol. 176; p. 655.
Hillyer, George H., assignor of one-third to E. A. Connell, Plattsburg, N. Y. Bottle-delivering mechanism. No. 1,030,180; June 18; Sp. p. 4575; Gaz. vol. 179; p. 791.
Hillyer, Homer W., Farmington, Conn., assignor to Thomsen Chemical Co., Baltimore, Md. Suspensible sulfur and producing same. No. 1,048,161; Dec. 24; Gaz. vol. 185; p. 918.
Hilscher, John F., St. Paul, Minn. Dish-washing machine. No. 1,016,995; Feb. 13; Sp. p. 1705; Gaz. vol. 175; p. 298.
Hilt, John W., Rantoul, Ill. End-gate. No. 1,046,592; Dec. 10; Gaz. vol. 185; p. 315.
Hiltner, Michael, *et al.* (See Woolen, Alfred, assignor.)
Hilton, Ervin, and A. Veitl, Spearfish, S. D. Window-pane fastener. No. 1,023,080; Apr. 9; Sp. p. 2820; Gaz. vol. 177; p. 480.
Hilton, Frank M. (See Hilton, William W., F. M., and J. S.)
Hilton, Hugh R., Port Allegany, Pa. Wheel-hoe. No. 1,040,325; Oct. 8; Gaz. vol. 183; p. 250.
Hilton, James C., Webb City, Mo. Corn-popping device and attachment therefor. No. 1,032,212; July 9; Gaz. vol. 180; p. 512.
Hilton, John S. (See Hilton, William W., F. M., and J. S.)
Hilton Manufacturing Company. (See Hilton, Roland C., assignor.)
Hilton, Robert W., Smethport, Pa. Wood-distilling apparatus. No. 1,018,419; Feb. 27; Sp. p. 4842; Gaz. vol. 175; p. 857.
Hilton, Roland C., Quincy, assignor to Hilton Manufacturing Company, Boston, Mass. Safety cranking device. No. 1,013,878; Jan. 9; Sp. p. 1766; Gaz. vol. 174; p. 302.
Hilton, William W., F. M., and J. S., Akron, Ohio. Combined cigar-holder, ash-receptacle, and match-safe. No. 1,018,492; Feb. 27; Sp. p. 5013; Gaz. vol. 175; p. 882.
Hilty, Robert D., assignor of one-half to I. N. Zeis, Carey, Ohio. Insulator. No. 1,032,545; July 16; Gaz. vol. 180; p. 669.
Hilty, Robert D., assignor of one-half to I. N. Zeis, Carey, Ohio. Insulating-cleat. No. 1,042,677; Oct. 29; Gaz. vol. 183; p. 1147.
Hilty, William L., and W. Hopes, Monongahela, Pa. Cuspidor. No. 1,018,907; Feb. 27; Sp. p. 5934; Gaz. vol. 175; p. 1022.
Himeno, Rikichy, New York, N. Y. Antiskid device. No. 1,030,238; June 18; Sp. p. 4716; Gaz. vol. 179; p. 812.
Himes-Cox, Florence, New York, N. Y. Adjustable lamp-stand. No. 1,021,918; Apr. 2; Sp. p. 349; Gaz. vol. 177; p. 58.
Himes, Edwin O., Albion, Ind. Motor-cycle. No. 1,039,943; Oct. 1; Gaz. vol. 183; p. 90.
Himes, Joseph, Seattle, Wash. Holder for templet-gages for setting cutters in cutter-heads. No. 1,046,296; Dec. 3; Gaz. vol. 185; p. 173.
Himes, Samuel H., Windber, Pa. Feed-trough. No. 1,023,018; Apr. 9; Sp. p. 2689; Gaz. vol. 177; p. 459.
Himioben, Ludwig H., Hamilton, Ohio. Resonator. No. 1,017,871; Feb. 20; Sp. p. 3639; Gaz. vol. 175; p. 635.
Himmel, Solomon. (See Miller, Andrew E., assignor.)
Himoff, Max, New York, N. Y. Strip-moistening machine. No. 1,016,011; Jan. 30; Sp. p. 6416; Gaz. vol. 174; p. 1116.
Himoff, Max, New York, N. Y. Radial drill-press. No. 1,032,408; July 16; Gaz. vol. 180; p. 623.
Himoff, Max, New York, N. Y. Radial drill-press. No. 1,032,409; July 16; Gaz. vol. 180; p. 624.
Himoff, Max, New York, N. Y. Drill-press. No. 1,032,410; July 16; Gaz. vol. 180; p. 624.
Hinchberger, Edward P., assignor of one-third to S. Hinchberger, Pittsburgh, Pa. Trolley. No. 1,016,747; Feb. 6; Sp. p. 1147; Gaz. vol. 175; p. 177.
Hinchberger, Sarah. (See Hinchberger, Edward P., assignor.)
Hincher, Lee D., Shoals, Ind. Garment-hanger. No. 1,018,056; Feb. 20; Sp. p. 4054; Gaz. vol. 175; p. 701.
Hincher, Lee D., Shoals, Ind. Garment-hanger. No. 1,018,057; Feb. 20; Sp. p. 4055; Gaz. vol. 175; p. 701.
Hinckley, Howard, Washington, D. C. Cup or hole-rim for golf-links. No. 1,041,081; Oct. 15; Gaz. vol. 183; p. 542.
Hinde & Dauch Paper Company, The. (See Connolly, Joseph A., assignor.)
Hinde & Dauch Paper Company. (See Harbrecht, William F., assignor.)
Hinde and Dauch Paper Company, The. (See Klotz, Peter G., assignor.)
Hinde & Dauch Paper Company, The. (See Morton, Lawrence D., assignor.) (Reissue.)
Hinde, Henry J. (See Hinde, Louis J. and H. J.)
Hinde, Louis J. and H. J., Toledo, Ohio. Bottom structure for metallic packages. No. 1,031,264; July 2; Gaz. vol. 180; p. 147.

Alphabetical list of patentees—Continued.

Hinderer, Jesse L. (See Mauger and Hinderer.)
Hinds, Jesse L., and J. J. Dossert, assignors to Crouse-Hinds Company, Syracuse, N. Y. Electrical coupling. No. 1,019,044; Mar. 5; Sp. p. 69; Gaz. vol. 176; p. 14.
Hinds, Peter J. (See Richards and Hinds.)
Hine, Ernest F., Port Kells, British Columbia, Canada. Washbasin. No. 1,047,807; Dec. 17; Gaz. vol. 185; p. 771.
Hine, Henry C., assignor of one-half to G. W. Traut, New Britain, Conn. Garment-supporter. No. 1,033,053; July 16; Gaz. vol. 180; p. 841.
Hine, Thomas W., Eureka, Cal. Logging system. No. 1,040,678; Oct. 8; Gaz. vol. 183; p. 376.
Hine, Thomas W., Eureka, Cal. Steam-actuating device for friction-driven drums. No. 1,044,049; Nov. 12; Gaz. vol. 184; p. 383.
Hinemeyer, Charles A. (See Dole and Hinemeyer.)
Hiner, Charles N., Staunton, Va. Reel for eyeglasses No. 1,036,844; Aug. 27; Gaz. vol. 181; p. 931.
Hines, Charles S. (See Hines, Christian and C. S.)
Hines, Christian and C. S., Napoleon, Ohio. Filter. No. 1,022,136; Apr. 2; Sp. p. 819; Gaz. vol. 177; p. 129.
Hines, Christian and C. S., Napoleon, Ohio. Eaves-trough. No. 1,044,886; Nov. 19; Gaz. vol. 184; p. 703.
Hines, Clarence, and G. Bowers, San Quentin, Cal. Check-protecting machine. No. 1,034,238; July 30; Gaz. vol. 180; p. 1309.
Hines, Eugene, *et al.* (See Watkins, William F., assignor.)
Hines, Jessie J., Houston, Tex. Gate structure. No. 1,026,163; May 14; Sp. p. 2364; Gaz. vol. 178; p. 399.
Hines, John H., assignor of one-fourth to C. Bindrich, Milwaukee, Wis. Steam-trap. No. 1,032,005; July 9; Gaz. vol. 180; p. 442.
Hines, Theodore, Pueblo, Colo. Incubator egg-tray. No. 1,035,791; Aug. 13; Gaz. vol. 181; p. 499.
Hines, Thomas J. (See Mattingly, Hines, and Brennan.)
Hines, William J., assignor to Puritan Comb Company, Leominster, Mass. Hair ornament. No. 1,020,424; Mar. 19; Sp. p. 3003; Gaz. vol. 176; p. 544.
Hines, William J., assignor to Puritan Comb Company, Leominster, Mass. Machine for making hair ornaments. No. 1,027,419; May 28; Sp. p. 5145; Gaz. vol. 178; p. 902.
Hiney, Alfred W., Philadelphia, Pa. Window-screen. No. 1,026,864; May 21; Sp. p. 3895; Gaz. vol. 178; p. 673.
Hink, Joseph, *et al.* (See Kwiatkowski, Jacob, assignor.)
Hink, Lawrence, *et al.* (See Kwiatkowski, Jacob, assignor.)
Hinkel, Anna, Milwaukee, Wis. Sleeve-form. No. 1,020,502; Mar. 19; Sp. p. 3163; Gaz. vol. 176; p. 568.
Hinkel, Peter, Ashland, Ky. Automatic safety device for elevators. No. 1,043,833; Nov. 12; Gaz. vol. 184; p. 308.
Hinkel, Peter, Ashland, Ky. Automatic safety device for furnace skips or elevators. No. 1,043,834; Nov. 12; Gaz. vol. 184; p. 308.
Hinkelman, William P., Chicago, Ill. Balance for clocks and the like. No. 1,048,072; Dec. 24; Gaz. vol. 185; p. 886.
Hinkle, Ferdinand W., Los Angeles, Cal. Atomizer. No. 1,018,193; Feb. 20; Sp. p. 4361; Gaz. vol. 175; p. 748.
Hinkle, Robert L. (See Wilmot and Hinkle.)
Hinkle, Sam D., and A. Catlett, Shelbyville, Ky. Crupper. No. 1,047,808; Dec. 17; Gaz. vol. 185; p. 771.
Hinkle, William H. (See Johnson, Charles E., assignor.)
Hinman, Robert M., assignor of one-half to F. Nolte, Akron, Ohio. Making cores for manufacturing tire-shoes. No. 1,037,250; Sept. 3; Gaz. vol. 182; p. 26.
Hinrichsen, August L. H., *et al.* (See Sanderson, William J., assignor.)
Hinsdale Company, The. (See Hinsdale, Winfield E., assignor.)
Hinsdale, Frederick H., Roanoke, Va. Liquid-applying stopper for bottles. No. 1,021,522; Mar. 26; Sp. p. 5378; Gaz. vol. 176; p. 968.
Hinsdale, Winfield E., assignor to The Hinsdale Company, New York, N. Y. Water-closet-bowl support. No. 1,043,835; Nov. 12; Gaz. vol. 184; p. 309.
Hinsky, Anthony P., Brooklyn, N. Y. Starting device for internal-combustion engines. No. 1,013,293; Jan. 2; Sp. p. 462; Gaz. vol. 174; p. 71.
Hinsky, Anthony P., assignor to Eastern Flexible Conduit Company, Brooklyn, N. Y. Conduit. No. 1,022,943; Apr. 9; Sp. p. 2556; Gaz. vol. 177; p. 433.
Hinsky, Franz A., Hoboken, N. J. Chair. No. 1,029,807; June 18; Sp. p. 3774; Gaz. vol. 179; p. 664.
Hinsky, Franz A., Hoboken, N. J. Insect-destroyer. No. 1,037,623; Sept. 3; Gaz. vol. 182; p. 149.
Hinson, William L. (See Baker, Hinson, and Phillips.)
Hintermann, Hermann, London, England. Railway-sleeper of reinforced concrete. No. 1,046,389; Dec. 3; Gaz. vol. 185; p. 206.
Hinz, Charles R. (See Cupps and Hinz.)
Hinz, Wilhelm, Antwerp, Belgium. Artificial horizon for ships or the like. No. 1,016,500; Feb. 6; Sp. p. 604; Gaz. vol. 175; p. 93.
Hinze, William E., Hamburg, Iowa. Wagon end-gate. No. 1,025,979; May 14; Sp. p. 1939; Gaz. vol. 178; p. 334.
Hinzpeter, Alfred, Munich, Germany. Automatic exhibition device. No. 1,039,397; Sept. 24; Gaz. vol. 182; p. 839.
Hiorth, Karl A. F., Christiania, Norway. Refining iron or steel. No. 1,028,070; May 28; Sp. p. 6538; Gaz. vol. 178; p. 1117.
Hipes, William F., Macdoel, Cal. Beet-harvester. No. 1,044,526; Nov. 19; Gaz. vol. 184; p. 576.
Hipple, Harvey J., Lancaster, Pa. Nut and bolt lock. No 1,049,234; Dec. 31; Gaz. vol. 185; p. 1323.
Hipple, William H. J., Philadelphia, Pa. Variable-speed gearing. No. 1,022,845; Apr. 9; Sp. p. 2341; Gaz. vol. 177; p. 400.
Hipwell, John B., Philadelphia, Pa. Incandescent mantle. No. 1,040,254; Oct. 1; Gaz. vol. 183; p. 195.
Hipwell, John B., Philadelphia, Pa. Incandescent mantle. No. 1,047,221; Dec. 17; Gaz. vol. 185; p. 563.
Hipwood, George, and P. Egan, New York, N. Y. Equipoiser. No. 1,028,071; May 28; Sp. p. 6539; Gaz. vol. 178; p. 1117.
Hirai, Shuichiro. (See Koike, Kihei, assignor.)
Hird, Harold P., Norwood Green, near Halifax, England. Plant for the continuous distillation of coal-tar, mineral oils, and the like. No. 1,041,082; Oct. 15; Gaz. vol. 183; p. 543.
Hirdler, Fairbanks C., Oklahoma, Okla. Automatic side-tracking sectionalizer for electric transmission systems. No. 1,030,181; June 18; Sp. p. 4578; Gaz. vol. 179; p. 791.
Hirner, Emil A., Allentown, Pa. Plating device. No. 1,023,311; Apr. 16; Sp. p. 3349; Gaz. vol. 177; p. 598.
Hirner, Emil A., Allentown, Pa. Knitting-machine. No. 1,023,312; Apr. 16; Sp. p. 3353; Gaz. vol. 177; p. 598.
Hirner, Emil A., Allentown, Pa. Knitting seamless plated hosiery. No. 1,023,313; Apr. 16; Sp. p. 3356; Gaz. vol. 177; p. 599.
Hirner, Emil A., Allentown, Pa. Knitting-machine. No. 1,026,206; May 14; Sp. p. 2466; Gaz. vol. 178; p. 414.
Hirsch, Firm of D. (See Wendler, Adolph, assignor.)
Hirsch, Joseph. (See Dey, Charles V., assignor.)
Hirsch, Julius D., Savannah, Ga. Game apparatus. No. 1,028,724; June 4; Sp. p. 1408; Gaz. vol. 179; p. 219.
Hirsch, Louis. (See Nebel, Karl, assignor.)
Hirschberg, Leon, Halensee, near Berlin, assignor to Firm of Chemische Fabrik Westend, Charlottenburg, near Berlin, Germany. Manufacturing oils soluble in water. No. 1,042,915; Oct. 29; Gaz. vol. 183; p. 1229.
Hirschberg, Solomon C., New York, N. Y. Spectacle or eyeglass case. No. 1,024,005; Apr. 23; Sp. p. 4787; Gaz. vol. 177; p. 850.
Hirsh, Fred, New Haven, Conn., assignor to Adjusta Company. Adjusting-loop. No. 1,043,425; Nov. 5; Gaz. vol. 184; p. 136.
Hirsh, Julius. (See Elder, William S., assignor.)
Hirsh, Sidney, *et al.* (See Rose, Max C., assignor.)
Hirshheimer, Albert. (See Davis, Frank E., assignor.)
Hirsohn, Isaac, New York, N. Y. Covering receptacles. No. 1,036,237; Aug. 20; Gaz. vol. 181; p. 693
Hirt, Jules H., Sewickley, Pa., assignor, by mesne assignments, to Allis-Chalmers Company, Milwaukee, Wis. Apparatus for making gas. No. 1,037,764; Sept. 3; Gaz. vol. 182; p. 196.
Hirt, Jules H., El Paso, Tex., assignor, by mesne assignments, to Allis-Chalmers Company, Milwaukee, Wis. Gas-producer. No. 1,038,582; Sept. 17; Gaz. vol. 182; p. 542.
Hirt, Jules H., El Paso, Tex., assignor, by mesne assignments, to Allis-Chalmers Company, Milwaukee, Wis. Pulverizer. No. 1,038,886; Sept. 17; Gaz. vol. 182; p. 648.
Hirt, Jules H., El Paso, Tex., assignor, by mesne assignments, to Allis-Chalmers Company, Milwaukee, Wis. Producing gas. No. 1,039,398; Sept. 24; Gaz. vol. 182; p. 840.
Hirth, Albert, assignor to Norma Compagnie G. m. b. H., Cannstadt-Stuttgart, Germany. Roller-bearing cage. No. 1,026,584; May 14; Sp. p. 3265; Gaz. vol. 178; p. 540.
Hirth, Carl A., Cannstatt, Germany. Skiving-machine. No. 1,018,493; Feb. 27; Sp. p. 5015; Gaz. vol. 175; p. 882.
Hirth, Carl A., Stuttgart-Cannstatt, Germany. Band-knife splitting-machine. No. 1,033,892; July 30; Gaz. vol. 180; p. 1188.
Hirth, Carl A., assignor to Fortuna-Werke Albert Hirth, Cannstatt-Stuttgart, Germany. Cold-sawing machine. No. 1,047,522; Dec. 17; Gaz. vol. 185; p. 670.
Hirth, Carl A., Stuttgart, assignor to Fortuna-Werke Albert Hirth, Cannstatt, Germany. Gage. No. 1,048,073; Dec. 24; Gaz. vol. 185; p. 887.
Hirz, Joseph H., Milwaukee, Wis. Lubricator for elevator-guides. No. 1,021,190; Mar. 26; Sp. p. 4638; Gaz. vol. 176; p. 850.
Hirz, Joseph H., Milwaukee, Wis. Traveling lubricator for guide-bars. No. 1,045,977; Dec. 3; Gaz. vol. 185; p. 62.
Hise, John P., Hightown, Va. Wagon-brake. No. 1,045,978; Dec. 3; Gaz. vol. 185; p. 62.

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Hiser, Charles H., assignor to The Springfield Metallic Casket Company, Springfield, Ohio. Coffin-fastener. No. 1,029,013; June 11; Sp. p. 2060; Gaz. vol. 179; p. 354.
Hiskey, George M., Los Angeles, Cal., assignor of one-fourth to J. B. Rice, Bisbee, Ariz. Razor. No. 1,033,321; July 23; Gaz. vol. 180; p. 972.
Hislop, George R., Paisley, Scotland. Domestic fire, range, and the like. No. 1,021,460; Mar. 26; Sp. p. 5231; Gaz. vol. 176; p. 946.
Hist, John, Berea, Ohio. Potato-digger. No. 1,014,394; Jan. 9; Sp. p. 2906; Gaz. vol. 174; p. 481.
Hist, John, Berea, Ohio. Dropping device for potato-planters. No. 1,035,191; Aug. 13; Gaz. vol. 181; p. 295.
Hist, John, Barberton, Ohio. Potato-digger. No. 1,037,006; Aug. 27; Gaz. vol. 181; p. 985.
Hitaka, Yeizaburo. (See Yamamoto, Takejiro, assignor.)
Hitchcock, Embury A., Columbus, Ohio. Meter. No. 1,018,561; Feb. 27; Sp. p. 5216; Gaz. vol. 175; p. 906.
Hitchcock, Frederick S., Lynn, Mass., assignor to General Electric Company. Self-alining bearing. No. 1,042,114; Oct. 22; Gaz. vol. 183; p. 926.
Hitchcock, Harlyn, Atlanta, Ga. Valve. No. 1,043,935; Nov. 12; Gaz. vol. 184; p. 343.
Hitchcock, Orion B., A. M. and F. M. Berggren, Morganville, Kans. Automobile transmission mechanism. No. 1,025,804; May 7; Sp. p. 1525; Gaz. vol. 178; p. 241.
Hitchon, Alfred, Clayton-le-Dale, England. Separator for ring-spinning machines. No. 1,031,265; July 2; Gaz. vol. 180; p. 147.
Hite, Abraham W. (See Hite, John L., assignor.)
Hite, Charles E., Burlington, N. J. Primary battery. No. 1,024,577; Apr. 30; Sp. p. 6115; Gaz. vol. 177; p. 1082.
Hite, John L., assignor of one-half to A. W. Hite, Huntington, W. Va. Clamp. No. 1,042,224; Oct. 22; Gaz. vol. 183; p. 962.
Hiteshew, Harvey B., Pittsburgh, Pa. Bath-tub extension. No. 1,013,162; Jan. 2; Sp. p. 149; Gaz. vol. 174; p. 25.
Hitner, Harry F., Pittsburgh, Pa., assignor to Burke Electric Company. Alternating-current motor. No. 1,014,001; Jan. 9; Sp. p. 2043; Gaz. vol. 174; p. 344.
Hitner, Harry F., Mount Vernon, Ohio, assignor to Pittsburgh Plate Glass Company, Pittsburgh, Pa. Capping-off device. No. 1,019,792; Mar. 12; Sp. p. 1698; Gaz. vol. 176; p. 296.
Hitt, Thomas S., *et al.* (See Fairfield, Alfred R., assignor.)
Hives, Percy D. (See Crighton and Hives.)
Hixon, Edward, and E. S. Parker, Chicago, Ill. Filter. No. 1,042,793; Oct. 29; Gaz. vol. 183; p. 1187.
Hixon, Joseph M., Attica, Ind. Headlight for automobiles. No. 1,019,961; Mar. 12; Sp. p. 2040; Gaz. vol. 176; p. 353.
Hixson, Clinton J., East Orange, N. J. Circuit-interrupter. No. 1,015,442; Jan. 23; Sp. p. 5198; Gaz. vol. 174; p. 893.
Hixson, Clinton J., Schenectady, N. Y., assignor to General Electric Company. Trolley-wire hanger. No. 1,032,905; July 16; Gaz. vol. 180; p. 792.
Hixson, Clinton J., Schenectady, N. Y., assignor to General Electric Company. Clamping-ear for trolley-wires. No. 1,047,523; Dec. 17; Gaz. vol. 185; p. 671.
Hixson, Harry E., Akron, Ohio. Bottle-retainer. No. 1,026,984; May 21; Sp. p. 4194; Gaz. vol. 178; p. 716.
Hizer, George W., Detroit, Mich. Removable ceiling for enameling-ovens. No. 1,037,910; Sept. 10; Gaz. vol. 182; p. 279.
Hjarne, Carl E. (See Johnson, Gustaf, assignor.)
Hjermstad, John M., Red Wing, Minn. Suspending device for storm-windows and like structures. No. 1,035,010; Aug. 6; Gaz. vol. 181; p. 203.
Hjort, Axel F., assignor to The Brunswick-Balke-Collender Co., Chicago, Ill. Means for fastening cloth to game-tables. No. 1,036,238; Aug. 20; Gaz. vol. 181; p. 694.
Hloch, Franz, Mährisch-Schonberg, Austria-Hungary. Machine for pressing pasty masses, more particularly mixtures of asbestos and cement. No. 1,021,098; Mar. 26; Sp. p. 4435; Gaz. vol. 176; p. 821.
Hluda, John, Port Chester, N. Y. Race-course barrier and starting device. No. 1,048,966; Dec. 31; Gaz. vol. 185; p. 1231.
Hoadley, Claud, Gosport, Ind. Motor-vehicle. No. 1,027,730; May 28; Sp. p. 5761; Gaz. vol. 178; p. 1004.
Hoadley, George W., Garden Grove, Iowa. Grinding-machine. No. 1,033,586; July 23; Gaz. vol. 180; p. 1058.
Hoadley, Joseph H., New York, N. Y. Transporting and utilizing fuel. No. 1,039,399; Sept. 24; Gaz. vol. 182; p. 840.
Hoadley, Joseph H., New York, N. Y., and W. H. Knight, Portsmouth, R. I. Mining coal and other minerals. No. 1,040,679; Oct. 8; Gaz. vol. 183; p. 376.
Hoag, Charles F. (See Covey and Hoag.)
Hoag, Frank S., Kinderhook, N. Y. Safety-unwinder and automatic cutting device. No. 1,031,182; July 2; Gaz. vol. 180; p. 119.
Hoag, John F., and W. Thomas, assignors to Dempster Mill Manufacturing Company, Beatrice, Nebr. Sheet shaping and bending machine. No. 1,041,471; Oct. 15; Gaz. vol. 183; p. 673.
Hoag, John F., and W. Thomas, assignors to Dempster Mill Manufacturing Company, Beatrice, Nebr. Sheet-metal tank. No. 1,041,472; Oct. 15; Gaz. vol. 183; p. 673.
Hoag, Ray C., Monticello, Iowa. Duster. No. 1,047,222; Dec. 17; Gaz. vol. 185; p. 563.
Hoagland, Frank O., assignor to The Union Metallic Cartridge Company, Bridgeport, Conn. Paper shot-shell. No. 1,020,142; Mar. 12; Sp. p. 2414; Gaz. vol. 176; p. 412.
Hoagland, Frank O., assignor to The Union Metallic Cartridge Company, Bridgeport, Conn. Tubular carrier. No. 1,025,525; May 7; Sp. p. 944; Gaz. vol. 178; p. 146.
Hoagland, Frank O., Bridgeport, Conn., assignor to Remington Arms and Ammunition Company, Ilion, N. Y. Ventilated sighting-rib for guns. No. 1,029,292; June 11; Sp. p. 2640; Gaz. vol. 179; p. 448.
Hoaglin, Frank L., Waupaca, Wis. Funnel. No. 1,033,173; July 23; Gaz. vol. 180; p. 920.
Hoaker, John, and W. I. Banks, San Antonio, Tex. Automobile-indicator. No. 1,025,398; May 7; Sp. p. 649; Gaz. vol. 178; p. 101.
Hoar, Blair S., *et al.* (See Ford, Frank W., assignor.)
Hoar, George W. (See Smith, Albert A., assignor.)
Hoare, George C., and T. Ackland, Harringay, England. Stop-cock and valve for liquids, gases, and steam. No. 1,031,932; July 9; Gaz. vol. 180; p. 418.
Hobart-Allfree Company, The. (See Allfree, James B., assignor.)
Hobart Electric Manufacturing Company, The. (See Johnston, Herbert L., assignor.)
Hobart, Garret A., Paterson, N. J. Electrically-operated coupon-cutting machine. No. 1,042,436; Oct. 29; Gaz. vol. 183; p. 1062.
Hobbs, Elbert R., Buhl, Idaho. Telephone system. No. 1,025,269; May 7; Sp. p. 350; Gaz. vol. 178; p. 57.
Hobbs, Elbert R., Buhl, Idaho. Telephone system. No. 1,045,845; Dec. 3; Gaz. vol. 185; p. 17.
Hobbs, Francis C., assignor to The Brunswick-Balke-Collender Company of New York, New York, N. Y. Pin-spot for bowling-alleys. No. 1,020,646; Mar. 19; Sp. p. 3491; Gaz. vol. 176; p. 616.
Hobbs, Francis C., assignor to The Brunswick-Balke-Collender Company of New York, New York, N. Y. Bowling-alley. No. 1,022,083; Apr. 2; Sp. p. 698; Gaz. vol. 177; p. 112.
Hobbs, Frank C., assignor to The Brunswick-Balke-Collender Company, New York, N. Y. Billiard-counter. No. 1,031,266; July 2; Gaz. vol. 180; p. 148.
Hobbs, Frank C., assignor to The Brunswick-Balke-Collender Company, New York, N. Y. Pin-pool board. No. 1,049,235; Dec. 31; Gaz. vol. 185; p. 1323.
Hobbs, James D. (See Dyer and Hobbs.)
Hobbs, James J., assignor of one-half to J. T. Mahoney, Mathis, Tex. Insect and animal exterminator. No. 1,042,437; Oct. 29; Gaz. vol. 183; p. 1062.
Hobbs, Samuel T., Ty Ty, Ga. Clevis. No. 1,040,326; Oct. 8; Gaz. vol. 183; p. 250.
Hobbs, Thomas M., Carmi, Ill. Center-stand fall-leaf table. No. 1,044,386; Nov. 12; Gaz. vol. 184; p. 498.
Hobbs, Willis F., assignor to The Bridgeport Hardware Manufacturing Corporation, Bridgeport, Conn. Combined nail-puller and hatchet. No. 1,031,001; July 2; Gaz. vol. 180; p. 53.
Hoberg, Wilhelm, Schalksmühle, Germany. Scythe. No. 1,020,352; Mar. 12; Sp. p. 2839; Gaz. vol. 176; p. 481.
Hobey, Harry, *et al.* (See Sande, Gus, assignor.)
Hobin, Martin, Philadelphia, Pa., assignor of one-half to W. H. Hobin, Indianapolis, Ind. Fan attachment for rocking-chairs. No. 1,013,879; Jan. 9; Sp. p. 1768; Gaz. vol. 174; p. 303.
Hobin, Martin, Philadelphia, Pa., assignor of one-half to W. H. Hobin, Indianapolis, Ind. Self-locking milk-bottle receptacle. No. 1,047,223; Dec. 17; Gaz. vol. 185; p. 564.
Hobin, William H. (See Hobin, Martin, assignor.)
Hobson, Walter, assignor, by mesne assignments, to The Baldwin Locomotive Works, Philadelphia, Pa. Car-truck. No. 1,023,019; Apr. 9; Sp. p. 2691; Gaz. vol. 177; p. 459.
Hoch, Franz, Frankfort-on-the-Main, Germany. Rail-joint. No. 1,018,494; Feb. 27; Sp. p. 5016; Gaz. vol. 175; p. 882.
Hocher, Oscar, Clinton, Wis. Bottle filling and capping machine. No. 1,049,089; Dec. 31; Gaz. vol. 185; p. 1274.
Hochfeldt, William, assignor to Safety Equipment Manufacturing Company, Chicago, Ill. Pressure reducing and regulating valve. No. 1,033,174; July 23; Gaz. vol. 180; p. 921.
Hochrein, Joseph G., *et al.* (See Gay, Herman T., assignor.)
Hochriem, Gustav F. (See Paupa and Hochriem.)
Hocker, Charles, and B. Wendholt, Huntingburg, Ind. Automatic coal-feed for moving coal-tenders. No. 1,023,935; Apr. 23; Sp. p. 4652; Gaz. vol. 177; p. 827.
Hocker, John F., Monroe, Ind. Filtering-can and the like. No. 1,028,023; May 28; Sp. p. 6425; Gaz. vol. 178; p. 1102.
Hockett, Clarkson P. (See Arnold and Hockett.)

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Hockin, Robert, Pictou, Nova Scotia, Canada. Game-table. No. 1,028,463; June 4; Sp. p. 882; Gaz. vol. 179; p. 133.
Hodde, Jacob H., assignor to Sangamo Electric Company, Springfield, Ill. Mercury motor-meter. No. 1,033,893; July 30; Gaz. vol. 180; p. 1188.
Hodge, Arthur J. (See Beach and Hodge.)
Hodge, Erastus A., Spokane, Wash. Oil-burner. No. 1,047,127; Dec. 10; Gaz. vol. 185; p. 499.
Hodge, Erastus A., assignor of one-fourth to F. W. Oman, Spokane, Wash. Nut-lock. No. 1,027,604; May 28; Sp. p. 5510; Gaz. vol. 178; p. 963.
Hodge, Fred I., Middletown, Conn. Steering-wheel for automobiles and other motor-vehicles. No. 1,044,387; Nov. 12; Gaz. vol. 184; p. 499.
Hodge, Leonard M., San Jose, Cal. Attachment for squares. No. 1,038,368; Sept. 10; Gaz. vol. 182; p. 432.
Hodge, Lilian B. (See Patchin, William E., assignor.)
Hodge, Otis E. (See Kunz and Hodge.)
Hodge, Sheldon, assignor to Pratt & Lambert, Inc., Buffalo, N. Y. Display device. No. 1,022,137; Apr. 2; Sp. p. 820; Gaz. vol. 177; p. 130.
Hodge, William A., Milford, Conn. Parachute apparatus. No. 1,043,836; Nov. 12; Gaz. vol. 184; p. 309.
Hodge, William B. (See Cramer and Hodge.)
Hodge, William B., assignor to S. W. Cramer, Charlotte, N. C. Flexible metallic diaphragm. No. 1,045,791; Nov. 26; Gaz. vol. 184; p. 1048.
Hodge, William H. (See Desens and Hodge.)
Hodgen, James R., assignor of one-half to J. Strickland, Atmore, Ala. Attachment for governors. No. 1,025,061; Apr. 30; Sp. p. 7107; Gaz. vol. 177; p. 1249.
Hodges, Allan R. (See Sanderson, Palmer, and Hodges.)
Hodges, Charles B., assignor to H. K. Porter Co., Pittsburgh, Pa. Compressed-air engine. No. 1,024,778; Apr. 30; Sp. p. 6548; Gaz. vol. 177; p. 1153.
Hodges, Charles B., Pittsburgh, and T. McCaffrey, Brier Hill, Pa. Fusible plug for air-compressors. No. 1,036,621; Aug. 27; Gaz. vol. 181; p. 858.
Hodges, Frank W. (See Wigginton and Hodges.)
Hodges, Henry C., Detroit, Mich. Roller-bearing. No. 1,024,851; Apr. 30; Sp. p. 6700; Gaz. vol. 177; p. 1179.
Hodges, James C., Attleboro, Mass., assignor to S. O. Bigney. Elastic tension device. No. 1,020,553; Mar. 19; Sp. p. 3280; Gaz. vol. 176; p. 586.
Hodges, Ludia H., Silverton, Tex. Vehicle-wheel. No. 1,031,933; July 9; Gaz. vol. 180; p. 419.
Hodges, William S. (See Vauclain and Hodges.)
Hodges, William S., assignor, by mesne assignments, to The Baldwin Locomotive Works, Philadelphia, Pa. Spring. No. 1,013,774; Jan. 2; Sp. p. 1511; Gaz. vol. 174; p. 239.
Hodgkinson, Francis, Edgewood Park, assignor, by mesne assignments, to The Colonial Trust Company, trustee, Pittsburgh, Pa. Longitudinal adjusting means for turbine-rotors. No. 1,015,315; Jan. 23; Sp. p. 4910; Gaz. vol. 174; p. 850.
Hodgkinson, Francis, Edgewood Park, assignor, by mesne assignments, to The Colonial Trust Company, trustee, Pittsburgh, Pa. Blade-lashing. No. 1,016,942; Feb. 13; Sp. p. 1580; Gaz. vol. 175; p. 279.
Hodgkinson, Francis, Edgewood Park, assignor, by mesne assignments, to The Colonial Trust Company, trustee, Pittsburgh, Pa. Regenerator. No. 1,037,765; Sept. 3; Gaz. vol. 182; p. 197.
Hodgkinson, Francis, Edgewood Park, Pa., assignor to The Westinghouse Machine Company. Blade-securing means. No. 1,046,390; Dec. 3; Gaz. vol. 185; p. 207.
Hodgkinson, Henry. (See Fish and Hodgkinson.)
Hodgkinson, Percy W., assignor to Caldwell Manufacturing Company, Rochester, N. Y. Locking receptacle. No. 1,038,583; Sept. 17; Gaz. vol. 182; p. 542.
Hodgkinson, William, Waterbury, Conn. Necktie-fastener. No. 1,026,315; May 14; Sp. p. 2699; Gaz. vol. 178; p. 451.
Hodgman, Burt B., East Orange, N. J., assignor to The National Water Main Cleaning Company. Device for passing cables through pipe-lines. No. 1,033,587; July 23; Gaz. vol. 180; p. 1059.
Hodgman, Burt B., East Orange, N. J., assignor to The National Water Main Cleaning Company. Device for passing cables through pipe-lines. No. 1,036,114; Aug. 20; Gaz. vol. 181; p. 648.
Hodgman, Willis K., assignor to Huber-Hodgman Printing Press Co., Taunton, Mass. Impression mechanism for printing-presses. No. 1,019,253; Mar. 5; Sp. p. 540; Gaz. vol. 176; p. 86.
Hodgman, Willis K., assignor to Huber-Hodgman Printing Press Co., Taunton, Mass. Inking apparatus for printing-presses. No. 1,030,403; June 25; Sp. p. 5107; Gaz. vol. 179; p. 910.
Hodgson, Arthur A. (See Hall and Hodgson.)
Hodgson, Christopher P., assignor to A. G. Morse Company, Chicago, Ill. Box for candy and similar articles. No. 1,047,224; Dec. 17; Gaz. vol. 185; p. 564.
Hodgson, Ernest F., Needham, Mass. Roof construction. No. 1,028,725; June 4; Sp. p. 1409; Gaz. vol. 179; p. 219.
Hodgson, Frank L., *et al.* (See Graetz, William, assignor.)
Hodgson, John G., Maywood, Ill. Nut-lock. No. 1,032,831; July 16; Gaz. vol. 180; p. 768.
Hodgson, Joseph P. (See Flodin, Nels P., assignor.)
Hodinger, Otto A., Oneida, N. Y. Umbrella. No. 1,022,944; Apr. 9; Sp. p. 2557; Gaz. vol. 177; p. 434.
Hodlmair, Charles, Minneapolis, Minn. Combined mail and order box. No. 1,035,347; Aug. 13; Gaz. vol. 181; p. 350.
Hodsdon, Henry, assignor to The Hodsdon Patent Totaliser and Enumerating Machines Company Limited, Brisbane, Queensland, Australia. Enumerating-machine. No. 1,034,239; July 30; Gaz. vol. 180; p. 1309.
Hodsdon Patent Totaliser and Enumerating Machines Company Limited, The. (See Hodsdon, Henry, assignor.)
Hodson, James E., Indianapolis, Ind. Washing-machine. No. 1,041,793; Oct. 22; Gaz. vol. 183; p. 818.
Hodson, Walter D. (See Gronberg and Hodson.)
Hodson, Walter D. (See Russell, Henry H., assignor.)
Hodson, Walter D., assignor to The Caloric Company, Janesville, Wis. Fireless-cooker lining. No. 1,032,673; July 16; Gaz. vol. 180; p. 715.
Hoeckelberg, Herman B., Cliffside, N. J. Device for slaughtering animals. No. 1,021,523; Mar. 26; Sp. p. 5379; Gaz. vol. 176; p. 968.
Hoefer, George, *et al.* (See Tilton, John W., assignor.)
Hoeffel, Charles I., Defiance, Ohio. Barrel. No. 1,039,058; Sept. 17; Gaz. vol. 182; p. 703.
Hoeft, Adolph R., Chicago, Ill. Device for repairing pneumatic-tire tubes. No. 1,049,090; Dec. 31; Gaz. vol. 185; p. 1275.
Hoeft, Max, Berlin, Germany. Tachometer. No. 1,038,751; Sept. 17; Gaz. vol. 182; p. 602.
Hoeller, Wilhelm, Cologne-Ehrenfeld, Germany. Charging device for furnaces or gas-generators. No. 1,037,480; Sept. 3; Gaz. vol. 182; p. 104.
Hoeller, Wilhelm, Cologne-Ehrenfeld, Germany. Gas-generator. No. 1,037,481; Sept. 3; Gaz. vol. 182; p. 104.
Hoennicke, Ernst, Dresden, Germany. Producing thyroid-gland extracts. No. 1,036,622; Aug. 27; Gaz. vol. 181; p. 858.
Hoennicke, Ernst, Dresden, Germany. Obtaining the inner secretions of the thyroid glands and other organs in a pure state. No. 1,043,007; Oct. 29; Gaz. vol. 183; p. 1260.
Hoenstine, Zigler, Anaconda, Mont. Baffle-plate for chimneys. No. 1,043,837; Nov. 12; Gaz. vol. 184; p. 309.
Hoepner, George, Chicago, Ill. Weighing and filling machine. No. 1,044,527; Nov. 19; Gaz. vol. 184; p. 577.
Hoering, Paul, Berlin, Germany. Making a soluble compound of iron-glycero-phosphate combined with milk or milk-albumin. No. 1,027,844; May 28; Sp. p. 6020; Gaz. vol. 178; p. 1043.
Hoering, Paul, Berlin, and O. Kippe, Osnabrück, Germany. Producing iron albuminates of organomineral acids. No. 1,025,466; May 7; Sp. p. 801; Gaz. vol. 178; p. 125.
Hoerlein, Heinrich, Vohwinkel, near Elberfeld, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Arylalkylbarbituric acid. No. 1,025,526; May 7; Sp. p. 945; Gaz. vol. 178; p. 146.
Hoerlein, Heinrich, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Phenylethylbarbituric acid. No. 1,025,872; May 7; Sp. p. 1686; Gaz. vol. 178; p. 263.
Hoerlein, Heinrich, Vohwinkel, near Elberfeld, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Phenylethylbarbituric acid. (Reissue.) No. 13,477; Oct. 15; Gaz. vol. 183; p. 754.
Hoerlin, Julius. (See Reinhardt and Hoerlin.)
Hoesly, Thomas J., Stratford, Wis. Shaft for vehicles. No. 1,031,792; July 9; Gaz. vol. 180; p. 370.
Hoetzel, Ernest J., Burlington, Tex. Cultivator attachment. No. 1,033,697; July 23; Gaz. vol. 180; p. 1094.
Hoevet, Alfred T., New York, N. Y., assignor, by mesne assignments, to Mount Vernon Specialty Company. Cigar-lighter. No. 1,027,205; May 21; Sp. p. 4707; Gaz. vol. 178; p. 790.
Hoey, John, San Francisco, Cal. Couch. No. 1,014,877; Jan. 16; Sp. p. 3993; Gaz. vol. 174; p. 675.
Hoey, John, San Francisco, Cal. Extension bed-couch. No. 1,032,063; July 9; Gaz. vol. 180; p. 461.
Hofbauer, Frank X., East Orange, N. J. Safety-bolt for doors. No. 1,038,752; Sept. 17; Gaz. vol. 182; p. 602.
Hofbauer, Frank X., East Orange, N. J., assignor to G. S. Iddings, Cleveland, Ohio. Support for cylindrical sound-records. No. 1,029,808; June 18; Sp. p. 3775; Gaz. vol. 179; p. 664.
Hofbauer, John O., New York, N. Y. Wind-shield. No. 1,018,973; Feb. 27; Sp. p. 6081; Gaz. vol. 175; p. 1046.
Hofe, Christian von, Wilmersdorf, near Berlin, assignor to Optische Anstalt C. P. Goerz Aktiengesellshaft, Friedenau, near Berlin, Germany. Angular mirror. No. 1,027,420; May 28; Sp. p. 5146; Gaz. vol. 178; p. 903.
Hofen, Henry S., Dacoma, Okla. Combined bail and box-cover fastener. No. 1,045,846; Dec. 3; Gaz. vol. 185; p. 18.
Hofer, Joseph L., Bridgewater, S. D. Toy. No. 1,042,678; Oct. 29; Gaz. vol. 183; p. 1148.

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Hofer, Louis, Pittsburgh, Pa. Churn. No. 1,037,624; Sept. 3; Gaz. vol. 182; p. 149.
Hofer, Louis, Pittsburgh, Pa. Sanitary receptacle. No. 1,037,625; Sept. 3; Gaz. vol. 182; p. 149.
Hoff, Carlton L., York, Pa. Grip-tread for elastic tires. No. 1,035,586; Aug. 13; Gaz. vol. 181; p. 431.
Hoff, Edward J., Berkeley, Cal. Chair. No. 1,025,915; May 7; Sp. p. 1805; Gaz. vol. 178; p. 278.
Hoff, Emil E., San Rafael, Cal. Resilient tire. No. 1,022,735; Apr. 9; Sp. p. 2120; Gaz. vol. 177; p. 363.
Hoff, Fredrick K., Plainville, Kans. Liquid-fuel burner. No. 1,047,633; Dec. 17; Gaz. vol. 185; p. 710.
Hoff, Olaf. (See Gundersen, August, assignor.)
Hoffa, Erwin, assignor to Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany. Violet-blue vat dyestuffs. No. 1,025,138; May 7; Sp. p. 59; Gaz. vol. 178; p. 11.
Hoffer, George L., Hattiesburg, Miss. Grate-bar. No. 1,030,303; June 25; Sp. p. 4882; Gaz. vol. 179; p. 873.
Hoffine, Fred G., Kansas City, Mo. Ironing-board. No. 1,027,479; May 28; Sp. p. 5253; Gaz. vol. 178; p. 921.
Hoffman, Abram, Montreal, Quebec, Canada. Trousers. No. 1,017,544; Feb. 13; Sp. p. 2889; Gaz. vol. 175; p. 488.
Hoffman, Albert J. (See Ellis and Hoffman.)
Hoffman, Arnold P. and W. E., and E. F. Altman, Minneapolis, Minn. Sprocket-chain housing. No. 1,027,605; May 28; Sp. p. 5511; Gaz. vol. 178; p. 964.
Hoffman, Charles F., Lansing, Mich. Cooker attachment for furnace-doors. No. 1,035,587; Aug. 13; Gaz. vol. 181; p. 432.
Hoffman, Edgar O. (See Carpenter and Hoffman.)
Hoffman, Gustaf. (See Kuring and Hoffman.)
Hoffman Heater Company. (See Oehlke, Frederick H., assignor.)
Hoffman, Israel, New York, N. Y. Receptacle for garbage and waste paper. No. 1,013,775; Jan. 2; Sp. p. 1512; Gaz. vol. 174; p. 240.
Hoffman, Israel, New York, N. Y. Combined cane and tobacco-pipe. No. 1,013,776; Jan. 2; Sp. p. 1513; Gaz. vol. 174; p. 240.
Hoffman, John J., New Kensington, assignor to P. H. Murphy, Pittsburgh, Pa. Outside metal car-roof. No. 1,039,400; Sept. 24; Gaz. vol. 182; p. 840.
Hoffman, John J., New Kensington, assignor to P. H. Murphy. Pittsburgh, Pa. Car-roof. No. 1,039,401; Sept. 24; Gaz. vol. 182; p. 841.
Hoffman, John J., assignor to P. H. Murphy, St. Louis, Mo. Draft-gear. No. 1,047,225; Dec. 17; Gaz. vol. 185; p. 564.
Hoffman, Kay H., Winthrop, Md. Bottle-stopper. No. 1,031,446; July 2; Gaz. vol. 180; p. 208.
Hoffman, Louis A., Jr., Leetonia, Ohio. Gas-separator. No. 1,048,533; Dec. 31; Gaz. vol. 185; p. 1082.
Hoffman, Peter L., Aurora, Ill., assignor, by mesne assignments, to Richards-Wilcox Manufacturing Company. Door-hanger. No. 1,017,757; Feb. 20; Sp. p. 3326; Gaz. vol. 175; p. 595.
Hoffman, Peter M., Chicago, Ill. Automobile number-plate. No. 1,023,471; Apr. 16; Sp. p. 3658; Gaz. vol. 177; p. 649.
Hoffman, Samuel O., San Francisco, Cal. Production of light. No. 1,043,008; Oct. 29; Gaz. vol. 183; p. 1260.
Hoffman, Samuel O., San Francisco, Cal. Production of light. No. 1,043,009; Oct. 29; Gaz. vol. 183; p. 1261.
Hoffman, Wallace W., Janesville, Wis. Blow-off cock. No. 1,031,554; July 2; Gaz. vol. 180; p. 245.
Hoffman, William E. (See Hoffman and Altman.)
Hoffmann, August R., St. Louis, Mo. Feeding apparatus. No. 1,034,240; July 30; Gaz. vol. 180; p. 1310.
Hoffmann, August R., St. Louis, Mo. Feeding apparatus. No. 1,042,115; Oct. 22; Gaz. vol. 183; p. 926.
Hoffmann, Berthold, and R. Suchy, Griesheim, assignors to Chemische Fabrik Griesheim-Elektron, Frankfort-on-the Main, Germany. Melting and casting magnesium and alloys thereof. No. 1,028,216; June 4; Sp. p. 350; Gaz. vol. 179; p. 48.
Hoffmann, Ernst A., assignor to D. J. Normoyle, Philadelphia, Pa. Hand-tool. No. 1,047,634; Dec. 17; Gaz. vol. 185; p. 710.
Hoffmann, Georg, Hanover-Hainholz, Germany. Apparatus for preparing old and new molding-sand. No. 1,036,239; Aug. 20; Gaz. vol. 181; p. 694.
Hoffmann, George N. (See Vollmer, Charles, assignor.)
Hoffmann, Gottfried, College Point, N. Y. Shuttle. No. 1,035,792; Aug. 13; Gaz. vol. 181; p. 499.
Hoffmann, Henry, Newark, N. J. Feed-trough for animals. No. 1,035,588; Aug. 13; Gaz. vol. 181; p. 432.
Hoffmann, Julius, Jr., and A. W. Happel, Buffalo, N. Y. Metal cutting and coping machine. No. 1,044,177; Nov. 12; Gaz. vol. 184; p. 426.
Hoffmann-La Roche Chemical Works. (See Elger, Franz, assignor.)
Hoffmann, Louis, Vienna, Austria-Hungary. Oil-press. No. 1,047,809; Dec. 17; Gaz. vol. 185; p. 772.
Hoffmann Manufacturing Company, The. (See Schmidt, Otto A., assignor.)
Hoffmann, Otto. (See Brenner and Hoffmann.)
Hoffmann, Otto C., assignor to C. R. Hatch, Buffalo, N. Y. Switch or junction box. No. 1,026,164; May 14; Sp. p. 2365; Gaz. vol. 178; p. 399.
Hoffmann, Paul, assignor to Ajax Forge Company, Chicago, Ill. Switch-point. No. 1,033,400; July 23; Gaz. vol. 180; p. 998.
Hoffmann, Peter, Tarentum, Pa. Pot-filling apparatus for glass-furnaces. No. 1,029,444; June 11; Sp. p. 2994; Gaz. vol. 179; p. 502.
Hoffmann, Philip, and T. H. Hupfer, St. Louis, Mo. Switch-lock for ignition-circuits. No. 1,036,115; Aug. 20; Gaz. vol. 181; p. 648.
Hoffmann, Robert, Ortelsburg, Germany. Apparatus for macerating wort. No. 1,015,443; Jan. 23; Sp. p. 5200; Gaz. vol. 174; p. 894.
Hoffmann, Rudolf, Köpenick, near Berlin, Germany. Process and apparatus for the manufacture of glass drums and other hollow bodies. No. 1,021,043; Mar. 26; Sp. p. 4332; Gaz. vol. 176; p. 804.
Hoffner, John M., Buffalo, N. Y. Transportation-ticket. No. 1,029,293; June 11; Sp. p. 2641; Gaz. vol. 179; p. 448.
Hoffner, John M., Buffalo, N. Y. Return-envelop. No. 1,040,200; Oct. 1; Gaz. vol. 183; p. 178.
Hofiander, Henry, Speed, Mo. Collar-button retainer. No. 1,028,024; May 28; Sp. p. 6426; Gaz. vol. 178; p. 1103.
Hofmann, Alfred E., Lucerne, Switzerland. Mechanical stoker. No. 1,019,644; Mar. 5; Sp. p. 1405; Gaz. vol. 176; p. 216.
Hofmann, Fritz, and C. Coutelle, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Producing divinyl. No. 1,028,938; June 11; Sp. p. 1893; Gaz. vol. 179; p. 327.
Hofmann, Fritz, and C. Coutelle, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Producing aliphatic hydrocarbons with more than one double bond. No. 1,030,239; June 18; Sp. p. 4717; Gaz. vol. 179; p. 812.
Hofmann, Fritz, K. Delbrück, and K. Meisenburg, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Producing pinacones. No. 1,039,739; Oct. 1; Gaz. vol. 183; p. 24.
Hofmann, Fritz, K. Delbrück, Elberfeld, and K. Meisenburg, Leverkusen, near Cologne, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Producing pinacones. No. 1,039,740; Oct. 1; Gaz. vol. 183; p. 24.
Hofmann, Fritz, K. Delbrück, Elberfeld, and K. Meisenburg, Leverkusen, near Cologne, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Preventing caoutchouc substances from getting sticky and resinous. No. 1,039,741; Oct. 1; Gaz. vol. 183; p. 24.
Hofmann, Fritz, K. Delbrück, and K. Meisenburg, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Producing diolefine hydrocarbons. No. 1,048,967; Dec. 31; Gaz. vol. 185; p. 1232.
Hofmann, Herbert R. (See Dreden and Hofmann.)
Hofmann, Josef, Baumaroche, Switzerland. Pneumatic cushion. No. 1,039,537; Sept. 24; Gaz. vol. 182; p. 889.
Hofmann, Wilhelm. (See Specketer and Hofmann.)
Hofstad, Nels. (See Smith and Hofstad.)
Hofstetter, Christian S. (See Berry, John W., assignor.)
Hogan, Dora H., Chicago, Ill. Overcheck breaking-bit for kicking horses. No. 1,034,452; Aug. 6; Gaz. vol. 181; p. 17.
Hogan, George F., Chicago, Ill. Sanitary-drinking-cup blank. No. 1,021,099; Mar. 26; Sp. p. 4436; Gaz. vol. 176; p. 821.
Hogan, James T., Jersey City, N. J., assignor, by mesne assignments, to The Singer Manufacturing Company. Tension device for sewing-machines. No. 1,013,163; Jan. 2; Sp. p. 151; Gaz. vol. 174; p. 26.
Hogan, James T., Jersey City, N. J., assignor to The Singer Manufacturing Company. Overseaming mechanism for sewing-machines. No. 1,023,314; Apr. 16; Sp. p. 3360; Gaz. vol. 177; p. 599.
Hogan, John L., Jr., Brant Rock, Mass., assignor to National Electric Signaling Company, Pittsburgh, Pa. Apparatus for wireless signaling. No. 1,014,002; Jan. 9; Sp. p. 2044; Gaz. vol. 174; p. 345.
Hogan, John L., Jr., Brant Rock, Mass., assignor to National Electric Signaling Company, Pittsburgh, Pa. Break-key. No. 1,016,564; Feb. 6; Sp. p. 775; Gaz. vol. 175; p. 114.
Hogan, Philip, Brooklyn, N. Y. Terminal-box. No. 1,041,473; Oct. 15; Gaz. vol. 183; p. 674.
Hogan, Richard J., Pocatello, Idaho. Safety device for boilers. No. 1,036,494; Aug. 20; Gaz. vol. 181; p. 781.
Hogan, Thomas G., assignor of one-half to T. E. Charlton and one-half to C. C. Coalter, Hinton, W. Va. Maple-flavored sugar and making same. No. 1,037,766; Sept. 3; Gaz. vol. 182; p. 197.
Hogarth, William T., and D. K. Deal, Williamsport, Pa. Tool for cleaning boiler-head cap-seats. No. 1,026,442; May 14; Sp. p. 2981; Gaz. vol. 178; p. 494.

Alphabetical list of patentees—Continued.

Hoge, Hampden, and J. Schade, Jr., New York, N. Y.; said Schade assignor to said Hoge. Rug-fastener. No. 1,018,194; Feb. 20; Sp. p. 4362; Gaz. vol. 175; p. 749.
Hoge, Joseph F. D., New York, N. Y., assignor to American District Telegraph Company. Multiplex telegraph system. No. 1,030,780; June 25; Sp. p. 6179; Gaz. vol. 179; p. 1045.
Hoge, Max, and P. C. Riebe, assignors to Upright Grain Printing Base Company, Chicago, Ill. Base for printing-plates. No. 1,028,821; June 4; Sp. p. 1616; Gaz. vol. 179; p. 252.
Hoge, Max, and P. C. Riebe, assignors to Upright Grain Printing Base Company, Chicago, Ill. Base for printing-plates. No. 1,031,267; July 2; Gaz. vol. 180; p. 148.
Hoge, Max, and J. W. Pitt, assignors to Upright Grain Printing Base Company, Chicago, Ill. Printer's plate-hook. No. 1,043,105; Nov. 5; Gaz. vol. 184; p. 20.
Hoge, Solomon, Waynesburg, Pa. Alarm. No. 1,037,767; Sept. 3; Gaz. vol. 182; p. 197.
Hogel, Hascal A. (See Darley, John W., Jr., assignor.)
Hogel, Hascal A., Boston, Mass. Pumping apparatus. No. 1,042,225; Oct. 22; Gaz. vol. 183; p. 962.
Hogel, Hascal A., Boston, Mass. Pumping apparatus. No. 1,042,226; Oct. 22; Gaz. vol. 183; p. 963.
Hogel, Hascal A., Boston, Mass. Compressed-air water-elevator. No. 1,042,227; Oct. 22; Gaz. vol. 183; p. 963.
Hogen, Charles C., Cleveland, Ohio. Coupling. No. 1,035,793; Aug. 13; Gaz. vol. 181; p. 499.
Högfeldt, Richard, Dusseldorf, Germany. Machine for making paper boxes. No. 1,016,266; Feb. 6; Sp. p. 48; Gaz. vol. 175; p. 10.
Hogg, William. (See Thorpe, Gertrude, assignor.)
Hogle, Joseph B., Chicago, Ill. Window-shade fixture. No. 1,018,110; Feb. 20; Sp. p. 4178; Gaz. vol. 175; p. 719.
Hogle, Martin, Fitzgerald, Ga. Vise. No. 1,037,626; Sept. 3; Gaz. vol. 182; p. 150.
Hoglund, Carl O., Crookston, Minn. Concrete-mixing machine. No. 1,019,737; Mar. 5; Sp. p. 1577; Gaz. vol. 176; p. 246.
Hoglund, Gustav E., assignor of one-half to W. N. Selig, Chicago, Ill. Mechanism for electrically transmitting and reproducing images. No. 1,030,240; June 18; Sp. p. 4719; Gaz. vol. 179; p. 812.
Hogsett, Homer H., South Heights, Pa. Flume-gate. No. 1,049,091; Dec. 31; Gaz. vol. 185; p. 1275.
Hoh, Emil C. A., Brooklyn, assignor to J. L. Howard, borough of Queens, New York county, N. Y. Switching apparatus. No. 1,045,979; Dec. 3; Gaz. vol. 185; p. 63.
Hohberger, Johann T., assignor to A. R. Morse, Chicago, Ill. Candy-cutting machine. No. 1,031,647; July 2; Gaz. vol. 180; p. 277.
Hohenberger, Ferdinand, assignor to The American Multigraph Company, Cleveland, Ohio. Clip for use with type-holding rails. No. 1,031,447; July 2; Gaz. vol. 180; p. 209.
Hohl, George I., Newark, N. J., assignor to Newark Wrapping Machine Co. Wrapping-machine. No. 1,040,201; Oct. 1; Gaz. vol. 183; p. 178.
Hohlfeld, Herman L., Philadelphia, Pa. Hammock-cradle. No. 1,039,944; Oct. 1; Gaz. vol. 183; p. 91.
Hohlmann, Heinrich, Jr., Essen-on-the-Ruhr, assignor to M. Rothschild, Dortmund, Germany. Automatic temperature-regulator. No. 1,036,116; Aug. 20; Gaz. vol. 181; p. 649.
Hohmann, Edmund, assignor to Stettiner Chamotte-Fabrik Actien-Gesellschaft vorm. Didier, Stettin, Germany. Coke-oven. No. 1,027,845; May 28; Sp. p. 6022; Gaz. vol. 178; p. 1043.
Hohmann, Edmund, assignor to Stettiner Chamotte-Fabrik Actien-Gesellschaft vorm. Didier, Stettin, Germany. Horizontal coke-oven of the regenerative type. No. 1,034,709; Aug. 6; Gaz. vol. 181; p. 103.
Hohmann, Edmund, assignor to Stettiner Chamotte-Fabrik Actien-Gesellschaft vorm. Didier, Stettin, Germany. Air-blast heater. No. 1,038,887; Sept. 17; Gaz. vol. 182; p. 648.
Hohmann, Edmund, assignor to Stettiner Chamotte-Fabrik Actien-Gesellschaft vorm. Didier, Stettin, Germany. Horizontal coke-oven. No. 1,047,635; Dec. 17; Gaz. vol. 185; p. 710.
Hohmann, Richard K., San Diego, Cal. Presser-foot for sewing-machines. No. 1,036,845; Aug. 27; Gaz. vol. 181; p. 932.
Hohn, George W., and E. G. Reisinger, Butler, Pa. Air-brake. No. 1,029,368; June 11; Sp. p. 2834; Gaz. vol. 179; p. 476.
Höhn, Karl, Schaffhausen, Switzerland. Coupling for non-closable circuit-breakers. No. 1,040,541; Oct. 8; Gaz. vol. 183; p. 324.
Hokanson, Andrew S., Rumford, R. I. Portable tool-chest. No. 1,026,264; May 14; Sp. p. 2587; Gaz. vol. 178; p. 433.
Hoke, Jacob F., Jr. (See Talbert, Shaw, Holcomb, and Hoke.)
Hoke, Uriah, Cornwall, Pa. Artificial limb. No. 1,045,707; Nov. 26; Gaz. vol. 184; p. 1019.
Holbert, Charles A., Los Angeles, Cal. Dish-drainer. No. 1,045,290; Nov. 26; Gaz. vol. 184; p. 871.
Holbrook, Clement A., East Orange, N. J., assignor to Sloan & Company. Safety suspension or chatelaine pin. No. 1,044,887; Nov. 19; Gaz. vol. 184; p. 703.
Holbrook, Frank, assignor of one-half to T. C. Rowen, Lynn, Mass. Machine for driving tacks and the like. No. 1,022,481; Apr. 9; Sp. p. 1535; Gaz. vol. 177; p. 276.
Holbrook, Thomas C., Brownsville, Tenn. Bicycle-alarm. No. 1,041,474; Oct. 15; Gaz. vol. 183; p. 674.
Holcomb, Charles C., assignor to Richmond Casket Company, Richmond, Ind. Burial-garment. No. 1,028,464; June 4; Sp. p. 884; Gaz. vol. 179; p. 133.
Holcomb, Charles F., Bridgeport, Conn. Stopple for drain-pipes. No. 1,042,002; Oct. 22; Gaz. vol. 183; p. 889.
Holcomb, James I. (See Talbert, Shaw, Holcomb, and Hoke.)
Holcomb, Noble R., Nowata, Okla. Hand-rest. No. 1,018,615; Feb. 27; Sp. p. 5320; Gaz. vol. 175; p. 923.
Holcomb, Preston L., Birmingham, Ala. Loading apparatus. No. 1,020,554; Mar. 19; Sp. p. 3282; Gaz. vol. 176; p. 586.
Holcomb, Preston L., Birmingham, Ala. Dump-wagon with loading attachment. No. 1,035,440; Aug. 13; Gaz. vol. 181; p. 382.
Holcomb, William A., Pebworth, Ky. Wire-stretching device. No. 1,015,184; Jan. 16; Sp. p. 4614; Gaz. vol. 174; p. 778.
Holcombe, D. J., *et al.* (See Cabler, Robert L., assignor.)
Holcombe, Luther A., Nashville, Ark. Plow. No. 1,032,546; July 16; Gaz. vol. 180; p. 669.
Holcombe, Luther E., assignor of one-half to J. W. Henley, Los Angeles, Cal. Automatic switchback. No. 1,034,618; Aug. 6; Gaz. vol. 181; p. 71.
Holden, Burtren A. (See Jantzen, Niels, assignor.)
Holden, Charles L., Indianapolis, Ind. Range-boiler stand. No. 1,036,240; Aug. 20; Gaz. vol. 181; p. 695.
Holden, Charles R., Chicago, Ill. Railway-road-bed construction. No. 1,020,096; Mar. 12; Sp. p. 2320; Gaz. vol. 176; p. 397.
Holden, Clem C., assignor of one-half to E. D. Rice, Flint, Mich. Three-wheel auto. No. 1,049,092; Dec. 31; Gaz. vol. 185; p. 1276.
Holden, Daniel L., New York, N. Y. Ice-machine. No. 1,020,759; Mar. 19; Sp. p. 3736; Gaz. vol. 176; p. 655.
Holden, Delos, Upper Montclair, N. J. Ignition device. No. 1,020,503; Mar. 19; Sp. p. 3164; Gaz. vol. 176; p. 569.
Holden, Edward P., Chicago, Ill., assignor, by mesne assignments, to Corno Mills Co. Can-filling machine. No. 1,036,846; Aug. 27; Gaz. vol. 181; p. 932.
Holden, Eugene A., Athol, Mass. Ticket-holder. No. 1,025,805; May 7; Sp. p. 1526; Gaz. vol. 178; p. 241.
Holden, George, Flushing, assignor to Greenpoint Metallic Bed Company, Brooklyn, N. Y. Tubular bedstead and other frame. No. 1,041,284; Oct. 15; Gaz. vol. 183; p. 612.
Holden, Harry, assignor to Emma Lang Investment Company, Los Angeles, Cal. Display apparatus. No. 1,027,606; May 28; Sp. p. 5513; Gaz. vol. 178; p. 964.
Holder, Newman S. (See Fields, John H., assignor.)
Holder, William H., Rockford, Ill. Tea and coffee pot strainer. No. 1,039,742; Oct. 1; Gaz. vol. 183; p. 24.
Holderman, Marion F., Washington, D. C. Key-changing device for piano-players and player-pianos. No. 1,030,182; June 18; Sp. p. 4586; Gaz. vol. 179; p. 792.
Holderman, William E., Salt Lake City, Utah. Hand-rake-cleaning attachment. No. 1,021,461; Mar. 26; Sp. p. 5233; Gaz. vol. 176; p. 946.
Holdsworth, Fred D., assignor to Sullivan Machinery Company, Claremont, N. H. Lubricating device. No. 1,019,645; Mar. 5; Sp. p. 1407; Gaz. vol. 176; p. 216.
Holdsworth, Fred D., assignor to Sullivan Machinery Company, Claremont, N. H. Pulsating apparatus. No. 1,025,467; May 7; Sp. p. 803; Gaz. vol. 178; p. 125.
Holdsworth, James, and F. R. Blackburn, Monongahela, Pa. Switch. No. 1,049,236; Dec. 31; Gaz. vol. 185; p. 1323.
Holdt, George H. (See Dexter and Holdt.)
Holdt, George H., assignor to Dexter Folder Company, Pearl River, N. Y. Back gage for paper-cutting machines. No. 1,018,111; Feb. 20; Sp. p. 4180; Gaz. vol. 175; p. 719.
Holeproof Hosiery Co. (See Evans, Humphrey, assignor.)
Holiday, Ashley P., assignor of one-third to J. A. Murphy, Jamestown, N. D. Car-replacer. No. 1,035,704; Aug. 13; Gaz. vol. 181; p. 470.
Holitzki, Johann, Killaly, Saskatchewan, Canada. Feed-bag. No. 1,021,601; Mar. 26; Sp. p. 5531; Gaz. vol. 176; p. 993.
Holkum, Frederick C., Pocahontas, Ill. Match-box. No. 1,021,602; Mar. 26; Sp. p. 5531; Gaz. vol. 176; p. 993.
Holladay, Gray C. (See Parker, George, assignor.)
Holland, Arthur A., Hastings-upon-Hudson, assignor of one-third to E. K. Scheftel, New York, N. Y. Continuous rotary filter. No. 1,036,847; Aug. 27; Gaz. vol. 181; p. 933.
Holland, Catherine, assignor of one-half to F. R. Holland, New York, N. Y. Display-rack. No. 1,047,053; Dec. 10; Gaz. vol. 185; p. 473.
Holland Development Company. (See Ball, Henry P., assignor.)

Alphabetical list of patentees—Continued.

Holland, Fredrick R. (See Holland, Catherine, assignor.)
Holland, George W., Tombstone, Ariz. Dumping-wagon. No. 1,020,823; Mar. 19; Sp. p. 3877; Gaz. vol. 176; p. 677.
Holland, Gerald E., Holyhead, England. Apparatus for loading and unloading coal and other cargo. No. 1,036,495; Aug. 20; Gaz. vol. 181; p. 782.
Holland, Heinrich, assignor to C. Frank, Charlottenburg, Germany. Erecting large halls and the like. No. 1,032,284; July 9; Gaz. vol. 180; p. 538.
Holland, Henry, Cleveland, Ohio. Trolley-wheel. No. 1,040,680; Oct. 8; Gaz. vol. 183; p. 377.
Holland, Henry T., Winfield, N. Y. Curtain-pole holder. No. 1,026,953; May 21; Sp. p. 4139; Gaz. vol. 178; p. 706.
Holland, James J., Philadelphia, Pa. Receptacle-closure. No. 1,018,495; Feb. 27; Sp. p. 5018; Gaz. vol. 175; p. 883.
Holland, James J., Philadelphia, Pa., and W. Discher, Toledo, Ohio. Combination atomizer and nebulizer. No. 1,020,647; Mar. 19; Sp. p. 3493; Gaz. vol. 176; p. 617.
Holland, James J., Philadelphia, Pa., and W. Discher, Toledo, Ohio. Nebulizer. No. 1,042,556; Oct. 29; Gaz. vol. 183; p. 1103.
Holland-Letz, Lud, Chicago, Ill., assignor to International Harvester Company. Motor attachment for harvesters. No. 1,014,823; Jan. 16; Sp. p. 3864; Gaz. vol. 174; p. 656.
Holland-Letz, Lud, Chicago, Ill., assignor to International Harvester Company. Wheel-hub and bearing-sleeve. No. 1,024,726; Apr. 30; Sp. p. 6436; Gaz. vol. 177; p. 1134.
Holland, Newman H., assignor to Thomas A. Edison, Incorporated, West Orange, N. J. Phonograph. No. 1,049,237; Dec. 31; Gaz. vol. 185; p. 1323.
Holland, Samuel, Colorado Springs, and H. H. Wister, Colorado City, Colo. Vending-bottle. No. 1,038,584; Sept. 17; Gaz. vol. 182; p 542.
Holland, Thomas J., Antigo, Wis. Vehicle-wheel. No. 1,037,144; Aug. 27; Gaz. vol. 181; p. 1031.
Holland, Thomas S., Tacoma, Wash. Interlocking joint. No. 1,032,674; July 16; Gaz. vol. 180; p. 715.
Holland, Thomas S., Tacoma, Wash. Stave. No. 1,032,675; July 16; Gaz. vol. 180; p. 715.
Holland, Walter E., East Orange, assignor to Edison Storage Battery Company, West Orange, N. J. Battery-charge indication. No. 1,045,291; Nov. 26; Gaz. vol. 184; p. 871.
Holland, William W., Roland Park, Md. Rail-fastener. No. 1,044,178; Nov. 12; Gaz. vol. 184; p. 427.
Hollander, Sven G., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Cutting and marking die. No. 1,030,781; June 25; Sp. p. 6183; Gaz. vol. 179; p. 1046.
Hollar, Harry S. (See Hibshman and Hollar.)
Hollberg, Louis H. (See Davis, Burt F., assignor.)
Höllidampf, Johannes, Cassel, Germany. Beverage. No. 1,027,336; May 21; Sp. p. 4958; Gaz. vol. 178; p. 835.
Holle, Alexander A., Olst, Netherlands. Steam-engine. No. 1,023,648; Apr. 16; Sp. p. 4016; Gaz. vol. 177; p. 705.
Hollenbeck, Elijah A., assignor to The Hollenbeck Manufacturing Co., Holdrege, Nebr. Road-grading and excavating machine. No. 1,025,569; May 7; Sp. p. 1041; Gaz. vol. 178; p. 161.
Hollenbeck Manufacturing Co., The. (See Hollenbeck, Elijah A., assignor.)
Hollerith, Herman, Garrett Park, Md., assignor to The Tabulating Machine Company. Registering apparatus. No. 1,030,304; June 25; Sp. p. 4882; Gaz. vol. 179; p. 873.
Hollerith, Herman, Garrett Park, Md., assignor to The Tabulating Machine Company. Apparatus for use in tabulating systems. No. 1,030,305; June 25; Sp. p. 4887; Gaz. vol. 179; p. 874.
Holley, Albert B., Virginia, Minn. Sad-iron heater. No 1,037,251; Sept. 3; Gaz. vol. 182; p. 26.
Holley-Mason Hardware Company. (See Kleinknecht, Emanuel, assignor.)
Holliday, Edgar P. (See Holliday, Read and E. P.)
Holliday, Edgar P. and R., New York, N. Y. Change-speed gearing. No. 1,039,743; Oct. 1; Gaz. vol. 183; p. 24.
Holliday, John S. (See Lewis and Holliday.)
Holliday, John S., Wilkinsburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Apparatus for governing the passage of cars or vehicles along a railway and the control thereof. No. 1,014,966; Jan. 16; Sp. p. 4188; Gaz. vol. 174; p. 705.
Holliday, John S., Wilkinsburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway signaling. No. 1,039,744; Oct. 1; Gaz. vol. 183; p. 25.
Holliday, Read. (See Holliday, Edgar P. and R.)
Holliday, Read and E. P., New York, N. Y. Change-speed gearing. No. 1,039,745; Oct. 1; Gaz. vol. 183; p. 25.
Holliday, William A., Paradise, Tex. Apparatus for administering medicine to live stock. No. 1,014,474; Jan. 9; Sp. p. 3053; Gaz. vol. 174; p. 506.
Hollier, Walter J., St. Louis, assignor of one-half to R. H. McCord, Kansas City, Mo. Machine for decorticating flax. No. 1,023,152; Apr. 16; Sp. p. 3025; Gaz. vol. 177; p. 543.
Hollifield, Horatio B., Washington, D. C. Practice apparatus for small-arms. No. 1,016,150; Jan. 30; Sp. p. 6700; Gaz. vol. 174; p. 1164.
Hollings, Harry, Rose View, Currie, Scotland. Automatic sheet-separator for vacuum picking-up rollers. No. 1,045,551; Nov. 26; Gaz. vol. 184; p. 965.
Hollings, Harry V. (See Jacobsen and Hollings.)
Hollings, Thomas E. (See Walker and Hollings.)
Hollingsworth, Charles M., Washington, D. C. Handle for suit-cases and the like. No. 1,047,941; Dec. 24; Gaz. vol. 185; p. 844.
Hollingsworth, Claude. (See Carley and Hollingsworth.)
Hollingsworth, Frank I., Denver, Colo. Attachment for electroliers. No. 1,023,649; Apr. 16; Sp. p. 4017; Gaz. vol. 177; p. 705.
Hollingsworth, Rea, Grant Park, assignor of one-third to H. B. Crum, Chicago, Ill. Car-unloading shovel. No. 1,038,585; Sept. 17; Gaz. vol. 182; p. 543.
Hollingsworth, Robert, New York, N. Y. Wood-carver's tool-holder. No. 1,031,183; July 2; Gaz. vol. 180; p. 119.
Hollingsworth, William G., Sheboygan, Wis. Liquid-dispensing machine. No. 1,015,680; Jan. 23; Sp. p. 5703; Gaz. vol. 174; p. 975.
Hollins, Denis M., Blackburn, England, assignor to Draper Company, Hopedale, Mass. Thread-cutting mechanism for automatic looms. No. 1,018,496; Feb. 27; Sp. p. 5019; Gaz. vol. 175; p. 883.
Hollins, Denis M., Blackburn, England, assignor to Draper Company, Hopedale, Mass. Automatic weft-replenishing loom. No. 1,038,888; Sept. 17; Gaz. vol. 182; p. 649.
Hollis, Henry L., and F. O. Melcher, Winnetka, Ill. Boring-machine. No. 1,047,411; Dec. 17; Gaz. vol. 185; p. 630.
Hollis, Miles S., New York, N. Y. Stop-cock. No. 1,040,327; Oct. 8; Gaz. vol. 183; p. 250.
Hollis, Thamos G., and S. Gibney, assignors to Firm of W. G. Hollis, Reading, Pa. Flooding device for chocolate-coating machines. No. 1,029,124; June 11; Sp. p. 2290; Gaz. vol. 179; p. 391.
Hollis, Firm of W. G. (See Hollis and Gibney, assignors.)
Hollis, Warren T., Boston, Mass. Machine for measuring surface areas. No. 1,016,012; Jan. 30; Sp. p. 6419; Gaz. vol. 174; p. 1117.
Hollister, Harold A. (See Campbell, George W., assignor.)
Hollister, Harold A. (See Darley, John W., Jr., assignor.)
Hollopeter, Frederick W. (See Anderson, Boyce, and Hollopeter.)
Holloway, Chester L., Passaic, assignor to Richardson Scale Company, Athenia, N. J. Refuse-receptacle. No. 1,014,475; Jan. 9; Sp. p. 3054; Gaz. vol. 174; p. 507.
Holloway, James P., Washington, D. C. Holder for flexible metal-sheathed wire cables, &c. No. 1,033,894; July 30; Gaz. vol. 180; p. 1188.
Hollowell, William S., *et al.* (See Gibson, George H., assignor.)
Holly, Carlos, Lockport, assignor to The F. N. Burt Company, Limited, Buffalo, N. Y. Binder-gluing device. No. 1,034,710; Aug. 6; Gaz. vol. 181; p. 103.
Holly, Carlos, Lockport, assignor to The F. N. Burt Company, Limited, Buffalo, N. Y. Machine for forming paper blanks. No. 1,040,987; Oct. 8; Gaz. vol. 183; p. 478.
Holly, Carlos, Lockport, assignor to The F. N. Burt Company, Limited, Buffalo, N. Y. Making boxes. No. 1,041,285; Oct. 15; Gaz. vol. 183; p. 613.
Holly, Carlos, Lockport, assignor, by mesne assignments, to F. N. Burt Company, Limited, Buffalo, N. Y. Box. No. 1,041,475; Oct. 15; Gaz. vol. 183; p. 674.
Hollzer, Marc. (See Macowsky and Hollzer.)
Holm, Charles W., assignor to The Troy Acetylene Company, Troy, Ohio. Acetylene-gas generator. No. 1,032,676; July 16; Gaz. vol. 180; p. 715.
Holm, Charlotte C., *et al.*, executors. (See Holm, Peter J.)
Holm, Hans P., Hampton, Iowa. Cooking utensil. No. 1,028,726; June 4; Sp. p. 1411; Gaz. vol. 179; p. 220.
Holm, John H., *et al.*, executors. (See Holm, Peter J.)
Holm, Peter J., deceased; J. H. and C. C. Holm, Eau Claire, Wis., executors. Governor for internal-combustion engines. No. 1,015,889; Jan. 30; Sp. p. 6158; Gaz. vol. 174; p. 1073.
Holman Brothers. (See Cock, Benjamin, assignor.)
Holman, Ivey, Berlin, Ontario, Canada. Leather club-bag, chatelaine, and the like. No. 1,032,677; July 16; Gaz. vol. 180; p. 716.
Holman, James M. and J. L., Camborne, England. Rock-drill. No. 1,029,294; June 11; Sp. p. 2644; Gaz. vol. 179; p. 448.
Holman, John. (See Barlow and Holman.)
Holman, John L. (See Holman, James M. and J. L.)
Holman, Joseph P., assignor to F. A. Whitney Carriage Co., Leominster, Mass. Perambulator. No. 1,036,117; Aug. 20; Gaz. vol. 181; p. 649.

Alphabetical list of patentees—Continued.

Holman, Nicholas, Chicago, Ill. Mixing-machine. No. 1,040.328; Oct. 8; Gaz. vol. 183; p. 251.
Holman, Nicholas, Chicago, Ill. Furnace for cooking and mixing candy. No. 1,040,681; Oct. 8; Gaz. vol. 183; p. 377.
Holman, Reuben L., assignor to E. E. Gross, Stockton, Cal. Whistle. No. 1,047,890; Dec. 17; Gaz. vol. 185; p. 799.
Holman, Robert C., and G. I. Theile, assignors to The Hooven, Owens, Rentschler Company, Hamilton, Ohio. Steam-engine lubricator. No. 1,018,112; Feb. 20; Sp. p. 4182; Gaz. vol. 175; p. 720.
Holmberg, Per, Glencoe, assignor of one-half to A. G. Leonard, Chicago, Ill. Reinforced concrete structure. No. 1,024,852; Apr. 30; Sp. p. 6701; Gaz. vol. 177; p. 1180.
Holmdahl, Torsten, New York, N. Y. Duplex hand-mirror. No. 1,024,510; Apr. 30; Sp. p. 5934; Gaz. vol. 177; p. 1059.
Holme, Edward M., Stockport, England. Controller for electric cranes. No. 1,017,150; Feb. 13; Sp. p. 2053; Gaz. vol. 175; p. 352.
Holmes, Arthur E., Pittsfield, Mass. Box-making machine. No. 1,048,534; Dec. 31; Gaz. vol. 185; p. 1082.
Holmes, Bradford B., South Bellingham, Wash. Revolver. No. 1,047,054; Dec. 10; Gaz. vol. 185; p. 473.
Holmes, Charles P., Lynn, assignor to S. W. Winslow, Beverly, Mass. Sewing-machine. No. 1,030,812; June 25; Sp. p. 6269; Gaz. vol. 179; p. 1057.
Holmes, Charles P., Lynn, assignor to S. W. Winslow, Beverly, Mass. Forming chain-stitches. No. 1,030,813; June 25; Sp. p. 6275; Gaz. vol. 179; p. 1058.
Holmes, Charles P., Lynn, assignor to S. W. Winslow, Beverly, Mass. Sewing-machine. No. 1,030,814; June 25; Sp. p. 6277; Gaz. vol. 179; p. 1058.
Holmes, Charles P., Lynn, assignor to S. W. Winslow, Beverly, Mass. Forming chain-stitch seams. No. 1,030,815; June 25; Sp. p. 6282; Gaz. vol. 179; p. 1058.
Holmes, Charles P., Lynn, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Sewing-machine. No. 1,030,816; June 25; Sp. p. 6284; Gaz. vol. 179; p. 1059.
Holmes, Edward L., Seattle, Wash. Linotype movable-jaw-adjusting device. No. 1,047,412; Dec. 17; Gaz. vol. 185; p. 630.
Holmes, Frank H., Oil City, Pa. Connecting device for pipe-elevators. No. 1,021,984; Apr. 2; Sp. p. 500; Gaz. vol. 177; p. 80.
Holmes, Frank J., assignor to Vulcan Electric Heating Company, Chicago, Ill. Electrical heating device. No. 1,027,337; May 21; Sp. p. 4959; Gaz. vol. 178; p. 835.
Holmes, Glenn E., Chicago, Ill. Foot-scraper. No. 1,037,252; Sept. 3; Gaz. vol. 182; p. 26.
Holmes, Grant, assignor to Robert Holmes & Brothers, Danville, Ill. Cager and sump-guard. No. 1,031,714; July 9; Gaz. vol. 180; p. 343.
Holmes, Gwyllym R., assignor of one-fourth to F. Porto and one-fourth to J. Deluca, Baltimore, Md. Incandescent-lamp filament. No. 1,014,878; Jan. 16; Sp. p. 3994; Gaz. vol. 174; p. 675.
Holmes, Homer E., Burlington, Vt. Utensil-cover. No. 1,025,090; Apr. 30; Sp. p. 7183; Gaz. vol. 177; p. 1258.
Holmes, Howard, South Norwalk, Conn. Hat-pouncing machine. No. 1,018,562; Feb. 27; Sp. p. 5218; Gaz. vol. 175; p. 907.
Holmes, John, Boston, Mass. Display device. No. 1,019,151; Mar. 5; Sp. p. 324; Gaz. vol. 176; p. 50.
Holmes, John W., assignor of one-half to F. A. MacRae, Troy, N. Y. Folding-machine. No. 1,022,736; Apr. 9; Sp. p. 2121; Gaz. vol. 177; p. 364.
Holmes, Lawrence, Los Angeles, Cal. Condensed disappearing bed. No. 1,033,401; July 23; Gaz. vol. 180; p. 998.
Holmes, Lewis W., and C. V. Trautman, Medora, Ind. Controlling attachment for heating-lamps. No. 1,041,083; Oct. 15; Gaz. vol. 183; p. 543.
Holmes, Lillian H., executrix. (See Holmes, Marshall F.)
Holmes, Lillian H., executrix. (See Lennox, Talbot.)
Holmes, Marshall F. (See Lennox, Talbot, assignor.)
Holmes, Marshall F., deceased, Chicago, Ill.; L. H. Holmes, executrix. Railway-crossing. No. 1,043,426; Nov. 5; Gaz. vol. 184; p. 136.
Holmes, Marshall F., deceased, Chicago, Ill.; L. H. Holmes, executrix. Railway-crossing structure. No. 1,043,427; Nov. 5; Gaz. vol. 184; p. 136.
Holmes, Milian H., and W. A. Matheson, Chicago, Ill. Wall-bed. No. 1,037,911; Sept. 10; Gaz. vol. 182; p. 279.
Holmes, Nathan L., assignor to G. C. Petersen & Son, Racine, Wis. Bolster-spring for wagons. No. 1,026,746; May 21; Sp. p. 3637; Gaz. vol. 178; p. 632.
Holmes, Philander J. (See Mason, Charles, assignor.)
Holmes, Robert P. (See Lemmon and Holmes.)
Holmes, Samuel F., Los Angeles, Cal. Permutation-padlock. No. 1,018,616; Feb. 27; Sp. p. 5321; Gaz. vol. 175; p. 923.
Holmes, Thomas E., assignor of one-half to Davy Brothers Limited, Sheffield, England. Steam hydraulic intensifier. No. 1,045,029; Nov. 19; Gaz. vol. 184; p. 752.
Holmes, Wesley S., Ithaca, and W. B. Johnson, assignors to A. Zinsser, Jr., trustee, New York, N. Y. Cushion-tire for vehicles. No. 1,027,130; May 21; Sp. p. 4559; Gaz. vol. 178; p. 766.
Holmgreen, Julius H., and W. H. Underwood, San Antonio, Tex. Air-lift pump. No. 1,033,895; July 30; Gaz. vol. 180; p. 1189.
Holmquist, John O., Chicago, Ill. Self-squaring curtain-stretcher. (Reissue.) No. 13,379; Mar. 5; Sp. p. 1599; Gaz. vol. 176; p. 249.
Holmquist, John O., Chicago, Ill. Curtain-stretcher. No. 1,022,737; Apr. 9; Sp. p. 2124; Gaz. vol. 177; p. 364.
Holm's Machine Manufacturing Company. (See Turner, Giles M., assignor.)
Holmström, Johan G. (See Egnér and Holmström.)
Holophane Glass Company. (See Dorey, William A., assignor.)
Holser, Jacob P., Wynantskill, N. Y. Gang-plow. No. 1,035,361; Aug. 13; Gaz. vol. 181; p. 356.
Holsey, Arthur. (See Dennis and Holsey.)
Holsman Equipment Company. (See Bulley, George W., assignor.)
Holst, Lodewyk J. R., Lansdowne, assignor to Williams, Brown and Earle, Inc., Philadelphia, Pa. Automatic focusing apparatus for photographic lenses. No. 1,029,295; June 11; Sp. p. 2645; Gaz. vol. 179; p. 449.
Holst, Lodewyk J. R., Lansdowne, assignor to Williams, Brown and Earle, Inc., Philadelphia, Pa. Means for mechanically focusing photographic lenses. No. 1,029,296; June 11; Sp. p. 2651; Gaz. vol. 179; p. 449.
Holst, Lodewyk J. R., Lansdowne, assignor to Williams, Brown and Earle, Inc., Philadelphia, Pa. Means for mechanically focusing photographic lenses. No. 1,029,297; June 11; Sp. p. 2654; Gaz. vol. 179; p. 450.
Holst, Lodewyk J. R., Lansdowne, assignor to Williams, Brown and Earle, Inc., Philadelphia, Pa. Index device for step and repeat and other machines. No. 1,048,968; Dec. 31; Gaz. vol. 185; p. 1232.
Holstein & Kappert, Maschinenfabrik Phonix, G. m. b. H. (See Petersen, Adolf J., assignor.)
Holstein, Samuel, New York, N. Y. Cabinet for holding phonograph or graphophone disk records. No. 1,033,014; July 16; Gaz. vol. 180; p. 828.
Holström, Axel, Paris, France. Propeller. No. 1,025,399; May 7; Sp. p. 651; Gaz. vol. 178; p. 102.
Holt, Benjamin, Stockton, Cal. Traction-engine. No. 1,026,037; May 14; Sp. p. 2073; Gaz. vol. 178; p. 355.
Holt, Benjamin, Stockton, Cal. Traction-engine. No. 1,026,090; May 14; Sp. p. 2217; Gaz. vol. 178; p. 374.
Holt, Benjamin, Stockton, Cal. Traction-engine. No. 1,026,091; May 14; Sp. p. 2221; Gaz. vol. 178; p. 375.
Holt, Benjamin, Albion, N. Y. Animal-trap. No. 1,040,329; Oct. 8; Gaz. vol. 183; p. 251.
Holt, Charles. (See Glover and Holt.)
Holt, George M., assignor to L. F. Boothe, Spokane, Wash. Water-elevator. No. 1,014,879; Jan. 16; Sp. p. 3996; Gaz. vol. 174; p. 676.
Holt, Harold E. S., Farnborough, England. Razor. No. 1,016,267; Feb. 6; Sp. p. 51; Gaz. vol. 175; p. 11.
Holt, Harold E. S., Farnborough, England. Razor. No. 1,018,420; Feb. 27; Sp. p. 4845; Gaz. vol. 175; p. 858.
Holt, Harris B. (See Elliott, Mills, and Holt.)
Holt, Harris B., Pittsburgh, Pa. Rotary motor. No. 1,048,453; Dec. 24; Gaz. vol. 185; p. 1015.
Holt, Harry, Leamington Spa, England. Folding and detachable car or carriage for use with cycles or motor-cycles. No. 1,047,226; Dec. 17; Gaz. vol. 185; p. 565.
Holt, Henry S. A., assignor to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Halogenized indigo compounds and making such bodies. No. 1,042,679; Oct. 29; Gaz. vol. 183; p. 1148.
Holt, Henry S. A., Ludwigshafen-on-the-Rhine, and O. Schmidt, Mannheim, assignors to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Aromatic ammonium compounds and making same. No. 1,036,241; Aug. 20; Gaz. vol. 181; p. 695.
Holt, Herbert. (See Seeley and Holt.)
Holt, James C. (See Barrickman and Holt.)
Holt, Pliny E., Stockton, Cal. Two-wheeled dump-wagon. No. 1,017,972; Feb. 20; Sp. p. 3879; Gaz. vol. 175; p. 671.
Holt, Pliny E., Stockton, Cal. Autotractor "A" frame. No. 1,020,283; Mar. 12; Sp. p. 2715; Gaz. vol. 176; p. 460.
Holt, Pliny E., Stockton, Cal. Pivoted rear traction-trucks. No. 1,024,990; Apr. 30; Sp. p. 6983; Gaz. vol. 177; p. 1226.
Holt, William A., Oconto, Wis. Log-carrying car. No. 1,020,824; Mar. 19; Sp. p. 3879; Gaz. vol. 176; p. 678.
Holt, William L., assignor to Hartman Manufacturing Company, Vincennes, Ind. Cultivator-tooth attachment. No. 1,020,202; Mar. 12; Sp. p. 2559; Gaz. vol. 176; p. 434.
Holtfrerich, Hubert A., Dodge City, Kans. End-gate. No. 1,041,794; Oct. 22; Gaz. vol. 183; p. 818.
Holthaus, Edward D. (See Hallbauer, William M., assignor.)

Alphabetical list of patentees—Continued.

Holthoff, Henry C., Mexico, Mexico, assignor to Allis-Chalmers Company, Milwaukee, Wis. Feed and discharge end-liner for tube-mills. No. 1,018,320; Feb. 20; Sp. p. 4607; Gaz. vol. 175; p. 791.
Holthoff, Henry C., Mexico, Mexico, assignor to Allis-Chalmers Company, Milwaukee, Wis. Settling and separating tank. No. 1,043,698; Nov. 5; Gaz. vol. 184; p. 230.
Holthoff, Henry C., assignor to Allis-Chalmers Company, Milwaukee, Wis. Water-jacket. No. 1,047,055; Dec. 10; Gaz. vol. 185; p. 473.
Holton, Abby T., Concord, Vt. Strainer. No. 1,028,114; June 4; Sp. p. 41; Gaz. vol. 179; p. 11.
Holton, Frank. (See Storrs, Fred C., assignor.)
Holts, Mack, Chicago, Ill. Broom-brace. No. 1,041,084; Oct. 15; Gaz. vol. 183; p. 543.
Holtz, Emerson E., assignor of one-fourth to H. B. Stridiron and one-fourth to E. Kowalk, Billings, Mont. Metal flume or trough. No. 1,022,138; Apr. 2; Sp. p. 821; Gaz. vol. 177; p. 130.
Holtz, George A., Riverside, Cal. Combined bolt-board and sample-holder. No. 1,014,304; Jan. 9; Sp. p. 2691; Gaz. vol. 174; p. 449.
Holtz, George F. (See Wilk and Holtz.)
Holtzbauer, Mathias A. (See De Laney and Holtzbauer.)
Holtzen, John F., Orlando, Okla. Draft attachment. No. 1,021,314; Mar. 26; Sp. p. 4894; Gaz. vol. 176; p. 894.
Holtzer-Cabot Electric Company. (See Heeney, Henry J., assignor.)
Holtzer-Cabot Electric Company, The. (See Kennedy, Carlton L., assignor.)
Holtzer-Cabot Electric Company. (See Poole, Arthur F., assignor.)
Holtzer-Cabot Electric Company. (See Tormin, Egmont M., assignor.)
Holtzman, Abraham L., East Orange, N. J. Tooth-brush. No. 1,045,552; Nov. 26; Gaz. vol. 184; p. 965.
Holz, Herman A. (See Strafer, Aaron F., assignor.)
Holzapfel, William J., Eddystone, Pa. Melting-furnace. No. 1,037,768; Sept. 3; Gaz. vol. 182; p. 197.
Holzinger, John F. (See Mullin, John R., assignor.)
Holzrichter, Ferdinand, assignor to Bartels, Dierichs & Co., Gesellschaft mit beschrankter Haftung, Barmen, Germany. Lace-making machine. No. 1,042,003; Oct. 22; Gaz. vol. 183; p. 889.
Holzwarth, Hans, Mannheim, assignor of one-half to E. Junghans, Schramberg, Germany. Gas-turbine and the like. No. 1,033,015; July 16; Gaz. vol. 180; p. 828.
Holzwarth, Hans, Mannheim, assignor of one-half to E. Junghans, Schramberg, Germany. Gas-turbine. No. 1,043,767; Nov. 5; Gaz. vol. 184; p. 253.
Holzwarth, Hans, Mannheim, assignor of one-half to E. Junghans, Schramberg, Germany. Gas-turbine. No. 1,043,768; Nov. 5; Gaz. vol. 184; p. 253.
Homan, James, Grandview, Manitoba, Canada. Grain-shocking machine. No. 1,016,628; Feb. 6; Sp. p. 920; Gaz. vol. 175; p. 137.
Homan, William C., assignor to Edward Miller & Company, Meriden, Conn. Globe and shade holder. No. 1,029,298; June 11; Sp. p. 2658; Gaz. vol. 179; p. 450.
Home Vacuum Cleaner Company. (See Rubel, Simon L., assignor.)
Homer Roberts Telephone Co. (See Roberts, Homer J., assignor.)
Homer, William B., Springfield, S. D. Gate. No. 1,044,388; Nov. 12; Gaz. vol. 184; p. 499.
Homolka, Benno. (See Welde and Homolka.)
Homolya, Frederick, Kenosha, Wis. Spring-wheel. No. 1,029,867; June 18; Sp. p. 3932; Gaz. vol. 179; p. 684.
Homolya, Frederick, Kenosha, Wis. Motor-cranking device. No. 1,029,868; June 18; Sp. p. 3933; Gaz. vol. 179; p. 684.
Hompesch & Company. (See Horváth, Richard von, assignor.)
Homsher, Carl S. (See Healey and Homsher.)
Honabach, Clarence W., and C. S. Bryant, Edwardsville, Pa. Spraying device. No. 1,035,441; Aug. 13; Gaz. vol. 181; p. 383.
Honegger, Emil, assignor to Maschinenfabrik, Oerlikon, Oerlikon, Switzerland. Press. No. 1,016,070; Jan. 30; Sp. p. 6558; Gaz. vol. 174; p. 1138.
Honess, Edwin, Cleveland, Ohio. Device for promoting combustion in furnaces. No. 1,028,879; June 11; Sp. p. 1755; Gaz. vol. 179; p. 307.
Honest, Charles, New York, N. Y. Clothes-hanging attachment for bedsteads. No. 1,037,253; Sept. 3; Gaz. vol. 182; p. 26.
Honey, Albert H., Los Angeles, Cal. Well-pumping mechanism. No. 1,028,822; June 4; Sp. p. 1617; Gaz. vol. 179; p. 252.
Honigmann, Hans, assignor of one-third to E. G. Hilliard and one-third to O. F. Collier, Duluth, Minn. Sheet-registering device for printing-presses. No. 1,029,445; June 11; Sp. p. 2999; Gaz. vol. 179; p. 502.
Honiss, William H., *et al.* (See Arkell, Bartlett, assignor.)
Honiss, William H., *et al.* (See Lorenz, William A., assignor.)
Honiss, William H., *et al.* (See Merritt, Joseph, assignor.)
Honold, Gottlob, Stuttgart, Germany. Contact-breaker for electrical ignition apparatus for internal-combustion engines. No. 1,041,476; Oct. 15; Gaz. vol. 183; p. 675.
Honold, Gottlob, Stuttgart, Germany. Electrical ignition apparatus for internal-combustion engines. No. 1,041,477; Oct. 15; Gaz. vol. 183; p. 675.
Honold, Gottlob, Stuttgart, Germany. Apparatus for starting internal-combustion engines. No. 1,043,595; Nov. 5; Gaz. vol. 184; p. 196.
Honold, Gottlob, Stuttgart, Germany. Ignition apparatus for large internal-combustion engines. No. 1,047,891; Dec. 17; Gaz. vol. 185; p. 800.
Honold, Gottlob, assignor to Firm of R. Bosch, Stuttgart, Germany. Magnet-frame for electric ignition-machines. No. 1,020,143; Mar. 12; Sp. p. 2415; Gaz. vol. 176; p. 412.
Honold, Gottlob, assignor to Firm of R. Bosch, Stuttgart, Germany. Current interrupter and distributer for electrical ignition apparatus. No. 1,022,241; Apr. 2; Sp. p. 1040; Gaz. vol. 177; p. 166.
Honold, Gottlob, assignor to Firm of R. Bosch, Stuttgart, Germany. Mechanical interrupter for electrical ignition systems. No. 1,023,936; Apr. 23; Sp. p. 4654; Gaz. vol. 177; p. 827.
Honold, Gottlob, assignor to Firm of R. Bosch, Stuttgart, Germany. Binding-post for connecting electric cables. No. 1,030,817; June 25; Sp. p. 6287; Gaz. vol. 179; p. 1059.
Honold, Gottlob, assignor to Firm of R. Bosch, Stuttgart, Germany. Contact-terminal for interrupting electric circuits. No. 1,047,524; Dec. 17; Gaz. vol. 185; p. 671.
Honold, Gottlob, and A. Zähringer, assignors to Firm of R. Bosch, Stuttgart, Germany. Igniting mechanism in internal-combustion engines. No. 1,017,212; Feb. 13; Sp. p. 2193; Gaz. vol. 175; p. 373.
Honold, Gottlob, Stuttgart, Germany, and M. Rall, Paris, France, assignors to Firm of R. Bosch, Stuttgart, Germany. Starting ignition for internal-combustion engines. No. 1,048,162; Dec. 24; Gaz. vol. 185; p. 918.
Honold, Gottlob, Stuttgart, Germany, M. Rall, Paris, France, and P. Mumprecht, Brussels, Belgium, assignors to Firm of R. Bosch, Stuttgart, Germany. Electric ignition system for internal-combustion engines. No. 1,014,824; Jan. 16; Sp. p. 3866; Gaz. vol. 174; p. 656.
Honolulu Iron Works Company. (See Dyer and Ewart, assignors.)
Honolulu Iron Works Company. (See Kimball and Pratt, assignors.)
Hoobler, Bertie R., New York, N. Y. Blood-pressure-determining device. No. 1,043,521; Nov. 5; Gaz. vol. 184; p. 171.
Hood, Alexander J., Muscoda, Wis. Counter for platen printing-presses. No. 1,014.476; Jan. 9; Sp. p. 3056; Gaz. vol. 174; p. 507.
Hood, Arthur N. (See Duncan and Hood.)
Hood, Charles Y., Wilkinsburg, and J. Chalmers, Homewood, Pa. Automatic choke-valve. No. 1,017,415; Feb. 13; Sp. p. 2624; Gaz. vol. 175; p. 443.
Hood, Harvey H., Charlotte, N. C. Combined planter and fertilizer-distributer. No. 1,048,074; Dec. 24; Gaz. vol. 185; p. 887.
Hood, John, assignor of one-half to J. Pitton, Detroit, Mich. Excavating-machine. No. 1,020,504; Mar. 19; Sp. p. 3167; Gaz. vol. 176; p. 569.
Hood, John R., Buffalo, N. Y. Garment-form. No. 1,043,428; Nov. 5; Gaz. vol. 184; p. 137.
Hood, Robert, Cedarville, Ohio. Spring-wheel. No. 1,029,755; June 18; Sp. p. 3665; Gaz. vol. 179; p. 646.
Hood Rubber Company. (See Duncan, William W., assignor.)
Hood Rubber Company. (See Duncan and Hood, assignors.)
Hood Rubber Company. (See Duncan and Tousley, assignors.)
Hood Rubber Company. (See Kyriakides and Earle, assignors.)
Hoofer, Charles F., Spokane, Wash. Oil-feeding device. No. 1,038,889; Sept. 17; Gaz. vol. 182; p. 649.
Hoofnagle, William T., Glen Ridge, N. J. Apparatus for the electrical treatment of vapors or gases. No. 1,014,151; Jan. 9; Sp. p. 2360; Gaz. vol. 174; p. 394.
Hoofnagle, William T., Bloomfield, N. J., assignor of one-half to R. Watson, Washington, D. C. Machine for justifying lines of type. No. 1,022,418; Apr. 9; Sp. p. 1383; Gaz. vol. 177; p. 254.
Hoofnagle, William T., Glen Ridge, N. J., assignor to C. F. Frothingham, New York, N. Y. Dish-washing machine. No. 1,043,010; Oct. 29; Gaz. vol. 183; p. 1261.
Hoofnagle, William T., Glen Ridge, N. J., assignor to C. F. Frothingham, New York, N. Y. Drying apparatus. No. 1,043,011; Oct. 29; Gaz. vol. 183; p. 1261.
Hook, Curnealus, Vigo, Ohio. Kiln. No. 1,037,769; Sept. 3; Gaz. vol. 182; p. 198.
Hook, Samuel H. (See Fountain and Hook.)
Hooker, Duncan C., Farmington, assignor to The Johns-Pratt Company, Hartford, Conn. Disconnecting electrical switch. No. 1,039,129; Sept. 24; Gaz. vol. 182; p. 744.
Hooker, Edward W., assignor of one-half to R. H. Kastor, St. Louis, Mo. Machine for treating weeviled cereals. No. 1,036,242; Aug. 20; Gaz. vol. 181; p. 695.

Alphabetical list of patentees—Continued.

Hooker, Edward W., assignor of one-half to R. H. Kastor, St. Louis, Mo. Treating grain. No. 1,036,243; Aug. 20; Gaz. vol. 181; p. 696.
Hooks, William L., Mars, assignor of one-half to S. E. Walters, Valencia, Pa. Broom. No. 1,043,429; Nov. 5; Gaz. vol. 184; p. 137.
Hoop, James B., Portland, assignor of one-half to W. Newton, Denver, Colo. Grinding-mill. No. 1,021,191; Mar. 26; Sp. p. 4689; Gaz. vol. 176; p. 850.
Hooper, George K., Madison, N. J. Duplex spout for furnaces. No. 1,016,013; Jan. 30; Sp. p. 6420; Gaz. vol. 174; p. 1117.
Hooper, John C., assignor of one-half to H. M. Jones, Brunswick, Md. Automatic high-pressure-reducing valve. No. 1,036,244; Aug. 20; Gaz. vol. 181; p. 696.
Hooper, Martin T., Midland, Tex. Corn and cotton planter. No. 1,029,125; June 11; Sp. p. 2291; Gaz. vol. 179; p. 391.
Hoopes, Henry R. (See Selah, Howard A., assignor.)
Hoops, Charles E., Portland, Oreg. Hat-pin protector. No. 1,016,943; Feb. 13; Sp. p. 1581; Gaz. vol. 175; p. 279.
Hoosier Account Register Company, The. (See Dulin, John L., assignor.)
Hooton, Pinkie D., Hughes Springs, Tex. Box-car-door fastener. No. 1,020,604; Mar. 19; Sp. p. 3395; Gaz. vol. 176; p. 603.
Hoots, Frederick E., *et al.* (See Cole, Milton E., assignor.)
Hooven, Owens, Rentschler Company, The. (See Holman and Theile, assignors.)
Hoover, Charles A., Fair Oaks, and J. G. Hetrick, Ambridge, Pa. Wrench. No. 1,041,627; Oct. 15; Gaz. vol. 183; p. 722.
Hoover, Charles E. (See Dungan and Hoover.)
Hoover, David B., Elizabethtown, Pa. Concrete-mixing machine. No. 1,029,126; June 11; Sp. p. 2293; Gaz. vol. 179; p. 391.
Hoover, Edgar W., and J. A. Coleman, Danville, Ky. Car-mover. No. 1,035,966; Aug. 20; Gaz. vol. 181; p. 596.
Hoover, Edgar W., and J. A. Coleman, Danville, Ky. Tie-nipper. No. 1,048,163; Dec. 24; Gaz. vol. 185; p. 919.
Hoover, Guy F., Sherman, Tex. Recording device. No. 1,029,062; June 11; Sp. p. 2153; Gaz. vol. 179; p. 371.
Hoover, John A., *et al.* (See Wilkes, Paul, assignor.)
Hoover, Joseph W., Winfield, Kans. Header. No. 1,042,438; Oct. 29; Gaz. vol. 183; p. 1062.
Hoover, Oliver S., Laton, and J. A. Miller, Palo Alto, Cal. Automatic hammer. No. 1,048,535; Dec. 31; Gaz. vol. 185; p. 1082.
Hoover Suction Sweeper Company, The. (See Case, Francis M., assignor.)
Hoover Suction Sweeper Company, The. (See Spangler, James M., assignor.)
Hoover, William J., and C. T. Kurtz, Clearfield, Pa. Horseshoe. No. 1,033,402; July 23; Gaz. vol. 180; p. 999.
Hope, John F. (See Hope, John T., assignor.)
Hope, John T., Kansas City, Mo. Vacuum cleaning-tool. No. 1,033,016; July 16; Gaz. vol. 180; p. 828.
Hope, John T., assignor to J. F. Hope, Kansas City, Mo. Rotary blower or pump. No. 1,043,936; Nov. 12; Gaz. vol. 184; p. 344.
Hope-Jones, Frank, London, England. Electric time-indicator and alarm. No. 1,047,810; Dec. 17; Gaz. vol. 185; p. 772.
Hope-Jones, Robert, assignor to The Rudolph Wurlitzer Manufacturing Company, North Tonawanda, N. Y. Organ-swell. No. 1,021,149; Mar. 26; Sp. p. 4539; Gaz. vol. 176; p. 837.
Hope, William J., Tunica, Miss. Broom-holder. No. 1,049,238; Dec. 31; Gaz. vol. 185; p. 1324.
Hopes, William. (See Hilty and Hopes.)
Hopewell, Charles F., Newton, Mass. Spare-tire case. No. 1,026,316; May 14; Sp. p. 2701; Gaz vol. 178; p. 452.
Hopewell, Charles F., Newton, Mass. Tire-case. No. 1,037,482; Sept. 3; Gaz. vol. 182; p. 105.
Hopkins, Albert J. (See Trotter, James, assignor.)
Hopkins, Alexander C., and H. M. Morgan, Princeton, Ind. Vulcanizer. No. 1,029,684; June 18; Sp. p. 3503; Gaz. vol. 179; p. 621.
Hopkins, Alfred, Chelsea, Mass. Fabric. No. 1,019,473; Mar. 5; Sp. p. 1073; Gaz. vol. 176; p. 158.
Hopkins & Allen Arms Company, The. (See Wright, Arthur C., assignor.)
Hopkins, Annie, Lewistown, Mont. Scissors. No. 1,017,545; Feb. 13; Sp. p. 2890; Gaz. vol. 175; p. 488.
Hopkins, Edward P., New York, N. Y., assignor to Thomas A. Edison, Incorporated, West Orange, N. J. Kinetoscope. No. 1,027,731; May 28; Sp. p. 5766; Gaz. vol. 178; p. 1004.
Hopkins, Ezra F., Chicago, Ill. Power-generating apparatus. No. 1,031,118; July 2; Gaz. vol. 180; p. 96.
Hopkins, Ezra F., Chicago, Ill. Spark-plug. No. 1,044,528; Nov. 19; Gaz. vol. 184; p. 577.
Hopkins, Ezra F., Chicago, Ill. Internal-combustion turbine. No. 1,047,227; Dec. 17; Gaz. vol. 185; p. 565.
Hopkins, Francis A., assignor to Carlin Calculator Company, Chicago, Ill. Calculating-machine. No. 1,038,890; Sept. 17; Gaz. vol. 182; p. 650.
Hopkins, Henry S., Brooklyn, N. Y. Drying apparatus. No. 1,034,112; July 30; Gaz. vol. 180; p. 1264.
Hopkins, Henry S., Brooklyn, N. Y. Drying apparatus. No. 1,037,254; Sept. 3; Gaz. vol. 182; p. 27.
Hopkins, Hubert, assignor to The Moon-Hopkins Billing Machine Company, St. Louis, Mo. Motor-drive for calculating-machines. No. 1,025,698; May 7; Sp. p. 1305; Gaz. vol. 178; p. 203.
Hopkins, Hubert, assignor to Moon-Hopkins Billing Machine Company, St. Louis, Mo. Calculating-machine. No. 1,026,443; May 14; Sp. p. 2983; Gaz. vol. 178; p. 494.
Hopkins, Hubert, Maplewood assignor to Moon-Hopkins Billing Machine Company, St. Louis, Mo. Ribbon-reverse mechanism for type-writers and the like. No. 1,027,732; May 28; Sp. p. 5768; Gaz. vol. 178; p. 1005.
Hopkins, Hubert, St. Louis, Mo., assignor to Addograph Manufacturing Company. Adding and writing machine. No. 1,039,130; Sept. 24; Gaz. vol. 182; p. 745.
Hopkins, Hubert, St. Louis, Mo., assignor to Addograph Manufacturing Company. Adding and writing machine. No. 1,049,093; Dec. 31; Gaz. vol. 185; p. 1276.
Hopkins, Isabella G., St. Augustine, Fla. Supporting attachment for ice-cream freezers. No. 1,024,779; Apr. 30; Sp. p. 6550; Gaz. vol. 177; p. 1153.
Hopkins, James D., Clinton, Iowa. Hot-water heater. No. 1,033,588; July 23; Gaz. vol. 180; p. 1059.
Hopkins, James M., Chicago, Ill. Sliding-door fastener. No. 1,021,524; Mar. 26; Sp. p. 5380; Gaz. vol. 176; p. 968.
Hopkins, Mathew S., Highland, Md. Filter. No. 1,047,413; Dec. 17; Gaz. vol. 185; p. 631.
Hopkins, Mathew S., assignor to The Separate Recovery Company of America, Baltimore, Md. Recovery of oily ink from cloths. No. 1,021,737; Mar. 26; Sp. p. 5775; Gaz. vol. 176; p. 1037.
Hopkins, Mathew S., assignor to The Separate Recovery Company of America, Baltimore, Md. Apparatus for the recovery of oily ink from cloths. No. 1,021,738; Mar. 26; Sp. p. 5777; Gaz. vol. 176; p. 1037.
Hopkins, Solomon S., Waynesboro, Va. Combination mail-box and signaling mechanism. No. 1,021,100; Mar. 26; Sp. p. 4437; Gaz. vol. 176; p. 821.
Hopkins, Wellington B., Denver, Colo., assignor to The Schoolfield Safety Appliance Company. Safety device for passenger-carrying conveyances propelled by electricity. No. 1,025,091; Apr. 30; Sp. p. 7184; Gaz. vol. 177; p. 1259.
Hopkins, William D., *et al.* (See Fleming, Edward, assignor.)
Hopkins, William D. (See Fleming and Marsh, assignors.)
Hopkins, William G., Chicago, Ill. Mechanical account-book. No. 1,028,465; June 4; Sp. p. 885; Gaz. vol. 179; p. 133.
Hopkins, William W., assignor to Moon-Hopkins Billing Machine Company, St. Louis, Mo. Calculating-machine. No. 1,032,678; July 16; Gaz. vol. 180; p. 716.
Hopkinson, John H., Fall River, Mass. Shuttle-eye. No. 1,018,762; Feb. 27; Sp. p. 5638; Gaz. vol. 175; p. 974.
Hopkinson, Naaman D., San Francisco, Cal. Sanitary toilet-shield. No. 1,036,623; Aug. 27; Gaz. vol. 181; p. 858.
Hoppe, Fritz. (See Morris, Gruneisen, and Hoppe.)
Hoppe, Fritz, Solingen, Germany. Attachment of knife-blades to their handles. No. 1,043,699; Nov. 5; Gaz. vol. 184; p. 230.
Hoppe, Louis, Doon, Iowa. Gasolene-engine. No. 1,047,228; Dec. 17; Gaz. vol. 185; p. 566.
Hoppe, Mamie N., Hesperia, Mich. Press. No. 1,014,222; Jan. 9; Sp. p. 2507; Gaz. vol. 174; p. 421.
Hopper, James F., assignor of one-half to H. C. Smith, Sherman, Tex. Internal-combustion engine. No. 1,026,317; May 14; Sp. p. 2703; Gaz. vol. 178; p. 452.
Hopper, William, Jefferson, Iowa. Wagon-gate. No. 1,035,011; Aug. 6; Gaz. vol. 181; p. 204.
Hoppes, William C., Dawson, Nebr. Evener. No. 1,043,700; Nov. 5; Gaz. vol. 184; p. 231.
Horan, Dennis A., *et al.* (See Andel, Joseph, assignor.)
Horan, Patrick J., *et al.* (See Ironside, Matthew C., assignor.)
Horan, Thomas, *et al.* (See Andel, Joseph, assignor.)
Horat, Albert. (See Leonard and Smith, assignors.)
Horger, Thomas P., Orangeburg, S. C. Spring-wheel. No. 1,048,969; Dec. 31; Gaz. vol. 185; p. 1232.
Horlacher, George H., Portland, Oreg. Nozzle. No. 1,029,501; June 11; Sp. p. 3106; Gaz. vol. 179; p. 521.
Hörlein, Heinrich, Vohwinkel, near Elberfeld, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Phenylethylmalonic ester. No. 1,036,624; Aug. 27; Gaz. vol. 181; p. 859.
Hörlein, Heinrich, Vohwinkel, near Elberfeld, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Phenylethylcyanoacetic ester. No. 1,036,625; Aug. 27; Gaz. vol. 181; p. 859.
Horling, Bertus G., Coopersville, Mich. Tool for extracting well-points. No. 1,026,509; May 14; Sp. p. 3127; Gaz. vol. 178; p. 516.
Hormbrey, George E., Northwich, England. Luggage and like carrier for cycles. No. 1,021,044; Mar. 26; Sp. p. 4335; Gaz. vol. 176; p. 804.
Horn, Aaron C. (See Bladen, Walter C., assignor.)
Horn, Aaron C., New York, N. Y. Waterproofing compound. No. 1,031,003; July 2; Gaz. vol. 180; p. 54.

Alphabetical list of patentees—Continued.

Horn, Aaron C., New York, N. Y. Paint composition and making same. No. 1,049,536; Dec. 31; Gaz. vol. 185; p. 1083.
Horn, Aaron C., New York, N. Y. Composition for waterproofing concrete. No. 1,048,695; Dec. 31; Gaz. vol. 185; p. 1140.
Horn, Albro R. (See Fox, Horn, and Callaghan.)
Horn & Brother, William H. (See MacAdams, John L., assignor.)
Horn, Charles, Millbourne, assignor to Machen & Mayer Electrical Manufacturing Company, Philadelphia, Pa. Plug-switch. No. 1,042,228; Oct. 22; Gaz. vol. 183; p. 964.
Horn, Eli, and E. Sherman, Louisville, Ky. Machine for inserting corks in bottles. No. 1,013,493; Jan. 2; Sp. p. 885; Gaz. vol. 174; p. 141.
Horn, Ernest H., assignor to Waterbury Clock Co., Waterbury, Conn. Regulator for timepieces. No. 1,044,050; Nov. 12; Gaz. vol. 184; p. 383.
Horn, Frank C., Boise, Idaho. Cement-mixer. No. 1,047,636; Dec. 17; Gaz. vol. 185; p. 711.
Horn, Frederick G., Toledo, Ohio. Pipe-actuator. No. 1,047,942; Dec. 24; Gaz. vol. 185; p. 845.
Horn, Fredrick P. A. (See Berger, Reymond, and Horn.)
Horn, George H., Vesper, Wis. Silo. No. 1,031,793; July 9; Gaz. vol. 180; p. 370.
Horn, George H., Vesper, Wis. Silo. No. 1,031,794; July 9; Gaz. vol. 180; p. 370.
Horn, Jacob E. (See Koehler and Horn.)
Horn, Joseph, Philadelphia, Pa. Rotary tooth-brush. No. 1,022,139; Apr. 2; Sp. p. 823; Gaz. vol. 177; p. 130.
Horn, Joseph V., *et al.* (See Fritsche, John, assignor.)
Horn, Lafayette, Choice, Tex. Motor-driven implement. No. 1,044,655; Nov. 19; Gaz. vol. 184; p. 622.
Horn, William H., Hyde Park, N. Y. Match-box. No. 1,016,996; Feb. 13; Sp. p. 1707; Gaz. vol. 175; p. 298.
Hornbeck, Charles H., Waterford, N. Y. Paper machinery. No. 1,021,603; Mar. 26; Sp. p. 5532; Gaz. vol. 176; p. 993.
Hornbeck, Edward S. (See Sappington and Hornbeck.)
Hornbeck, Richard E., Richmond, Cal. Street or station indicator. No. 1,039,746; Oct. 1; Gaz. vol. 183; p. 26.
Hornbostel, Edward A., assignor to S. P. C. Gas Engine Company, Des Moines, Iowa. Internal-combustion engine. No. 1,043,769; Nov. 5; Gaz. vol. 184; p. 254.
Hornbostel, Ernest A., Jr., Des Moines, Iowa. Trolley-pole. No. 1,048,164; Dec. 24; Gaz. vol. 185; p. 919.
Hornby, Frank, Liverpool, England. Toy or game. No. 1,022,419; Apr. 9; Sp. p. 1407; Gaz. vol. 177; p. 254.
Horne, Charles E., Millbury, and C. D. Parker, Worcester, Mass. Apparatus for surfacing roads and the like. No. 1,048,165; Dec. 24; Gaz. vol. 185; p. 919.
Horne, Henry J. (See Moon and Horne.)
Horne, James. (See Dawson and Horne.)
Horne, Newton H., Kansas City, Mo. Tire. No. 1,027,733; May 28; Sp. p. 5770; Gaz. vol. 178; p. 1005.
Horne, Philip B., Denver, Colo. Type-writer attachment. No. 1,042,373; Oct. 22; Gaz. vol. 183; p. 1011.
Horne, Will R., Glade, Cal. Brush-grubber. No. 1,013,939; Jan. 9; Sp. p. 1802; Gaz. vol. 174; p. 324.
Horner, David C., St. Johnsbury, Vt. Bell. No. 1,031,002; July 2; Gaz. vol. 180; p. 53.
Horner, Edgar C., Clapham Park, London, England. Wheel for road-vehicles. No. 1,017,973; Feb. 20; Sp. p. 3880; Gaz. vol. 175; p. 671.
Horner, Harry E., Syracuse, N. Y. Garbage-strainer. No. 1,021,150; Mar. 26; Sp. p. 4543; Gaz. vol. 176; p. 837.
Horner, John W., Chicago, Ill. Razor-stropping device. No. 1,024,404; Apr. 23; Sp. p. 5664; Gaz. vol. 177; p. 986.
Horner, William C., Indianapolis, Ind. Baking. No. 1,044,179; Nov. 12; Gaz. vol. 184; p. 427.
Horner, William C., Indianapolis, Ind., assignor to The Art Screen Table Company, New York, N. Y. Folding table. No. 1,040,330; Oct. 8; Gaz. vol. 183; p. 251.
Horney, Merle B. (See Berg, Fred G., assignor.)
Horning, Frank E., Wayne county, Ind. Excavating-machine. No. 1,021,777; Apr. 2; Sp. p. 42; Gaz. vol. 177; p. 10.
Horning, Leonard C., Norwich, N. D. Rail-securing device. No. 1,045,792; Nov. 26; Gaz. vol. 184; p. 1048.
Hornor, Charles G., *et al.* (See Thomas, John W., assignor.)
Hornquist, Frank, Kane, assignor to The Safety Sled Company, Mount Jewett, Pa. Sled. No. 1,036,245; Aug. 20; Gaz. vol. 181; p. 696.
Hornsby, John A., Chicago, Ill. Bed. No. 1,043,701; Nov. 5; Gaz. vol. 184; p. 231.
Hornsby, Winsford H., Milltown, assignor of one-half to O. Gatchell, Tifton, Ga. Railway-tie and fastening. No. 1,042,916; Oct. 29; Gaz. vol. 183; p. 1229.
Hornseth, Sevrin P., Renville, Minn. Clothes-pin. No. 1,020,203; Mar. 12; Sp. p. 2562; Gaz. vol. 176; p. 434.
Hornstein, Morris, Jersey City, N. J. Non-refillable bottle. No. 1,032,213; July 9; Gaz. vol. 180; p. 512.
Horovich, Max, assignor of one-half to S. Lieberman, New York, N. Y. Clothes-line support. No. 1,026,865; May 21; Sp. p. 3899; Gaz. vol. 178; p. 673.
Horowitz, Arthur. (See Rosenberger, Arthur, assignor.)
Horowitz, Arthur, Berlin, Germany. Medicinal tablet. No. 1,021,674; Mar. 26; Sp. p. 5646; Gaz. vol. 176; p. 1016.
Horrell, John B., and A. S. Bryant, Santa Paula, assignors to H. K. Miller Manfg. Co., Glendora, Cal. Fruit-elevator. No. 1,028,823; June 4; Sp. p. 1618; Gaz. vol. 179; p. 252.
Horsley, William, Jersey City, N. J. Manufacturing nozzles. No. 1,025,570; May 7; Sp. p. 1044; Gaz. vol. 178; p. 161.
Horsley, William, assignor to The Bigelow Company, New Haven, Conn. Machine for forming lugs for boilers, &c. No. 1,027,480; May 28; Sp. p. 5255; Gaz. vol. 178; p. 922.
Horsman, Thomas, Chicago, Ill., assignor to Chicago Belting Company. Compound belt. No. 1,019,152; Mar. 5; Sp. p. 326; Gaz. vol. 176; p. 51.
Horst, Heinrich. (See Brune and Horst.)
Horst, Richard A., and J. C. Goebel, assignors to Paris Lamp & Manufacturing Company, St. Louis, Mo. Vapor-generator. No. 1,026,318; May 14; Sp. p. 2704; Gaz. vol. 178; p. 452.
Horst, Samuel W., Lemoyne, Pa. Combined weather-strip and sash-lock. No. 1,043,106; Nov. 5; Gaz. vol. 184; p. 20.
Horstmann, Albert, G. O. H., E. H., and S. A., and W. T. Edgar, Bath, England. Timing device. No. 1,027,652; May 28; Sp. p. 5605; Gaz. vol. 178; p. 979.
Horstmann, Albert, G. O. H., E. H., and S. A., and W. T. Edgar, Bath, England. Gas-controller, electric time-switch, and other timing device. No. 1,027,653; May 28; Sp. p. 5609; Gaz. vol. 178; p. 979.
Horstmann, Charles, Oswego, Oreg. Insect-trap. No. 1,042,350; Oct. 22; Gaz. vol. 183; p. 1003.
Horstmann, Ernst H. (See Horstmann and Edgar.)
Horstmann, Gustav O. H. (See Horstmann and Edgar.)
Horstmann, Sidney A. (See Horstmann and Edgar.)
Horstmyer, John E., Schenectady, N. Y. Portable sash-fastener. No. 1,019,006; Feb. 27; Sp. p. 6162; Gaz. vol. 175; p. 1058.
Horting, Levi W., *et al.* (See Banzhof, Charles P., assignor.)
Horton, Albert J., White Plains, N. Y., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Motor-controller. No. 1,019,045; Mar. 5; Sp. p. 71; Gaz. vol. 176; p. 15.
Horton, Albert J., White Plains, N. Y., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Signal. No. 1,020,555; Mar. 19; Sp. p. 3285; Gaz. vol. 176; p. 587.
Horton, Albert J., White Plains, N. Y., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. System of control for electric motors. No. 1,027,846; May 28; Sp. p. 6024; Gaz. vol. 178; p. 1044.
Horton, Alexander, Portsmouth, England. Aerial and other vessel. No. 1,019,646; Mar. 5; Sp. p. 1409; Gaz. vol. 176; p. 216.
Horton, Alexander, Portsmouth, England. Device for use on aerial and other vessels. No. 1,019,647; Mar. 5; Sp. p. 1412; Gaz. vol. 176; p. 217.
Horton, Alexander, Portsmouth, England. Elevator for aerial vessels. No. 1,045,030; Nov. 19; Gaz. vol. 184; p. 752.
Horton, Allen A. (See Vincent and Horton.)
Horton, Allen A., Detroit, Mich. Motor-cycle. No. 1,044,051; Nov. 12; Gaz. vol. 184; p. 383.
Horton, Allen A., assignor to Burroughs Adding Machine Company, Detroit, Mich. Adding-machine. No. 1,016,501; Feb. 6; Sp. p. 605; Gaz. vol. 175; p. 93.
Horton, Bryson D. (See Kling and Horton.)
Horton, Bryson D., Detroit, Mich. Detachably mounting a fuse formed with terminals or contacts of knife-blade type. No. 1,040,331; Oct. 8; Gaz. vol. 183; p. 252.
Horton, Bryson D., assignor to Detroit Fuse & Manufacturing Company, Detroit, Mich. Mechanism for actuating electrical switches. No. 1,022,628; Apr. 9; Sp. p. 1846; Gaz. vol. 177; p. 323.
Horton, Bryson D., assignor to Detroit Fuse & Manufacturing Company, Detroit, Mich. Electrical switch. No. 1,047,414; Dec. 17; Gaz. vol. 185; p. 631.
Horton, Charles M., Elizabeth, N. J., assignor to The Singer Manufacturing Company. Button-sewing machine. No. 1,020,949; Mar. 19; Sp. p. 4122; Gaz. vol. 176; p. 719.
Horton, Henry, Cleveland, Tenn. Corn-holder. No. 1,030,729; June 25; Sp. p. 6026; Gaz. vol. 179; p. 1026.
Horton, Herbert W., Clarkston, Wash. Weeder. No. 1,033,698; July 23; Gaz. vol. 180; p. 1094.
Horton, Jacob N., and E. Carlson, Benson, Nebr. Siding-marker. No. 1,026,866; May 21; Sp. p. 3900; Gaz. vol. 178; p. 673.
Horton, James, Munhall, and T. W. Keen, Swissvale, Pa. Annular metallic packing. No. 1,016,689; Feb. 6; Sp. p. 1038; Gaz. vol. 175; p. 158.
Horton, James, and T. W. Keen, Munhall, Pa. Apparatus for lubricating engines. No. 1,031,715; July 9; Gaz. vol. 180; p. 343.
Horton, James, Munhall, and T. W. Keen, Swissvale, Pa. Lubricator. No. 1,032,361; July 9; Gaz. vol. 180; p. 563.
Horton, James A., Providence, R. I. Safety-razor. No. 1,048,696; Dec. 31; Gaz. vol. 185; p. 1140.

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Horton, Jonathan B., Elkin, N. C. Blackboard. No. 1,013,551; Jan. 2; Sp. p. 1004; Gaz. vol. 174; p. 161.
Horton Manufacturing Company, The. (See Tredwell, Charles A., assignor.)
Horton Manufacturing Company. (See Van Wormer, Arba, assignor.)
Horton, William H. (See Gitzendanner, Charles, assignor.)
Horvath, Geza, and G. E. Green, Wheeling, W. Va. Cap-hemming machine. No. 1,022,552; Apr. 9; Sp. p. 1682; Gaz. vol. 177; p. 298.
Horváth, Guido, assignor to T. Buettner & Co., Chicago, Ill. Fabric-marking machine. No. 1,029,543; June 11; Sp. p. 3186; Gaz. vol. 179; p. 534.
Horváth, Guido, assignor to T. Buettner & Co., Chicago, Ill. Fabric-marking machine. No. 1,029,544; June 11; Sp. p. 3188; Gaz. vol. 179; p. 535.
Horvath, John L., Fernglen, Pa. Brace for broken rails. No. 1,030,888; July 2; Gaz. vol. 180; p. 13.
Horvath, Julius W., Bridgeport, Conn. Spring-bed. No. 1,022,738; Apr. 9; Sp. p. 2126; Gaz. vol. 177; p. 365.
Horváth, Richard von, Vienna, Austria-Hungary, assignor to Hompesch & Company, Berlin, Germany. Apparatus for producing sparks. No. 1,018,763; Feb. 27; Sp. p. 5639; Gaz. vol. 175; p. 975.
Horvitz, Aaron, assignor of one-half to L. Asher, Chicago, Ill. Slipper. No. 1,037,007; Aug. 27; Gaz. vol. 181; p. 986.
Horwath, Rudolph F. (See Szentivanyi, Kalman, assignor.)
Horwitz, Adolphe, Montreal, Quebec, Canada. Gas water-heater. No. 1,044,456; Nov. 12; Gaz. vol. 184; p. 521.
Horwood, Edward J., Broken Hill, New South Wales, Australia. Treating and subsequently separating sulfid ores, &c. No. 1,020,353; Mar. 12; Sp. p. 2840; Gaz. vol. 176; p. 481.
Hoselton, Charles V., Carterville, Mo. Insect-destroyer. No. 1,035,012; Aug. 6; Gaz. vol. 181; p. 204.
Hosemann, John H. B., Lewistown, Mont. Combined harrow and leveler. No. 1,034,619; Aug. 6; Gaz. vol. 181; p. 72.
Hoshizaki, Kingiro. (See Jinbo and Hoshizaki.)
Hosken, Charles L., Wilmette, Ill. Day pillow-case. No. 1,042,439; Oct. 29; Gaz. vol. 183; p. 1063.
Hoskin, George C., Nevada, Iowa. Tabulating mechanism for type-writing machines. No. 1,021,675; Mar. 26; Sp. p. 5647; Gaz. vol. 176; p. 1016.
Hoskins, Clanmar P., New York, N. Y., assignor to W. R. Gulick, Jersey City, N. J., and G. F. Chipperfield, New York, N. Y. Mail-box. No. 1,048,409; Dec. 24; Gaz. vol. 185; p. 1000.
Hoskins, Horace, Eolia, Mo. Broom-handle. No. 1,041,286; Oct. 15; Gaz. vol. 183; p. 613.
Hoskins, Lawrence, Plainville, Ill. Vehicle-wheel. No. 1,032,064; July 9; Gaz. vol. 180; p. 461.
Hoskins Manufacturing Company. (See Marsh and Patrick, assignors.)
Hoskins Manufacturing Company. (See Wingaard, Oscar, assignor.)
Hoskins, Robert L. (See Wilson, John R., assignor.)
Hoskins, William, Chicago, Ill. Uniting by cementation. No. 1,041,287; Oct. 15; Gaz. vol. 183; p. 613.
Hoss, William C., Jackson, Cal. Sickle for mowers. No. 1,022,677; Apr. 9; Sp. p. 1960; Gaz. vol. 177; p. 340.
Hostetler, Monroe E., Harper, Kans. Personal cooler. No. 1,027,607; May 28; Sp. p. 5517; Gaz. vol. 178; p. 965.
Hostetter, Abram B. (See Stevens, Sylvester G., assignor.)
Hostetter, Melvin V., King county, Wash. Knockdown bin or tank. No. 1,024,133; Apr. 23; Sp. p. 5090; Gaz. vol. 177; p. 895.
Hostettler, John A., Hartford, Conn. Clothes-pin. No. 1,040,542; Oct. 8; Gaz. vol. 183; p. 325.
Hotaling, Calvin, Chanute, Kans. Window-shade adjuster. No. 1,020,605; Mar. 19; Sp. p. 3396; Gaz. vol. 176; p. 603.
Hotchkiss, Charles A., assignor to The Ives Manufacturing Corporation, Bridgeport, Conn. Automatic coupling for toy railway-cars. No. 1,029,545; June 11; Sp. p. 3192; Gaz. vol. 179; p. 535.
Hotchkiss, William M., New Rockford, N. D. Sash holder and lock. No. 1,024,780; Apr. 30; Sp. p. 6552; Gaz. vol. 177; p. 1154.
Hoth, Charles, Waukon, Iowa. Delivery appliance. No. 1,018,497; Feb. 27; Sp. p. 5022; Gaz. vol. 175; p. 884.
Hottenroth, Alban, Berlin, Germany, assignor to General Electric Company. Air-valve. No. 1,045,404; Nov. 26; Gaz. vol. 184; p. 910.
Hottmann, Charles W., assignor to R. T. Randall, Philadelphia, Pa. Meat-cutter. No. 1,017,213; Feb. 13; Sp. p. 2195; Gaz. vol. 175; p. 374.
Hotz, Robert S. (See Bruman, Otto F., assignor.)
Houck, John D., Chicago, Ill. Can-opener. No. 1,042,917; Oct. 29; Gaz. vol. 183; p. 1229.
Houck, John D., Chicago, Ill. Key-holding chain. No. 1,042,918; Oct. 29; Gaz. vol. 183; p. 1230.
Houdard, Adolphe, Neufchâtel-en-Bray, France. Bed-pan. No. 1,045,793; Nov. 26; Gaz. vol. 184; p. 1048.
Houdard, Adolphe, Neufchâtel, Bray, France. Bed-pan. No. 1,048,462; Dec. 24; Gaz. vol. 185; p. 1018.
Houff, Maggie C., *et al* (See Lee, Isaac E., assignor.)
Hough, Edward S. (See Bass and Hough.)
Hough, Edward S., San Francisco, Cal. Multiple-hatch construction for vessels. No. 1,033,403; July 23; Gaz. vol. 180; p. 999.
Hough, Herbert D., Providence, R. I. Automobile-whistle. No. 1,045,143; Nov. 26; Gaz. vol. 184; p. 819.
Hough, James M., Woodbine, Iowa. Mail-crane. No. 1,036,246; Aug. 20; Gaz. vol. 181; p. 696.
Hough, John W., Fairbank, Iowa. Fence-post. No. 1,033,322; July 23; Gaz. vol. 180; p. 972.
Houghton, Carl R., Connersville, Ind. Unloading-valve. No. 1,046,593; Dec. 10; Gaz. vol. 185; p. 315.
Houghton, George F. C., New York, N. Y., assignor of one-half to J. Wilding, Fort Wayne, Ind. Holder for assembled sheets. No. 1,025,744; May 7; Sp. p. 1405; Gaz. vol. 178; p. 220.
Houghton, Lewis T., Worcester, Mass. Mechanism for reciprocating planer-beds or similar purposes. No. 1,014,706; Jan. 16; Sp. p. 3594; Gaz. vol. 174; p. 616.
Houghton, Lewis T., Worcester, Mass. Creel-supporting rail for spinning-frames. No. 1,022,193; Apr. 2; Sp. p. 935; Gaz. vol. 177; p. 149.
Houghton, Lewis T., Worcester, Mass. Thread guide and clearer. No. 1,039,285; Sept. 24; Gaz. vol. 182; p. 801.
Houghton, Orley C., assignor to H. E. and J. E. Bullock, Chicago, Ill. Machine for removing leaves and trash from seed-cotton. No. 1,039,402; Sept. 24; Gaz. vol. 182; p. 841.
Houghton, Philip S. (See Mulloy, Patrick J., assignor.)
Houghton, Willard, Seattle, Wash. Combined car stake and bunk. No. 1,022,084; Apr. 2; Sp. p. 702; Gaz. vol. 177; p. 112.
Houlahen, Jeremiah J., Etna, Pa. Curtain-pole fixture. No. 1,019,474; Mar. 5; Sp. p. 1074; Gaz. vol. 176; p. 158.
Houlahen, Jeremiah J., Etna, Pa. Curtain-shade-roller fixture. No. 1,019,475; Mar. 5; Sp. p. 1076; Gaz. vol. 176; p. 159.
Houle, Adelard, New Bedford, Mass. Hand-threading shuttle. No. 1,047,056; Dec. 10; Gaz. vol. 185; p. 474.
Houlehan, John, *et al.* (See Mayo, William C., assignor.)
House, Charles D., Center City, Tex. Saw-cleaner for cotton-gins. No. 1,031,555; July 2; Gaz. vol. 180; p. 246.
House, Delavan W., Chicago, Ill. Wire-puller or come-along. No. 1,036,626; Aug. 27; Gaz. vol. 181; p. 859.
House, Thomas M. (See Dake, John F., assignor.)
House, Thomas M., Richmond, Va. Drain-valve. No. 1,032,352; July 9; Gaz. vol. 180; p. 561.
House, Thomas M., assignor to National Adjustable-Window Corporation, Richmond, Va. Fastening device for weight-cords. No. 1,045,553; Nov. 26; Gaz. vol. 184; p. 965.
Houseberg, John W., Pittsburgh, Pa. Lathe tool-holder. No. 1,017,974; Feb. 20; Sp. p. 3885; Gaz. vol. 175; p. 672.
Householder, Frank, Guthrie, Okla. Dish-washing machine. No. 1,041,085; Oct. 15; Gaz. vol. 183; p. 544.
Householder, Frank, Guthrie, Okla. Wheel-tire. No. 1,044,888; Nov. 19; Gaz. vol. 184; p. 703.
Houseman, Harry A., assignor to Standard Machine Co., Philadelphia, Pa. Knitting-machine. No. 1,025,980; May 14; Sp. p. 1940; Gaz. vol. 178; p. 335.
Houser, Charles B., Jr., St. Charles, Mo. Filter. No. 1,037,145; Aug. 27; Gaz. vol. 181; p. 1032.
Houser, Llewellyn G., Reading, Pa. Combined cradle and crib. No. 1,046,189; Dec. 3; Gaz. vol. 185; p. 134.
Housh, Frank E., Winthrop, Mass. Loose-leaf book. No. 1,025,468; May 7; Sp. p. 810; Gaz. vol. 178; p. 126.
Housh, Frank E., Winthrop, Mass. Loose-leaf book. No. 1,029,369; June 11; Sp. p. 2835; Gaz. vol. 179; p. 476.
Housh, Frank E., Winthrop, Mass. Wallet. No. 1,044,529; Nov. 19; Gaz. vol. 184; p. 578.
Housholder, Frank, Guthrie, Okla. Vehicle-wheel. No. 1,028,727; June 4; Sp. p. 1413; Gaz. vol. 179; p. 220.
Housholder, Jack, Coldwater, Mich., assignor to United Shoe Machinery Company, Paterson, N. J. Shoe-beating machine. No. 1,030,584; June 25; Sp. p. 5611; Gaz. vol. 179; p. 974.
Houston, C. E., *et al.* (See Ellsworth, Dighton B., assignor.)
Houston, Edward D., Worcester, Mass., assignor to The National Onion Salt Company, Denver, Colo. Seasoning and making the same. (Reissue.) No. 13,495; Dec. 10; Gaz. vol. 185; p. 505.
Houston, Fred, assignor to Houston Manufacturing Company, Rockford, Ill. Brush. No. 1,026,676; May 21; Sp. p. 3487; Gaz. vol. 178; p. 609.
Houston Manufacturing Company. (See Houston, Fred, assignor.)
Houston Manufacturing Company. (See Sutton, William S., assignor.)
Housum, Chenoweth. (See Babbitt and Housum.)
Hovagimian, Manuel, Worcester, Mass. Curtain-rod. No. 1,023,650; Apr. 16; Sp. p. 4018; Gaz. vol. 177; p. 705.
Hover, Mary, executrix. (See Garlick, Walter J., assignor.)
Hover, Nicholas A., *et al.* (See Garlick, Walter J., assignor.)
Hovey, Charles F. (See Vogelmann and Hovey.)
Hovey, Edward, Minneapolis, Minn. Land-worker and seeder. No. 1,021,929; Apr. 2; Sp. p. 366; Gaz. vol. 177; p. 61.

Alphabetical list of patentees—Continued.

Hovey, John, St. Louis, Mo., assignor of one-half to I. Fernandez, Durango, Mexico. Metallic railway-tie. No. 1,047,057; Dec. 10; Gaz. vol. 185; p. 474.
Hovey, William S. (See Stebbins and Hovey.)
Hovey, William S., and C. B. Stebbins, Three Rivers, Mich. Gearing. No. 1,047,943; Dec. 24; Gaz. vol. 185; p. 845.
Hovhannessian, Megerdich, Philadelphia, Pa. Experimental boat-model. No. 1,033,699; July 23; Gaz. vol. 180; p. 1094.
Hovis, George F., Clintonville, Pa. Water-discharge attachment for deep-well packers. (Reissue.) No. 13,457; Aug. 13; Gaz. vol. 181; p. 512.
Hovland, Alfred M. (See Edman, John, assignor.)
Hovland, Anton I., St. Paul, Minn. Gearing. No. 1,024,897; Apr. 30; Sp. p. 6795; Gaz. vol. 177; p. 1194.
Hovland, August, St. Paul, Minn. Hydraulic leveling device for threshing-machine shoes. No. 1,035,193; Aug. 13; Gaz. vol. 181; p. 295.
Hovland, August, St. Paul, Minn. Steering mechanism for tractors. No. 1,041,086; Oct. 15; Gaz. vol. 183; p. 544.
Howard, Alfred A., and A. H. Lobsitz, Perry, Okla. Heat-regulator for incubators. No. 1,038,139; Sept. 10; Gaz. vol. 182; p. 355.
Howard, Alfred H. (See Stackpole, Charles F., assignor.)
Howard, Benjamin F., assignor of one-half to J. W. Staub, Indianapolis, Ind. Lubricator. No. 1,026,867; May 21; Sp. p. 3901; Gaz. vol. 178; p. 674.
Howard, Bloomfield H. (See Turner, Ernest J., assignor.)
Howard, Charles, New York, N. Y., assignor to National Lumber Vulcanizing Corporation. Vulcanized wood. No. 1,021,676; Mar. 26; Sp. p. 5649; Gaz. vol. 176; p. 1016.
Howard, Charles O., Columbus, Ohio. Rotary-valve packing. No. 1,032,480; July 16; Gaz. vol. 180; p. 648.
Howard, Clarence H. (See Schaffer, Morse B., assignor.)
Howard, Clarence H., assignor to Locomotive Tender Frame Company, St. Louis, Mo. Cast-steel underframe for cars. No. 1,022,366; Apr. 2; Sp. p. 1277; Gaz. vol. 177; p. 205.
Howard, Clarence H., assignor to Locomotive Tender Frame Company, St. Louis, Mo. Cast-steel underframe for cars. No. 1,035,194; Aug. 13; Gaz. vol. 181; p. 296.
Howard, Clarence H., assignor to Locomotive Tender Frame Company, St. Louis, Mo. Cast-steel underframe for cars. No. 1,038,753; Sept. 17; Gaz. vol. 182; p. 602.
Howard, Clarence H., assignor to Locomotive Tender Frame Company, St. Louis, Mo. Cast-steel underframe for cars. No. 1,039,403; Sept. 24; Gaz. vol. 182; p. 842.
Howard, Clarence H., and H. M. Pflager, assignors to Double Body Bolster Company, St. Louis, Mo. Car-truck. No. 1,016,629; Feb. 6; Sp. p. 926; Gaz. vol. 175; p. 138.
Howard, Clarence H., and H. M. Pflager, assignors to Double Body Bolster Company, St. Louis, Mo. Car-truck. No. 1,016,630; Feb. 6; Sp. p. 928; Gaz. vol. 175; p. 139.
Howard, Clarence H., and H. M. Pflager, assignors to Double Body Bolster Company, St. Louis, Mo. Car-truck frame. No. 1,029,869; June 18; Sp. p. 3934; Gaz. vol. 179; p. 685.
Howard, Clarence H., and H. M. Pflager, assignors to Double Body Bolster Company, St. Louis, Mo. Car-truck. No. 1,039,404; Sept. 24; Gaz. vol. 182; p. 842.
Howard Dustless Duster Co. (See Atwater, John S., assignor.)
Howard Dustless Duster Co. (See Howard and Smith, assignors.)
Howard, Elisha H. (See Esten, William E., assignor.)
Howard, Eugene D., Duarte, Cal. Fruit-cleaning machine. No. 1,025,062; Apr. 30; Sp. p. 7109; Gaz. vol. 177; p. 1249.
Howard, Frank D. (See Usher, Charles H., assignor.)
Howard, Frank P., East Brownfield, Me. Shingling-bracket. No. 1,043,838; Nov. 12; Gaz. vol. 184; p. 310.
Howard, Fred A., South Easton, and J. W. Smith, South Boston, assignors to Howard Dustless Duster Co., Boston, Mass. Duster. No. 1,033,175; July 23; Gaz. vol. 180; p. 922.
Howard, Frederick, Dayton, Ohio. Filing device. No. 1,037,912; Sept. 10; Gaz. vol. 182; p. 280.
Howard, Frederick A., Chester, Pa. Attachment for automobiles. No. 1,016,631; Feb. 6; Sp. p. 929; Gaz. vol. 175; p. 139.
Howard, George D., Ruffin, N. C. Braking device. No. 1,044,180; Nov. 12; Gaz. vol. 184; p. 427.
Howard, George M., Philadelphia, Pa. Negative-pole plate. No. 1,034,797; Aug. 6; Gaz. vol. 181; p. 133.
Howard, Guy C., Everett, Wash. Apparatus for the production of mechanical wood-pulp. No. 1,039,286; Sept. 24; Gaz. vol. 182; p. 802.
Howard, Henry, Boston, Mass. Making sulfuric anhydrid. No. 1,028,880; June 11; Sp. p. 1758; Gaz. vol. 179; p. 308.
Howard, Henry A., Lloydminster, Saskatchewan, Canada. Traction-vehicle. No. 1,024,578; Apr. 30; Sp. p. 6116; Gaz. vol. 177; p. 1082.
Howard, Henry J. M., Washington, D. C. Hose-rack. No. 1,018,764; Feb. 27; Sp. p. 5641; Gaz. vol. 175; p. 975.
Howard, Howland M., Dayton, Ohio. Watermarking device. No. 1,045,144; Nov. 26; Gaz. vol. 184; p. 819.
Howard, James. (See Burgess, Ira W., assignor.)
Howard, James H., Medford, Mass. Burglar-proof safe. No. 1,029,996; June 18; Sp. p. 4197; Gaz. vol. 179; p. 728.
Howard, James L. (See Hoh, Emil C. A., assignor.)
Howard, Jesse C., Columbus, Ohio. Water-motor. No. 1,031,340; July 2; Gaz. vol. 180; p. 173.
Howard, John J., assignor to Jas. H. Matthews & Co., Pittsburgh, Pa. Changeable type-blocks. No. 1,039,131; Sept. 24; Gaz. vol. 182; p. 745.
Howard, John M., Wallingford, Pa. Hoisting device. No. 1,035,442; Aug. 13; Gaz. vol. 181; p. 383.
Howard, Lansing B., San Diego, Cal. Guide for key-holes. No. 1,038,754; Sept. 17; Gaz. vol. 182; p. 603.
Howard, Lansing B., San Diego, Cal. Key-lock. No. 1,047,058; Dec. 10; Gaz. vol. 185; p. 474.
Howard, Laurence B., and G. W. Denief, Lynn, Mass. Valve or cut-off. No. 1,039,059; Sept. 17; Gaz. vol. 182; p. 703.
Howard, Lawrence. (See Burns, Albert E., assignor.)
Howard, Lemuel F., Edgewood Park, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway signaling system. No. 1,035,705; Aug. 13; Gaz. vol. 181; p. 471.
Howard, Lincoln, Ralston, Nebr. Combination coal and wood heating-stove. No. 1,035,589; Aug. 13; Gaz. vol. 181; p. 432.
Howard-O'Keeffe, Isabel, Lake Nominingue, Quebec, Canada. Spool attachment. No. 1,029,193; June 11; Sp. p. 2430; Gaz. vol. 179; p. 414.
Howard, Perkins E., Wichita, Kans. Spring-hinge. No. 1,027,654; May 28; Sp. p. 5612; Gaz. vol. 178; p. 980.
Howard Pulp Process Co. (See Evans, Robert M., assignor.)
Howard, Thomas W., Birmingham, Ala. Fluid-dispensing apparatus. No. 1,040,332; Oct. 8; Gaz. vol. 183; p. 252.
Howard, William H., Wheatland, Okla. Fuel-oil burner. No. 1,019,648; Mar. 5; Sp. p. 1413; Gaz. vol. 176; p. 217.
Howard, William H., Chicago, Ill. Saddle attachment. No. 1,041,087; Oct. 15; Gaz. vol. 183; p. 544.
Howard, William L., Trenton, N. J. Vehicle-wheel. No. 1,031,341; July 2; Gaz. vol. 180; p. 173.
Howarth, Albert, assignor, by mesne assignments, to Star Carburetor and Supply Company, Providence, R. I. Carbureter. No. 1,032,547; July 16; Gaz. vol. 180; p. 670.
Howarth, John H. (See Drew, Arkinstall, Dean, and Howarth.)
Howe, Adrian S., Colton, Cal. Choker logging-hook. No. 1,015,493; Jan. 23; Sp. p. 5317; Gaz. vol. 174; p. 911.
Howe, Alfred F., Nutley, N. J., assignor to The Borden Company, Warren, Ohio. Pipe-cutter. No. 1,040,202; Oct. 1; Gaz. vol. 183; p. 179.
Howe, Andrew F., Granite City, Ill., assignor to Commonwealth Steel Company, St. Louis, Mo. Fillet-making machine. No. 1,027,131; May 21; Sp. p. 4560; Gaz. vol. 178; p. 766.
Howe, Charles A., Chicago, Ill. Foot-support. No. 1,025,571; May 7; Sp. p. 1048; Gaz. vol. 178; p. 162.
Howe, Charles E., Rochester, N. Y., assignor to United Shoe Machinery Company, Paterson, N. J. Cementing-machine. No. 1,030,659; June 25; Sp. p. 5863; Gaz. vol. 179; p. 1003.
Howe, Clarence B., Utica, N. Y. Cleaning-machine. No. 1,045,554; Nov. 26; Gaz. vol. 184; p. 966.
Howe, Clarence B., assignor of one-half to J. H. Goodier, Utica, N. Y. Tire for vehicle-wheels. No. 1,037,829; Sept. 3; Gaz. vol. 182; p. 217.
Howe and Davidson Company. (See Davidson, Frank B., assignor.)
Howe, Edson, Macon, Mo. Corn-harvester. No. 1,031,004; July 2; Gaz. vol. 180; p. 54.
Howe, Fred M. and M. D., Wellsboro, Pa. Hame-fastener. No. 1,039,945; Oct. 1; Gaz. vol. 183; p. 91.
Howe, George S., Richmond, Va. Tire. No. 1,026,038; May 14; Sp. p. 2076; Gaz. vol. 178; p. 355.
Howe, Harvey E., Windber, Pa. Circuit-breaker. No. 1,021,604; Mar. 26; Sp. p. 5535; Gaz. vol. 176; p. 993.
Howe, John P., C. S. Demarest, and W. F. Healey, New York, N. Y. Apparatus for holding and directing the nozzles of fire-hose. No. 1,043,107; Nov. 5; Gaz. vol. 184; p. 20.
Howe, Leon S., New York, N. Y. Plural-strap dispenser. No. 1,038,369; Sept. 10; Gaz. vol. 182; p. 432.
Howe, Leon S., New York, N. Y., assignor to The Stanley Works, New Britain, Conn. Box-strapping. No. 1,043,770; Nov. 5; Gaz. vol. 184; p. 254.
Howe, Leon S., New York, N. Y., assignor to The Stanley Works, New Britain, Conn. Box-strapping. No. 1,043,771; Nov. 5; Gaz. vol. 184; p. 255.
Howe, Maurice D. (See Howe, Fred M. and M. D.)
Howe, William G., and D. J. McDonald, Culebra, Canal Zone. Railway-tie. No. 1,044,389; Nov. 12; Gaz. vol. 184; p. 499.

Alphabetical list of patentees—Continued.

Howe, Winthrop K., Rochester, assignor to General Railway Signal Company, Gates, N. Y. Electric semaphore-signal for railways. No. 1,019,046; Mar. 5; Sp. p. 76; Gaz. vol. 176; p. 15.
Howe, Winthrop K., Rochester, assignor to General Railway Signal Company, Gates, N. Y. Relay-movement. No. 1,019,047; Mar. 5; Sp. p. 77; Gaz. vol. 176; p. 16.
Howe, Winthrop K., Rochester, assignor to General Railway Signal Company, Gates, N. Y. Means for operating semaphores. No. 1,024,853; Apr. 30; Sp. p. 6704; Gaz. vol. 177; p. 1180.
Howell, Albert S., assignor to Bell & Howell Co., Chicago, Ill. Motion-picture machine. No. 1,038,586; Sept. 17; Gaz. vol. 182; p. 543.
Howell, Alexander J., Syracuse, N. Y. Coating tin-foil and the resulting product. No. 1,044,656; Nov. 19; Gaz. vol. 184; p. 623.
Howell, Bert L., Danville, Ill. Bicycle attachment. No. 1,030,844; June 25; Sp. p. 6421; Gaz. vol. 179; p. 1069.
Howell, Edward, *et al.* (See McGill, Charles E., assignor.)
Howell, Fred B., Schenectady, N. Y., assignor to General Electric Company. Electric locomotive. No. 1,014,825; Jan. 16; Sp. p. 3870; Gaz. vol. 174; p. 657.
Howell, Harry, Waverly, N. Y. Work-holder. No. 1,033,758; July 23; Gaz. vol. 180; p. 1112.
Howell, Henry G., Anderson, S. C. Oven. No. 1,019,897; Mar. 12; Sp. p. 1913; Gaz. vol. 176; p. 333.
Howell, J. R. (See Paris and Millward, assignors.)
Howell, James B. (See Whiting and Howell.)
Howell, John W., Newark, N. J., assignor to General Electric Company. Filament-support. No. 1,017,546; Feb. 13; Sp. p. 2891; Gaz. vol. 175; p. 488.
Howell, John W., Newark, N. J., assignor to General Electric Company. Filament connection. No. 1,022,482; Apr. 9; Sp. p. 1537; Gaz. vol. 177; p. 276.
Howell, John W., Newark, N. J., assignor to General Electric Company. Fusing lamp-filaments to leading-in wires. No. 1,022,553; Apr. 9; Sp. p. 1691; Gaz. vol. 177; p. 298.
Howell, John W., Newark, N. J., assignor to General Electric Company. Welding filaments to metal wires. No. 1,022,554; Apr. 9; Sp. p. 1692; Gaz. vol. 177; p. 299.
Howell, John W., Newark, N. J., assignor to General Electric Company. Filament-support. No. 1,024,898; Apr. 30; Sp. p. 6797; Gaz. vol. 177; p. 1195.
Howell, John W., Newark, N. J., assignor to General Electric Company. Filament-support. No. 1,040,333; Oct. 8; Gaz. vol. 183; p. 252.
Howell, Joseph B., Walpole, Mass. Sanitary drinking device. No. 1,021,677; Mar. 26; Sp. p. 5650; Gaz. vol. 176; p. 1016.
Howell, Sylvester S., assignor to The Underfeed Stoker Company of America, Chicago, Ill. Automatic stoker. No. 1,037,913; Sept. 10; Gaz. vol. 182; p. 280.
Howell, William S., Troy, N. Y. Feeding device. No. 1,017,758; Feb. 20; Sp. p. 3327; Gaz. vol. 175; p. 595.
Howes, Andrew T., *et al.* (See Callicott, John, assignor.)
Howes, Claude L., Boston, Mass. Street fire-hydrant. No. 1,037,914; Sept. 10; Gaz. vol. 182; p. 281.
Howes, R. N., *et al.* (See Beall, Albert E., assignor.)
Howieson, John T., New York, N. Y. Calculating-machine. No. 1,030,470; June 25; Sp. p. 5247; Gaz. vol. 179; p. 934.
Howkins, John S. (See East, Dobbs, and Howkins.)
Howland Bag and Paper Company. (See Smith, Charles F., assignor.)
Howland, Benjamin F., Des Moines, Iowa. Conveyer-shaft coupling. No. 1,016,748; Feb. 6; Sp. p. 1148; Gaz. vol. 175; p. 177.
Howland, Ephraim, Pontiac, Mich. Wire gate. No. 1,020,144; Mar. 12; Sp. p. 2417; Gaz. vol. 176; p. 413.
Howland, Ephriam, Pontiac, Mich. Apparatus for loading and stacking hay. No. 1,047,944; Dec. 24; Gaz. vol. 185; p. 846.
Howland, Ephraim, Pontiac, Mich. Derrick for erecting poles. No. 1,049,094; Dec. 31; Gaz. vol. 185; p. 1276.
Howland, Thomas, Mackay, Queensland, Australia. Rubber valve for pumps and the like. No. 1,040,334; Oct. 8; Gaz. vol. 183; p. 253.
Howland, Winfred C., Watertown, Wis. Current-motor. No. 1,037,255; Sept. 3; Gaz. vol. 182; p. 27.
Howlett, Henry M., and A. Laessele, Sandusky, Ohio. Machine for making toe-calks. No. 1,025,270; May 7; Sp. p. 353; Gaz. vol. 178; p. 57.
Howlett, Thomas J., New York, N. Y. Apparatus for brewing tea, coffee, and other beverages. No. 1,024,076; Apr. 23; Sp. p. 4939; Gaz. vol. 177; p. 875.
Howlin, William, Newtown, near Sydney, New South Wales, Australia. Apparatus for automatically opening and closing cocks, valves, switches, and the like. No. 1,026,586; May 14; Sp. p. 3268; Gaz. vol. 178; p. 540.
Howse, John, *et al.* (See Kerns, James, assignor.)
Howser, William E., and A. M. Woltz, Greensboro, N. C. Tire-filler. No. 1,038,891; Sept. 17; Gaz. vol. 182; p. 650.
Howsley, William H., Jr., Adams, Tenn. Spring-wheel. No. 1,029,299; June 11; Sp. p. 2659; Gaz. vol. 179; p. 451.
Howson, Henry, assignor to The J. G. Brill Company, Philadelphia, Pa. Step-guard for passenger-cars. No. 1,032,832; July 16; Gaz. vol. 180; p. 768.
Hoxie, Arthur S., Detroit, Mich. Clothes-line prop. No. 1,046,787; Dec. 10; Gaz. vol. 185; p. 386.
Hoxie, John C. (See Brown and Hoxie.)
Hoya, Ferdinand A., assignor to A. J. Lindemann & Hoverson Co., Milwaukee, Wis. Igniter-torch. No. 1,045,794; Nov. 26; Gaz. vol. 184; p. 1048.
Hoyaux, Emile, McDonald, Pa. Bolt-operator. No. 1,016,502; Feb. 6; Sp. p. 614; Gaz. vol. 175; p. 94.
Hoybook, Henry L., Tyler, Tex. Insulator-support for line-wires. No. 1,047,059; Dec. 10; Gaz. vol. 185; p. 474.
Hoyland, Fred, Jr. (See Fisher and Hoyland.)
Hoyler, Fritz, A. L. Gardner, and H. Foersterling, Perth Amboy, N. J., assignors to The Roessler & Hasslacher Chemical Co., New York, N. Y. Treating mother-liquors formed in making alkali perborates. No. 1,046,594; Dec. 10; Gaz. vol. 185; p. 316.
Hoyt, Adrian H., Penacook, N. H. Electric shunt connection. No. 1,046,465; Dec. 10; Gaz. vol. 185; p. 271.
Hoyt, Daniel, Newark, N. J. Window. No. 1,045,555; Nov. 26; Gaz. vol. 184; p. 966.
Hoyt, Ezra S., Los Angeles, Cal. Oil-gas generator. No. 1,017,214; Feb. 13; Sp. p. 2200; Gaz. vol. 175; p. 374.
Hoyt, Frederick J., Redlands, Cal. Amalgamator. No. 1,042,229; Oct. 22; Gaz. vol. 183; p. 964.
Hoyt, Guy L., New York, assignor to Robert Gair Company, Brooklyn, N. Y. Feed-regulator for fine material. No. 1,014,003; Jan. 9; Sp. p. 2046; Gaz. vol. 174; p. 345.
Hoyt, Homer J., assignor to Morgan & Wright, Detroit, Mich. Winding or wrapping machine. No. 1,020,097; Mar. 12; Sp. p. 2326; Gaz. vol. 176; p. 398.
Hoyt, Matthew L., assignor to D. H. Burrell & Co., Little Falls, N. Y. Bearing. No. 1,048,166; Dec. 24; Gaz. vol. 185; p. 920.
Hoyt Metal Company. (See Tebbetts, Lewis B., assignor.)
Hoyt, Richard H., Buffalo, N. Y. Washing-machine. No. 1,046,788; Dec. 10; Gaz. vol. 185; p. 386.
Hoyt, William E., New York, N. Y. Sad-iron. No. 1,015,185; Jan. 16; Sp. p. 4615; Gaz. vol. 174; p. 779.
Hubbard, Arthur O., Minneapolis, Minn. Wheelbarrow. No. 1,015,024; Jan. 16; Sp. p. 4311; Gaz. vol. 174; p. 725.
Hubbard, Arthur O., Minneapolis, Minn. Silo. No. 1,030,404; June 25; Sp. p. 5109; Gaz. vol. 179; p. 911.
Hubbard, Arthur O., Minneapolis, Minn. Silo. No. 1,030,405; June 25; Sp. p. 5110; Gaz. vol. 179; p. 911.
Hubbard, Arthur O., Minneapolis, Minn. Silo. No. 1,030,406; June 25; Sp. p. 5111; Gaz. vol. 179; p. 911.
Hubbard, Arthur O., Minneapolis, Minn. Folding crate. No. 1,046,297; Dec. 3; Gaz. vol. 185; p. 174.
Hubbard, Edgar O., Leda, Va. Hammer. No. 1,045,145; Nov. 26; Gaz. vol. 184; p. 820.
Hubbard, Elmer, Gilboa, N. Y. Combined traction stone-crusher and road-roller. No. 1,042,230; Oct. 22; Gaz. vol. 183; p. 965.
Hubbard, Frank W. (See Wright and Hubbard.)
Hubbard, Fred W., assignor to The Kilbourne and Jacobs Manufacturing Company, Columbus, Ohio. Dump-car. No. 1,029,194; June 11; Sp. p. 2431; Gaz. vol. 179; p. 414.
Hubbard, George M., assignor to The W. & E. T. Fitch Co., New Haven, Conn. Buckle. No. 1,020,760; Mar. 19; Sp. p. 3740; Gaz. vol. 176; p. 656.
Hubbard, John C., Worcester, Mass. Electrostatic voltmeter. No. 1,042,440; Oct. 29; Gaz. vol. 183; p. 1063.
Hubbard, John F. (See Ponnay, Richard, assignor.)
Hubbard, John J. (See Carson and Hubbard.)
Hubbard, Lessie H., Clinton, N. C. Seat-fastener. No. 1,038,892; Sept. 17; Gaz. vol. 182; p. 650.
Hubbard, Stephen H. (See Brock and Hubbard.)
Hubbard, William E. (See Ough and Hubbard.)
Hubbart, Edwin A. (See Appleby and Hubbart.)
Hubbell, Harvey, Bridgeport, Conn. Separable attachment-plug. No. 1,021,101; Mar. 26; Sp. p. 4439; Gaz. vol. 176; p. 822.
Hubbell, Harvey, Bridgeport, Conn. Lock-guard for incandescent lamps. No. 1,022,739; Apr. 9; Sp. p. 2128; Gaz. vol. 177; p. 365.
Hubbell, Harvey, Bridgeport, Conn. Guard for incandescent lamps. No. 1,022,740; Apr. 9; Sp. p. 2130; Gaz. vol. 177; p. 365.
Hubbell, Harvey, Bridgeport, Conn. Key-socket. No. 1,048,167; Dec. 24; Gaz. vol. 185; p. 920.
Hubbell, Harvey, Bridgeport, Conn. Key-socket. No. 1,048,168; Dec. 24; Gaz. vol. 185; p. 920.
Hubbell, Harvey, Bridgeport, Conn. Operating attachment for pull-sockets. No. 1,048,169; Dec. 24; Gaz. vol. 185; p. 921.
Hubbell, Harvey, assignor to Harvey Hubbell, Incorporated, Bridgeport, Conn. Electric-lamp socket. (Reissue.) No. 13,353; Jan. 9; Sp. p. 3413; Gaz. vol. 174; p. 564.
Hubbell, Henry S., Ashburnham, Mass. Chuck. No. 1,038,755; Sept. 17; Gaz. vol. 182; p. 603.

Alphabetical list of patentees—Continued.

Hubbell, Lindley D., assignor to The Pope Manufacturing Company, Hartford, Conn. Flexible connection for shafts and the like. No. 1,034,453; Aug. 6; Gaz. vol. 181; p. 18.
Huber, Charles, *et al.* (See McGill, Charles E., assignor.)
Huber, Clarence E., assignor of one-third to J. Huber and one-third to H. M. Huber, Mansfield, Ohio. Sleigh attachment for vehicles. No. 1,021,719; Mar. 26; Sp. p. 5736; Gaz. vol. 176; p. 1030.
Huber, Frederick K., Hamlin, Tex. Stalk-cutter attachment for sulky-plows. No. 1,041,288; Oct. 15; Gaz. vol. 183; p. 614.
Huber, Harvey M., *et al.* (See Huber, Clarence E., assignor.)
Huber-Hodgman Printing Press Co. (See Hodgman, Willis K., assignor.)
Huber, Jacob, *et al.* (See Huber, Clarence E., assignor.)
Huber, Jacob, Blakesburg, Iowa. Cement fence-post. No. 1,016,151; Jan. 30; Sp. p. 6703; Gaz. vol. 174; p. 1165.
Huber, John F. (See Gilloon and Huber.)
Huber, John F., assignor to C. W. Zimmer, Buffalo, N. Y. Account-file. No. 1,015,444; Jan. 23; Sp. p. 5201; Gaz. vol. 174; p. 894.
Huber, Joseph, Elma, Iowa. Metallic fence-post. No. 1,021,409; Mar. 26; Sp. p. 5131; Gaz. vol. 176; p. 928.
Huber, Lewis W., Brookville, Pa. Nut-lock. No. 1,015,316; Jan. 23; Sp. p. 4912; Gaz. vol. 174; p. 850.
Huber, William E. (See Cleveland and Huber.)
Hubert, Conrad. (See Coleman, Clyde J., assignor.)
Hubert, Conrad. (See Volkmar, Bernhard, assignor.)
Hubert, Conrad, New York, N. Y. Portable lighter. No. 1,022,140; Apr. 2; Sp. p. 824; Gaz. vol. 177; p. 131.
Hubert, Conrad, New York, N. Y. Portable electric light. No. 1,035,879; Aug. 20; Gaz. vol. 181; p. 568.
Hubert, Conrad, New York, N. Y. Gas-lighter. No. 1,041,795; Oct. 22; Gaz. vol. 183; p. 819.
Hubert, Conrad, New York, N. Y. Portable electric light. No. 1,047,525; Dec. 17; Gaz. vol. 185; p. 671.
Hubert, Henry, and E. Fry, New York, N. Y. Beer-pipe cleaner. No. 1,039,405; Sept. 24; Gaz. vol. 182; p. 842.
Hubert, J. M. (See Mainer, William L., assignor.)
Hubert, James D., Hillman, Mich. Brickmaking-machine. No. 1,048,537; Dec. 31; Gaz. vol. 185; p. 1083.
Hubert, Lily E. G., executrix. (See Hubert, Philip G.)
Hubert, Linard A., Troyes, France. Elastic wheel. No. 1,039,538; Sept. 24; Gaz. vol. 182; p. 889.
Hubert, Linard A., Troyes, France. Gang-plow. No. 1,044,657; Nov. 19; Gaz. vol. 184; p. 623.
Hubert, Philip G., deceased, Los Angeles, Cal.; L. E. G. Hubert, executrix, assignor to L. E. G. Hubert. Instantaneous water-heater. No. 1,038,140; Sept. 10; Gaz. vol. 182; p. 355.
Hubert, Philip G., deceased, Los Angeles, Cal.; L. E. G. Hubert, executrix, assignor to L. E. G. Hubert, individually. Water-heater. No. 1,049,325; Dec. 31; Gaz. vol. 185; p. 1355.
Hubert, Theodore, New York, N. Y., assignor, by mesne assignments, to Splitdorf Electrical Co., Newark, N. J. Electric ignition device. No. 1,045,405; Nov. 26; Gaz. vol. 184; p. 910.
Hubert, Theodore, New York, N. Y., assignor, by mesne assignments, to Splitdorf Electrical Co., Newark, N. J. Magneto. No. 1,045,406; Nov. 26; Gaz. vol. 184; p. 910.
Hubertusmühle mit beschränkter Haftung. (See Marmetschke, Ernst, assignor.)
Huberty, Lewis, Canton, Ohio. Churn-dasher. No. 1,040,682; Oct. 8; Gaz. vol. 183; p. 377.
Hubner, Robert, Elizabeth, N. J. Briqueting flue-dust and the article of manufacture produced thereby. No. 1,038,370; Sept. 10; Gaz. vol. 182; p. 433.
Hübschman, Jerry, New York, N. Y. Aeroplane. No. 1,025,063; Apr. 30; Sp. p. 7111; Gaz. vol. 177; p. 1250.
Huck, Alfred W. (See Huck, Waldo and A. W.)
Huck, Waldo, St. Louis, and A. W. Huck, Kansas City, Mo. Lasting-pincers. No. 1,047,229; Dec. 17; Gaz. vol. 185; p. 566.
Huck, Waldo, St. Louis, and A. W. Huck, Kansas City, Mo. Lasting-pincers. No. 1,047,230; Dec. 17; Gaz. vol. 185; p. 566.
Huckaby, Grabel E. U., Houston, Tex. Roll for cotton-gins and machines for burring wool. No. 1,039,946; Oct. 1; Gaz. vol. 183; p. 91.
Huddleston, William C., Butler, Ky. Stamp-canceling machine. No. 1,046,190; Dec. 3; Gaz. vol. 185; p. 134.
Hudler, James E., Crumpler, N. C. Car-coupling device. No. 1,045,556; Nov. 26; Gaz. vol. 184; p. 966.
Hudlow, John W., Minneapolis, and J. M. Chapman, Garden City, Minn. Cream-separator. No. 1,013,164; Jan. 2; Sp. p. 154; Gaz. vol. 174; p. 26.
Hudson, Alexander S., assignor of one-half to T. S. Crosbie, Sourlake, Tex. Spring-wheel. No. 1,039,287; Sept. 24; Gaz. vol. 182; p. 802.
Hudson, Benjamin F. (See Smith and Hudson.)
Hudson, Charles C., *et al.* (See Smith, Henry A., assignor.)
Hudson, David W., Green Bay, Wis. Deep-well-pumping apparatus. No. 1,041,796; Oct. 22; Gaz. vol. 183; p. 819.
Hudson, Edmund, Templeton, Mass. Liquid-hydrocarbon engine. No. 1,036,848; Aug. 27; Gaz. vol. 181; p. 933.
Hudson, Frank R., Windsor, Mo. Acetylene-gas generator. No. 1,021,462; Mar. 26; Sp. p. 5334; Gaz. vol. 176; p. 946.
Hudson, Fred A., assignor to Clarinda Lawn Mower Company, Clarinda, Iowa. Attachment for lawn-mowers. No. 1,025,271; May 7; Sp. p. 354; Gaz. vol. 178; p. 58.
Hudson, George H., assignor of one-half to J. McTernan, New York, N. Y. Grease-cup plug. No. 1,022,317; Apr. 2; Sp. p. 1174; Gaz. vol. 177; p. 188.
Hudson, Harold C., administrator. (See Keith, Thomas K.)
Hudson, Harrison L., assignor of one-half to W. H. Luthardt, Chicago, Ill. Gear. No. 1,043,012; Oct. 29; Gaz. vol. 183; p. 1262.
Hudson, Henry B., Fargo, N. D. Hammer attachment. No. 1,026,915; May 21; Sp. p. 4029; Gaz. vol. 178; p. 691.
Hudson, Henry N. (See Smith, Eugene W., assignor.)
Hudson, Homer. (See Morris and Hudson.)
Hudson, Jerry M., Piqua, Ohio. Molder's bench. No. 1,020,098; Mar. 12; Sp. p. 2329; Gaz. vol. 176; p. 398.
Hudson, Laura E., Lancaster, S. C., assignor to North Pole Ice Cream Freezer Company, Charlotte, N. C. Ice-cream freezer. No. 1,026,510; May 14; Sp. p. 3128; Gaz. vol. 178; p. 516.
Hudson, Mahalah T., Enid, Okla. Combined cake-mixer and egg-beater. No. 1,026,355; May 14; Sp. p. 2802; Gaz. vol. 178; p. 465.
Hudson Motor Car Company. (See Jackson, Roscoe B., assignor.)
Hudson Motor Car Company. (See Taylor and Coffin, assignors.)
Hudson, Thomas E., Norfolk, Va. Fertilizer-distributer. No. 1,035,195; Aug. 13; Gaz. vol. 181; p. 296.
Hudson, Tuble J., Wyatt, La. Shaft-coupling. No. 1,047,811; Dec. 17; Gaz. vol. 185; p. 772.
Hudson, Wayne, Hemple, Mo. Rubbing-post. No. 1,046,595; Dec. 10; Gaz. vol. 185; p. 316.
Hudson, Wilbur G., Newark, N. J., assignor to Guarantee Construction Company, New York, N. Y. Conveyer-elbow. No. 1,044,181; Nov. 12; Gaz. vol. 184; p. 427.
Huebner-Bleistein Patents Company. (See Huebner, William C., assignor.)
Huebner, William C., assignor of one-half to G. Bleistein, Buffalo, N. Y. Photographic-printing machine. No. 1,015,681; Jan. 23; Sp. p. 5705; Gaz. vol. 174; p. 976.
Huebner, William C., assignor to Huebner-Bleistein Patents Company, Buffalo, N. Y. Photographic-printing apparatus. No. 1,033,404; July 23; Gaz. vol. 180; p. 999.
Huebner, William C., assignor to Huebner-Bleistein Patents Company, Buffalo, N. Y. Photographic-printing machine. No. 1,043,430; Nov. 5; Gaz. vol. 184; p. 137.
Hueffner, Charles. (See Walpuski and Hueffner.)
Huelsdonk, William A. (See Roberson, Erastus E., assignor.)
Huenefeld Company, The. (See Huenefeld, Walter E., assignor.)
Huenefeld, Walter E., Cincinnati, Ohio. Hand-reel for clothes-lines. No. 1,039,288; Sept. 24; Gaz. vol. 182; p. 802.
Huenefeld, Walter E., Cincinnati, Ohio. Oven-door. No. 1,039,289; Sept. 24; Gaz. vol. 182; p. 803.
Huenefeld, Walter E., Cincinnati, Ohio. Portable oven. No. 1,039,290; Sept. 24; Gaz. vol. 182; p. 803.
Huenefeld, Walter E., assignor to The Huenefeld Company, Cincinnati, Ohio. Oven-door. No. 1,013,390; Jan. 2; Sp. p. 668; Gaz. vol. 174; p. 105.
Huenefeld, Walter E., assignor to The Huenefeld Company, Cincinnati, Ohio. Knockdown oven. No. 1,016,565; Feb. 6; Sp. p. 776; Gaz. vol. 175; p. 115.
Huenefeld, Walter E., assignor to The Huenefeld Company, Cincinnati, Ohio. Oven-door. No. 1,016,566; Feb. 6; Sp. p. 778; Gaz. vol. 175; p. 115.
Huenefeld, Walter E., assignor to The E. H. Huenefeld Co., Cincinnati, Ohio. Portable knockdown oven. No. 1,037,770; Sept. 3; Gaz. vol. 182; p. 198.
Huestis, F. W. (See Lawton, Charles F., assignor.)
Huether, John R., and H. M. Simmons, Quincy, Wash. Pump. No. 1,048,410; Dec. 24; Gaz. vol. 185; p. 1000.
Huettel, George, Wofford, Ky. Screen for coal-cars. No. 1,036,849; Aug. 27; Gaz. vol. 181; p. 933.
Huff, Frank, Napa, Cal. Electric damper control. No. 1,020,606; Mar. 19; Sp. p. 3398; Gaz. vol. 176; p. 603.
Huff, George T., Baltimore, Md. Tellurian. No. 1,028,355; June 4; Sp. p. 642; Gaz. vol. 179; p. 96.
Huff, Hiram C., Claremont, Va. Draft evener. No. 1,048,170; Dec. [illegible] Gaz. vol. 185; p. 921.
Huff, Russell, [illegible]er-lock; Gaz. mesne assignments, to Packard Motor Car Co., Detroit, Mich. Universal joint. No. 1,015,267; Jan. 16; Sp. p. 4793; Gaz. vol. 174; p. 807.
Huff, Russell, assignor, by mesne assignments, to Packard Motor Car Company, Detroit, Mich. Motor-vehicle. No. 1,019,254; Mar. 5; Sp. p. 544; Gaz. vol. 176; p. 86.
Huff, Russell, assignor, by mesne assignments, to Packard Motor Car Company, Detroit, Mich. Combined tank-bracket and step for motor-vehicles. No. 1,023,848; Apr. 23; Sp. p. 4439; Gaz. vol. 177; p. 797.

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Huff, Russell, assignor to Packard Motor Car Company, Detroit, Mich. Lubricating system for motors. No. 1,024,727; Apr. 30; Sp. p. 6437; Gaz. vol. 177; p. 1135.
Huff, Russell, assignor, by mesne assignments, to Packard Motor Car Company, Detroit, Mich. Motor-vehicle. No. 1,025,187; May 7; Sp. p. 171; Gaz. vol. 178; p. 29.
Huff, Russell, assignor, by mesne assignments, to Packard Motor Car Company, Detroit, Mich. Water-cooling system for hydrocarbon-engines. No. 1,028,115; June 4; Sp. p. 43; Gaz. vol. 179; p. 11.
Huff, Russell, assignor to Packard Motor Car Company, Detroit, Mich. Motor-vehicle. No. 1,029,063; June 11; Sp. p. 2157; Gaz. vol. 179; p. 372.
Huff, Russell, assignor, by mesne assignments, to Packard Motor Car Company, Detroit, Mich. Controlling mechanism for motor-vehicles. No. 1,029,685; June 18; Sp. p. 3503; Gaz. vol. 179; p. 621.
Huff, Russell, assignor, by mesne assignments, to Packard Motor Car Company, Detroit, Mich. Transmission-gearing for motor-vehicles. No. 1,033,102; July 23; Gaz. vol. 180; p. 896.
Huff, Russell, assignor, by mesne assignments, to Packard Motor Car Company, Detroit, Mich. Transmission-gearing for motor-vehicles. No. 1,033,176; July 23; Gaz. vol. 180; p. 922.
Huff, Russell, assignor to Packard Motor Car Company, Detroit, Mich. Motor-vehicle. No. 1,043,702; Nov. 5; Gaz. vol. 184; p. 231.
Huff, Samuel D., Wichita, Kans. Automatic stock and poultry feeder. No. 1,020,505; Mar. 19; Sp. p. 3169; Gaz. vol. 176; p. 569.
Huff, William J., Toronto, Ontario, Canada. Releasing-hook for life-boats and the like. No. 1,027,481; May 28; Sp. p. 5257; Gaz. vol. 178; p. 922.
Huffaker, Francis W. (See Hathaway and Huffaker.)
Huffman, Howard H. (See Sublett, Alvin H., assignor.)
Huffman, John O., and E. J. Lauffer, assignors to The White Sewing Machine Company, Cleveland, Ohio. Throw-out device for reciprocating-shuttle sewing-machines. No. 1,020,099; Mar. 12; Sp. p. 2332; Gaz. vol. 176; p. 398.
Huffman, John O., and E. J. Lauffer, assignors to The White Sewing Machine Company, Cleveland, Ohio. Feeding mechanism for sewing-machines. No. 1,025,139; May 7; Sp. p. 60; Gaz. vol. 178; p. 11.
Huffman, Louis, Toronto, Ontario, Canada. Impression apparatus. No. 1,018,617; Feb. 27; Sp. p. 5323; Gaz. vol. 175; p. 924.
Huffman, William H., Harrisburg, Pa. Curtain-hanger. No. 1,025,064; Apr. 30; Sp. p. 7112; Gaz. vol. 177; p. 1250.
Huffmaster, Charles A., San Leandro, Cal. Hat-pin protector. No. 1,024,337; Apr. 23; Sp. p. 5505; Gaz. vol. 177; p. 965.
Huffmaster, Charles A., San Leandro, Cal. Insect-guard for trees. No. 1,043,431; Nov. 5; Gaz. vol. 184; p. 138.
Hug, Samuel, Highland, Ill. Bundle-loading device. No. 1,024,854; Apr. 30; Sp. p. 6706; Gaz. vol. 177; p. 1180.
Huggins, Frank L., assignor of one-half to J. P. Moore, Jr., Wilmington, N. C. Recovering resin from waste products. No. 1,022,194; Apr. 2; Sp. p. 937; Gaz. vol. 177; p. 149.
Huggins, Hillary L., Damascus, Va. Bolt and nut lock. No. 1,035,089; Aug. 6; Gaz. vol. 181; p. 229.
Huggins, James A., Red Springs, N. C. Subsoil-plow attachment. No. 1,033,245; July 23; Gaz. vol. 180; p. 946.
Huggins, James A., Red Springs, N. C. Plow. No. 1,033,323; July 23; Gaz. vol. 180; p. 972.
Huggins, Merion J. (See Osland and Huggins.)
Huggler, John, Indianapolis, Ind. Milking-machine. No. 1,034,454; Aug. 6; Gaz. vol. 181; p. 18.
Hugh Stevenson & Son. (See Gütermann, Alexander, assignor.)
Hughes, Albert M., assignor of one-half to W. W. Barrett, Sedalia, Mo. Fruit-picker. No. 1,040,947; Oct. 8; Gaz. vol. 183; p. 462.
Hughes, Benjamin A., Colorado Springs, Colo. Machine for sizing and separating granular material. No. 1,039,132; Sept. 24; Gaz. vol. 182; p. 745.
Hughes, Davydd C., assignor to Rogers Addresser Company, Chicago, Ill. Type-plate for addressing-machines. No. 1,036,118; Aug. 20; Gaz. vol. 181; p. 650.
Hughes, Davydd C., assignor to Rogers Addresser Company, Chicago, Ill. Addressing-machine. No. 1,043,108; Nov. 5; Gaz. vol. 184; p. 21.
Hughes, Davydd C., assignor to Rogers Addresser Company, Chicago, Ill. Drawbar S for addressing-machines. No. 1,046,789; Dec. 10; Gaz. vol. 185; p. 386.
Hughes, Evan E., Meriden, Conn. Floor-surfacing machine. No. 1,023,251; Apr. 16; Sp. p. 3224; Gaz. vol. 177; p. 577.
Hughes, Frank J., assignor to The Practical Display Rack Company, Mansfield, Ohio. Garment-display rack. No. 1,031,268; July 2; Gaz. vol. 180; p. 148.
Hughes, Harry H., St. Louis, Mo. Producing zinc oxid. No. 1,014,062; Jan. 9; Sp. p. 2177; Gaz. vol. 174; p. 364.
Hughes, Isaac L., Youngstown, Ohio. Apparatus for straightening metal bars. No. 1,045,031; Nov. 19; Gaz. vol. 184; p. 753.
Hughes, Jacob F. (See McKay and Hughes.)
Hughes, Joseph, New York, N. Y. Garment-closer. No. 1,029,930; June 18; Sp. p. 4072; Gaz. vol. 179; p. 707.
Hughes, Joseph, assignor of one-half to Butte Engineering & Electric Co., San Francisco, Cal. Food-carrier. No. 1,037,771; Sept. 3; Gaz. vol. 182; p. 198.
Hughes, Louis S., Chicago, Ill., assignor to Picher Lead Company, Joplin, Mo. Production of lead compounds. No. 1,033,405; July 23; Gaz. vol. 180; p. 999.
Hughes, Marion, Bartlesville, Okla. Door-catch. No. 1,024,781; Apr. 30; Sp. p. 6553; Gaz. vol. 177; p. 1154.
Hughes, Michael E., Manteno, Ill. Box for seed-planters. No. 1,039,060; Sept. 17; Gaz. vol. 182; p. 703.
Hughes, Rees, Wilson's Downfall, New South Wales, Australia. Means for separating minerals from alluvial wash. No. 1,048,171; Dec. 24; Gaz. vol. 185; p. 921.
Hughes, Robert, Mount Vernon, N. Y. Lathe attachment. No. 1,028,728; June 4; Sp. p. 1415; Gaz. vol. 179; p. 220.
Hughes, Samuel, Lindsay, Ontario, Canada. Power transmission. No. 1,036,119; Aug. 20; Gaz. vol. 181; p. 650.
Hughes, Samuel E., Alexandria, Ind. Road scraper and grader. No. 1,019,153; Mar. 5; Sp. p. 327; Gaz. vol. 176; p. 51.
Hughes, Schuyler G., Mineral, W. Va. Adjustable hold-back. No. 1,038,141; Sept. 10; Gaz. vol. 182; p. 355.
Hughes, Thomas H., West Point, Tenn. Trap-spring. No. 1,048,075; Dec. 24; Gaz. vol. 185; p. 887.
Hughes, William B., Newark, N. J. Circuit-controlling device. No. 1,016,268; Feb. 6; Sp. p. 52; Gaz. vol. 175; p. 11.
Hughes, William B., Newark, N. J. Heat-indicating device. No. 1,034,798; Aug. 6; Gaz. vol. 181; p. 133.
Hughes, William B., assignor to The Wellman-Seaver-Morgan Company, Cleveland, Ohio. Gas-producer. No. 1,022,678; Apr. 9; Sp. p. 1961; Gaz. vol. 177; p. 340.
Hughes, William E., Mineral Ridge, Ohio. Gun-cleaning device. No. 1,022,945; Apr. 9; Sp. p. 2559; Gaz. vol. 177; p. 434.
Hughes, William E., Glenwood Springs, Colo. Centrifugal pump. No. 1,040,543; Oct. 8; Gaz. vol. 183; p. 325.
Hughes, William H., Trenton, N. J. Combined drum and cymbal beater. No. 1,042,919; Oct. 29; Gaz. vol. 183; p. 1230.
Hughs, William D., Atlanta, Ga. Gearing for motor-vehicles. No. 1,025,188; May 7; Sp. p. 173; Gaz. vol. 178; p. 29.
Hughson, George M., *et al.* (See Willett, Robert A., assignor.)
Hugo, Theodor, Berlin, Germany. Machine for making paper bags. No. 1,021,778; Apr. 2; Sp. p. 46; Gaz. vol. 177; p. 11.
Hugon, Henry G., Calais, France. Resilient antiskidding wheel. No. 1,025,400; May 7; Sp. p. 653; Gaz. vol. 178; p. 102.
Huguenin, Albert, Zürich, Switzerland. Rotary compressor. No. 1,036,627; Aug. 27; Gaz. vol. 181; p. 859.
Huguenin, Albert, Zürich, Switzerland. Device for governing the speed of water-turbines. No. 1,041,289; Oct. 15; Gaz. vol. 183; p. 614.
Hugy, Charles W., San Jose, Cal. Device for fuel-saving stoves. No. 1,034,799; Aug. 6; Gaz. vol. 181; p. 134.
Hugyik, John, Nokomis, Ill. Step. No. 1,027,338; May 21; Sp. p. 4964; Gaz. vol. 178; p. 835.
Huhn, Hermann. (See Williams and Huhn.)
Huish, Orson P., Payson, Utah. Rake. No. 1,023,849; Apr. 23; Sp. p. 4440; Gaz. vol. 177; p. 797.
Hulbert, Ansel C., Santa Rosa, Cal. Electrically-generated steam-vulcanizer. No. 1,047,060; Dec. 10; Gaz. vol. 185; p. 474.
Hulbert, John L., Poughkeepsie, N. Y., assignor to The De Laval Separator Company. Mechanically milking. No. 1,043,013; Oct. 29; Gaz. vol. 183; p. 1262.
Huling, Greene, Hampton, Conn. Locking device for dump-carts. No. 1,024,338; Apr. 23; Sp. p. 5506; Gaz. vol. 177; p. 965.
Hulit, John A., assignor to The Hulit Transmitter Company, Topeka, Kans. Telegraph sending-machine. No. 1,017,054; Feb. 13; Sp. p. 1829; Gaz. vol. 175; p. 318.
Hulit Transmitter Company, The. (See Hulit, John A., assignor.)
Hull, Alfred A., Knoxville, Tenn. Flue-cleaner. No. 1,018,826; Feb. 27; Sp. p. 5772; Gaz. vol. 175; p. 997.
Hull, Charles, Bloomville, Ohio. Reversible two-cycle engine. No. 1,038,371; Sept. 10; Gaz. vol. 182; p. 433.
Hull, Foster J., assignor to The Thomas W. Pangborn Company, New York, N. Y. Sight-feed lubricator. No. 1,022,946; Apr. 9; Sp. p. 2560; Gaz. vol. 177; p. 434.
Hull, John W., Sr., Zion City, Ill. Commode. No. 1,019,154; Mar. 5; Sp. p. 328; Gaz. vol. 176; p. 51.
Hull, Joseph V., assignor, by mesne assignments, to Sure Seal Company, Brooklyn, N. Y. Closure for bottles, jars, and other receptacles. No. 1,013,391; Jan. 2; Sp. p. 669; Gaz. vol. 174; p. 106.
Hull, Joseph V., assignor, by mesne assignments, to Sure Seal Company, Brooklyn, N. Y. Closure for bottles, jars, and other receptacles. No. 1,013,392; Jan. 2; Sp. p. 670; Gaz. vol. 174; p. 106.

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Hull, Joseph V., assignor, by mesne assignments, to Sure Seal Company, Brooklyn, N. Y. Closure for bottles, jars, and other receptacles. No. 1,013,394; Jan. 2; Sp. p. 677; Gaz. vol. 174; p. 107.
Hull Manufacturing Company. (See Watres, Lewis S., assignor.)
Hull, Oakley E., Cleveland, Ohio, assignor to The Monarch Typewriter Company, Syracuse, N Y. Type-writing machine. No. 1,025,627; May 7; Sp. p. 1172; Gaz. vol. 178; p. 180.
Hull, Robert C., Philadelphia, Pa. System of electrical distribution. No. 1,014,395; Jan. 9; Sp. p. 2908; Gaz. vol. 174; p. 482.
Hull, Samuel P., Dobbs Ferry, N. Y. Rail-bond. No. 1,031,448; July 2; Gaz. vol. 180; p. 209.
Hull, Samuel P., Dobbs Ferry, N. Y. Rail-bond. No. 1,031,449; July 2; Gaz. vol. 180; p. 209.
Hull, Samuel P., Yonkers, N. Y. Circuit-controller. No. 1,047,415; Dec. 17; Gaz. vol. 185; p. 631.
Hull, William N., Los Angeles, Cal. Educational device. No. 1,043,596; Nov. 5; Gaz. vol. 184; p. 196.
Hull, Wolcott A., New York, N. Y. Faucet and support therefor. No. 1,030,306; June 25; Sp. p. 4897; Gaz. vol. 179; p. 874.
Hulme, Robert, Memphis, Tenn. Can opener and stopper. No. 1,029,686; June 18; Sp. p. 3506; Gaz. vol. 179; p. 621.
Hulse, Edwin M., Columbus, Ohio. Upholstering spring-work. No. 1,037,256; Sept. 3; Gaz. vol. 182; p. 27.
Hulse, George E. (See Dixon and Hulse.)
Hulsizer, Clyde L., Des Moines, Iowa. Device for winding artificial vines. No. 1,017,626; Feb. 13; Sp. p. 3038; Gaz. vol. 175; p. 513.
Hultquist, Charles A., Los Angeles, Cal. Rock-drill. No. 1,040,544; Oct. 8; Gaz. vol. 183; p. 325.
Humann, Alex. (See Teisler, Emil, assignor.)
Humason, Granville A., Shreveport, La. Lock-nut. No. 1,033,759; July 23; Gaz. vol. 180; p. 1113.
Humason, Granville A., assignor to Humason Rail Joint Company, Shreveport, La. Rail-joint. No. 1,028,729; June 4; Sp. p. 1419; Gaz. vol. 179; p. 221.
Humason, Granville A., assignor of twenty-five one-hundreths to J. L. Kimbell, Shreveport, La. Rail-tie and fastener. No. 1,037,008; Aug. 27; Gaz. vol. 181; p. 986.
Humason Rail Joint Company. (See Dodson, William S., assignor.)
Humason Rail Joint Company. (See Humason, Granville A., assignor.)
Humbaugh, William, Dayton, Ohio. Hose-supporting device. No. 1,036,120; Aug. 20; Gaz. vol. 181; p. 651.
Humbert, Solomon B., Cedar Falls, Iowa. Rail-tie. No. 1,023,651; Apr. 16; Sp. p. 4020; Gaz. vol. 177; p. 706.
Hume, Elizabeth F., Dunedin, New Zealand. Corset. No. 1,030,585; June 25; Sp. p. 5613; Gaz. vol. 179; p. 975.
Hume, James H., Glasgow, Scotland. Furnace-front. No. 1,019,155; Mar. 5; Sp. p. 330; Gaz. vol. 176; p. 52.
Hume, James H., Glasgow, Scotland. Means for controlling the air-supply to locomotive-boiler furnaces. No. 1,028,881; June 11; Sp. p. 1759; Gaz. vol. 179; p. 308.
Hume, James H., Glasgow, Scotland. Furnace-front. No. 1,048,970; Dec. 31; Gaz. vol. 185; p. 1233.
Hume, William L., Rome, Ga. Wood-gaining machine. No. 1,016,828; Feb. 6; Sp. p. 1319; Gaz. vol. 175; p. 203.
Humel, Frank J., assignor to National Carbon Company, Cleveland, Ohio. Dry cell. No. 1,015,317; Jan. 23; Sp. p. 4913; Gaz. vol. 174; p. 851.
Humfeld, William H., Kansas City, Mo. Vehicle-wheel. No. 1,015,186; Jan. 16; Sp. p. 4617; Gaz. vol. 174; p. 779.
Humiston, John M., Berwyn, Ill. Pole-erecting apparatus. No. 1,014,477; Jan. 9; Sp. p. 3058; Gaz. vol. 174; p. 508.
Humm, Joseph A., Elyria, Ohio. Sweeper. No. 1,044,052; Nov. 12; Gaz. vol. 184; p. 384.
Hummel, Ernest A., assignor to A. L. Haman, St. Paul, Minn. Secondary electric clock. No. 1,021,045; Mar. 26; Sp. p. 4336; Gaz. vol. 176; p. 804.
Hummel, Franklin P., assignor of one-third to F. A. Higgins, Bellevue, Ohio. Rotary engine. No. 1,023,782; Apr. 16; Sp. p. 4244; Gaz. vol. 177; p. 746.
Hummel, Franklin P., assignor of one-third to F. A. Higgins, Bellevue, Ohio. Rotary engine. No. 1,026,165; May 14; Sp. p. 2367; Gaz. vol. 178; p. 399.
Hummel, James C. (See Erquhart and Hummel.)
Hummell, Sidney H., Cranbrook, British Columbia, Canada. Traction-wheel. No. 1,039,747; Oct. 1; Gaz. vol. 183; p. 26.
Hummerson, Samuel, Indianapolis, Ind. Amusement game apparatus. No. 1,047,637; Dec. 17; Gaz. vol. 185; p. 711.
Humphrey, Alfred H., New York, N. Y. Mantle-support for gas-lamps. No. 1,015,562; Jan. 23; Sp. p. 5453; Gaz. vol. 174; p. 934.
Humphrey, Alfred H., New York, N. Y. Gas-cock-operating device. No. 1,026,039; May 14; Sp. p. 2077; Gaz. vol. 178; p. 355.
Humphrey, Ernest N., New Britain, Conn. Buckle. No. 1,032,755; July 16; Gaz. vol. 180; p. 743.
Humphrey, Frederick J. and H. R., assignors to General Gas Light Company, Kalamazoo, Mich. Gas-lamp. No. 1,015,563; Jan. 23; Sp. p. 5455; Gaz. vol. 174; p. 934.
Humphrey, Frederick J. and H. R., assignors to General Gas Light Company, Kalamazoo, Mich. Gas-lamp. No. 1,015,564; Jan. 23; Sp. p. 5457; Gaz. vol. 174; p. 935.
Humphrey, Frederick J. and H. R., assignors to General Gas Light Company, Kalamazoo, Mich. Gas-lamp. No. 1,020,556; Mar. 19; Sp. p. 3287; Gaz. vol. 176; p. 587.
Humphrey Gas Pump Company. (See Humphrey and Cerasoli, assignors.)
Humphrey Gas Pump Company. (See Smyth, William H., assignor.)
Humphrey, General, Hamburg, Tenn. Lifting device. No. 1,036,496; Aug. 20; Gaz. vol. 181; p. 782.
Humphrey, George S., *et al.*, executors. (See Hunt, Charles W.)
Humphrey, Herbert A., and A. Cerasoli, London, England, assignors to Humphrey Gas Pump Company. Raising or forcing liquid. No. 1,037,009; Aug. 27; Gaz. vol. 181; p. 986.
Humphrey, Herbert S., Kalamazoo, Mich. Water-heater. No. 1,029,870; June 18; Sp. p. 3936; Gaz. vol. 179; p. 685.
Humphrey, Herbert S., Kalamazoo, Mich. Water-heater. No. 1,033,103; July 23; Gaz. vol. 180; p. 897.
Humphrey, Herbert S., Kalamazoo, Mich. Water-heater. No. 1,033,896; July 30; Gaz. vol. 180; p. 1189.
Humphrey, Hubert R. (See Humphrey, Frederick J. and H. R.)
Humphrey, James A. (See Carpenter and Humphrey.)
Humphrey, John D., Waterbury, assignor of one-half to J. M. Brady, New Britain, and E. C. Halliday, Hartford, Conn. Door-closer. No. 1,040,683; Oct. 8; Gaz. vol. 183; p. 378.
Humphrey, Robert S., *et al.* (See Spink, Edward J., assignor.)
Humphrey & Sons. (See Reece, Juan H., assignor.)
Humphrey, Thomas, Brookville, Pa. Envelop moistening and sealing device. No. 1,044,182; Nov. 12; Gaz. vol. 184; p. 427.
Humphrey, William, Auburn, Nebr. Egg-testing device. No. 1,033,017; July 16; Gaz. vol. 180; p. 828.
Humphrey, William, and T. R. Stewart, Auburn, Nebr. Hydrocarbon-burner. No. 1,038,142; Sept. 10; Gaz. vol. 182; p. 356.
Humphreys, Guy F., assignor to C. E. Burgess, Devils Lake, N. D. Thermotic switch. No. 1,042,920; Oct. 29; Gaz. vol. 183; p. 1230.
Humphreys, Jerome N., Dallas, Tex., assignor to The Allbright-Nell Co., Chicago, Ill. Apparatus for chilling and whitening lard compounds. No. 1,036,628; Aug. 27; Gaz. vol. 181; p. 859.
Humphreys, John C., Sutton, W. Va. Watchcase. No. 1,028,730; June 4; Sp. p. 1420; Gaz. vol. 179; p. 221.
Humphreys, Walter L. (See Wobus and Humphreys.)
Humphris Engineering Syndicate Limited, The. (See Humphris, Frank, assignor.)
Humphris, Frank, Barton Peveril, Eastleigh, England. Toothed gearing. No. 1,040,685; Oct. 8; Gaz. vol. 183; p. 378.
Humphris, Frank, Barton Peveril, Eastleigh, assignor to The Humphris Engineering Syndicate Limited, London, England. Apparatus for making toothed gearing. No. 1,040,684; Oct. 8; Gaz. vol. 183; p. 378.
Humrick, Otto von, Detroit, Mich. Combined coupling and nipple for electric outlet-boxes. No. 1,035,443; Aug. 13; Gaz. vol. 181; p. 383.
Huncker, Lewis D., Ravenna, Nebr. Bed-spring frame. No. 1,016,152; Jan. 30; Sp. p. 6704; Gaz. vol. 174; p. 1165.
Hundrieser, Hans, Halensee, near Berlin, Germany. Sculptor's copying-machine. No. 1,039,406; Sept. 24; Gaz. vol. 182; p. 842.
Hungerbühler, Emil H. (See Hardy and Hungerbühler.)
Hungerford, Henry H. (See Peters and Hungerford.)
Hungerford, Oliver T., Belleville, N. J. Electric conduit. No. 1,017,759; Feb. 20; Sp. p. 3329; Gaz. vol. 175; p. 596.
Hunkle, Frederick P., and C. Nordfeldt, McKeesport, Pa. Metallic tie and rail-fastener. No. 1,024,939; Apr. 30; Sp. p. 6886; Gaz. vol. 177; p. 1209.
Hunn, Howard G., New York, N. Y. Chair-iron. No. 1,044,530; Nov. 19; Gaz. vol. 184; p. 578.
Hunn, Sandford W., Coldwater, Kans. Punch. No. 1,039,947; Oct. 1; Gaz. vol. 183; p. 91.
Hunn, Wilbur S. (See Bowman and Hunn.)
Hunnicutt, Charles, Wilmington, assignor to The Charles Hunnicutt Company, Clinton county, Ohio. Seed-corn grader. No. 1,026,265; May 14; Sp. p. 2589; Gaz. vol. 178; p. 434.
Hunnicutt, Charles, Wilmington, assignor to The Charles Hunnicutt Company, Clinton county, Ohio. Seed-corn grader. No. 1,027,734; May 28; Sp. p. 5771; Gaz. vol. 178; p. 1005.

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Hunsicker, Allan D. and B. A., Shawnee, Okla. Steam-boiler gage No. 1,041,628; Oct. 15; Gaz. vol. 183; p. 723.
Hunsicker, Bertram A. (See Hunsicker, Allan D. and B. A.)
Hunsicker, Edwin S., Norristown, Pa. Trap for wash-stands. No. 1,014,223; Jan. 9; Sp. p. 2508; Gaz. vol. 174; p. 421.
Hunt, Charles T., Los Angeles, Cal. Nut-lock. No. 1,032,605; July 16; Gaz. vol. 180; p. 689.
Hunt, Charles W., *et al.*, executors. (See Hunt, Charles W.)
Hunt, Charles W., deceased, New York, N. Y.; K. H. and C. W. Hunt and G. S. Humphrey, executors. Motor-truck. No. 1,020,607; Mar. 19; Sp. p. 3399; Gaz. vol. 176; p. 603.
Hunt, Charles W., deceased, New York, N. Y.; K. H. and C. W. Hunt and G. S. Humphrey, executors. Conveyer. No. 1,048,834; Dec. 31; Gaz. vol. 185; p. 1187.
Hunt, Elzo B., assignor to Hunt, Helm, Ferris & Company, Harvard, Ill. Hanger for litter-carriers. No. 1,025,527; May 7; Sp. p. 946; Gaz. vol. 178; p. 146.
Hunt, Frank L., Cincinnati, Ohio. Package-lifter. No. 1,024,991; Apr. 30; Sp. p. 6985; Gaz. vol. 177; p. 1227.
Hunt, Fred L., Newburyport, Mass. Ventilator. No. 1,047,638; Dec. 17; Gaz. vol. 185; p. 711.
Hunt, Frederick G., Elora, Ontario, Canada. Disk harrow. No. 1,041,797; Oct. 22; Gaz. vol. 183; p. 819.
Hunt, Frederick S. (See Buschman, Edward, assignor.)
Hunt, George G., Plano, Ill. Garment-hanger. No. 1,020,608; Mar. 19; Sp. p. 3400; Gaz. vol. 176; p. 603.
Hunt, George G., Plano, Ill. Flat-iron stand and polisher. No. 1,029,446; June 11; Sp. p. 3003; Gaz. vol. 179; p. 502.
Hunt, George W., New York, N. Y. Pipe-clamp. No. 1,013,165; Jan. 2; Sp. p. 156; Gaz. vol. 174; p. 27.
Hunt, Harry A., Wilmington, Del. Crusher-head for grinding-mills. No. 1,026,319; May 14; Sp. p. 2706; Gaz. vol. 178; p. 453.
Hunt, Harry V., Jersey City, N. J. Governor. No. 1,014,754; Jan. 16; Sp. p. 3699; Gaz. vol. 174; p. 631.
Hunt, Helm, Ferris & Company. (See Ferris, Henry L., assignor.)
Hunt, Helm, Ferris & Company. (See Hunt, Elzo B., assignor.)
Hunt, Henry C., Palacios, Tex. Tool for removing floors, siding, scaffolds, &c. No. 1,030,660; June 25; Sp. p. 5866; Gaz. vol. 179; p. 1003.
Hunt, Horace S., Jackson, Mich. Conduit. No. 1,041,290; Oct. 15; Gaz. vol. 183; p. 614.
Hunt, James, Conrad, Iowa. Corn-tipper. No. 1,049,095; Dec. 31; Gaz. vol. 185; p. 1277.
Hunt, John E., Fremont, Ohio. Automatic railway signaling device. No. 1,031,119; July 2; Gaz. vol. 180; p. 96.
Hunt, Katharine H., *et al.*, executors. (See Hunt, Charles W.)
Hunt, Kittie G., Wichita, Kans. Clothes-line-supporting device. No. 1,035,706; Aug. 13; Gaz. vol. 181; p. 471.
Hunt, Louis J., Sandycroft, England. Dynamo-electric machine. (Reissue.) No. 13,354; Jan. 9; Sp. p. 3414; Gaz. vol. 174; p. 564.
Hunt, Mayfield F., White Sulphur Springs, Mont. Fly-trap. No. 1,048,971; Dec. 31; Gaz. vol. 185; p. 1233.
Hunt, Ozello R., Chicago, Ill., assignor to The Simmons Mfg. Co., Kenosha, Wis. Mattress and bed spring. No. 1,013,294; Jan. 2; Sp. p. 463; Gaz. vol. 174; p. 72.
Hunt, Ozello R., assignor of one-half to W. Van Middlesworth, Chicago, Ill. Spring structure. No. 1,027,051; May 21; Sp. p. 4357; Gaz. vol. 178; p. 739.
Hunt, Ozello R., assignor of one-half to W. Van Middlesworth, Chicago, Ill. Mattress. No. 1,034,800; Aug. 6; Gaz. vol. 181; p. 135.
Hunt, Patrick, New Bedford, assignor to Draper Company, Hopedale, Mass. Thread-stripper for loom-shuttles. No. 1,048,538; Dec. 31; Gaz. vol. 185; p. 1083.
Hunt, Thomas B., Chicago, Ill. Placard-guard for railway-cars. No. 1,047,128; Dec. 10; Gaz. vol. 185; p. 500.
Hunt, Wilfred, Hillhead, Glasgow, Scotland. Exhauster or compressor for gases, also applicable as an ejector-condenser. No. 1,040,981; Oct. 8; Gaz. vol. 183; p. 475.
Hunt, William A., Attica, Ind. Hay-rack. No. 1,046,069; Dec. 3; Gaz. vol. 185; p. 92.
Hunt, William F., New Brighton, assignor to C. W. Hunt Company, West New Brighton, N. Y. Storage of coal, ores, &c. No. 1,026,444; May 14; Sp. p. 2998; Gaz. vol. 178; p. 494.
Hunt, William F., New Brighton, and F. E. Murphy, assignors to C. W. Hunt Company, West New Brighton, N. Y. Method and apparatus for washing fruit, &c. No. 1,047,639; Dec. 17; Gaz. vol. 185; p. 712.
Hunt, William H., National City, Cal. Power-transmission mechanism. No. 1,048,076; Dec. 24; Gaz. vol. 185; p. 888.
Hunt, Wilson P., assignor to Reynolds Pattern and Machine Company, Moline, Ill. Adjustable table for automatic screw-driving machines. No. 1,017,098; Feb. 13; Sp. p. 1945; Gaz. vol. 175; p. 334.
Hunter, Albert S., Sr., Quitman, Ga. Machine for splitting and removing stumps. No. 1,032,481; July 16; Gaz. vol. 180; p. 648.
Hunter, Alfred J., Bayonne, N. J., assignor to G. E. Austin, Brooklyn, N. Y. Pinion-pulling mechanism. No. 1,045,146; Nov. 26; Gaz. vol. 184; p. 820.
Hunter, Benjamin F., Cincinnati, Ohio. Doily-cabinet. No. 1,014,598; Jan. 9; Sp. p. 3282; Gaz. vol. 174; p. 547.
Hunter, Caroline L., Los Angeles, Cal. Combination-cabinet. No. 1,023,204; Apr. 16; Sp. p. 3139; Gaz. vol. 177; p. 562.
Hunter, Carrie B., Bessemer, Ala. Adhesive. No. 1,035,090; Aug. 6; Gaz. vol. 181; p. 229.
Hunter, Charles, Rayland, Ohio, assignor of one-fourth to E. R. Cole, Smithfield, Pa. Nut-lock. No. 1,048,539; Dec. 31; Gaz. vol. 185; p. 1083.
Hunter, David E. (See Emery and Hunter.)
Hunter, David E., Cambridge, Mass., assignor to Library Bureau, Boston, Mass. Expansible cabinet. No. 1,020,557; Mar. 19; Sp. p. 3290; Gaz. vol. 176; p. 588.
Hunter, David E., East Orange, N. J., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Casement latch and adjuster. No. 1,032,906; July 16; Gaz. vol. 180; p. 792.
Hunter, Ellwood W., Philadelphia, Pa. Ice-boot for horses. No. 1,034,801; Aug. 6; Gaz. vol. 181; p. 135.
Hunter, Frank A., Pittsburgh, Pa. Metal-cutting saw. No. 1,037,146; Aug. 27; Gaz. vol. 181; p. 1032.
Hunter, George H., Redlands, Cal. Sprinkler for spraying areas of definite shape. No. 1,016,632; Feb. 6; Sp. p. 931; Gaz. vol. 175; p. 139.
Hunter, Grover C., Shelby, Ohio. Mausoleum. No. 1,034,455; Aug. 6; Gaz. vol. 181; p. 18.
Hunter, Guy. (See Walker and Hunter.)
Hunter, Harrison A., Mankato, Kans. Pole and shafts. No. 1,022,555; Apr. 9; Sp. p. 1693; Gaz. vol. 177; p. 299.
Hunter, Harry, Indianapolis, Ind. Dry-kiln. No. 1,043,235; Nov. 5; Gaz. vol. 184; p. 67.
Hunter, Harry W. (See Longfellow and Hunter.)
Hunter, Henry B., Norfolk, Va. Food product and making the same. No. 1,043,839; Nov. 12; Gaz. vol. 184; p. 310.
Hunter, Henry B., New York, N. Y. Making carbon dioxid. No. 1,044,531; Nov. 19; Gaz. vol. 184; p. 578.
Hunter, Howard S., East Boston, Mass. Incandescent-lamp base. No. 1,028,025; May 28; Sp. p. 6428; Gaz. vol. 178; p. 1103.
Hunter, Hugh M., assignor to The National Acme Manufacturing Company, Cleveland, Ohio. Roller-clutch. No. 1,024,580; Apr. 30; Sp. p. 6120; Gaz. vol. 177; p. 1083.
Hunter, James F., Sioux Rapids, Iowa. Shocker attachment. No. 1,020,425; Mar. 19; Sp. p. 3004; Gaz. vol. 176; p. 544.
Hunter, James F., Sioux Rapids, Iowa. Fender. No. 1,040,335; Oct. 8; Gaz. vol. 183; p. 253.
Hunter, James S., Boston, Mass. Type-writer desk. No. 1,037,627; Sept. 3; Gaz. vol. 182; p. 150.
Hunter, John. (See Gilfillan, Essington N., assignor.)
Hunter, John A., Cleveland, Ohio. Grinding-machine. No. 1,031,934; July 9; Gaz. vol. 180; p. 419.
Hunter, Lewis C. (See Delaney, Michael G., assignor.)
Hunter, Louis C., assignor of one-fifth to A. J. Bortle, Detroit, Mich. Valve-lock. No. 1,034,802; Aug. 6; Gaz. vol. 181; p. 135.
Hunter, Matthew A., Schenectady, N. Y., assignor to General Electric Company. Metal filament. No. 1,023,315; Apr. 16; Sp. p. 3362; Gaz. vol. 177; p. 599.
Hunter, Matthew A., Schenectady, N. Y., assignor to General Electric Company. Tubular metalized filament. No. 1,025,469; May 7; Sp. p. 811; Gaz. vol. 178; p. 126.
Hunter, Rudolph M. (See Fitts and Hunter.)
Hunter, Rudolph M. (See Lofton, Butler, and Hunter.)
Hunter, Rudolph M., Philadelphia, Pa. Refrigerating apparatus. No. 1,015,957; Jan. 30; Sp. p. 6297; Gaz. vol. 174; p. 1096.
Hunter, Rudolph M., Philadelphia, Pa. Sprinkler-nozzle. No. 1,028,940; June 11; Sp. p. 1896; Gaz. vol. 179; p. 327.
Hunter, Rudolph M., Philadelphia, Pa. Fire-extinguishing sprinkler-nozzle. No. 1,032,548; July 16; Gaz. vol. 180; p. 670.
Hunter, Rudolph M., Philadelphia, Pa., assignor to Patterson-Allen Engineering Company. Pipe-flanging machine. No. 1,039,948; Oct. 1; Gaz. vol. 183; p. 92.
Hunter, Rudolph M., Philadelphia, Pa., assignor to Warren Webster & Company. Mist-producing nozzle. No. 1,041,798; Oct. 22; Gaz. vol. 183; p. 820.
Hunter, William A., Jr., and F. W. Bassett, Los Angeles, Cal. Flushing-valve. No. 1,025,092; Apr. 30; Sp. p. 7188; Gaz. vol. 177; p. 1259.
Hunter, William G., Nebo, N. C. Clod-crusher and land-smoother. No. 1,047,061; Dec. 10; Gaz. vol. 185; p. 475.
Hunter, William N., Blanchester, Ohio. Sound-reproducer for talking-machines, telephones, &c. No. 1,015,622; Jan. 23; Sp. p. 5583; Gaz. vol. 174; p. 956.
Huntington, Frederic D., London, England. Reinforced concrete structure. No. 1,045,292; Nov. 26; Gaz. vol. 184; p. 871.

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Huntley, Charles L. (See Hibbert and Huntley.)
Huntley, Herbert R., North Sudbury, Mass. Horseshoe and calk. No. 1,043,597; Nov. 5; Gaz. vol. 184; p. 197.
Huntley, Stephen A., assignor of one-third to J. C. Dye and one-third to J. C. Smith, Sioux City, Iowa. Target-throwing device. No. 1,030,852; June 25; Sp. p. 6443; Gaz. vol. 179; p. 1073.
Huntoon, Charles F. (See Perry and Huntoon.)
Huntoon, Charles F., assignor to H. D. Laughlin, Chicago, Ill. Brake-head and key. No. 1,018,618; Feb. 27; Sp. p. 5328; Gaz. vol. 175; p. 924.
Hunziker, Adolph A., assignor to Woodward & Tiernan Printing Company, St. Louis, Mo. Temporary binder. No. 1,023,566; Apr. 16; Sp. p. 3852; Gaz. vol. 177; p. 678.
Hupfer, Theodore H. (See Hoffmann and Hupfer.)
Hupp, Albert, Kansas City, Mo. Mail-exchange system. No. 1,020,609; Mar. 19; Sp. p. 3402; Gaz. vol. 176; p. 604.
Hupp, Albert, Kansas City, Mo. Mail-bag station-crane. No. 1,020,610; Mar. 19; Sp. p. 3416; Gaz. vol. 176; p. 604.
Hurd & Company, George B. (See Wolf, Otto A., assignor.)
Hurd, Norman B. (See Voight and Hurd.)
Hurd, William, Troy, N. Y. Yarn-stripper. No. 1,041,088; Oct. 15; Gaz. vol. 183; p. 545.
Hurdleston, O. G. (See Watkins, William J., assignor.)
Hurff, Lucien W., Galesburg, Ill. Seed-corn drier. No. 1,045,407; Nov. 26; Gaz. vol. 184; p. 911.
Hurlbut, Ira D., Prairie du Chien, Wis. Drying-machine for printed sheets. No. 1,042,441; Oct. 29; Gaz. vol. 183; p. 1063.
Hurlbut, Ira D., Prairie du Chien, Wis. Relief printing. No. 1,047,640; Dec. 17; Gaz. vol. 185; p. 712.
Hurlbut, Ira D., Prairie du Chien, Wis. Composition for relief printing. No. 1,047,892; Dec. 17; Gaz. vol. 185; p. 800.
Hurley, David J., Sale, Victoria, Australia. Door check and closer. No. 1,049,096; Dec. 31; Gaz. vol. 185; p. 1277.
Hurley Hercules Pneumatic Tire Company. (See Shoemaker, Alvin H., assignor.)
Hurley, J. W. (See Gensmer, Theodore, assignor.)
Hurley, J. W., *et al.* (See Shoemaker, Alvin H., assignor.)
Hurley, John W. (See Gensmer, Theodore, assignor.)
Hurley, John W., *et al.* (See Shoemaker, Alvin H., assignor.)
Hurley, John W., Portland, Oreg. Garbage-receptacle. No. 1,019,156; Mar. 5; Sp. p. 331; Gaz. vol. 176; p. 52.
Hurley, John W., Washington, D. C. Beer-cooler. No. 1,046,298; Dec. 3; Gaz. vol. 185; p. 174.
Hurley, Justin T., Elizabeth, N. J. Computing-machine. No. 1,027,847; May 28; Sp. p. 6027; Gaz. vol. 178; p. 1044.
Hurley, Justin T., Elizabeth, assignor, by mesne assignments, to Union Typewriter Company, Jersey City, N. J. Paper-table extensible support for type-writing, &c., machines. No. 1,033,054; July 16; Gaz. vol. 180; p. 841.
Hurm, Horace, Paris, France. Device for shuffling and distributing cards. No. 1,043,109; Nov. 5; Gaz. vol. 184; p. 21.
Hurson, James, Bigbend, S. D. Figure toy. No. 1,019,157; Mar. 5; Sp. p. 332; Gaz. vol. 176; p. 52.
Hurst, Daniel, and H. K. Bridger, London, England. Bottle, jar, and the like and stopper therefor. No. 1,022,141; Apr. 2; Sp. p. 826; Gaz. vol. 177; p. 131.
Hurst, George W., Lake Arthur, La. Neck-yoke fastener. No. 1,021,102; Mar. 26; Sp. p. 4440; Gaz. vol. 176; p. 822.
Hurst, Henry F., Seattle, Wash. Combined shoemaker's stand and last. No. 1,017,872; Feb. 20; Sp. p. 3640; Gaz. vol. 175; p. 635.
Hurst, Joseph, Louisville, Ky. Centrifugal pump. No. 1,034,456; Aug. 6; Gaz. vol. 181; p. 19.
Hurst, Joseph, Bessemer, Ala. Rifle wipe-rod. No. 1,035,707; Aug. 13; Gaz. vol. 181; p. 471.
Hurst, Josiah W., Richmond, England. Attachment to piano-cases. No. 1,021,525; Mar. 26; Sp. p. 5382; Gaz. vol. 176; p. 968.
Hurwitz, Abraham, New York, N. Y. Device for setting pallet-jewels. No. 1,016,829; Feb. 6; Sp. p. 1321; Gaz vol. 175; p. 203.
Hurwitz, Eugen, Berlin, Germany, assignor to General Electric Company. Apparatus for drawing wires. No. 1,023,316; Apr. 16; Sp. p. 3363; Gaz. vol. 177; p. 600.
Huson, Martha B., New York, N. Y. Street-cleaning machine. No. 1,026,445; May 14; Sp. p. 2999; Gaz. vol. 178; p. 495.
Hussey, Alfred R., Harvard, assignor to American Water Supply of New England, Boston, Mass. Vending-machine. No. 1,026,166; May 14; Sp. p. 2371; Gaz. vol. 178; p. 400.
Hussey, John R., Indianapolis, Ind. Sliding-door construction. No. 1,015,025; Jan. 16; Sp. p. 4313; Gaz. vol. 174; p. 726.
Husson, August, Oshkosh, Wis. Shade-roller lock. No. 1,034,457; Aug. 6; Gaz. vol. 181; p. 19.
Hustace, Frank, and J. J. Smiddy, Honolulu, Hawaii. Cane-cutter. No. 1,021,605; Mar. 26; Sp. p. 5536; Gaz. vol. 176; p. 994.
Hustead, Halla H., Brown, W. Va. Safety gas cut-off. No. 1,033,700; July 23; Gaz. vol. 180; p. 1094.
Husted, Charles L., Jersey City, assignor to New York Bottlers' Supplies Mfg. Co., Hoboken, N. J. Siphon-bottle. No. 1,020,506; Mar. 19; Sp. p. 3171; Gaz. vol. 176; p. 570.
Huston, Charles L., Coatesville, Pa. Press for bending metal shapes. No. 1,021,526; Mar. 26; Sp. p. 5383; Gaz. vol. 176; p. 969.
Huston, Frank P., Dumont, N. J. Pliers for stripping insulation from electric wires. No. 1,022,679; Apr. 9; Sp. p. 1962; Gaz. vol. 177; p. 341.
Huston, George H., Cincinnati, Ohio. Gas-burner. No. 1,024,261; Apr. 23; Sp. p. 5376; Gaz. vol. 177; p. 941.
Huston, George M., New York, N. Y. Vehicle-spring. No. 1,032,214; July 9; Gaz. vol. 180; p. 512.
Huston, George M., New York, N. Y. Vehicle-spring. No. 1,032,335; July 9; Gaz. vol. 180; p. 554.
Huston, George M., New York, N. Y. Vehicle-spring. No. 1,036,247; Aug. 20; Gaz. vol. 181; p. 697.
Huston, George M., New York, N. Y. Vehicle-spring. No. 1,049,097; Dec. 31; Gaz. vol. 185; p. 1277.
Huston, Peter, assignor to The Adams & Westlake Company, Chicago, Ill. Shade-holder. No. 1,027,848; May 28; Sp. p. 6053; Gaz. vol. 178; p. 1045.
Hutches, Benjamin F., Jr., Allendale, N. J. Electromotor. No. 1,013,494; Jan. 2; Sp. p. 887; Gaz. vol. 174; p. 141.
Hutches, Benjamin F., Jr., Allendale, N. J. Speed-regulator for electromotors. No. 1,014,707; Jan. 16; Sp. p. 3597; Gaz. vol. 174; p. 616.
Hutches, Benjamin F., Jr., Allendale, N. J. Ribbon-feed mechanism. No. 1,033,246; July 23; Gaz. vol. 180; p. 947.
Hutcheson, Earl H. (See Christian and Hutcheson.)
Hutcheson, Robert B., Montreal, Quebec, Canada. Whist-counter. No. 1,032,606; July 16; Gaz. vol. 180; p. 689.
Hutchings, Charles E. (See Ruttan and Hutchings.)
Hutchings, Charles E., assignor, by mesne assignments, to Eastman Kodak Company, Rochester, N. Y. Photographic camera. No. 1,024,200; Apr. 23; Sp. p. 5246; Gaz. vol. 177; p. 919.
Hutchings, Floyd O. (See Anderson and Hutchings.)
Hutchings, Frederick E., New York, N. Y., assignor to Auto Life Saving Fender Co. Fender or wheel-guard. No. 1,018,563; Feb. 27; Sp. p. 5219; Gaz. vol. 175; p. 907.
Hutchings, George B. (See McConnell, Ralph, assignor.)
Hutchings, Thed S., Hilts, Cal. Power-transmitting mechanism. No. 1,040,336; Oct. 8; Gaz. vol. 183; p. 253.
Hutchings, William, Duluth, Minn. Combined iron rest, polisher, and waxer. No. 1,014,478; Jan. 9; Sp. p. 3062; Gaz. vol. 174; p. 508.
Hutchins, Arthur W., assignor of one-half to W. C. Woodward, Providence, R. I. Fuel-supply tank. No. 1,033,897; July 30; Gaz. vol. 180; p. 1189.
Hutchins Car Roofing Company. (See Thompson, William D., assignor.)
Hutchins, Edgar G., Jr., assignor to American Dehydrating Co., Waukesha, Wis. Producing raw dehydrated Irish potatoes. No. 1,016,503; Feb. 6; Sp. p. 616; Gaz. vol. 175; p. 94.
Hutchins, George F., Worcester, Mass., assignor to Crompton & Knowles Loom Works. Loom for weaving tufted fabrics. No. 1,033,589; July 23; Gaz. vol. 180; p. 1059.
Hutchins, George F., Worcester, Mass., assignor to Crompton & Knowles Loom Works. Printing-drum. No. 1,034,914; Aug. 6; Gaz. vol. 181; p. 171.
Hutchins, George F., Worcester, Mass., assignor to Crompton & Knowles Loom Works. Locking device for mechanical filling-detectors. No. 1,035,590; Aug. 13; Gaz. vol. 181; p. 433.
Hutchins, George F., Worcester, Mass., assignor to Crompton & Knowles Loom Works. Narrow-ware or ribbon loom. No. 1,048,540; Dec. 31; Gaz. vol. 185; p. 1084.
Hutchins, John B., Summerville, Ga. Bucket. No. 1,048,411; Dec. 24; Gaz. vol. 185; p. 1001.
Hutchins, John E., Middletown, Conn. Watering-trough. No. 1,033,018; July 16; Gaz. vol. 180; p. 829.
Hutchins, Styles L. (See Taylor and Hutchins.)
Hutchins, William O., Vermilion Grove, Ill. Wire-stretcher. No. 1,034,458; Aug. 6; Gaz. vol. 181; p. 19.
Hutchinson, Charles H. (See Light and Hutchinson.)
Hutchinson, George W., Walton, New Zealand. Internal-combustion engine. No. 1,033,760; July 23; Gaz. vol. 180; p. 1113.
Hutchinson, George W., Walton, Waikato, Auckland, New Zealand. Automatic notch-finder. No. 1,037,257; Sept. 3; Gaz. vol. 182; p. 28.
Hutchinson, George W., Walton, Auckland, New Zealand. Sparking-regulator for internal-combustion engines. No. 1,039,407; Sept. 24; Gaz. vol. 182; p. 843.
Hutchinson, George W., Walton, Waikato, New Zealand. Lever. No. 1,040,337; Oct. 8; Gaz. vol. 183; p. 254.

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Hutchinson, Harry, assignor of one-fourth to E. H. Finigan and one-fourth to D. Marshall, Syracuse, Nebr. Tool for use in oiling leaf-springs. No. 1,048,412; Dec. 24; Gaz. vol. 185; p. 1001.
Hutchinson, Hugh H. (See Arnold, Jacob F., assignor.)
Hutchinson, Josiah K., and R. H. Wallace, Beaver, Pa. Spike or nail. No. 1,031,556; July 2; Gaz. vol. 180; p. 246.
Hutchinson, Mackintosh, Toronto, Ontario, Canada. Sawing-machine. No. 1,014,708; Jan. 16; Sp. p. 3599; Gaz. vol. 174; p. 616.
Hutchinson, Rowland, Nottingham, England. Knitting-machine. No. 1,021,678; Mar. 26; Sp. p. 5651; Gaz. vol. 176; p. 1017.
Hutchinson, Warren B., Newark, N. J., assignor to Co-Operative Syndicate, New York, N. Y. Match-machine. No. 1,045,293; Nov. 26; Gaz. vol. 184; p. 872.
Hutchinson, William F., assignor to Match Supply Company, Valatie, N. Y. Cutter. No. 1,031,935; July 9; Gaz. vol. 180; p. 419.
Hutchinson, William J., Caledon East, Ontario, Canada. Feeder for threshing-machines, clover-mills, and the like. No. 1,033,590; July 23; Gaz. vol. 180; p. 1060.
Hutchison, Frank P. (See Barrett, James G., assignor.)
Hutchison, John A. (See Echard and Hutchison.)
Hutchison, Miller R., Summit, N. J. Clencher-tire and securing-lug therefor. No. 1,038,143; Sept. 10; Gaz. vol. 182; p. 356.
Hutchison. Miller R., Summit, N. J. Rim and tire for vehicle-wheels. No. 1,038,144; Sept. 10; Gaz. vol. 182; p. 356.
Hutchison, Miller R., Summit, N. J. Detachable rim for vehicle-wheels. No. 1,038,372; Sept. 10; Gaz. vol. 182; p. 433.
Hutchison, Miller R., Bronxville, N. Y. Signaling-horn, &c. No. 1,043,703; Nov. 5; Gaz. vol. 184; p. 232.
Hutchison, Miller R., Bronxville, N. Y. Electrical switching and testing device. No. 1,048,172; Dec. 24; Gaz. vol. 185; p. 922.
Hutchison, Miller R., New York, N. Y. Combination alarm device. No. 1,043,704; Nov. 5; Gaz. vol. 184; p. 232.
Hutchison, Ora F., Britton, Okla. Folding fowl-crate. No. 1,036,850; Aug. 27; Gaz. vol. 181; p. 933.
Hutchison, Ora F., and S. F. Banks, Oklahoma, Okla. Box. No. 1,046,790; Dec. 10; Gaz. vol. 185; p. 387.
Hutchison, Orville T., assignor of one-half to P. Bleck, De Land, Fla. Shoemaker's knife. No. 1,018,908; Feb. 27; Sp. p. 5936; Gaz. vol. 175; p. 1023.
Hutchison, Robert G., assignor of one-half to Edward Lloyd Limited, Sittingbourne, England. Paper and like machinery. No. 1,040,338; Oct. 8; Gaz. vol. 183; p. 254.
Hutchison, Robert W., assignor to J. S. Jones, Sixlakes, Mich. Lock. No. 1,026,320; May 14; Sp. p. 2708; Gaz. vol. 178; p. 453.
Huth, Ferdinand, Schiffbek, near Hamburg, Germany. Safety-brake for elevators, hoists, and lifts. No. 1,023,252; Apr. 16; Sp. p. 3226; Gaz. vol. 177; p. 577.
Huth, Max, Charlottenburg, assignor to Siemens & Halske A. G., Berlin, Germany. Anode and manufacturing the same. No. 1,043,937; Nov. 12; Gaz. vol. 184; p. 344.
Hutsell, Ernest O., Athens, Tenn. Pea-harvester. No. 1,028,072; May 28; Sp. p. 6543; Gaz. vol. 178; p. 1117.
Hutten, Edwin P., East Rutherford, N. J., and J. McDougall, New York, N. Y. Folding eyeglasses. No. 1,016,153; Jan. 30; Sp. p. 6706; Gaz. vol. 174; p. 1165.
Huttenlocher, Friedrich, Charlottenburg, Germany. Safety device for gas-lamps. No. 1,038,893; Sept. 17; Gaz. vol. 182; p. 651.
Huttenlocher, Friedrich, Charlottenburg, Germany. Safety device for gas-lamps. No. 1,043,938; Nov. 12; Gaz. vol. 184; p. 345.
Hüttinger, Wilhelm R., Beverly, N. J. Gas-producer. No. 1,023,567; Apr. 16; Sp. p. 3853; Gaz. vol. 177; p. 678.
Hutto, Orlando D., Russell Springs, Kans. Self-pitcher. No. 1,034,366; July 30; Gaz. vol. 180; p. 1353.
Hutton, Amos, Chicopee Falls, Mass. Oil-can holder. No. 1,026,396; May 14; Sp. p. 2883; Gaz. vol. 178; p. 478.
Hutton, Homer F., Jeffers, Mont. Grain-separator. No. 1,019,962; Mar. 12; Sp. p. 2041; Gaz. vol. 176; p. 353.
Hutton, Joseph C., Louisville, Ky. Game apparatus. No. 1,039,133; Sept. 24; Gaz. vol. 182; p. 746.
Hutzel, Titus F., *et al.* (See Leggett. Ross M., assignor.)
Huxford, Edward D., Cherokee, Iowa. Check-printing machine. No. 1,030,889; July 2; Gaz. vol. 180; p. 14.
Huxford, George T., Providence, R. I. Adjustable automatic fluid-controlling device. No. 1,044,053; Nov. 12; Gaz. vol. 184; p. 384.
Huyck, Elizabeth L. (See Percy, Frank T., assignor.)
Huyck, Francis P., Toledo, Ohio. Making and mounting commutators. No. 1,045,147; Nov. 26; Gaz. vol. 184; p. 821.
Hvizdos, Alojs, Morrisdale Mines, Pa. Rail-fastener. No. 1,025,700; May 7; Sp. p. 1314; Gaz. vol. 178; p. 204.
Hyatt, Benjamin S. (See Kapp and Hyatt.)
Hyatt Roller Bearing Company. (See Lockwood, Charles S., assignor.)
Hyde, Alfred D., Iselin, N. J. Fastening device. No. 1,015,890; Jan. 30; Sp. p. 6160; Gaz. vol. 174; p. 1074.
Hyde, Augustus C., London, England. Making electrically-conducting joints in metallic-filament incandescent electric lamps. No. 1,031,716; July 9; Gaz. vol. 180; p. 343.
Hyde, Benjamin T. B., New York, N. Y. Caster for store-counters. No. 1,032,006; July 9; Gaz. vol. 180; p. 442.
Hyde, Benjamin T. B., New York, N. Y. Adjustable bracket for supporting shelving. No. 1,037,915; Sept. 10; Gaz. vol. 182; p. 281.
Hyde, Benjamin T. B., New York, N. Y. Game apparatus. No. 1,038,756; Sept. 17; Gaz. vol. 182; p. 603.
Hyde, Benjamin T. B., New York, N. Y. Store-shelving. No. 1,043,432; Nov. 5; Gaz. vol. 184; p. 138.
Hyde, Benjamin T. B., New York, N. Y. Shiftable extensible support for shelving. No. 1,044,889; Nov. 19; Gaz. vol. 184; p. 703.
Hyde, Benjamin T. B., New York, N. Y., and A. Gaul, Jr., Ridgefield, N. J. Aeroplane. No. 1,048,835; Dec. 31; Gaz. vol. 185; p. 1187.
Hyde, Charles A., Danielson, assignor to The E. H. Jacobs Manufacturing Company, Killingly, Conn. Wigwam-seat. No. 1,046,299; Dec. 3; Gaz. vol. 185; p. 175.
Hyde, Charles H., assignor to Wm. L. Gilbert Clock Company, Winsted, Conn. Alarm mechanism. No. 1,049,303; Dec. 31; Gaz. vol. 185; p. 1347.
Hyde, George A., Lonsdale, R. I. Gas-governor. No. 1,040,545; Oct. 8; Gaz. vol. 183; p. 325.
Hyde, George H., assignor to The Hyde Metal Boat Company, Watertown, N. Y. Apparatus for deforming sheet-metal plates. No. 1,032,907; July 16; Gaz. vol. 180; p. 793.
Hyde, Hiram, and J. Gage, Geneseo, Kans. Hydrocarbon-engine. No. 1,022,027; Apr. 2; Sp. p. 587; Gaz. vol. 177; p. 93.
Hyde, James M., Basin, Mont. Concentration of mineral substances. No. 1,022,085; Apr. 2; Sp. p. 703; Gaz. vol. 177; p. 112.
Hyde, John, Pittsburgh, Pa. Steam-valve. No. 1,017,292; Feb. 13; Sp. p. 2354; Gaz. vol. 175; p. 401.
Hyde, Marcus L., Chicago, Ill., assignor to W. D. Ord, Landgraff, W. Va. Dump-car. No. 1,014,396; Jan. 9; Sp. p. 2910; Gaz. vol. 174; p. 482.
Hyde Metal Boat Company, The. (See Hyde, George H., assignor.)
Hydraulic Clutch Drive Co. (See Henderson, William W., assignor.)
Hydraulic Pressed Steel Company, The. (See Foster, James H., assignor.)
Hydraulic Vacuum Cleaning Company, The. (See MacKenzie, George W., assignor.) (Reissue.)
Hydro-Carbon Machine Company. (See Ratcliff, William H., assignor.)
Hydro-Carbon Vaporizer Limited, The. (See Mowbray, James W., assignor.)
Hydro Engine, Power and Irrigation Company. (See Bovee, Ransom Y., assignor.)
Hydro-Kinetic Transmission Co., The. (See Rich, Charles C., assignor.)
Hydro Patent Power Co. (See Smith, Norman R., assignor.)
Hydro-Vacuum. (See Frame, William J., assignor.)
Hydrocarbon Converter Company. (See Benham, Elijah B., assignor.)
Hygienic Soap Granulator Company. (See Shaver, George F., assignor.)
Hygienic Products Company, The. (See Oldham, Edwin W., assignor.)
Hyle, Jacob A., assignor of one-half to J. A. Pement, Chicago, Ill. Railway-tie and fastening means therefor. No. 1,016,690; Feb. 6; Sp. p. 1040; Gaz. vol. 175; p. 158.
Hyle, Jacob A., and J. A. Pement, Chicago, Ill. Railway-tie and rail-fastening. No. 1,013,395; Jan. 2; Sp. p. 678; Gaz. vol. 174; p. 107.
Hyle, Jacob A., and W. R. Carmody, Chicago, Ill. Railway-tie and rail-fastening. No. 1,039,748; Oct. 1; Gaz. vol. 183; p. 26.
Hyle, William A., Buffalo, N. Y., assignor to P. E. Macdonald, Toronto, Canada. Pipe-wrench. No. 1,016,997; Feb. 13; Sp. p. 1708; Gaz. vol. 175; p. 298.
Hyle, William A., assignor to Macdonald and Sons, Limited, Toronto, Ontario, Canada. Pipe-wrench. No. 1,026,040; May 14; Sp. p. 2078; Gaz. vol. 178; p. 356.
Hylton, John C., Chicago, Ill. Hinge. No. 1,022,588; Apr. 9; Sp. p. 1759; Gaz. vol. 177; p. 310.
Hyman, Aaron, *et al.* (See Page, Herbert J., assignor.)
Hyman, Charles H., Denver, Colo. Clothes-washer. No. 1,027,543; May 28; Sp. p. 5385; Gaz. vol. 178; p. 944.
Hyne, Henry A. (See Heberer and Hyne.)
Hynek, Max, Riesa-on-the-Elbe, Germany. Automatic door-operating appliance. No. 1,026,805; May 21; Sp. p. 3773; Gaz. vol. 178; p. 653.
I. B. Kleinert Rubber Company. (See Guinzburg, George K., assignor.)
I. B. Kleinert Rubber Company. (See Guinzburg, Victor, assignor.)
I. E. Palmer Co., The. (See Palmer, Isaac E., assignor.)
Iblings, John I., Cedar Falls, Iowa. Snow-fence. No. 1,026,806; May 21; Sp. p. 3773; Gaz. vol. 178; p. 653.

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Iceless Refrigerator Company. (See Wolf and Southworth, assignors.)
Ickes, Carl, Chicago, Ill. Greenhouse. No. 1,045,847; Dec. 3; Gaz. vol. 185; p. 18.
Ickes, L. Z., *et al.*, trustees. (See Converse, Newton B., assignor.)
Ickes, Peter C., Chanute, Kans. Knockdown tank. No. 1,019,255; Mar. 5; Sp. p. 545; Gaz. vol. 176; p. 87.
Iddings, George S. (See Hofbauer, Frank X., assignor.)
Ide, Charles E. (See Johnson, Ivar, assignor.)
Ide, Francis P., assignor to A. L. Ide & Sons, Springfield, Ill. Steam-engine of the Corliss type. No. 1,026,643; May 14; Sp. p. 3404; Gaz. vol. 178; p. 560.
Ide & Sons, A. L. (See Ide, Francis P., assignor.)
Ide, William A., Centralia, Wash. Light for gun-sights. No. 1,044,658; Nov. 19; Gaz. vol. 184; p. 623.
Ideal Coated Paper Co. (See Goodsir, George, Jr., assignor.)
Ideal Concrete Machinery Company. (See Brandell, Claus O., assignor.)
Ideal Development Company. (See Booth, Oscar D., assignor.)
Ideal Disappearing Wall Bed Company, The. (See Hall, Harvey H., assignor.)
Ideal Epworth Acetylene Company, The. (See Benton, Josiah S., assignor.)
Ideal Opening Die Company. (See Oatman, Paul B., assignor.)
Ideal Power Generator Company, The. (See Krohn and Arreagada, assignors.)
Ideal Rock Crusher & Manufacturing Company. (See Phillips, Ross M. G., assignor.)
Ideal Wheel Company, The. (See Strietelmeier, John E., assignor.)
Ielfield, Fred C., assignor to Columbia Postal Supply Company, Silver Creek, N. Y. Mail-marking machine. No. 1,019,158; Mar. 5; Sp. p. 333; Gaz. vol. 176; p. 53.
Ielfield, Fred C., assignor to Columbia Postal Supply Company, Silver Creek, N. Y. Mail-marking machine. No. 1,038,587; Sept. 17; Gaz. vol. 182; p. 543.
Iffert, Charles A., Monroe, Wis. Mail delivering and receiving apparatus. No. 1,022,028; Apr. 2; Sp. p. 589; Gaz. vol. 177; p. 93.
Ifland, William, New York, N. Y. Shade holder or guard for incandescent lamps. No. 1,016,223; Jan. 30; Sp. p. 6833; Gaz. vol. 174; p. 1188.
Ihlder, John D., New York, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Rope-drive elevator. No. 1,016,691; Feb. 6; Sp. p. 1042; Gaz. vol. 175; p. 159.
Ihlder, John D., New York, N. Y., assignor to Otis Elevator Company, East Orange, N. J. Potential switch. No. 1,025,140; May 7; Sp. p. 61; Gaz. vol. 178; p. 11.
Ihlder, John D., New York, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Controlling apparatus for electric motors. No. 1,028,731; June 4; Sp. p. 1421; Gaz. vol. 179; p. 221.
Ihlder, John D., New York, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Elevator control. No. 1,040,546; Oct. 8; Gaz. vol. 183; p. 326.
Ihlder, John D., New York, N. Y., and W. D. Lutz, Allendale, assignors to Otis Elevator Company, Jersey City, N. J. Motor-controlling apparatus. No. 1,040,339; Oct. 8; Gaz. vol. 183; p. 254.
Ihrig, William R., Withers Mills, Mo. Spring-wheel. No. 1,031,269; July 2; Gaz. vol. 180; p. 149.
Ikeda, Kikunae, and S. Suzuki, Tokyo, Japan. Separating glutamic acid and other products of hydrolysis of albuminous substances from one another by electrolysis. No. 1,015,891; Jan. 30; Sp. p. 6161; Gaz. vol. 174; p. 1074.
Ikeda, Kikunae, and S. Suzuki, Tokyo, Japan. Nutritive and flavoring substance and making same. No. 1,035,591; Aug. 13; Gaz. vol. 181; p. 433.
Ikelheimer, Israel E. (See McCloud, Michael J., assignor.)
Ikenberry, Levi D., North Manchester, Ind. Automatic alarm-actuating mechanism. No. 1,018,664; Feb. 27; Sp. p. 5421; Gaz. vol. 175; p. 940.
Iler, Franklin M., Denver, Colo. Disk pulverizer. No. 1,037,772; Sept. 3; Gaz. vol. 182; p. 198.
Iley, William A., R. L. and B. F. Money, Anson, Tex. Combination rail-joint and nut-lock. No. 1,049,098; Dec. 31; Gaz. vol. 185; p. 1278.
Ilg, Robert A., Chicago, Ill. Centrifugal fan or pump. No. 1,017,215; Feb. 13; Sp. p. 2206; Gaz. vol. 175; p. 375.
Ilges, Franz W., Cologne-Bayenthal, Germany. Filing-cabinet. No. 1,045,557; Nov. 26; Gaz. vol. 184; p. 966.
Illingworth, Harry I., Swampscott, assignor to Boston Machine Works Company, Lynn, Mass. Slitting and folding machine. No. 1,033,247; July 23; Gaz. vol. 180; p. 947.
Illingworth, John W., Dorsey, Md. Treating wood. No. 1,025,628; May 7; Sp. p. 1173; Gaz. vol. 178; p. 180.
Illinois Engineering Company. (See Nistle, George W., assignor.)
Illinois Silo Company. (See Morrow, Harry C., assignor.)
Illinois Vending Company. (See Lenz, Rudolph O., assignor.)
Illinois Watch Case Company. (See Zalinsky, Joseph, assignor.)
Illinois Zinc Company. (See Wolff, Eugene H., assignor.)
Illmer Gas Engine Company. (See Illmer, Louis, Jr., assignor.)
Illmer Gas Engine Company. (See Illmer and Kunze, assignors.)
Illmer, Louis, Jr., Cincinnati, Ohio, assignor to Illmer Gas Engine Company. Internal-combustion engine. No. 1,048,698; Dec. 31; Gaz. vol. 185; p. 1140.
Illmer, Louis, Jr., and E. J. Kunze, New York, N. Y., assignors to Illmer Gas Engine Company. Internal-combustion power plant. No. 1,048,697; Dec. 31; Gaz. vol. 185; p. 1140.
Ilse, Frank H., Chicago, Ill. Curtain for vehicles. No. 1,018,498; Feb. 27; Sp. p. 5023; Gaz. vol. 175; p. 884.
Iman, Orla H., assignor, by mesne assignments, to F. Voigtmann, Chicago, Ill., and S. H. Pomeroy, New Rochelle, N. Y. Fireproof window with detachable munnion-bars. No. 1,017,760; Feb. 20; Sp. p. 3330; Gaz. vol. 175; p. 596.
Imboden, Isaac C., Cleona, Pa. Combined mop head and wringer. No. 1,045,032; Nov. 19; Gaz. vol. 184; p. 753.
Imlay, William L., Philadelphia, Pa. Apparatus for recovering gold and silver by use of cyanid solutions. No. 1,014,224; Jan. 9; Sp. p. 2509; Gaz. vol. 174; p. 421.
Imler, Albert E., Kalkaska, Mich. Friction driving mechanism. No. 1,014,152; Jan. 9; Sp. p. 2362; Gaz. vol. 174; p. 394.
Immendorff, Heinrich, and H. Kappen, Jena, Germany. Manufacturing urea. No. 1,048,699; Dec. 31; Gaz. vol. 185; p. 1141.
Imperial Car Shipbuilding and Dry Dock Corporation. (See Leigh, Frederick J., assignor.)
Imperial Machinery Company. (See Valentine and Battee, assignors.)
Imperial Typewriter Company. (See Moya, Hidalgo, assignor.)
"Impragnator" Impragnating Company Limited. (See Polifka and Hacker, assignors.)
Improved Equipment Company, The. (See Laird, Wilbur G., assignor.)
Improved Paper Machinery Company. (See Parker, Howard, assignor.)
Improved Pin Ticket Company. (See St. John, John C., assignor.)
Imrecze, Lajos, *et al.* (See Tözsér, John, assignor.)
Incandescent Light & Stove Company, The. (See Stubbers, Joseph, assignor.)
Indahl, Mauritz C. (See Bancroft and Indahl.)
Independent Electric Mfg. Company. (See Gaulke, William H., assignor.)
Independent Harvester Company. (See Cormack, George, assignor.)
Independent Harvester Company. (See Nichols, Winfield S., assignor.)
Independent Stove Company, The. (See Robinson, William V., assignor.)
Indiana Die Casting Development Company, The. (See Parkhurst, Layton M., assignor.)
Indiana Manufacturing Company, The. (See Seburn, Harvey T., assignor.)
Indiana Manufacturing Company, The. (See Sharpe, Joseph K., Jr., assignor.)
Indianapolis Gas Engine Company. (See Carmichael, Ray, assignor.)
Indorante, Gaetano, Kankakee, Ill. Balancing aeroplane. No. 1,047,641; Dec. 17; Gaz. vol. 185; p. 712.
Industrial Instrument Company, The. (See Bristol, Edgar H., assignor.)
Ingalls, Edwin M., Newburyport, Mass. Supporting device for automobiles. No. 1,032,607; July 16; Gaz. vol. 180; p. 689.
Ingalls, Willis A., Cleveland, Ohio. Knitting-machine. No. 1,025,470; May 7; Sp. p. 812; Gaz. vol. 178; p. 126.
Ingbretson, Albert. (See Madson, Christenson, Ingbretson, and Nowship.)
Inge, Benjamin F., Roanoke, Va. Socket for connecting package-tiers. No. 1,030,661; June 25; Sp. p. 5868; Gaz. vol. 179; p. 1003.
Ingerham, Alphonso C., Greenville, Mich. Wrench. No. 1,040,982; Oct. 8; Gaz. vol. 183; p. 475.
Ingersoll, John W., Jr., Belmont, Wis. Gate. No. 1,023,153; Apr. 16; Sp. p. 3031; Gaz. vol. 177; p. 544.
Ingersoll Milling Machine Company, The. (See Smith, George W., assignor.)
Ingersoll-Rand Company. (See Banner, Otto, assignor.)
Ingersoll-Rand Company. (See Hansen, Charles C., assignor.)
Ingersoll-Rand Company. (See Prellwitz, William, assignor.)
Ingham, Lucy B., Wilkes-Barre, Pa. Milk-jar opener. No. 1,042,680; Oct. 29; Gaz. vol. 183; p. 1148.
Ingham, William R., Tucson, Ariz. Device for developing photographic films. No. 1,033,772; July 23; Gaz. vol. 180; p. 1117.
Ingles, Edwin F. (See Boden and Ingles.)
Inglis, Frank W. (See McCarty and Harness, assignors.)
Inglish, Daniel M., Goodwin, Okla. Animal-poke. No. 1,042,116; Oct. 22; Gaz. vol. 183; p. 926.

Alphabetical list of patentees—Continued.

Ingman, Wallace M., Pueblo, Colo. Hospital appliance. No. 1,047,231; Dec. 17; Gaz. vol. 185; p. 566.
Ingoldsby Automatic Car Company, The. (See Bowling, Joseph R., assignor.)
Ingoldsby Automatic Car Company, The. (See Ingoldsby, Frank S., assignor.)
Ingoldsby Automatic Car Company, The. (See Ingoldsby and Bowling, assignors.)
Ingoldsby, Frank S., St. Louis, Mo. Automatic sampling mechanism. No. 1,024,134; Apr. 23; Sp. p. 5093; Gaz. vol. 177; p. 896.
Ingoldsby, Frank S., St. Louis, Mo. Self-cleaning bin. No. 1,031,120; July 2; Gaz. vol. 180; p. 96.
Ingoldsby, Frank S., assignor to The Ingoldsby Automatic Car Company, St. Louis, Mo. Dump-car. No. 1,013,552; Jan. 2; Sp. p. 1005; Gaz. vol. 174; p. 161.
Ingoldsby, Frank S., assignor to The Ingoldsby Automatic Car Company, St. Louis, Mo. Dump-car. No. 1,026,397; May 14; Sp. p. 2885; Gaz. vol. 178; p. 479.
Ingoldsby, Frank S., assignor to The Ingoldsby Automatic Car Company, St. Louis, Mo. Dump-car. No. 1,027,849; May 28; Sp. p. 6054; Gaz. vol. 178; p. 1045.
Ingoldsby, Frank S., assignor to The Ingoldsby Automatic Car Company, St. Louis, Mo. Dump-car. No. 1,027,850; May 28; Sp. p. 6059; Gaz. vol. 178; p. 1046.
Ingoldsby, Frank S., assignor to The Ingoldsby Automatic Car Company, St. Louis, Mo. Dump-car. No. 1,028,116; June 4; Sp. p. 44; Gaz. vol. 179; p. 11.
Ingoldsby, Frank S., assignor to The Ingoldsby Automatic Car Company, St. Louis, Mo. Dump-car. No. 1,028,882; June 11; Sp. p. 1760; Gaz. vol. 179; p. 308.
Ingoldsby, Frank S., St. Louis, Mo., assignor to The Ingoldsby Automatic Car Company, Cleveland, Ohio. Dump-car. No. 1,046,191; Dec. 3; Gaz. vol. 185; p. 135.
Ingoldsby, Frank S., assignor to The Ingoldsby Automatic Car Company, St. Louis, Mo. Dump-car. No. 1,048,312; Dec. 24; Gaz. vol. 185; p. 968.
Ingoldsby, Frank S., and J. R. Bowling, assignors to The Ingoldsby Automatic Car Company, St. Louis, Mo. Dump-car. No. 1,027,851; May 28; Sp. p. 6065; Gaz. vol. 178; p. 1046.
Ingraham, Alexander, assignor to Willford Manufacturing Company, Minneapolis, Minn. Feed-mill. No. 1,027,206; May 21; Sp. p. 4708; Gaz. vol. 178; p. 790.
Ingraham Co., The. (See Stockton, Elmer E., assignor.)
Ingram, Atkin M., assignor of one-half to W. J. Gardner, Montgomery, Ala. Check-valve. No. 1,039,749; Oct. 1; Gaz. vol. 183; p. 27.
Ingram, Horace G., Juniata, assignor of one-half to S. Goldberg, Altoona, Pa. Cherry-seeder. No. 1,039,750; Oct 1; Gaz. vol. 183; p. 27.
Ingram, Horace G., Juniata, assignor of one-half to S. Goldberg, Altoona, Pa. Screw-driver. No. 1,039,751; Oct. 1; Gaz. vol. 183; p. 27.
Ingram, Horace G., Juniata, and H. R. Derickson, assignors of one-third to S. Goldberg, Altoona, Pa. Refractometer. No. 1,045,148; Nov. 26; Gaz. vol. 184; p. 821.
Ingram, Ralph B., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Lightning-arrester. No. 1,013,166; Jan. 2; Sp. p. 158; Gaz. vol. 174; p. 27.
Ingram, Ralph B., Wilkinsburg, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Mercury-converter. No. 1,015,958; Jan. 30; Sp. p. 6302; Gaz. vol. 174; p. 1096.
Ingram, Ralph O., *et al.* (See Miller, Alfred K., assignor.)
Ingram, Wesley E., Austin, Nev. Blasting-fuse and cap. No. 1,025,065; Apr. 30; Sp. p. 7113; Gaz. vol. 177; p. 1250.
Inhülsen, Bernhard, assignor of one-half to R. Abels, Rüstringen, Germany. Rotary pump. No. 1,046,791; Dec. 10; Gaz. vol. 185; p. 387.
Inman, Clair L., Seneca, Nebr. Railway-tie and clamp. No. 1,030,407; June 25; Sp. p. 5112; Gaz. vol. 179; p. 912.
Inman, Gilbert H., Camden, N. J. Safety device for elevators. No. 1,016,014; Jan. 30; Sp. p. 6422; Gaz. vol. 174; p. 1118.
Inman, Gilbert H., assignor of one-fourth to J. T. Stack, Brockton, Mass. False-alarm detector for fire-alarm systems. No. 1,018,564; Feb. 27; Sp. p. 5222; Gaz. vol. 175; p. 908.
Inman, Harry A., Amsterdam, N. Y. Pasting-machine. No. 1,036,851; Aug. 27; Gaz. vol. 181; p. 934.
Inman, Harry A., Amsterdam, N. Y. Machine for forming and bailing paper pails. No. 1.038,145; Sept. 10; Gaz. vol. 182; p. 357.
Inman, Horace, Amsterdam, N. Y. Paper-feeding mechanism for paper-box machines. No. 1,030,183; June 18; Sp. p. 4598; Gaz. vol. 179; p. 792.
Innes, Alfred G. (See Rintoul and Innes.)
Innes, William R. D., South Melbourne, Victoria, Australia. Railway-sleeper. No. 1,047,062; Dec. 10; Gaz. vol. 185; p. 475.
Innis, George C., assignor to W. H. Kimball, Boston, Mass. Automatic gas lighter and extinguisher. No. 1,019,159; Mar. 5; Sp. p. 337; Gaz. vol. 176; p. 53.
Insley Manufacturing Company. (See Insley, William H., assignor.)
Insley, William H., assignor to Insley Manufacturing Company, Indianapolis, Ind. Contractor's elevator. No. 1,019,327; Mar. 5; Sp. p. 723; Gaz. vol. 176; p. 112.
Intercontinental Rubber Company. (See Blaine, William S., assignor.)
Interlocking Fence Company. (See Claudin, John L., assignor.)
International Acheson Graphite Company. (See Smith, William A., assignor.)
International Acheson Graphite Company. (See Speiden, Eben C., assignor.)
International Acheson Graphite Company. (See Sprague and Williamson, assignors.)
International Acheson Graphite Company. (See Wescott, George F., assignor.)
International Acheson Graphite Company. (See Williamson, Arthur M., assignor.)
International Aeronautical Construction Company. (See Vaniman, Melvin, assignor.)
International Agricultural Corporation. (See Peacock, Benjamin, assignor.)
International Automatic Signal Company. (See Burgess, Yorke, assignor.)
International Blank Book Company. (See Thomas, George W., assignor.)
International Concentrator Company. (See Kidney, Alfred H., assignor.)
International Concrete Piling Co. (See Davis, Alfred H., assignor.)
International Conformer Company. (See McKinless, James R., assignor.)
International Cork Company, The. (See Alberti, John, assignor.)
International Cork Company. (See Bogdánffy, Alexander, assignor.)
International Corporation of Modern Improvements. (See Lewen, Henry L., assignor.)
International Corset Company. (See Schopbach, Charles H., assignor.)
International Excavator Company, The. (See Allen, Frederick E., assignor.)
International Gymnasium Supply Company. (See Reach, Robert, assignor.)
International Harvester Company. (See Benjamin, Bert R., assignor.)
International Harvester Company. (See Dangel and Benjamin, assignors.)
International Harvester Company. (See Dennis, Samuel K., assignor.)
International Harvester Company. (See Dennis and Holsey, assignors.)
International Harvester Company. (See Grieves, Albert, assignor).
International Harvester Company. (See Gronke, Barney, assignor.)
International Harvester Company. (See Holland-Letz, Lud, assignor.)
International Harvester Company. (See Johnson, Arthur, assignor.)
International Harvester Company. (See Larson, James C., assignor.)
International Harvester Company. (See Merwin, George M., assignor.)
International Harvester Company. (See Pearson, Charles, assignor.)
International Harvester Company. (See Schutt, Duny A., assignor.)
International Harvester Company. (See Sharp, James A., assignor.)
International Harvester Company. (See Turner and Heath, assignors.)
International Harvester Company. (See Willis, George W., assignor.)
International Lead Company. (See Bailey, John W., assignor.)
International Machine Corporation. (See McConnell, William H., assignor.)
International Machine Corporation. (See Wood, James N., assignor.)
International Mail Equipment Co. (See Lanier, James S., assignor.)
International Manufacturing Company. (See King, William C., assignor.)
International Manufacturing & Mining Co. (See Westerfield, Newton C., assignor.)
International Metal Products Company. (See Carnahan, Robert B., Jr., assignor.)
International Metallurgical Company. (See Baxeres de Alzugaray, José, assignor.)
International Monorail Co. (See Barnes, Pierre, assignor.)
International Packing Machine Company. (See Lev, Frank W., assignor.)
International Pavement Company, The. (See Whitney, George E., assignor.)
International Pneumatic Wheel Company. (See Dennis, James M. and R. R., assignors.)
International Postal Supply Company of New York, The. (See Jahn, Frederick G., assignor.)
International Poultry Sales Company. (See Thomson, Thomas N., assignor.)

Alphabetical list of patentees—Continued.

International Precipitating Company. (See Cottrell and Burns, assignors.)
International Precipitation Company. (See Cottrell, Frederick G., assignor.)
International Refrigerating Insulator Syndicate Limited. (See Bost, William D. A., assignor.)
International Rotations-Maschinen-Gesellschaft m. b. H. (See Lehne, Josef, assignor.)
International Signal Company, The. (See Webb, Jean F., Jr., assignor.)
International Specialty Company. (See Byrne, Matthew, assignor.)
International Steam Pump Company. (See Fleming, Wills M., assignor.)
International Steam Pump Company. (See Jennings, Arthur B., assignor.)
International Steam Pump Company. (See Scott, Clarence N., assignor.)
International Steel. (See Kohlhaas, Friedrich, assignor.) (Reissue.)
International Taxameter Company of America. (See Decker, Alonzo G., assignor.)
International Text Book Company. (See Griffin, Edwin F., assignor.)
International Text Book Company. (See Jones and Tanner, assignors.)
International Time Recording Company of New York. (See Blair, Robert S., assignor.)
International Typesetting Machine Company. (See Barber, Ernest B., assignor.)
International Voting Machine Company. (See Swaren, William A., assignor.)
International "Z" Electric Lamp Association Limited, The. (See Zerning, Hermann, assignor.)
Internationale Rotations-Maschinen-Gesellschaft M. B. H. (See Lehne, Joseph, assignor.)
Internationale Wasserstoff Aktiengesellschaft. (See Lane, Howard, assignor.)
Interstate Realty & Construction Company. (See Haga, Claude H., assignor.)
Interstate Roofing & Foundry Company. (See Hardin, Joseph A., assignor.)
Interwoven Mills, The. (See Kilbourn, Edward E., assignor.)
Intrup, Charles A., Wilburn, Va. Plow. No. 1,025,066; Apr. 30; Sp. p. 7115; Gaz. vol. 177; p. 1250.
Inventors Development Co. (See Manley, Thulin, and Smith, assignors.)
Inventors Development Company. (See Embree, Clayton J., assignor.)
Inventors Development Company, The. (See Manley, John C., assignor.)
Inventors' Union Company. (See Jackson, Frank A., assignor.)
Iochum, Gabriel, assignor of one-half to L. J. Guitard, Paris, France. Rotary explosive-engine. No. 1,033,701; July 23; Gaz. vol. 180; p. 1095.
Ion, Thomas, Westmount, Quebec, Canada. Material-spreader. No. 1,026,092; May 14; Sp. p. 2223; Gaz. vol. 178; p. 375.
Iowa Gate Company. (See Clay, Henry H., assignor.)
Iowa Windmill & Pump Company. (See Brown, James A., assignor.)
Ippers, John W., New York, assignor of one-half to C. A. Roessel, Brooklyn, N. Y. Machine for making metallic printing-rollers. No. 1,046,792; Dec. 10; Gaz. vol. 185; p. 387.
Ipson Indicator Company. (See Tucker, John R., assignor.)
Irby, Wiley R., assignor of one-half to J. Moulder, West Middleton, Ind. Fruit-gatherer's and painter's ladder. No. 1,014,063; Jan. 9; Sp. p. 2179; Gaz. vol. 174; p. 365.
Irelan, Alfred E., assignor to Philadelphia Metallic Bed Company, Philadelphia, Pa. Convertible bed. No. 1,043,772; Nov. 5; Gaz. vol. 184; p. 255.
Ireland, Ernest E. (See Rutledge and Ireland.)
Ireland, James E. (See Price, Waldow P., assignor.)
Ireland, Morris B., New York, N. Y. Clutch. No. 1,014,826; Jan. 16; Sp. p. 3871; Gaz. vol. 174; p. 657.
Irey, James H., Pelican Rapids, Minn. Mower-sickle grinder. No. 1,019,649; Mar. 5; Sp. p. 1414; Gaz. vol. 176; p. 217.
Irey, William S., Mexico, Philippine Islands. Cigarette-machine. No. 1,016,410; Feb. 6; Sp. p. 387; Gaz. vol. 175; p. 61.
Iring, Adalbert, Czernowitz, Austria-Hungary. Wrench. No. 1,028,883; June 11; Sp. p. 1765; Gaz. vol. 179; p. 308.
Iring, William, New York, N. Y. Rail-fastening. No. 1,022,786; Apr. 9; Sp. p. 2219; Gaz. vol. 177; p. 380.
Iring, William, New York, N. Y. Railway-tie. No. 1,029,195; June 11; Sp. p. 2433; Gaz. vol. 179; p. 414.
Irish, William F., Denville, N. J. Electrical outlet-box. No. 1,029,611; June 18; Sp. p. 3341; Gaz. vol. 179; p. 595.
Irons, Archie E., Pittsburgh, Pa. Seal. No. 1,037,010; Aug. 27; Gaz. vol. 181; p. 987.
Irons, Archie E., Pittsburgh, Pa. Sealing device. No. 1,038,373; Sept. 10; Gaz. vol. 182; p. 434.
Irons, William E., Wilsoncreek, Wash. Car-wheel clamp. No. 1,016,154; Jan. 30; Sp. p. 6707; Gaz. vol. 174; p. 1165.
Ironside, Matthew C., assignor of two-ninths to J. Cummings, Kansas City, Kans., two-ninths to P. J. Horan and two-ninths to D. McDonnell, Kansas City, Mo. Car-coupling. No. 1,021,103; Mar. 26; Sp. p. 4441; Gaz. vol. 176; p. 822.
Irvin, James H., Baltimore, Md. Paper-clip. No. 1,019,256; Mar. 5; Sp. p. 548; Gaz. vol. 176; p. 87.
Irvin, Johnson, Coraopolis, Pa. Steering apparatus for vessels. No. 1,037,011; Aug. 27; Gaz. vol. 181; p. 987.
Irvin, Lesley B., Henegar, Ala. Trace-connector. No. 1,014,709; Jan. 16; Sp. p. 3601; Gaz. vol. 174; p. 617.
Irvine, William H. (See Kilburn, Fairley, Kidner, Irvine, and Chestnut.)
Irving, Adam H., Spokane, Wash. Saw tension device for band-saw mills. No. 1,037,916; Sept. 10; Gaz. vol. 182; p. 281.
Irving, Henry. (See King and Irving.)
Irving Iron Works. (See Keller, Gustav A., assignor.)
Irving, James A., New York, N. Y. Propeller. No. 1,022,846; Apr. 9; Sp. p. 2343; Gaz. vol. 177; p. 400.
Irving, John G. (See Skvor and Irving.)
Irving, Joseph, Salt Lake City, Utah. Treatment of ores. No. 1,048,541; Dec. 31; Gaz. vol. 185; p. 1084.
Irving, Joseph H., and M. Pedersen, Kenosha, Wis. Hose-coupling. No. 1,047,063; Dec. 10; Gaz. vol. 185; p. 475.
Irving-Pitt Manufacturing Company. (See Pitt, William P., assignor.)
Irwin, Chester G., Ardmore, Pa. Bottle-holder. No. 1,014,004; Jan. 9; Sp. p. 2048; Gaz. vol. 174; p. 345.
Irwin, Frank L., assignor to The Ralston Steel Car Company, Columbus, Ohio. Dump-car. No. 1,028,941; June 11; Sp. p. 1899; Gaz. vol. 179; p. 328.
Irwin, George H., J. P. Cullon, and F. Knowlson, Lindsay, Ontario, Canada. Fluid-pump. No. 1,025,067; Apr. 30; Sp. p. 7116; Gaz. vol. 177; p. 1250.
Irwin, Guy. (See Clark and Irwin.)
Irwin, Harmon L., Columbus Grove, Ohio. Hose and pipe coupling. No. 1,044,183; Nov. 12; Gaz. vol. 184; p. 427.
Irwin, Harold, Tikokino, New Zealand. Grass-cutter for cutting edges of lawns and the like. No. 1,026,985; May 21; Sp. p. 4196; Gaz. vol. 178; p. 716.
Irwin, Harry R., Fort Thomas, Ky. Water-motor. No. 1,036,630; Aug. 27; Gaz. vol. 181; p. 860.
Irwin, James, San Francisco, Cal. Releasing device. No. 1,030,586; June 25; Sp. p. 5614; Gaz. vol. 179; p. 975.
Irwin, James W. (See King and Irwin.)
Irwin, Joseph G., Oklahoma, Okla. Machine for grinding balls. No. 1,042,794; Oct. 29; Gaz. vol. 183; p. 1188.
Irvin, Thomas H., assignor of one-half to J. H. Quarles, College Station, Tex. Locking device for forms. No. 1,036,629; Aug. 27; Gaz. vol. 181; p. 860.
Irwin, Wiley I., Sulphur Springs, Tex. Can-soldering machine. No. 1,043,317; Nov. 5; Gaz. vol. 184; p. 98.
Isaacs, Isaac C., Baltimore, Md. Belt-support. No. 1,043,522; Nov. 5; Gaz. vol. 184; p. 171.
Isaacs, Isaac C., and A. H. Likes, Baltimore, Md. Belt-support for garments. No. 1,035,013; Aug. 6; Gaz. vol. 181; p. 204.
Isaacs, Louis, Louisville, Ky. Track-cleaner. No. 1,016,411; Feb. 6; Sp. p. 393; Gaz. vol. 175; p. 62.
Isaacs, Louis, Louisville, Ky. Suction apparatus. No. 1,031,005; July 2; Gaz. vol. 180; p. 54.
Isaacson, Rupert J., Leeds, England. Mounting of aerial propellers. No. 1,027,252; May 21; Sp. p. 4791; Gaz. vol. 178; p. 807.
Isaksen, Robert. (See Marshall and Isaksen.)
Isbell, John, Washington, Mo. Railway chair and plate. No. 1,037,483; Sept. 3; Gaz. vol. 182; p. 105.
Isbell, John F., assignor to The Galigher Machinery Co., Salt Lake City, Utah. Head-motion for ore-concentrators. No. 1,019,650; Mar. 5; Sp. p. 1416; Gaz. vol. 176; p. 218.
Isberg, Jacob W., West Allis, Wis. Rope-clamp. No. 1,026,587; May 14; Sp. p. 3270; Gaz. vol. 178; p. 540.
Iseli, Nicklaus W., Milo, Ohio. Fluid-pressure-actuated hammer. No. 1,042,442; Oct. 29; Gaz. vol. 183; p. 1064.
Isenhour, Luther J., Indianapolis, Ind. Incubator and brooder. No. 1,048,313; Dec. 24; Gaz. vol. 185; p. 968.
Isham, Andrew J., Sevierville, Tenn. Reel. No. 1,021,606; Mar. 26; Sp. p. 5538; Gaz. vol. 176; p. 994.
Isham, Asa C., Madisonville, Ohio. Feather duster. No. 1,033,898; July 30; Gaz. vol. 180; p. 1190.
Isherwood, Arthur, Hyde Park, Mass., assignor to T. Kenyon, Manchester, England. Stripping means for machines for stitching together piece ends. No. 1,049,304; Dec. 31; Gaz. vol. 185; p. 1347.
Isherwood, Joseph W., Middlesbrough, England. Construction of floating vessels. No. 1,029,546; June 11; Sp. p. 3194; Gaz. vol. 179; p. 536.
Isherwood, Percy C. C., Leytonstone, England, assignor to Refractory Zinc Ore Treatment Company. Filtering apparatus. No. 1,043,939; Nov. 12; Gaz. vol. 184; p. 345.
Ishigami, Toru, Osaka, Japan. Tuberculo-toxoidin. No. 1,020,761; Mar. 19; Sp. p. 3742; Gaz. vol. 176; p. 656.

Alphabetical list of patentees—Continued.

Isler, Max, Mannheim, assignor to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Anthraquinone vat dyes and making them. No. 1,032,215; July 9; Gaz. vol. 180; p. 512.
Isler, Max, Mannheim, assignor to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Anthraquinone vat dyes and making them. No. 1,032,216; July 9; Gaz. vol. 180; p. 513.
Isler, Max H., Mannheim, assignor to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Anthracene dyes and making same. No. 1,026,588; May 14; Sp. p. 3271; Gaz. vol. 178; p. 541.
Isler, Max H., Mannheim, assignor to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Anthracene dyes and making same. No. 1,047,812; Dec. 17; Gaz. vol. 185; p. 772.
Isler, Max H., Mannheim, assignor to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. 1.1'-dianthraquinonyl-2.2'-dialdehyde bodies and making such compounds. No. 1,047,813; Dec. 17; Gaz. vol. 185; p. 773.
Isley, George H. (See Jefferies and Isley.)
Islin, John A., Newport News, Va. Riddle. No. 1,030,241; June 18; Sp. p. 4724; Gaz. vol. 179; p. 813.
Isner, Jacques A., New York, N. Y. Theater-stage. No. 1,018,499; Feb. 27; Sp. p. 5025; Gaz. vol. 175; p. 884.
Israel, Israel Z., assignor to S. M. Israel, New York, N. Y. Machine for baking wafers and the like. No. 1,016,749; Feb. 6; Sp. p. 1149; Gaz. vol. 175; p. 178.
Israel, Sidney M. (See Israel, Israel Z., assignor.)
Itschner, Robert, Stäfa, Switzerland. Hone. No. 1,032,908; July 16; Gaz. vol. 180; p. 793.
Itzweire, Gustave, *et al.* (See Lord, Peter, assignor.)
Ivarson, John F., Boston, Mass. Device for cutting threads and other lathe-work. No. 1,029,014; June 11; Sp. p. 2061; Gaz. vol. 179; p. 354.
Ivatt, Henry A., Doncaster, England. Crank-shaft for steam-engines. No. 1,016,504; Feb. 6; Sp. p. 617; Gaz. vol. 175; p. 94.
Ivatts, Ernest A., assignor to Compagnie Generale de Phonographes, Cinematographes et Appareils de Precision, Paris, France. Registering device for kinematographs. No. 1,018,827; Feb. 27; Sp. p. 5775; Gaz. vol. 175; p. 997.
Ivatts, Ernest A., assignor to Society Compagnie Generale De Phonographes, Cinematographes Et Appareils De Precision, Paris, France. Lens-diaphragm-controlling device for kinematographic apparatus. No. 1,029,997; June 18; Sp. p. 4199; Gaz. vol. 179; p. 728.
Ivatts, Ernest A., assignor to Compagnie Generale de Phonographes, Cinematographes et Appareils de Precision, Paris, France. Electric stencil-cutting machine. No. 1,034,620; Aug. 6; Gaz. vol. 181; p. 72.
Ivers, Chris J., Rushmore, Minn. Nut-lock. No. 1,047,064; Dec. 10; Gaz. vol. 185; p. 475.
Iversen, Lorenz, West Homestead, assignor to Mesta Machine Company, Pittsburgh, Pa. Steam hydraulic press. No. 1,028,356; June 4; Sp. p. 645; Gaz. vol. 179; p. 97.
Iverson, Eldor J. (See Gale and Iverson.)
Iverson, Michael S., New York, N. Y. Apparatus for coaling ships. No. 1,038,588; Sept. 17; Gaz. vol. 182; p. 544.
Iverson, Ole N., Hills, Minn. Trolley-head. No. 1,048,314; Dec. 24; Gaz. vol. 185; p. 968.
Iverson, William H., Taylors Falls, Minn., and O. E. Rooth, St. Croix Falls, Wis. Bag-holder. No. 1,014,225; Jan. 9; Sp. p. 2514; Gaz. vol. 174; p. 422.
Ivery, Sidney H., St. Louis, Mo. Rotary explosive-engine. No. 1,047,232; Dec. 17; Gaz. vol. 185; p. 567.
Ives, Friend A., assignor to The Connecticut Metal Boiler Cleaner Company, New Haven, Conn. Container for metal boiler-cleaners. No. 1,034,711; Aug. 6; Gaz. vol. 181; p. 104.
Ives Manufacturing Company, The. (See Hotchkiss, Charles A., assignor.)
Ives Manufacturing Corporation, The. (See Viall, William G., assignor.)
Iveson, Edward H., Cohoes, N. Y. Wrench. No. 1,018,321; Feb. 20; Sp. p. 4608; Gaz. vol. 175; p. 791.
Iveson, Edward H., Cohoes, N. Y. Ticket-holder. No. 1,025,272; May 7; Sp. p. 356; Gaz. vol. 178; p. 58.
Ivey, George F., Hickory, N. C. Machine for bending lug-straps. No. 1,042,921; Oct. 29; Gaz. vol. 183; p. 1231.
Ivey, Romulus L., assignor to The Consolidated Grocery Co., Jacksonville, Fla. Shade-streak hack. No. 1,045,105; Nov. 19; Gaz. vol. 184; p. 778.
Ivor, Barry, Chicago, Ill. Strainer and water-separator for gasolene-supply. No. 1,019,161; Mar. 5; Sp. p. 344; Gaz. vol. 176; p. 54.
Ivor, Barry, assignor of one-sixth to J. D. Gazzolo, one-sixth to H. Q. Turner, one-sixth to J. D. Hartford, one-sixth to F. Freer, and one-sixth to H. R. McPherson, Chicago, Ill. Carbureter. No. 1,019,160; Mar. 5; Sp. p. 339; Gaz. vol. 176; p. 53.
Ivor, Barry, assignor of one-sixth to J. D. Gazzolo, one-sixth to H. Q. Turner, one-sixth to J. D. Hartford, one-sixth to F. Freer, and one-sixth to H. R. McPherson, Chicago, Ill. Carbureter. No. 1,042,004; Oct. 22; Gaz. vol. 183; p. 889.
Ivory, James W., Philadelphia, Pa. Dental hand porte-polisher. No. 1,021,527; Mar. 26; Sp. p. 5385; Gaz. vol. 176; p. 969.
Ivory, James W., Philadelphia, Pa. Fastening for artificial-tooth crowns. No. 1,021,528; Mar. 26; Sp. p. 5386; Gaz. vol. 176; p. 969.
Ivory, James W., Philadelphia, Pa. Dental cervical-margin clamp. No. 1,032,833; July 16; Gaz. vol. 180; p. 769.
Ivory, James W., Philadelphia, Pa. Tooth-separator. No. 1,048,972; Dec. 31; Gaz. vol. 185; p. 1233.
J. Geo. Leyner Engineering Works Company, The. (See Leyner, John G., assignor.)
J. Stevens Arms & Tool Company. (See Lewis, George S., assignor.)
J. Stone & Company Limited. (See Darker, Alfred H., assignor.)
J. Stone & Company Limited. (See Pike and Neville, assignors.)
J. A. Fay & Egan Company. (See Hanhart, Louis J., assignor.)
J. A. Fay & Egan Company. (See Reed, Jerry M., assignor.)
J. A. Fay & Egan Company. (See Solem, Peter A., assignor.)
J. A. Fay & Egan Company. (See Williams, William S., assignor.)
J. B. King and Company. (See King, George R., assignor.)
J. B. Stone Co. (See Conn, Joseph C., assignor.)
J. B. Stone Co. (See Diamond, James K., assignor.)
J. B. Williams Company. (See Williams, Philip K., assignor.)
J. C. Blair Company. (See Africa and McSheehy, assignors.)
J. C. Blair Specialty Company. (See Ellis, William V., assignor.)
J. & C. G. Bolinders Mek. Verkstads Aktiebolag. (See Bursie, Herman, assignor.)
J. & C. G. Bolinders Mekaniska Verktads Aktiebolag. (See Tenow and Andersson, assignors.)
J. E. Mergott Company, The. (See Fisher, Abraham C., assignor.)
J. E. Mergott Company, The. (See Fuller, Franz A., assignor.)
J. E. Mergott Company, The. (See Hiering and Fuller, assignors.)
J. E. Mergott Company. (See Waibel, Frederick B., assignor.)
J. F. Sturdy's Sons Co. (See Exlund, Alexander, assignor.)
J. G. Brill Company, The. (See Adams, Walter S., assignor.)
J. G. Brill Company, The. (See Bucknam, Ezra S., assignor.)
J. G. Brill Company, The. (See Curwen and Smith, assignors.)
J. G. Brill Company, The. (See Howson, Henry, assignor.)
J. G. Brill Company, The. (See Kling, Louis A., assignor.)
J. G. Brill Company, The. (See Kohler, George B., assignor.)
J. G. Brill Company. (See Pearson, Henry, assignor.)
J. G. Jackson. (See Jackson, James G., assignor.)
J. H. Bunnell & Company. (See Ramsay, Robert L., assignor.)
J. H. Ladew Company, The. (See Lockwood, Frederick J., assignor.)
J. H. Williams & Co. (See Amborn, George, assignor.)
J. I. Case Plow Works. (See Michael, Clement W., assignor.)
J. I. Case Plow Works. (See Sobey, William, assignor.)
J. I. Case Threshing Machine Company. (See Davies, David P., assignor.)
J. K. Rishel Furniture Co. (See Strouse and Clark, assignors.)
J. L. Bondy Iron Works Co. (See Kleinmark, Henry, assignor.)
J. L. Mott Iron Works, The. (See Bryon, Robert H., assignor.)
J. L. Schureman Co. (See Anderson, Carl J., assignor.)
J. L. Schureman Co. (See Schureman, Jacob L., assignor.)
J. L. Sommer Manufacturing Co. (See Sommer, John L., assignor.)
J. M. Dodge Company, The. (See Johnston, Arthur C., assignor.)
J. M. Kohler Sons Company. (See Brotz, Anton, assignor.)
J. M. Robinson Manufacturing Company, The. (See Frey, Clarence N., assignor.)
J. M. Shock Absorber Company, The. (See Jacquet, Louis P. C. J., assignor.)
J. P. Karns Tunneling Machine Co. (See Karns, John P., assignor.)
J. P. Seeburg Piano Company. (See Nelson, Oscar, assignor.)
J. P. Seeburg Piano Company. (See Wiggin, Peter, assignor.)
J. Q. Clarke Tank Co., The. (See Clarke, John Q., assignor.)
J. & T. H. Wallis. (See Wallis, James, assignor.)
J. W. Reedy Elevator Manufacturing Co. (See Forslund, Hugo W., assignor.)

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Jablesnik, Louis C., Bergenfield, N. J., assignor to Belding and Franklin Machine Company, New York, N. Y. Abradant compound. No. 1,034,712; Aug. 6; Gaz. vol. 181; p. 104.
Jaburg, Firm of John and H. (See Biggs, Edward, assignor.)
Jaccard, Gustave J., New York, N. Y. Game. No. 1,022,847; Apr. 9; Sp. p. 2345; Gaz. vol. 177; p. 401.
Jack, Alexander M., Sheffield, England. Portable air-withdrawing or vacuum-producing apparatus. No. 1,016,830; Feb. 6; Sp. p. 1324; Gaz. vol. 175; p. 204.
Jack, Gilbert N. (See Arndt and Jack.)
Jack, Greville K. F., Clifton, Colo. Horse-hitching device. No. 1,038,894; Sept. 17; Gaz. vol. 182; p. 651.
Jack, Joe F., Los Angeles, Cal. Curing apparatus. No. 1,013,600; Jan. 2; Sp. p. 1100; Gaz. vol. 174; p. 177.
Jack, Louis, Moylan, Pa. Adjustable form for smoke-chamber construction for chimneys having open fireplaces. No. 1,021,985; Apr. 2; Sp. p. 501; Gaz. vol. 177; p. 80.
Jäckle, Bartholomäus, Locherhof, Germany. Fastener for blind-slats. No. 1,039,291; Sept. 24; Gaz. vol. 182; p. 803.
Jackman, Roy, Cedar Rapids, Iowa. Wire-splicer. No. 1,032,909; July 16; Gaz. vol. 180; p. 793.
Jackson, Alfred, Philadelphia, Pa. Candy-cutting machine. No. 1,019,793; Mar. 12; Sp. p. 1699; Gaz. vol. 176; p. 296.
Jackson, Andrew, Leadville, Colo. Bread-slicer. No. 1,033,406; July 23; Gaz. vol. 180; p. 1000.
Jackson, Andrew J., assignor of one-tenth to N. V. Christensen, Chicago, Ill. Reciprocating engine. No. 1,024,581; Apr. 30; Sp. p. 6122; Gaz. vol. 177; p. 1083.
Jackson, Andrew L., Fort Worth, Tex. Cotton-harvesting machine. No. 1,014,880; Jan. 16; Sp. p. 3998; Gaz. vol. 174; p. 676.
Jackson, Andrew S., Baltimore, Md., assignor to American Can Company, New York, N. Y. Sheet-metal oyster display and icing can or box. No. 1,036,631; Aug. 27; Gaz. vol. 181; p, 861.
Jackson, Charles A., New York, N. Y., assignor of one-half to The Pelton Water Wheel Company, San Francisco, Cal. Water-wheel safety-stop. No. 1,042,681; Oct. 29; Gaz. vol. 183; p. 1148.
Jackson, Charles E. (See Sexton and Jackson.)
Jackson, Charles J., Vineland, N. J. Vise. No. 1,024,728; Apr. 30; Sp. p. 6439; Gaz. vol. 177; p. 1135.
Jackson, Clarence S., assignor to Pouring Cork Company, New York, N. Y. Dripless pouring-bottle seal. No. 1,027,544; May 28; Sp. p. 5387; Gaz. vol. 178; p. 944.
Jackson Cushion Edge Company. (See Smith and Hampton, assignors.)
Jackson Fence Company. (See Mills, Anson C., assignor.)
Jackson, Frank A., Garland, Ark., assignor of one-half to Inventors' Union Company. Automatic coal-feeding mechanism for locomotive and other fire-boxes. No. 1,018,421; Feb. 27; Sp. p. 4846; Gaz. vol. 175; p. 858.
Jackson, Frederick H. (See Bailey and Jackson.)
Jackson, George A., Newton, assignor to M. McCabe, Boston, Mass. Mechanically-operated fan. No. 1,037,258; Sept. 3; Gaz. vol. 182; p. 28.
Jackson, George B., Los Angeles, Cal. Knife-sharpening device. No. 1,032,910; July 16; Gaz. vol. 180; p. 793.
Jackson, George B., Los Angeles, Cal. Shaft-collar. No. 1,045,980; Dec. 3; Gaz. vol. 185; p. 63.
Jackson, George B., Westminster, Md. Fusee. No. 1,045,033; Nov. 19; Gaz. vol. 184; p. 753.
Jackson, George W., Chicago, Ill. High-pressure water-distributing system. No. 1,030,587; June 25; Sp. p. 5615; Gaz. vol. 179; p. 975.
Jackson, George W., Chicago, Ill. Scow for transporting gravel. No. 1,047,233; Dec. 17; Gaz. vol. 185; p. 567.
Jackson, George W., assignor, by mesne assignments, to George W. Jackson Manufacturing Company, Chicago, Ill. Machine for handling loose materials. No. 1,021,463; Mar. 26; Sp. p. 5237; Gaz. vol. 176; p. 947.
Jackson, George W., assignor, by mesne assignments, to George W. Jackson Manufacturing Company, Chicago, Ill. Excavating and loading machine. No. 1,046,300; Dec. 3; Gaz. vol. 185; p. 175.
Jackson, Henry W., East Orange, N. J., assignor to Westinghouse Lamp Company. Forming device for metallic filaments. No. 1,018,500; Feb. 27; Sp. p. 5027; Gaz. vol. 175; p. 885.
Jackson, Herbert F., Indianapolis, Ind. Screen-wire cloth. No. 1,038,895; Sept. 17; Gaz. vol. 182; p. 651.
Jackson, James, Unadella township, Livingston county, Mich. Car-step. No. 1,021,046; Mar. 26; Sp. p. 4337; Gaz. vol. 176; p. 805.
Jackson, James G., assignor to J. G. Jackson, Limited, Glasgow, Scotland. Runner for grinding-machines. No. 1,013,777; Jan. 2; Sp. p. 1515; Gaz. vol. 174; p. 240.
Jackson, John, Clinton, Iowa. Insect-killer. No. 1,018,244; Feb. 20; Sp. p. 4458; Gaz. vol. 175; p. 765.
Jackson, John T. (See Olson and Jackson.)
Jackson, John T., El Reno, Okla. Meter-box. No. 1,038,146; Sept. 10; Gaz. vol. 182; p. 357.
Jackson, John W., Pinepark, Ga. Cane-stripper. No. 1,022,242; Apr. 2; Sp. p. 1042; Gaz. vol. 177; p. 166.
Jackson, Joseph D., Washington, Pa. Combined air-compressor and shock-absorber. No. 1,038,374; Sept 10; Gaz. vol. 182; p. 434.
Jackson, Joseph L., Glastonbury, Conn. Stop-motion. No. 1,046,793; Dec. 10; Gaz. vol. 185; p. 388.
Jackson, Joseph R., Memphis, Tenn. Disinfectant-holder. No. 1,025,189; May 7; Sp. p. 176; Gaz. vol. 178; p. 30.
Jackson, Okey J., Canfield, W. Va. Toy cycle. No. 1,042,682; Oct. 29; Gaz. vol. 183; p. 1149.
Jackson, Oliver S., Beverly, Tex. Whiffletree. No. 1,047,065; Dec. 10; Gaz. vol. 185; p. 476.
Jackson, Orin V., Jacksonville, Fla., assignor to R. B. McCullough and R. L. Philips, Brunswick, Ga. Hose-lock. No. 1,030,184; June 18; Sp. p. 4603; Gaz. vol. 179; p. 793.
Jackson, Ray P., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electric-circuit interrupter. No. 1,013,167; Jan. 2; Sp. p. 160; Gaz. vol. 174; p. 27.
Jackson, Ray P., Wilkinsburg, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Voltage-regulator. No. 1,017,670; Feb. 20; Sp. p. 3141; Gaz. vol. 175; p. 566.
Jackson, Ray P., Wilkinsburg, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company. East Pittsburgh, Pa. Voltage-regulating system. No. 1,018,322; Feb. 20; Sp. p. 4609; Gaz. vol. 175; p. 791.
Jackson, Ray P., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Circuit-controlling apparatus. No. 1,043,014; Oct. 29; Gaz. vol. 183; p. 1262.
Jackson, Ray P., Swissvale, Pa., assignor to Westinghouse Electric and Manufacturing Company. Lightning-arrester. No. 1,031,795; July 9; Gaz. vol. 180; p. 371.
Jackson, Ray P., Swissvale, and H. M. Scheibe, Wilkinsburg, Pa., assignors to Westinghouse Electric and Manufacturing Company. Lightning-arrester. No. 1,031,796; July 9; Gaz. vol. 180; p. 371.
Jackson, Reginald. (See Bishop and Jackson.)
Jackson, Robert G., Tacoma, Wash. Food compound. No. 1,035,592; Aug. 13; Gaz. vol. 181; p. 433.
Jackson, Roscoe B., assignor to Hudson Motor Car Company, Detroit, Mich. Transmission-gearing. No. 1,027,608; May 28; Sp. p. 5517; Gaz. vol. 178; p. 965.
Jackson, Roy C., Dayton, Ohio. Electric checker-board. No. 1,043,318; Nov. 5; Gaz. vol. 184; p. 98.
Jackson, Simeon S., assignor to The Stafford Company, Readville, Mass. Weft-feeler device for looms. No. 1,017,055; Feb. 13; Sp. p. 1834; Gaz. vol. 175; p. 318.
Jackson, Simeon S., assignor to The Stafford Company, Readville, Mass. Pick-finder device for looms. No. 1,021,151; Mar. 26; Sp. p. 4544; Gaz. vol. 176; p. 837.
Jackson, Simeon S., Boston, assignor to The Stafford Company, Readville, Boston, Mass. Weft-parter device for looms. No. 1,023,108; Apr. 9; Sp. p. 2881; Gaz. vol. 177; p. 490.
Jackson, Simeon S., assignor, by mesne assignments, to The Stafford Company, Readville, Mass. Loom. No. 1,040,203; Oct. 1; Gaz. vol. 183; p. 179.
Jackson, Simeon S., assignor to The Stafford Company, Readville, Mass. Pick-finder device for looms. No. 1,040,547; Oct. 8; Gaz. vol. 183; p. 326.
Jackson, Simeon S., assignor to The Stafford Company, Readville, Mass. Pick-finder device for looms. No. 1,041,089; Oct. 15; Gaz. vol. 183; p. 545.
Jackson, Surn, Stockton, Cal. Well boring and casing machine for wells. No. 1,026,589; May 14; Sp. p. 3273; Gaz. vol. 178; p. 541.
Jackson, Taylor, Kansas City, Kans. Canopy. No. 1,021,930; Apr. 2; Sp. p. 369; Gaz. vol. 177; p. 61.
Jackson, Thaddeus A., assignor to E. S. Rose, New York, N. Y. Endless chain saw. No. 1,043,433; Nov. 5; Gaz. vol. 184; p. 138.
Jackson, Thomas, London, assignor to himself, and A. Ramsay, Chesham, England. Intermittent gas-light. No. 1,042,117; Oct. 22; Gaz. vol. 183; p. 927.
Jackson, Thomas, London, assignor to himself, and A. Ramsay, Chesham, Folkestone, England. Marine-engine governor. No. 1,049,099; Dec. 31; Gaz. vol. 185; p. 1278.
Jackson, Thomas C., Chicago, Ill. Scow for transporting gravel. No. 1,047,234; Dec. 17; Gaz. vol. 185; p. 568.
Jackson, Thomas C., assignor of one-third to R. J. A. Shanks, Chicago, Ill. Scow for transporting gravel and the like. No. 1,018,565; Feb. 27; Sp. p. 5224; Gaz. vol. 175; p. 908.
Jackson, Thomas C., assignor of one-third to R. J. A. Shanks, Chicago, Ill. Scow for transporting gravel and the like. No. 1,018,566; Feb. 27; Sp. p. 5227; Gaz. vol. 175; p. 908.
Jackson, Thomas T. (See Farnsworth and Jackson.)
Jackson, Walter, and H. N. Pochin, Leicester, England, assignors to United Shoe Machinery Company, Paterson, N. J. Finishing-machine for boots and shoes. No. 1,026,954; May 21; Sp. p. 4140; Gaz. vol. 178; p. 706.
Jackson, Walter M. (See Erickson, Anton, assignor.)
Jackson, Wayne, and W. E. Fry, Paola, Kans. Combination-tool. No. 1,015,026; Jan. 16; Sp. p. 4317; Gaz. vol. 174; p. 726.

Alphabetical list of patentees—Continued.

Jackson, William A., assignor to A. & J. Mfg. Company, Binghamton, N. Y. Implement for mashing potatoes, &c. No. 1,023,317; Apr. 16; Sp. p. 3364; Gaz. vol. 177; p. 600.
Jackson, William G., Santa Rosa, Cal. Animal-trap. No. 1,024,782; Apr. 30; Sp. p. 6555; Gaz. vol. 177; p. 1154.
Jackson, William G., Maricopa, Cal. Casing-tongs. No. 1,046,596; Dec. 10; Gaz. vol. 185; p. 317.
Jacob, Edward H., West Chester, Pa. Preserving mushrooms. No. 1,018,909; Feb. 27; Sp. p. 5937; Gaz. vol. 175; p. 1023.
Jacob, Ferdinand, Cologne, Germany. Waterproof material. No. 1,024,135; Apr. 23; Sp. p. 5095; Gaz. vol. 177; p. 896.
Jacob Gebruder. (See Pechstein, Bruno M., assignor.)
Jacob, Jacob H., Peoria, Ill. Self-leveling table and chair. No. 1,015,230; Jan. 16; Sp. p. 4711; Gaz. vol. 174; p. 794.
Jacob, Max, Berlin, Germany, assignor to The National Cash Register Company, Dayton, Ohio. Cash and autographic register. No 1,035,708; Aug. 13; Gaz. vol. 181; p. 471.
Jacob, Max, Berlin, Germany, assignor to The National Cash Register Company, Dayton, Ohio. Signaling device for cash-registers. No. 1,037,917; Sept. 10; Gaz vol. 182; p. 282.
Jacobi, Andreas, Leverkusen, near Cologne, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Anthracene dye. No. 1,038,589; Sept. 17; Gaz. vol. 182; p. 544.
Jacobi, Louis N., Chicago, Ill. Resilient heel. No. 1,019,898; Mar. 12; Sp. p. 1914; Gaz. vol. 176; p. 333.
Jacobie, Charles W. (See Jacobie, Walter L., assignor.)
Jacobie, Walter L., assignor to C. W. Jacobie, Glens Falls, N. Y. Tablet-binding machine. No. 1,042,443; Oct. 29; Gaz. vol. 183; p. 1064.
Jacobs, Adolph. (See Denitz and Jacobs.)
Jacobs, Adolph R., Portland, Oreg. Weatherproof outing-garment. No. 1,015,231; Jan. 16; Sp. p. 4713; Gaz. vol. 174; p. 794.
Jacobs, Arthur L., assignor, by mesne assignments, to J. M. Jacobs, Boston, Mass. Electric-lamp socket. No. 1,013,658; Jan. 2; Sp. p. 1254; Gaz. vol. 174; p. 197.
Jacobs, Charles B., Port Chester, assignor to Murray and Jacobs Manufacturing Company, New York, N. Y. Resistant surface. No. 1,014,967; Jan. 16; Sp. p. 4195; Gaz. vol. 174; p. 706.
Jacobs, Charles C., assignor to F. C. Austin Drainage Excavator Company, Chicago, Ill. Excavator. No. 1,032,834; July 16; Gaz. vol. 180; p. 769.
Jacobs, Clarence H., Santa Barbara, Cal. Nut-cracking machine. No. 1,046,466; Dec. 10; Gaz. vol. 185; p. 271.
Jacobs, Ernest H., Schenectady, N. Y., assignor to General Electric Company. Safety device for electric circuits. No. 1,045,981; Dec. 3; Gaz. vol. 185; p. 63.
Jacobs, Frank D., Canton, Mass. Combined drinking-fountain and faucet. No. 1,036,852; Aug. 27; Gaz. vol. 181; p. 934.
Jacobs, Henry, New York, N. Y. Reducing-corset. No. 1,020,825; Mar. 19; Sp. p. 3881; Gaz. vol. 176; p. 678.
Jacobs, Henry J., assignor to Buffalo Lounge Company, Buffalo, N. Y. Sofa-bed. No. 1,030,730; June 25; Sp. p. 6027; Gaz. vol. 179; p. 1026.
Jacobs, Henry J., assignor to Buffalo Lounge Company, Buffalo, N. Y. Sofa-bed. No. 1,030,731; June 25; Sp. p. 6030; Gaz. vol. 179; p. 1027.
Jacobs, Henry W. (See Lanning, Howard H., assignor.)
Jacobs, Henry W., Topeka, Kans. Riveter. No. 1,037,918; Sept. 10; Gaz. vol. 182; p. 282.
Jacobs, Israel M., Philadelphia, Pa. Cover for bed-springs. No. 1,029,370; June 11; Sp. p. 2836; Gaz. vol. 179; p. 477.
Jacobs, Jennie M. (See Jacobs, Arthur L., assignor.)
Jacobs, Kenneth W. (See Bond, Jayson K., assignor.)
Jacobs, Lesser. (See Baker and Jacobs.)
Jacobs, Maurice I., Brooklyn, N. Y. Greenhouse construction. No. 1,022,947; Apr. 9; Sp. p. 2562; Gaz. vol. 177; p. 435.
Jacobs, Maurice I., Brooklyn, N. Y. Greenhouse-gutter. No. 1,022,948; Apr. 9; Sp. p. 2563; Gaz. vol. 177; p. 435.
Jacobs, Simon, New York, N. Y. Safety breech-block lock for guns. No. 1,026,590; May 14; Sp. p. 3275; Gaz. vol. 178; p. 541.
Jacobsen, Bernhard, and K. S. Nygaard, Mekinock, N. D. Threshing-machine. No. 1,033,899; July 30; Gaz. vol. 180; p. 1190.
Jacobsen, Charles, *et al.* (See Galvin, Carroll D., assignor.)
Jacobsen, Christian T., and H. V. Hollings, San Francisco, Cal. Tobacco-holder. No. 1,043,434; Nov. 5; Gaz. vol. 184; p. 139.
Jacobsen, Jacob. (See Larson and Jacobsen.)
Jacobsen, Jacob F. (See Milligan and Jacobsen.)
Jacobson, Abram, Lanesville, Mass. Electric switch. No. 1,030,185; June 18; Sp. p. 4605; Gaz. vol. 179; p. 793.
Jacobson, Axel E., Minneapolis, Minn. Friction-clutch. No. 1,025,190; May 7; Sp. p. 177; Gaz. vol. 178; p. 30.
Jacobson, Axel E., Minneapolis, Minn. Jack for raising concrete-wall forms. No. 1,044,659; Nov. 19; Gaz. vol. 184; p. 624.
Jacobson, Emil, and A. Wolff, San Francisco, Cal. Means for heating water. No. 1,038,375; Sept. 10; Gaz. vol. 182; p. 435.
Jacobson, Herman S. (See Woods, George E., assignor.)
Jacobson, Ole, assignor to Herring-Hall-Marvin Safe Company, Hamilton, Ohio. Electric protective circuit. No. 1,022,848; Apr. 9; Sp. p. 2348; Gaz. vol. 177; p. 401.
Jacobus, David S. (See Sargent and Jacobus.)
Jacobus, David S., Jersey City, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Water-tube boiler. No. 1,044,660; Nov. 19; Gaz. vol. 184; p. 624.
Jacobus, Nelson L., West Orange, N. J., assignor to Electro-Chemical Engraving Co. Frame. No. 1,034,621; Aug. 6; Gaz. vol. 181; p. 72.
Jacoby, Harry, *et al.* (See Haney, Edwin H., assignor.)
Jacoby, Jacob, New York, N. Y. Nursing-waist. No. 1,013,778; Jan. 2; Sp. p. 1516; Gaz. vol. 174; p. 240.
Jacoway, Benjamin J., Memphis, Tenn. Window-sash lock. No. 1,046,301; Dec. 3; Gaz. vol. 185; p. 175.
Jacquart, Bernard, South River, N. J., and J. V. V. Booraem, New York, N Y. Clay-cleaning machine. No. 1,024,262; Apr. 23; Sp. p. 5378; Gaz. vol. 177; p. 942.
Jacques, Archile, Attleboro, Mass. Chain-connector. No. 1,028,217; June 4; Sp. p. 350; Gaz. vol. 179; p. 48.
Jacquet, Louis P. C. J., Neuilly-sur-Seine, France. Shock-absorber. No. 1,040,948; Oct. 8; Gaz. vol. 183; p. 463.
Jacquet, Louis P. C. J., Neuilly-sur-Seine, near Paris, France, assignor to The J. M. Shock Absorber Company. Suspension-spring for vehicles. No. 1,015,682; Jan. 23; Sp. p. 5731; Gaz. vol. 174; p. 976.
Jacquier, Gaston, Belgravia, near Johannesburg, Transvaal. Anticorrosive alloy or metallic compound. No. 1,019,963; Mar. 12; Sp. p. 2043; Gaz. vol. 176; p. 353.
Jaeger, Adolph, Jackson, Mo. Vehicle-wheel. No. 1,047,642; Dec. 17; Gaz. vol. 185; p. 713.
Jaeger, Bertha. (See Jaeger, Carl and B.)
Jaeger, Carl and B., Los Angeles, Cal. Primary cell. No. 1,039,949; Oct. 1; Gaz. vol. 183; p. 92.
Jaeger, Charles N. (See Sills and Jaeger.)
Jaeger, George, Glendale, N. Y. Match-scratching device for pipes. No. 1,035,014; Aug. 6; Gaz. vol. 181; p. 204.
Jaeger, Julius, Rutherford, N. J. Packing for water-closet bowls. No. 1,044,457; Nov. 12; Gaz. vol. 184; p. 522.
Jaeger, Otto, Norristown, assignor to The Underwriters Company, Philadelphia, Pa. Vending-machine. No. 1,019,715; Mar. 5; Sp. p. 1530; Gaz. vol. 176; p. 238.
Jaeger, Otto, Norristown, assignor to The Underwriters Company, Philadelphia, Pa. Coin-receptacle. No. 1,034,113; July 30; Gaz. vol. 180; p. 1265.
Jaekel, Alfred, Paris, France. Automatic compressor-pump. No. 1,039,539; Sept. 24; Gaz. vol. 182; p. 890.
Jaeneke, Frederick C., Milwaukee, Wis. Water-heater. No. 1,020,558; Mar. 19; Sp. p. 3292; Gaz. vol. 176; p. 588.
Jaensch, Julius, Breslau, Germany. Apparatus arranged on locomotives and other power-propelled vehicles for utilizing the resistance of the air. No. 1,042,795; Oct. 29; Gaz. vol. 183; p. 1188.
Jaeschke, Alfred, San Diego, Cal. Self-feeding paint-brush. No. 1,038,376; Sept. 10; Gaz. vol. 182; p. 435.
Jagenberg, Emil, Dusseldorf, Germany. Machine for making pasteboard boxes. No. 1,016,269; Feb. 6; Sp. p. 59; Gaz. vol. 175; p. 12.
Jagenberg, Emil, Dusseldorf, Germany. Machine for making paper boxes. No. 1,021,315; Mar. 26; Sp. p. 4895; Gaz. vol. 176; p. 894.
Jagenberg, Emil, Dusseldorf, Germany. Pasting-machine for box-blanks. No. 1,038,377; Sept. 10; Gaz. vol. 182; p. 435.
Jagenberg, Emil, Dusseldorf, Germany. Bottle-capping machine. No. 1,042,231; Oct. 22; Gaz. vol. 183; p. 965.
Jahn, Ernst, Arnswalde, Germany. Centrifugal machine. No. 1,032,285; July 9; Gaz. vol. 180; p. 538.
Jahn, Frederick G., New York, N. Y. Feeding mechanism. No. 1,018,058; Feb. 20; Sp. p. 4056; Gaz. vol. 175; p. 701.
Jahn, Frederick G., assignor to The International Postal Supply Company of New York, New York, N. Y. Gripper for printing and other mechanism. No. 1,018,059; Feb. 20; Sp. p. 4059; Gaz. vol. 175; p. 702.
Jahn, Frederick G., assignor to The International Postal Supply Company of New York, New York, N. Y. Printing mechanism. No. 1,018,060; Feb. 20; Sp. p. 4064; Gaz. vol. 175; p. 702.
Jahn, Frederick L., assignor to Watson & McDaniel Company, Philadelphia, Pa. Pump-governor. No. 1,037,773; Sept. 3; Gaz. vol. 182; p. 199.
Jahnke, Albert A., San Francisco, Cal., assignor, by mesne assignments, to National Wireless Telephone & Telegraph Co. High-frequency oscillator. No. 1,047,643; Dec. 17; Gaz. vol. 185; p. 713.
Jahns, Charles F., Fox Lake, Wis. Grain-harvester. No. 1,019,651; Mar. 5; Sp. p. 1419; Gaz. vol. 176; p. 218.
Jahr, Gerhard, Berlin, Germany. Electric heating-pad. No. 1,036,632; Aug. 27; Gaz. vol. 181; p. 861.
Jakubowski, Michal, Windber, Pa. Trolley. No. 1,034,241; July 30; Gaz. vol. 180; p. 1310.

Alphabetical list of patentees—Continued.

Jambretz, Johan, New York, N. Y. Hat-fastening device. No. 1,032,140; July 9; Gaz. vol. 180; p. 486.
James, Arthur E. (See Chisholm and James.)
James B. Clow & Sons. (See Davidson, John A., assignor.)
James B. Clow & Sons. (See Pleins, Leo H., assignor.)
James, Charles, New York, N. Y. Automatic speed-regulating device for railways. No. 1,049,239; Dec. 31; Gaz. vol. 185; p. 1324.
James, Charles, assignor of two-thirds to W. N. Bradford and G. D. Nicholson, Cambridge, Ohio. Dust-proof and fireproof receptacle for moving-picture films. No. 1,034,114; July 30; Gaz. vol. 180; p. 1265.
James, David W., Desmet, Idaho. Rail-joint. No. 1,037,774; Sept. 3; Gaz. vol. 182; p. 199.
James, Edward W., Mechanicsburg, Ill. Combined hatchet and adz. No. 1,021,931; Apr. 2; Sp. p. 370; Gaz. vol. 177; p. 61.
James, Frank P., Nashville, Tenn., assignor to The Electric Meat Curing Company, Cleveland, Ohio. Curing hides. No. 1,025,401; May 7; Sp. p. 654; Gaz. vol. 178; p. 102.
James, Frederick R., and A. C. Thompson, assignors of three-eighths to said James, three-eighths to said Thompson, and one-fourth to T. Allatt, Toronto, Ontario, Canada. Egg-preserving apparatus. No. 1,019,048; Mar. 5; Sp. p. 81; Gaz. vol. 176; p. 16.
James, Henry D., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Control system for electric motors. No. 1,024,631; Apr. 30; Sp. p. 6252; Gaz. vol. 177; p. 1100.
James, Henry D., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Controller. No. 1,042,444; Oct. 29; Gaz. vol. 183; p. 1065.
James, Henry H., Winnipeg, Manitoba, Canada, assignor to The Sell Horse Goods Company, Canton, Ohio. Bridle-bit for side-pullers. No. 1,042,796; Oct. 29; Gaz. vol. 183; p. 1188.
James Hunter Machine Company, The. (See Scribner, Charles E. T., assignor.)
James, John E., Worthington, Pa., assignor of one-half to G. L. Cabot, Boston, Mass. High-pressure regulator and cut-off valve. No. 1,020,284; Mar. 12; Sp. p. 2717; Gaz. vol. 176; p. 460.
James, John M., *et al.* (See Crawford, Thomas, assignor.)
James, John Y., Sayre, Okla., assignor of one-half to H. B. Hefner, Chicago, Ill. Automatic steering device. No. 1,047,644; Dec. 17; Gaz. vol. 185; p. 714.
James, Jolly, Kenney, Ill. Hay-press. No. 1,043,598; Nov. 5; Gaz. vol. 184; p. 197.
James, Joseph C., Antioch, Ill. Visible signal. No. 1,015,565; Jan. 23; Sp. p. 5460; Gaz. vol. 174; p. 935.
James, Joseph C., Antioch, Ill. Trace-holder structure for swingletrees. No. 1,045,848; Dec. 3; Gaz. vol. 185; p. 18.
James, Joseph E., Wolfe City, Tex. Bag-rack. No. 1,018,619; Feb. 27; Sp. p. 5330; Gaz. vol. 175; p. 925.
James, Joseph H., Pittsburgh, Pa. Illuminant and producing the same. No. 1,028,357; June 4; Sp. p. 648; Gaz. vol. 179; p. 97.
James Leckie & Son Company. (See Walters, Frank, assignor.)
James, Leroy S., Aldan, Pa., and H. R. Fryling, Oakley, N. J. Combined coffee and tea pot. No. 1,035,444; Aug. 13; Gaz. vol. 181; p. 384.
James, Richard R., Brooklyn, N. Y. Automatic valve for water-heaters. No. 1,024,263; Apr. 23; Sp. p. 5382; Gaz. vol. 177; p. 942.
James S. Kirk & Co. (See Becker and Ciesla, assignors.)
James, Stephen, Youngstown, Ohio. Rail-joint. No. 1,024,450; Apr. 23; Sp. p. 5757; Gaz. vol. 177; p. 1001.
James, Sydney V., assignor of one-half to H. F. McCormick, Chicago, Ill. Flying-machine. No. 1,045,708; Nov. 26; Gaz. vol. 184; p. 1020.
James Walker and Company Limited. (See Walker, James, assignor.)
James, William E. (See Lang and James.)
James, William T., Chicago, Ill. Mechanism for carrying materials. No. 1,022,787; Apr. 9; Sp. p. 2221; Gaz. vol. 177; p. 380.
Jameson, Albert J., Worcester, Mass., assignor to The American Steel and Wire Company of New Jersey, Hoboken, N. J. Frictional driving mechanism for rolling-mills. No. 1,032,679; July 16; Gaz. vol. 180; p. 717.
Jameson, Nelson W., Georgetown, Del. Water-power appliance. No. 1,029,127; June 11; Sp. p. 2298; Gaz. vol. 179; p. 392.
Jameson, Roland L., assignor to H. W. Vaughan and J. H. Bennett, Hillsboro, Tex. Ice-cream freezer. No. 1,013,779; Jan. 2; Sp. p. 1517; Gaz. vol. 174; p. 241.
Jameson, Stewart W., Oskaloosa, Iowa. Flexible coupling. No. 1,038,757; Sept. 17; Gaz. vol. 182; p. 603.
Jamestown Lounge Company. (See Greenlund, Arthur H., assignor.)
Jamieson, James A., Montreal, Quebec, Canada. Raising the nap of cloth. No. 1,017,151; Feb. 13; Sp. p. 2056; Gaz. vol. 175; p. 353.
Jamieson, Robert, assignor to Draper Company, Hopedale, Mass. Loom. No. 1,029,756; June 18; Sp. p. 3665; Gaz. vol. 179; p. 646.
Jamieson, Robert, assignor to Draper Company, Hopedale, Mass. Filling-guide for looms. No. 1,047,945; Dec. 24; Gaz. vol. 185; p. 846.
Jamieson, Robert W. (See Barnes and Jamieson.)
Jamieson, Wilburn W., Jr. (See Storer and Jamieson.)
Jamison, Frank L., Pittsburgh, assignor of one-half to C. R. Cline, Wilkinsburg, Pa. Ingot-casting device. No. 1,032,835; July 16; Gaz. vol. 180; p. 769.
Jamison, John A., assignor to Elliott Company, Pittsburgh, Pa. Alarm water-column for boilers and the like. No. 1,045,294; Nov. 26; Gaz. vol. 184; p. 872.
Jamrog, Wojciech, Saginaw, Mich. Curtain-fastener. No. 1,045,709; Nov. 26; Gaz. vol. 184; p. 1020.
Jancsó, Wilhelm. (See Kolár and Jancsó.)
Janeček, Franz, Prague, Austria-Hungary. Display apparatus. No. 1,049,240; Dec. 31; Gaz. vol. 185; p. 1324.
Jänecke, Ernst, Hanover, Germany. Liquefying air and separating it into its elements. No. 1,015,800; Jan. 30; Sp. p. 5964; Gaz. vol. 174; p. 1043.
Janek, Paul, Cleveland, Ohio. Automobile brake and jack. No. 1,021,779; Apr. 2; Sp. p. 47; Gaz. vol. 177; p. 11.
Janesone, John M., Richmond Hill, N. Y. Aeroplane. No. 1,031,797; July 9; Gaz. vol. 180; p. 371.
Janesville Machine Co., The. (See Milliken, Norman I., assignor.)
Janesville Machine Company, The. (See Heylman, Edward M., assignor.)
Janette, John T., Chicago, Ill. Motor-controlling device. No. 1,033,900; July 30; Gaz. vol. 180; p. 1190.
Janette, John T., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Electric switch. No. 1,016,071; Jan. 30; Sp. p. 6559; Gaz. vol. 174; p. 1138.
Janette, John T., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Motor-controller. No. 1,018,765; Feb. 27; Sp. p. 5643; Gaz. vol. 175; p. 975.
Janisch, Maximillian P., Muskegon, Mich., assignor to Lovell Manufacturing Company, Erie, Pa. Clothes-wringer. No. 1,018,422; Feb. 27; Sp. p. 4848; Gaz. vol. 175; p. 858.
Jankosky, Thomas, assignor of one-fourth to M. Swiecicki, Philadelphia, Pa. Nut-cracking device. No. 1,013,168; Jan. 2; Sp. p. 163; Gaz. vol. 174; p. 28.
Jankowski, Thomas, assignor of one-fourth to M. Swiecicki, Philadelphia, Pa. Curtain-pole. No. 1,013,169; Jan. 2; Sp. p. 164; Gaz. vol. 174; p. 28.
Jann, John H., Chicago, Ill. Turret-operating mechanism. No. 1,022,086; Apr. 2; Sp. p. 708; Gaz. vol. 177; p. 113.
Jannell, Leslie D., Rumford, Me., assignor, by mesne assignments, to L. W. Luellen, New York, N. Y. Liquid and cup dispensing apparatus. No. 1,035,348; Aug. 13; Gaz. vol. 181; p. 351.
Janney, Eli H., assignor to N. H. Janney, Alexandria, Va. Car-coupling. No. 1,045,091; Nov. 19; Gaz. vol. 184; p. 774.
Janney, Nannie H. (See Janney, Eli H., assignor.)
Janney, Reynold, New York, N. Y. Rotary pump or motor. No. 1,020,285; Mar. 12; Sp. p. 2719; Gaz. vol. 176; p. 461.
Janney, Reynold, New York, N. Y. Calculating-machine. No. 1,044,184; Nov. 12; Gaz. vol. 184; p. 428.
Janosek, John A., Bartlett, Tex. Attachment for cultivators, &c. No. 1,031,121; July 2; Gaz. vol. 180; p. 97.
Janpole, William M., Los Angeles, Cal. Apparatus for constructing coverings. No. 1,022,367; Apr. 2; Sp. p. 1278; Gaz. vol. 177; p. 206.
Janpole, William M., Los Angeles, Cal. Making structural elements. No. 1,024,687; Apr. 30; Sp. p. 6362; Gaz. vol. 177; p. 1121.
Jansen, Alfred W., Chicago Heights, Ill. Fireless cooker. No. 1,021,679; Mar. 26; Sp. p. 5653; Gaz. vol. 176; p. 1017.
Jansen, William, assignor to The Adams & Westlake Company, Chicago, Ill. Sash lock and lift. No. 1,026,747; May 21; Sp. p. 3641; Gaz. vol. 178; p. 633.
Janson, Axel. (See Bolin and Janson.)
Janson, Carl G., Oakland, Cal. Sidewalk-elevator-door frame. No. 1,020,286; Mar. 12; Sp. p. 2722; Gaz. vol. 176; p. 461.
Jantzen, Niels, assignor of one-half to B. A. Holden, Victoria, British Columbia, Canada. Lifting-jack. No. 1,029,447; June 11; Sp. p. 3005; Gaz. vol. 179; p. 503.
Jantzen, Niels, assignor of one-half to B. A. Holden, Victoria, British Columbia, Canada. Log-haul shoe. No. 1,040,949; Oct. 8; Gaz. vol. 183; p. 463.
January, Harry C., St. Louis, Mo. Collapsible duck-blind. No. 1,031,851; July 9; Gaz. vol. 180; p. 391.
Janukaytis, Joseph, New York, N. Y. Dumping-vehicle. No. 1,036,248; Aug. 20; Gaz. vol. 181; p. 697.
Janus Vacuum Goods Company. (See Daggett and Stilling, assignors.)
Januszewski, Boleslaw, Revere, Mass. Camera-shutter-operating device. No. 1,045,149; Nov. 26; Gaz. vol. 184; p. 821.
Japanese Tissue Mills. (See Pope, Charles E., assignor.)
Jaques, Fernando O., Sr., Cranston, R. I. Micrometer-calipers. No. 1,021,680; Mar. 26; Sp. p. 5655; Gaz. vol. 176; p. 1017.
Jaques, Fernando O., Jr., Cranston, R. I. Lathe-tool. No. 1,034,367; July 30; Gaz. vol. 180; p. 1354.

Alphabetical list of patentees—Continued.

Jaques, Fernando O., Jr., Cranston, assignor to The Central Tool Company, Providence, R. I. Dental press. No. 1,013,940; Jan. 9; Sp. p. 1903; Gaz. vol. 174; p. 324.
Jaquet, Charles, assignor to Schneider, Jaquet & Cie., G. m. b. H., Königshofen, Strasburg, Germany. Treating grain, pulse, and the like. No. 1,041,629; Oct. 15; Gaz. vol. 183; p. 723.
Jarosz, Onufar, Clayville, N. Y. Lifting device. No. 1,033,407; July 23; Gaz. vol. 180; p. 1000.
Jarrell, O. L., *et al.* (See Townsend, Charles E., assignor.)
Jarry, Hormidas, Lawrence, assignor to The Whitin Machine Works, Whitinsville, Mass. Heilmann comber. No. 1,029,128; June 11; Sp. p. 2300; Gaz. vol. 179; p. 392.
Jarry, Hormidas, Lawrence, assignor to The Whitin Machine Works, Whitinsville, Mass. Heilmann comber. No. 1,029,129; June 11; Sp. p. 2303; Gaz. vol. 179; p. 393.
Jarvis, Charles H. (See Hancock and Jarvis.)
Jarvis, Claude S. (See Anderton and Jarvis.)
Jarvis, Frederick C., Oakland, Cal. Match-box. No. 1,016,412; Feb. 6; Sp. p. 395; Gaz. vol. 175; p. 62.
Jarvis, Harold, Buffalo, N. Y., and L. R. Jarvis, Toronto, Ontario, Canada. Train signaling mechanism. No. 1,030,307; June 25; Sp. p. 4900; Gaz. vol. 179; p. 875.
Jarvis, Herbert L., deceased, McKittrick; R. L. Jarvis, administratrix, Bakersfield, assignor of one-third to J. M. Sands, Los Angeles, and one-third to G. W. Church, Bakersfield, Cal. Swivel rope-socket. No. 1,019,794; Mar. 12; Sp. p. 1701; Gaz. vol. 176; p. 297.
Jarvis, John E. B., deceased; L. M. Jarvis, administratrix, Sedalia, Mo. Horse lift-rake. No. 1,044,458; Nov. 12; Gaz. vol. 184; p. 522.
Jarvis, Judge L., Unity, Wis. Gambrel. No. 1,025,806; May 7; Sp. p. 1528; Gaz. vol. 178; p. 241.
Jarvis, Lillie M., administratrix. (See Jarvis, John E. B.)
Jarvis, Louis R. (See Jarvis, Harold and L. R.)
Jarvis, Rose L., administratrix. (See Jarvis, Herbert L.)
Jas. H. Matthews & Co. (See Howard, John J., assignor.)
Jas. H. Matthews & Co. (See Matthews, James H., assignor.)
Jaschke, August, Tomahawk, Wis. Hat-pin-point protector. No. 1,041,291; Oct. 15; Gaz. vol. 183; p. 615.
Jasgott, John, Christopher, Ill. Instrument of precision. No. 1,022,849; Apr. 9; Sp. p. 2352; Gaz. vol. 177; p. 402.
Jasiecki, Kazimier, and K. Glowacki, Philadelphia, Pa. Rail-supporting plate. No. 1,024,855; Apr. 30; Sp. p. 6708; Gaz. vol. 177; p. 1181.
Jasiecki, Kazimier, and K. Glowacki, Philadelphia, Pa. Rail-joint. No. 1,024,856; Apr. 30; Sp. p. 6709; Gaz. vol. 177; p. 1181.
Jasogne, Marie, Paris, France. Aeroplane. No. 1,041,630; Oct. 15; Gaz. vol. 183; p. 723.
Jasper, George F. (See Green, William L., assignor.)
Jasper, Wilhelm, New York, N. Y. Straw-hat-sewing machine. No. 1,034,459; Aug. 6; Gaz. vol. 181; p. 19.
Jass, Carl, Horicon, Wis. Seed-planting mechanism. No. 1,023,894; Apr. 23; Sp. p. 4543; Gaz. vol. 177; p. 812.
Jass, Carl, Horicon, Wis. Earth-pulverizing machine. No. 1,045,295; Nov. 26; Gaz. vol. 184; p. 872.
Jass, Carl, Horicon, Wis. Hook. No. 1,046,302; Dec. 3; Gaz. vol. 185; p. 176.
Jaubert, George F., Paris, France. Cartridge for the preparation of oxygen. No. 1,025,191; May 7; Sp. p. 179; Gaz. vol. 178; p. 30.
Jaubert, George F., Paris, France. Preparation of hydrogen by autocombustion. No. 1,029,064; June 11; Sp. p. 2158; Gaz. vol. 179; p. 372.
Jaubert, George F., Paris, France. Manufacturing hydrogen. No. 1,037,919; Sept. 10; Gaz. vol. 182; p. 282.
Jaubert, George F., Paris, France. Compound containing active oxygen and making it. No. 1,039,408; Sept. 24; Gaz. vol. 182; p. 843.
Jaubert, George F., Paris, France. Preparation of hydrogen by autocombustion. No. 1,040,204; Oct. 1; Gaz. vol. 183; p. 179.
Jaubert, George F., Paris, France. Manufacturing oxygenated salts. No. 1,047,645; Dec. 17; Gaz. vol. 185; p. 714.
Jaumandreu, Francisco, Barcelona, Spain. Apparatus for the treatment of textiles in the form of threads, cords, hanks, and fabrics. No. 1,017,547; Feb. 13; Sp. p. 2893; Gaz. vol. 175; p. 488.
Javins, Harry A., Oakland, Cal., assignor to Javins-McGeehan Manufacturing Company. Wall-bed weights. No. 1,015,318; Jan. 23; Sp. p. 4914; Gaz. vol. 174; p. 851.
Javins, Harry A., Oakland, assignor to Javins Manufacturing Company, San Francisco, Cal. Folding bed. No. 1,017,548; Feb. 13; Sp. p. 2894; Gaz. vol. 175; p. 489.
Javins Manufacturing Company. (See Javins, Harry A., assignor.)
Javins-McGeehan Manufacturing Company. (See Javins, Harry A., assignor.)
Jaxtheimer, Charles H., New Wilmington, Pa. Making firebrick. No. 1,018,665; Feb. 27; Sp. p. 5425; Gaz. vol. 175; p. 940.
Jay, William N., Moscow, Idaho. Wrench. No. 1,031,717; July 9; Gaz. vol. 180; p. 344.
Jeanmairet, Paul E., Elgin, Ill. Escapement-wheel. No. 1,044,054; Nov. 12; Gaz. vol. 184; p. 385.
Jeavons, William R., *et al.* (See Blackford, Atwell J., assignor.)
Jeavons, William R., Cleveland, Ohio. Heater. No. 1,029,757; June 18; Sp. p. 3667; Gaz. vol. 179; p. 647.
Jeavons, William R., Cleveland, Ohio. Door. No. 1,038,590; Sept. 17; Gaz. vol. 182; p. 544.
Jeavons, William R., Cleveland, Ohio. Burner-supply connection. No. 1,039,950; Oct. 1; Gaz. vol. 183; p. 93.
Jeavons, William R., Cleveland, Ohio. Toasting device. No. 1,045,296; Nov. 26; Gaz. vol. 184; p. 873.
Jeavons, William R., Cleveland, Ohio. Oil-burner. No. 1,045,408; Nov. 26; Gaz. vol. 184; p. 911.
Jeavons, William R., Cleveland, Ohio. Heater. No. 1,045,409; Nov. 26; Gaz. vol. 184; p. 912.
Jeffcott, Lewis B., New York, N. Y. Convertible couch and bed. No. 1,025,745; May 7; Sp. p. 1408; Gaz. vol. 178; p. 220.
Jeffcott, Lewis B., New York, N. Y. Folding bed. No. 1,037,259; Sept. 3; Gaz. vol. 182; p. 28.
Jefferies, Ebenezer A. W., assignor to Morgan Construction Company, Worcester, Mass. Conduit for gas fuel. No. 1,037,920; Sept. 10; Gaz. vol. 182; p. 283.
Jefferies, Ebenezer A. W., and G. H. Isley, assignors to Morgan Construction Company, Worcester, Mass. Gas-producer. No. 1,025,192; May 7; Sp. p. 180; Gaz. vol. 178; p. 31.
Jefferies, Fredrick L., Granite City, Ill., assignor to Corn Products Refining Company. Apple jelly and making the same. No. 1,045,849; Dec. 3; Gaz. vol. 185; p. 19.
Jefferies, Fredrick L., Granite City, Ill., and W. Spain, St. Louis, Mo., assignors to Corn Products Refining Company. Apparatus for handling cans and the like. No. 1,015,319; Jan. 23; Sp. p. 4915; Gaz. vol. 174; p. 851.
Jefferies, Fredrick L., Granite City, Ill., and W. Spain, St. Louis, Mo., assignors to Corn Products Refining Company. Capping-machine for cans. No. 1,015,320; Jan. 23; Sp. p. 4918; Gaz. vol. 174; p. 852.
Jefferson, Charles W., Schenectady, assignor to Mica Insulator Company, New York, N. Y. Apparatus for distributing and leveling pieces or scales of mica or other material. No. 1,026,986; May 21; Sp. p. 4197; Gaz. vol. 178; p. 716.
Jefferson, Eugene D., Lowell, Mass. Bleaching apparatus. No. 1,044,185; Nov. 12; Gaz. vol. 184; p. 428.
Jefferson, George F., Houston, Tex. Bread-pan. No. 1,015,892; Jan. 30; Sp. p. 6164; Gaz. vol. 174; p. 1074.
Jefferson Glass Company. (See Schnelbach, Harry A., assignor.)
Jefferson, Lee, Bigfork, Mont. Bed-spring. No. 1,016,633; Feb. 6; Sp. p. 932; Gaz. vol. 175; p. 139.
Jefferson, Mano, Hartford, Conn. Attachment for bathtubs. No. 1,040,686; Oct. 8; Gaz. vol. 183; p. 379.
Jefferson, Michael, Monroe, La. Folding steps. No. 1,026,167; May 14; Sp. p. 2373; Gaz. vol. 178; p. 400.
Jeffery, Charles T., *et al.*, executors. (See Jeffery, Thomas B.)
Jeffery, Charles T., *et al.*, executors. (See Symmonds, Robert, Jr., assignor.)
Jeffery, Harold W., *et al.*, executors. (See Jeffery, Thomas B.)
Jeffery, Harold W., *et al.*, executors. (See Symmonds, Robert, Jr., assignor.)
Jeffery, Harry A., Cleveland, Ohio. Vacuum-producer. No. 1,035,880; Aug. 20; Gaz. vol. 181; p. 568.
Jeffery, Kate E., *et al.*, executors. (See Jeffery, Thomas B.)
Jeffery, Kate E., *et al.*, executors. (See Symmonds, Robert, Jr., assignor.)
Jeffery, Richard E., Piedmont, Cal. Demountable rim. No. 1,025,528; May 7; Sp. p. 947; Gaz. vol. 178; p. 146.
Jeffery, Thomas B. (See Symmonds, Robert, Jr., assignor.)
Jeffery, Thomas B., deceased, Kenosha, Wis.; K. E., C. T., and H. W. Jeffery, executors. Vehicle-wheel. No. 1,013,295; Jan. 2; Sp. p. 465; Gaz. vol. 174; p. 72.
Jeffery, Thomas B., deceased, Kenosha, Wis.; K. E., C. T., and H. W. Jeffery, executors. Safety attachment for automobiles. No. 1,026,168; May 14; Sp. p. 2375; Gaz. vol. 178; p. 400.
Jeffrey Manufacturing Company, The. (See Bauroth, Walter J., assignor.)
Jeffrey Manufacturing Company, The. (See Dunlop, Robert R., assignor.)
Jeffrey Manufacturing Company, The. (See Fetherolf, Charles E., assignor.)
Jeffrey Manufacturing Company, The. (See Fisher, Dudley T., assignor.)
Jeffrey Manufacturing Company, The. (See Levin, Nils D., assignor.)
Jeffrey Manufacturing Company, The. (See Liggett, William K., assignor.)
Jeffrey Manufacturing Company, The. (See Liggett and Armstrong, assignors.)
Jeffrey Manufacturing Company, The. (See Lynch, George E., assignor.)

Alphabetical list of patentees—Continued.

Jeffrey Manufacturing Company, The. (See Merrill, Edwin R., assignor.)
Jeffrey Manufacturing Company, The. (See Mueller, George H., assignor.)
Jeffrey Manufacturing Company, The. (See Sessions, Frank L., assignor.)
Jeffrey Manufacturing Company, The. (See Sessions and Coseo, assignors.)
Jeffrey Manufacturing Company, The. (See Smith, William L., assignor.)
Jeffrey Manufacturing Company, The. (See Waxbom, Carl J. E., assignor.)
Jeffrey Manufacturing Company, The. (See Weber, Reinhold H., assignor.)
Jeffrey Manufacturing Company, The. (See Whiting, Frank O., assignor.)
Jeffrey Manufacturing Company, The. (See Wyer, Samuel S., assignor.)
Jeffrey Manufacturing Company, The. (See Youmans, William R., assignor.)
Jeffries, Francis W. (See Blodgett, Chester A., assignor.)
Jeffries, Joseph U. (See Thomas and Jeffries.)
Jegge, Emil G., Newark, N. J. Press. No. 1,030,408; June 25; Sp. p. 5113; Gaz. vol. 179; p. 912.
Jellinek, Marcell, and J. F. de Tóváros, Budapest, Austria-Hungary. Suspension of trolley-wires. No. 1,033,104; July 23; Gaz. vol. 180; p. 897.
Jenckes Spinning Company. (See Wood, William P., assignor.)
Jencyk, Frank A., Chicago, Ill. Non-refillable bottle. No. 1,020,204; Mar. 12; Sp. p. 2563; Gaz. vol. 176; p. 435.
Jenczyk, Andrew, Chicago, Ill. Resilient heel for shoes. No. 1,039,409; Sept. 24; Gaz. vol. 182; p. 843.
Jendral, Jacob, Barnesboro, Pa. Metallic tie and rail-fastener. No. 1,020,984; Mar. 26; Sp. p. 4219; Gaz. vol. 176; p. 783.
Jenevein, August J., San Bruno, Cal. Flour-sifter. No. 1,035,349; Aug. 13; Gaz. vol. 181; p. 351.
Jenkins, Alexander, *et al.* (See Doyle, James, assignor.)
Jenkins, Alexander F., assignor to The Alexander Milburn Company, Baltimore, Md. Acetylene-generator. No. 1,023,850; Apr. 23; Sp. p. 4441; Gaz. vol. 177; p. 798.
Jenkins, Alexander F., assignor to The Alexander Milburn Company, Baltimore, Md. Contractor's torch. No. 1,023,851; Apr. 23; Sp. p. 4443; Gaz. vol. 177; p. 798.
Jenkins, Amanda A. (See Jenkins, Charles and A. A.)
Jenkins, Charles and A. A., Philadelphia, Pa. Life-boat. No. 1,040,340; Oct. 8; Gaz. vol. 183; p. 255.
Jenkins, Charles F., Washington, D. C. Tapering metal bodies. No. 1,017,671; Feb. 20; Sp. p. 3143; Gaz. vol. 175; p. 566.
Jenkins, Charles F., Washington, D. C. Motion-picture apparatus. No. 1,017,672; Feb. 20; Sp. p. 3144; Gaz. vol. 175; p. 566.
Jenkins, Charles F., Washington, D. C. Starting device for internal-combustion engines. No. 1,024,077; Apr. 23; Sp. p. 4940; Gaz. vol. 177; p. 875.
Jenkins, Charles F., Washington, D. C. Tire-repair device. No. 1,024,078; Apr. 23; Sp. p. 4941; Gaz. vol. 177; p. 876.
Jenkins, Charles F., Washington, D. C. Wheel-rim. No. 1,032,286; July 9; Gaz. vol. 180; p. 538.
Jenkins, Charles F., Washington, D. C. Picture-film rack. No. 1,045,410; Nov. 26; Gaz. vol. 184; p. 912.
Jenkins, Charles F., Washington, D. C. Gas-engine starter. No. 1,047,527; Dec. 17; Gaz. vol. 185; p. 672.
Jenkins, Charles F., Washington, D. C. Motion-picture apparatus. No. 1,047,528; Dec. 17; Gaz. vol. 185; p. 673.
Jenkins, Charles F., Washington, D. C. Valve. No. 1,047,529; Dec. 17; Gaz. vol. 185; p. 673.
Jenkins, Charles F., Washington, D. C. Apparatus for providing boxes with closures. No. 1,047,530; Dec. 17; Gaz. vol. 185; p. 673.
Jenkins, Charles F., Washington, D. C. Valve. No. 1,047,531; Dec. 17; Gaz. vol. 185; p. 673.
Jenkins, Charles F., Washington, D. C., assignor to Single Service Package Corporation of America, New York, N. Y. Closure-making machine. No. 1,017,549; Feb. 13; Sp. p. 2896; Gaz. vol. 175; p. 489.
Jenkins, Charles F., Washington, D. C., assignor to Single Service Package Corporation of America, New York, N. Y. Apparatus for making paper tubes. No. 1,047,946; Dec. 24; Gaz. vol. 185; p. 846.
Jenkins, Charles K., South Butte, Mont. Roller window-screen. No. 1,016,413; Feb. 6; Sp. p. 396; Gaz. vol. 175; p. 62.
Jenkins, Dula S., Las Animas, Colo. Foundation-fastener. No. 1,035,709; Aug. 13; Gaz. vol. 181; p. 472.
Jenkins, Edward C. and J., Birkenhead, England. Tool for inserting and withdrawing screwed ferrules. No. 1,030,732; June 25; Sp. p. 6033; Gaz. vol. 179; p. 1027.
Jenkins, Edwin C., Beloit, Wis. Railway-tie. No. 1,040,205; Oct. 1; Gaz. vol. 183; p. 180.
Jenkins, Henry H., Morrison, Iowa. Hand galley-proofing press. No. 1,019,652; Mar. 5; Sp. p. 1422; Gaz. vol. 176; p. 219.
Jenkins, James L. E., Kansas City, Mo. Pedestal. No. 1,039,134; Sept. 24; Gaz. vol. 182; p. 746.
Jenkins, Joseph. (See Jenkins, Edward C. and J.)
Jenkins, Joseph H., Mount Vernon, Ohio, assignor to The Jenkins-Pirie Tool Company, Barre, Vt. Granite-chisel. No. 1,024,940; Apr. 30; Sp. p. 6887; Gaz. vol. 177; p. 1209.
Jenkins, Merrill L., Harvey, assignor to The Buda Company, Chicago, Ill. Lifting-jack. No. 1,048,077; Dec. 24; Gaz. vol. 185; p. 888.
Jenkins, Merrill L., Harvey, assignor to The Buda Company, Chicago, Ill. Friction driving mechanism. No. 1,048,315; Dec. 24; Gaz. vol. 185; p. 969.
Jenkins, Michael E., *et al.* (See Burrows, Clarence B., assignor.)
Jenkins-Pirie Tool Company, The. (See Jenkins, Joseph H., assignor.)
Jenkins, Robert N., *et al.* (See Hall, Frank M., assignor.)
Jenkins, Samuel E., Holcombs Rock, Va. Clothes-drier. No. 1,015,959; Jan. 30; Sp. p. 6304; Gaz. vol. 174; p. 1097.
Jenkins, William E., assignor of one-half to C. A. Kopp, Kansas City, Mo. Cigar-molding machine. No. 1,024,632; Apr. 30; Sp. p. 6256; Gaz. vol. 177; p. 1101.
Jenkins, William M., Chicago, Ill. Bag-binder. No. 1,019,049; Mar. 5; Sp. p. 82; Gaz. vol. 176; p. 16.
Jenkins, William M., Pittsburgh, Pa., and E. R. Ward, Hartford, Conn. Tool for locking nuts. No. 1,020,040; Mar. 12; Sp. p. 2201; Gaz. vol. 176; p. 379.
Jenks, Lewis B. (See Shreve, Harry B., assignor.)
Jenks, Thomas W. (See Pagelsen, Edward N., assignor.)
Jenne, Henry S., assignor to Star Egg Carrier & Tray Mfg. Co., Rochester, N. Y. Egg-carrier. No. 1,043,435; Nov. 5; Gaz. vol. 184; p. 139.
Jennes, Joseph N., Superior, Wis. Notching-machine. No. 1,043,705; Nov. 5; Gaz. vol. 184; p. 232.
Jenney, Charles D., Indianapolis, Ind. Automobile-starter. No. 1,022,087; Apr. 2; Sp. p. 712; Gaz. vol. 177; p. 113.
Jenney, Robert T., De Pere, Wis. Earth-auger. No. 1,017,416; Feb. 13; Sp. p. 2626; Gaz. vol. 175; p. 441.
Jennings, Arthur B., Hazleton, Pa., assignor to International Steam Pump Company. Pump. No. 1,014,153; Jan. 9; Sp. p. 2365; Gaz. vol. 174; p. 395.
Jennings, Augustus H., Cokesbury, S. C. Subsoil attachment for plows. No. 1,018,061; Feb. 20; Sp. p. 4072; Gaz. vol. 175; p. 702.
Jennings, Chester S., Boston, Mass., assignor to Lamson Consolidated Store Service Company, Newark, N. J. Pneumatic-despatch-tube apparatus. No. 1,032,141; July 9; Gaz. vol. 180; p. 486.
Jennings, Edward W. (See Lain and Jennings.)
Jennings, Irving C., South Norwalk, Conn. Internal-combustion generator. No. 1,024,079; Apr. 23; Sp. p. 4942; Gaz. vol. 177; p. 876.
Jennings, Jarvis S., Jr., assignor of one-third to B. Siegel, P. O'Brien, and L. Breisacher and one-third to F. Goebel, Detroit, Mich. Internal-combustion engine. No. 1,022,390; Apr. 2; Sp. p. 1320; Gaz. vol. 177; p. 214.
Jennings, John and W. H., Greenwood, Ind. Signal device for railways. No. 1,046,597; Dec. 10; Gaz. vol. 185; p. 317.
Jennings, John and W. H., Greenwood, Ind. Railway signal device. No. 1,046,794; Dec. 10; Gaz. vol. 185; p. 388.
Jennings, John F., Cleveland, Ohio. Valve for corrosive liquids. No. 1,021,681; Mar. 26; Sp. p. 5656; Gaz. vol. 176; p. 1018.
Jennings, John H., Merrill, Wis. Saw-set. No. 1,018,974; Feb. 27; Sp. p. 6082; Gaz. vol. 175; p. 1046.
Jennings, Joseph W., Quinton, Okla. Cultivator. No. 1,037,484; Sept. 3; Gaz. vol. 182; p. 105.
Jennings, Lillie, Lamont, Okla. Sewing-rack. No. 1,028,732; June 4; Sp. p. 1427; Gaz. vol. 179; p. 222.
Jennings, Victor H., Worcester, Mass. Cartridge belt or carrier. No. 1,037,177; Aug. 27; Gaz. vol. 181; p. 1042.
Jennings, Victor H., assignor to Mills Woven Cartridge Belt Co., Worcester, Mass. Cartridge-belt. No. 1,015,801; Jan. 30; Sp. p. 5966; Gaz. vol. 174; p. 1043.
Jennings, Victor H., assignor to Mills Woven Cartridge Belt Co., Worcester, Mass. Belt. No. 1,035,350; Aug. 13; Gaz. vol. 181; p. 352.
Jennings, William H. (See Jennings, John and W. H.)
Jennings, William R. (See De Haven, James, assignor.)
Jennison, Samuel S., Cleveland, Ohio, assignor to The Denver Quartz Mill and Crusher Company, Denver, Colo. Quartz-mill. No. 1,014,305; Jan. 9; Sp. p. 2692; Gaz. vol. 174; p. 450.
Jensen, Aage, Eureka, Cal. Check-valve. No. 1,029,931; June 18; Sp. p. 4075; Gaz. vol. 179; p. 708.
Jensen, Alfred N., Emmetsburg, Iowa. Switch for overhead carriers. No. 1,043,599; Nov. 5; Gaz. vol. 184; p. 197.
Jensen, Frantz, Copenhagen, Denmark. Water-current propulsion for vessels. No. 1,023,205; Apr. 16; Sp. p. 3140; Gaz. vol. 177; p. 562.
Jensen, Frederick, Aldene, N. J., D. Conlan, Jr., New York, N. Y., and L. H. Dyer, Greenwich, Conn., assignors to E. Conlan, Brooklyn, N. Y. Supporting device. No. 1,040,341; Oct. 8; Gaz. vol. 183; p. 255.
Jensen, Hans H., Milwaukee, Wis. Rod-bending machine. No. 1,021,932; Apr. 2; Sp. p. 371; Gaz. vol. 177; p. 62.
Jensen, Harry H., Oakland, Cal. Envelop. No. 1,046,467; Dec. 10; Gaz. vol. 185; p. 271.

Alphabetical list of patentees—Continued.

Jensen, Jacob, Chicago, Ill. Broom-band press. No. 1,034,460; Aug. 6; Gaz. vol. 181; p. 20.
Jensen, Jens H., Kearney county, Nebr. Band-cutter and feeder. No. 1,033,901; July 30; Gaz. vol. 180; p. 1191.
Jensen, Jens M. (See Allesöe, Jensen, and Schou.)
Jensen, Jens P., Chicago, Ill. Gearing. No. 1,037,921; Sept. 10; Gaz. vol. 182; p. 283.
Jensen, Julius N., Lincoln, Nebr. Stanchion. No. 1,040,950; Oct. 8; Gaz. vol. 183; p. 463.
Jensen, Lars C. (See Ross and Jensen.)
Jensen, Lars C., Cowley, Wyo. Beet and vegetable loader. No. 1,020,426; Mar. 19; Sp. p. 3007; Gaz. vol. 176; p. 545.
Jensen, Lars C., Cowley, Wyo. Perforating device. No. 1,046,598; Dec. 10; Gaz. vol. 185; p. 317.
Jensen, Niels, Lincoln, assignor of one-half to E. L. Frye, Lawrence, Mass. Shipping-crate. No. 1,015,683; Jan. 23; Sp. p. 5733; Gaz. vol. 174; p. 976.
Jensen, Peter J. (See Johnson, Baueris, Jensen, and Lawshe.)
Jensik, Samuel K., Pueblo, Colo. Calendar. No. 1,048,413; Dec. 24; Gaz. vol. 185; p. 1001.
Jenson, August, assignor to Kenyon Electrical Manufacturing Company, Kenyon, Minn. Rural-mail-delivery device. No. 1,019,795; Mar. 12; Sp. p. 1702; Gaz. vol. 176; p. 297.
Jentzsch, Richard, Chicago, Ill. Self-retaining uterine tube. No. 1,039,061; Sept. 17; Gaz. vol. 182; p. 703.
Jepson, John W., Depew, N. Y., assignor, by mesne assignments, to Gould Coupler Company. Electrical appliance for gas-engines. No. 1,037,485; Sept. 3; Gaz. vol. 182; p. 105.
Jerauld, Frederick N. C. (See Dean, Irwin A., assignor.)
Jerauld, William E., assignor to American Steam Gauge & Valve Manufacturing Company, Boston, Mass. Safety-valve. No. 1,032,482; July 16; Gaz. vol. 180; p. 648.
Jeremias, Charles, Fremont, Ohio. Razor-sharpener. No. 1,038,378; Sept. 10; Gaz. vol. 182; p. 436.
Jeremias, Charles, assignor to H. Clauss, Fremont, Ohio. Safety-razor. No. 1,023,206; Apr. 16; Sp. p. 3142; Gaz. vol. 177; p. 562.
Jeremias, Charles, Fremont, assignor, by mesne assignments, to The Never Fail Company, Toledo, Ohio. Machine for stropping razors. No. 1,047,646; Dec. 17; Gaz. vol. 185; p. 714.
Jernander, Alfred E., Faribault, Minn. Lawn-mower sharpener. No. 1,031,006; July 2; Gaz. vol. 180; p. 55.
Jerne, Hans, Finsbury, London, England. Conservation of eggs. No. 1,043,600; Nov. 5; Gaz. vol. 184; p. 198.
Jernigan, Lee H., assignor of seven one-hundredths to E. H. Carpenter, seven one-hundredths to W. H. Bost, seven one-hundredths to W. E. Weaver, seven one-hundredths to A. M. Cabler, seven one-hundredths to R. R. Fletcher, seven one-hundredths to D. E. Gilman, and seven one-hundredths to R. E. Trickle, Sacramento, Cal. Telegraphic instrument. No. 1,039,410; Sept. 24; Gaz. vol. 182; p. 843.
Jeroch, Willi, Aschersleben, Germany. Obtaining emulsions in combination with solid substances. No. 1,045,982; Dec. 3; Gaz. vol. 185; p. 64.
Jerome, Edgar, Norwalk, Conn. Toilet-paper holder. No. 1,046,070; Dec. 3; Gaz. vol. 185; p. 93.
Jerome, John, Seattle, Wash. Draft-rigging for railway-cars. No. 1,018,323; Feb. 20; Sp. p. 4612; Gaz. vol. 175; p. 792.
Jerram, Arthur E., Leicester, England, assignor to United Shoe Machinery Company, Paterson, N. J. Lasting-machine. No. 1,022,420; Apr. 9; Sp. p. 1408; Gaz. vol. 177; p. 254.
Jerram, Arthur E., Leicester, England, assignor to United Shoe Machinery Company, Paterson, N. J. Shoe-support. No. 1,023,318; Apr. 16; Sp. p. 3366; Gaz. vol. 177; p. 600.
Jerram, Arthur E., Leicester, England, assignor to United Shoe Machinery Company, Paterson, N. J. Edge-setting machine. No. 1,035,445; Aug. 13; Gaz. vol. 181; p. 384.
Jerram, Arthur E., Leicester, England, assignor to United Shoe Machinery Company, Paterson N. J. Punching and eyeleting machine. No. 1,048,836; Dec. 31; Gaz. vol. 185; p. 1187.
Jerrems, Thomas W., St. Paul, Minn., assignor of one-half to E. H. Steiger, Oshkosh, Wis. Feeding mechanism for grass-twine machines. No. 1,018,423; Feb. 27; Sp. p. 4849; Gaz. vol. 175; p. 859.
Jerrems, Thomas W., St. Paul, Minn., assignor of one-half to E. H. Steiger, Oshkosh, Wis. Grass-twine machine. No. 1,023,081; Apr. 9; Sp. p. 2821; Gaz. vol. 177; p. 480.
Jeschke, Edward, assignor to The Jeschke Manufacturing Company, Bellevue, Ohio. Ditching-machine. No. 1,028,218; June 4; Sp. p. 352; Gaz. vol. 179; p. 49.
Jeschke Manufacturing Company, The. (See Jeschke, Edward, assignor.)
Jeschke, Otto C. H., Maywood, Ill. Twisting device for making rope. No. 1,026,511; May 14; Sp. p. 3129; Gaz. vol. 178; p. 517.
Jespersen, Carsten. (See Wienberg, Jörgensen, Jespersen, and Jörgensen.)
Jess, Alexander M., Salem, Oreg. Receptacle-closure. No. 1,032,836; July 16; Gaz. vol. 180; p. 770.
Jess, Marx, Stickney, S. D. Traction-engine. No. 1,038,379; Sept. 10; Gaz. vol. 182; p. 436.
Jess, Peter, Lyons, assignor of one-half to C. A. Evans, Jr., Clinton, Iowa. Wagon hay-rack. No. 1,028,733; June 4; Sp. p. 1429; Gaz. vol. 179; p. 222.
Jessen, Hans, Glückstadt, Germany. Leaf-turner. No. 1,033,802; July 30; Gaz. vol. 180; p. 1155.
Jessop, Earl P., U. S. Navy. Game. No. 1,029,448; June 11; Sp. p. 3007; Gaz. vol. 179; p. 503.
Jessup, George K., New York, N. Y. Seal-fastening. No. 1,048,837; Dec. 31; Gaz. vol. 185; p. 1188.
Jessup, George W., Jr., Newton, Mass. Compound gas-engine. No. 1,026,512; May 14; Sp. p. 3131; Gaz. vol. 178; p. 517.
Jessup, William H., Sheridan, Ind. Cable carrier. No. 1,033,902; July 30; Gaz. vol. 180; p. 1191.
Jester, Marvin H., Denver, Colo. Supporting-frame. No. 1,045,297; Nov. 26; Gaz. vol. 184; p. 873.
Jeter, Clell E., Buna, Tex. Music-leaf turner. No. 1,043,840; Nov. 12; Gaz. vol. 184; p. 310.
Jett, Elbert L. (See Allen, Herbert O., assignor.)
Jett, Roy M., Greenville, Ill. Self-heating soldering-iron. No. 1,032,837; July 16; Gaz. vol. 180; p. 770.
Jetté, Homer, Roxton Pond, Quebec, Canada. Door-fastener. No. 1,014,755; Jan. 16; Sp. p. 3702; Gaz. vol. 174; p. 632.
Jetter, Julius, Camden, N. J. Needle-holder for talking-machines. No. 1,034,387; July 30; Gaz. vol. 180; p. 1361.
Jetter, Julius, assignor to Victor Talking Machine Company, Camden, N. J. Talking-machine. No. 1,013,170; Jan. 2; Sp. p. 165; Gaz. vol. 174; p. 28.
Jevert, Carl J., Chicago, Ill. Window-lock. No. 1,020,205; Mar. 12; Sp. p. 2565; Gaz. vol. 176; p. 435.
Jewel Electric Co. (See Haschke, Julius E., assignor.)
Jewell, Clay, assignor to The Jewell Electric Company, Baltimore, Md. Motor-starter. No. 1,035,593; Aug. 13; Gaz. vol. 181; p. 434.
Jewell Electric Company. The. (See Jewell, Clay, assignor.)
Jewell Manufacturing Company, The. (See Belden, David E., assignor.)
Jewett, Eugene C., Eagle Grove, Iowa. Spade-step. No. 1,018,424; Feb. 27; Sp. p. 4851; Gaz. vol. 175; p. 859.
Jewett, Eugene C., Eagle Grove, Iowa. Grading-machine. No. 1,021,047; Mar. 26; Sp. p. 4338; Gaz. vol. 176; p. 805.
Jewett, Frank B., Wyoming, N. J., assignor to American Telephone and Telegraph Company. Insulator. No. 1,033,019; July 16; Gaz. vol. 180; p. 829.
Jewett, Nathan H., *et al.* (See Adsit, Charles G., assignor.)
Jewett, Robert A. (See Greenlaw and Jewett.)
Jewitt, George T., Philadelphia, Pa. Apparatus for treating skins. No. 1,027,545; May 28; Sp. p. 5388; Gaz. vol. 178; p. 944.
Jinbo, Masataro, and K. Hoshizaki, Kansas City, Mo. Making table sauces. No. 1,025,402; May 7; Sp. p. 655; Gaz. vol. 178; p. 103.
Jirasek, John, Newark, N. J. Flying-machine or aeroplane. No. 1,045,850; Dec. 3; Gaz. vol. 185; p. 19.
Jirotka, Bohumil, assignor to F. Loewenstein, Berlin, Germany. Tin-opener. No. 1,033,803; July 30; Gaz. vol. 180; p. 1155.
Jno. B. Lee Company *et al.* (See Larson, John B., assignor.)
Jno. Williams, Inc. (See Lynch, George B., assignor.)
Job Day and Sons Limited. (See Hadcock, James, assignor.)
Job, Jacob B., Cleveland, Ohio. Door-clamp. No. 1,042,232; Oct. 22; Gaz. vol. 183; p. 965.
Jobe, Walter H., Kansas City, Mo. Attaching device. No. 1,045,558; Nov. 26; Gaz. vol. 184; p. 967.
Jobson, Raymond L., Kinston, N. C. Hot-bearing alarm. No. 1,035,710; Aug. 13; Gaz. vol. 181; p. 472.
Jockmus, Charles H., Ansonia, Conn. Wind-shield clamp. No. 1,015,386; Jan. 23; Sp. p. 5072; Gaz. vol. 174; p. 874.
Joeckel, Henry F., Camp Point, Ill. Telephone system. No. 1,018,666; Feb. 27; Sp. p. 5426; Gaz. vol. 175; p. 940.
Joecken, Peter J., assignor to Falls Machine Company, Sheboygan Falls, Wis. Planer feed attachment. No. 1,043,436; Nov. 5; Gaz. vol. 184; p. 139.
Johannes, James, Calcutta, India. Treating lac. No. 1,024,783; Apr. 30; Sp. p. 6557; Gaz. vol. 177; p. 1155.
Johannesen, Svend E., Pittsfield, Mass., assignor to General Electric Company. Bell-ringing transformer. No. 1,021,252; Mar. 26; Sp. p. 4776; Gaz. vol. 176; p. 872.
Johanning, Friedrick, and L. Richnow, Cortez, Colo. Ditching-machine. No. 1,016,998; Feb. 13; Sp. p. 1710; Gaz. vol. 175; p. 298.
Johannsen, Otto. (See Müller, Johannsen, and Pape.)
Johansen, Mikkel, Maplewood, Mo. Lawn-mower sharpener. No. 1,047,814; Dec. 17; Gaz. vol. 185; p. 773.
Johanson, Emil G., assignor to J. Martenson, Chicago, Ill. Lamp chimney or globe. No. 1,030,818; June 25; Sp. p. 6288; Gaz. vol. 179; p. 1059.
Johanson, Gustaf E., Johannedal, Sweden. Bookkeeping-machine. No. 1,034,243; July 30; Gaz. vol. 180; p. 1311.

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Johanson, Gustaf E., Sundsvall, Sweden. Bookkeeping-machine. No. 1,043,601; Nov. 5; Gaz. vol. 184; p. 198.
Johansson, Karl W., Kneippbaden, Sweden. Milking-machine. No. 1,021,192; Mar. 26; Sp. p. 4641; Gaz. vol. 176; p. 851.
John Aktiengesellschaft, J. A. (See Klein, Albin, assignor.)
John B. Morris Machine Tool Company, The. (See Beeler, Herbert L., assignor.)
John C. Moore Corporation. (See Moore, Gaius C., assignor.)
John Church Company, The. (See Leisch, Joseph, assignor.)
John Douglas Company, The. (See McNeil, Daniel W., assignor.)
John, Frederick H., Middleport, Pa. Spring-wheel. No. 1,025,981; May 14; Sp. p. 1943; Gaz. vol. 178; p. 335.
John H. Gillett & Sons. (See McKerrow, Charles A., assignor.)
John Hetherington and Sons Limited. (See Tomlinson, Albert, assignor.)
John Lemb and Son. (See Lemb, William, assignor.)
John M. Burby Company. (See Burby, John M., assignor.)
John S. Emery & Company. (See Emery and Hunter, assignors.)
John Simmons Company. (See Noble, George W., assignor.)
John Wood Manufacturing Company. (See Gilbert, Harry E., assignor.)
Johns, Charles W., Jerseyville, Ill. Smoke-consumer. No. 1,049,100; Dec. 31; Gaz. vol. 185; p. 1278.
Johns, H. W. (See Le Pontois, Leon J., assignor.)
Johns-Pratt Company, The. (See Cole, Robert C., assignor.)
Johns-Pratt Company, The. (See Hooker, Duncan C., assignor.)
Johns, William S., Norwood, Ohio. Computing-machine. No. 1,031,852; July 9; Gaz. vol. 180; p. 391.
Johns, William S., Norwood, Ohio. Computing-machine. No. 1,048,973; Dec. 31; Gaz. vol. 185; p. 1234.
Johnsen, Charles H., Harvey, Ill. Extension-table. No. 1,031,557; July 2; Gaz. vol. 180; p. 246.
Johnsen, John E., Chicago, Ill. Drinking-fountain. No. 1,032,142; July 9; Gaz. vol. 180; p. 487.
Johnson, A. Henry. (See Lindbeck, Edward C., assignor.)
Johnson, Adolph, Montclair, N. J. Tennis-court corner-marker. No. 1,037,147; Aug. 27; Gaz. vol. 181; p. 1032.
Johnson, Albert F., McKeesport, Pa. Computing-scale. No. 1,026,266; May 14; Sp. p. 2590; Gaz. vol. 178; p. 434.
Johnson, Albert L., Hamburg, N. Y. Electric welding. No. 1,039,135; Sept. 24; Gaz. vol. 182; p. 746.
Johnson, Albert L., Hamburg, N. Y. Electric welding. No. 1,039,137; Sept. 24; Gaz. vol. 182; p. 747.
Johnson, Albert L., Hamburg, N. Y. Electric welding. No. 1,039,138; Sept. 24; Gaz. vol. 182; p. 747.
Johnson, Albert L., Hamburg, N. Y., assignor to Corrugated Bar Company, St. Louis, Mo. Securing-clip for roof and wall structures. No. 1,029,612; June 18; Sp. p. 3342; Gaz. vol. 179; p. 595.
Johnson, Albert L., Hamburg, N. Y., assignor to Corrugated Bar Company, St. Louis, Mo. Securing-clip for wall structures. No. 1,039,136; Sept. 24; Gaz. vol. 182; p. 747.
Johnson, Albert W., Cleveland, Ohio. Paper-holder. No. 1,016,270; Feb. 6; Sp. p. 60; Gaz. vol. 175; p. 12.
Johnson, Alex B. and C. L., Baker, Oreg. Document-file. No. 1,016,634; Feb. 6; Sp. p. 933; Gaz. vol. 175; p. 139.
Johnson, Alex B. and C. L., Baker, Oreg. Book-holder. No. 1,016,635; Feb. 6; Sp. p. 934; Gaz. vol. 175; p. 140.
Johnson, Alexander. (See Ulmen and Johnson.)
Johnson, Alexander L., *et al.* (See Pieper and Case, assignors.)
Johnson, Alfred C., *et al.* (See Henneuse, Clarence A., assignor.)
Johnson, Allen V. (See Kriner, Lonzo D., assignor.)
Johnson, Alpha, Nokomis, assignor of one-half to C. Zimmermann, Ohlman, Ill. Cover. No. 1,038,591; Sept. 17; Gaz. vol. 182; p. 545.
Johnson, Andrew, Jamestown, N. Y. Sheet-metal door and the like. No. 1,039,292; Sept. 24; Gaz. vol. 182; p. 803.
Johnson, Andrew C., Racine, Wis. Hinge. No. 1,045,851; Dec. 3; Gaz. vol. 185; p. 20.
Johnson, Andrew M. (See Bond, William A., assignor.)
Johnson, Andrew N., Centerville, Tenn. Reversible car-replacer. No. 1,040,206; Oct. 1; Gaz. vol. 183; p. 180.
Johnson, Archie L. and K., Losantville, Ind. Account-register. No. 1,021,152; Mar. 26; Sp. p. 4555; Gaz. vol. 176; p. 838.
Johnson, Archie N., Kansas City, Mo. Moving sign. No. 1,018,975; Feb. 27; Sp. p. 6085; Gaz. vol. 175; p. 1047.
Johnson, Aron, New York, N. Y. Compensator. No. 1,016,155; Jan. 30; Sp. p. 6708; Gaz. vol. 174; p. 1166.
Johnson, Aron, New York, N. Y. Cap-feeding mechanism. No. 1,042,922; Oct. 29; Gaz. vol. 183; p. 1231.
Johnson, Arthur, Chicago, Ill., assignor to International Harvester Company. Motor attachment for harvesting-machines. No. 1,024,201; Apr. 23; Sp. p. 5248; Gaz. vol. 177; p. 919.
Johnson, Arthur D., Philadelphia, Pa. Nut-lock. No. 1,022,318; Apr. 2; Sp. p. 1175; Gaz. vol. 177; p. 189.
Johnson, Arthur H., Epsom, England, and L. W. Williams, Glasgow, Scotland. Gage-bar. No. 1,018,245; Feb. 20; Sp. p. 4460; Gaz. vol. 175; p. 766.
Johnson, Arthur L., St. Petersburg, Fla. Combined door and show-case. No. 1,035,015; Aug. 6; Gaz. vol. 181; p. 204.
Johnson, Arthur O., Liberty, and J. A. Eby, Excelsior Springs, Mo. Telephone-directory. No. 1,028,117; June 4; Sp. p. 46; Gaz. vol. 179; p. 11.
Johnson, August, Gulliver, Mich. Keeper for door and gate latches. No. 1,043,236; Nov. 5; Gaz. vol. 184; p. 68.
Johnson, August, South Chicago, Ill. Crane-hook-locking attachment. No. 1,046,795; Dec. 10; Gaz. vol. 185; p. 388.
Johnson, Axel, San Francisco, Cal., assignor to American Can Company. Combined can-body flanging and double-seaming machine. No. 1,040,951; Oct. 8; Gaz. vol. 183; p. 464.
Johnson, Axel, Oakland, Cal., assignor to American Can Company. Can-head-seaming mechanism. No. 1,040,952; Oct. 8; Gaz. vol. 183; p. 464.
Johnson, Axel, Oakland, Cal., assignor to American Can Company. Can-end-flanging mechanism. No. 1,040,953; Oct. 8; Gaz. vol. 183; p. 464.
Johnson, Benjamin W., Crafton, Pa. Latches for double doors. No. 1,013,553; Jan. 2; Sp. p. 1009; Gaz. vol. 174; p. 162.
Johnson, Benona, Elmira, N. Y. Newspaper-vending machine. No. 1,022,680; Apr. 9; Sp. p. 1964; Gaz. vol. 177; p. 341.
Johnson, Billie, Temple, Tex. Machine for picking and cleaning cotton. No. 1,022,142; Apr. 2; Sp. p. 827; Gaz. vol. 177; p. 132.
Johnson-Bradford Safe Company. (See Johnson, Pierce X., assignor.)
Johnson, Burdette H., Moores, assignor to The American Pulley Company, Philadelphia, Pa. Pulley. No. 1,017,152; Feb. 13; Sp. p. 2056; Gaz. vol. 175; p. 353.
Johnson, Carl, Chicago, Ill. Acetylene-torch. No. 1,020,559; Mar. 19; Sp. p. 3294; Gaz. vol. 176; p. 588.
Johnson, Carl, St. Paul, Minn. Piano. No. 1,032,608; July 16; Gaz. vol. 180; p. 690.
Johnson, Carl E., assignor to United States Electrical Manufacturing Company, Los Angeles, Cal. Brake attachment for sewing-machines. No. 1,027,339; May 21; Sp. p. 4965; Gaz. vol. 178; p. 836.
Johnson, Carl E., assignor of one-half to C. E. Payne, Los Angeles, Cal. Magneto. No. 1,038,592; Sept. 17; Gaz. vol. 182; p. 545.
Johnson, Carl F., Milwaukee, Wis. Flushing device. No. 1,029,687; June 18; Sp. p. 3507; Gaz. vol. 179; p. 622.
Johnson, Carl F., Milwaukee, Wis. Flushing device. No. 1,029,688; June 18; Sp. p. 3510; Gaz. vol. 179; p. 622.
Johnson, Carl G., Manchester, N. H., assignor to United Shoe Machinery Company, Paterson, N. J. Lasting-plate clamp. No. 1,022,421; Apr. 9; Sp. p. 1421; Gaz. vol. 177; p. 255.
Johnson, Carl J., De Kalb, Ill. Jar-closure. No. 1,040,207; Oct. 1; Gaz. vol. 183; p. 180.
Johnson, Carl O. (See Newcomer and Johnson.)
Johnson, Carl V., Goldfield, Nev. Multiplex-power flying-machine. No. 1,034,242; July 30; Gaz. vol. 180; p. 1310.
Johnson, Carl V., Goldfield, Nev. Flying-machine. No. 1,036,249; Aug. 20; Gaz. vol. 181; p. 697.
Johnson, Carl W., St. Joseph, Mo. Orchard-heater and vaporizer. No. 1,024,633; Apr. 30; Sp. p. 6258; Gaz. vol. 177; p. 1101.
Johnson, Charles. (See Alsterberg, Henning, assignor.)
Johnson, Charles, Sunbury, Iowa. Calf-weaner. No. 1,033,903; July 30; Gaz. vol. 180; p. 1191.
Johnson, Charles, Dent, Minn. Detachable fence-post point. No. 1,038,147; Sept. 10; Gaz. vol. 182; p. 358.
Johnson, Charles, Auburn, and C. Frank, Seneca Falls, N. Y. Manure-spreader. No. 1,025,403; May 7; Sp. p. 657; Gaz. vol. 178; p. 103.
Johnson, Charles, and A. Sahlen, Chicago, Ill. Elevator device. No. 1,025,873; May 7; Sp. p. 1687; Gaz. vol. 178; p. 263.
Johnson, Charles A., Middletown, Cal. Pin. No. 1,020,648; Mar. 19; Sp. p. 3494; Gaz. vol. 176; p. 617.
Johnson, Charles A., Boston, Mass. Steam-engine. No. 1,028,466; June 4; Sp. p. 887; Gaz. vol. 179; p. 134.
Johnson, Charles B., Columbus, Ohio. Portable fence. No. 1,034,461; Aug. 6; Gaz. vol. 181; p. 20.
Johnson, Charles E., Salt Lake City, Utah. Photographic-printing frame. No. 1,027,482; May 28; Sp. p. 5258; Gaz. vol. 178; p. 922.
Johnson, Charles E., Denver, Colo. Spark-plug. No. 1,029,613; June 18; Sp. p. 3344; Gaz. vol. 179; p. 596.
Johnson, Charles E., Havelock, Nebr. Blowpipe. No. 1,038,381; Sept. 10; Gaz. vol. 182; p. 437.

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Johnson, Charles F., *et al.* (See Buchanan, Frank L., assignor.)
Johnson, Charles H., Eureka, Utah. Propeller. No. 1,024,339; Apr. 23; Sp. p. 5507; Gaz. vol. 177; p. 965.
Johnson, Charles I., Leshara, Nebr. Wagon end-gate. No. 1,037,628; Sept. 3; Gaz. vol. 182; p. 151.
Johnson, Charles L. (See Johnson, Alex B. and C. L.)
Johnson, Charles L., Kangley, Wash. Saw-setting machine. No. 1,017,761; Feb. 20; Sp. p. 3333; Gaz. vol. 175; p. 596.
Johnson, Charles N., Vincennes, assignor of one-third to S. P. Ruble, Fritzen, Ind. Centrifugal governor for motors. No. 1,033,248; July 23; Gaz. vol. 180; p. 947.
Johnson, Charles O., Mouille Point, Cape Town, Cape Colony. Elastic-fluid turbine. No. 1,018,667; Feb. 27; Sp. p. 5428; Gaz. vol. 175; p. 941.
Johnson, Charles W., Houston, Tex. Cistern-guard. No. 1,021,410; Mar. 26; Sp. p. 5132; Gaz. vol. 176; p. 928.
Johnson, Charles X., Morris Run, Pa. Car-starter. No. 1,022,089; Apr. 2; Sp. p. 717; Gaz. vol. 177; p. 114.
Johnson, Christ J., assignor of one-half to F. J. Brandl, Clear Lake, Wis. Grain-car door. No. 1,038,148; Sept. 10; Gaz. vol. 182; p. 358.
Johnson, Christian A., assignor of one-fourth to J. Berner, Laramie, Wyo. Can-opener. No. 1,047,066; Dec. 10; Gaz. vol. 185; p. 476.
Johnson, Clarence D. (See Ellmann, Ernest E., assignor.)
Johnson Combined Pressing & Refinishing Iron Company. (See Johnson, Fritz, assignor.)
Johnson, Cornelius, Des Moines, Iowa. Clothes-line reel and stretcher. No. 1,027,655; May 28; Sp. p. 5613; Gaz. vol. 178; p. 980.
Johnson, Dade, Lemonville, Mo. Stove-grate. No. 1,042,683; Oct. 29; Gaz. vol. 183; p. 1149.
Johnson, Daniel, Elgin, Ill. Sputum-cup. No. 1,031,648; July 2; Gaz. vol. 180; p. 277.
Johnson, Eddie E., Svea, Minn. Oar. No. 1,034,462; Aug. 6; Gaz. vol. 181; p. 20.
Johnson, Edward, assignor of one-half to J. Finkbeiner, Hawthorn, Pa. Saw-setting machine. No. 1,029,614; June 18; Sp. p. 3347; Gaz. vol. 179; p. 596.
Johnson, Edward E., St. Paul, Minn. Railograph. No. 1,016,999; Feb. 13; Sp. p. 1711; Gaz. vol. 175; p. 299.
Johnson, Edward E., St. Paul, Minn. Well-screen. No. 1,040,342; Oct. 8; Gaz. vol. 183; p. 255.
Johnson, Edward H. (See Lang, Johan G. V., assignor.)
Johnson, Edward H., assignor to The A. & J. Manufacturing Co., Binghamton, N. Y. Implement for beating eggs, whipping cream, or for mixing ingredients. No. 1,025,982; May 14; Sp. p. 1944; Gaz. vol. 178; p. 336.
Johnson, Edward M., Jersey City, N. J. Siphon. No. 1,031,007; July 2; Gaz. vol. 180; p. 55.
Johnson, Edward S., Davenport, Iowa. Structure for use in building embankments in water. No. 1,048,700; Dec. 31; Gaz. vol. 185; p. 1141.
Johnson, Edward W., assignor to S. Parish and B. T. Fairchild, Portville, N. Y. Cattle-stanchion. No. 1,020,354; Mar. 12; Sp. p. 2842; Gaz. vol. 176; p. 481.
Johnson, Eldridge R., Philadelphia, Pa., assignor to Victor Talking Machine Company. Sound-conveying device for talking-machines. No. 1,015,321; Jan. 23; Sp. p. 4921; Gaz. vol. 174; p. 852.
Johnson, Eldridge R., Philadelphia, Pa., assignor to Victor Talking Machine Company. Sound-box for talking-machines. No. 1,041,799; Oct. 22; Gaz. vol. 183; p. 820.
Johnson, Eldridge R., Merion, Pa., assignor to Victor Talking Machine Company. Record for talking-machines. No. 1,016,271; Feb. 6; Sp. p. 62; Gaz. vol. 175; p. 13.
Johnson, Eldridge R., Merion, Pa., assignor to Victor Talking Machine Company. Motor for talking-machines. No. 1,020,206; Mar. 12; Sp. p. 2566; Gaz. vol. 176; p. 435.
Johnson, Eldridge R., Merion, Pa., assignor to Victor Talking Machine Company. Talking-machine. No. 1,034,015; July 30; Gaz. vol. 180; p. 1232.
Johnson, Eldridge R., Merion, Pa., and J. C. English, Camden, N. J., assignors to Victor Talking Machine Company. Talking-machine. No. 1,015,322; Jan. 23; Sp. p. 4924; Gaz. vol. 174; p. 852
Johnson, Elmer H., North Bennington, Vt. String-fastener for packages. No. 1,027,656; May 28; Sp. p. 5614; Gaz. vol. 178; p. 980.
Johnson, Elton N., Hornell, N. Y. Portable wardrobe. No. 1,048,701; Dec. 31; Gaz. vol. 185; p. 1141.
Johnson, Emery. (See Stanbrough and Johnson.)
Johnson, Eric, Seattle, Wash. Excavating-scraper. No. 1,017,293; Feb. 13; Sp. p. 2355; Gaz. vol. 175; p. 401.
Johnson, Eric W. (See Blackmer and Johnson.)
Johnson, Ernest C., Hill City, S. D. Grinding-mill. No. 1,016,272; Feb. 6; Sp. p. 63; Gaz. vol. 175; p. 13.
Johnson, Ernest V., Chicago, Ill. Fireproof floor construction for buildings. No. 1,021,780; Apr. 2; Sp. p. 49; Gaz. vol. 177; p. 11.
Johnson, F. Amos, *et al.* (See Brand, John S., assignor.)
Johnson, Francis M., Bowersville, Ga. Plow-stock. No. 1,020,908; Mar. 19; Sp. p. 4036; Gaz. vol. 176; p. 705.
Johnson, Frank, New York, N. Y. Shuttle-guard. No. 1,019,050; Mar. 5; Sp. p. 84; Gaz. vol. 176; p. 17.
Johnson, Frank, Seattle, Wash. Game apparatus. No. 1,032,336; July 9; Gaz. vol. 180; p. 554.
Johnson, Frank, Seattle, Wash. Toy log-rolling apparatus. No. 1,035,351; Aug. 13; Gaz. vol. 181; p. 352.
Johnson, Frank C. (See Roberts and Peterson, assignors.)
Johnson, Frank E., Chicago, Ill. Rail-bond. No. 1,020,826; Mar. 19; Sp. p. 3882; Gaz. vol. 176; p. 678.
Johnson, Frank M., *et al.* (See De Mars, Joseph, assignor.)
Johnson, Frederick, Warba, Minn. Bed-spring tightener. No. 1,033,702; July 23; Gaz. vol. 180; p. 1095.
Johnson, Fritz, assignor to Johnson Combined Pressing & Refinishing Iron Company, Racine, Wis. Flat-iron. No. 1,017,099; Feb. 13; Sp. p. 1947; Gaz. vol. 175; p. 335.
Johnson, Garrett P., Rochester, N. Y. Label-holder for mail-boxes. No. 1,044,390; Nov. 12; Gaz. vol. 184; p. 500.
Johnson, George A. (See Mitchell and Johnson.)
Johnson, George A., assignor to W. H. Miner, Chicago, Ill. Draft-yoke for railway-car draft-rigging. No. 1,038,758; Sept. 17; Gaz. vol. 182; p. 603.
Johnson, George B., Chicago, Ill. Window-reflector. No. 1,035,594; Aug. 13; Gaz. vol. 181; p. 434.
Johnson, George H., Rose Hill, N. Y. Tool-sharpening implement. No. 1,030,662; June 25; Sp. p. 5868; Gaz. vol. 179; p. 1003.
Johnson, George S., assignor of forty-nine one-hundredths to J. P. Roots, Washington, D. C. Power-transmitting mechanism. No. 1,042,005; Oct. 22; Gaz. vol. 183; p. 890.
Johnson, George W., Waveland township, Pottawattamie county, Iowa. Scale-rack. No. 1,034,622; Aug. 6; Gaz. vol. 181; p. 73.
Johnson, Gustaf, Pigeon Cove, assignor to C. E. Hjarne, Beverly, Mass. Locking device for registering mechanisms. No. 1,019,476; Mar. 5; Sp. p. 1078; Gaz. vol. 176; p. 159.
Johnson, Gustaf, and N. J. Russell, Rockford, Ill. Pump. No. 1,022,556; Apr. 9; Sp. p. 1695; Gaz. vol. 177; p. 299.
Johnson, Gustaf J. (See Westerström, Allan F., assignor.)
Johnson, Gustav, Cleveland, Ohio. Adjustable scaffold. No. 1,035,595; Aug. 13; Gaz. vol. 181; p. 434.
Johnson, Gustave T., Chicago, Ill. Fluid-clutch. No. 1,017,216; Feb. 13; Sp. p. 2208; Gaz. vol. 175; p. 375.
Johnson, Gustavus J., assignor to E. C. Tourtelot, Chicago, Ill. Secondary battery. No. 1,029,015; June 11; Sp. p. 2064; Gaz. vol. 179; p. 355.
Johnson, Hans O., and J. H. Nicholson, Sacramento, Cal. Railway-toilet. No. 1,030,782; June 25; Sp. p. 6186; Gaz. vol. 179; p. 1046.
Johnson, Harrie H., New York, N. Y. Adjustable support for receptacles. No. 1,030,090; June 18; Sp. p. 4413; Gaz. vol. 179; p. 762.
Johnson, Harry, Newcastle-under-Lyme, England. Means for gaging or measuring tiles. No. 1,013,396; Jan. 2; Sp. p. 680; Gaz. vol. 174; p. 107.
Johnson, Henry, assignor to Verdon Cutts & Hoult, Sheffield, England. Apparatus for the production of steel. No. 1,032,217; July 9; Gaz. vol. 180; p. 513.
Johnson, Henry C., Long Island City, assignor of one-half to F. A. Peck, New York, N. Y. Cuff-button. No. 1,046,422; Dec. 3; Gaz. vol. 185; p. 218.
Johnson, Howard, Littell, Wash. Friction-clutch. No. 1,024,006; Apr. 23; Sp. p. 4789; Gaz. vol. 177; p. 850.
Johnson, Iens C., Tonica, Ill. Crossing-gate. No. 1,024,899; Apr. 30; Sp. p. 6798; Gaz. vol. 177; p. 1195.
Johnson, Isaac R., Milwaukee, Wis. Oil-can holder. No. 1,018,567; Feb. 27; Sp. p. 5229; Gaz. vol. 175; p. 909.
Johnson, Ivar, assignor of one-half to C. E. Ide, Redlands, Cal. Automatic firearm. No. 1,028,884; June 11; Sp. p. 1767; Gaz. vol. 179; p. 309.
Johnson, Iver, Seattle, Wash. Door-hanger. No. 1,046,071; Dec. 3; Gaz. vol. 185; p. 93.
Johnson, Jack, assignor of two-thirds to Herring Brothers, Bolton, Miss. Insect-catcher. No. 1,016,156; Jan. 30; Sp. p. 6710; Gaz. vol. 174; p. 1166.
Johnson, James B., assignor of one-half to G. Smith, Springfield, Mass. Lath-supporting device. No. 1,036,522; Aug. 20; Gaz. vol. 181; p. 792.
Johnson, James N. and J. H., Flomaton, Ala. Motor-wheel. No. 1,045,150; Nov. 26; Gaz. vol. 184; p. 822.
Johnson, James S., Le Roy, Kans. Acetylene-gas generator. No. 1,025,404; May 7; Sp. p. 658; Gaz. vol. 178; p. 103.
Johnson, James W., Detroit, Mich. Ladder-support. No. 1,027,546; May 28; Sp. p. 5392; Gaz. vol. 178; p. 944.
Johnson, Jay M., Chicago, Ill. Wheel. No. 1,036,633; Aug. 27; Gaz. vol. 181; p. 861.
Johnson, Jesse B., assignor to S. Lubin, Philadelphia, Pa. Moving-picture machine. No. 1,027,735; May 28; Sp. p. 5773; Gaz. vol. 178; p. 1006.
Johnson, Jesse W. (See Rupp and Johnson.)
Johnson, Jessie C., *et al.* (See Burrows, Clarence B., assignor.)
Johnson, John A. (See Eastlund and Johnson.)

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Johnson, John A., Oklahoma, Okla. Combination shade and curtain fixture for windows. No. 1,019,796; Mar. 12; Sp. p. 1705; Gaz. vol. 176; p. 297.
Johnson, John A., Black Diamond, Cal. Spud-operating mechanism for dredgers. No. 1,021,933; Apr. 2; Sp. p. 373; Gaz. vol. 177; p. 62.
Johnson, John A., New Britain, Conn. Clamping device. No. 1,021,986; Apr. 2; Sp. p. 502; Gaz. vol. 177; p. 80.
Johnson, John A., Portland, Oreg. Grinding-gage. No. 1,040,687; Oct. 8; Gaz. vol. 183; p. 379.
Johnson, John C. F., and J. Hartman, Tacoma, Wash. Tool-handle. No. 1,021,316; Mar. 26; Sp. p. 4898; Gaz. vol. 176; p. 895.
Johnson, John E., Brainerd, Minn. Screen-door attachment. No. 1,025,746; May 7; Sp. p. 1410; Gaz. vol. 178; p. 221.
Johnson, John E., assignor to The Crescent Tool Company, Jamestown, N. Y. Nurling-machine. No. 1,036,250; Aug. 20; Gaz. vol. 181; p. 698.
Johnson, John F., Jamestown, N. Y. Pneumatic-rubber-tire protector. No. 1,036,251; Aug. 20; Gaz. vol. 181; p. 698.
Johnson, John H. (See Johnson, James N. and J. H.)
Johnson, John H. L., assignor to Springfield Plant-Bed Steaming Company, Springfield, Tenn. Tobacco-bed-steaming apparatus. No. 1,021,529; Mar. 26; Sp. p. 5388; Gaz. vol. 176; p. 970.
Johnson, John H. L., assignor to Springfield Plant-Bed Steaming Company, Springfield, Tenn. Steaming tobacco-beds. No. 1,021,530; Mar. 26; Sp. p. 5390; Gaz. vol. 176; p. 970.
Johnson, John L., Milwaukee, Wis., assignor to Allis-Chalmers Company. Transformer. No. 1,030,091; June 18; Sp. p. 4415; Gaz. vol. 179; p. 762.
Johnson, John N., Albuquerque, N. Mex. Delivering apparatus. No. 1,037,629; Sept. 3; Gaz. vol. 182; p. 151.
Johnson, John R., Chicago, Ill. Form-holder for concrete construction. No. 1,048,838; Dec. 31; Gaz. vol. 185; p. 1188.
Johnson, John S., Fayette, Mich. Culinary device. No. 1,014,479; Jan. 9; Sp. p. 3063; Gaz. vol. 174; p. 508.
Johnson, John T., Williamstown, W. Va. Fluid-spraying device. No. 1,023,852; Apr. 23; Sp. p. 4445; Gaz. vol. 177; p. 798.
Johnson, John W., W. A. Baueris, P. J. Jensen, and W. D. Lawshe, Seattle, Wash. Bending appliance. No. 1,026,916; May 21; Sp. p. 4030; Gaz. vol. 178; p. 691.
Johnson & Johnson. (See Marcus, Martin H., assignor.)
Johnson, Joseph D., Boston, Mass. Electric switch. No. 1,046,796; Dec. 10; Gaz. vol. 185; p. 389.
Johnson, Justus, Bethlehem, Pa. Straightening-press. No. 1,032,218; July 9; Gaz. vol. 180; p. 513.
Johnson, Justus, Bethlehem, Pa. Attachment for milling-machines. No. 1,040,954; Oct. 8; Gaz. vol. 183; p. 465.
Johnson, Kelly. (See Johnson, Archie L. and K.)
Johnson, Lawrence E. (See Erickson, Edward, assignor.)
Johnson, Lawrence E., and J. Crowe, assignors to Specialty Shoe Machinery & Tool Company, St. Joseph, Mo. Shoe-nailing machine. No. 1,015,323; Jan. 23; Sp. p. 4930; Gaz. vol. 174; p. 853.
Johnson, Leo C., Spokane, Wash. Device for sharpening knives. No. 1,041,631; Oct. 15; Gaz. vol. 183; p. 724.
Johnson, Lewis B., Benson, Minn. Suspender attachment. No. 1,040,955; Oct. 8; Gaz. vol. 183; p. 465.
Johnson, Lewis P., *et al.* (See Deviese, John T., assignor.)
Johnson, Lorenzo, Louisville, Ky. Tool-sharpener. No. 1,016,072; Jan. 30; Sp. p. 6562; Gaz. vol. 174; p. 1139.
Johnson, Manfred J., Naugatuck, Conn. Electric furnace. No. 1,035,596; Aug. 13; Gaz. vol. 181; p. 435.
Johnson, Mark W., Jr., Birmingham, Ala. Dry cleaner for gas. No. 1,024,784; Apr. 30; Sp. p. 6558; Gaz. vol. 177; p. 1155.
Johnson, Mark W., Jr., Birmingham, Ala. Gas-washer. No. 1,034,463; Aug. 6; Gaz. vol. 181; p. 20.
Johnson, Mark W., Jr., assignor of one-half to K. Landgrebe, Ensley, Ala. Furnace gas-valve. No. 1,024,785; Apr. 30; Sp. p. 6565; Gaz. vol. 177; p. 1155.
Johnson, Martin M., assignor of one-half to A. L. Van Horne, Dayton, Ohio. Base-ball-game apparatus. No. 1,033,249; July 23; Gaz. vol. 180; p. 948.
Johnson, Mary E., trustee. (See Cobb, Lyman H., assignor.)
Johnson, Merton W., Assumption, Ill. Semen-extractor. No. 1,048,316; Dec. 24; Gaz. vol. 185; p. 969.
Johnson, Milton A., Denison, Iowa. Wrench. No. 1,017,550; Feb. 13; Sp. p. 2898; Gaz. vol. 175; p. 490.
Johnson, Morton L., assignor to Corwin Telephone Manufacturing Company, Chicago, Ill. Telephony. No. 1,045,034; Nov. 19; Gaz. vol. 184; p. 754.
Johnson, Nathaniel J., and R. L. Stalaus, Atwood, Okla. Churn. No. 1,034,244; July 30; Gaz. vol. 180; p. 1311.
Johnson, Nels, Batavia, Ill. Flume-joint. No. 1,018,828; Feb. 27; Sp. p. 5776; Gaz. vol. 175; p. 997.
Johnson, Nels, Batavia, Ill. Hoop-lug. No. 1,018,829; Feb. 27; Sp. p. 5777; Gaz. vol. 175; p. 998.
Johnson, Nels, South Stillwater, Minn. Fire-escape. No. 1,041,090; Oct. 15; Gaz. vol. 183; p. 545.
Johnson, Nels, Bible Grove, Ill. Concrete and cement mixer. No. 1,048,317; Dec. 24; Gaz. vol. 185; p. 969.
Johnson, Nels A., Jamestown, N. Y. Cutting-off tool. No. 1,019,477; Mar. 5; Sp. p. 1080; Gaz. vol. 176; p. 160.
Johnson, Niel V., Seattle, Wash. Hydraulic motor. No. 1,024,340; Apr. 23; Sp. p. 5509; Gaz. vol. 177; p. 965.
Johnson, Niel V., Tacoma, Wash. Water-motor. No. 1,024,341; Apr. 23; Sp. p. 5510; Gaz. vol. 177; p. 965.
Johnson, Olaf, New York, assignor of one-half to J. G. Wills, Richmond Hill, Long Island, N. Y. Non-refillable bottle. No. 1,037,012; Aug. 27; Gaz. vol. 181; p. 987.
Johnson, Oliver J., Wheeling, W. Va. Grinding-machine. No. 1,014,306; Jan. 9; Sp. p. 2694; Gaz. vol. 174; p. 450.
Johnson, Oliver W., Geneva, Ohio. Flying-machine. No. 1,034,245; July 30; Gaz. vol. 180; p. 1312.
Johnson, Olof M., and E. R. McConnell, Denver, Colo. Adjusting mechanism. No. 1,044,055; Nov. 12; Gaz. vol. 184; p. 385.
Johnson, Oscar, Chicago, Ill. Locomotive-tender. No. 1,013,495; Jan. 2; Sp. p. 889; Gaz. vol. 174; p. 142.
Johnson, Oscar, Chicago, Ill. Locomotive-tender. No. 1,027,852; May 28; Sp. p. 6069; Gaz. vol. 178; p. 1046.
Johnson, Oscar, Chicago, Ill. Air-brake apparatus. No. 1,041,091; Oct. 15; Gaz. vol. 183; p. 546.
Johnson, Oscar W. (See Payment, Francois X., assignor.)
Johnson, Oscar W., assignor to Ward Pump Company, Rockford, Ill. Pump. No. 1,043,319; Nov. 5; Gaz. vol. 184; p. 99.
Johnson, Paul. (See Fryberg and Johnson.)
Johnson, Pierce X., Denver, Colo., assignor to Johnson-Bradford Safe Company. Burglar-proof safe. No. 1,026,207; May 14; Sp. p. 2479; Gaz. vol. 178; p. 414.
Johnson, Pierce X., Denver, Colo., assignor to Johnson-Bradford Safe Company. Marine safe. No. 1,026,208; May 14; Sp. p. 2480; Gaz. vol. 178; p. 415.
Johnson, Raymond D., Niagara Falls, N. Y. Valve. No. 1,030,890; July 2; Gaz. vol. 180; p. 14.
Johnson, Richard, Sr., Freeport, Ill. Automatic belt-guide. No. 1,022,949; Apr. 9; Sp. p. 2564; Gaz. vol. 177; p. 435.
Johnson, Richard P., New York, N. Y. Filter. No. 1,038,382; Sept. 10; Gaz. vol. 182; p. 437.
Johnson, Robert. (See Danzenbaker, Francis, assignor.)
Johnson, Robert C., and D. S. McEwing, Chicago, Ill. Combined car and grain door. No. 1,022,422; Apr. 9; Sp. p. 1423; Gaz. vol. 177; p. 255.
Johnson, Robert E., *et al.* (See Blake, David H., assignor.)
Johnson, Robert H., Washington, D. C. Reversible driving mechanism. No. 1,037,922; Sept. 10; Gaz. vol. 182; p. 284.
Johnson, Robert N., Brockton, Mass. Speaking-tube terminal. No. 1,032,756; July 16; Gaz. vol. 180; p. 743.
Johnson Service Company. (See Smith and Hofstad, assignors.)
Johnson, Simon C., De Kalb, Ill. Skate. No. 1,017,551; Feb. 13; Sp. p. 2900; Gaz. vol. 175; p. 490.
Johnson, Simon C., De Kalb, Ill. Truck. No. 1,035,352; Aug. 13; Gaz. vol. 181; p. 352.
Johnson, Sinclair J., Montclair, N. J. Rotary engine with piston of variable area. No. 1,021,720; Mar. 26; Sp. p. 5737; Gaz. vol. 176; p. 1031.
Johnson, Stonewall. (See Hall, Thomas S., assignor.)
Johnson, Theodore, Chicago, Ill. Bond for beams formed of plastic material. No. 1,039,951; Oct. 1; Gaz. vol. 183; p. 93.
Johnson, Thomas C., assignor to Winchester Repeating Arms Co., New Haven, Conn. Butt-stock for shoulder-arms. No. 1,025,529; May 7; Sp. p. 949; Gaz. vol. 178; p. 147.
Johnson, Thomas C., assignor to Winchester Repeating Arms Company, New Haven, Conn. Shotgun. No. 1,028,358; June 4; Sp. p. 648; Gaz. vol. 179; p. 97.
Johnson, Thomas C., assignor to Winchester Repeating Arms Co., New Haven, Conn. Magazine-firearm. No. 1,033,408; July 23; Gaz. vol. 180; p. 1000.
Johnson, Thomas C., assignor to Winchester Repeating Arms Co., New Haven, Conn. Wooden fore-arm for automatic firearms. No. 1,037,486; Sept. 3; Gaz. vol. 182; p. 106.
Johnson, Thomas J., Norman, Okla. Pump-operating mechanism. No. 1,027,052; May 21; Sp. p. 4359; Gaz. vol. 178; p. 739.
Johnson, Thorwald, Chicago, Ill. Barrel-leveling machine. No. 1,014,756; Jan. 16; Sp. p. 3703; Gaz. vol. 174; p. 632.
Johnson, Thorwald, Chicago, Ill. Barrel heating and drying apparatus. No. 1,031,122; July 2; Gaz. vol. 180; p. 97.
Johnson, Victor D., Aurora, Ill. Material containing and depositing device. No. 1,039,540; Sept. 24; Gaz. vol. 182; p. 890.
Johnson, Victor J., Worcester, Mass. Pneumatic motor. No. 1,037,775; Sept. 3; Gaz. vol. 182; p. 200.
Johnson, Walfred, Milwaukee, Wis. Bail for pots and kettles. No. 1,026,093; May 14; Sp. p. 2225; Gaz. vol. 178; p. 375.
Johnson, Walter, Lincoln, Nebr. Boiler. No. 1,047,647; Dec. 17; Gaz. vol. 185; p. 715.
Johnson, Welcome B. (See Holmes and Johnson.)

Johnson, Werner, Lynn, Mass., assignor to General Electric Company. Combined throttle and emergency valve. No. 1,041,478; Oct. 15; Gaz. vol. 183; p. 675.
Johnson, William A., Chicago, Ill. Recoil-check. No. 1,034,115; July 30; Gaz. vol. 180; p. 1265.
Johnson, William E., assignor to Rock Island Plow Company, Rock Island, Ill. Fore carriage for agricultural implements. No. 1,018,390; Feb. 20; Sp. p. 4762; Gaz. vol. 175; p. 815.
Johnson, William H. (See Lilleberg, Charles L., assignor.)
Johnson, William H., assignor to Rock Island Plow Company, Rock Island, Ill. Variable-speed mechanism. No. 1,045,151; Nov. 26; Gaz. vol. 184; p. 822.
Johnson, William N. (See Knopf and Johnson.)
Johnson, William O., Washington, D. C. Account-book. No. 1,013,659; Jan. 2; Sp. p. 1256; Gaz. vol. 174; p. 197.
Johnson, William S., *et al.* (See Deviese, John T., assignor.)
Johnson, William S., Gatesville, Tex. Seed-opening plow. No. 1,044,532; Nov. 19; Gaz. vol. 184; p. 578.
Johnson, William S., Berwick, Pa., assignor to American Car and Foundry Company, St. Louis, Mo. Pneumatic hammer. No. 1,047,532; Dec. 17; Gaz. vol. 185; p. 674.
Johnson, William W., assignor to E. G. Kastner, Redfield, S. D. Agricultural implement. No. 1,037,178; Aug. 27; Gaz. vol. 181; p. 1043.
Johnston, Albert W., *et al.* (See Jones, John B., assignor.)
Johnston, Andrew, assignor to Massey-Harris Co., Limited, Toronto, Ontario, Canada. Lever mechanism. No. 1,021,836; Apr. 2; Sp. p. 190; Gaz. vol. 177; p. 31.
Johnston, Arthur, Johnstown, Pa. Aeroplane. No. 1,045,035; Nov. 19; Gaz. vol. 184; p. 754.
Johnston, Arthur C., Philadelphia, Pa., assignor to The J. M. Dodge Company, Naugatuck, Conn. Roof-hatch for storage-buildings. No. 1,020,909; Mar. 19; Sp. p. 4038; Gaz. vol. 176; p. 705.
Johnston, Clarence L., Emeryville, Cal. Folding mechanism. No. 1,027,657; May 28; Sp. p. 5618; Gaz. vol. 178; p. 981.
Johnston, Daniel, Marquette, Mich. Chimney-cleaner. No. 1,030,733; June 25; Sp. p. 6034; Gaz. vol. 179; p. 1028.
Johnston, David G., Clayworks, Iowa. Frame for openings in buildings. No. 1,044,533; Nov. 19; Gaz. vol. 184; p. 579.
Johnston, Edward G., Columbus, Ohio. Puzzle game apparatus. No. 1,029,016; June 11; Sp. p. 2068; Gaz. vol. 179; p. 355.
Johnston, Francis P., Oakland, Cal. Carbureter. No. 1,027,340; May 21; Sp. p. 4966; Gaz. vol. 178; p. 836.
Johnston, Frank M., Boone, Iowa. Railway-rail clamp for metallic ties. No. 1,047,648; Dec. 17; Gaz. vol. 185; p. 715.
Johnston, George F. (See Schwuchow and Johnston.)
Johnston, Gordon, Fort Riley, Kans. Combined curb and snaffle bit. No. 1,014,881; Jan. 16; Sp. p. 4001; Gaz. vol. 174; p. 676.
Johnston, Grafton. (See Fleming and Ballard, assignors.)
Johnston, Harry A. (See Nye and Cram, assignors.)
Johnston, Harry B., Salt Lake City, Utah, assignor, by mesne assignments, to Model Manufacturing Company. Button-sewing attachment. No. 1,024,202; Apr. 23; Sp. p. 5250; Gaz. vol. 177; p. 920.
Johnston, Harry B., Salt Lake City, Utah, assignor to Model Manufacturing Company. Power-wheel. No. 1,037,260; Sept. 3; Gaz. vol. 182; p. 29.
Johnston, Henry H., Minneapolis, Minn., assignor to Minnesota Manufacturers Association. Elevator. No. 1,022,681; Apr. 9; Sp. p. 1970; Gaz. vol. 177; p. 342.
Johnston, Herbert L., assignor to The Hobart Electric Manufacturing Company, Troy, Ohio. Refining-machine for coffee. No. 1,017,056; Feb. 13; Sp. p. 1837; Gaz. vol. 175; p. 319.
Johnston, Horace G., Corsicana, Tex. Pipe-tongs. No. 1,017,552; Feb. 13; Sp. p. 2903; Gaz. vol. 175; p. 490.
Johnston, Horace G., assignor to American Well & Prospecting Company, Inc., Corsicana, Tex. Hoisting-machine. No. 1,027,253; May 21; Sp. p. 4793; Gaz. vol. 178; p. 808.
Johnston, James A., Vancouver, British Columbia, Canada. Rupture-truss. No. 1,018,113; Feb. 20; Sp. p. 4185; Gaz. vol. 175; p. 720.
Johnston, James S., assignor to Johnston Manufacturing Company, Utica, N. Y. Combination switch and safety-fuse. No. 1,049,305; Dec. 31; Gaz. vol. 185; p. 1348.
Johnston, John. (See Potter and Johnston.)
Johnston, Lasure B., Lorain, Ohio. Mail-handling device. No. 1,032,483; July 16; Gaz. vol. 180; p. 648.
Johnston Manufacturing Company. (See Johnston, James S., assignor.)
Johnston, Robert T., Scotch Plains, N. J., assignor to The Harris Automatic Press Company, Niles, Ohio. Bed-movement. No. 1,022,557; Apr. 9; Sp. p. 1697; Gaz. vol. 177; p. 299.
Johnston, Robert T., Scotch Plains, N. J., assignor, by mesne assignments, to Automatic Furnace Co., New York, N. Y. Attachment for melting-furnaces. No. 1,036,853; Aug. 27; Gaz. vol. 181; p. 935.
Johnston, Robert T., Scotch Plains, N. J., assignor to The Harris Automatic Press Company, Niles, Ohio. Bed-and-cylinder machine. No. 1,040,208; Oct. 1; Gaz. vol. 183; p. 180.
Johnston, Robert T., Plainfield, assignor, by mesne assignments, to The Autoplate Company of America, Jersey City, N. J. Inking apparatus for printing-presses. No. 1,027,853; May 28; Sp. p. 6072; Gaz. vol. 178; p. 1047.
Johnston, Robert T., Taunton, Mass., assignor, by mesne assignments, to The Autoplate Company of America, Jersey City, N. J. Matrix-making press. No. 1,047,533; Dec. 17; Gaz. vol. 185; p. 674.
Johnston, Rollin B., Manchester, N. H. Shut-off-valve-handle signal and lock-spring. No. 1,040,343; Oct. 8; Gaz. vol. 183; p. 256.
Johnston, Roy B. (See Sharp and Johnston.)
Johnston, Wayburn E., St. Paul, Minn. Valve-gear. No. 1,032,367; July 9; Gaz. vol. 180; p. 566.
Johnston, William B., assignor of one-tenth to W. B. Daniel, Richmond, Va. Direction-signal for motor-vehicles. No. 1,048,702; Dec. 31; Gaz. vol. 185; p. 1141.
Johnston, William J., Sheffield, England. Apparatus employed in the manufacture of axles. No. 1,047,815; Dec. 17; Gaz. vol. 185; p. 773.
Johnston, William W., Marshalltown, Iowa. Removing carbon. No. 1,034,713; Aug. 6; Gaz. vol. 181; p. 104.
Johnstone, Charles H., Armstrong, British Columbia, Canada. Spring-wheel. No. 1,045,559; Nov. 26; Gaz. vol. 184; p. 967.
Johnstone, James O., Buffalo, N. Y. Treating zinc-bearing ore. No. 1,029,932; June 18; Sp. p. 4076; Gaz. vol. 179; p. 708.
Johnstone, Marion, New York, N. Y. Convertible hood, cape, and veil. No. 1,042,351; Oct. 22; Gaz. vol. 183; p. 1003.
Johnstone, Robert L. (See Matthews, Johnstone, and Cash.)
Joiner, Allen W., Brave, Pa. Packing. No. 1,032,838; July 16; Gaz. vol. 180; p. 770.
Joines, James J., Atlanta, Ga. Fare-recorder. No. 1,043,602; Nov. 5; Gaz. vol. 184; p. 198.
Joleen, Nels, Chicago, Ill. Sectional service-board. No. 1,039,139; Sept. 24; Gaz. vol. 182; p. 748.
Joline, James S., and E. H. Wheeler, Long Branch, N. J. Hedge-trimmer. No. 1,014,480; Jan. 9; Sp. p. 3064; Gaz. vol. 174; p. 509.
Jolly, Rowland W., New York, N. Y. Cutting device. No. 1,038,896; Sept. 17; Gaz. vol. 182; p. 652.
Joly, Louis, assignor to J. Carpentier, Paris, France. Apparatus for measuring the ratio of two electric currents. No. 1,033,409; July 23; Gaz. vol. 180; p. 1000.
Jonas, Frederick W. (See Spofford and Jonas.)
Jonas, Frederick W. (See Spofford, Jonas, and Bennett.)
Jonas, Max, Berlin, Germany. Press for neckties. No. 1,021,682; Mar. 26; Sp. p. 5659; Gaz. vol. 176; p. 1018.
Jonassen, Konrad, Tenino, Wash. Combination rock drill and reamer. No. 1,034,803; Aug. 6; Gaz. vol. 181; p. 135.
Joncas, Joseph A., Minneapolis, Minn. Vehicle-lamp. No. 1,017,000; Feb. 13; Sp. p. 1715; Gaz. vol. 175; p. 299.
Jones, Aaron G., and P. K. Millar, Cornish, Okla. Rail. No. 1,023,652; Apr. 16; Sp. p. 4021; Gaz. vol. 177; p. 706.
Jones, Adrian D., Halloway, London, England. Electric-arc lamp. No. 1,047,235; Dec. 17; Gaz. vol. 185; p. 568.
Jones, Alban S. (See Perry and Jones.)
Jones, Albert E., assignor to Whitehead and Company, Fiume, Austria-Hungary. Gyroscope for automobile torpedoes. No. 1,025,747; May 7; Sp. p. 1412; Gaz. vol. 178; p. 221.
Jones, Albert E., assignor to Whitehead and Company, Fiume, Austria-Hungary. Air-heating apparatus. No. 1,028,073; May 28; Sp. p. 6552; Gaz. vol. 178; p. 1118.
Jones, Albert E., assignor to Whitehead & Co., Fiume, Austria-Hungary. Means for launching torpedoes from the sides of ships. No. 1,046,192; Dec. 3; Gaz. vol. 185; p. 135.
Jones, Albert T., Salem, Mass. Counter-forming machine. No. 1,014,226; Jan. 9; Sp. p. 2515; Gaz. vol. 174; p. 422.
Jones, Aldred J., New Orleans, La. Railway track-scale. No. 1,019,478; Mar. 5; Sp. p. 1082; Gaz. vol. 176; p. 160.
Jones, Alfred, Lancaster, assignor to Armstrong Cork Company, Pittsburgh, Pa. Machine for making inlaid linoleum. No. 1,014,397; Jan. 9; Sp. p. 2911; Gaz. vol. 174; p. 482.
Jones, Allen G., San Francisco, Cal., assignor to General Electric Company. Protective device. No. 1,024,857; Apr. 30; Sp. p. 6710; Gaz. vol. 177; p. 1181.
Jones, Amanda T., Junction City, Kans. Method and apparatus for burning fuel-oil. No. 1,039,752; Oct. 1; Gaz. vol. 183; p. 28.
Jones, Anna A., Philadelphia, Pa. Washboard. No. 1,021,870; Apr. 2; Sp. p. 260; Gaz. vol. 177; p. 42.
Jones, Arthur J., assignor of one-half to F. W. Pratt, Washington, D. C. Mail-delivery apparatus. No. 1,034,116; July 30; Gaz. vol. 180; p. 1266.

Alphabetical list of patentees—Continued.

Jones, Arthur J., assignor of one-half to F. W. Pratt, Washington, D. C. Oil-burning apparatus for locomotives. No. 1,042,797; Oct. 29; Gaz. vol. 183; p. 1188.
Jones, Arthur O., Whitley Bay, England, assignor of one-half to The Stettiner Chamotte-Fabrik Actien-Gesellschaft vormals Didier, Stettin, Germany. Vertical coke-oven. No. 1,028,569; June 4; Sp. p. 1105; Gaz. vol. 179; p. 167.
Jones, Bassett, Jr. (See Fountain and Jones.)
Jones, Belden D., Chicago, Ill. Car-door. No. 1,015,387; Jan. 23; Sp. p. 5073; Gaz. vol. 174; p. 875.
Jones, Belden D., assignor to Jones Car Door Company, Chicago, Ill. Car-door structure. No. 1,036,634; Aug. 27; Gaz. vol. 181; p. 862.
Jones, Belden D., assignor to Jones Car Door Company, Chicago, Ill. Car-door. No. 1,036,854; Aug. 27; Gaz. vol. 181; p. 935.
Jones, Benjamin H., St. Louis, Mo. Assembling-tool. No. 1,013,171; Jan. 2; Sp. p. 167; Gaz. vol. 174; p. 29.
Jones, Benjamin L., Steubenville, Ohio. Metallic shelving. No. 1,013,172; Jan. 2; Sp. p. 168; Gaz. vol. 174; p. 29.
Jones, Byron, Portland, Ind. Brace for fence-posts. No. 1,047,649; Dec. 17; Gaz. vol. 185; p. 716.
Jones, Cable B., Whitewood, S. D. Grapple. No. 1,031,270; July 2; Gaz. vol. 180; p. 149.
Jones Car Door Company. (See Jones, Belden D., assignor.)
Jones, Charles E., Windsor, Mo. Whiffletree-hook. No. 1,021,193; Mar. 26; Sp. p. 4644; Gaz. vol. 176; p. 851.
Jones, Charles K., New York, N. Y. Multiple-circuit controller. No. 1,016,329; Feb. 6; Sp. p. 213; Gaz. vol. 175; p. 32.
Jones, Charles W., St. Paul, Minn. Instrument-holder. No. 1,014,649; Jan. 16; Sp. p. 3480; Gaz. vol. 174; p. 597.
Jones, Chester C., Beatrice, Nebr. Means for cooling gas-engines. No. 1,028,359; June 4; Sp. p. 650; Gaz. vol. 179; p. 97.
Jones, Coates & Bailey. (See Jones, Ford, assignor.)
Jones, Coulter W., and A. E. Schaefer, assignors to The Dow Chemical Company, Midland, Mich. Making halogens. No. 1,036,121; Aug. 20; Gaz. vol. 181; p. 651.
Jones, David D., San Francisco, Cal. Clothes-hanger. No. 1,037,487; Sept. 3; Gaz. vol. 182; p. 106.
Jones, David E., Utica, N. Y. Auxiliary picker-rod stand. No. 1,022,483; Apr. 9; Sp. p. 1539; Gaz. vol. 177; p. 276.
Jones, David R. (See Addison, William H., assignor.)
Jones, Denson S., Norfolk, Va. Switch-point guard. No. 1,032,484; July 16; Gaz. vol. 180; p. 649.
Jones, Earle M., assignor of one-fiftieth to G. Kvitrud, Minneapolis, Minn. Protective check. No. 1,028,570; June 4; Sp. p. 1106; Gaz. vol. 179; p. 168.
Jones, Ebenezer, Martins Ferry, Ohio, and J. Hall, Ingram, Pa. Sprocket-wheel for cutting-chains. No. 1,013,173; Jan. 2; Sp. p. 170; Gaz. vol. 174; p. 30.
Jones, Edward C., Plymouth, Pa. Wheel. No. 1,017,553; Feb. 13; Sp. p. 2904; Gaz. vol. 175; p. 490.
Jones, Edward C., and C. J. Arnold, Louisville, Ky. Smoke-burner. No. 1,019,797; Mar. 12; Sp. p. 1707; Gaz. vol. 176; p. 298.
Jones, Edward R., Baltimore, Md. Stamp or label affixing machine. No. 1,019,479; Mar. 5; Sp. p. 1088; Gaz. vol. 176; p. 161.
Jones, Edward S., Columbus, assignor of one-half to Columbus Realty Company, Columbus, Ind. Shaving-brush. No. 1,019,480; Mar. 5; Sp. p. 1094; Gaz. vol. 176; p. 161.
Jones, Effie, Ottawa, Kans. Cake-pan. No. 1,032,680; July 16; Gaz. vol. 180; p. 717.
Jones, Elijah D., near Valencia, Kans. Wire-stretcher. No. 1,030,588; June 25; Sp. p. 5616; Gaz. vol. 179; p. 975.
Jones, Elliott W., Opelika, Ala. Cutter. No. 1,034,246; July 30; Gaz. vol. 180; p. 1312.
Jones, Emery C., assignor of one-half to J. C. Ezzell, Rock Mart, Ga. Throttle-valve. No. 1,037,630; Sept. 3; Gaz. vol. 182; p. 151.
Jones, Ernest J., Baltimore, Md. Hame-fastener. No. 1,032,411; July 16; Gaz. vol. 180; p. 624.
Jones, Ethel M. (See Elsden, Ethel M.)
Jones, Floyd D., assignor to Jones Razor and Manufacturing Company, Kansas City, Mo. Safety-razor. No. 1,032,609; July 16; Gaz. vol. 180; p. 690.
Jones, Ford, Wilmette, assignor to Jones, Coates & Bailey, Chicago, Ill. Box. No. 1,033,410; July 23; Gaz. vol. 180; p. 1001.
Jones, Frank H., assignor to Warner Gear Company, Muncie, Ind. Clutch. No. 1,017,762; Feb. 20; Sp. p. 3336; Gaz. vol. 175; p. 597.
Jones, Frank S., Pasadena, Cal. Clutch. No. 1,018,620; Feb. 27; Sp. p. 5331; Gaz. vol. 175; p. 925.
Jones, Frank T. (See Jones, Richard T. and F. T.)
Jones, Frank T., assignor to The Jones Safety Train Control System Company, Baltimore, Md. Safety air-brake valve. No. 1,049,306; Dec. 31; Gaz. vol. 185; p. 1348.
Jones, Fred A., *et al.* (See Larsson, Thure, assignor.)
Jones, George E., Chicago, Ill. Refrigerating device. No. 1,017,217; Feb. 13; Sp. p. 2210; Gaz. vol. 175; p. 375.
Jones, George E., Longbeach, Cal. Music-leaf turner. No. 1,040,209; Oct. 1; Gaz. vol. 183; p. 181.
Jones, George G., Philadelphia, Pa. Inverted-mantle lamp. No. 1,037,488; Sept. 3; Gaz. vol. 182; p. 106.
Jones, George H., Aldan, Pa. Frame for automobiles. No. 1,047,650; Dec. 17; Gaz. vol. 185; p. 716.
Jones, George H., assignor to Monaghan Mills, Greenville, S. C. Loom. No. 1,035,353; Aug. 13; Gaz. vol. 181; p. 353.
Jones, George W. (See Matthews, William, assignor.)
Jones, George W., Canandaigua, N. Y. Connection for rails. No. 1,033,703; July 23; Gaz. vol. 180; p. 1095.
Jones, George W., Canandaigua, N. Y., assignor to M. J. Maney, Geneva, N. Y. Basket-handle. No. 1,033,704; July 23; Gaz. vol. 180; p. 1095.
Jones, Gerry, Binghamton, N. Y. Weighing apparatus. No. 1,046,797; Dec. 10; Gaz. vol. 185; p. 389.
Jones, Grandville F., Exeter, Nebr. Paper-holder. No. 1,017,673; Feb. 20; Sp. p. 3145; Gaz. vol. 175; p. 567.
Jones, Gus. (See Shaffer, Ora C., assignor.)
Jones, Harris, Watertown, N. Y. Foot-scraper. No. 1,022,950; Apr. 9; Sp. p. 2566; Gaz. vol. 177; p. 436.
Jones, Harry, Suffern, assignor to E. H. Fallows, New York, N. Y. Means for holding inserts in place in molds. No. 1,016,273; Feb. 6; Sp. p. 68; Gaz. vol. 175; p. 13.
Jones, Harry E., Davenport, Iowa. Vending-machine. No. 1,017,873; Feb. 20; Sp. p. 3641; Gaz. vol. 175; p. 635.
Jones, Harry W., assignor to American Can Company, New York, N. Y. Compartment friction-top can. No. 1,029,017; June 11; Sp. p. 2069; Gaz. vol. 179; p. 356.
Jones, Henry S., Augusta, Ga. Cot or bed. No. 1,017,763; Feb. 20; Sp. p. 3339; Gaz. vol. 175; p. 598.
Jones, Henry T., East Orange, N. J. Preparing resistant material and the product resulting therefrom. No. 1,014,882; Jan. 16; Sp. p. 4003; Gaz. vol. 174; p. 676.
Jones, Howard F., Warrenton, N. C. Hasp-lock. No. 1,045,983; Dec. 3; Gaz. vol. 185; p. 64.
Jones, Howard M. (See Hooper, John C., assignor.)
Jones, Irving W., Ogden, Utah. Window-screen. No. 1,039,411; Sept. 24; Gaz. vol. 182; p. 844.
Jones, Iwan E., and F. J. Tanner, assignors to International Text Book Company, Scranton, Pa. Type-writer. No. 1,048,974; Dec. 31; Gaz. vol. 185; p. 1234.
Jones, Jacob M. (See Lipscomb, Sylvester G., assignor.)
Jones, James A., Chicago, Ill. Apparatus for drying molds. No. 1,037,013; Aug. 27; Gaz. vol. 181; p. 988.
Jones, James C. (See Carter, Jones, and Spotts.)
Jones, James H., and E. Lippert, Cincinnati, Ohio. Cork-extractor. No. 1,040,956; Oct. 8; Gaz. vol. 183; p. 466.
Jones, James H. W., Corydon, Ky. Wire-stretcher. No. 1,013,397; Jan. 2; Sp. p. 681; Gaz. vol. 174; p. 108.
Jones, James M., Hamilton, Ontario, Canada. Safety-guard for stamping-presses. No. 1,020,827; Mar. 19; Sp. p. 3883; Gaz. vol. 176; p. 678.
Jones, James M., Hamilton, Ontario, Canada. Safety-guard for foot or screw presses. No. 1,041,092; Oct. 15; Gaz. vol. 183; p. 546.
Jones, James M., Hamilton, Ontario, Canada. Safety-guard for stamping and other presses. No. 1,042,445; Oct. 29; Gaz. vol. 183; p. 1065.
Jones, James S., Harrison, Ark. Syrup-pitcher. No. 1,024,786; Apr. 30; Sp. p. 6570; Gaz. vol. 177; p. 1156.
Jones, James T., Brookwood, Ala. Wrench. No. 1,013,174; Jan. 2; Sp. p. 170; Gaz. vol. 174; p. 30.
Jones, Jasper, Newark, Ohio. Metallic coffin-case. No. 1,026,513; May 14; Sp. p. 3141; Gaz. vol. 178; p. 518.
Jones, Job E., Carneyville, Wyo. Steel tape-line. No. 1,043,706; Nov. 5; Gaz. vol. 184; p. 233.
Jones, John B., Conneaut, assignor of one-fourth to E. A. Miller and one-fourth to A. W. Johnston, Cleveland, Ohio. Slot-closing device. No. 1,037,631; Sept. 3; Gaz. vol. 182; p. 151.
Jones, John C., *et al.* (See Gibson, George H., assignor.)
Jones, John D., Walla Walla, Wash. Wheel-hub box. No. 1,020,287; Mar. 12; Sp. p. 2723; Gaz. vol. 176; p. 461.
Jones, John D., Walla Walla, Wash. Bearing. No. 1,043,603; Nov. 5; Gaz. vol. 184; p. 198.
Jones, John D., Walla Walla, Wash. Hub. No. 1,045,298; Nov. 26; Gaz. vol. 184; p. 873.
Jones, John D., Walla Walla, Wash. Canal-gate. No. 1,046,599; Dec. 10; Gaz. vol. 185; p. 317.
Jones, John D., Walla Walla, Wash. Hydrant. No. 1,047,067; Dec. 10; Gaz. vol. 185; p. 476.
Jones, John E., Struthers, Ohio. Means for removing scales, &c., from metallic pipes. No. 1,031,558; July 2; Gaz. vol. 180; p. 246.
Jones, John F., Jeanerette, La. Budding-tool. No. 1,016,831; Feb. 6; Sp. p. 1326; Gaz. vol. 175; p. 204.
Jones, John G., assignor to M. D. Knowlton Company, Rochester, N. Y. Scoring-machine. No. 1,033,411; July 23; Gaz. vol. 180; p. 1001.
Jones, John G., assignor to M. D. Knowlton Company, Rochester, N. Y. Box-covering machine. No. 1,035,597; Aug. 13; Gaz. vol. 181; p. 435.
Jones, John M. C., Gibson City, Ill. Green-corn-cutting machine. No. 1,037,014; Aug. 27; Gaz. vol. 181; p. 988.
Jones, John R., Westernville, N. Y. Gun-sight. No. 1,028,219; June 4; Sp. p. 353; Gaz. vol. 179; p. 49.

Alphabetical list of patentees—Continued.

Jones, John S. (See Hutchison, Robert W., assignor.)
Jones, Joseph E., Youngstown, Ohio. Oil-filter. No. 1,017,100; Feb. 13; Sp. p. 1949; Gaz. vol. 175; p. 335.
Jones, Joseph M. (See Van Buren, George L., assignor.)
Jones, Joseph R., Detroit, Mich. Telegraph-transmitter. No. 1,025,471; May 7; Sp. p. 815; Gaz. vol. 178; p. 127.
Jones, Joseph W., New York, N. Y. Speedometer. No. 1,028,220; June 4; Sp. p. 356; Gaz. vol. 179; p. 50.
Jones, Joseph W., New York, N. Y. Combined clock and indicating device. No. 1,040,344; Oct. 8; Gaz. vol. 183; p. 256.
Jones, Joseph W., New York, N. Y. Combined road-map and odometer. No. 1,040,345; Oct. 8; Gaz. vol. 183; p. 256.
Jones, Laban E., Anaconda, Mont. Ore-concentrator. No. 1,029,933; June 18; Sp. p. 4078; Gaz. vol. 179; p. 708.
Jones, Lemuel I., Youngstown, Ohio, assignor to Excello Products Company, Detroit, Mich. Flushing device for waste-pipes. No. 1,013,175; Jan. 2; Sp. p. 172; Gaz. vol. 174; p. 30.
Jones, Leon M. (See Bramberry, William A., assignor.)
Jones, Llewellyn W., Sewickley, Pa. Treating pipe-balls. No. 1,036,635; Aug. 27; Gaz. vol. 181; p. 862.
Jones, Louis C., D. A. Morton, and G. N. Terziev, assignors to Semet-Solvay Company, Syracuse, N. Y. Oxidizing ammonia. No. 1,037,261; Sept. 3; Gaz. vol. 182; p. 29.
Jones, Lyman D., assignor to E. E. Brandeau, Bridgeport, Conn. Vehicle-spring. No. 1,032,681; July 16; Gaz. vol. 180; p. 717.
Jones, Milton D., *et al.* (See Edwards, Isaac L., assignor.)
Jones, Oliver P., Beaumont, Tex. Roundabout-swing. No. 1,044,391; Nov. 12; Gaz. vol. 184; p. 500.
Jones, Palmer A. (See Moulton and Jones.) (Reissue.)
Jones, Parks D., Brazil, Ind. Square. No. 1,015,736; Jan. 23; Sp. p. 5834; Gaz. vol. 174; p. 994.
Jones, Percy C., and G. A. Strub, assignors to The S. M. Jones Company, Toledo, Ohio. Rod-coupling. No. 1,049,307; Dec. 31; Gaz. vol. 185; p. 1349.
Jones, Phineas, Metuchen, N. J. Dual-tire wheel for autotrucks. No. 1,032,757; July 16; Gaz. vol. 180; p. 743.
Jones, Ralph E., U. S. Army. Book support or holder. No. 1,049,101; Dec. 31; Gaz. vol. 185; p. 1279.
Jones, Ralph W., Lincoln, Nebr. Base-ball curver. No. 1,025,748; May 7; Sp. p. 1413; Gaz. vol. 178; p. 221.
Jones Razor and Manufacturing Company. (See Jones, Floyd D., assignor.)
Jones, Richard E. (See Dexter and Jones.)
Jones, Richard E., Hagerstown, Md., assignor to S. P. Stevenson, Chester, Pa. Fastener for doors, &c. No. 1,046,072; Dec. 3; Gaz. vol. 185; p. 93.
Jones, Richard M., London, England. Differential-axle device. No. 1,015,737; Jan. 23; Sp. p. 5835; Gaz. vol. 174; p. 995.
Jones, Richard T. and F. T., assignors to The Jones Safety Train Control System Company, Baltimore, Md. Brake-valve-controlling device for vehicles. No. 1,046,391; Dec. 3; Gaz. vol. 185; p. 207.
Jones, Robert G., *et al.* (See Messick, John C., assignor.)
Jones, Robert J., Barneston, Nebr. Portable-platform wagon-jack. No. 1,016,505; Feb. 6; Sp. p. 617; Gaz. vol. 175; p. 94.
Jones, Rodolphus H., *et al.* (See Hestand and Dayton, assignors.)
Jones Safety Train Control System Company, The. (See Jones, Frank T., assignor.)
Jones Safety Train Control System Company, The. (See Jones, Richard T. and F. T., assignors.)
Jones, Samuel M., Wilkinsburg, Pa. Adjustable school desk and seat. No. 1,033,591; July 23; Gaz. vol. 180; p. 1060.
Jones, Sherman, Newark, N. J. Door-operating mechanism. No. 1,024,582; Apr. 30; Sp. p. 6123; Gaz. vol. 177; p. 1084.
Jones, Sidney W., Tucker, Utah. Automatic type-writer feed. No. 1,028,026; May 28; Sp. p. 6429; Gaz. vol. 178; p. 1103.
Jones, Sylvester H., and E. Christman, Richmond Ind., assignors to The American Seeding Machine Company, Springfield, Ohio. Disk furrow-opener. No. 1,036,252; Aug. 20; Gaz. vol. 181; p. 698.
Jones, Tolbert, assignor of one-half to A. Harvey, Monett, Mo. Shade-hanger. No. 1,043,237; Nov. 5; Gaz. vol. 184; p. 68.
Jones, Warren C., San Francisco, Cal. Garment-supporter. No. 1,046,798; Dec. 10; Gaz. vol. 185; p. 389.
Jones, William A., Sharon, Pa. Device for removing foreign matter from the eyes. No. 1,020,985; Mar. 26; Sp. p. 4220; Gaz. vol. 176; p. 784.
Jones, William D., assignor of one-third to W. A. Rees and one-third to R. L. Rees, New York, N. Y. Electric washing-machine. No. 1,020,828; Mar. 19; Sp. p. 3887; Gaz. vol. 176; p. 679.
Jones, William D., assignor of one-third to W. A. Rees and one-third to R. L. Rees, New York, N. Y. Electric washing-machine. No. 1,020,829; Mar. 19; Sp. p. 3888; Gaz. vol. 176; p. 679.
Jones, William F., *et al.* (See Messick, John C., assignor.)
Jones, William H., Hudson, Colo. Railway-tie. No. 1,016,414; Feb. 6; Sp. p. 397; Gaz. vol. 175; p. 62.
Jones, William H., Chicago, Ill. Water-heater. No. 1,029,300; June 11; Sp. p. 2660; Gaz. vol. 179; p. 451.
Jones, William H., Chicago, Ill. Railway-brake. No. 1,034,117; July 30; Gaz. vol. 180; p. 1266.
Jones, William H., Chicago, Ill. Heating system. No. 1,040,548; Oct. 8; Gaz. vol. 183; p. 327.
Jones, William H., Chicago, Ill. Heater. No. 1,040,688; Oct. 8; Gaz. vol. 183; p. 379.
Jones, William H., Cleveland, Ohio. Folding mattress-support. No. 1,038,593; Sept. 17; Gaz. vol. 182; p. 545.
Jones, William H., F. K. Metcalf, and J. S. Wear, Delta, Colo.; said Metcalf assignor to said Jones and Wear. Land-marker. No. 1,027,609; May 28; Sp. p. 5520; Gaz. vol. 178; p. 965.
Jones, William M., *et al.* (See Christopher, Calvin F., assignor.)
Jones, William N., Acton, Ala. Churn. No. 1,017,554; Feb. 13; Sp. p. 2905; Gaz. vol. 175; p. 491.
Jones, William T., Spokane, Wash. Brush for vacuum-cleaners. No. 1,038,383; Sept. 10; Gaz vol. 182; p. 437.
Jones, William T., assignor to Edmunds & Jones Mfg. Co., Detroit, Mich. Adjustable lens for headlight-lamps. No. 1,014,227; Jan. 9; Sp. p. 2532; Gaz. vol. 174; p. 422.
Jones, William T., assignor to The Edmunds & Jones Mfg. Co., Detroit, Mich. Lens and reflector retainer for lamp-doors. No. 1,045,852; Dec. 3; Gaz. vol. 185; p. 20.
Jones, Zachariah F., Scottsville, Va. Fire box and grate. No. 1,027,610; May 28; Sp. p. 5523; Gaz. vol. 178; p. 966.
Jongeneel, Martin, Oakley, assignor to California Fruit Canners Association, San Francisco, Cal. Asparagus-cutting frame. No. 1,034,118; July 30; Gaz. vol. 180; p. 1266.
Jonson, Herman, New York, N. Y., assignor, by mesne assignments, to Mantle Machinery and Patents Company. Machine for inserting pucker-cords in tubular structures. No. 1,023,426; Apr. 16; Sp. p. 3566; Gaz. vol. 177; p. 635.
Jonson, Herman, New York, N. Y., assignor, by mesne assignments, to Mantle Machinery and Patents Company. Running-stitch-sewing machine. No. 1,023,427; Apr. 16; Sp. p. 3571; Gaz. vol. 177; p. 635.
Joplin, William A. (See Hiller and Joplin.)
Joplin, William A., Lawrence, assignor to Pneumatic Scale Corporation Limited, Quincy, Mass. Feed attachment for hoppers. No. 1,029,998; June 18; Sp. p. 4202; Gaz. vol. 179; p. 729.
Joplin, William A., Lawrence, assignor to Pneumatic Scale Corporation Limited, Quincy, Mass. Bag-filling machine. No. 1,037,015; Aug. 27; Gaz. vol. 181; p. 988.
Joralemon, David P. (See Kelty and Joralemon.)
Jordan, Alexander M., Ogden, Kans. Automatic loader. No. 1,037,632; Sept. 3; Gaz. vol. 182; p. 152.
Jordan, Allen, assignor of one-third to J. R. Pill, Birmingham, Ala. Safety attachment for rolling-stock of railways. No. 1,048,078; Dec. 24; Gaz. vol. 185; p. 889.
Jordan, Christopher C., *et al.* (See Jordan, George A., assignor.)
Jordan, Edward D., *et al.* (See Hargis, Harry W., assignor.)
Jordan, Frank R., Ocean Beach, Cal. Saw-file guide. No. 1,023,428; Apr. 16; Sp. p. 3574; Gaz. vol. 177; p. 635.
Jordan, Franz, Reinickendorf, Germany. Welding aluminium. No. 1,033,412; July 23; Gaz. vol. 180; p. 1002.
Jordan, Franz, and H. Sauveur, Berlin-Friedenau, Germany. Speed-controlled brake. No. 1,043,437; Nov. 5; Gaz. vol. 184; p. 140.
Jordan, George A., New York, N. Y. Branch block for electric moldings or conduits. No. 1,022,423; Apr. 9; Sp. p. 1427; Gaz. vol. 177; p. 256.
Jordan, George A., assignor of one-third to W. H. Jordan and one-third to C. C. Jordan, Brooklyn, N. Y. Electric cut-out or switch. No. 1,018,501; Feb. 27; Sp. p. 5029; Gaz. vol. 175; p. 885.
Jordan, Harry W., Syracuse, assignor to The Solvay Process Company, Solvay, N. Y. Mixing vessel. No. 1,036,253; Aug. 20; Gaz. vol. 181; p. 699.
Jordan, Heinrich, and W. Neelmeier, Leverkusen, near Cologne, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Azo dye. No. 1,024,080; Apr. 23; Sp. p. 4947; Gaz. vol. 177; p. 876.
Jordan, Heinrich, and W. Neelmeier, Leverkusen, near Cologne, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Azo dye. No. 1,024,081; Apr. 23; Sp. p. 4948; Gaz. vol. 177; p. 876.
Jordan, Heinrich, and W. Neelmeier, Leverkusen, near Cologne, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Blue cotton-dye. No. 1,032,412; July 16; Gaz. vol. 180; p. 625.
Jordan, Herman, Detroit, Mich. Flying-machine. No. 1,025,093; Apr. 30; Sp. p. 7191; Gaz. vol. 177; p. 1260.
Jordan, John E., Lott, Tex. Fly-trap. No. 1,019,899; Mar. 12; Sp. p. 1915; Gaz. vol. 176; p. 333.
Jordan, Llewellyn. (See Murray, Eugene, assignor.)
Jordan, Michael. (See Gangelhoff and Jordan.)
Jordan, Mordecai E., *et al.* (See Zaring, Leander B., assignor.)

Alphabetical list of patentees—Continued.

Jordan, William H., *et al.* (See Jordan, George A., assignor.)
Jordan, William H., Knightstown, Ind. Spring-door. No. 1,028,571; June 4; Sp. p. 1108; Gaz. vol. 179; p. 168.
Jorg, John, Hollywood, Cal. Drawing and music case. No. 1,027,611; May 28; Sp. p. 5525; Gaz. vol. 178; p. 966.
Jörgens, August, Kettwig, Germany. Ring spinning, doubling, and twisting machine. No. 1,018,710; Feb. 27; Sp. p. 5519; Gaz. vol. 175; p. 955.
Jorgens, Carl S., Minneapolis, Minn. Water-dropper for dental handpieces. No. 1,033,592; July 23; Gaz. vol. 180; p. 1060.
Jorgensen, George. (See Kummer and Jorgensen.)
Jörgensen, Jorgen K. (See Wienberg, Jörgensen, Jespersen, and Jörgensen.)
Jörgensen, Lars. (See Wienberg, Jörgensen, Jespersen, and Jörgensen.)
Jorgenson, John. (See Elliott and Jorgenson.)
Jorgeson, Frederick C. Chicago, Ill. Show-case. No. 1,042,118; Oct. 22; Gaz. vol. 183; p. 927.
Jorn, Albert, Jr., Waukegan, Ill. Sand-blast device. No. 1,016,415; Feb. 6; Sp. p. 398; Gaz. vol. 175; p. 63.
Jörn, Paul, Hamburg, Germany. Preserving hams. No. 1,036,254; Aug. 20; Gaz. vol. 181; p. 699.
Jörn, Paul, Hamburg, Germany. Preserving hams. No. 1,036,255; Aug. 20; Gaz. vol. 181; p. 699.
Jorss, Amandus F., *et al.* (See Galvin, Carroll D., assignor.)
Jory, George W., Marysville, Cal. Ditcher and grader. No. 1,028,734; June 4; Sp. p. 1430; Gaz. vol. 179; p. 222.
Josef, Edward E., Buffalo, N. Y. Door for grain-cars, &c. No. 1,047,947; Dec. 24; Gaz. vol. 185; p. 846.
Joseph, Edward L., Westminster, London, England. Apparatus for effecting the sterilization of water by ozonation. No. 1,047,534; Dec. 17; Gaz. vol. 185; p. 674.
Josef Inwald Glass Co. (See Bagar, Frauz, assignor.)
Joseph Bancroft & Sons Company *et al.* (See Williams, Henry S., assignor.)
Joseph, Carl, Bayonne, N. J. Curtain-support. No. 1,029,871; June 18; Sp. p. 3939; Gaz. vol. 179; p. 686.
Joseph, Eduard, Berlin, Germany. Manufacturing fodder composed of peat and molasses. No. 1,022,243; Apr. 2; Sp. p. 1045; Gaz. vol. 177; p. 166.
Joseph, Edward L., London, England. Apparatus for transforming continuous currents into alternating currents. No. 1,042,446; Oct. 29; Gaz. vol. 183; p. 1065.
Joseph Fahys & Co. (See Gibbs, William E., assignor.)
Joseph Fahys & Co. (See Harman, Charles W., assignor.)
Joseph, George M., Camden, N. J., assignor to Lindholm Metal Stamping Company. Grease-cup. No. 1,047,068; Dec. 10; Gaz. vol. 185; p. 477.
Joseph Halsted Co. (See Seymour, Frederick C., assignor.)
Joseph, Herschel V., Doxey, Okla. Grinding-machine. No. 1,030,186; June 18; Sp. p. 4606; Gaz. vol. 179; p. 793.
Joseph, Louis L., Chicago, Ill. Coin-holder. No. 1,030,092; June 18; Sp. p. 4417; Gaz. vol. 179; p. 762.
Joseph Mayer & Bros. (See Kuhn, Joseph, assignor.)
Joseph T. Ryerson & Son. (See Kraut, Hans B., assignor.)
Joseph, Walter L. (See Joseph, William and W. L.)
Joseph, William and W. L., Highgate, London, England. Fastening device for envelops, bags, boxes, and other articles. No. 1,030,187; June 18; Sp. p. 4607; Gaz. vol. 179; p. 793.
Josse, Emil, and W. Gensecke, Charlottenburg, Germany. Means for removing air and non-condensed steam from vacuum apparatus, condensers, and the like. No. 1,046,303; Dec. 3; Gaz. vol. 185; p. 176.
Josse, Emil, and W. Gensecke, Charlottenburg, Germany. Means for evacuating vacuum apparatus. No. 1,046,304; Dec. 3; Gaz. vol. 185; p. 176.
Jost, Carl, Bombay, India. Air cooler and purifier. No. 1,016,157; Jan. 30; Sp. p. 6712; Gaz. vol. 174; p. 1166.
Josz, Edgard J., New York, N. Y. Decorative sheathed wall. No. 1,022,951; Apr. 9; Sp. p. 2567; Gaz. vol. 177; p. 436.
Jovanovich, Michael, New York, N. Y. Aeroplane. No. 1,013,601; Jan. 2; Sp. p. 1104; Gaz. vol. 174; p. 177.
Joy, John M. (See Bijur and Joy.)
Joy, William H., M. H. Smith, and F. Korff, assignors to Korff Manufacturing Company, Lansing, Mich. Detachable runner for folding go-carts. No. 1,017,417; Feb. 13; Sp. p. 2627; Gaz. vol. 175; p. 441.
Joyal, Stephen W., Cavendish, Vt. Rail-brace. No. 1,026,807; May 21; Sp. p. 3774; Gaz. vol. 178; p. 653.
Joyce, Frank I., Dayton, Ohio. Hydraulic jack. No. 1,016,692; Feb. 6; Sp. p. 1045; Gaz. vol. 175; p. 159.
Joyce, Frank I., Dayton, Ohio. Hydraulic jack. No. 1,046,073; Dec. 3; Gaz. vol. 185; p. 94.
Joyce, Peter M., Cleveland, Ohio. Bar-retaining means for tube-forming machines. No. 1,018,621; Feb. 27; Sp. p. 5333; Gaz. vol. 175; p. 925.
Joyce, Roy E., assignor of one-half to W. H. Shepard, Coffeyville, Kans. Meter-tester. No. 1,023,739; Apr. 16; Sp. p. 4167; Gaz. vol. 177; p. 732.
Joyce, William, *et al.* (See Simon, Henry, assignor.)
Joyner, Miles D., Savannah, Ga. Cross-head. No. 1,037,633; Sept. 3; Gaz. vol. 182; p. 152.
Joyner, William T., assignor of one-half to J. H. Corbitt, Suffolk, Va. Peanut-separator. No. 1,035,447; Aug. 13; Gaz. vol. 181; p. 385.
József, Blanár, Buffalo, N. Y. Filtering apparatus. No. 1,020,986; Mar. 26; Sp. p. 4222; Gaz. vol. 176; p. 784.
Juchniewicz, Jan, Wheatland, Pa. Street-car fender. No. 1,034,247; July 30; Gaz. vol. 180; p. 1312.
Judah, Chester A., Mill Valley, and H. R. Sander, Oakland, Cal. Life-saving apparatus for aviators. No. 1,015,684; Jan. 23; Sp. p. 5735; Gaz. vol. 174; p. 977.
Judd, Arthur C., New York, N. Y. Flexible packing for engine piston-rods and the like. No. 1,038,759; Sept. 17; Gaz. vol. 182; p. 604.
Judd, Henry S., and H. Pletsch, assignors to Judd Laundry Machine Company, Chicago, Ill. Wringer. No. 1,033,593; July 23; Gaz. vol. 180; p. 1061.
Judd, John F., Indianapolis, Ind., assignor to The Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 1,043,940; Nov. 12; Gaz. vol. 184; p. 345.
Judd Laundry Machine Company. (See Judd and Pletsch, assignors.)
Judelson, Louis, New York, N. Y. Mechanical movement. No. 1,026,514; May 14; Sp. p. 3143; Gaz. vol. 178; p. 518.
Judge, Franklin. (See Quentell and Judge.)
Judge, Hugh, Johnstown, N. Y. Knockdown stand or table. No. 1,026,748; May 21; Sp. p. 3642; Gaz. vol. 178; p. 633.
Judge, John W., and L. W. Wright, Parkston, S. D. Folding convertible go-cart and high chair. No. 1,033,324; July 23; Gaz. vol. 180; p. 973.
Judis, Charles, assignor to N. Loth, New York, N. Y. Hair ornament. No. 1,015,802; Jan. 30; Sp. p. 5967; Gaz. vol. 174; p. 1044.
Judkins, Charles E., Columbia River, Wash., assignor of one-half to C. Masini, Coeur d'Alene, Idaho. Hose-coupling. No. 1,042,684; Oct. 29; Gaz. vol. 183; p. 1149.
Judson, Adoniram B., New York, N. Y. Machine for picking, breaking, and operating on ice, coal, ores, and other substances. No. 1,020,762; Mar. 19; Sp. p. 3745; Gaz. vol. 176; p. 657.
Judson Governor Company. (See Osborne, John L., assignor.)
Judson L. Thomson M'fg Co. (See Havener, Arthur R., assignor.)
Judson, Walter H., assignor to J. D. Rice, Oakland, Cal. Pulp-machine. No. 1,015,803; Jan. 30; Sp. p. 5968; Gaz. vol. 174; p. 1044.
Judy, Wesley S., Dayton, Ohio. Stitching-clamp. No. 1,031,271; July 2; Gaz. vol. 180; p. 149.
Juengst, Charles A., Croton Falls, N. Y. Signature-gathering machine. No. 1,023,568; Apr. 16; Sp. p. 3858; Gaz. vol. 177; p. 679.
Juengst, Charles A., Croton Falls, N. Y. Device for applying adhesive material to the backs of books in covering-machines. No. 1,023,569; Apr. 16; Sp. p. 3862; Gaz. vol. 177; p. 680.
Juengst, Charles A., Croton Falls, N. Y. Gripper. No. 1,029,130; June 11; Sp. p. 2307; Gaz. vol. 179; p. 393.
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Juengst, Charles A., assignor to Higley Machine Company, Croton Falls, N. Y. Clutch. No. 1,014,481; Jan. 9; Sp. p. 3066; Gaz. vol. 174; p. 509.
Juhász, Jozsef, Unity Station, Pa. Lock. No. 1,035,196; Aug. 13; Gaz. vol. 181; p. 296.
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Julius, Harry P., St. Louis, Mo. Apparatus for making solid carbon dioxid. No. 1,018,568; Feb. 27; Sp. p. 5231; Gaz. vol. 175; p. 909.
Julyan, Frederick. (See Nind and Julyan.)
Julyan, Frederick, Chicago, Ill., assignor, by mesne assignments, to The American Multigraph Company, Cleveland, Ohio. Paper-folding machine. No. 1,046,193; Dec. 3; Gaz. vol. 185; p. 135.
Jung, John A., Cincinnati, Ohio. Flying-machine. No. 1,023,937; Apr. 23; Sp. p. 4656; Gaz. vol. 177; p. 828.
Jung, Karl, Grosspriesen-on-the-Elbe, assignor to Glasfabriken und Raffinerien Josef Inwald A. G., Vienna, Austria-Hungary. Forming hollow glass articles. No. 1,016,832; Feb. 6; Sp. p. 1327; Gaz. vol. 175; p. 204.
Jung, Robert. (See Wappler and Jung.)
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Jungclas, Edward H., Cincinnati, Ohio. Milk-bottle pitcher attachment. No. 1,027,421; May 28; Sp. p. 5147; Gaz. vol. 178; p. 903.
Jungers, John, Cedar Grove, Wis. Heater. No. 1,013,176; Jan. 2; Sp. p. 173; Gaz. vol. 174; p. 30.
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Junghans, Erhard. (See Holzwarth, Hans, assignor.)
Jungjohann, Frank, Davenport, Iowa. Means for adjusting clutch-inserts. No. 1,041,093; Oct. 15; Gaz. vol. 183; p. 546.
Junker, George J., Mount Vernon, Ill. Violin. No. 1,043,015; Oct. 29; Gaz. vol. 183; p. 1263.
Junkin, William D., *et al.* (See Morris, Charles D., assignor.)
Junkunc, John, Chicago, Ill. Lock. No. 1,042,447; Oct. 29; Gaz. vol. 183; p. 1066.
Jurack, Charles, Milwaukee, Wis. Snap-flask for molding. No. 1,041,292; Oct. 15; Gaz. vol. 183; p. 615.
Jurgens, Henry, Denver, Colo. Ice-cream freezer. No. 1,035,016; Aug. 6; Gaz. vol. 181; p. 205.
Jurin, Thomas R. (See McLean and Jurin.)
Jurkovich, George, Homer City, Pa. Wrench. No. 1,027,341; May 21; Sp. p. 4969; Gaz. vol. 178; p. 837.
Juruick, Maximilian F., New York, N. Y., assignor, by mesne assignments, to Electric Bank Protection Company. Burglar-alarm system. No. 1,019,481; Mar. 5; Sp. p. 1094; Gaz. vol. 176; p. 161.
Juruick, Maximilian F., New York, N. Y., assignor, by mesne assignments, to Electric Bank Protection Company. Burglar-alarm system. No. 1,038,594; Sept. 17; Gaz. vol. 182; p. 546.
Jusse, John, Telluride, Colo. Dinner-bucket. No. 1,021,531; Mar. 26; Sp. p. 5392; Gaz. vol. 176; p. 970.
Just, Alexander, and F. Hanaman, Budapest, Austria-Hungary, assignors to General Electric Company. Incandescent bodies for electric lamps. No. 1,018,502; Feb. 27; Sp. p. 5031; Gaz. vol. 175; p. 885.
Just, Thomas, Hartford, Conn. Music-clip. No. 1,016,274; Feb. 6; Sp. p. 71; Gaz. vol. 175; p. 14.
Justi & Son, H. D. (See Smith, Henry J., assignor.)
Justice, Charles E. (See Wood, John C. B., assignor.)
K. S. Box and Label Company, The. (See Denmead, John W., assignor.)
Kaaumoana, David and S., Honolulu, Hawaii. Adjustable tool-holder. No. 1,048,173; Dec. 24; Gaz. vol. 185; p. 922.
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Kaber, Daniel, Cleveland, Ohio. Sign character. No. 1,026,868; May 21; Sp. p. 3902; Gaz. vol. 178; p. 674.
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Kabitzsch, Hermann O., assignor to Firm of G. A. Meyer-Henniger, Hamburg, Germany. Telephone installation. No. 1,030,308; June 25; Sp. p. 4901; Gaz. vol. 179; p. 875.
Kabo Corset Company. (See De Long, Nelson, assignor.)
Kachel, Alfred, New York, N. Y. Hat-pin guard. No. 1,043,841; Nov. 12; Gaz. vol. 184; p. 311.
Kachel, Charles M. (See Goessling, Pauk, Kachel, and Heckel, assignors.)
Kacsmarik, Gustave R., New York, N. Y. Slide-rest. No. 1,036,257; Aug. 20; Gaz. vol. 181; p. 700.
Kaczynski, Feliks, Cohoes, N. Y. Bottle-closure. No. 1,023,653; Apr. 16; Sp. p. 4022; Gaz. vol. 177; p. 706.
Kadanecz, Mihâlj, St. Louis, Mo. Feed-bag. No. 1,033,705; July 23; Gaz. vol. 180; p. 1096.
Kadla, Stanley, Tullisville, Saskatchewan, Canada. Fishing-reel. No. 1,023,853; Apr. 23; Sp. p. 4447; Gaz. vol. 177; p. 799.
Kadow, August, assignor to The Westlake Machine Company, Toledo, Ohio. Making blown-glass articles. No. 1,021,048; Mar. 26; Sp. p. 4340; Gaz. vol. 176; p. 805.
Kadow, August, assignor to The Westlake Machine Company, Toledo, Ohio. Cut-off device. No. 1,040,346; Oct. 8; Gaz. vol. 183; p. 256.
Kaech, Edward E., Minneapolis, Minn. Check-holder. No. 1,022,682; Apr. 9; Sp. p. 1972; Gaz. vol. 177; p. 342.
Kaefer, John, Hamilton, Ohio. Expanding reamer. No. 1,038,384; Sept. 10; Gaz. vol. 182; p. 438.
Kaehler, Victoria L., Richmond, Va. Corset-waist. No. 1,033,105; July 23; Gaz. vol. 180; p. 897.
Kaerschke, Robert, assignor to A. Brandau, Detroit, Mich. Game. No. 1,028,467; June 4; Sp. p. 891; Gaz. vol. 179; p. 134.
Kaeser, Fritz J., Reno, Nev. Oil-burning system. No. 1,033,594; July 23; Gaz. vol. 180; p. 1061.
Kaestner, Herman, Cudahy, Wis. Bulge-hoop for barrels. No. 1,014,005; Jan. 9; Sp. p. 2049; Gaz. vol. 174; p. 345.
Kaetker, Henry, Cincinnati, Ohio. Electric-current controller. No. 1,037,016; Aug. 27; Gaz. vol. 181; p. 989.
Kafader, James O., Fort Bidwell, Cal. Suction water-motor. No. 1,033,595; July 23; Gaz. vol. 180; p. 1061.
Kahl, Leopold, Niederau, near Dresden, assignor to Rutgerswerke-Actiengesellschaft, Berlin, Germany. Ortho-oxalic-acid ester of meta-cresol and manufacture of the same. No. 1,028,074; May 28; Sp. p. 6553; Gaz. vol. 178; p. 1118.
Kahle, Dorsey P., Venus, Pa. Wrench. No. 1,048,542; Dec. 31; Gaz. vol. 185; p. 1084.
Kahle, Eugene C., Oil City, Pa. Stuffing-box. No. 1,015,685; Jan. 23; Sp. p. 5738; Gaz. vol. 174; p. 977.
Kahle, James C., Oil City, Pa. Temper-screw. No. 1,018,910; Feb. 27; Sp. p. 5938; Gaz. vol. 175; p. 1023.
Kahle, William, Los Angeles, Cal. Automatic drilling-tool. No. 1,034,368; July 30; Gaz. vol. 180; p. 1354.
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Kahn, Edward C., Milwaukee, Wis. Metallic fence-post. No. 1,048,414; Dec. 24; Gaz. vol. 185; p. 1001.
Kahn, Edward C., Milwaukee, Wis., assignor to Burglar Alarm Lock Company. Burglar-alarm and lock for windows. No. 1,031,008; July 2; Gaz. vol. 180; p. 56.
Kahn, Gustave, Detroit, Mich. Window-sash. No. 1,018,503; Feb. 27; Sp. p. 5032; Gaz. vol. 175; p. 885.
Kahn, Harry B., New York, N. Y. Electric-circuit-controlling system. No. 1,034,119; July 30; Gaz. vol. 180; p. 1267.
Kahn, Julius, assignor to Trussed Concrete Steel Company, Detroit, Mich. Building construction. No. 1,033,106; July 23; Gaz. vol. 180; p. 898.
Kahn, Julius, assignor to Trussed Concrete Steel Company, Detroit, Mich. Floor construction. No. 1,033,413; July 23; Gaz. vol. 180; p. 1002.
Kahn, Julius, assignor to Trussed Concrete Steel Company, Detroit, Mich. Structural member. No. 1,033,414; July 23; Gaz. vol. 180; p. 1002.
Kahn, Myrtil, and A. Ossenbeck, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Dye-bath and dyeing. No. 1,025,273; May 7; Sp. p. 357; Gaz. vol. 178; p. 58.
Kahn, Myrtil, and A. Ossenbeck, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Azo dye. No. 1,025,983; May 14; Sp. p. 1945; Gaz. vol. 178; p. 336.
Kahn, Myrtil, and A. Ossenbeck, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Brown azo dye. No. 1,025,984; May 14; Sp. p. 1946; Gaz. vol. 178; p. 336.
Kahn, Myrtil, and A. Ossenbeck, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Azo dye. No. 1,027,132; May 21; Sp. p. 4562; Gaz. vol. 178; p. 766.
Kahn, Nathaniel, assignor of one-half to S. L. Root, New York, N. Y. Window-sash lock. No. 1,043,842; Nov. 12; Gaz. vol. 184; p. 311.
Kahn, Robert, Frankfort-on-the-Main, assignor to Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany. Arseno compounds and making same. No. 1,026,094; May 14; Sp. p. 2227; Gaz. vol. 178; p. 376.
Kahn, Robert, Frankfort-on-the-Main, assignor to Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany. Arseno compound and making same. No. 1,033,904; July 30; Gaz. vol. 180; p. 1192.
Kahne, Bertha L., and A. L. Roberts, Ashland, Ky. Car-coupling. No. 1,040,690; Oct. 8; Gaz. vol. 183; p. 380.
Kaighn, James B., Philadelphia, Pa. Check-controlled apparatus. No. 1,047,651; Dec. 17; Gaz. vol. 185; p. 717.
Kail, Arthur C., U. S. Navy. Signaling-machine. No. 1,047,069; Dec. 10; Gaz. vol. 185; p. 477.
Kail, Jackson L., Chicago, Ill. Door-hanger. No. 1,033,177; July 23; Gaz. vol. 180; p. 922.
Kailor, John N., assignor to Reeves & Company, Columbus, Ind. Corn-sheller feeder. No. 1,039,293; Sept. 24; Gaz. vol. 182; p. 804.
Kain, John J. (See Davis and Kain.)
Kainer, Frederick C., South Haven, Mich., assignor to Pope Automatic Merchandising Company, Chicago, Ill. Repeating mechanism for check-controlled apparatus. No. 1,036,258; Aug. 20; Gaz. vol. 181; p. 700.
Kaiser, Alfred F., Detroit, Mich. Automatic bell-switch. No. 1,017,101; Feb. 13; Sp. p. 1952; Gaz. vol. 175; p. 335.
Kaiser, Eduard. (See Sensenschmidt and Kaiser.)
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Kaiser, George H., Portland, Oreg. Machine for making sanitary drinking-cups. No. 1,018,911; Feb. 27; Sp. p. 5940; Gaz. vol. 175; p. 1023.
Kaiser, Gus M., and A. S. Hecht, New York, N. Y. Toy aeroplane. No. 1,035,017; Aug. 6; Gaz. vol. 181; p. 205.
Kaiser, Henry, New Holstein, Wis. Fruit-jar-cap sealer. No. 1,038,760; Sept. 17; Gaz. vol. 182; p. 604.
Kaiser, Joseph M., Chicago, Ill. Pocket. No. 1,014,307; Jan. 9; Sp. p. 2697; Gaz. vol. 174; p. 450.
Kaiser, Paul G., Chicago, Ill. Machine for forming paper tubes. No. 1,034,915; Aug. 6; Gaz. vol. 181; p. 172.
Kaiser, William, Wilkes-Barre, Pa. Combined seat-dresser and cutter-holder. No. 1,041,479; Oct. 15; Gaz. vol. 183; p. 676.
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Kaisling, William, assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Spring-armature relay. No. 1,016,567; Feb. 6; Sp. p. 779; Gaz. vol. 175; p. 115.
Kaisling, William, Chicago, Ill., assignor to Kellogg Switchboard & Supply Company. Signal-transmitter. No. 1,035,354; Aug. 13; Gaz. vol. 181; p. 353.
Kaisling, William, Chicago, Ill., assignor, by mesne assignments, to Kellogg Switchboard & Supply Company. Telephone-support. No. 1,035,355; Aug. 13; Gaz. vol. 181; p. 354.
Kalbfleisch, Franklin H., Babylon, N. Y. Sizing agent and making same. No. 1,029,131; June 11; Sp. p. 2308; Gaz. vol. 179; p. 393.
Kaler, Henry, Rantoul, Ill. Grain-door for freight-cars. No. 1,025,094; Apr. 30; Sp. p. 7194; Gaz. vol. 177; p. 1260.
Kaley, Elmer B., assignor of one-half to W. H. Thomas, Indianapolis, Ind. Carbureter. No. 1,041,480; Oct. 15; Gaz. vol. 183; p. 676.
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Kalina, Joseph A. (See Bury, Frank, assignor.)
Kalina, Loeser, New York, N. Y. Removable heel. No. 1,042,924; Oct. 29; Gaz. vol. 183; p. 1232.
Kalina, Loeser, New York, N. Y. Combined cuff-button and cutter. No. 1,048,415; Dec. 24; Gaz. vol. 185; p. 1002.
Kalish, Leo. (See Sroka and Kalish.)
Kalivoda, Josef J., Chicago, Ill. Locking device for folding doors. No. 1,039,952; Oct. 1; Gaz. vol. 183; p. 93.
Kalivoda, Josef J., Chicago, Ill. Locking device for folding doors. No. 1,039,953; Oct. 1; Gaz. vol. 183; p. 94.
Kalla, Thomas, Oppeln, Germany. Suspended bridge. No. 1,019,655; Mar. 5; Sp. p. 1428; Gaz. vol. 176; p. 219.
Kallajian, Lazarus S., Boston, Mass. Coaster-brake. No. 1,042,006; Oct. 22; Gaz. vol. 183; p. 890.
Kallander, Oscar, Jamestown, N. Y. Folding bed. No. 1,021,607; Mar. 26; Sp. p. 5539; Gaz. vol. 176; p. 994.
Kalle and Company, Aktiengesellschaft. (See Bucherer, Hans, assignor.)
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Kallin, Oscar, New Britain, Conn. Pocket-knife. No. 1,043,438; Nov. 5; Gaz. vol. 184; p. 140.
Kallis, Isidore S., and J. Berg, New York, N. Y. Hat-form. No. 1,037,017; Aug. 27; Gaz. vol. 181; p. 989.
Kallman, Richard, Davenport, Iowa. Device for handling baking-pans. No. 1,031,649; July 2; Gaz. vol. 180; p. 277.
Kalmanovits, Louis, assignor of one-half to J. Orwan, New York, N. Y. Clothes-line hanger. No. 1,043,604; Nov. 5; Gaz. vol. 184; p. 199.
Kalthoff, Albrecht, assignor to H. D. Berner & Winterbauer Company, New York, N. Y. Liquid-dispensing apparatus. No. 1,038,595; Sept. 17; Gaz. vol. 182; p. 546.
Kamerer, Emanuel A., assignor of one-fourth to J. W. McDaniel, Dickson, Tenn. Nut-lock. No. 1,033,706; July 23; Gaz. vol. 180; p. 1096.
Kaminski, Joseph F., Duluth, Minn. Snow-shoe. No. 1,014,482; Jan. 9; Sp. p. 3067; Gaz. vol. 174; p. 509.
Kamm, Leo, London, England. Condenser-cell for kinematograph and optical lanterns. No. 1,032,065; July 9; Gaz. vol. 180; p. 462.
Kämmer, Paul, Elbing, Germany. Apparatus for lavatory installations. No. 1,027,342; May 21; Sp. p. 4970; Gaz. vol. 178; p. 837.
Kammerer, William. (See Schneider, Ritchie, and Kammerer.)
Kamp, Charles, and E. Schoppe, Jersey City, N. J. Spool-holder. No. 1,037,148; Aug. 27; Gaz. vol. 181; p. 1032.
Kampe, John F., Brooklyn, N. Y. Bed-protector. No. 1,017,153; Feb. 13; Sp. p. 2058; Gaz. vol. 175; p. 353.
Kampfe Bros. (See Kampfe, Otto, assignor.)
Kampfe Brothers. (See Groschopp, Friedrich W., assignor.)
Kampfe, Otto, New York, N. Y. Trap for animals. No. 1,033,761; July 23; Gaz. vol. 180; p. 1113.
Kampfe, Otto, New York, N. Y. Candle-holder. No. 1,035,711; Aug. 13; Gaz. vol. 181; p. 472.
Kampfe, Otto, New York, N. Y. Cover for vessels. No. 1,039,140; Sept. 24; Gaz. vol. 182; p. 748.
Kampfe, Otto, New York, N. Y., assignor to Kampfe Bros. Safety-razor. No. 1,040,347; Oct. 8; Gaz. vol. 183; p. 257.
Kampfe, Richard, New York, N. Y. Safety-razor frame. No. 1,013,602; Jan. 2; Sp. p. 1106; Gaz. vol. 174; p. 178.
Kamppi, Jacob, Elsie, Oreg. Spring-wheel. No. 1,035,446; Aug. 13; Gaz. vol. 181; p. 385.
Kamradt, Charles, *et al.* (See Andel, Joseph, assignor.)
Kando, Coloman de, Budapest, Austria-Hungary. Polyphase-motor cascade driving system. No. 1,046,601; Dec. 10; Gaz. vol. 185; p. 318.
Kane, Frank A., Minooka, Pa. Receptacle. No. 1,042,448; Oct. 29; Gaz. vol. 183; p. 1066.
Kane, John H., assignor of one-half to J. B. Cramer, Wichita, Kans. Pump. No. 1,020,355; Mar. 12; Sp. p. 2844; Gaz. vol. 176; p. 482.
Kane, John M., Parkersburg, W. Va. Derrick. No. 1,031,123; July 2; Gaz. vol. 180; p. 97.
Kane Machinery Company. (See Kane, Peter W., assignor.)
Kane, Martin J., Bayonne, N. J. Reflector-support. No. 1,024,900; Apr. 30; Sp. p. 6799; Gaz. vol. 177; p. 1195.
Kane, Michael H., Worcester, Mass. Meter-record. No. 1,021,317; Mar. 26; Sp. p. 4899; Gaz. vol. 176; p. 895.
Kane, Patrick, North Brookfield, Mass. Fountain-brush. No. 1,032,549; July 16; Gaz. vol. 180; p. 671.
Kane, Patrick H., Buffalo, N. Y. Turbine-blower. No. 1,017,001; Feb. 13; Sp. p. 1716; Gaz. vol. 175; p. 299.
Kane, Peter W., Chicago, Ill., assignor to Kane Machinery Company. Starting device for explosive-engines. No. 1,035,356; Aug. 13; Gaz. vol. 181; p. 354.
Kane, Thomas H., Youngstown, Ohio, assignor to Trussed Concrete Steel Company, Detroit, Mich. Window construction. No. 1,023,938; Apr. 23; Sp. p. 4661; Gaz. vol. 177; p. 828.
Kane, Thomas H., Youngstown, Ohio, assignor to Trussed Concrete Steel Company, Detroit, Mich. Window construction. No. 1,031,124; July 2; Gaz. vol. 180; p. 97.
Kane, Thomas H., Youngstown, Ohio, assignor to Trussed Concrete Steel Company, Detroit, Mich. Forming ribbed lath. No. 1,039,954; Oct. 1; Gaz. vol. 183; p. 94.
Kann, Gustave H., *et al.* (See Rose, Max C., assignor.)
Kann, M. M., *et al.* (See Rose, Max C., assignor.)
Kannenberg, Baldwin H., Maywood, Ill., assignor to American Can Company, New York, N. Y. Closure for hermetically-sealed food-preserving cans. No. 1,039,753; Oct. 1; Gaz. vol. 183; p. 28.
Kanonenberg, Heinrich. (See Heilemann and Kanonenberg.)
Kansas City Billiard Table Manufacturing Company, The. (See Treiber, Theodore R., assignor.)
Kansas City Hay Press Company, The. (See Burkett, John W., assignor.)
Kansas Voting Machine Company, The. (See Currey, Charles F., assignor.)
Kant, Gustav, assignor to Firm of A. W. Nagel, Barmen, Germany. Lace insertion. No. 1,033,178; July 23; Gaz. vol. 180; p. 923.
Kanter, Gustav, Murtoa, Victoria, Australia. Pneumatic vehicle-wheel. No. 1,036,855; Aug. 27; Gaz. vol. 181; p. 935.
Kanter, Gustav, Murtoa, Victoria, Australia. Pneumatic shock-absorber for vehicles. No. 1,036,856; Aug. 27; Gaz. vol. 181; p. 936.
Kanter, William, Cleveland, Ohio. Animal-trap. No. 1,048,318; Dec. 24; Gaz. vol. 185; p. 969.
Kantrowitz, Bernard A., New York, N. Y. Filter. No. 1,042,233; Oct. 22; Gaz. vol. 183; p. 965.
Kantrowitz, Bernard A., New York, N. Y. Filter. No. 1,047,070; Dec. 10; Gaz. vol. 185; p. 478.
Kaplan, Fredrick, Beloit, Wis. Collapsible vehicle. No. 1,027,483; May 28; Sp. p. 5260; Gaz. vol. 178; p. 922.
Kaplan, Jak M., Chicago, Ill. Head-rest. No. 1,033,905; July 30; Gaz. vol. 180; p. 1192.
Kapp, George, and B. S. Hyatt, Vinita, Okla. Folding car-step. No. 1,030,409; June 25; Sp. p. 5115; Gaz. vol. 179; p. 912.
Kappeler, Mamie, executrix. (See Kappeler, William J.)
Kappeler, William J., deceased; M. Kappeler, executrix, Akron, Ohio. Window-canopy. No. 1,034,388; July 30; Gaz. vol. 180; p. 1361.
Kappen, Hubert. (See Immendorff and Kappen.)
Kapper, Herman, Treptow, near Berlin, assignor to Deutsche Waffen & Munitionsfabriken, Berlin, Germany. Ball-cage for ball-bearings. No. 1,026,749; May 21; Sp. p. 3644; Gaz. vol. 178; p. 634.
Kappes, William H. (See Verdin and Kappes.)
Karamees, Peter, Douglas, Ariz. Automatic cut-off valve. No. 1,042,557; Oct. 29; Gaz. vol. 183; p. 1104.
Karcher, Otto, Canton, Ohio. Clipper. (Reissue.) No. 13,463; Aug. 27; Gaz. vol. 181; p. 1047.
Karcher, Otto, Canton, Ohio. Lawn-trimmer. No. 1,037,634; Sept. 3; Gaz. vol. 182; p. 153.
Karcher, Otto, assignor of one-half to W. von Gunten, Canton, Ohio. Grass-clipper. No. 1,032,485; July 16; Gaz. vol. 180; p. 649.
Karches, Fred W., assignor to Fidel Ganahl Lumber Company, St. Louis, Mo. Lumber-truck. No. 1,036,636; Aug. 27; Gaz. vol. 181; p. 862.
Kardos, Emanuel, Limehouse, London, assignor to The London Electron Works Company Limited, London, England. Apparatus for compressing scrap metal into blocks. No. 1,026,987; May 21; Sp. p. 4200; Gaz. vol. 178; p. 717.
Karcmarcyk, Szczepan, New Bedford, Mass. Envelop-moistening device. No. 1,021,532; Mar. 26; Sp. p. 5393; Gaz. vol. 176; p. 971.
Kargau, Theodore, assignor to The Peerless Electric Company, Warren, Ohio. Centrifugal switch for alternating-current motors. No. 1,013,780; Jan. 2; Sp. p. 1519; Gaz. vol. 174; p. 241.

Alphabetical list of patentees—Continued.

Kargau, Theodore, St. Louis, Mo., assignor to Westinghouse Electric and Manufacturing Company. Oscillating fan. No. 1,031,853; July 9; Gaz. vol. 180; p. 391.
Karger, Manasse, New Orleans, La. Cigarette-packer. No. 1,021,194; Mar. 26; Sp. p. 4645; Gaz. vol. 176; p. 851.
Karhan, August, New York, N. Y. Device for splitting carcasses. No. 1,028,468; June 4; Sp. p. 892; Gaz. vol. 179; p. 134.
Karhu, John, Calumet, assignor of one-half to R. T. Looney, Hancock, Mich. Dumping-car. No. 1,046,602; Dec. 10; Gaz. vol. 185; p. 319.
Karle, George J., Buffalo, N. Y. Saw-jointer. No. 1,024,007; Apr. 23; Sp. p. 4792; Gaz. vol. 177; p. 851.
Karle, John D., Bridgeport, Conn., assignor to The Singer Manufacturing Company. Bobbin-winder for sewing-machines. No. 1,014,483; Jan. 9; Sp. p. 3068; Gaz. vol. 174; p. 510.
Karle, John D., Bridgeport, Conn., assignor to The Singer Manufacturing Company. Embroidering attachment for sewing-machines. No. 1,018,622; Feb. 27; Sp. p. 5334; Gaz. vol. 175; p. 926.
Karlson, Julius H. (See Gran and Karlson.)
Karminski, Maxim, and C. Peters, Thompsonville, Conn. Alarm. No. 1,031,272; July 2; Gaz. vol. 180; p. 150.
Karminski, Maxim, and C. Peters, Thompsonville, Conn. Liquid transmission apparatus. No. 1,047,948; Dec. 24; Gaz. vol. 185; p. 847.
Karnes, Frank, Geneseo, Ill. Fly-trap. No. 1,019,257; Mar. 5; Sp. p. 549; Gaz. vol. 176; p. 87.
Karns, John P., Boulder, Colo. Universal-joint coupling for drilling-machines. No. 1,030,663; June 25; Sp. p. 5869; Gaz. vol. 179; p. 1004.
Karns, John P., assignor to J. P. Karns Tunneling Machine Co., Boulder, Colo. Drilling-machine. No. 1,023,654; Apr. 16; Sp. p. 4023; Gaz. vol. 177; p. 706.
Karp, Morris, assignor to Passaic Metal Ware Company, Passaic, N. J. Machine for testing containers. No. 1,042,558; Oct. 29; Gaz. vol. 183; p. 1104.
Karpa, Carl, Berlin, assignor to Stahlwerk Becker Aktiengesellschaft, Willich, Germany. Combined boring and reaming tool. No. 1,032,682; July 16; Gaz. vol. 180; p. 717.
Karpisek, Felix, Wilber, Nebr. Oil-can. No. 1,027,254; May 21; Sp. p. 4795; Gaz. vol. 178; p. 808.
Karpów, Leon, Winnipeg, Manitoba, Canada. Electric rat-trap. No. 1,030,093; June 18; Sp. p. 4418; Gaz. vol. 179; p. 763.
Karr, James W. (See Copeland, George W., assignor.)
Karr, Milo M., Doniphan, Nebr. Expansion-pulley. No. 1,016,158; Jan. 30; Sp. p. 6714; Gaz. vol. 174; p. 1167.
Karsch, Oswald J. (See Bell, William H., assignor.)
Karsitz, Frank. (See Alvord and Karsitz.)
Karstedt, Hermann L., Stony Hill, Mo. Cabinet and trays therefor. No. 1,015,686; Jan. 23; Sp. p. 5740; Gaz. vol. 174; p. 978.
Kaschewski, Frederick, Oskaloosa, Iowa. Garment-pocket. No. 1,018,912; Feb. 27; Sp. p. 5942; Gaz. vol. 175; p. 1024.
Kaschewski, Frederick, Oskaloosa, Iowa. Suspenders. No. 1,035,357; Aug. 13; Gaz. vol. 181; p. 355.
Kashian, Minas H., Amesbury Mass. Machine for forming seat-bodies. No. 1,016,416; Feb. 6; Sp. p. 400; Gaz. vol. 175; p. 63.
Kasindorf, Isaac, New York, N. Y. Watch-album. No. 1,022,090; Apr. 2; Sp. p. 718; Gaz. vol. 177; p. 114.
Kasley, Alexander T., Swissvale, assignor, by mesne assignments, to The Colonial Trust Company, trustee, Pittsburgh, Pa. Means for conserving heat. No. 1,025,274; May 7; Sp. p. 357; Gaz. vol. 178; p. 58.
Kasley, Alexander T., Swissvale, assignor, by mesne assignments, to The Colonial Trust Company, trustee, Pittsburgh, Pa. Gas-turbine. No. 1,031,718; July 9; Gaz. vol. 180; p. 344.
Kasmirsky, Albert. (See Gray, Neil, assignor.)
Kassander, Leopold, and O. Best, assignors to Nathan Manufacturing Company, New York, N. Y. Lubricator. No. 1,022,741; Apr. 9; Sp. p. 2131; Gaz. vol. 177; p. 365.
Kassander, Leopold, and O. Best, assignors to Nathan Manufacturing Company, New York, N. Y. Lubricator. No. 1,022,952; Apr. 9; Sp. p. 2570; Gaz. vol. 177; p. 436.
Kassik, Henry, Yonkers, N. Y. Overshoe for horses. No. 1,029,132; June 11; Sp. p. 2310; Gaz. vol. 179; p. 394.
Kast, Edward R., Baltimore, Md. Alining device for signature-gathering machines. No. 1,030,891; July 2; Gaz. vol. 180; p. 14.
Kast, Edward R., Baltimore, Md. Calipering device for signature-gathering machines. No. 1,039,541; Sept. 24; Gaz. vol. 182; p. 890.
Kastengren, Gustavus E., assignor of one-half to J. E. Reynolds and W. S. Geary, Seattle, Wash. Can-labeling machine. No. 1,044,393; Nov. 12; Gaz. vol. 184; p. 500.
Kästner, Alfred, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Loading device for portable guns. No. 1,040,210; Oct. 1; Gaz. vol. 183; p. 181.
Kastner, Elmer G. (See Johnson, William W., assignor.)
Kästner, Franz, Berlin, Germany, assignor to General Electric Company. Circuit-controlling device. No. 1,028,360; June 4; Sp. p. 652; Gaz. vol. 179; p. 98.
Kastner, Macarius M., and C. Katz, London, England; said Katz assignor to said Kastner. Pneumatic piano-player and the like. No. 1,038,761; Sept. 17; Gaz. vol. 182; p. 604.
Kastor, Richard H. (See Hooker, Edward W., assignor.)
Kaszner, Georg, Münster, Germany, assignor to Rheinische Dampfkessel und Maschinen-Fabrik Büttner G. m. b. H., Uerdingen-on-the-Rhine, Germany. Obtaining and separating oxygen and nitrogen from the atmosphere. No. 1,015,566; Jan. 23; Sp. p. 5462; Gaz. vol. 174; p. 936.
Katsky, Morris. (See Carlson, Edwin R., assignor.)
Katusky, Bedford, Jackson county, Minn. Window-sash. No. 1,032,143; July 9; Gaz. vol. 180; p. 487.
Katz, Conrad. (See Kastner and Katz.)
Katzenberger, Charles, Hoboken, N. J. Composition of matter for making formaldehyde candles. No. 1,047,416; Dec. 17; Gaz. vol. 185; p. 632.
Katzenberger, Oscar, Chicago, Ill. Alining-plate for floor-hinges. No. 1,018,391; Feb. 20; Sp. p. 4765; Gaz. vol. 175; p. 815.
Katzenberger, Oscar, Chicago, Ill. Alining-plate for floor-hinges. No. 1,037,149; Aug. 27; Gaz. vol. 181; p. 1033.
Katzenstein, Leo, Wiesbaden, Germany. Apparatus for moistening and separating stamps and the like. No. 1,016,015; Jan. 30; Sp. p. 6425; Gaz. vol. 174; p. 1118.
Katzenstein, William C. (See Barr, Charles D., assignor.)
Kauffeld, Louis, Star City, W. Va. Making reflectors. No. 1,024,264; Apr. 23; Sp. p. 5384; Gaz. vol. 177; p. 943.
Kauffman, Milton H., Denver, Colo. Sintering-furnace. No. 1,045,853; Dec. 3; Gaz. vol. 185; p. 20.
Kauffmann, Julius, Berlin, Germany. Renovating cotton-waste. No. 1,026,267; May 14; Sp. p. 2594; Gaz. vol. 178; p. 434.
Kauffmann Kase Kompany. (See Kauffmann, Lou B., assignor.)
Kauffmann, Lou B., assignor to Kauffmann Kase Kompany, New York, N. Y. Metal-shaping machine. No. 1,015,324; Jan. 23; Sp. p. 4935; Gaz. vol. 174; p. 853.
Kauffmann, Lou B., assignor to Kauffmann Kase Kompany, New York, N. Y. Crate. No. 1,030,845; June 25; Sp. p. 6422; Gaz. vol. 179; p. 1070.
Kauffold, Frederick H., Alliance, Nebr. Corn shocker, cutter, and harvester. No. 1,032,683; July 16; Gaz. vol. 180; p. 718.
Kaufman, Adam, assignor to Res Manufacturing Company, Milwaukee, Wis. Rack for vessels. No. 1,017,102; Feb. 13; Sp. p. 1953; Gaz. vol. 175; p. 336.
Kaufman, Adam W., assignor to Res Manufacturing Company, Milwaukee, Wis. Detachable roller. No. 1,023,939; Apr. 23; Sp. p. 4662; Gaz. vol. 177; p. 828.
Kaufman, Charles L., Westbrook, Me. Animal-trap. No. 1,046,799; Dec. 10; Gaz. vol. 185; p. 390.
Kaufman, Gustave, New York, N. Y., and C. Meriwether, Montclair, N. J. Water-conduit. No. 1,013,660; Jan. 2; Sp. p. 1260; Gaz. vol. 174; p. 198.
Kaufman, Irving, Baltimore, Md. Pin-ticket. No. 1,030,471; June 25; Sp. p. 5270; Gaz. vol. 179; p. 935.
Kaufman, Joseph, New York, N. Y. Stropping-machine. No. 1,025,572; May 7; Sp. p. 1049; Gaz. vol. 178; p. 162.
Kaufmann, Jacob, Wilmersdorf, near Berlin, Germany. Inlaying metal in masses such as celluloid, ebonite, and the like. No. 1,024,203; Apr. 23; Sp. p. 5252; Gaz. vol. 177; p. 920.
Kaufmann, Jacob, assignor to Steel Heddle Manufacturing Company, Philadelphia, Pa. Harness for cross-weaving. No. 1,037,150; Aug. 27; Gaz. vol. 181; p. 1033.
Kaufmann, Jacob, assignor to Steel Heddle Manufacturing Company, Philadelphia, Pa. Harness for cross-weaving. No. 1,037,151; Aug. 27; Gaz. vol. 181; p. 1033.
Kaufmann, Raymond M. (See Freeble, Thomas M., assignor.)
Kaul, George W., Helper, Utah. Hot-water bottle. No. 1,015,445; Jan. 23; Sp. p. 5204; Gaz. vol. 174; p. 894.
Kaull, Burt J., La Fayette, Ind. Corn-picker. No. 1,023,320; Apr. 16; Sp. p. 3369; Gaz. vol. 177; p. 601.
Kaulynskas, Joseph J. V., Philadelphia, Pa. Aerocraft. No. 1,013,851; Jan. 2; Sp. p. 1681; Gaz. vol. 174; p. 266.
Kaulynskas, Joseph J. V., Philadelphia, Pa. Aerocraft. No. 1,017,218; Feb. 13; Sp. p. 2211; Gaz. vol. 175; p. 376.
Kaulynskas, Joseph J. V., Philadelphia, Pa. Flying-machine. No. 1,034,120; July 30; Gaz. vol. 180; p. 1267.
Kaunitz, Nils W., Hoquiam, Wash. Shock-absorbing spring. No. 1,044,661; Nov. 19; Gaz. vol. 184; p. 624.
Kauth, Johannes, Wiesbaden, Germany. Furnace. No. 1,028,572; June 4; Sp. p. 1109; Gaz. vol. 179; p. 168.
Kautzký, Adolph, Los Angeles, Cal. Underground-trolley system. No. 1,034,016; July 30; Gaz. vol. 180; p. 1232.
Kavacewich, Charles. (See Stefanowitch, Lazar, assignor.)
Kavanagh, James A., New York, N. Y. Food-package. No. 1,042,119; Oct. 22; Gaz. vol. 183; p. 927.
Kavenaugh, Joseph T. (See Hazard, Frank A., assignor.)

Alphabetical list of patentees—Continued.

Kavle, Oscar C., assignor to H. A. Moyer, Syracuse, N. Y. Type-writing machine. No. 1,018,062; Feb. 20; Sp. p. 4074; Gaz. vol. 175; p. 703.
Kavle, Oscar C., assignor to H. A. Moyer, Syracuse, N. Y. Paper-feed mechanism for type-writing machines. No. 1,033,415; July 23; Gaz. vol. 180; p. 1002.
Kawasaki, Goro, Chicago, Ill. Saw. No. 1,046,800; Dec. 10; Gaz. vol. 185; p. 390.
Kay, Arethusa, *et al.* (See Kay, Samuel P., assignor.)
Kay, George H., Naugatuck, Conn. Combined package and toy. No. 1,013,941; Jan. 9; Sp. p. 1906; Gaz. vol. 174; p. 324.
Kay, Robert D. (See Walsh and Kay.)
Kay, Samuel P., assignor of one-third to G. F. Roth, one-third to F. B. Graves, Rochester, N. Y., and one-sixth to A. Kay. Trolley-retriever. No. 1,026,955; May 21; Sp. p. 4144; Gaz. vol. 178; p. 706.
Kay, William W., assignor to National Recorder Company, St. Louis, Mo. Conductor's cash-fare register. (Reissue.) No. 13,373; Feb. 27; Sp. p. 6173; Gaz. vol. 175; p. 1060.
Kaye, Frank, and R. W. Rogers, Meridian, Miss. Box. No. 1,024,482; Apr. 23; Sp. p. 5833; Gaz. vol. 177; p. 1014.
Kayetan, John, Cold Spring, N. Y. Razor-honing machine. No. 1,030,256; June 18; Sp. p. 4750; Gaz. vol. 179; p. 817.
Kaylor, William, assignor of one-half to S. R. Taylor, Muscogee, Okla. Railway-switch joint. No. 1,026,515; May 14; Sp. p. 3145; Gaz. vol. 178; p. 518.
Kayser, Adolf. (See Cowles and Kayser.)
Kayser, Frank, Toledo, Ohio. Pottery-machine. No. 1,024,511; Apr. 30; Sp. p. 5935; Gaz. vol. 177; p. 1059.
Kayser, Grace, administratrix. (See Cowles and Kayser.)
Kayser, Hans, Nuremberg, Germany. Evaporating apparatus. No. 1,036,637; Aug. 27; Gaz. vol. 181; p. 862.
Keagy, Charles O., and J. R. Carmer, Wilmington, Del. Holder or mail-box. No. 1,018,913; Feb. 27; Sp. p. 5943; Gaz. vol. 175; p. 1024.
Keagy, Charles O., and J. R. Carmer, Wilmington, Del. Collapsible stake-pocket. No. 1,046,305; Dec. 3; Gaz. vol. 185; p. 177.
Keagy, Martin L., Canton, Ohio. Embroidery-hoop. No. 1,039,141; Sept. 24; Gaz. vol. 182; p. 749.
Keall, Frank B., Leicester, England, assignor to United Shoe Machinery Company, Paterson, N. J. Mechanism for controlling the relative position of a tool and work. No. 1,048,174; Dec. 24; Gaz. vol. 185; p. 922.
Keane, Francis M., Botsford Station, Conn. Button-making machine. No. 1,036,857; Aug. 27; Gaz. vol. 181; p. 936.
Kearney, Edward J., Wauwatosa, and T. Trecker, West Allis, Wis. Speed-changing gearing. No. 1,019,798; Mar. 12; Sp. p. 1708; Gaz. vol. 176; p. 298.
Kearney, George F., Detroit, Mich. Paper-roll holder. No. 1,047,535; Dec. 17; Gaz. vol. 185; p. 674.
Kearney, Katherine. (See Garrison, William T., assignor.)
Kearns, John C., Lewistown, Pa. Pruning implement. No. 1,042,559; Oct. 29; Gaz. vol. 183; p. 1104.
Kearns Manufacturing Company. (See Rae, John, assignor.)
Kearns, Richard, Mammoth, Pa. Coke-oven door. No. 1,013,177; Jan. 2; Sp. p. 175; Gaz. vol. 174; p. 31.
Keary, William J., Schenectady, N. Y. Fastener. No. 1,040,957; Oct. 8; Gaz. vol. 183; p. 466.
Keating, George F., Portland, Oreg. Buoy attachment for submarine boats. No. 1,014,398; Jan. 9; Sp. p. 2916; Gaz. vol. 174; p. 483.
Keating, William H. (See Alexander, Jesse, assignor.)
Keator, Warren B., Findlay, Ohio. Automatic clutch-release. No. 1,017,219; Feb. 13; Sp. p. 2213; Gaz. vol. 175; p. 376.
Keays, Ansley A., Los Angeles, Cal. Hot-air furnace. No. 1,043,941; Nov. 12; Gaz. vol. 184; p. 346.
Keck, Charles R., Springfield, Ill. Rail-joint. No. 1,028,027; May 28; Sp. p. 6432; Gaz. vol. 178; p. 1103.
Keck, Harvey, and O. Edwards, Oakwood, Ohio. Floodgate. No. 1,034,248; July 30; Gaz. vol. 180; p. 1313.
Keck, William M., Coalinga, Cal. Underreamer. No. 1,040,348; Oct. 8; Gaz. vol. 183; p. 257.
Keddy, Clifford L., West Lynn, Mass. Oar-lock. No. 1,021,721; Mar. 26; Sp. p. 5742; Gaz. vol. 176; p. 1031.
Keeble, George. (See Ralph, Stephen J., assignor.)
Keefe, Joseph, Boston, assignor to J. H. Parker, Saugus Mass. Outlet-box. No. 1,039,955; Oct. 1; Gaz. vol. 183; p. 94.
Keefer, Robert M. (See Middleton, Keefer, and Ballamy.)
Keel, Charles E., Indianapolis, Ind. Variable-speed gearing. No. 1,025,807; May 7; Sp. p. 1529; Gaz. vol. 178; p. 241.
Keeler, Morris H., Sabetha, Kans. Machine for laying pipes. No. 1,015,893; Jan. 30; Sp. p. 6166; Gaz. vol. 174; p. 1075.
Keeley, Eugene M., *et al.* (See Fitzgerald, John J., assignor.)
Keen, Thomas W. (See Horton and Keen.)
Keenan, Joseph M., *et al.* (See Miller, Charles E., assignor.)
Keenan, Joseph P., Waterbury, Conn. Bowling-alley. No. 1,025,808; May 7; Sp. p. 1532; Gaz. vol. 178; p. 242.
Keene, Louis A., Waterman, and M. R. Pharis, Chicago, Ill. Manure-spreader. No. 1,047,071; Dec. 10; Gaz. vol. 185; p. 478.
Keene, William J., assignor to Chicago Spring Butt Company, Chicago, Ill. Spring-hinge. No. 1,032,144; July 9; Gaz. vol. 180; p. 487.
Keener, James P., Brockton, Mass. Shoe-filler composition. No. 1,019,964; Mar. 12; Sp. p. 2044; Gaz. vol. 176; p. 353.
Keenleyside, Thomas W., Bisbee, Ariz. Electric burglar-alarm. No. 1,039,142; Sept. 24; Gaz. vol. 182; p. 749.
Keeran, Charles R., Bloomington, Ill. Jar-seal. No. 1,040,211; Oct. 1; Gaz. vol. 183; p. 182.
Keers, John, Brooklyn, N. Y. Package-elevator. No. 1,037,635; Sept. 3; Gaz. vol. 182; p. 153.
Kees, Frederick, Minneapolis, Minn. Time-check holder. No. 1,026,268; May 14; Sp. p. 2595; Gaz. vol. 178; p. 434.
Kees, Frederick, Minneapolis, Minn. Sidewalk-cover. No. 1,030,410; June 25; Sp. p. 5118; Gaz. vol. 179; p. 913.
Keeter, Andrew F., Catoosa, Okla. Corn-planter. No. 1,014,064; Jan. 9; Sp. p. 2183; Gaz. vol. 174; p. 365.
Kehoe, Charles S., *et al.*, executors. (See Barratt, William T., assignor.)
Keichline, Anna W., Bellefonte, Pa. Sink. No. 1,047,072; Dec. 10; Gaz. vol. 185; p. 478.
Keighley, Charles, assignor to The Keighley Company, Vineland, N. J. Lasting-machine. No. 1,037,018; Aug. 27; Gaz. vol. 181; p. 990.
Keighley, Charles P., Vineland, N. J. Shoe ornament. No. 1,029,371; June 11; Sp. p. 2837; Gaz. vol. 179; p. 477.
Keighley, Charles P., Vineland, N. J. Shoe ornament. No. 1,046,306; Dec. 3; Gaz. vol. 185; p. 177.
Keighley Company, The. (See Keighley, Charles, assignor.)
Keighley Company, The. (See Keighley, William B., assignor.)
Keighley, William B., Vineland, N. J. Burnishing-machine. No. 1,031,674; July 2; Gaz. vol. 180; p. 286.
Keighley, William B., Vineland, N. J. Inseam-trimmer. No. 1,031,675; July 2; Gaz. vol. 180; p. 287.
Keighley, William B., Vineland, N. J. Combined band-knife inseam-trimming machine and welt-pounding device. No. 1,032,219; July 9; Gaz. vol. 180; p. 514.
Keighley, William B., Vineland, N. J. Tack-pulling machine. No. 1,036,269; Aug. 20; Gaz. vol. 181; p. 705.
Keighley, William B., assignor to The Keighley Company, Vineland, N. J. Sole-tempering machine. No. 1,017,556; Feb. 13; Sp. p. 2909; Gaz. vol. 175; p. 491.
Keighley, William B., assignor to The Keighley Company, Vineland, N. J. Feeding device for inseam-trimmers. No. 1,020,910; Mar. 19; Sp. p. 4039; Gaz. vol. 176; p. 705.
Keil, Henry F., Bronxville, N. Y. Bracket-clamp. No. 1,035,967; Aug. 20; Gaz. vol. 181; p. 597.
Keilholtz, Pierre O., and F. E. Ricketts, Baltimore, Md. Voltage compensating and regulating means. No. 1,041,482; Oct. 15; Gaz. vol. 183; p. 677.
Keily, James E., Canandaigua, N. Y. Scrubbing-board. No. 1,013,661; Jan. 2; Sp. p. 1262; Gaz. vol. 174; p. 198.
Keily, James E., Rochester, N. Y. Handle. No. 1,019,799; Mar. 12; Sp. p. 1711; Gaz. vol. 176; p. 290.
Keim, Jacob E., Boswell, Pa. Railway cross-tie. No. 1,033,707; July 23; Gaz. vol. 180; p. 1096.
Keim, Simon S. (See Campbell, Charles E., assignor.)
Keiper, Frank, Rochester, assignor to Empire Voting Machine Co., Rochester and Jamestown, N. Y. Interlocking mechanism. No. 1,031,184; July 2; Gaz. vol. 180; p. 119.
Keirle, Albert, Bunker Hill, Ill. Silo. No. 1,026,516; May 14; Sp. p. 3147; Gaz. vol. 178; p. 519.
Keiser, George M., Cass township, Schuylkill county, Pa. Valve. No. 1,033,325; July 23; Gaz. vol. 180; p. 973.
Keitel, Günther. (See Rice, Marie R., assignor.)
Keiter, William T., Philadelphia, Pa. Hood or awning. No. 1,048,544; Dec. 31; Gaz. vol. 185; p. 1085.
Keith, Darius S., Whitman, Mass. Adjustable trellis for vines. No. 1,048,079; Dec. 24; Gaz. vol. 185; p. 889.
Keith, George. (See Keith, James and G.)
Keith, George L. (See Eaton and Keith.)
Keith, Henry M., Eldorado, Ill. Fan-driving mechanism. No. 1,023,655; Apr. 16; Sp. p. 4031; Gaz. vol. 177; p. 707.
Keith, Irving L. (See Brittain, George E., assignor.)
Keith, Irving L., Haverhill, Mass. Box-toe stiffener. No. 1,046,194; Dec. 3; Gaz. vol. 185; p. 136.
Keith, James, London, England. Centrifugal fan. No. 1,015,274; Jan. 16; Sp. p. 4806; Gaz. vol. 174; p. 809.
Keith, James, London, England. Ventilator. No. 1,028,221; June 4; Sp. p. 360; Gaz. vol. 179; p. 50.
Keith, James and G., London, England. Gas-lamp suspension. No. 1,035,881; Aug. 20; Gaz. vol. 181; p. 569.
Keith, James and G., London, England. Gas-lamp. No. 1,042,798; Oct. 29; Gaz. vol. 183; p. 1189.
Keith, John I. (See Long and Keith.)
Keith, Simeon C., Jr., Somerville, Mass. Bubbling drinking-fountain. No. 1,019,162; Mar. 5; Sp. p. 346; Gaz. vol. 176; p. 54.

Alphabetical list of patentees—Continued.

Keith, Simeon C., Jr., Somerville, assignor to H. J. Keith Company, Boston, Mass. Belt-guiding mechanism. No. 1,023,253; Apr. 16; Sp. p. 3229; Gaz. vol. 177; p. 578.
Keith, Sipron C. (See Arthur, Winfield S., assignor.)
Keith, Thadeus, New York, N. Y. Burial apparatus. No. 1,028,735; June 4; Sp. p. 1436; Gaz. vol. 179; p. 223.
Keith, Thomas K., Boston, Mass., assignor, by mesne assignments, to United Shoe Machinery Company, Paterson, N. J. Lasting-machine. No. 1,030,820; June 25; Sp. p. 6309; Gaz. vol. 179; p. 1060.
Keith, Thomas K., Boston, Mass., assignor to United Shoe Machinery Company, Paterson, N. J., and Boston, Mass. Lasting-machine. No. 1,030,822; June 25; Sp. p. 6322; Gaz. vol. 179; p. 1061.
Keith, Thomas K., deceased, Boston; H. C. Hudson, Swampscott, Mass., administrator, assignor to United Shoe Machinery Company, Paterson, N. J. Tacking mechanism. No. 1,030,819; June 25; Sp. p. 6290; Gaz. vol. 179; p. 1060.
Keith, Thomas K., deceased, Boston; H. C. Hudson, Swampscott, Mass., administrator, assignor to United Shoe Machinery Company, Paterson, N. J. Lasting-machine. No. 1,030,821; June 25; Sp. p. 6316; Gaz. vol. 179; p. 1061.
Keith, Thomas K., deceased, Boston; H. C. Hudson, Swampscott, Mass., administrator, assignor to United Shoe Machinery Company, Paterson, N. J. Shoe-support. No. 1,030,823; June 25; Sp. p. 6350; Gaz. vol. 179; p. 1062.
Keizer, Lewis M. (See Coffee, Robert W., assignor.)
Kejr, Miles, Dorrance, Kans. Combined threshing, harvesting, and bundling apparatus. No. 1,027,484; May 28; Sp. p. 5263; Gaz. vol. 178; p. 923.
Kelber, Armin, Strassburg, Germany. Toy. No. 1,023,472; Apr. 16; Sp. p. 3659; Gaz. vol. 177; p. 649.
Kelchner, Stewart S., Easton, Pa. Water-motor. No. 1,042,449; Oct. 29; Gaz. vol. 183; p. 1066.
Kelder, Nial W., Walden, N. Y. Emery grinding-machine. No. 1,046,801; Dec. 10; Gaz. vol. 185; p. 390.
Kelker, John W. (See Buchanan and Kelker.)
Kell, Otto, Des Moines, Iowa. Fish-scaling device. No. 1,028,736; June 4; Sp. p. 1438; Gaz. vol. 179; p. 223.
Kellaher, Dan. (See Over, Ernest, assignor.)
Kellar, George E., assignor to Kellar-Thomason Manufacturing Company, Covina, Cal. Irrigating connection. No. 1,016,159; Jan. 30; Sp. p. 6715; Gaz. vol. 174; p. 1167.
Kellar-Thomason Manufacturing Company. (See Kellar, George E., assignor.)
Kellaway, Newman W., assignor to Rapid Systems Company of California, Los Angeles, Cal. Adjustable hinge. No. 1,048,545; Dec. 31; Gaz. vol. 185; p. 1086.
Kelleher, Jeremiah J., and C. D. Porter, Philadelphia, Pa. Car-roof construction. No. 1,022,091; Apr. 2; Sp. p. 719; Gaz. vol. 177; p. 115.
Kelleher, Jeremiah J., Philadelphia, and C. D. Porter, Wilkinsburg, Pa. Car-roof construction. No. 1,047,949; Dec. 24; Gaz. vol. 185; p. 847.
Keller, Allen, Chicago, Ill. Carrier. No. 1,028,469; June 4; Sp. p. 895; Gaz. vol. 179; p. 135.
Keller, Charles F., Lancaster, Ohio. Edge-setting iron for shoes. No. 1,014,006; Jan. 9; Sp. p. 2050; Gaz. vol. 174; p. 346.
Keller, Charles L., assignor to Scherzer Rolling Lift Bridge Company, Chicago, Ill. Means for operating bascule-bridges. No. 1,047,950; Dec. 24; Gaz. vol. 185; p. 847.
Keller, David L., *et al.* (See Kenner, William E., assignor.)
Keller, George S. (See Theisen and Keller.)
Keller, George W., and C. and A. Brassington, Aristes, Pa. Jig. No. 1,014,308; Jan. 9; Sp. p. 2699; Gaz. vol. 174; p. 450.
Keller, George W., C. and A. Brassington, and H. D. Kostenbauder, Aristes, Pa. Coal-washing jig. No. 1,041,800; Oct. 22; Gaz. vol. 183; p. 820.
Keller, Gustav A., New York, N. Y., assignor to Irving Iron Works. Reticulated wrought-iron grating. No. 1,045,795; Nov. 26; Gaz. vol. 184; p. 1049.
Keller, Hans. (See Bosch and Keller.)
Keller, Harry, Philadelphia, Pa. Pneumatic hammer. No. 1,035,358; Aug. 13; Gaz. vol. 181; p. 355.
Keller, Henry C., Bondville, Ill. Spring-wheel. No. 1,016,693; Feb. 6; Sp. p. 1047; Gaz. vol. 175; p. 160.
Keller, Huldreich, Berlin, Germany, assignor to General Electric Company. Condenser system. No. 1,013,178; Jan. 2; Sp. p. 176; Gaz. vol. 174; p. 31.
Keller, John H., Van Buren township, Keokuk county, Iowa. Road-machine. No. 1,032,684; July 16; Gaz. vol. 180; p. 718.
Keller, Karl, assignor to Firm of A. Saurer, Arbon, Switzerland. Embroidering-machine. No. 1,031,936; July 9; Gaz. vol. 180; p. 419.
Keller Manufacturing Company. (See Wiedemann and Templin, assignors.)
Keller Mechanical Engraving Company. (See Warman, William A., assignor.)
Keller, Peter, and P. Seiler, assignors to H. Sander, Chicago, Ill. Gas-burner tip. No. 1,015,232; Jan. 16; Sp. p. 4714; Gaz. vol. 174; p. 794.
Keller-Sibley Electric Drill Company. (See Keller and Sibley, assignors.)
Keller, Vernet H., Hatfield, Mass. Terminal clip. No. 1,025,573; May 7; Sp. p. 1051; Gaz. vol. 178; p. 162.
Keller, Wilhelm, assignor to Hartmann and Braun, Aktiengeselischaft, Frankfort-on-the-Main, Germany. Manufacturing electrical-instrument coils. No. 1,041,293; Oct. 15; Gaz. vol. 183; p. 615.
Keller, William B. (See Caldwell, Benjamin B., assignor.)
Keller, William H., Philadelphia, Pa. Vacuum-curry-comb. No. 1,015,894; Jan. 30; Sp. p. 6167; Gaz. vol. 174; p. 1075.
Keller, William H., and S. D. Sibley, Connellsville, Pa., assignors to Keller-Sibley Electric Drill Company. Reciprocating motor. No. 1,043,320; Nov. 5; Gaz. vol. 184; p. 99.
Keller, William H., and S. D. Sibley, Eccles, W. Va., assignors to Keller-Sibley Electric Drill Company. Reciprocating motor. No. 1,043,573; Nov. 5; Gaz. vol. 184; p. 189.
Keller, William L., Kearney, Nebr. Staple-anchor. No. 1,013,398; Jan. 2; Sp. p. 683; Gaz. vol. 174; p. 108.
Keller, William L., Kearney, Nebr. Concrete-mixer. No. 1,015,687; Jan. 23; Sp. p. 5741; Gaz. vol. 174; p. 978.
Kellerman, Henry, Mayfield, Pa. Cop-tube. No. 1,029,065; June 11; Sp. p. 2162; Gaz. vol. 179; p. 372.
Kellerman, James M. (See Langton and Kellerman.)
Kellett, Thomas N. (See O'Neil, Schneider, and Kellett.)
Kellett, Thomas N. (See Thompson, Kellett, and Gunn.)
Kelley, Andrew J. (See Boehm, Oscar, assignor.)
Kelley, Charles C., assignor, by mesne assignments, to G. H. Allen, Los Angeles, Cal. Advertising device. No. 1,038,149; Sept. 10; Gaz. vol. 182; p. 358.
Kelley Electric Machine Company. (See Kelley, George L., assignor.)
Kelley, Eugene E., Greensburg, Pa. Noiseless pivot-hinge. No. 1,026,750; May 21; Sp. p. 3645; Gaz. vol. 178; p. 634.
Kelley, Frederick H. (See Geisenhöner, Henry, assignor.)
Kelley, George H., Gainesville, Fla. Starter for automobile-engines. No. 1,035,091; Aug. 6; Gaz. vol. 181; p. 229.
Kelley, George J., Attleboro, Mass. Vaginal syringe. No. 1,015,895; Jan. 30; Sp. p. 6168; Gaz. vol. 174; p. 1075.
Kelley, George J., Attleboro, Mass. Vaginal syringe. No. 1,029,689; June 18; Sp. p. 3513; Gaz. vol. 179; p. 623.
Kelley, George J., Attleboro, Mass. Atomizer. No. 1,042,685; Oct. 29; Gaz. vol. 183; p. 1149.
Kelley, George L., assignor, by mesne assignments, to Kelley Electric Machine Company, Buffalo, N. Y. Guide device for woodworking or routing machines. No. 1,042,120; Oct. 22; Gaz. vol. 183; p. 927.
Kelley, George L., assignor, by mesne assignments, to Kelley Electric Machine Company, Buffalo, N. Y. Woodworking or routing machine. No. 1,046,075; Dec. 3; Gaz. vol. 185; p. 94.
Kelley, Green B., Las Cruces, N. Mex. Well-drilling machine. No. 1,023,207; Apr. 16; Sp. p. 3144; Gaz. vol. 177; p. 563.
Kelley, Henry A., Kansas City, Mo. Oil-burner. No. 1,036,638; Aug. 27; Gaz. vol. 181; p. 863.
Kelley, Harry H., Atlanta, Ga. Fluid-pressure regulator. No. 1,024,992; Apr. 30; Sp. p. 6987; Gaz. vol. 177; p. 1227.
Kelley, John L., Lawrence, Mass. Trip-hammer. No. 1,035,968; Aug. 20; Gaz. vol. 181; p. 597.
Kelley, John R., Covington, Ky. Electrolytic interrupter. No. 1,020,698; Mar. 19; Sp. p. 3611; Gaz. vol. 176; p. 634.
Kelley, John W., Ithaca, N. Y. Lens-mounting for eyeglasses. No. 1,036,639; Aug. 27; Gaz. vol. 181; p. 863.
Kelley, John W., assignor of one-half to D. R. Miller and W. Panscher, Chicago, Ill. Guard-rail. No. 1,041,094; Oct. 15; Gaz. vol. 183; p. 547.
Kelley, Samuel D., Boston, Mass. Store-front construction. No. 1,021,871; Apr. 2; Sp. p. 261; Gaz. vol. 177; p. 42.
Kelley, Thomas. (See Beeman and Kelley.)
Kellner, Gustav A. H., assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Lens. No. 1,021,104; Mar. 26; Sp. p. 4442; Gaz. vol. 176; p. 822.
Kellogg, Daniel P., *et al.* (See Neville, Harry, assignor.)
Kellogg, Edwin F., *et al.* (See Curran, Harry L., assignor.)
Kellogg, George H., Syracuse, N. Y. Aeroplane. No. 1,035,794; Aug. 13; Gaz. vol. 181; p. 500.
Kellogg, George H., Syracuse, N. Y. Balancing device for airships. No. 1,035,795; Aug. 13; Gaz. vol. 181; p. 500.
Kellogg, George W., Rochester, N. Y. Pressure-gage. No. 1,043,439; Nov. 5; Gaz. vol. 184; p. 140.
Kellogg, George W., assignor to Kellogg Manufacturing Company, Rochester, N. Y. Pressure-gage. No. 1,038,385; Sept. 10; Gaz. vol. 182; p. 438.
Kellogg, James L., New York, N. Y. Surprise and alarm device. No. 1,041,095; Oct. 15; Gaz. vol. 183; p. 547.
Kellogg, James M., Muscatine, Iowa. Trap. No. 1,020,356; Mar. 12; Sp. p. 2845; Gaz. vol. 176; p. 482.
Kellogg, John F., Guthrie, Okla. Syringe. No. 1,014,228; Jan. 9; Sp. p. 2533; Gaz. vol. 174; p. 423.
Kellogg, John K., Oakland, Cal. Glove-former. No. 1,038,596; Sept. 17; Gaz. vol. 182; p. 546.

Alphabetical list of patentees—Continued.

Kellogg, John L., Denver, Colo. Photography. No. 1,025,095; Apr. 30; Sp. p. 7196; Gaz. vol. 177; p. 1260.
Kellogg, Luke L., Fredonia, N. Y. Lock. No. 1,038,597; Sept. 17; Gaz. vol. 182; p. 547.
Kellogg Manufacturing Company. (See Kellogg, George W., assignor.)
Kellogg, Maurice E., Milan, Kans. Store-fixture. No. 1,020,427; Mar. 19; Sp. p. 3009; Gaz. vol. 176; p. 545.
Kellogg, Ray E., Needles, Cal. Automatic propeller. No. 1,036,122; Aug. 20; Gaz. vol. 181; p. 651.
Kellogg Switchboard and Supply Company. (See Bradbury, Clifford C., assignor.)
Kellogg Switchboard and Supply Company. (See Davis, Fred M., assignor.)
Kellogg Switchboard & Supply Company. (See Dean, William W., assignor.)
Kellogg Switchboard & Supply Company. (See Kaisling, William, assignor.)
Kellogg Switchboard & Supply Company. (See Libby, Albion D. T., assignor.)
Kellogg Switchboard and Supply Company. (See Smith, Charles H., assignor.)
Kellogg Switchboard and Supply Company. (See Webster, Harry G., assignor.)
Kellogg Switchboard and Supply Company. (See Weiss, Alfred H., assignor.)
Kellogg Switchboard and Supply Company. (See Winston, Charles S., assignor.)
Kellogg Toasted Corn Flake Company. (See Byrne, John F., assignor.)
Kellogg, Walter B., Superior, Wis. Cap and fuse holder for dynamite cartridges. No. 1,021,934; Apr. 2; Sp. p. 374; Gaz. vol. 177; p. 62.
Kellogg, William L., Indianapolis, Ind. Street-sweeper. No. 1,035,598; Aug. 13; Gaz. vol. 181; p. 435.
Kellom, Charles F., Philadelphia, Pa. Spout for cans. No. 1,022,195; Apr. 2; Sp. p. 939; Gaz. vol. 177; p. 150.
Kells, Charles E., Jr., New Orleans, La. Sanitary attachment for faucets. No. 1,020,207; Mar. 12; Sp. p. 2568; Gaz. vol. 176; p. 435.
Kells, Charles E., Jr., New Orleans, La. Lubricator No 1,037,923; Sept. 10; Gaz. vol. 182; p. 284.
Kells, Charles E., Jr., New Orleans, La. Automobile-jack No. 1,037,924; Sept. 10; Gaz. vol. 182; p. 284.
Kells, Charles E., Jr., New Orleans, La. Sanitary attachment for faucets. No. 1,043,440; Nov. 5; Gaz. vol. 184; p. 141.
Kellum, Elmo F., Don Luis, Ariz. Mining apparatus. No. 1,020,649; Mar. 19; Sp. p. 3496; Gaz. vol. 176; p. 617.
Kellum, Orlando E., Los Angeles, Cal. Talking moving-picture mechanism. No. 1,027,658; May 28; Sp. p. 5620; Gaz. vol. 178; p. 981.
Kellum, Orlando E., Los Angeles, Cal. Valve mechanism for automobile-engines and the like. No. 1,038,598; Sept. 17; Gaz. vol. 182; p. 547.
Kellum, Orlando E., assignor to National Street and Station Indicator Company, Los Angeles, Cal. Indicator-actuating mechanism. No. 1,022,742; Apr. 9; Sp. p. 2134; Gaz. vol. 177; p. 366.
Kellum, Orlando E., assignor to National Street and Station Indicator Company, Los Angeles, Cal. Exhibit device. No. 1,022,743; Apr. 9; Sp. p. 2136; Gaz. vol. 177; p. 366.
Kellum, Orlando E., assignor to National Street and Station Indicator Company, Los Angeles, Cal. Exhibit device. No. 1,022,744; Apr. 9; Sp. p. 2138; Gaz. vol. 177; p. 367.
Kelly, Charles. (See Elliott and Kelly.)
Kelly, David J., Salt Lake City, Utah. Slimes-filtering apparatus. No. 1,015,960; Jan. 30; Sp. p. 6305; Gaz. vol. 174; p. 1097.
Kelly, David J., Salt Lake City, Utah. Filtering apparatus. No. 1,015,961; Jan. 30; Sp. p. 6311; Gaz. vol. 174; p. 1098.
Kelly, David J., assignor to Kelly Filter Press Company, Salt Lake City, Utah. Filtering apparatus. No. 1,024,082; Apr. 23; Sp. p. 4949; Gaz. vol. 177; p. 877.
Kelly, Edward F., Cairo, Ill. Smoke-ring blower. No. 1,013,296; Jan. 2; Sp. p. 467; Gaz. vol. 174; p. 73.
Kelly, Edwin W., assignor to Roentgen Manufacturing Company, Philadelphia, Pa. Automatic plate-changing device. No. 1,015,027; Jan. 16; Sp. p. 4318; Gaz. vol. 174; p. 726.
Kelly, Edwin W., assignor to Roentgen Manufacturing Company, Philadelphia, Pa. X-ray operating-table. No. 1,015,187; Jan. 16; Sp. p. 4618; Gaz. vol. 174; p. 779.
Kelly, Elmer, Uniontown, Pa. Polishing compound. No. 1,015,688; Jan. 23; Sp. p. 5745; Gaz. vol. 174; p. 978.
Kelly, Eugene H., deceased, Buffalo, N. Y.; W. D. Phelps, temporary administrator. Airship. No. 1,044,466; Nov. 12; Gaz. vol. 184; p. 525.
Kelly Filter Press Company. (See Kelly, David J., assignor.)
Kelly, George B., Jamaica Plain, Mass. Machine for making perforated music-sheets. No. 1,021,049; Mar. 26; Sp. p. 4344; Gaz. vol. 176; p. 806.
Kelly, George B., Jamaica Plain, Mass. Combined player piano and organ. No. 1,042,686; Oct. 29; Gaz. vol. 183; p. 1150.
Kelly, Grace B., Chicago, Ill. Receptacle for collars or cuffs. No. 1,048,175; Dec. 24; Gaz. vol. 185; p. 923.
Kelly, James, Tula, Mich. Door-securing device. No. 1,038,897; Sept. 17; Gaz. vol. 182; p. 652.
Kelly, John, Chicago, Ill. Internal-combustion engine. No. 1,045,560; Nov. 26; Gaz. vol. 184; p. 967.
Kelly, John E., Philadelphia, Pa. Sectional interlocking bracket. No. 1,016,694; Feb. 6; Sp. p. 1049; Gaz. vol. 175; p. 160.
Kelly, John F., Pittsfield, Mass. Machine for perforating music-sheets. No. 1,028,361; June 4; Sp. p. 655; Gaz. vol. 179; p. 98.
Kelly, John F., Pittsfield, Mass. Circuit-controlling apparatus. No. 1,041,294; Oct. 15; Gaz. vol. 183; p. 615.
Kelly, John F., Trenton, N. J. Soil-pipe connection for water-closet bowls. No. 1,044,056; Nov. 12; Gaz. vol. 184; p. 386.
Kelly, John R., Charleston, S. C. Spoke-puller. No. 1,019,656; Mar. 5; Sp. p. 1429; Gaz. vol. 176; p. 220.
Kelly, Michael, Buffalo, N. Y. Steam-boiler. No. 1,018,425; Feb. 27; Sp. p. 4852; Gaz. vol. 175; p. 859.
Kelly, Michael, Buffalo, N. Y. Steam-boiler. No. 1,041,295; Oct. 15; Gaz. vol. 183; p. 615.
Kelly, Michael, Buffalo, N. Y. Heater. No. 1,045,561; Nov. 26; Gaz. vol. 184; p. 968.
Kelly, Orson N., Dallas, Tex. Railway-tie. No. 1,034,623; Aug. 6; Gaz. vol. 181; p. 73.
Kelly, Richard D., The Dalles, Oreg. Water-wheel. No. 1,017,002; Feb. 13; Sp. p. 1719; Gaz. vol. 175; p. 300.
Kelly, Sherman L., South Bend, Ind. Magneto. No. 1,015,623; Jan. 23; Sp. p. 5585; Gaz. vol. 174; p. 957.
Kelly, Thomas F., Clinton, Iowa. Combined bed and couch. No. 1,014,484; Jan. 9; Sp. p. 3070; Gaz. vol. 174; p. 510.
Kelly, Thomas F., Pawtucket, R. I. Device for automatically holding bolt-blanks. No. 1,046,802; Dec. 10; Gaz. vol. 185; p. 391.
Kelly, Thomas G., Clifton, Oreg. Haul-back carriage for reciprocating scrapers. No. 1,031,342; July 2; Gaz. vol. 180; p. 174.
Kelly, Thomas J., Denver, Colo. Tire-lock. No. 1,041,632; Oct. 15; Gaz. vol. 183; p. 724.
Kelly, Timothy J., assignor to Brighton Mills, Passaic, N. J. Stop-motion for twisting-machines and the like. No. 1,033,804; July 30; Gaz. vol. 180; p. 1155.
Kelly, William, Detroit, Mich. Transmission-gear. No. 1,039,956; Oct. 1; Gaz. vol. 183; p. 95.
Kelly, William, Lowell, Mass. Mixer for internal-combustion engines. No. 1,041,096; Oct. 15; Gaz. vol. 183; p. 548.
Kelly, William G., *et al.* (See Conrad, Mark, assignor.)
Kelly, William G. (See Conrad and Kelly.)
Kelly, William H. (See Tainter and Kelly.)
Kelly, William H., Waynesboro, Va. Sash-holder. No. 1,019,051; Mar. 5; Sp. p. 86; Gaz. vol. 176; p. 17.
Kelly, William H., Los Angeles, Cal. Treatment of metals. No. 1,019,965; Mar. 12; Sp. p. 2045; Gaz. vol. 176; p. 354.
Kelly, William H., Los Angeles, Cal. Reducing ores and metals. No. 1,024,136; Apr. 23; Sp. p. 5096; Gaz. vol. 177; p. 896.
Kelly, William H., Los Angeles, Cal. Purification of metals. No. 1,041,801; Oct. 22; Gaz. vol. 183; p. 821.
Kelly, William J., Clinton, Iowa. Veneer-taping machine. No. 1,022,092; Apr. 2; Sp. p. 721; Gaz. vol. 177; p. 115.
Kelly, William M., New York, N. Y. Printer's type. No. 1,016,224; Jan. 30; Sp. p. 6834; Gaz. vol. 174; p. 1188.
Kelsea, Clarence H., Lynn, Mass. Clock-bank. No. 1,028,222; June 4; Sp. p. 362; Gaz. vol. 179; p. 50.
Kelsey, Byron J. (See Purviance, Benjamin F., assignor.)
Kelsey, Earl H., Bawlf, Alberta, Canada. Flying-machine. No. 1,045,152; Nov. 26; Gaz. vol. 184; p. 823.
Kelsey, Mark, Los Angeles, Cal. Producing patterns for castings, &c. No. 1,037,489; Sept. 3; Gaz. vol. 182; p. 106.
Kelsey, Orlando, Blackwood, N. J. Air-vent for steam-radiators. No. 1,014,229; Jan. 9; Sp. p. 2535; Gaz. vol. 174; p. 423.
Kelsey, Weston M., Depue, Ill., assignor to New Jersey Zinc Company, New York, N. Y. Regenerating contact mass. No. 1,047,236; Dec. 17; Gaz. vol. 185; p. 568.
Kelso, David P., Slater, Wash. Sedan. No. 1,020,987; Mar. 26; Sp. p. 4223; Gaz. vol. 176; p. 784.
Kelso, Joseph. (See Kelso, William and J.)
Kelso, Joseph, assignor to McConway & Torley Company, Pittsburgh, Pa. Knuckle-pin retainer. No. 1,020,952; Mar. 19; Sp. p. 4131; Gaz. vol. 176; p. 720.
Kelso, Joseph, assignor to McConway & Torley Company, Pittsburgh, Pa. Knuckle-pin retainer for car-couplings. No. 1,021,464; Mar. 26; Sp. p. 5254; Gaz. vol. 176; p. 947.
Kelso, Joseph, assignor to McConway & Torley Company, Pittsburgh, Pa. Car-coupling. No. 1,021,465; Mar. 26; Sp. p. 5255; Gaz. vol. 176; p. 948.
Kelso, Joseph, assignor to The McConway & Torley Company, Pittsburgh, Pa. Car-coupling. No. 1,037,490; Sept. 3; Gaz. vol. 182; p. 107.
Kelso, Joseph and W., assignors to The McConway & Torley Company, Pittsburgh, Pa. Uncoupling mechanism. No. 1,032,066; July 9; Gaz. vol. 180; p. 462.
Kelso, Leslie E. A., Provo, Utah. Electric heater. No. 1,017,874; Feb. 20; Sp. p. 3643; Gaz. vol. 175; p. 636.

Alphabetical list of patentees—Continued.

Kelso, William. (See Kelso, Joseph and W.)
Kelso, William, assignor to McConway & Torley Company, Pittsburgh, Pa. Uncoupling device. No. 1,021,411; Mar. 26; Sp. p. 5133; Gaz. vol. 176; p. 929.
Kelso, William, assignor to McConway & Torley Company, Pittsburgh, Pa. Car-coupling. No. 1,021,412; Mar. 26; Sp. p. 5136; Gaz. vol. 176; p. 929.
Kelso, William and J., assignors to McConway & Torley Company, Pittsburgh, Pa. Car-coupling. No. 1,024,083; Apr. 23; Sp. p. 4952; Gaz. vol. 177; p. 877.
Kelty, Charles, and D. P. Joralemon, Elmira, N. Y. Sewer-trap. No. 1,018,569; Feb. 27; Sp. p. 5233; Gaz. vol. 175; p. 909.
Kemler, Charles, Chicago, Ill. Photographic-print-drying frame. No. 1,032,839; July 16; Gaz. vol. 180; p. 771.
Kemmler, John A., assignor of one-half to O. Klopfer, Philadelphia, Pa. Bedstead. No. 1,018,195; Feb. 20; Sp. p. 4363; Gaz. vol. 175; p. 749.
Kemp, Clarence M. (See Van Horn, William H., assignor.)
Kemp, George E., Alpena, Mich. Stovepipe-lock. No. 1,043,773; Nov. 5; Gaz. vol. 184; p. 255.
Kemp, George W., Lyon Station, Pa. Gate. No. 1,028,028; May 28; Sp. p. 6433; Gaz. vol. 178; p. 1104.
Kemp, Joseph S., Newark Valley, N. Y. Hot-air furnace. No. 1,035,599; Aug. 13; Gaz. vol. 181; p. 436.
Kemp, William W., and W. H. Van Horn, assignors to C. M. Kemp Manufacturing Co., Baltimore, Md. Gas-burner. No. 1,033,416; July 23; Gaz. vol. 180; p. 1002.
Kempf, John W., Goehner, Nebr. Core for making concrete culverts. No. 1,023,429; Apr. 16; Sp. p. 3576; Gaz. vol. 177; p. 636.
Kempf, John W., Goehner, Nebr. Core for making concrete culverts. No. 1,044,394; Nov. 12; Gaz. vol. 184; p. 501.
Kempien, August J., St. Paul, Minn. Electric lock lamp-socket. No. 1,032,362; July 9; Gaz. vol. 180; p. 564.
Kempshall, Eleazer, Garden City, N. Y. Heel for boots and shoes. No. 1,027,255; May 21; Sp. p. 4795; Gaz. vol. 178; p. 808.
Kempster, Daniel E., Boston, Mass. Antifriction-bearing. No. 1,018,324; Feb. 20; Sp. p. 4614; Gaz. vol. 175; p. 792.
Kempter, Philip, assignor to Geuder, Paeschke & Frey Co., Milwaukee, Wis. Guard for presses and the like. No. 1,049,102; Dec. 31; Gaz. vol. 185; p. 1279.
Kempton, Wallace E., Coquille, Oreg. Logging-chain hook. No. 1,039,957; Oct. 1; Gaz. vol. 183; p. 95.
Kemter, Paul M., and A. W. Hentschel, West New York, N. J. Wheel-tire. No. 1,017,764; Feb. 20; Sp. p. 3340; Gaz. vol. 175; p. 598.
Kenady, Marvin W., Portland, Oreg. Shaving-brush. No. 1,044,395; Nov. 12; Gaz. vol. 184; p. 501.
Kendal, Arthur B., Wellington, and J. A. Collinson, Hadley, England. Apparatus for scaling and cleaning steam-boiler, superheater, and like tubes. No. 1,028,075; May 28; Sp. p. 6555; Gaz. vol. 178; p. 1118.
Kendall, Edward C., South Norwalk, Conn. Apparatus for separating liquids of different gravities. No. 1,036,640; Aug. 27; Gaz. vol. 181; p. 864.
Kendall, George H., New York, N. Y. Plate-printing machine. No. 1,040,691; Oct. 8; Gaz. vol. 183; p. 381.
Kendall. James A., Streatham, London, assignor of one-half to J. W. Swan, Overhill, England. Manufacturing alkali-metal cyanids. No. 1,037,019; Aug. 27; Gaz. vol. 181; p. 990.
Kendall, William F., assignor to Recometre Company of America, New York, N. Y. Driving mechanism for speed or distance indicators. No. 1,042,687; Oct. 29; Gaz. vol. 183; p. 1150.
Kendall, William G., and J. T. Stapleton, Newark, N. J. Powder or shaker receptacle. No. 1,046,803; Dec. 10; Gaz. vol. 185; p. 391.
Kender, Joseph A. (See Baker and Kender.)
Kendrick, Ada C., Williamsburg, Kans. Type-writer. No. 1,020,145; Mar. 12; Sp. p. 2418; Gaz. vol. 176; p. 413.
Kendrick & Davis Company. (See Williams and Myrick, assignors.)
Kendrick, John W., Chicago, Ill. Tie-plate. No. 1,013,179; Jan. 2; Sp. p. 178; Gaz. vol. 174; p. 31.
Kendrick, John W., Chicago, Ill. Railway-tie plate. No. 1,015,325; Jan. 23; Sp. p. 4938; Gaz. vol. 174; p. 854.
Kendrick, Levi J., and J. G. Tunnicliffe, Berkeley, Cal. Amalgamating system. No. 1,013,496; Jan. 2; Sp. p. 893; Gaz. vol. 174; p. 142.
Kendrick, Robert C., Tupelo, Miss. Framing-tool. No. 1,043,605; Nov. 5; Gaz. vol. 184; p. 199.
Keneaster, George W., Gage, Okla. Wheel-bearing for vehicles. No. 1,029,690; June 18; Sp. p. 3514; Gaz. vol. 179; p. 623.
Kenefick, James, Chicago, Ill. Safety device for aeroplanes. No. 1,025,629; May 7; Sp. p. 1174; Gaz. vol. 178; p. 181.
Kenely, William J., Elizabeth, N. J. Stovepipe-hood. No. 1,047,951; Dec. 24; Gaz. vol. 185; p. 848.
Kenerson, William H., Providence, R. I. Hydrostatic weighing-machine. No. 1,023,154; Apr. 16; Sp. p. 3033; Gaz. vol. 177; p. 544.
Kenison, Arthur E. (See Thompson, William B., assignor.)
Kenitz, Otto, and G. Debrowsky, Passaic, N. J. Curtain-bracket. No. 1,022,319; Apr. 2; Sp. p. 1176; Gaz. vol. 177; p. 189.
Kennealy, Edmond M., *et al.* (See Richardson, William A., assignor.)
Kennedy, Carlton L., South Braintree, assignor to The Holtzer-Cabot Electric Company, Brookline, Mass. Automatic switch. No. 1,018,196; Feb. 20; Sp. p. 4365; Gaz. vol. 175; p. 749.
Kennedy, Cecil J., Chicago, Ill. Syrup container and deliverer. No. 1,046,076; Dec. 3; Gaz. vol. 185; p. 95.
Kennedy, Charles L., Winnipeg, Canada. Combined vehicle-hub and shock-absorber. No. 1,041,097; Oct. 15; Gaz. vol. 183; p. 548.
Kennedy, Emi H., Oakland, Cal. Combination bed and settee. No. 1,047,073; Dec. 10; Gaz. vol. 185; p. 479.
Kennedy, Frances X., Philadelphia, Pa. Game apparatus. No. 1,031,273; July 2; Gaz. vol. 180; p. 150.
Kennedy, Frank B., *et al.* (See French, Francis J., assignor.)
Kennedy, Frank M., Utica, assignor of one-half to Maxwell Manufacturing Company, New Hartford, N. Y. Cording attachment for buttonhole-sewing machines. No. 1,025,574; May 7; Sp. p. 1054; Gaz. vol. 178; p. 163.
Kennedy, George C., Waterloo, Iowa. Marble-gun. No. 1,037,262; Sept. 3; Gaz. vol. 182; p. 29.
Kennedy, Guy L., assignor to National Carbonated Liquid Co., San Francisco, Cal. Liquid carbonating and dispensing apparatus. No. 1,029,196; June 11; Sp. p. 2434; Gaz. vol. 179; p. 415.
Kennedy, Harold H., assignor to The Waverley Company, Indianapolis, Ind. Motor-car. No. 1,034,464; Aug. 6; Gaz. vol. 181; p. 21.
Kennedy, Henry A., Natick, assignor to J. Smith, Providence, R. I. Self-threading shuttle for looms. No. 1,037,020; Aug. 27; Gaz. vol. 181; p. 991.
Kennedy, Henry N., Magnolia, Miss. Rail-joint. No. 1,019,966; Mar. 12; Sp. p. 2047; Gaz. vol. 176; p. 354.
Kennedy, James, St. Louis, Mo., assignor to The Dean Electric Company, Elyria, Ohio. Telephone system. No. 1,037,636; Sept. 3; Gaz. vol. 182; p. 154.
Kennedy, James M., and J. O'Hara, Baltimore, Md. Solar water-heater. No. 1,034,465; Aug. 6; Gaz. vol. 181; p. 21.
Kennedy, James S., New York, N. Y. Clock. No. 1,044,534; Nov. 19; Gaz. vol. 184; p. 579.
Kennedy, John, Montreal, Quebec, Canada. Protecting concrete surfaces from damage by frost in tidal waters. No. 1,047,237; Dec. 17; Gaz. vol. 185; p. 569.
Kennedy, John C., Boston, and W. S. Kinsley, Reading, Mass. Gummed-strip applier. No. 1,026,446; May 14; Sp. p. 3001; Gaz. vol. 178; p. 495.
Kennedy, John D., New Kensington, Pa. Toe-protector for shoes. No. 1,030,892; July 2; Gaz. vol. 180; p. 15.
Kennedy, John J. (See Brown and Kennedy.)
Kennedy, John L., Washington, D. C. Wind-shield for automobiles. No. 1,042,925; Oct. 29; Gaz. vol. 183; p. 1232.
Kennedy, Joseph, New York, N. Y. Toggle-nut. No. 1,036,858; Aug. 27; Gaz. vol. 181; p. 937.
Kennedy, Joseph, New York, N. Y. Adjustable suspension-bracket. No. 1,045,153; Nov. 26; Gaz. vol. 184; p. 823.
Kennedy, Joseph, New York, N. Y. Concrete insert. No. 1,045,562; Nov. 26; Gaz. vol. 184; p. 968.
Kennedy, Joseph, New York, N. Y., assignor to The Clements Co. Bolt-anchor. No. 1,025,275; May 7; Sp. p. 359; Gaz. vol. 178; p. 59.
Kennedy, Joseph W., Duquesne, Pa. Rail-joint. No. 1,021,533; Mar. 26; Sp. p. 5394; Gaz. vol. 176; p. 971.
Kennedy, Julian, Pittsburgh, Pa. Blast-furnace-charging apparatus. No. 1,021,534; Mar. 26; Sp. p. 5395; Gaz. vol. 176; p. 971.
Kennedy, Kenneth B. (See Kennedy, Oliver J., and K. B.)
Kennedy, Martin, assignor of one-half to W. Renshaw, Chicago, Ill. Metal-working machine. No. 1,034,466; Aug. 6; Gaz. vol. 181; p. 22.
Kennedy, Matthew H., New Brighton borough, Pa. Flash-light device. No. 1,013,399; Jan. 2; Sp. p. 684; Gaz. vol. 174; p. 108.
Kennedy, Oliver J. and K. B., San Antonio, Tex. Foldable holder for writing-pads. No. 1,025,193; May 7; Sp. p. 182; Gaz. vol. 178; p. 31.
Kennedy, Patrick, Brooklyn, N. Y. Charging storage batteries. No. 1,019,482; Mar. 5; Sp. p. 1100; Gaz. vol. 176; p. 162.
Kennedy, Patrick, New York, N. Y. Electric-current-supply system. No. 1,019,483; Mar. 5; Sp. p. 1108; Gaz. vol. 176; p. 162.
Kennedy, Patrick, New York, N. Y. Electric switch. No. 1,019,484; Mar. 5; Sp. p. 1114; Gaz. vol. 176; p. 163.
Kennedy, Patrick, New York, N. Y. Driving car-lighting dynamos. No. 1,031,651; July 2; Gaz. vol. 180; p. 278.
Kennedy, Patrick, assignor to Consolidated Railway Electric Lighting and Equipment Company, New York, N. Y. Truck construction for dynamo suspension. No. 1,049,103; Dec. 31; Gaz. vol. 185; p. 1280.

Alphabetical list of patentees—Continued.

Kennedy, Patrick, assignor to Consolidated Railway Electric Lighting and Equipment Company, New York, N. Y. Truck construction for dynamo suspension. No. 1,049,104; Dec. 31; Gaz. vol. 185; p. 1280.
Kennedy, Richard, Chicago, Ill. Carbureter. No. 1,019,800; Mar. 12; Sp. p. 1713; Gaz. vol. 176; p. 290.
Kennedy, Robert S., assignor, by mesne assignments, to W. J. Cherry, New York, N. Y. Electric-light fixture. No. 1,047,074; Dec. 10; Gaz. vol. 185; p. 479.
Kennedy, Samuel H., Tunnel Hill, Ga. Gearing. No. 1,041,483; Oct. 15; Gaz. vol. 183; p. 677.
Kennedy, Samuel H., Tunnel Hill, Ga. Vehicle steering mechanism. No. 1,047,238; Dec. 17; Gaz. vol. 185; p. 569.
Kennedy, William F. (See Rennie, Robert J., assignor.)
Kennedy, William H., Naples, Tex. Reel. No. 1,033,906; July 30; Gaz. vol. 180; p. 1192.
Kennedy, William I., Minnewaukan, N. D. Cement block and brick machine. No. 1,030,094; June 18; Sp. p. 4420; Gaz. vol. 179; p. 763.
Kennedy, William W., Wheeling, W. Va., assignor to National Tube Company, Pittsburgh, Pa. Safety-link for draw-bench chains. No. 1,036,641; Aug. 27; Gaz. vol. 181; p. 864.
Kennel, Thomas J., Middletown, Ohio. Wrench. No. 1,031,070; July 2; Gaz. vol. 180; p. 79.
Kennen, Michael F., Newport, Ky. Steam-boiler. No. 1,037,776; Sept. 3; Gaz. vol. 182; p. 200.
Kenner, George A., Herrin, W. H. Michael, and T. J. Burton, Murphysboro, Ill. Pneumatic push-button and pump. No. 1,015,962; Jan. 30; Sp p. 6313; Gaz. vol. 174; p. 1098.
Kenner, William E., assignor of one-sixth to E. H. Mason, one-sixth to D. L. Keller, and one-sixth to A. Findig, Brunswick, Ga. Turpentine-gathering apparatus. No. 1,025,985; May 14; Sp. p. 1947; Gaz. vol. 178; p. 336.
Kenney, Charles H., New London, Conn. Silencer for firearms. No. 1,017,003; Feb. 13; Sp. p. 1720; Gaz. vol. 175; p. 300.
Kenney, Frank, Troutdale, Oreg. Injector vacuum-producer. No. 1,046,603; Dec. 10; Gaz. vol. 185; p. 319.
Kenney, Frederick A., Portland, Oreg. Vehicle loading and unloading means. No. 1,027,612; May 28; Sp. p. 5526; Gaz. vol. 178; p. 967.
Kenney, Frederick A., assignor to The Kenney Truck Company, Portland, Oreg. Load-binder. No. 1,020,650; Mar. 19; Sp. p. 3500; Gaz. vol. 176; p. 618.
Kenney, Grant W., Los Angeles, Cal. Making dress-forms. No. 1,044,662; Nov. 19; Gaz. vol. 184; p. 625.
Kenney, Irving B., Wadena, Minn. Dental gold-cap-crown remover. No. 1,041,098; Oct. 15; Gaz. vol. 183; p. 548.
Kenney, Patrick E., Celina, Ohio. Tire-tool. No. 1,020,288; Mar. 12; Sp. p. 2725; Gaz. vol. 176; p. 462.
Kenney, Thomas F. (See Matear, Kenney, and Woodhouse.)
Kenney Truck Company, The. (See Kenney, Frederick A., assignor.)
Kenney, William J., assignor to The Underfeed Stoker Company of America, Chicago, Ill. Automatic stoker. No. 1,035,359; Aug. 13; Gaz. vol. 181; p. 355.
Kenney, William J., and H. P. Grohn, assignors to The Underfeed Stoker Company of America, Chicago, Ill. Automatic stoker. No. 1,018,976; Feb. 27; Sp. p. 6086; Gaz. vol. 175; p. 1047.
Kennicott, Cass L., Chicago Heights, assignor to The Kennicott Company, Chicago, Ill. Water-softening apparatus. No. 1,017,294; Feb. 13; Sp. p. 2357; Gaz. vol. 175; p. 401.
Kennicott Company, The. (See Kenicott, Cass L., assignor.)
Kennington, William O., Bloomfield, N. J., assignor to The Simms Magneto Co., Inc., New York, N. Y. Coupling for shafting. No. 1,034,249; July 30; Gaz. vol. 180; p. 1313.
Kennington, William O., Bloomfield, N. J., assignor to The Simms Magneto Co., Inc., New York, N. Y. Electrical connector. No. 1,039,542; Sept. 24; Gaz. vol. 182; p. 891.
Kennington, William O., Bloomfield, N. J., assignor to The Simms Magneto Co., Inc., New York, N. Y. High-tension magneto-electric machine. No. 1,039,543; Sept. 24; Gaz. vol. 182; p. 891.
Kenny, Charles H., Winnipeg, and M. McMillan, Gladstone, Manitoba, Canada. Grain-car door. No. 1,018,623; Feb. 27; Sp. p. 5335; Gaz. vol. 175; p. 926.
Kenny, John B., Geneva, N. Y. Basket-handle and cover-fastener. No. 1,019,801; Mar. 12; Sp. p. 1714; Gaz. vol. 176; p. 290.
Kenny, Luther T., Hawarden, Iowa. Molding-machine. No. 1,045,411; Nov. 26; Gaz. vol. 184; p. 913.
Kensit, Henry E. M., Ottawa, Ontario, Canada. Draining-table for sinks. No. 1,046,604; Dec. 10; Gaz. vol. 185; p. 319.
Kent, Arthur A., Philadelphia, Pa. Electric meter. No. 1,019,163; Mar. 5; Sp. p. 349; Gaz. vol. 176; p. 55.
Kent, Arthur A., Philadelphia, Pa. Combined switch and starting device. No. 1,043,110; Nov. 5; Gaz. vol. 184; p. 21.
Kent, Dana S., and W. A. Werckle, Peoria, Ill. Nut-lock. No. 1,038,386; Sept. 10; Gaz. vol. 182; p. 439.
Kent, Flora. (See Kuhlmann, Frederick J. P., assignor.)
Kent, George P., Southend-on-Sea, England. Advertising apparatus. No. 1,016,944; Feb. 13; Sp. p. 1582; Gaz. vol. 175; p. 279.
Kent, George P., and A. R. Mitchell, London, England. Variable-speed gearing. No. 1,044,535; Nov. 19; Gaz. vol. 184; p. 579.
Kent, Perry E., New York, N. Y. Automatic self-cleaning spacer. No. 1,046,468; Dec. 10; Gaz. vol. 185; p. 271.
Kent, Thomas F., assignor of one-half to E. L. Adreon, Jr., St. Louis, Mo. Burner. No. 1,030,824; June 25; Sp. p. 6361; Gaz. vol. 179; p. 1062.
Kent, Victor E., assignor of one-third to R. F. Brewer and one-third to J. A. Martin, Johnson City, Tenn. Cattle-guard. No. 1,016,636; Feb. 6; Sp. p. 936; Gaz. vol. 175; p. 140.
Kent, Victor E., assignor of one-third to J. A. Martin and one-third to R. F. Brewer, Johnson City, Tenn. Cattle-guard. No. 1,046,195; Dec. 3; Gaz. vol. 185; p. 136.
Kent, William C. (See Sarsfield, Timothy B., assignor.)
Kentucky Tobacco Product Company, The. (See Mewborne, Robert G., assignor.)
Kenward, Henry, Jonesboro, Ark. Reel. No. 1,019,802; Mar. 12; Sp. p. 1716; Gaz. vol. 176; p. 300.
Kenway, Percy N., assignor to C. E. Riley, Newton, Mass. Pipe-hanger. No. 1,017,975; Feb. 20; Sp. p. 3886; Gaz. vol. 175; p. 672.
Kenworthy, Amos, Hillsdale, Oreg. Subsoil-breaking attachment. No. 1,031,343; July 2; Gaz. vol. 180; p. 174.
Kenyon, Clyde E. (See Briggs, Frank, assignor.)
Kenyon Electrical Manufacturing Company. (See Jenson, August, assignor.)
Kenyon, Harrie B., Bedford, Ohio. Portable search-light. No. 1,016,887; Feb. 6; Sp. p. 1434; Gaz. vol. 175; p. 223.
Kenyon, Thomas. (See Isherwood, Arthur, assignor.)
Kenyon, William J. C. (See Stolp, Samuel S., assignor.)
Keogh, John W., Chicago, Ill. Excelsior-machine. No. 1,020,100; Mar. 12; Sp. p. 2333; Gaz. vol. 176; p. 399.
Keokuk Hydraulic Tire Setter Company. (See Devero, Charles A., assignor.)
Keough, John T., Los Angeles, Cal. Vibratory dilator. No. 1,032,840; July 16; Gaz. vol. 180; p. 771.
Kepford, David, Early, assignor of one-sixth to W. G. Agar, one-sixth to W. S. Hazard, Jr., and one-sixth to R. L. Sherman, Des Moines, Iowa. Liquid-vending device. No. 1,044,663; Nov. 19; Gaz. vol. 184; p. 625.
Keppel, Jesse E., Jr. (See Keppel, Thomas H., R. F., and J. E., Jr.)
Keppel, John G. (See Bennis and Keppel.)
Keppel, Richard J., Philadelphia, Pa. Lock. No. 1,026,209; May 14; Sp. p. 2482; Gaz. vol. 178; p. 415.
Keppel, Robert F. (See Keppel, Thomas H., R. F., and J. E., Jr.)
Keppel, Thomas H. and R. F., St. Louis, Mo., and J. E. Keppel, Jr., Indianapolis, Ind. Aeroplane. No. 1,026,677; May 21; Sp. p. 3488; Gaz. vol. 178; p. 609.
Keppeler, Gustav, Darmstadt, and A. Spangenberg, Merzig-on-the-Saar, Germany; said Spangenberg assignor to said Keppeler. Treating clay, kaolin, and ceramic masses. No. 1,013,603; Jan. 2; Sp. p. 1107; Gaz. vol. 174; p. 178.
Keppler, Friedrich L., Weissensee, near Berlin, Germany. Transparent concrete structure. No. 1,035,360; Aug. 13; Gaz. vol. 181; p. 356.
Kerber, John A. (See Combs and Kerber.)
Kercher, Arthur J., assignor to Berkeley Electric Cooker Company, Berkeley, Cal. Electrically-heated cooker. No. 1,047,417; Dec. 17; Gaz. vol. 185; p. 632.
Kercher, Arthur J., assignor to Berkeley Electric Cooker Company, Berkeley, Cal. Electrically-heated cooker. No. 1,047,418; Dec. 17; Gaz. vol. 185; p. 632.
Kercher, Arthur J., assignor to Berkeley Electric Cooker Company, Berkeley, Cal. Temperature-regulating device. No. 1,047,536; Dec. 17; Gaz. vol. 185; p. 675.
Kerchner, John, and J. Stugner, Pittsburgh, Pa. Packing. No. 1,042,926; Oct. 29; Gaz. vol. 183; p. 1232.
Kerian, Frank, Grafton, N. D. Drill-shoe. No. 1,047,816; Dec. 17; Gaz. vol. 185; p. 774.
Kern, Adam, Frankenmuth, Mich. Tile-molding machine. No. 1,023,656; Apr. 16; Sp. p. 4033; Gaz. vol. 177; p. 707.
Kern, Albert. (See Block, Alexander E., assignor.)
Kern, Albert, Aachen, Germany. Hand-card. No. 1,042,234; Oct. 22; Gaz. vol. 183; p. 966.
Kern, Charles J., and J. E. Thebaud, Buffalo, N. Y.; said Thebaud assignor to said Kern. Window-cleaning device. No. 1,043,523; Nov. 5; Gaz. vol. 184; p. 172.
Kern, Edward J., Brooklyn, N. Y. Machine for making tubes. No. 1,018,114; Feb. 20; Sp. p. 4186; Gaz. vol. 175; p. 720.
Kern, Emil A., West New York, N. J. Poison-indicating bottle. No. 1,032,610; July 16; Gaz. vol. 180; p. 690.
Kern, George, Peru, assignor to The Western Clock Manufacturing Company, La Salle, Ill. Clock-spring barrel. No. 1,033,020; July 16; Gaz. vol. 180; p. 829.
Kern, George W., Oil City, assignor to Oil Well Supply Company, Pittsburgh, Pa. Threadless coupling for pipes. No. 1,048,703; Dec. 31; Gaz. vol. 185; p. 1142.

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Kern, Hayden A., Dayton, Ohio. Composition to facilitate the tapping of aluminum or the like. No. 1,041,484; Oct. 15; Gaz. vol. 183; p. 677.
Kern, Henry L., Kensington, Kans. Frame and steering mechanism for grain-drills. No. 1,016,225; Jan. 30; Sp. p. 6835; Gaz. vol. 174; p. 1188.
Kern, William H., Jersey City, N. J. Resilient wheel. No. 1,033,417; July 23; Gaz. vol. 180; p. 1003.
Kernchen, Traugott, Rendsburg, Germany. Ventilator for buildings and vessels. No. 1,033,805; July 30; Gaz. vol. 180; p. 1156.
Kerner, John, Voorburg, Netherlands. Copying attachment for type-writers. No. 1,045,796; Nov. 26; Gaz. vol. 184; p. 1049.
Kerngood, Herman, assignor to Alma Manufacturing Company of Baltimore City, Baltimore, Md. Snap-fastener cap. No. 1,037,263; Sept. 3; Gaz. vol. 182; p. 30.
Kerns, James, assignor of three-fourths to J. Howse and one-fourth to N. Talmon, Wayne, Mich. Carbureter. No. 1,041,099; Oct. 15; Gaz. vol. 183; p. 548.
Kerr, Charles W., Park City, Mont. Measuring-tape-holding device. No. 1,013,400; Jan. 2; Sp. p. 686; Gaz. vol. 174; p. 109.
Kerr, Daniel, Youngstown, Ohio. Concrete-reinforcing bar. No. 1,022,850; Apr. 9; Sp. p. 2353; Gaz. vol. 177; p. 402.
Kerr, Duncan M., Palisade, Nebr. Supporting-clip. No. 1,041,296; Oct. 15; Gaz. vol. 183; p. 616.
Kerr, Edward, Pittsburgh, Pa. Attaching umbrella or cane handles. No. 1,019,657; Mar. 5; Sp. p. 1430; Gaz. vol. 176; p. 220.
Kerr, Edward, Pittsburgh, Pa. Treating ores. No. 1,032,007; July 9; Gaz. vol. 180; p. 443.
Kerr, Elisha R., Erin, Tenn. Road-scraper. No. 1,042,450; Oct. 29; Gaz. vol. 183; p. 1067.
Kerr, Harry E., Detroit, Mich. Valve. No. 1,014,230; Jan. 9; Sp. p. 2537; Gaz. vol. 174; p. 424.
Kerr, Harry E., Detroit, Mich. Carbureter. No. 1,018,766; Feb. 27; Sp. p. 5647; Gaz. vol. 175; p. 975.
Kerr, Harry G., Philadelphia, Pa. Paper-box-making machine. No. 1,020,763; Mar. 19; Sp. p. 3746; Gaz. vol. 176; p. 657.
Kerr, Henry C., Roanoke, Va. Car-coupling. No. 1,014,485; Jan. 9; Sp. p. 3072; Gaz. vol. 174; p. 510.
Kerr, Jennie M., assignor to A. Walick, Chicago, Ill. Hat and head covering. No. 1,020,912; Mar. 19; Sp. p. 4044; Gaz. vol. 176; p. 706.
Kerrigan, John J., Philadelphia, Pa. Boiler-tube crimper. No. 1,042,121; Oct. 22; Gaz. vol. 183; p. 928.
Kerruish, Hudson B., Sullivan, assignor of one-half to himself, one-fourth to W. Boynton, and one-fourth to R. H. Sherry, St. Louis, Mo. Smoke-consumer. No. 1,046,196; Dec. 3; Gaz. vol. 185; p. 136.
Kershaw, Christopher, *et al.* (See Stallard, Sylvester P., assignor.)
Kershaw, Douglass B., assignor to P. H. Casey, Lynchburg, Va. Film fire-screen. No. 1,022,320; Apr. 2; Sp. p. 1177; Gaz. vol. 177; p. 189.
Kershaw, James E., Hillsboro, Oreg. Vehicle. No. 1,015,804; Jan. 30; Sp. p. 5972; Gaz. vol. 174; p. 1044.
Kershaw, James E., Vancouver, Wash. Harness. No. 1,026,751; May 21; Sp. p. 3646; Gaz. vol. 178; p. 634.
Kerst, Henry, Springfield, Ill. Acetylene-lamp. No. 1,016,275; Feb. 6; Sp. p. 72; Gaz. vol. 175; p. 14.
Kersteter, Charles W., Chicago, Ill. Main valve for dry-pipe automatic fire-extinguishing systems. No. 1,041,633; Oct. 15; Gaz. vol. 183; p. 724.
Kersteter, Charles W., Milwaukee, Wis. Sprinkler-head for automatic fire-extinguishers. No. 1,044,459; Nov. 12; Gaz. vol. 184; p. 523.
Kersteter, Joel C., assignor to Electric Heat Regulator Company, Minneapolis, Minn. Thermostat for electric heat-regulating systems. No. 1,020,289; Mar. 12; Sp. p. 2727; Gaz. vol. 176; p. 462.
Kerstetter, Aaron D., deceased, Oriental, Pa.; I. W. Kerstetter, administrator. Bridge structure. No. 1,023,781; Apr. 16; Sp. p. 4242; Gaz. vol. 177; p. 745.
Kerstetter, I. W., administrator. (See Kerstetter, Aaron D.)
Kertesz, Adolf, Mainkur, Germany, assignor to Cassella Color Company. Dyeing vegetable fibers with halogenated indigo and indigoid dyestuffs. No. 1,029,066; June 11; Sp. p. 2164; Gaz. vol. 179; p. 372.
Kertesz, Adolf, Mainkur, Germany, assignor to Cassella Color Company. Dyeing of cotton or linen cloth with vat-colors. No. 1,043,016; Oct. 29; Gaz. vol. 183; p. 1263.
Kertész, Alex, Newark, N. J. Combined lifting-jack and brake mechanism for automobiles. No. 1,029,301; June 11; Sp. p. 2664; Gaz. vol. 179; p. 451.
Keschansky, Daniel J. (See Zsan, Jacob, assignor.)
Keser, Louis. (See Capozzi and Keser.)
Kesseler, Paul, Steglitz, near Berlin, assignor to Martini & Huneke Maschinenbau-Aktien-Gesellschaft, Berlin, Germany. Apparatus for storing and discharging inflammable liquids. No. 1,047,075; Dec. 10; Gaz. vol. 185; p. 479.
Kesselman, Edward H., assignor of one-fourth to M. Kesselman, Butler, one-fourth to J. McMichael, and one-fourth to E. McMichael, Chicora, Pa. Gas-burner for furnaces. No. 1,022,558; Apr. 9; Sp. p. 1698; Gaz. vol. 177; p. 300.
Kesselman, Margaret, *et al.* (See Kesselman, Edward H., assignor.)
Kesselring, William D., Atchison, Kans. Piston-rod and valve-stem packing. No. 1,021,683; Mar. 26; Sp. p. 5660; Gaz. vol. 176; p. 1019.
Kessels, William T. (See Potts, James W., assignor.)
Kessler, Abraham. (See Spitz and Kessler.)
Kessler, Albert F., Utica, N. Y. Strap-forming machine. No. 1,014,065; Jan. 9; Sp. p. 2184; Gaz. vol. 174; p. 365.
Kessler, Edward E., assignor of one-half to J. M. Rinker, Anderson, Ind. Switch mechanism. No. 1,025,276; May 7; Sp. p. 361; Gaz. vol. 178; p. 59.
Kessler, Jacob, and J. Weiss, Pittsburgh, Pa. Machine for turning crank-pins. No. 1,015,188; Jan. 16; Sp. p. 4627; Gaz. vol. 174; p. 780.
Kessler, Louis, Chicago, Ill. Air and gas engine. No. 1,042,560; Oct. 29; Gaz. vol. 183; p. 1105.
Kessler, Louis, Chicago, Ill. Caloric engine. No. 1,044,536; Nov. 19; Gaz. vol. 184; p. 580.
Kessler, Martin C., assignor to The Kessler Motor Company, Denver, Colo. Explosive-engine. No. 1,046,392; Dec. 3; Gaz. vol. 185; p. 207.
Kessler Motor Company, The. (See Kessler, Martin C., assignor.)
Kessler, Richard Y., Morrisonville, Ill. Ditching-machine. No. 1,039,412; Sept. 24; Gaz. vol. 182; p. 844.
Kester, Franklin, Twin Brooks, S. D. Stamp-canceling machine. No. 1,021,608; Mar. 26; Sp. p. 5540; Gaz. vol. 176; p. 995.
Kestler, Fred. (See Best, Edwin J., assignor.)
Kestler, Nicholas A., *et al.* (See Braddock, Isaac A., assignor.)
Kestner Evaporator Company. (See Kestner, Paul, assignor.)
Kestner, Paul, Lille, France. Apparatus for raising liquids by compressed air. No. 1,025,699; May 7; Sp. p. 1313; Gaz. vol. 178; p. 204.
Kestner, Paul, Lille, France. Pulsation apparatus. No. 1,043,707; Nov. 5; Gaz. vol. 184; p. 233.
Kestner, Paul, Lille, France, assignor to Kestner Evaporator Company, Philadelphia, Pa. Evaporating apparatus. No. 1,016,160; Jan. 30; Sp. p. 6716; Gaz. vol. 174; p. 1167.
Kestner, Paul, Lille, France, assignor to Kestner Evaporator Company, Philadelphia, Pa. Concentrating liquids. No. 1,022,321; Apr. 2; Sp. p. 1179; Gaz. vol. 177; p. 190.
Kestner, Paul, Lille, France, assignor to Kestner Evaporator Company, Philadelphia, Pa. Process of evaporation and apparatus therefor. No. 1,028,737; June 4; Sp. p. 1439; Gaz. vol. 179; p. 223.
Kestner, Paul, Lille, France, assignor to Kestner Evaporator Company, Philadelphia, Pa. Evaporating apparatus. No. 1,028,738; June 4; Sp. p. 1442; Gaz. vol. 179; p. 224.
Kestner, Paul, Lille, and P. Lagrange, Paris, France. Crystallizing sugar-juices. No. 1,031,559; July 2; Gaz. vol. 180; p. 247.
Ketcham, William H., Oakland, Cal. Strainer. No. 1,048,546; Dec. 31; Gaz. vol. 185; p. 1086.
Ketchum, Ernest C., Boston, and D. H. Andrews, Newton Center, Mass. Adjustable brush-support. No. 1,031,071; July 2; Gaz. vol. 180; p. 79.
Ketchum, Serenus D., *et al.* (See Pickett, John B., assignor.)
Ketler, Perry O., New Waterford, Ohio. Milk-can lock. No. 1,019,052; Mar. 5; Sp. p. 87; Gaz. vol. 176; p. 17.
Ketterer, Eugen, Essen-on-the-Ruhr, Germany. Valve-gear. No. 1,034,121; July 30; Gaz. vol. 180; p. 1268.
Ketterer, Percival C., New York, N. Y. Horseshoe. No. 1,040,958; Oct. 8; Gaz. vol. 183; p. 466.
Kettering, Charles F., Dayton, Ohio. Recording-key. No. 1,041,802; Oct. 22; Gaz. vol. 183; p. 821.
Kettering, Charles F., Dayton, Ohio, assignor to The Dayton Engineering Laboratories Co. Ignition apparatus for explosion-motors. No. 1,037,491; Sept. 3; Gaz. vol. 182; p. 107.
Kettering, Charles F., Dayton, Ohio, assignor to The Dayton Engineering Laboratories Co. Ignition system. No. 1,037,492; Sept. 3; Gaz. vol. 182; p. 108.
Kettering, Charles F., Dayton, Ohio, assignor to The Dayton Engineering Laboratories Co. Ignition system. No. 1,040,349; Oct. 8; Gaz. vol. 183; p. 257.
Kettering, Charles F., assignor to C. E. Mendenhall and L. P. Earnshaw, Dayton, Ohio. Electric railway-gate. No. 1,046,605; Dec. 10; Gaz. vol. 185; p. 320.
Kettering, Charles F., and W. A. Chryst, assignors to The National Cash Register Company, Dayton, Ohio. Cash-register. No. 1,025,277; May 7; Sp. p. 362; Gaz. vol. 178; p. 59.
Kettle River Company, The. (See Newton, Harold M., assignor.)
Kettridge, Sidney, Washington, D. C. Pictorial accounting-demonstrator. No. 1,033,806; July 30; Gaz. vol. 180; p. 1156.
Kevitt, Edward N., and J. Gemeinhardt, Passaic, N. J. Folding election-booth. No. 1,045,854; Dec. 3; Gaz. vol. 185; p. 21.

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Key, William C., Knoxville, Tenn. Apparatus for scalding grass. No. 1,042,688; Oct 29; Gaz. vol. 183; p. 1151.
Key, William W., Fayetteville, Ark. Revolver. No. 1,042,007; Oct. 22; Gaz. vol. 183; p. 890.
Key, William W., Fayetteville, Ark. Revolver. No. 1,049,105; Dec. 31; Gaz. vol. 185; p. 1280.
Key, William W., Fayetteville, Ark. Revolver. No. 1,049,106; Dec. 31; Gaz. vol. 185; p. 1281.
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Keyes, Anson L., Faribault, Minn. Tool for coupling pipes. No. 1,035,448; Aug. 13; Gaz. vol. 181; p. 385.
Keyes, Eugene L., Boston, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for use in the manufacture of shoes. No. 1,023,854; Apr. 23; Sp. p. 4449; Gaz. vol. 177; p. 799.
Keyes, Eugene L., Boston, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Lasting-machine. No. 1,029,197; June 11; Sp. p. 2441; Gaz. vol. 179; p. 415.
Keyes, Frank E., New York, N. Y. Core-board for piece goods. No. 1,033,250; July 23; Gaz. vol. 180; p. 948.
Keyes, Frederick G., Boston, and C. A. Kraus, Newton Highlands, Mass. Seal for fused-silicate containers. No. 1,014,757; Jan. 16; Sp. p. 3707; Gaz. vol. 174; p. 633.
Keyes, George, Idaho Springs, Colo. Siding and shingling gage. No. 1,031,854; July 9; Gaz. vol. 180; p. 392.
Keyes, James A. (See Keyes, Stanley J., assignor.)
Keyes, James A., New York, N. Y. Soap-press. No. 1,018,426; Feb. 27; Sp. p. 4853; Gaz. vol. 175; p. 859.
Keyes, James A., New York, N. Y., assignor, by mesne assignments, to The Columbia Motor Car Company, Hartford, Conn. Cab-fare register. No. 1,036,259; Aug. 20; Gaz. vol. 181; p. 701.
Keyes, James T., New York, N. Y. Side guard for spring-mattresses. No. 1,045,563; Nov. 26; Gaz. vol. 184; p. 968.
Keyes, James T., New York, N. Y. Spring-mattress. No. 1,047,076; Dec. 10; Gaz. vol. 185; p. 480.
Keyes, Stanley J., assignor of one-half to J. A. Keyes, New York, N. Y. Catheter device. No. 1,032,611; July 16; Gaz. vol. 180; p. 691.
Keys, Joseph F., Gypsum, Kans. Apparatus for producing fluid-pressure. No. 1,040,350; Oct. 8; Gaz. vol. 183; p. 258.
Keyser, Charles C., Pensacola, Fla. Internal-combustion engine. No. 1,035,600; Aug. 13; Gaz. vol. 181; p. 436.
Keyser, John N., and G. Topham, Washington, D. C. Basket. No. 1,020,290; Mar. 12; Sp. p. 2728; Gaz. vol. 176; p. 462.
Keystone Fireproofing Company. (See Connell, William S., assignor.)
Keystone Furnace Construction Company. (See Knox, Luther L., assignor.)
Keystone Lantern Company. (See Casey, John T., assignor.)
Keystone Manufacturing Company, The. (See Scholler, Charles J., assignor.)
Keystone Nut Lock Manufacturing Company. (See Stafford, Benjamin E. D., assignor.)
Keystone Watch Case Company, The. (See Freund, Joseph A., assignor.)
Keystone Watch Case Company, The. (See Nutting, Granville, assignor.)
Keystone Watch Case Company. (See Perry, Earle S., assignor.)
Keyworth, William C., Paterson, N. J. Thread-finishing machine. No. 1,046,197; Dec. 3; Gaz. vol. 185; p. 137.
Kharas, Theodore, Buffalo, N. Y. Advertising or display device. No. 1,030,734; June 25; Sp. p. 6036; Gaz. vol. 179; p. 1028.
Kibat, Christopher, Belvidere, Ill. Feeder for corn-shredders. No. 1,028,739; June 4; Sp. p. 1450; Gaz. vol. 179; p. 224.
Kibby, Albert S., Perry, Iowa. Gearing. No. 1,020,913; Mar. 19; Sp. p. 4045; Gaz. vol. 176; p. 706.
Kibby, William J., New York, N. Y., assignor to Space-saving Appliance Company. Water-heater. No. 1,018,711; Feb. 27; Sp. p. 5519; Gaz. vol. 175; p. 956.
Kibler, Walter, Indianapolis, Ind. Making lime-sulfur solution. No. 1,038,387; Sept. 10; Gaz. vol. 182; p. 439.
Kich, Julian, Lyndora, Pa. Material for treating copper. No. 1,041,297; Oct. 15; Gaz. vol. 183; p. 616.
Kicklighter, Charles H., Newberry, S. C. Induction synchronous motor. No. 1,027,422; May 28; Sp. p. 5148; Gaz. vol. 178; p. 903.
Kidd, James R., Feeding Hills, Mass. Claw-hammer attachment. No. 1,029,934; June 18; Sp. p. 4082; Gaz. vol. 179; p. 708.
Kidner, Thomas B. (See Kilburn, Fairley, Kidner, Irvine, and Chestnut.)
Kidney, Alfred H., Orange, N. J., assignor to International Concentrator Company, New York, N. Y. Dry ore-concentrator. No. 1,036,260; Aug. 20; Gaz. vol. 181; p. 701.
Kidney, James W., Point Pleasant, W. Va. Steam-generator. No. 1,021,935; Apr. 2; Sp. p. 375; Gaz. vol. 177; p. 62.
Kidston, Robert W., Youngstown, Ohio. Baggage-truck. No. 1,024,342; Apr. 23; Sp. p. 5512; Gaz. vol. 177; p. 966.
Kidwell, Jeremiah H. (See Cox and Kidwell.)
Kiefer, Henry, Philadelphia, Pa. Curtain-fixture. No. 1,017,765; Feb. 20; Sp. p. 3341; Gaz. vol. 175; p. 598.
Kiefer, Jacob, Cleveland, Ohio. Device for mending shoes. No. 1,023,155; Apr. 16; Sp. p. 3034; Gaz. vol. 177; p. 544.
Kiefer, John P., Washington, D. C. Horseshoe. No. 1,035,969; Aug. 20; Gaz. vol. 181; p. 597.
Kiefer, Karl, Cincinnati, Ohio. Filter. No. 1,015,326; Jan. 23; Sp. p. 4939; Gaz. vol. 174; p. 854.
Kiefer, Karl, Cincinnati, Ohio. Rotary machine. No. 1,017,418; Feb. 13; Sp. p. 2629; Gaz. vol. 175; p. 445.
Kiefer, Karl, Cincinnati, Ohio. Bottle-rinsing machine. No. 1,022,196; Apr. 2; Sp. p. 940; Gaz. vol. 177; p. 150.
Kiefer, Karl, Cincinnati, Ohio. Filter. No. 1,023,254; Apr. 16; Sp. p. 3232; Gaz. vol. 177; p. 578.
Kiefer, Karl, Cincinnati, Ohio. Filter-pulp-washing machine. No. 1,036,123; Aug. 20; Gaz. vol. 181; p. 652.
Kiefer, Karl, Cincinnati, Ohio. Making alcohol. No. 1,041,298; Oct. 15; Gaz. vol. 183; p. 616.
Kiel, Clemens A., Louisville, Ky. Ball-and-socket pipe-joint. No. 1,022,197; Apr. 2; Sp. p. 944; Gaz. vol. 177; p. 151.
Kiel, John C., assignor to Deere & Company, Moline, Ill. Cultivator. No. 1,019,803; Mar. 12; Sp. p. 1717; Gaz. vol. 176; p. 300.
Kielar, Stanislaw, *et al.* (See Willma, Theodor, assignor.)
Kienast, Arnold, Leipzig, Germany. Turbine. No. 1,022,683; Apr. 9; Sp. p. 1976; Gaz. vol. 177; p. 343.
Kienast, Arnold, Leipzig, Germany. Turbine. No. 1,025,141; May 7; Sp. p. 65; Gaz. vol. 178; p. 12.
Kienast, Arnold, Leipzig, Germany. Multicellular turbine-blades. No. 1,045,154; Nov. 26; Gaz. vol. 184; p. 823.
Kiene, Harry A., Indianapolis, Ind. Nut-lock. No. 1,045,797; Nov. 26; Gaz. vol. 184; p. 1049.
Kiener, Paul A. M., Leipzig, Germany. Lasting-machine. No. 1,042,799; Oct. 29; Gaz. vol. 183; p. 1189.
Kieninger, Herman C., Pocahontas, Mo. Vehicle-headlight. No. 1,043,843; Nov. 12; Gaz. vol. 184; p. 311.
Kienker, William H., Richmond, Ind. Electrically-operable open-at-will elevator-gate mechanism. No. 1,037,637; Sept. 3; Gaz. vol. 182; p. 154.
Kier, Albert J., Copenhagen, Denmark. Apparatus for the filling of tubes. No. 1,026,956; May 21; Sp. p. 4146; Gaz. vol. 178; p. 707.
Kier, Harry E., Colorado Springs, Colo. Filtering apparatus. No. 1,026,917; May 21; Sp. p. 4031; Gaz. vol. 178; p. 692.
Kies, Orville D., New York, N. Y. Hand sewing-machine. No. 1,017,262; Feb. 13; Sp. p. 2299; Gaz. vol. 175; p. 391.
Kiesel, John S., Altoona, Pa. Inertia device for locomotive valve-gears. No. 1,037,021; Aug. 27; Gaz. vol. 181; p. 991.
Kiesel, William F., Jr., Altoona, Pa. Car-truck. No. 1,016,073; Jan. 30; Sp. p. 6564; Gaz. vol. 174; p. 1139.
Kiesel, William F., Jr., Altoona, Pa. Brake-rigging. No. 1,022,424; Apr. 9; Sp. p. 1430; Gaz. vol. 177; p. 256.
Kieser, Karl, Dusseldorf, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Supporting frame or rack for film or film-like materials. No. 1,034,467; Aug. 6; Gaz. vol 181; p. 22.
Kieser, Walter, Charlottenburg, Germany, assignor to General Electric Company. Oil-circulating system for lubricating and regulating. No. 1,017,557; Feb. 13; Sp. p. 2912; Gaz. vol. 175; p. 492.
Kieser, Walter, Charlottenburg, Germany, assignor to General Electric Company. Stage-valve for turbines. No. 1,020,705; Mar. 19; Sp. p. 3626; Gaz. vol. 176; p. 637.
Kieser, Walter, Charlottenburg, Germany, assignor to General Electric Company. Packing for elastic-fluid turbines. No. 1,022,788; Apr. 9; Sp. p. 2224; Gaz. vol. 177; p. 381.
Kieser, Walter, Charlottenburg, Germany, assignor to General Electric Company. Leakage-reducing device. No. 1,041,485; Oct. 15; Gaz. vol. 183; p. 677.
Kieser, Walter, Berlin, Germany, assignor to General Electric Company. Centrifugal pump. No. 1,020,699; Mar. 19; Sp. p. 3614; Gaz. vol. 176; p. 634.
Kieser, Walter, Berlin, Germany, assignor to General Electric Company. Centrifugal pumping apparatus. No. 1,020,700; Mar. 19; Sp. p. 3617; Gaz. vol. 176; p. 635.
Kieser, Walter, Berlin, Germany, assignor to General Electric Company. Centrifugal pump for abstracting air and water from surface condensers. No. 1,020,701; Mar. 19; Sp. p. 3619; Gaz. vol. 176; p. 635.
Kieser, Walter, Berlin, Germany, assignor to General Electric Company. Surface condenser. No. 1,020,702; Mar. 19; Sp. p. 3621; Gaz. vol. 176; p. 636.
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Kieser, Walter, Berlin, Germany, assignor to General Electric Company. Fluid-flow measuring or regulating device. No. 1,025,809; May 7; Sp. p. 1534; Gaz. vol. 178; p. 242.
Kiessig, Bernhard R., Chicago, assignor of one-half to J. N. Vasey, Brookfield, Chicago, Ill. Keyed zither. No. 1,015,896; Jan. 30; Sp. p. 6169; Gaz. vol. 174; p. 1076.
Kiessig, Harry R., Sacramento, Cal. Closet attachment. No. 1,038,388; Sept. 10; Gaz. vol. 182; p. 439.
Kiessig, Oscar, assignor of one-half to C. F. Clark, Chicago, Ill. Tobacco-pipe. No. 1,037,493; Sept. 3; Gaz. vol. 182; p. 108.
Kievlan, George M., Atchison, Kans. Current-motor. No. 1,014,066; Jan. 9; Sp. p. 2187; Gaz. vol. 174; p. 366.
Kieweg, Engelbert, H. Moeller, and F. Wagner, Milwaukee, Wis. Mixing-valve. No. 1,025,575; May 7; Sp. p. 1060; Gaz. vol. 178; p. 163.
Kiewicz, John, Hyde Park, Mass. Sewing-machine. No. 1,014,231; Jan. 9; Sp. p. 2538; Gaz. vol. 174; p. 424.
Kiewicz, John, Hyde Park, Mass. Sewing-machine. No. 1,020,041; Mar. 12; Sp. p. 2202; Gaz. vol. 176; p. 379.
Kiewicz, John, Hyde Park, assignor to The Reece Button Hole Machine Company, Boston, Mass. Buttonhole-sewing machine. No. 1,021,739; Mar. 26; Sp. p. 5778; Gaz. vol. 176; p. 1037.
Kiewicz, John, Hyde Park, assignor to Reece Button Hole Machine Company, Boston, Mass. Buttonhole-sewing machine. No. 1,030,589; June 25; Sp. p. 5618; Gaz. vol. 179; p. 975.
Kiewicz, John, assignor to The Reece Button Hole Machine Company, Boston, Mass. Sewing-machine for finishing buttonholes. No. 1,047,537; Dec. 17; Gaz. vol. 185; p. 675.
Kight, William K., Dexter, Mo. Lens for eyeglasses. No. 1,022,789; Apr. 9; Sp. p. 2225; Gaz. vol. 177; p. 381.
Kilborn, Albert, Middle Brighton, Victoria, Australia. Elastic-fluid motor for milking apparatus. No. 1,032,220; July 9; Gaz. vol. 180; p. 514.
Kilbourn, Edward E., New Brunswick, N. J., assignor to The Kilbourn Knitting Machine Company. Circular-knitting machine. No. 1,018,063; Feb. 20; Sp. p. 4077; Gaz. vol. 175; p. 703.
Kilbourn, Edward E., New Brunswick, N. J., assignor to The Interwoven Mills, Inc. Circular-knitting machine. No. 1,044,537; Nov. 19; Gaz. vol. 184; p. 580.
Kilbourn, Edward E., W. E. Smith, and I. W. Kilbourn, assignors to Kilbourn Manufacturing Corporation, New Brunswick, N. J. Topping-machine. No. 1,035,601; Aug. 13; Gaz. vol. 181; p. 436.
Kilbourn, Isaac W. (See Kilbourn, Smith, and Kilbourn.)
Kilbourn Knitting Machine Company, The. (See Butz, Walter D., assignor.
Kilbourn Knitting Machine Company, The. (See Kilbourn, Edward E., assignor.)
Kilbourn Manufacturing Corporation. (See Kilbourn, Smith, and Kilbourn, assignors.)
Kilbourne & Jacobs Manufacturing Company, The. (See Cartzdafner, Roy E., assignor.)
Kilbourne and Jacobs Manufacturing Company, The. (See Hubbard, Fred W., assignor.)
Kilbourne & Jacobs Manufacturing Company, The. (See Wilcox, John M., assignor.)
Kilburn, John, J. W. Fairley, T. B. Kidner, W. H. Irvine, and W. T. Chestnut, Fredericton, New Brunswick, Canada, assignors to Monitor Gas Generator Company, New York, N. Y. Gas-generator. No. 1,029,872; June 18; Sp. p. 3940; Gaz. vol. 179; p. 686.
Kilburn, John, J. W. Fairley, T. B. Kidner, W. H. Irvine, and W. T. Chestnut, Fredericton, New Brunswick, Canada, assignors to Monitor Gas Generator Company, New York, N. Y. Acetylene-gas generator. No. 1,029,873; June 18; Sp. p. 3944; Gaz. vol. 179; p. 687.
Kilburn, John, J. W. Fairley, T. B. Kidner, W. H. Irvine, and W. T. Chestnut, Fredericton, New Brunswick, Canada, assignors to Monitor Gas Generator Company, New York, N. Y. Acetylene-gas generator. No. 1,029,874; June 18; Sp. p. 3948; Gaz. vol. 179; p. 687.
Kilburn, John, J. W. Fairley, T. B. Kidner, W. H. Irvine, and W. T. Chestnut, Fredericton, New Brunswick, Canada, assignors to Monitor Gas Generator Company, New York, N. Y. Acetylene-generator. No. 1,029,999; June 18; Sp. p. 4203; Gaz. vol. 179; p. 729.
Kilburn, John E., assignor, by mesne assignments, to Hale and Kilburn Company, Philadelphia, Pa. Window-lock. No. 1,041,803; Oct. 22; Gaz. vol. 183; p. 821.
Kilby, Edgar E. (See Radcliff and Kilby.)
Kile, Joseph R., Neodesha, Kans. Safety-catch. No. 1,026,210; May 14; Sp. p. 2484; Gaz. vol. 178; p. 416.
Kilgore, Charles T., assignor of one-third to J. P. Smith, Hot Springs, Ark. Standard metal railway cross-tie. No. 1,017,558; Feb. 13; Sp. p. 2913; Gaz. vol. 175; p. 492.
Kilgore, Joseph D. (See Atkinson, William R., assignor.)
Kilgore, Joseph D., assignor to L. E. Rott, Homestead, Pa. Toy pistol. No. 1,041,804; Oct. 22; Gaz. vol. 183; p. 822.
Kilgore, Starling, Crosby, Tex. Spring-wheel. No. 1,046,606; Dec. 10; Gaz. vol. 185; p. 320.
Kill, Herman, Liberty, Ill. Planter attachment. No. 1,017,559; Feb. 13; Sp. p. 2914; Gaz. vol. 175; p. 493.
Killebrew, Ernest C., Evansville, Ind. Fan attachment for rocking-chairs. No. 1,016,161; Jan. 30; Sp. p. 6719; Gaz. vol. 174; p. 1168.
Killebrew, Oscar D., Richmond, Va. Stylus. No. 1,028,029; May 28; Sp. p. 6434; Gaz. vol. 178; p. 1104.
Killeen, Andrew J. (See Cheney, John W., assignor.)
Killeen, Thomas J., Portland, Oreg. Car-fender. No. 1,026,678; May 21; Sp. p. 3494; Gaz. vol. 178; p. 610.
Killen, Edward B., London, England. Vehicle-wheel. No. 1,016,330; Feb. 6; Sp. p. 215; Gaz. vol. 175; p. 33.
Killen, William H. (See Hamel, Louis C., assignor.)
Killian, Maximilian. (See Fiko and Killian.)
Killinger, Albert T. (See Mendenhall and Killinger.)
Killinger, Philip N., Pittsburgh, Pa. Measuring instrument. No. 1,014,232; Jan. 9; Sp. p. 2543; Gaz. vol. 174; p. 425.
Killingsworth, Louis R., Salt Lake City, Utah. Sash-fastener. No. 1,018,427; Feb. 27; Sp. p. 4858; Gaz. vol. 175; p. 860.
Killion, John F., Attleboro, Mass. Combination pendant and locket. No. 1,045,036; Nov. 19; Gaz. vol. 184; p. 755.
Killion, John F., assignor to S. M. Einstein, Attleboro, Mass. Locket. No. 1,045,155; Nov. 26; Gaz. vol. 184; p. 824.
Killion, John H., Chicago, Ill. Barrel or receptacle. No. 1,047,652; Dec. 17; Gaz. vol. 185; p. 717.
Killion, John H., Chicago, Ill. Sheet-metal packing-case. No. 1,047,653; Dec. 17; Gaz. vol. 185; p. 718.
Killpatrick, Patrick, Huron, S. D. Ventilating and perfuming device. No. 1,032,912; July 16; Gaz. vol. 180; p. 794.
Kilmer, William A., and S. Swanbum, De Kalb, Ill., assignors to American Steel & Wire Company, Worcester, Mass. Reel. No. 1,036,642; Aug. 27; Gaz. vol. 181; p. 865.
Kilmer, William A., and S. Swanbum, De Kalb, Ill., assignors to The American Steel & Wire Company of New Jersey, Chicago, Ill. Collapsible reel for wire. No. 1,036,643; Aug. 27; Gaz. vol. 181; p. 865.
Kilmer, William A., and S. Swanbum, De Kalb, Ill., assignors to The American Steel & Wire Company of New Jersey, Chicago, Ill. Support for wire-reels. No. 1,036,644; Aug. 27; Gaz. vol. 181; p. 865.
Kilpatrick & Hotz Company, The. (See Peet, Wilbur G., assignor.)
Kilpatrick, John A., Fort Dodge, Iowa. Mail-carrier's box. No. 1,018,325; Feb. 20; Sp. p. 4617; Gaz. vol. 175; p. 792
Kilpatrick, Robert L., Hempstead, assignor of one-fourth to W. C. Rollins and one-fourth to C. H. Waller, Prairie View, Tex. Plow. No. 1,039,754; Oct. 1; Gaz. vol. 183; p. 28.
Kilpatrick, William J., assignor to Burroughs Adding Machine Company, Detroit, Mich. Adding and listing machine. No. 1,016,276; Feb. 6; Sp. p. 74; Gaz. vol. 175; p. 14.
Kilpper, Rudolph, Houston, Tex. Hat-pouncing machine. No. 1,037,925; Sept. 10; Gaz. vol. 182; p. 285.
Kimball, Frank I. (See Shaw and Kimball.)
Kimball, Frank I., and C. H. Daum, West Haven, assignors to Sargent & Co., New Haven, Conn. Duplex pin-tumbler lock. No. 1,044,186; Nov. 12; Gaz. vol. 184; p. 429.
Kimball, Frank J., Los Angeles, Cal. Air-lift. No. 1,039,958; Oct. 1; Gaz. vol. 183; p. 95.
Kimball, George W. (See Cooper, Leslie A., assignor.)
Kimball, Irwin P., and R. J. Pratt, assignors to Honolulu Iron Works Company, Honolulu, Hawaii. Intermediate belt conveyer for sugar-cane mills. No. 1,020,706; Mar. 19; Sp. p. 3627; Gaz. vol. 176; p. 637.
Kimball, James L., Haverhill, Mass. Guiding mechanism for sewing-machines. No. 1,026,095; May 14; Sp. p. 2228; Gaz. vol. 178; p. 376.
Kimball, James L., assignor to Locke Regulator Company, Salem, Mass. Engine-stop. No. 1,026,041; May 14; Sp. p. 2079; Gaz. vol. 178; p. 356.
Kimball, Perley L., assignor to Vermont Farm Machine Company, Bellows Falls, Vt. Apparatus for use in cleaning cream-separator sections. No. 1,043,606; Nov. 5; Gaz. vol. 184; p. 199.
Kimball, Robert E., assignor to The Tickometer Company, Cleveland, Ohio. Ticket counting and inspecting machine. No. 1,027,613; May 28; Sp. p. 5527; Gaz. vol. 178; p. 967.
Kimball, William H. (See Innis, George C., assignor.)
Kimball, William H., Tallapoosa, Ga. Well-top. No. 1,045,037; Nov. 19; Gaz. vol. 184; p. 755.
Kimbell, John L. (See Humason, Granville A., assignor.)
Kimber, Joseph F., Apple Creek, Ohio. Appliance for controlling moving trains. No. 1,045,038; Nov. 19; Gaz. vol. 184; p. 755.
Kimberly-Clark Company. (See Thom, Peter R., assignor.)
Kimble, Austin, assignor to Kimble Electric Company, Chicago, Ill. No-voltage release mechanism. No. 1,043,942; Nov. 12; Gaz. vol. 184; p. 346.
Kimble Electric Company. (See Kimble, Austin, assignor.)

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Kimbler, Henry R., San Antonio, Tex. Music-leaf holder and turner. No. 1,034,916; Aug. 6; Gaz. vol. 181; p. 172.
Kimbo Co. (See Buth, Henry F., assignor.)
Kime, John J., Kendallville, Ind. Prime mover. No. 1,033,418; July 23; Gaz. vol. 180; p. 1003.
Kimes, Hugh W., assignor to The Vaile and Kimes Company, Dayton, Ohio. Automatic pressure-regulator. No. 1,042,008; Oct. 22; Gaz. vol. 183; p. 891.
Kimmel, Earl G., Johnstown, Pa. Mail-bag. No. 1,021,837; Apr. 2; Sp. p. 192; Gaz. vol. 177; p. 31.
Kimmel, Edward C. (See Weaver and Kimmel.)
Kimmel, Frank W., Altoona, Pa. Combined pass-book and bill-file. No. 1,037,264; Sept. 3; Gaz. vol. 182; p. 30.
Kimmel, J. P. (See Cowart, Stephen A., assignor.)
Kimmel, John S., Saco, Mont. Pistol-stock. No. 1,016,695; Feb. 6; Sp. p. 1050; Gaz. vol. 175; p. 160.
Kimmel, Wilford W., New Weston, Ohio. Milking-pail attachment. No. 1,015,189; Jan. 16; Sp. p. 4628; Gaz. vol. 174; p. 780.
Kimmel, William A. (See Bernstrom, Thomas K., assignor.)
Kincaid, Floy D., Long Creek, Oreg. Churn and dasher. No. 1,026,517; May 14; Sp. p. 3148; Gaz. vol. 178; p. 519.
Kincaid, Ira, assignor of one-third to W. H. Neureither and one-third to M. A. Foote, Chicago, Ill. Brake-shoe for railway-cars. No. 1,025,916; May 7; Sp. p. 1809; Gaz. vol. 178; p. 278.
Kincaid, John, Vancouver, British Columbia, Canada. Water-wheel-gate ring. No. 1,015,805; Jan. 30; Sp. p. 5973; Gaz. vol. 174; p. 1045.
Kind, Maurice, Camden, N. J. Apparatus for cooling liquefied solids. No. 1,046,307; Dec. 3; Gaz. vol. 185; p. 177.
Kindberg, Alfred, Rockwell City, assignor of one-half to G. M. Andersson, Waterloo, Iowa. Speed-governor. No. 1,029,302; June 11; Sp. p. 2665; Gaz. vol. 179; p. 452.
Kindel, Arthur W., Denver, Colo. Apparatus for forming roll-edges on mattresses. No. 1,013,401; Jan. 2; Sp. p. 688; Gaz. vol. 174; p. 109.
Kindelberger, David G., Washington, D. C. Spectacular-display apparatus. No. 1,034,714; Aug. 6; Gaz. vol. 181; p. 104.
Kinder, Frank C., Franklin, assignor of one-half to W. B. Smith, Middletown, Ohio. Beet-harvester. No. 1,031,274; July 2; Gaz. vol. 180; p. 150.
Kindermann, Jacob, Leipzig, Germany. Destruction and deodorization of smoke. No. 1,024,204; Apr. 23; Sp. p. 5253; Gaz. vol. 177; p. 920.
Kindl, Joseph, Glen Ullin, N. D. Cultivator. No. 1,034,624; Aug. 6; Gaz. vol. 181; p. 74.
Kindleberger, Jefferson, assignor of two-thirds to Bowman & Rodabaugh, San Diego, Cal. Wave-motor. No. 1,032,337; July 9; Gaz. vol. 180; p. 555.
Kindler, Eduard, Friedenau-Berlin, Germany. Suspension device for trolley-wires. No. 1,022,143; Apr. 2; Sp. p. 833; Gaz. vol. 177; p. 132.
Kindstrand, Helmer, Rockford, Ill. Hand-vise and holder therefor. No. 1,030,242; June 18; Sp. p. 4724; Gaz. vol. 179; p. 813.
Kinetoplane Display Company. (See Rogers, Homer S., assignor.)
King, Albert E., Annandale, near Sydney, New South Wales, Australia. Arm-rest. No. 1,019,658; Mar. 5; Sp. p. 1431; Gaz. vol. 176; p. 220.
King, Albert K., and J. W. Irwin, Maricopa, Cal. Pump cross-head. No. 1,023,855; Apr. 23; Sp. p. 4461; Gaz. vol. 177; p. 799.
King, Alfred S., Norwich, England. Nailing-machine. No. 1,026,679; May 21; Sp. p. 3496; Gaz. vol. 178; p. 610.
King, Alfred S., Norwich, England. Means for supporting the lids of boxes and the like. No. 1,030,188; June 18; Sp. p. 4608; Gaz. vol. 179; p. 794.
King, Allen J., North Scituate, R. I. Drill. No. 1,033,419; July 23; Gaz. vol. 180; p. 1004.
King, Alvin L. (See Rouse and King.)
King, Bert W., assignor to Standard Computing Scale Company, Limited, Detroit, Mich. Scale. No. 1,047,952; Dec. 24; Gaz. vol. 185; p. 848.
King, C. C. (See Olson, Andrew N., assignor.)
King, Campbell T., Jr. (See Thiesen and King.)
King, Charles B., assignor of one-half to O. J. Mulford, Detroit, Mich. Throttle mechanism for automobiles. No. 1,016,750; Feb. 6; Sp. p. 1152; Gaz. vol. 175; p. 178.
King, Charles B., and C. B. Weston, assignors to The Marion Steam Shovel Company, Marion, Ohio. Operating mechanism for friction-clutches. No. 1,039,755; Oct. 1; Gaz. vol. 183; p. 29.
King, Charles B., and C. B. Weston, assignors to The Marion Steam Shovel Company, Marion, Ohio. Ballast-unloader. No. 1,043,844; Nov. 12; Gaz. vol. 184; p. 312.
King, Charles B., and J. W. Fellmeth, assignors to The Marion Steam Shovel Company, Marion, Ohio. Gold-saving table. No. 1,041,486; Oct. 15; Gaz. vol. 183; p. 678.
King, Charles B., and J. W. Fellmeth, assignors to The Marion Steam Shovel Company, Marion, Ohio. Frictional drive mechanism. No. 1,043,111; Nov. 5; Gaz. vol. 184; p. 22.
King, Charles E., Gray, Iowa. Draft-equalizer for cultivators. No. 1,028,076; May 28; Sp. p. 6556; Gaz. vol. 178; p. 1119.
King, Charles H., Jr., Oakland, Cal. Advertising-machine. No. 1,035,602; Aug. 13; Gaz. vol. 181; p. 437.
King, Charles W., Los Angeles, Cal. Wedge mechanism. No. 1,045,984; Dec. 3; Gaz. vol. 185; p. 64.
King, Charles W. G., assignor to The United States Metallic Packing Company, Philadelphia, Pa. Metallic rod-packing. No. 1,017,674; Feb. 20; Sp. p. 3146; Gaz. vol. 175; p. 567.
King, Charles W. G., assignor, by mesne assignments, to United States Metallic Packing Company, Philadelphia, Pa. Track-sander. No. 1,019,258; Mar. 5; Sp. p. 551; Gaz. vol. 176; p. 87.
King, Clifford G., Providence, R. I. Brooch. No. 1,023,940; Apr. 23; Sp. p. 4663; Gaz. vol. 177; p. 829.
King, Clifford G., assignor of one-half to A. I. Clark, Providence, R. I. Brooch. No. 1,046,077; Dec. 3; Gaz. vol. 185; p. 95.
King Construction Company. (See King, Robert O., assignor.)
King, Dean W., Denver, Colo. Rifle-sight. No. 1,015,233; Jan. 16; Sp. p. 4715; Gaz. vol. 174; p. 794.
King, Edward, Zurich, Switzerland. Marine boiler. No. 1,015,689; Jan. 23; Sp. p. 5746; Gaz. vol. 174; p. 978.
King, Edward F., Attleboro, Mass. Dripless tea-strainer. No. 1,019,967; Mar. 12; Sp. p. 2049; Gaz. vol. 176; p. 354.
King, Edward R., Asheville, N. C. Reclining porch-swing. No. 1,023,657; Apr. 16; Sp. p. 4035; Gaz. vol. 177; p. 707.
King, Ellis B., Jeannette, Pa. Curtain-pole. No. 1,029,372; June 11; Sp. p. 2840; Gaz. vol. 179; p. 477.
King, Ernest L. (See McMahan and King.)
King, Eugene W., assignor to Semet-Solvay Company, Syracuse, N. Y. Retort-coke-oven system. No. 1,038,762; Sept. 17; Gaz. vol. 182; p. 605.
King, F. J., *et al.* (See Davenport, Charles H., assignor.)
King, Frank D., *et al.* (See Doebler, Hugo, assignor.)
King, Frederick R., Chicago, Ill. Washing-machine or the like. No. 1,014,968; Jan. 16; Sp. p. 4197; Gaz. vol. 174; p. 706.
King, Frederick W., Cleveland, Ohio. Spectacles. No. 1,017,766; Feb. 20; Sp. p. 3343; Gaz. vol. 175; p. 598.
King, George H., assignor to King Measuring Device Company, Anderson, Ind. Measuring-machine for rolled material. No. 1,040,351; Oct. 8; Gaz. vol. 183; p. 258.
King, George R., New York, N. Y., assignor to J. B. King and Company. Plaster-board machine. No. 1,033,251; July 23; Gaz. vol. 180; p. 948.
King, George R., New York, N. Y., assignor to J. B. King & Co. Making plaster-board. No. 1,036,124; Aug. 20; Gaz. vol. 181; p. 652.
King, George R., New York, N. Y., assignor to J. B. King & Co. Plaster-board machine. No. 1,036,125; Aug. 20; Gaz. vol. 181; p. 652.
King & Hamilton Company. (See Gilman, John H., assignor.)
King & Hamilton Company. (See Hall, Frank, assignor.) (Reissue.)
King, Homer A., Colton, Cal. Rotary engine. No. 1,046,607; Dec. 10; Gaz. vol. 185; p. 320.
King, Howard K., Philadelphia, Pa., assignor to Chambers Brothers Company. Brick-pressing machine. No. 1,041,805; Oct. 22; Gaz. vol. 183; p. 822.
King, Howard K., Philadelphia, Pa., assignor to Chambers Brothers Company. Folding-machine. No. 1,041,806; Oct. 22; Gaz. vol. 183; p. 822.
King, Howard K., Philadelphia, Pa., assignor to Chambers Brothers Company. Sheet-feeding machine. No. 1,041,807; Oct. 22; Gaz. vol. 183; p. 823.
King, Howard K., Philadelphia, Pa., assignor to Chambers Brothers Company. Packing mechanism. No. 1,041,808; Oct. 22; Gaz. vol. 183; p. 823.
King, Jacob H., assignor to C. B. Miller, Piqua, Ohio. Roll-paper holder and cutter. No. 1,038,150; Sept. 10; Gaz. vol. 182; p. 359.
King, James D., and H. Irving, assignors to Continental Paper Bag Company, New York, N. Y. Paper-bag machine. No. 1,030,783; June 25; Sp. p. 6188; Gaz. vol. 179; p. 1046.
King, James H., Pacific Grove, Cal. Sanitary closet. No. 1,017,675; Feb. 20; Sp. p. 3148; Gaz. vol. 175; p. 567.
King, James M., North Vernon, Ind. Nutcracking-machine. No. 1,025,405; May 7; Sp. p. 659; Gaz. vol. 178; p. 103.
King, James M., Monett, Mo. Shade-bracket. No. 1,029,373; June 11; Sp. p. 2840; Gaz. vol. 179; p. 477.
King, James M., Frazee, Minn. Steering mechanism for motor-operated gang-plows. No. 1,033,708; July 23; Gaz. vol. 180; p. 1097.
King, James V., New Madison, Ohio. Convertible wagon. No. 1,033,596; July 23; Gaz. vol. 180; p. 1062.
King, Jesse C., assignor of one-third to W. H. Biebes, La Junta, Colo. Rotary engine. No. 1,024,787; Apr. 30; Sp. p. 6571; Gaz. vol. 177; p. 1156.

Alphabetical list of patentees—Continued.

King, John E., Detroit, Mich. Coffee-percolator. No. 1,035,970; Aug. 20; Gaz. vol. 181; p. 598.
King, John W., New York, N. Y., assignor to King Mechanism & Engineering Company. Dumping-receptacle. No. 1,043,845; Nov. 12; Gaz. vol. 184; p. 312.
King, Joseph G., Hendersonville, N. C. Door-hanger. No. 1,042,927; Oct. 29; Gaz. vol. 183; p. 1233.
King, Joseph S., assignor of one-half to W. A. Matthews, Baltimore, Md. Measuring device. No. 1,049,108; Dec. 31; Gaz. vol. 185; p. 1281.
King, Marion A., New Caney, Tex. Conveyer. No. 1,021,253; Mar. 26; Sp. p. 4778; Gaz. vol. 176; p. 872.
King, Marmaduke, Fingerboard, Ontario, Canada. Clover-huller. No. 1,041,809; Oct. 22; Gaz. vol. 183; p. 824.
King, Mary H., executrix. (See King, Tom C.)
King, Mary H. (See Wells, Horace L., assignor.)
King Measuring Device Company. (See King, George H., assignor.)
King Mechanism & Engineering Company. (See King, John W., assignor.)
King, Morris S., New York, N. Y. Air-washer. No. 1,035,603; Aug. 13; Gaz. vol. 181; p. 437.
King, Orrin H., Chicago, Ill., assignor to United States Concentrating Company. Ore-concentrating machine. No. 1,014,827; Jan. 16; Sp. p. 3874; Gaz. vol. 174; p. 657.
King, Otto S., New York, N. Y. Indicator for storage vessels. No. 1,014,486; Jan. 9; Sp. p. 3073; Gaz. vol. 174; p. 511.
King, Peter H. (See Rapp and King.)
King, Richard, *et al.* (See Sletto, Oscar K., assignor.)
King, Robert O., Buffalo, N. Y. Submarine boat. No. 1,017,103; Feb. 13; Sp. p. 1954; Gaz. vol. 175; p. 336.
King, Robert O., Buffalo, assignor to King Construction Company, North Tonawanda, N. Y. Clip for connecting rafters, purlins, and sash-bars of greenhouses. No. 1,048,704; Dec. 31; Gaz. vol. 185; p. 1142.
King, Robert R., New York, N. Y., and G. T. Price, West Orange, N. J., assignors to The Smith Premier Type writer Company, Syracuse, N. Y. Type-writing machine. No. 1,035,197; Aug. 13; Gaz. vol. 181; p. 297.
King, Samuel C., El Toro, Cal. Page-turning device. No. 1,013,781; Jan. 2; Sp. p. 1520; Gaz. vol. 174; p. 241.
King, Thomas E., Stockton, Cal. Roller-skate. No. 1,044,187; Nov. 12; Gaz. vol. 184; p. 429.
King, Tom C., deceased, East Orange, N. J.; M. H. King, executrix. Apparatus for heating and utilizing hydrochloric acid. No. 1,038,389; Sept. 10; Gaz. vol. 182; p. 440.
King, Versal D., Greensboro, Vt. Shingle-bracket. No. 1,028,362; June 4; Sp. p. 658; Gaz. vol. 179; p. 99.
King, Wallace N. (See Clark, Frederick, assignor.)
King, William C., assignor to International Manufacturing Company, Phillips, Me. Knife for cutting tooth-picks. No. 1,037,494; Sept. 3; Gaz. vol. 182; p. 108.
King, William J., Grand Blanc, Mich. Recoil-arrester. No. 1,038,390; Sept. 10; Gaz. vol. 182; p. 440.
King, William J., Grand Blanc, Mich. Recoil-arrester. No. 1,044,188; Nov. 12; Gaz. vol. 184; p. 430.
King, William W., Huntsburg, Ohio. Speed-recording device. No. 1,042,561; Oct. 29; Gaz. vol. 183; p. 1105.
King, Willis A., Pittsburg, Ga. Shoe polishing and cleaning machine. No. 1,032,067; July 9; Gaz. vol. 180; p. 462.
King, Willis L., Phenix, R. I. Vacuum-producer. No. 1,041,634; Oct. 15; Gaz. vol. 183; p. 725.
Kingan, James B., and H. F. Ripken, Minneapolis, Minn. Device for valve-gear. No. 1,023,520; Apr. 16; Sp. p. 3759; Gaz. vol. 177; p. 664.
Kingan, James B., and H. F. Ripken, Minneapolis, Minn. Piston-valve. No. 1,037,777; Sept. 3; Gaz. vol. 182; p. 200.
Kingman, Charles M., San Francisco, Cal. Rope-making machine. No. 1,036,261; Aug. 20; Gaz. vol. 181; p. 701.
Kingsbury, George W., New York, N. Y. Propeller. No. 1,013,402; Jan. 2; Sp. p. 690; Gaz. vol. 174; p. 109.
Kingsbury, William M., Cleveland, Ohio. Garbage and waste-paper receptacle. No. 1,021,872; Apr. 2; Sp. p. 262; Gaz. vol. 177; p. 42.
Kingsford, Edward C., deceased, London; P. A. Kingsford, Flimwell, England, executor. Wheel of vehicles. No. 1,046,804; Dec. 10; Gaz. vol. 185; p. 391.
Kingsford, Philip A., executor. (See Kingsford, Edward C.)
Kingsford, Thomas P., *et al.* (See Griessmann, Franz A., assignor.)
Kingsford, Thomas P., *et al.* (See Griessmann and Gottschling, assignors.)
Kingsland, James O., Sr., Brooklyn, N. Y. Combination-lock. No. 1,016,331; Feb. 6; Sp. p. 215; Gaz. vol. 175; p. 33.
Kingsley, Henry M., Chicago, Ill. Asphalt-melting wagon. No. 1,021,781; Apr. 2; Sp. p. 52; Gaz. vol. 177; p. 12.
Kingston, Thomas H., West Somerville, Mass. Combination-support for scaffolding. No. 1,033,252; July 23; Gaz. vol. 180; p. 948.
Kingston, William H., Newark, assignor to United Shoe Machinery Company, Paterson, N. J. Machine for setting lacing-hooks. (Reissue.) No. 13,461; Aug. 27; Gaz. vol. 181; p. 1046.
Kingwell, Kenneth F., Rugby, England, assignor to General Electric Company. Motor-control system. No. 1,022,029; Apr. 2; Sp. p. 591; Gaz. vol. 177; p. 93.
Kingwell, Kenneth F., Rugby, England, assignor to General Electric Company. Motor-control system. (Reissue.) No. 13,483; Oct. 29; Gaz. vol. 183; p. 1278.
Kinne, Edmund P., Alliance, Ohio, assignor to American Steel Foundries, New York, N. Y. Car-coupling. No. 1,013,880; Jan. 9; Sp. p. 1770; Gaz. vol. 174; p. 303.
Kinne, Edmund P., Alliance, Ohio, assignor to American Steel Foundries, New York, N. Y. Clevis for couplings. No. 1,037,926; Sept. 10; Gaz. vol. 182; p. 285.
Kinne, Samuel A., *et al.* (See Bair, George R., assignor.)
Kinnealy, Edmond M., *et al.* (See Richardson, William A., assignor.)
Kinnear Manufacturing Company, The. (See MacFarland, Allison M., assignor.)
Kinnear, William R., West Pittsburg, Pa. Forming connections between opposed walls of sheet-metal radiators. No. 1,015,738; Jan. 23; Sp. p. 5836; Gaz. vol. 174; p. 995.
Kinnell, George N., Pittsfield, Mass. Overshoe. No. 1,038,391; Sept. 10; Gaz. vol. 182; p. 440.
Kinner, James E. (See Arnold and Kinner.)
Kinney, Charles A., Seneca, Pa. Internal-combustion-engine starter. No. 1,025,810; May 7; Sp. p. 1536; Gaz. vol. 178; p. 243.
Kinney, Charles L., Akron, Ohio. Sugar-bin. No. 1,033,907; July 30; Gaz. vol. 180; p. 1192.
Kinney, Daniel R., Eaton, Colo. Folding luggage and hat rack. No. 1,021,838; Apr. 2; Sp. p. 194; Gaz. vol. 177; p. 32.
Kinney, Daniel R., Greeley, assignor of one-fourth to F. Herb, Denver, Colo. Grasshopper-exterminator. No. 1,040,549; Oct. 8; Gaz. vol. 183; p. 327.
Kinney, Henry M., assignor to Winona Wagon Company, Winona, Minn. Transmission and control system. No. 1,029,018; June 11; Sp. p. 2070; Gaz. vol. 179; p. 356.
Kinney, Henry M., assignor to Winona Wagon Company, Winona, Minn. Motor-wagon. No. 1,030,735; June 25; Sp. p. 6037; Gaz. vol. 179; p. 1029.
Kinney, Jacob C., Prairie Grove, Ark. Lock. No. 1,030,189; June 18; Sp. p. 4609; Gaz. vol. 179; p. 794.
Kinney, John F., Shelby, Nebr. Stamp-vending machine. No. 1,023,020; Apr. 9; Sp. p. 2693; Gaz. vol. 177; p. 460.
Kinney, Joseph W., Goldcreek, Mont. Disk harrow. No. 1,020,291; Mar. 12; Sp. p. 2730; Gaz. vol. 176; p. 462.
Kinney, Justus R., Dorchester, Mass. Rotary pump. No. 1,031,072; July 2; Gaz. vol. 180; p. 79.
Kinney, Justus R., Boston, Mass. Rotary pump for reversing-engines. No. 1,035,449; Aug. 13; Gaz. vol. 181; p. 385.
Kinney, Lloyd H., and W. McGuire, Clifton, Pa. Automatic-block-signal joint. No. 1,027,343; May 21; Sp. p. 4972; Gaz. vol. 178; p. 837.
Kinney, Merton M., Cloquet, Minn. Hand-loom. No. 1,020,292; Mar. 12; Sp. p. 2731; Gaz. vol. 176; p. 463.
Kinnick, George, Edna, Kans. Cotton-chopper. No. 1,019,804; Mar. 12; Sp. p. 1719; Gaz. vol. 176; p. 300.
Kinsella, Albert J., Pontiac, Ill. Wire-stretcher. No. 1,020,101; Mar. 12; Sp. p. 2335; Gaz. vol. 176; p. 399.
Kinsey, Isaac, *et al.* (See Nagel, William G., assignor.)
Kinsley, Allison S., Scranton, Pa. Knife-rack. No. 1,014,487; Jan. 9; Sp. p. 3075; Gaz. vol. 174; p. 511.
Kinsley, Carl, Chicago, Ill., assignor to Globe Printing Telegraph Company. Telegraphic system and apparatus. No. 1,018,115; Feb. 20; Sp. p. 4188; Gaz. vol. 175; p. 721.
Kinsley, William S. (See Kennedy and Kinsley.)
Kinsting, John H., Monroe, Mich. Detachable base for engines. No. 1,034,250; July 30; Gaz. vol. 180; p. 1313.
Kintner, Alcuin E., Painesville, Ohio. Traction-increasing and safety device. No. 1,024,084; Apr. 23; Sp. p. 4955; Gaz. vol. 177; p. 877.
Kintner, Charles J. (See Rennerfelt, Gustaf, assignor.)
Kintner, Charles J., New York, N. Y. Syringe adapted to use liquids under pressure. No. 1,036,262; Aug. 20; Gaz. vol. 181; p. 702.
Kintner, Samuel M., *et al.*, receivers. (See Fessenden, Reginald A., assignor.)
Kinyon, Robert D., Chicago, Ill. Barrel-forming machine. No. 1,044,664; Nov. 19; Gaz. vol. 184; p. 625.
Kinzer, John J., assignor to Pittsburgh Brake Shoe Company, Pittsburgh, Pa. Brake-shoe. No. 1,024,265; Apr. 23; Sp. p. 5386; Gaz. vol. 177; p. 943.
Kinzer, John J., Wildwood, assignor to Pittsburgh Brake Shoe Company, Pittsburgh, Pa. Brake-shoe. No. 1,044,786; Nov. 19; Gaz. vol. 184; p. 670.
Kinzer, John J., Wildwood, assignor to Pittsburgh Brake Shoe Company, Pittsburgh, Pa. Brake-shoe. No. 1,045,564; Nov. 26; Gaz. vol. 184; p. 968.
Kinzer, John J., Wildwood, assignor to Pittsburgh Brake Shoe Company, Pittsburgh, Pa. Brake-shoe. No. 1,046,423; Dec. 3; Gaz. vol. 185; p. 218.
Kip, Charlotte B. W., Montclair, N. J. Practice-ball. No. 1,014,233; Jan. 9; Sp. p. 2545; Gaz. vol. 174; p. 425.
Kip, Frederic E., Montclair, N. J. Photograph-holder. No. 1,024,583; Apr. 30; Sp. p. 6125; Gaz. vol. 177; p. 1084.

Alphabetical list of patentees—Continued.

Kipp, Charles M., Marysville, Cal. Anticreeping tie-plate. No. 1,044,396; Nov. 12; Gaz. vol. 184; p. 502.
Kippe, Otto. (See Hoering and Kippe.)
Kiralfy, Imre, South Kensington, London, England. Amusement device. No. 1,041,299; Oct. 15; Gaz. vol. 183; p. 616.
Kiralfy, Imre, South Kensington, London, England. Amusement or transporting device. No. 1,043,846; Nov. 12; Gaz. vol. 184; p. 312.
Kirby Equipment Company. (See Woodman, George A., assignor.)
Kirby, Frank A., assignor to Kirby Motorcar Company, Detroit, Mich. Power-transmitting mechanism for motor-vehicles. No. 1,027,736; May 28; Sp. p. 5775; Gaz. vol. 178; p. 1006.
Kirby, Frederick E. (See Anderson and Kirby.)
Kirby, Jerry A., Brooklyn, N. Y. Adjustable furniture. No. 1,044,057; Nov. 12; Gaz. vol. 184; p. 386.
Kirby, John, Douglas, Ariz. Trolley-wire switch or frog. No. 1,040,212; Oct. 1; Gaz. vol. 183; p. 182.
Kirby, John, and J. Mayo, Douglas, Ariz. Trolley-wire connector. No. 1,016,016; Jan. 30; Sp. p. 6426; Gaz. vol. 174; p. 1118.
Kirby Motorcar Company. (See Kirby, Frank A., assignor.)
Kirby, Robert C., assignor to A. I. Wood, Rockford, Ill. Bolt and nut lock. No. 1,023,430; Apr. 16; Sp. p. 3577; Gaz. vol. 177; p. 636.
Kirby, Walter S., Georgetown, S. C., assignor to The Lidgerwood Manufacturing Company. Log connection for hauling-lines. No. 1,025,472; May 7; Sp. p. 817; Gaz. vol. 178; p. 127.
Kirch, Hermann K., and O. E. Clauss, Chicago, Ill. Game apparatus. No. 1,030,664; June 25; Sp. p. 5872; Gaz. vol. 179; p. 1004.
Kirchhoff, William G., St. Louis, Mo. Wedge-key. No. 1,025,278; May 7; Sp. p. 372; Gaz. vol. 178; p. 60.
Kirchmer, Jacob, Jr., Elmwood Place, Ohio. Combination kitchen utensil. No. 1,035,198; Aug. 13; Gaz. vol. 181; p. 297.
Kirchner, Charles W. (See Olszewski, Valentine J., assignor.)
Kirchner, Henry W., assignor to River & Rail Transportation Company, St. Louis, Mo. Removable and interchangeable unit for freight-cars. No. 1,026,752; May 21; Sp. p. 3647; Gaz. vol. 178; p. 634.
Kirchner, Louis A. (See Liberty and Kirchner.)
Kirchner, Walter, assignor to The Chemische Fabrik Grünau Landshoff and Meyer, Aktiengesellschaft, Grünau, near Berlin, Germany. Manufacture of barium oxid. No. 1,047,077; Dec. 10; Gaz. vol. 185; p. 480.
Kirk, Henry C., Jr., Baltimore, Md. Thrust-bearing. No. 1,044,468; Nov. 12; Gaz. vol. 184; p. 526.
Kirk, Jesse S., assignor to W. H. Morgan, Alliance, Ohio. Metal ties for railways. No. 1,028,223; June 4; Sp. p. 365; Gaz. vol. 179; p. 51.
Kirk-Latty Manufacturing Company, The. (See Sleffel, William J., assignor.)
Kirk, Richard A. (See Poppert, Lillian, assignor.)
Kirk, Wallace R., Kansas City, Mo. Railway drop-switch. No. 1,045,798; Nov. 26; Gaz. vol. 184; p. 1049.
Kirke, Percy S. (See Morris and Kirke.)
Kirkendall, Emit A., Baker, Oreg. Staple. No. 1,024,008; Apr. 23; Sp. p. 4793; Gaz. vol. 177; p. 851.
Kirkham, Arthur. (See Thomsen and Kirkham.)
Kirkhuff, Marshall N., assignor to Oliver Chilled Plow Works, South Bend, Ind. Cultivator. No. 1,025,749; May 7; Sp. p. 1414; Gaz. vol. 178; p. 222.
Kirkhuff, Marshall N., assignor to Oliver Chilled Plow Works, South Bend, Ind. Cultivator. No. 1,025,874; May 7; Sp. p. 1689; Gaz. vol. 178; p. 264.
Kirkland, Martin W., Abbeville, Ala. Car-coupling. No. 1,027,207; May 21; Sp. p. 4709; Gaz. vol. 178; p. 791.
Kirkley, Joseph, and F. A. White, Augusta, Ga. Umbrella structure. No. 1,029,449; June 11; Sp. p. 3009; Gaz. vol. 179; p. 504.
Kirkman, Karl F., Erie, Pa., assignor to Automatic Press Feeder Company, Chicago, Ill. Printing-press. No. 1,025,194; May 7; Sp. p. 184; Gaz. vol. 178; p. 32.
Kirkman, Karl F., assignor, by mesne assignments, to Automatic Press Feeder Company, Chicago, Ill. Printing-press. No. 1,031,344; July 2; Gaz. vol. 180; p. 174.
Kirkman, Karl F., assignor, by mesne assignments, to Automatic Press Feeder Company, Chicago, Ill. Printing-press. No. 1,031,345; July 2; Gaz. vol. 180; p. 175.
Kirkman, Wilbert T., assignor of one-half to J. E. Stevens, Seattle, Wash. Garbage-can cover. No. 1,043,774; Nov. 5; Gaz. vol. 184; p. 255.
Kirkpatrick, Charles C., *et al.* (See Matthews, Robert E., assignor.)
Kirkpatrick, Chas. D. (See Sheaffer, Oliver, assignor.)
Kirkpatrick, Clifford P. (See Kirkpatrick, Robbins, and Kirkpatrick.)
Kirkpatrick, John S. (See Lamar, William J., assignor.)
Kirkpatrick, Orville C., Dallas City, Ill. Bag-holder. No. 1,037,265; Sept. 3; Gaz. vol. 182; p. 30.
Kirkpatrick, William A., and C. E. Poorman, Abbyville, Kans. Dispensing-container. No. 1,039,756; Oct. 1; Gaz. vol. 183; p. 29.
Kirkpatrick, William A., J. E. Robbins, and C. P. Kirkpatrick, Greensburg, Ind. Piano-bench. No. 1,037,266; Sept. 3; Gaz. vol. 182; p. 30.
Kirksey, John R., Dysortville, N. C. Envelop. No. 1,023,382; Apr. 16; Sp. p. 3481; Gaz. vol. 177; p. 621.
Kirkwood, James C. P., assignor to H. D. Vickery, Wellington, New Zealand. Means for regulating the temperature of electrical heating and cooking apparatus. No. 1,025,576; May 7; Sp. p. 1063; Gaz. vol. 178; p. 164.
Kirkwood, William, Chicago, Ill. Blowpipe. No. 1,029,691; June 18; Sp. p. 3516; Gaz. vol. 179; p. 624.
Kirkwood, William, Chicago, Ill. Gas-generator. No. 1,029,692; June 18; Sp. p. 3518; Gaz. vol. 179; p. 624.
Kirkwood, William H., Vandergrift Heights, Pa. Switch. No. 1,026,680; May 21; Sp. p. 3500; Gaz. vol. 178; p. 611.
Kirner, Josef, assignor to "Norma" Company G. m. b. H., Stuttgart, Germany. Machine for grinding rollers and the like. No. 1,033,021; July 16; Gaz. vol. 180; p. 830.
Kirschner, Carl A., Solingen, Germany. Support for work-pieces for grinding helical concave surfaces in blades. No. 1,039,294; Sept. 24; Gaz. vol. 182; p. 804.
Kirshen, Solomon, Butte, Mont. Rule-pocket for garments. No. 1,036,859; Aug. 27; Gaz. vol. 181; p. 937.
Kirstein, Henry E., assignor to E. Kirstein Sons Co., Rochester, N. Y. Eyeglasses. No. 1,017,004; Feb. 13; Sp. p. 1722; Gaz. vol. 175; p. 300.
Kirtley, Simeon B., Columbia, Mo. Index for loose-leaf records and the like. No. 1,023,941; Apr. 23; Sp. p. 4664; Gaz. vol. 177; p. 829.
Kirton, Charles, Fairhaven, and W. J. Schillinger, Millvale, Pa. Ice-creeper. No. 1,045,565; Nov. 26; Gaz. vol. 184; p. 969.
Kiser, Michael L. (See Webb, George L., assignor.)
Kish, Arpath, and J. A. Henry, Port Vue, Pa. Curtain-pole. No. 1,020,988; Mar. 26; Sp. p. 4224; Gaz. vol. 176; p. 784.
Kisić, Risto, Mostar, Austria-Hungary. Culinary machine. No. 1,045,039; Nov. 19; Gaz. vol. 184; p. 756.
Kiso, Henry K., New York, N. Y. Match box and igniter. No. 1,020,357; Mar. 12; Sp. p. 2849; Gaz. vol. 176; p. 482.
Kissel, Bernard L., Joplin, Mo. Blowpipe. No. 1,028,363; June 4; Sp. p. 659; Gaz. vol. 179; p. 99.
Kissel, William H., Omaha, Nebr. Automatic feeding mechanism for ground alfalfa. No. 1,031,073; July 2; Gaz. vol. 180; p. 80.
Kissel, William L., Hartford, Wis., assignor to Sears, Roebuck & Company, Chicago, Ill. Mechanical movement. No. 1,035,604; Aug. 13; Gaz. vol. 181; p. 437.
Kissel, William L., Hartford, Wis., assignor to Sears, Roebuck & Company, Chicago, Ill. Sprocket-wheel clip. No. 1,047,239; Dec. 17; Gaz. vol. 185; p. 569.
Kissinger, George B., Aspinwall, Pa. Pipe-coupling. No. 1,026,211; May 14; Sp. p. 2485; Gaz. vol. 178; p. 416.
Kissinger, James M., and S. H. J. Heffner, Pottsville, Pa. Fence-post. No. 1,024,858; Apr. 30; Sp. p. 6712; Gaz. vol. 177; p. 1182.
Kistler, Jonathan, *et al.* (See Bremer, Russell H., assignor.)
Kistler, R. F. (See Baber, James M., assignor.)
Kistler, Ralph P., Ponca, Okla. Electric railway-signal. No. 1,032,913; July 16; Gaz. vol. 180; p. 794.
Kistner, Frederick N. (See Hardie and Kistner.)
Kita, Andy, Epton, Pa. Electric rat-trap. No. 1,034,251; July 30; Gaz. vol. 180; p. 1314.
Kitak, Joseph, Brighton, Wash. Folding chair. No. 1,029,067; June 11; Sp. p. 2164; Gaz. vol. 179; p. 372.
Kitchen, Emanuel W., Solebury, Pa. Potato-planter. No. 1,034,017; July 30; Gaz. vol. 180; p. 1233.
Kitchen, Jacob H., and W. Stiller, assignors to Akard Door Opener Company, San Francisco, Cal. Door-opener. No. 1,042,800; Oct. 29; Gaz. vol. 183; p. 1189.
Kitchen, John F. (See Beeman and Kitchen.)
Kitchen, John F., assignor to The Spirella Company, Meadville, Pa. Machine for uncoiling and straightening metal strips. No. 1,047,240; Dec. 17; Gaz. vol. 185; p. 570.
Kitchen, John G. A., Lancaster, and I. H. Storey, Ambleside, England. Lantern for vehicles. No. 1,033,253; July 23; Gaz. vol. 180; p. 949.
Kitchen, Joseph M. W., East Orange, N. J. Heating system. No. 1,024,788; Apr. 30; Sp. p. 6574; Gaz. vol. 177; p. 1157.
Kitchen, Joseph M. W., East Orange, N. J. Making and preserving butter. No. 1,026,918; May 21; Sp. p. 4034; Gaz. vol. 178; p. 692.
Kitchen, Joseph M. W., East Orange, N. J. Means for economizing heat. No. 1,028,030; May 28; Sp. p. 6435; Gaz. vol. 178; p. 1104.
Kitchen, Joseph M. W., East Orange, N. J. Gas-making apparatus. No. 1,039,959; Oct. 1; Gaz. vol. 183; p. 96.
Kitchen, Joseph M. W., East Orange, N. J. Method and means for utilizing fuel-wastes and generating power. No. 1,041,810; Oct. 22; Gaz. vol. 183; p. 824.
Kitchen, Joseph M. W., East Orange, N. J. Means for economizing heat in power plants. No. 1,043,847; Nov. 12; Gaz. vol. 184; p. 312.

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Kitchen, Joseph M. W., East Orange, N. J. Method of and means for generating power. No. 1,046,308; Dec. 3; Gaz. vol. 185; p. 178.
Kitchenette Company, The. (See Perew and Rogers, assignors.)
Kitlitschko, Frank, Milwaukee, assignor to Waverley Manufacturing Company, Jefferson, Wis. Spring-frame for velocipedes. No. 1,028,470; June 4; Sp. p. 896; Gaz. vol. 179; p. 135.
Kitsee, Isidor, Philadelphia, Pa. Electric transmission of intelligence. No. 1,015,494; Jan. 23; Sp. p. 5318; Gaz. vol. 174; p. 911.
Kitsee, Isidor, Philadelphia, Pa. Electric illumination. No. 1,017,263; Feb. 13; Sp. p. 2301; Gaz. vol. 175; p. 391.
Kitsee, Isidor, Philadelphia, Pa. Printing telegraphy. No. 1,024,205; Apr. 23; Sp. p. 5254; Gaz. vol. 177; p. 921.
Kitsee, Isidor, Philadelphia, Pa. Phonography. No. 1,040,213; Oct. 1; Gaz. vol. 183; p. 182.
Kitsee, Isidor, Philadelphia, Pa. Protecting kinematographic films. No. 1,042,801; Oct. 29; Gaz. vol. 183; p. 1190.
Kitsee, Isidor, assignor of one-half to W. J. Latta, Philadelphia, Pa. Cable duplex repeating system. No. 1,014,488; Jan. 9; Sp. p. 3077; Gaz. vol. 174; p. 511.
Kitsee, Isidor, assignor of one-half to W. J. Latta, Philadelphia, Pa. Telegraphy. No. 1,037,927; Sept. 10; Gaz. vol. 182; p. 285.
Kitsee, Isidor, assignor of one-half to W. J. Latta, Philadelphia, Pa. Cable telegraphy. No. 1,044,189; Nov. 12; Gaz. vol. 184; p. 430.
Kitselman, Alva L., Muncie, Ind. Wire-weaving machine. No. 1,014,599; Jan. 9; Sp. p. 3282; Gaz. vol. 174; p. 547.
Kitselman, Alva L., Reno, Nev. Wire-fence machine. No 1,047,078; Dec. 10; Gaz. vol. 185; p. 480.
Kitselman Brothers. (See Haisley, Charles H., assignor.)
Kitson Machine Shop. (See Perham, Haven C., assignor.)
Kitson Machine Shop. (See Whittier, John K., assignor.)
Kitterman, George W., Berwyn, assignor of one-half to M. D. Matteson, Chicago, Ill. Tire. No. 1,014,007; Jan. 9; Sp. p. 2051; Gaz. vol. 174; p. 346.
Kittle, Charles R. and H. M., Los Angeles, Cal. Spring-fork for wheeled vehicles. No. 1,036,263; Aug. 20; Gaz. vol. 181; p. 702.
Kittle, Hubert M. (See Kittle, Charles R. and H. M.)
Kitton, John C., Elgin, Ill. Compressor. No. 1,039,757; Oct. 1; Gaz. vol. 183; p. 30.
Kittredge & Company, F. L. (See Kittredge, Frederic L., assignor.)
Kittredge, Frederic L., assignor to F. L. Kittredge & Company, Chicago, Ill. Burner. No. 1,047,241; Dec. 17; Gaz. vol. 185; p. 570.
Kittredge, Rufus J., Chicago, Ill., assignor to D. S. Watson, Canastota, N. Y. Closure for floor-openings. No. 1,021,535; Mar. 26; Sp. p. 5396; Gaz. vol. 176; p. 971.
Kittrell, Thomas B., Mobile, Ala. Station-indicator. No. 1,047,079; Dec. 10; Gaz. vol. 185; p. 480.
Kitts, Jacob B., Sr., Darby, Pa. Seal-plug. No. 1,030,309; June 25; Sp. p. 4906; Gaz. vol. 179; p. 875.
Kivell, Edward J., Newton, Mass. Ball-cock. No. 1,037,638; Sept. 3; Gaz. vol. 182; p. 155.
Kjellman, Rudolf H., assignor to Nya Aktiebolaget Stockholms Vapenfabrik, Stockholm, Sweden. Automatic firearm. No. 1,040,692; Oct. 8; Gaz. vol. 183; p. 381.
Klaber, Augustus D., London, England. Letter-copying apparatus. No. 1,030,310; June 25; Sp. p. 4907; Gaz. vol. 179; p. 876.
Klaber, Emile A., New York, N. Y. Letter-copying apparatus. No. 1,028,885; June 11; Sp. p. 1770; Gaz. vol. 179; p. 309.
Klaber, Emile A., London, England. Letter-copying apparatus. No. 1,047,242; Dec. 17; Gaz. vol. 185; p. 570.
Klages, August, and H. Vollberg, Salbke, Germany. Making chlorosulfonic acid. No. 1,013,181; Jan. 2; Sp. p. 182; Gaz. vol. 174; p. 32.
Klaphecke, Paul W., Ellicott City, Md. Swimming-shoe. No. 1,013,403; Jan. 2; Sp. p. 692; Gaz. vol. 174; p. 110.
Klapheke, Edward W. (See. Wright, Clarence E., assignor.)
Klaren, Mathias, Lawton, Okla. Dough-raising cabinet. No. 1,042,235; Oct. 22; Gaz. vol. 183; p. 966.
Klasing, Augustus F., San Antonio, Tex. Car-brake. No. 1,016,332; Feb. 6; Sp. p. 220; Gaz. vol. 175; p. 33.
Klasnick, John, Roundup, Mont. Car-brake. No. 1,034,252; July 30; Gaz. vol. 180; p. 1314.
Klatzl, John C. (See Stubbe, Frederick H., assignor.)
Klauder-Weldon Dyeing Machine Company. (See Duell, William S., assignor.)
Klaus, Frederick R. (See Heinsohn, Edwards, and Klaus.)
Klaus, William F., Louisville, Ky. Safety-crane. No. 1,016,417; Feb. 6; Sp. p. 404; Gaz. vol. 175; p. 63.
Kleber, Moritz. (See Lauf and Kleber.)
Kleber, Peter, Wiesbaden, Germany, assignor of one-half to H. Zirwas, Yonkers, N. Y. Incandescent-lamp socket. No. 1,015,963; Jan. 30; Sp. p. 6315; Gaz. vol. 174; p. 1099.
Kleckner, Harry T., Shamokin, assignor of one-half to I. Reber, Winfield, Pa. Metallic railway-tie and fastening. No. 1,014,489; Jan. 9; Sp. p. 3080; Gaz. vol. 174; p. 512.
Klee, Heinrich, Klausthal, Germany. Manufacture of plates from fibrous substances like asbestos and hydraulic binding substances. No. 1,039,413; Sept. 24; Gaz. vol. 182; p. 845.
Kleeberg, Philip. (See Smith and Kleeberg.)
Kleemann, Georg, Stuttgart, Germany. Machine for making brushes. No. 1,038,763; Sept. 17; Gaz. vol. 182; p. 605.
Klees, William F., Scranton, Pa. Radiator. No. 1,014,828; Jan. 16; Sp. p. 3879; Gaz. vol. 174; p. 658.
Kleffman, Ray C., assignor of one-third to W. Seafield, Ironton, Minn. Rod-clamp. No. 1,048,705; Dec. 31; Gaz. vol. 185; p. 1142.
Kleihauer, Henry G., Akron, Iowa. Draft-equalizer. No. 1,040,352; Oct. 8; Gaz. vol. 183; p. 258.
Klein, Adolph. (See Wills, Donald R., assignor.)
Klein, Albert, New York, N. Y. Non-refillable bottle. No. 1,019,659; Mar. 5; Sp. p. 1432; Gaz. vol. 176; p. 220.
Klein, Albert S., St. Louis, Mo. Container for the aging of whisky. No. 1,014,883; Jan. 16; Sp. p. 4006; Gaz. vol. 174; p. 677.
Klein, Albin, Erfurt, assignor to J. A. John Aktiengesellschaft, Erfurt-Ilversgehofen, Germany. Roof-light. No. 1,021,782; Apr. 2; Sp. p. 58; Gaz. vol. 177; p. 12.
Klein, Alexander, Berlin, Germany. Producing derivatives of cantharidic acid containing iodin and mercury. No. 1,017,560; Feb. 13; Sp. p. 2915; Gaz. vol. 175; p. 493.
Klein, Alvin A., *et al.* (See Gipple, Roy E., assignor.)
Klein, Benjamin F., Chicago, Ill. Match-box holder. No. 1,037,022; Aug. 27; Gaz. vol. 181; p. 991.
Klein, Charles J., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Lamp-socket. No. 1,038,151; Sept. 10; Gaz. vol. 182; p. 359.
Klein, Charles M., Millerville, Minn. Fly-poison cage. No. 1,026,681; May 21; Sp. p. 3501; Gaz. vol. 178; p. 611.
Klein, Christian F., deceased, (W. Klein, administratrix,) and E. A. Pyles, assignors of one-half to said C. F. Klein, one-fourth to said E. A. Pyles, and one-fourth to J. E. Pyles, Baltimore, Md. Fire-alarm-box mechanism. No. 1,049,308; Dec. 31; Gaz. vol. 185; p. 1349.
Klein, Daniel, Spokane, Wash., assignor to D. H. Burrell & Co., Little Falls, N. Y. Milking-machine. No. 1,024,859; Apr. 30; Sp. p. 6714; Gaz. vol. 177; p. 1182.
Klein, Fred J., New York, N. Y. Pencil and pen clip. No. 1,039,758; Oct. 1; Gaz. vol. 183; p. 30.
Klein, Frederick, New York, N. Y. Flash-light apparatus. No. 1,047,243; Dec. 17; Gaz. vol. 185; p. 571.
Klein, George C., Akron, Ohio. Link door-check. No. 1,029,693; June 18; Sp. p. 3520; Gaz. vol. 179; p. 624.
Klein, Henry C., Sr., and E. R. Penrose, Logansport, Ind., assignors to Buda Foundry & Manufacturing Company, Chicago, Ill. Lifting-jack. No. 1,039,960; Oct. 1; Gaz. vol. 183; p. 96.
Klein, John J., Scranton, Pa. Crape-holder. No. 1,018,326; Feb. 20; Sp. p. 4618; Gaz. vol. 175; p. 793.
Klein, Louis, Strassburg, Germany. Decaffeinating coffee-beans. No. 1,039,961; Oct. 1; Gaz. vol. 183; p. 96.
Klein, Mathias J., assignor of sixty one-hundredths to H. B. Roelker, New York, N. Y. Balanced speedometer. No. 1,018,504; Feb. 27; Sp. p. 5034; Gaz. vol. 175; p. 886.
Klein, Mathias J., assignor of sixty one-hundredths to H. B. Roelker, New York, N. Y. Distance and speed meter. No. 1,019,007; Feb. 27; Sp. p. 6164; Gaz. vol. 175; p. 1058.
Klein, Nathan, New York, N. Y., assignor, by mesne assignments, to Harvey Hubbell, Incorporated, Bridgeport, Conn. Attachment for incandescent-lamp sockets. No. 1,015,897; Jan. 30; Sp. p. 6172; Gaz. vol. 174; p. 1076.
Klein, Peter, Erie, Pa. Hotel-record-card system. No. 1,040,550; Oct. 8; Gaz. vol. 183; p. 327.
Klein, Wilhelmina, administratrix. (See Klein and Pyles.)
Klein, William E., Chicago, Ill. Door-alarm. No. 1,041,811; Oct. 22; Gaz. vol. 183; p. 825.
Kleinatland, August, assignor to Atlantic Punctureless Tire Co., Paterson, N. J. Vehicle-tire. No. 1,029,569; June 11; Sp. p. 3247; Gaz. vol. 179; p. 545.
Kleinbaum, Elihu N., Brooklyn, N. Y. Pay-as-you-enter door. No. 1,022,684; Apr. 9; Sp. p. 1978; Gaz. vol. 177; p. 343.
Kleinbaum, Elihu N., Brooklyn, N. Y. Change-making apparatus. No. 1,036,645; Aug. 27; Gaz. vol. 181; p. 865.
Kleinewefers, Johannes, assignor to J. Kleinewefers Söhne, Krefeld, Germany. Revolver cotton-mercerizing machine. No. 1,038,152; Sept. 10; Gaz. vol. 182; p. 360.
Kleinewefers Söhne, Joh. (See Kleinewefers, Johannes, assignor.)
Kleinhesselink, Arie, Orange City, Iowa. Bracket for current-conducting wires. No. 1,048,706; Dec. 31; Gaz. vol. 185; p. 1143.

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Kleinknecht, Emanuel, assignor to Holley-Mason Hardware Company, Spokane, Wash. Fuel-chute and locking device therefor. No. 1,047,244; Dec. 17; Gaz. vol. 185; p. 571.
Kleinman, Jacob L., New York, N. Y. Brake mechanism for sewing-machines. No. 1,021,750; Mar. 26; Sp. p. 5808; Gaz. vol. 176; p. 1042.
Kleinmann, Leo. (See Borsodi, Morris, assignor.)
Kleinmark, Henry, assignor to J. L. Bondy Iron Works Co., Chicago, Ill. Counterbalanced stair. No. 1,018,197; Feb. 20; Sp. p. 4369; Gaz. vol. 175; p. 750.
Kleinschmidt, Carl G., Herne, Germany. Wheel-rim for pneumatic tires. No. 1,021,783; Apr. 2; Sp. p. 59; Gaz. vol. 177; p. 13.
Kleinschmidt, Carl G., Herne, Germany. Sliding stop-valve. No. 1,029,615; June 18; Sp. p. 3348; Gaz. vol. 179; p. 596.
Kleinschmidt, Edward E., New York, N. Y. Electrical relay. No. 1,014,600; Jan. 9; Sp. p. 3294; Gaz. vol. 174; p. 548.
Kleinschmidt, Edward E., Brooklyn, N. Y. Telegraphic-tape perforator. No. 1,045,855; Dec. 3; Gaz. vol. 185; p. 21.
Kleinvogel, Friedrich, Newport, Ky. Driving mechanism for machines and vehicles. No. 1,036,264; Aug. 20; Gaz. vol. 181; p. 703.
Klell, Albert, West Park, assignor of one-half to H. Baracs, Cleveland, Ohio. Convertible automobile. No. 1,024,634; Apr. 30; Sp. p. 6259; Gaz. vol. 177; p. 1102.
Klement, Wilhelm, Neu-Finkenkrug-Falkenhain, assignor to Siemens-Schuckert Werke, G. m. b. H., Berlin, Germany. Lamp-holder. No. 1,023,942; Apr. 23; Sp. p. 4666; Gaz. vol. 177; p. 829.
Klemmer, Daniel, Detroit, Mich. Beet-topper. No. 1,046,198; Dec. 3; Gaz. vol. 185; p. 137.
Klemmer, Joseph E. (See Gerlemann and Klemmer.)
Klemovics, Janos, assignor of one-fourth to J. Pentek, one-fourth to B. Kun, and one-fourth to B. Kojsza, Homestead, Pa. Electric trap. No. 1,017,875; Feb. 20; Sp. p. 3643; Gaz. vol. 175; p. 636.
Klenk, Gottlieb, Defiance, Ohio, assignor to The Defiance Pressed Steel Company. Sheet-metal box. No. 1,015,234; Jan. 16; Sp. p. 4716; Gaz. vol. 174; p. 795.
Klenke Cushion Axle Company. (See Klenke, Theodore A., assignor.)
Klenke, Theodore A., New York, N. Y., assignor to Klenke Cushion Axle Company. Cushioning device for vehicles. No. 1,028,740; June 4; Sp. p. 1451; Gaz. vol. 179; p. 224.
Klersy, Peter H., New York, N. Y. Snell-fastener. No. 1,047,654; Dec. 17; Gaz. vol. 185; p. 718.
Klesa, Albert H., Wilkinsburg, Pa. Porch-swing and the like. No. 1,025,212; May 14; Sp. p. 2488; Gaz. vol. 178; p. 416.
Klett, Henry G., assignor to T. Haebler and J. Torres, trustees, New York, N. Y. Machine for feeding and capping bottles. No. 1,033,597; July 23; Gaz. vol. 180; p. 1062.
Klett, Hugo, Ilmenau, Germany. Stopper for vacuum-insulated vessels. No. 1,019,660; Mar. 5; Sp. p. 1434; Gaz. vol. 176; p. 221.
Klett, Jacob, New York, N. Y. Bilge-water ejector. No. 1,035,199; Aug. 13; Gaz. vol. 181; p. 297.
Kley, Cornelius A., Greensburg, Pa. Horseshoe. No. 1,040,353; Oct. 8; Gaz. vol. 183; p. 259.
Kliber, William C., assignor to L. St. James, Federalsburg, Md. Axle-nut wrench. No. 1,048,707; Dec. 31; Gaz. vol. 185; p. 1143.
Kliegl, John H., New York, N. Y. Cable-clamp. No. 1,041,300; Oct. 15; Gaz. vol. 183; p. 617.
Klimsch & Co. (See Schumacher, Peter, assignor.)
Kline, Albert H., assignor to Curtis and Jones Company, Reading, Pa. Shoe-lasting-pincer mechanism. No. 1,039,544; Sept. 24; Gaz. vol. 182; p. 892.
Kline, Alvy W., Oklahoma, Okla. Combination pointer and jointer for stone and brick layers. No. 1,014,650; Jan. 16; Sp. p. 3481; Gaz. vol. 174; p. 597.
Kline, Amos G. and C. A., New Memphis, Ill. Conveyer. No. 1,022,244; Apr. 2; Sp. p. 1046; Gaz. vol. 177; p. 166.
Kline, Charles A. (See Kline, Amos G. and C. A.)
Kline, Jacob Y., Florin, Pa. Lifting-jack. No. 1,024,860; Apr. 30; Sp. p. 6716; Gaz. vol. 177; p. 1182.
Kline, Martin L., Agricola, Kans. Fuel-oil burner. No. 1,031,450; July 2; Gaz. vol. 180; p. 209.
Kline, Peter D. (See Anderson, John L., assignor.)
Kline, Rudolph D., Streator, Ill. Greenhouse. No. 1,035,605; Aug. 13; Gaz. vol. 181; p. 438.
Kline, Wallace C., Buffalo, N. Y., assignor to C. S. Marsh, Winchester, Mass. Platform weighing-scale. No. 1,017,154; Feb. 13; Sp. p. 2060; Gaz. vol. 175; p. 354.
Kline, William H., Herscher, Ill. Plow. No. 1,019,900; Mar. 12; Sp. p. 1917; Gaz. vol. 176; p. 333.
Kling, Alpha H., and B. D. Horton, assignors to Detroit Fuse & Manufacturing Company, Detroit, Mich. Electrical switch. No. 1,022,629; Apr. 9; Sp. p. 1849; Gaz. vol. 177; p. 323.
Kling, Louis A. (See Senter and Kling.)
Kling, Louis A., Elizabeth, N. J., assignor to The J. G. Brill Company, Philadelphia, Pa. Car-ventilator. No. 1,046,309; Dec. 3; Gaz. vol. 185; p. 178.
Kling, Louis A., Elizabeth, N. J., assignor to The J. G. Brill Company, Philadelphia, Pa. Car-ventilator. No. 1,046,310; Dec. 3; Gaz. vol. 185; p. 179.
Kling, Orlando, Denver, Colo. Collapsible case. No. 1,045,412; Nov. 26; Gaz. vol. 184; p. 913.
Klingbiel, Carl, Duisburg, Germany. Making phosphates of potash and ammonia. No. 1,020,293; Mar. 12; Sp. p. 2733; Gaz. vol. 176; p. 463.
Klinger, Richard, Gumpoldskirchen, Austria-Hungary. Lubricating-oil pump. No. 1,030,665; June 25; Sp. p. 5874; Gaz. vol. 179; p. 1004.
Klingler, George H. and W. H., Emlenton, Pa., assignors of one-half to Wright Wire Company, Worcester, Mass. Splice between Manila and wire cables. No. 1,026,869; May 21; Sp. p. 3903; Gaz. vol. 178; p. 674.
Klingler, Victor O., Slayton, Minn. Scale. No. 1,015,190; Jan. 16; Sp. p. 4630; Gaz. vol. 174; p. 780.
Klingler, William H. (See Klingler, George H. and W. H.)
Klingloff, Andrew R., Roslindale, Mass. Self-setting packing. No. 1,044,787; Nov. 19; Gaz. vol. 184; p. 670.
Klipfel, Thomas, Chicago, and J. F. Hansen, Evanston, assignors to Union Wire Mattress Company, Chicago, Ill. Spring and couch fabric. No. 1,045,856; Dec. 3; Gaz. vol. 185; p. 21.
Klobusiak, Michael, Linwood, W. Va. Animal-trap. No. 1,027,854; May 28; Sp. p. 6077; Gaz. vol. 178; p. 1047.
Klock, George W., Chillicothe, Tex. Lawn-mower. No. 1,013,182; Jan. 2; Sp. p. 183; Gaz. vol. 174; p. 32.
Klocko, John M., South Chicago, Ill. Fire-escape. No. 1,040,354; Oct. 8; Gaz. vol. 183; p. 259.
Kloeker, John B., Loramie, Ohio. Shaft-support. No. 1,021,684; Mar. 26; Sp. p. 5661; Gaz. vol. 176; p. 1019.
Kloetzer, Otto B., Columbus, Ohio. Combination coal grading screen and picker table. No. 1,032,612; July 16; Gaz. vol. 180; p. 691.
Kloiber, Josef, Oregon City, Oreg. Making patterns for the manufacture of paper containing water-marks of various designs. No. 1,041,301; Oct. 15; Gaz. vol. 183; p. 617.
Klonower, Oscar, Philadelphia, Pa. Door attachment. No. 1,036,646; Aug. 27; Gaz. vol. 181; p. 866.
Klopfer, Friedrich A. V., Leubnitz, near Dresden, Germany. Production of starch and gluten from wheat-flour. No. 1,013,497; Jan. 2; Sp. p. 895; Gaz. vol. 174; p. 142.
Klopfer, Otto. (See Kemmler, John A., assignor.)
Klopping, Adolph C., assignor of one-half to The Toledo Parlor Furniture Company, Toledo, Ohio. Bed-davenport. No. 1,034,253; July 30; Gaz. vol. 180; p. 1314.
Klossner, Charles and J. P., Westernville, N. Y. Baking utensil. No. 1,017,561; Feb. 13; Sp. p. 2916; Gaz. vol. 175; p. 493.
Klossner, John P. (See Klossner, Charles and J. P.)
Kloth, Gerhard. (See Daniček, Černovský, and Kloth.)
Klotz, Alfred, Munich, Germany. Hot-air bath. No. 1,039,962; Oct. 1; Gaz. vol. 183; p. 97.
Klotz, Peter G., assignor to Hinde & Dauch Paper Company, Sandusky, Ohio. Machine for manufacturing paper-board. No. 1,026,870; May 21; Sp. p. 3905; Gaz. vol. 178; p. 675.
Klotz, Peter G., assignor to The Hinde and Dauch Paper Company, Sandusky, Ohio. Machine for manufacturing paper boxes and cartons. No. 1,046,078; Dec. 3; Gaz. vol. 185; p. 96.
Klug, William, Plaza, N. D. Swinging and rolling colter. No. 1,035,450; Aug. 13; Gaz. vol. 181; p. 386.
Kluge, Gustav A., Chicago, Ill. Dust-collector. No. 1,023,082; Apr. 9; Sp. p. 2826; Gaz. vol. 177; p. 481.
Kluge, Otto, Golconda, Ill. Vertical cutter attachment for mowing-machines. No. 1,015,806; Jan. 30; Sp. p. 5975; Gaz. vol. 174; p. 1045.
Klugel, Oscar G., Indianapolis, Ind. Adjustable block for book-trimming machines. No. 1,035,200; Aug. 13; Gaz. vol. 181; p. 297.
Klupathy, Eugen, and C. Berger, Budapest, Austria-Hungary. Apparatus for submarine telegraphy and signaling. No. 1,036,265; Aug. 20; Gaz. vol. 181; p. 703.
Klusmeyer, Frederick C. W., assignor of one-half to L. Mayer, Mankato, Minn. Life-preserver. No. 1,037,495; Sept. 3; Gaz. vol. 182; p. 109.
Klussman, William G., Irving, Oreg. Poultry-fountain. No. 1,023,658; Apr. 16; Sp. p. 4037; Gaz. vol. 177; p. 708.
Kmunke, Rudolf. (See Hahn, Jan B., assignor.)
Knabe, Ernest J., Jr., Cincinnati, Ohio. Combined fall-cover and music-rack for piano or organ casings. No. 1,020,914; Mar. 19; Sp. p. 4046; Gaz. vol. 176; p. 706.
Knack, Fred, Cleveland, Ohio. Air-coupling valve. No. 1,022,851; Apr. 9; Sp. p. 2354; Gaz. vol. 177; p. 402.
Knaebel, Benedikt, Dusseldorf, Germany. Artillery-cartridge. No. 1,021,685; Mar. 26; Sp. p. 5663; Gaz. vol. 176; p. 1019.
Knapp, Charles N. (See Chase and Van Sickle, assignors.)
Knapp, David R., Philadelphia, Pa. Indicating and protective device. No. 1,023,943; Apr. 23; Sp. p. 4667; Gaz. vol. 177; p. 829.

Alphabetical list of patentees—Continued.

Knapp, David R., Philadelphia, Pa. Indicating and protecting device. No. 1,042,562; Oct. 29; Gaz. vol. 183; p. 1105.
Knapp, Frederick B., Duxbury, Mass. Outlook-table. No. 1,027,855; May 28; Sp. p. 6079; Gaz. vol. 178; p. 1048.
Knapp, Frederick H., assignor to The Fred H. Knapp Company, Westminster, Md. Machine for applying labels to cans or the like. No. 1,038,153; Sept. 10; Gaz. vol. 182; p. 360.
Knapp, George S., La Grange, Ill. Plaster division-strip. No. 1,016,074; Jan. 30; Sp. p. 6567; Gaz. vol. 174; p. 1140.
Knapp, Isaac N., Ardmore, assignor to The United Gas Improvement Company, Philadelphia, Pa. Treating natural gas. No. 1,023,783; Apr. 16; Sp. p. 4249; Gaz. vol. 177; p. 746.
Knapp, John L. (See Becker and Knapp.)
Knapp, Julius, and J. Ligart, Passaic, N. J. Sputum-receptacle. No. 1,017,419; Feb. 13; Sp. p. 2632; Gaz. vol. 175; p. 445.
Knapp, Lucien, *et al.* (See Duval, Louis R., assignor.)
Knapp, Stefan, Detroit, Mich. Chart for teaching the reading of drawings. No. 1,049,241; Dec. 31; Gaz. vol. 185; p. 1325.
Knapp, Theron L., Woodstock, assignor to The Oliver Typewriter Company, Chicago, Ill. Type-writing machine. No. 1,032,685; July 16; Gaz. vol. 180; p. 719.
Knapp, Theron L., Woodstock, assignor to The Oliver Typewriter Company, Chicago, Ill. Type-writing machine. No. 1,046,469; Dec. 10; Gaz. vol. 185; p. 272.
Knapp, William B., Paterson, N. J. Carpenter's bit. No. 1,015,446; Jan. 23; Sp. p. 5205; Gaz. vol. 174; p. 894.
Knapp, William B., Paterson, N. J. Animal-trap. No. 1,016,333; Feb. 6; Sp. p. 222; Gaz. vol. 175; p. 34.
Knapp, William J., Newburg, assignor to The Ohio Varnish Company, Cleveland, Ohio. Graining-tool. No. 1,037,639; Sept. 3; Gaz. vol. 182; p. 155.
Knauff, George C., Chicago, Ill. Terminal for electric wires. No. 1,018,570; Feb. 27; Sp. p. 5234; Gaz. vol. 175; p. 909.
Knauff, George C., Chicago, Ill. Socket for electric lamps. No. 1,021,195; Mar. 26; Sp. p. 4646; Gaz. vol. 176; p. 852.
Knauff, George C., Chicago, Ill. Attachment-plug. No. 1,026,269; May 14; Sp. p. 2596; Gaz. vol. 178; p. 435.
Knauff, George C., Chicago, Ill. Electric switch. No. 1,047,245; Dec. 17; Gaz. vol. 185; p. 571.
Knause, John, assignor of one-half to C. O. Hays, Locust Corner, Ohio. Computing-table. No. 1,037,640; Sept. 3; Gaz. vol. 182; p. 156.
Knauss, Frank V., Portsmouth, Ohio. Fireback for stoves. No. 1,022,630; Apr. 9; Sp. p. 1854; Gaz. vol. 177; p. 324
Knauss, Frank V., Portsmouth, Ohio. Rack-support. No. 1,037,928; Sept. 10; Gaz. vol. 182; p. 286.
Knauss, James E., and C. Phinney, Healdsburg, Cal. Automobile-tire. No. 1,015,690; Jan. 23; Sp. p. 5747; Gaz. vol. 174; p. 979.
Knauss, John, Indianapolis, Ind. Biffle-bag. No. 1,015,028; Jan. 16; Sp. p. 4322; Gaz. vol. 174; p. 727.
Knaust, Henry E., St. Louis, Mo. Bottle-crown shield. No. 1,024,584; Apr. 30; Sp. p. 6126; Gaz. vol. 177; p. 1084.
Knautz, Henry W., Chicago, Ill. Display device. No. 1,034,369; July 30; Gaz. vol. 180; p. 1355.
Kneale, William T. (See Van Ness and Kneale.)
Knecht, Johann J., Chemnitz, Germany. Machine for cutting cards for automatic embroidering-machines. No. 1,027,256; May 21; Sp. p. 4796; Gaz. vol. 178; p. 808.
Knecht, Johann J., assignor to Maschineufabrik Kappel Aktiengesellschaft, Kappel, near Chemnitz, Germany. Card-punching device for automatic embroidery-machines. No. 1,048,416; Dec. 24; Gaz. vol. 185; p. 1002.
Kneen, William, London, England. Pneumatic suspension for vehicles. No. 1,016,418; Feb. 6; Sp. p. 406; Gaz. vol. 175; p. 64.
Kneifel, Fredrick, and T. H. Watt, Barberton, Ohio. Cooking utensil. No. 1,022,245; Apr. 2; Sp. p. 1048; Gaz. vol. 177; p. 167.
Kneisley, Russell, Carrollton, Mo. Trestle. No. 1,015,191; Jan. 16; Sp. p. 4633; Gaz. vol. 174; p. 781.
Kneisly, Daniel W., assignor to The Dayton Telephone Lockout Mfg. Co., Dayton, Ohio. Lock-out device for party-telephones. No. 1,016,277; Feb. 6; Sp. p. 91; Gaz. vol. 175; p. 15.
Kneisly, Daniel W., assignor to The Dayton Telephone Lockout Mfg. Co., Dayton, Ohio. Selective signaling apparatus. No. 1,035,971; Aug. 20; Gaz. vol. 181; p. 598.
Kneisly, Daniel W., assignor to The Dayton Telephone Lockout Mfg. Co., Dayton, Ohio. Selective apparatus for party-telephones. No. 1,044,538; Nov. 19; Gaz. vol. 184; p. 581.
Knell, Edward, deceased, Carthage, Mo.; S. L. Knell, executrix. Burial apparatus. No. 1,041,812; Oct. 22; Gaz. vol. 183; p. 825.
Knell, Susan L., executrix. (See Knell, Edward.)
Knepper, George E., Altoona, Pa. Refrigerator-car. No. 1,037,152; Aug. 27; Gaz. vol. 181; p. 1033.
Kneppler, Charles M., New York, N. Y. Sheet-feeding mechanism for printing-presses. No. 1,041,302; Oct. 15; Gaz. vol. 183; p. 617.
Kneppler, Charles M., New York, N. Y. Sheet-feeding mechanism for printing-presses. No. 1,044,665; Nov. 19; Gaz. vol. 184; p. 626.
Knickerbocker, Burton D., Chicago, Ill. Bath-cabinet. No. 1,035,362; Aug. 13; Gaz. vol. 181; p. 356.
Knickerbocker Ice Company. (See Shedd, William J., assignor.)
Knickerbocker Leather & Novelty Company. (See Greenberg, Samuel, assignor.)
Knickmeyer, Henry. (See Fish, Charles H., assignor.)
Knight, Amos L., and W. N. Clements, assignors to Lanston Monotype Machine Company, Philadelphia, Pa. Type-mold. No. 1,024,512; Apr. 30; Sp. p. 5937; Gaz. vol. 177; p. 1059.
Knight, Arthur S., Newark, N. J., assignor to Westinghouse Lamp Company. Means for constructing incandescent lamps. No. 1,034,917; Aug. 6; Gaz. vol. 181; p. 172.
Knight, Arthur S., Newark, N. J., assignor to Westinghouse Lamp Company. Apparatus for manufacturing incandescent lamps. No. 1,042,451; Oct. 29; Gaz. vol. 183; p. 1067.
Knight, Charles A. (See Denman, Charles F., assignor.)
Knight, Charles D., Schenectady, N. Y., assignor to General Electric Company. Starting-switch for electric motors. No. 1,031,650; July 2; Gaz. vol. 180; p. 278.
Knight, Charles D., Schenectady, and W. O. Lum, Amsterdam, N. Y., assignors to General Electric Company. Self-starting direct-connected generator. No. 1,028,364; June 4; Sp. p. 660; Gaz. vol. 179; p. 99.
Knight, Claude H., Cleveland, Ohio. Recreation-tower. No. 1,039,545; Sept. 24; Gaz. vol. 182; p. 892.
Knight, Earle R., Norwood, Ohio, assignor to Allis-Chalmers Company. Core structure for dynamo-electric machines. No. 1,030,095; June 18; Sp. p. 4423; Gaz. vol. 179; p. 764.
Knight, Eugene V., and C. E. Cassatt, New Albany, Ind. Mail-box. No. 1,039,546; Sept. 24; Gaz. vol. 182; p. 892.
Knight, Frank, New Haven, Conn. Door opening and closing mechanism. No. 1,037,267; Sept. 3; Gaz. vol. 182; p. 30.
Knight, Frank, New Haven, Conn. Wind-shield. No. 1,047,817; Dec. 17; Gaz. vol. 185; p. 774.
Knight, Frank H., Lancaster, Pa. Sad-iron handle. No. 1,037,153; Aug. 27; Gaz. vol. 181; p. 1034.
Knight, George C., *et al.* (See Beene, John L., assignor.)
Knight, Gilbert N., Big Stone Gap, Va. Monetary document. No. 1,019,661; Mar. 5; Sp. p. 1435; Gaz. vol. 176; p. 221.
Knight, Herbert. (See Beatty, Ulysses G., assignor.)
Knight, J. Fred. (See Wade, George T., assignor.)
Knight, Joel D., Lombardy, Miss. Spring-wheel. No. 1,038,764; Sept. 17; Gaz. vol. 182; p. 605.
Knight, John J. (See Straub, William B., assignor.)
Knight, Jonathan L., Fond du Lac, Wis. Mezzanine-chair. No. 1,039,759; Oct. 1; Gaz. vol. 183; p. 30.
Knight, Julian G., Brooklyn, N. Y., assignor to N. P. Findley. Fixture-hanger. No. 1,025,068; Apr. 30; Sp. p. 7117; Gaz. vol. 177; p. 1251.
Knight, Livingston, Leicester, assignor to The Mills Woven Cartridge Belt Co., Worcester, Mass. Yarn-tension for looms. No. 1,019,053; Mar. 5; Sp. p. 88; Gaz. vol. 176; p. 18.
Knight, Margaret E., Framingham, Mass., assignor of one-fourth to A. F. Davidson and one-fourth to B. M. Davidson, Saratoga Springs, N. Y. Resilient wheel. No. 1,015,761; Jan. 23; Sp. p. 5884; Gaz. vol. 174; p. 1003.
Knight, Norman W., Spangle, Wash. Combined parachute and helicopter. No. 1,021,784; Apr. 2; Sp. p. 61; Gaz. vol. 177; p. 13.
Knight, Percy J., Liverpool, assignor of one-fourth to F. Smith, Liscard, Wallasey, England. Bottle-stoppering. No. 1,025,811; May 7; Sp. p. 1537; Gaz. vol. 178; p. 243.
Knight, Walter H. (See Hoadley and Knight.)
Knight, Walter V., Westbrook, Me. Window-screen. No. 1,016,888; Feb. 6; Sp. p. 1435; Gaz. vol. 175; p. 223.
Knight, William, Hill, Mont. Neck-yoke stop. No. 1,047,246; Dec. 17; Gaz. vol. 185; p. 571.
Knight, William B. (See Crawford and Knight.)
Knight, William G., Springfield, Mass. Silencer for railways. No. 1,020,507; Mar. 19; Sp. p. 3173; Gaz. vol. 176; p. 570.
Knighton, William C., Piedmont, Ala. Rail-chair. No. 1,034,715; Aug. 6; Gaz. vol. 181; p. 105.
Knights, George L., assignor to Pettingell Machine Co., Amesbury, Mass. Saw-table guide. No. 1,048,319; Dec. 24; Gaz. vol. 185; p. 970.
Knipp, Charles H. (See Hilliard, William J., assignor.)
Knipp, Franz, Darmstadt, Germany. Detachable sole for slippers and the like. No. 1,017,676; Feb. 20; Sp. p. 3149; Gaz. vol. 175; p. 568.
Knobel, Abraham. (See Brewer and Knobel.)
Knobloch, William J., Washington, D. C. Electric alarm. No. 1,026,518; May 14; Sp. p. 3149; Gaz. vol. 178; p. 519.
Knoch, Heinrich, Adlershof, near Berlin, Germany. Tire for automobile-wheels. No. 1,034,468; Aug. 6; Gaz. vol. 181; p. 22.

Alphabetical list of patentees—Continued.

Knoerzer, Otto, assignor to Champion Potato Machinery Company, Hammond, Ind. Builder's scaffold. No. 1,020,358; Mar. 12; Sp. p. 2850; Gaz. vol. 176; p. 483.
Knoerzer, Otto, and J. W. Weis, Hammond, Ind.; said Knoerzer assignor to said Weis. Combined memorandum-pad support and lighting device. No. 1,030,825; June 25; Sp. p. 6363; Gaz. vol. 179; p. 1062.
Knoevenagel, Emil, Heidelberg, assignor to Athion-Gesellschaft mit beschränkter Haftung, Mannheim-Waldhof, Germany. Removal of carbon disulfid from gases. No. 1,035,972; Aug. 20; Gaz. vol. 181; p. 598.
Knoke, Herman, Wheeling, W. Va. Guide. No. 1,046,079; Dec. 3; Gaz. vol. 185; p. 96.
Knoll and Company. (See Tambach, Rudolf, assignor.)
Knoll, Theodor E., Pforzheim, Germany. Ear-ring. No. 1,034,254; July 30; Gaz. vol. 180; p. 1315.
Knoop, John H. W., Philadelphia, Pa. Rectifying device. No. 1,045,566; Nov. 26; Gaz. vol. 184; p. 969.
Knopf, Charles, and W. N. Johnson, Richmond, Ind. Automatic piston-rod oiler. No. 1,017,057; Feb. 13; Sp. p. 1840; Gaz. vol. 175; p. 319.
Knopf, Frank C., Toledo, Ohio. Attachment for moving-picture machines. No. 1,041,813; Oct. 22; Gaz. vol. 183; p. 825.
Knoph, Ole E., Fravel, Wash. Davit. No. 1,043,607; Nov. 5; Gaz. vol. 184; p. 200.
Knoph, William C., New Orleans, La. Float for bathers. No. 1,026,519; May 14; Sp. p. 3150; Gaz. vol. 178; p. 520.
Knopp, Charles, Winona, Minn. Seed-planter. No. 1,046,199; Dec. 3; Gaz. vol. 185; p. 137.
Knopp, Charles J., Chicago, Ill. Engine-muffler. No. 1,044,397; Nov. 12; Gaz. vol. 184; p. 502.
Knopp, Otto A., Oakland, Cal. Electric-current-measuring instrument. No. 1,015,192; Jan. 16; Sp. p. 4634; Gaz. vol. 174; p. 781.
Knopp, Otto A., Oakland, assignor to Pacific Gas & Electric Company, San Francisco, Cal. Timing device. No. 1,038,599; Sept. 17; Gaz. vol. 182; p. 548.
Knötgen, Mathias, assignor to Gesellschaft zur Verwertung von Feuerwaffen Patenten m. b. H., Cologne, Germany. Machine-gun. No. 1,032,413; July 16; Gaz. vol. 180; p. 625.
Knoth, Conrad, and F. Whitecar, Newark, N. J. Smoking-pipe cleaner. No. 1,025,142; May 7; Sp. p. 63; Gaz. vol. 178; p. 12.
Knoth, Henry, Monterey, Mexico. Air-cooled open-hearth furnace. No. 1,044,788; Nov. 19; Gaz. vol. 184; p. 670.
Knott, Eustace R., Sharon, assignor to E. R. Knott Machine Company, Boston, Mass. Machine for cutting and wrapping candy kisses, &c. No. 1,025,069; Apr. 30; Sp. p. 7117; Gaz. vol. 177; p. 1251.
Knott, Levi, Altoona, Pa. Weather-strip. No. 1,016,419; Feb. 6; Sp. p. 407; Gaz. vol. 175; p. 64.
Knott, Levi, Altoona, Pa. Metallic weather-strip. No. 1,040,355; Oct. 8; Gaz. vol. 183; p. 259.
Knott, Louie E., assignor to L. E. Knott Apparatus Company, Boston, Mass. Apparatus for determining the amount of carbon dioxid in the air. No. 1,040,356; Oct. 8; Gaz. vol. 183; p. 260.
Knous, Franklin F., assignor to Winchester Repeating Arms Co., New Haven, Conn. Magazine-firearm. No. 1,034,122; July 30; Gaz. vol. 180; p. 1268.
Knowland, Thomas P., assignor of two-thirds to L. A. Douglass, Jeffersonville, Ind. Trolley and switch. No. 1,048,176; Dec. 24; Gaz. vol. 185; p. 923.
Knowles, Edward R., New York, N. Y. Tubular incandescent lamp. No. 1,028,118; June 4; Sp. p. 48; Gaz. vol. 179; p. 12.
Knowles, Edward R., New York, N. Y. Tubular incandescent lamp. No. 1,041,100; Oct. 15; Gaz. vol. 183; p. 549.
Knowles, Francis E. (See Luther, Charles J., assignor.)
Knowles, Jesse M. (See Stout and Knowles.)
Knowlson, Annie C., Ann Arbor, Mich. Nostril-expanding device. No. 1,014,758; Jan. 16; Sp. p. 3709; Gaz. vol. 174; p. 633.
Knowlson, Annie C., Ann Arbor, Mich. Nostril-expander. No. 1,034,123; July 30; Gaz. vol. 180; p. 1268.
Knowlson, Frederick. (See Irwin, Cullon, and Knowlson.)
Knowlton, Annie D., *et al.*, administrators. (See Knowlton, Mark D.)
Knowlton, Charles E., Grafton, and W. G. Smith, Lowell, Mass. Sputum-cup holder. No. 1,043,238; Nov. 5; Gaz. vol. 184; p. 68.
Knowlton, Charles F., Pittsburgh, and F. F. Elliot, Ross township, Allegheny county, Pa., assignors to The Osborn Manufacturing Company, Cleveland, Ohio. Mechanical movement. No. 1,028,886; June 11; Sp. p. 1773; Gaz. vol. 179; p. 310.
Knowlton, Daniel E. (See Davis, Harry S., assignor.)
Knowlton, Frederick K., *et al.*, administrators. (See Knowlton, Mark D.)
Knowlton, John D., Westbrook, Me. Druggist's device for dividing powders. No. 1,037,023; Aug. 27; Gaz. vol. 181; p. 991.
Knowlton, Mark D., deceased; A. D. and F. K. Knowlton, administrators, assignors to M. D. Knowlton Company, Rochester, N. Y. Box-covering machine. No. 1,037,154; Aug. 27; Gaz. vol. 181; p. 1035.
Knox, Alexander, Brisbane, Queensland, Australia. Transom. No. 1,030,096; June 18; Sp. p. 4425; Gaz. vol. 179; p. 764.
Knox Automobile Company. (See Farr, Herman G., assignor.)
Knox, David M., St. Louis, Mo., assignor of one-half to W. J. Knox, Dubois, Pa. Brake-beam safety-support. No. 1,024,789; Apr. 30; Sp. p. 6579; Gaz. vol. 177; p. 1157.
Knox, David M., St. Louis, Mo., assignor of one-half to W. J. Knox, Dubois, Pa. Roof-carline. No. 1,044,539; Nov. 19; Gaz. vol. 184; p. 581.
Knox, Herbert, Warehouse Point, Conn. Balance window-sash. No. 1,026,398; May 14; Sp. p. 2887; Gaz. vol. 178; p. 479.
Knox, Hiram, Livingston, Tex. Hook. No. 1,014,008; Jan. 9; Sp. p. 2053; Gaz. vol. 174; p. 346.
Knox, Luther L., Avalon, Pa., assignor to The Knox Pressed & Welded Steel Company, Niles, Ohio. Furnace-door. No. 1,037,778; Sept. 3; Gaz. vol. 182; p. 201.
Knox, Luther L., Avalon, assignor to Keystone Furnace Construction Company, Pittsburgh, Pa. Regenerative reversing-furnace. No. 1,038,154; Sept. 10; Gaz. vol. 182; p. 361.
Knox, Luther L., Avalon, assignor to Keystone Furnace Construction Company, Pittsburgh, Pa. Regenerative reversing-furnace. No. 1,041,814; Oct. 22; Gaz. vol. 183; p. 825.
Knox Pressed & Welded Steel Company, The. (See Knox, Luther L., assignor.)
Knox, William H., and H. M. White, Philadelphia, Pa. Warp stop-motion for looms. No. 1,014,399; Jan. 9; Sp. p. 2920; Gaz. vol. 174; p. 483.
Knox, William J. (See Knox, David M., assignor.)
Knudsen, Hans, London, England. Internal-combustion engine. No. 1,041,303; Oct. 15; Gaz. vol. 183; p. 618.
Knudsen, Jacob B., Chicago, Ill. Air-brake valve. No. 1,037,929; Sept. 10; Gaz. vol. 182; p. 286.
Knuppen, Peter. (See Bauer and Knuppen.)
Knuteson, John W. (See Krantz and Knuteson.)
Knutson, Bennie S., Steward, Ill. Jar-cover straightener. No. 1,045,040; Nov. 19; Gaz. vol. 184; p. 756.
Knutson, Peder M., Clifford, assignor of one-half to J. Falkenhagen, Galesburg, N. D. Tractor-hitch for drills and drags. No. 1,041,815; Oct. 22; Gaz. vol. 183; p. 826.
Knutz, Ernest H., Arcata, Cal. Combined insulator and current-distributer. No. 1,043,321; Nov. 5; Gaz. vol. 184; p. 99.
Kobich, George, New York, N. Y. Picture-exhibitor. No. 1,022,198; Apr. 2; Sp. p. 945; Gaz. vol. 177; p. 151.
Kobicke, Christopher H. (See Schell, Max P., assignor.)
Kobler, Albert J., New York, N. Y. Combined cigar-lighter and advertising-machine. No. 1,015,807; Jan. 30; Sp. p. 5976; Gaz. vol. 174; p. 1045.
Köbner, Max. (See Raschig and Köbner.)
Kobus, Jacob, Bridgeport, Conn. Screw-propeller. No. 1,029,694; June 18; Sp. p. 3522; Gaz. vol. 179; p. 625.
Kobzy, Stephan, Chicago, Ill. Book-holder. No. 1,041,101; Oct. 15; Gaz. vol. 183; p. 549.
Koch, Albert. (See Lender and Koch.)
Koch, Carl, Linden-on-the-Ruhr, Germany. Lamp-ignition device. No. 1,015,193; Jan. 16; Sp. p. 4636; Gaz. vol. 174; p. 782.
Koch, Ferdinand, Berlin, Germany. Weighing-machine. No. 1,033,420; July 23; Gaz. vol. 180; p. 1004.
Koch, Fred J., East St. Louis, Ill. Pneumatic wheel-hub. No. 1,018,428; Feb. 27; Sp. p. 4859; Gaz. vol. 175; p. 860.
Koch, Friedrich, Parsons, Kans. Baker's oven. No. 1,017,264; Feb. 13; Sp. p. 2302; Gaz. vol. 175; p. 392.
Koch, George, Shelton, Conn., assignor to Sidney Blumenthal & Company, New York, N. Y. Warp stop-motion for looms. No. 1,047,080; Dec. 10; Gaz. vol. 185; p. 481.
Koch, George, Shelton, Conn., assignor to Sidney Blumenthal & Company, New York, N. Y. Warp stop-motion for looms. No. 1,047,081; Dec. 10; Gaz. vol. 185; p. 481.
Koch, Gustav, New York, N. Y. Bottle-cap. No. 1,037,496; Sept. 3; Gaz. vol. 182; p. 109.
Koch, Henry, assignor to The Regina Company, Rahway, N. J. Suction cleaning device. No. 1,016,921; Feb. 6; Sp. p. 1519; Gaz. vol. 175; p. 235.
Koch, John, New York, N. Y. Mechanical vibrator. No. 1,013,782; Jan. 2; Sp. p. 1521; Gaz. vol. 174; p. 241.
Koch, John, Jr., Brookline, Mass. Door-check. No. 1,037,641; Sept. 3; Gaz. vol. 182; p. 156.
Koch, Leonard, *et al.* (See Wall, John W., assignor.)
Koch, Max, Ratingen, Germany. Tube-rolling mill. No. 1,048,547; Dec. 31; Gaz. vol. 185; p. 1086.
Koch, Norbert, Essen-Rellinghausen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Gun to be mounted upon automobiles. No. 1,029,303; June 11; Sp. p. 2667; Gaz. vol. 179; p. 452.
Koch, Rudolph, Temple, Tex. Automatic mail-bag catcher and deliverer. No. 1,017,976; Feb. 20; Sp. p. 3889; Gaz. vol. 175; p. 673.
Koch, William E., York, Pa. Ironing-board. No. 1,017,155; Feb. 13; Sp. p. 2063; Gaz. vol. 175; p. 354.
Koch, William L. C., Dedham, Mass. Car-fender. No. 1,021,413; Mar. 26; Sp. p. 5138; Gaz. vol. 176; p. 929.

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Kocian, Izydor, Junction City, Ill. Trolley. No. 1,027,857; May 28; Sp. p. 6083; Gaz. vol. 178; p. 1048.
Kocourek, Henry, assignor to Stewart & Clark Manufacturing Company, Chicago, Ill. Magnetic speedometer. No. 1,042,122; Oct. 22; Gaz. vol. 183; p. 928.
Koeberle, John E., Los Angeles, Cal. Headlight. No. 1,033,070; July 16; Gaz. vol. 180; p. 848.
Koechlin, Albert G., Basel, Switzerland, assignor to Spinnerei & Weberei Steinen Actien Gesellschaft, Steinen, Germany. Stop-motion for looms. No. 1,028,031; May 28; Sp. p. 6444; Gaz. vol. 178; p. 1105.
Koechlin, Albert G., Basel, Switzerland, assignor to Spinnerei & Weberei Steinen Actien-Gesellschaft, Steinen, Baden, Germany. Automatic bobbin-exchanging device for looms. No. 1,041,304; Oct. 15; Gaz. vol. 183; p. 618.
Koechlin, Albert G., assignor to Spinnerei und Weberei Steinen A. G., Steinen, Germany. Automatic spool-changing apparatus for looms. No. 1,038,898; Sept. 17; Gaz. vol. 182; p. 652.
Koechlin, Albert G., assignor to Spinnerei und Weberei Steinen A. G., Steinen, Germany. Automatic spool-changing apparatus for looms. No. 1,039,547; Sept. 24; Gaz. vol. 182; p. 893.
Koehler, Ferdinand. (See Rüdenberg and Koehler.)
Koehler, Frank G., St. Louis, Mo. Hand-truck. No. 1,014,400; Jan. 9; Sp. p. 2923; Gaz. vol. 174; p. 484.
Koehler, Frank G., St. Louis, Mo. Hand-truck. No. 1,033,421; July 23; Gaz. vol. 180; p. 1004.
Koehler, George H., and J. E. Horn, Pittsburgh, Pa. Anti-refillable bottle. No. 1,025,577; May 7; Sp. p. 1065; Gaz. vol. 178; p. 154.
Koehler, Gustave, Jr., Cincinnati, Ohio. Fluid-circulating indicator. No. 1,038,155; Sept. 10; Gaz. vol. 182; p. 361.
Koehler, Firm of Julius. (See Koehler, Max, assignor.)
Koehler, Louis F., Chicago, Ill. Dentist's anvil. No. 1,018,712; Feb. 27; Sp. p. 5522; Gaz. vol. 175; p. 956.
Koehler, Louis F., Chicago, Ill. Dentist's anvil. No. 1,018,713; Feb. 27; Sp. p. 5524; Gaz. vol. 175; p. 957.
Koehler, Max, assignor to Firm of J. Koehler, Limbach, Germany. Looping-machine. No. 1,026,808; May 21; Sp. p. 3776; Gaz. vol. 178; p. 654.
Koehler, William, Cleveland, Ohio. Reduction of ores. No. 1,013,498; Jan. 2; Sp. p. 896; Gaz. vol. 174; p. 143.
Koehn, Frank T., Tampa, Kans. Spring-frame for motor-cycles. No. 1,042,563; Oct. 29; Gaz. vol. 183; p. 1106.
Koehne, Ira C. (See Grohmann and Koehne.)
Koelitz, Edmund, Zehlendorf, Berlin, assignor to S. Oppenheimer, Dusseldorf, Germany. Producing dry yeast. No. 1,033,807; July 30; Gaz. vol. 180; p. 1157.
Koelle, Hermann H. V., Montreal, Quebec, Canada. Monorail-car and traction mechanism. No. 1,048,320; Dec. 24; Gaz. vol. 185; p. 970.
Koeller, Alfred H. (See Schimper, Frederick, assignor.)
Koelling, Louis C., *et al.* (See Frank, Edward H., assignor.)
Koen, Joseph T., Oneida, N. Y. Vehicle-wheel. No. 1,042,689; Oct. 29; Gaz. vol. 183; p. 1151.
Koenig, Alphonso L., San Francisco, Cal. Carbonating apparatus. No. 1,028,365; June 4; Sp. p. 663; Gaz. vol. 179; p. 100.
Koenig, George, Gautzsch, near Leipzig, Germany. Adding-machine. No. 1,048,321; Dec. 24; Gaz. vol. 185; p. 970.
Koenig, George G. C. (See Roesch, Reinhard, assignor.)
Koenig, Harry A., Philadelphia, Pa. Gas-heated sad-iron. No. 1,047,953; Dec. 24; Gaz. vol. 185; p. 848.
Koenig, Joseph, Two Rivers, Wis. Spouted vessel. No. 1,032,841; July 16; Gaz. vol. 180; p. 771.
Koenig, Robert, assignor to Phenix Tube Company, Brooklyn, N. Y. Butt-seamed metal tube and making the same. No. 1,019,485; Mar. 5; Sp. p. 1116; Gaz. vol. 176; p. 163.
Koenig, Robert, assignor to Phenix Tube Company, Brooklyn, N. Y. Tube-drawing machine. No. 1,019,805; Mar. 12; Sp. p. 1720; Gaz. vol. 176; p. 301.
Koenig, Robert, assignor to Phenix Tube Company, Brooklyn, N. Y. Tube-forming mechanism. No. 1,019,968; Mar. 12; Sp. p. 2050; Gaz. vol. 176; p. 354.
Koenig, William H., Beloit, Wis. Building-block. No. 1,025,406; May 7; Sp. p. 661; Gaz. vol. 178; p. 104.
Koepp & Co., Rudolph. (See Weise, Julius, assignor.)
Koerner, Charles A., Louisville, Ky. Support for concrete reinforcements. No. 1,047,655; Dec. 17; Gaz. vol. 185; p. 718.
Koerner, Charles H. W., Sherwood, Cal. Protected blank. No. 1,048,708; Dec. 31; Gaz. vol. 185; p. 1143.
Koerner, Ferdinand H., Irvington, assignor of one-third to A. F. Hensler, one-sixth to C. F. Beers, and one-sixth to J. Hensler, Newark, N. J. Journal-box. No. 1,017,295; Feb. 13; Sp. p. 2358; Gaz. vol. 175; p. 402.
Koerting, Ernst, Pegli, near Genoa, Italy, assignor to Schutte & Koerting Company, Philadelphia, Pa. Injector. No. 1,026,399; May 14; Sp. p. 2889; Gaz. vol. 178; p. 479.
Koesis, Gyula, and C. Balazs, St. Clairsville, Ohio. Wrench. No. 1,032,145; July 9; Gaz. vol. 180; p. 488.
Koetitz, Frederick A., San Francisco, Cal. Form and reinforcement for concrete casings. No. 1,042,802; Oct. 29; Gaz. vol. 183; p. 1190.
Koetschet, Joseph, Lyon, and A. Barbier, St. Fons, near Lyon, assignors to Société Chimique Des Usines Du Rhône, Anciennement Gilliard, P. Monnet et Cartier, Paris, France. Producing indigo-o-nitrophenyl-lactic acid ketones. No. 1,015,495; Jan. 23; Sp. p. 5320; Gaz. vol. 174; p. 912.
Koetschet, Joseph, Lyon, and A. Barbier, St. Fons, near Lyon, assignors to Société Chimique Des Usines Du Rhône, Anciennement Gilliard, P. Monnet et Cartier, Paris, France. Manufacture of nitrophenylnitromethanes, their homologues and derivatives. No. 1,015,496; Jan. 23; Sp. p. 5321; Gaz. vol. 174; p. 912.
Koetschet, Joseph, Lyon, and A. Barbier, St. Fons, near Lyon, assignors to Société Chimique des Usines du Rhône, Anciennement Gilliard, P. Monnet et Cartier, Paris, France. Manufacture of nitro-phenyl nitromethanes, their homologues and derivatives. No. 1,015,691; Jan. 23; Sp. p. 5749; Gaz. vol. 174; p. 979.
Koetschet, Joseph, and M. Theumann, Lyon, assignors to Société Chimique Des Usines Du Rhone, anciennement Gilliard, P. Monnet et Cartier, Paris, France. Acetylation of cellulosic materials. No. 1,030,311; June 25; Sp. p. 4911; Gaz. vol. 179; p. 877.
Kohart, Frank C., New York, N. Y. Gummed-strip-serving apparatus. No. 1,044,190; Nov. 12; Gaz. vol. 184; p. 431.
Koher, John D., assignor of one-half to A. Miller, Cromwell, Ind. Rail-joint. No. 1,029,068; June 11; Sp. p. 2165; Gaz. vol. 179; p. 373.
Kohl, Charles A., assignor of one-half to J. Kohl, Cleveland, Ohio. Baby-walker. No. 1,048,080; Dec. 24; Gaz. vol. 185; p. 890.
Kohl, H. K. A. (See Lannmark, Johannes K., assignor.)
Kohl, John. (See Kohl, Charles A., assignor.)
Köhlen, Johann, Grefrath, near Crefeld, Germany. Taking-in device for cloth-folding machines. No. 1,046,393; Dec. 3; Gaz. vol. 185; p. 208.
Köhler, August, assignor to The Firm of C. Zeiss, Jena, Germany. Liquid-lens system. No. 1,028,224; June 4; Sp. p. 366; Gaz. vol. 179; p. 51.
Kohler Die & Specialty Company. (See Bevington, James H., assignor.)
Kohler Die & Specialty Company. (See Thomsen, Max, assignor.)
Kohler, Edward C., Oak Park, Ill. Roller-skate. No. 1,020,989; Mar. 26; Sp. p. 4225; Gaz. vol. 176; p. 785.
Kohler, Frederick E., assignor to The F. E. Kohler Company, Canton, Ohio. Snow-shovel. No. 1,042,352; Oct. 22; Gaz. vol. 183; p. 1004.
Kohler, George B., assignor to The J. G. Brill Company, Philadelphia, Pa. Lock. No. 1,026,591; May 14; Sp. p. 3280; Gaz. vol. 178; p. 542.
Kohler, George B., assignor to The J. G. Brill Company, Philadelphia, Pa. Fare-box. No. 1,032,842; July 16; Gaz. vol. 180; p. 771.
Kohler, George B., assignor to The J. G. Brill Company, Philadelphia, Pa. Fare-box. No. 1,032,843; July 16; Gaz. vol. 180; p. 772.
Köhler, Hugo. (See Merling and Köhler.)
Köhler, Johan R., Stockholm, Sweden. Making betulin suitable for the production of coating compositions thereof. No. 1,016,162; Jan. 30; Sp. p. 6722; Gaz. vol. 174; p. 1168.
Kohler, John, New York, N. Y. Bedstead. No. 1,040,693; Oct. 8; Gaz. vol. 183; p. 381.
Kohler, Joseph, assignor of one-half to K. Collins, Chicago, Ill. Spring-wheel. No. 1,040,694; Oct. 8; Gaz. vol. 183; p. 381.
Kohler, Karl, and F. Floh, Vienna, Austria-Hungary. Roller-skate. No. 1,034,625; Aug. 6; Gaz. vol. 181; p. 74.
Kohler, Richard O. (See Stacks, Howard R., assignor.)
Kohlhaas, Friedrich, Dusseldorf, Germany, assignor to International Steel, Limited, Birmingham, England. Unmagnetizable steel. (Reissue.) No. 13,440; July 9; Gaz. vol. 180; p. 567.
Kohlhof, Louise D., Riedel, Mont. Envelop. No. 1,044,666; Nov. 19; Gaz. vol. 184; p. 626.
Kohlmyer, Frederick W., Cleveland, Ohio. Guard for polishing or grinding wheels. No. 1,027,548; May 28; Sp. p. 5394; Gaz. vol. 178; p. 945.
Kohloff, Paul W., Larchmont, assignor of one-half to J. P. Petersen, New Rochelle, N. Y. Toy and game device. No. 1,046,805; Dec. 10; Gaz. vol. 185; p. 391.
Kohloff, Paul W., Larchmont, assignor of one-half to J. Schaeffer, Mount Vernon, N. Y. Heating device or attachment for gas-burners. No. 1,048,177; Dec. 24; Gaz. vol. 185; p. 923.
Kohlrust, John H., Philadelphia, Pa. Spark-arrester. No. 1,048,417; Dec. 24; Gaz. vol. 185; p. 1002.
Köhn, Claus H., Leipzig-Lindenau, assignor of one-half to E. Munster, Leipzig, Germany. Method of and apparatus for vaporizing the volatile constituents of liquids. No. 1,013,881; Jan. 9; Sp. p. 1771; Gaz. vol. 174; p. 304.

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Kohn, Joseph, Philadelphia, Pa. Artificial tooth and crown. No. 1,026,213; May 14; Sp. p. 2489; Gaz. vol. 178; p. 417.
Kohn, Joseph, Philadelphia, Pa. Mold for artificial teeth. No. 1,031,855; July 9; Gaz. vol. 180; p. 392.
Kohn, Koby, Lincoln, Nebr. Container. No. 1,041,635; Oct. 15; Gaz. vol. 183; p. 725.
Kohn, Max, Cleveland, Ohio. Coat. No. 1,014,651; Jan. 16; Sp. p. 3482; Gaz. vol. 174; p. 597.
Kohn, Monroe, Chicago, Ill. Device for removing corn from the cob. No. 1,035,606; Aug. 13; Gaz. vol. 181; p. 438.
Kohnle, Frederick, Dayton, Ohio. Pin-ticketing machine. No. 1,028,225; June 4; Sp. p. 367; Gaz. vol. 179; p. 51.
Kohnle, Frederick, Dayton, Ohio. Tag-labeling machine. No. 1,028,226; June 4; Sp. p. 370; Gaz. vol. 179; p. 52.
Kohnle, Frederick, Dayton, Ohio, assignor to The Ohio Safe Deposit & Trust Company, trustee. Ratchet locking mechanism. No. 1,025,530; May 7; Sp. p. 951; Gaz. vol. 178; p. 147.
Kohnle, Frederick, assignor to The Ohio Safe Deposit & Trust Company, trustee, Dayton, Ohio. Pin-ticketing machine. No. 1,029,695; June 18; Sp. p. 3523; Gaz. vol. 179; p. 625.
Kohnle, Frederick, assignor to T. Meuche and H. H. Prugh, trustees, Dayton, Ohio. Tag and label. No. 1,029,935; June 18; Sp. p. 4083; Gaz. vol. 179; p. 709.
Kohr, John S., Onset, assignor of one-half to R. W. Krall, York, Pa. Ice-cutting machine. No. 1,029,133; June 11; Sp. p. 2312; Gaz. vol. 179; p. 394.
Kohr, Samuel M., Manchester, Pa. Automatic fire-alarm. No. 1,021,609; Mar. 26; Sp. p. 5542; Gaz. vol. 176; p. 995.
Koike, Kihei, Seattle, Wash. Watchcase. No. 1,017,420; Feb. 13; Sp. p. 2633; Gaz. vol. 175; p. 445.
Koike, Kihei, Seattle, Wash. Display apparatus. No. 1,031,126; July 2; Gaz. vol. 180; p. 98.
Koike, Kihei, assignor to S. Hirai, Seattle, Wash. Display apparatus. No. 1,026,214; May 14; Sp. p. 2491; Gaz. vol. 178; p. 417.
Koike, Kihei, assignor to S. Hirai, Seattle, Wash. Display apparatus. No. 1,031,125; July 2; Gaz. vol. 180; p. 98.
Koike, Kihei, assignor to K. Takahashi, Seattle, Wash. Display apparatus. No. 1,038,899; Sept. 17; Gaz. vol. 182; p. 653.
Koiw, Julius, Port Arthur, Tex. Air-craft propeller. No. 1,040,695; Oct. 8; Gaz. vol. 183; p. 382.
Kojsza, Bartalan, *et al.* (See Klemovics, Janos, assignor.)
Koken, Edward H., Akron, Ohio. Vehicle tire and rim. No. 1,039,760; Oct. 1; Gaz. vol. 183; p. 31.
Koken, Walter F., St. Louis, Mo. Head-rest lock. No. 1,039,414; Sept. 24; Gaz. vol. 182; p. 845.
Kokernot, Alexander B., New Orleans, La. Hat-pin. No. 1,023,659; Apr. 16; Sp. p. 4038; Gaz. vol. 177; p. 708.
Kokko, John, Ellis Bay, Quebec, Canada. Bark-stripping machine. No. 1,024,137; Apr. 23; Sp. p. 5099; Gaz. vol. 177; p. 896.
Kolár, Nandor, and W. Jancsó, Budapest, Austria-Hungary. Preserving wooden articles buried in the earth. No. 1,042,564; Oct. 29; Gaz. vol. 183; p. 1106.
Kolarik, Vaclav, Owosso, Mich. Manufacturing beet-sugar. No. 1,047,082; Dec. 10; Gaz. vol. 185; p. 482.
Kolassa, Anton, Vienna, Austria-Hungary. Spacing-machine. No. 1,023,740; Apr. 16; Sp. p. 4169; Gaz. vol. 177; p. 732.
Kolassa, Anton, Vienna, Austria-Hungary. Machine-tool. No. 1,046,394; Dec. 3; Gaz. vol. 185; p. 208.
Kolb, August R., Pelham, N. Y. Machine for manufacturing sheets, boards, tubes, and other articles from pulp. No. 1,019,486; Mar. 5; Sp. p. 1118; Gaz. vol. 176; p. 163.
Kolb, Edward W., Westmount, Quebec, Canada. Car-window screen. No. 1,042,123; Oct. 22; Gaz. vol. 183; p. 928.
Kolb, Hermann H., Badger, Iowa. Starting-crank for explosive-engines. No. 1,045,041; Nov. 19; Gaz. vol. 184; p. 756.
Kollenberg, Frederick G., assignor to E. Little, Owensboro, Ky. Tire. No. 1,031,856; July 9; Gaz. vol. 180; p. 392.
Koller, Gustav, Forest Gate, England. Organic-chloro-compound soaps and cleansing compositions. No. 1,038,900; Sept. 17; Gaz. vol. 182; p. 653.
Koller, Wilhelm, assignor of forty-five one-hundredths to O. Marx and five one-hundredths to W. Koller, Jr., Chicago, Ill. Swing. No. 1,045,156; Nov. 26; Gaz. vol. 184; p. 824.
Köllermeyer, Wilhelm, Hörde, Germany. Socket-wrench for headless screws. No. 1,048,178; Dec. 24; Gaz. vol. 185; p. 924.
Kolling, Michael J., Crown Point, Ind. Door-hinge. No. 1,046,806; Dec. 10; Gaz. vol. 185; p. 392.
Köllüs, Ödön, Monessen, Pa. Wrench. No. 1,046,200; Dec. 3; Gaz. vol. 185; p. 138.
Kolossváry, Andreas, S. Haltenberger, Budapest, and E. Berdenich, Püspök Ladány, Austria-Hungary; said Kolossváry assignor to said Haltenberger and Berdenich. Preserving poles, &c. No. 1,018,624; Feb. 27; Sp. p. 5337; Gaz. vol. 175; p. 926.
Kolsky, George, New York, N. Y. Oxidizing or reducing chemical substances by way of electrolysis. No. 1,039,415; Sept. 24; Gaz. vol. 182; p. 845.
Koltschanoff, Emilian, assignor to Société Sfaello Frères, E. Koltschanoff & U. Diamantidi, Taganrog, Russia. Pneumatic pump for lifting granular materials. No. 1,016,017; Jan. 30; Sp. p. 6427; Gaz. vol. 174; p. 1119.
Komarek, Gustav, St. Louis, Mo. Car-truck. No. 1,042,124; Oct. 22; Gaz. vol. 183; p. 929.
Komarek, Gustav, assignor to C. L. Gilbert, St. Louis, Mo. Car-truck side frame. No. 1,014,067; Jan. 9; Sp. p. 2191; Gaz. vol. 174; p. 366.
Komarek, Gustav, St. Louis, Mo., assignor to St. Louis Briquette Machine Company. Briquet-machine. No. 1,026,682; May 21; Sp. p. 3502; Gaz. vol. 178; p. 611.
Komarek, Gustav, assignor to St. Louis Briquette Machine Company, St. Louis, Mo. Briquet-machine. No. 1,036,647; Aug. 27; Gaz. vol. 181; p. 867.
Kommers, Isaac, Jr. (See Oling, Abraham J., assignor.)
Kondor, Joseph. (See Spielmann, Josef, assignor.)
König, Adolf, Charlottenburg, Germany. Automatic valve mechanism. No. 1,031,451; July 2; Gaz. vol. 180; p. 210.
König, Albert, assignor to Firm of C. Zeiss, Jena, Germany. Lookout-telescope. No. 1,034,804; Aug. 6; Gaz. vol. 181; p. 136.
König, Wilhelm, Brunswick, Germany. Adjusting the sights of guns. No. 1,048,975; Dec. 31; Gaz. vol. 185; p. 1234.
Konomax Rock Drill Syndicate Limited, The. (See Mauss, Wilhelm, assignor.)
Konyha, Steve, *et al.* (See Tözsér, John, assignor.)
Koons, Sidney, near Alexis, Ill., assignor to C. L. Hibbard, Kansas City, Mo., and C. Hibbard, Galesburg, Ill. Sawing-machine. No. 1,043,775; Nov. 5; Gaz. vol. 184; p. 255.
Koons, Virgil C., Colorado Springs, Colo. Package or paper holder for mail-boxes or the like. No. 1,024,266; Apr. 23; Sp. p. 5389; Gaz. vol. 177; p. 943.
Koons, Virgil C., assignor to The Continental Manufacturing Company, Colorado Springs, Colo. Heating system for chicken-culture apparatus. No. 1,018,714; Feb. 27; Sp. p. 5526; Gaz. vol. 175; p. 957.
Koons, Walter S., Temple, Okla. Adjustable trousers-guard. No. 1,014,009; Jan. 9; Sp. p. 2054; Gaz. vol. 174; p. 346.
Koontz, Elmer R., Richards, Mo. Mechanism for baletying. No. 1,015,327; Jan. 23; Sp. p. 4942; Gaz. vol. 174; p. 855.
Koontz, Harvey. (See Noisom and Koontz.)
Koontz, Victor R., assignor of one-half to J. H. Gehr, Waynesboro, Pa. Cutter-head and mechanism for actuating the dies thereof. No. 1,048,081; Dec. 24; Gaz. vol. 185; p. 890.
Koontz, Walter S., Adeline, Ill. Discharging mechanism for grain-binding machines. No. 1,019,716; Mar. 5; Sp. p. 1533; Gaz. vol. 176; p. 238.
Koopman, Charles J., Middletown, Cal. Resilient tire. No. 1,037,642; Sept. 3; Gaz. vol. 182; p. 157.
Kopald, Victor H., Brooklyn, N. Y. Bottle-stopper. No. 1,041,816; Oct. 22; Gaz. vol. 183; p. 826.
Kopetka, Joseph P., Bloomfield, Nebr. Ice-sawing machine. No. 1,021,196; Mar. 26; Sp. p. 4648; Gaz. vol. 176; p. 852.
Kopf, Henry B., New Haven, Conn. Means for packing fresh pineapples. No. 1,042,928; Oct. 29; Gaz. vol. 183; p. 1233.
Kopf, Joseph B., Rockville Center, N. Y. Non-slipping overshoe for horses. No. 1,023,431; Apr. 16; Sp. p. 3578; Gaz. vol. 177; p. 636.
Köpke, Ernst, Honolulu, Hawaii. Flue-scraper. No. 1,035,363; Aug. 13; Gaz. vol. 181; p. 357.
Kopp, Charles A. (See Jenkins, William E., assignor.)
Köppen, Lothar von, Wilmersdorf, near Berlin, Germany. Ship. No. 1,034,626; Aug. 6; Gaz. vol. 181; p. 74.
Kopper, Heinrich, Mülheim-on-the-Ruhr, Germany. Regulating and reversing apparatus for regenerating gas-furnaces. No. 1,029,696; June 18; Sp. p. 3529; Gaz. vol. 179; p. 625.
Kopper, Heinrich, Mülheim-on-the-Ruhr, Germany. Regulating and reversing apparatus for regenerating gas-furnaces. No. 1,036,266; Aug. 20; Gaz. vol. 181; p. 704.
Koppers, Heinrich, Essen, Germany. Recovering ammonia from gases. No. 1,013,404; Jan. 2; Sp. p. 694; Gaz. vol. 174; p. 110.
Koppers, Heinrich, Essen-on-the-Ruhr, Germany. Retort-oven for producing gas and coke. No. 1,026,169; May 14; Sp. p. 2376; Gaz. vol. 178; p. 401.
Koppers, Heinrich, Essen-on-the-Ruhr, Germany. Method of and apparatus for effecting graded delivery of coke from horizontal and inclined retort-ovens. No. 1,036,648; Aug. 27; Gaz. vol. 181; p. 867.
Koppitz, Carl G. (See Townsend and Gosselin, assignors.)

Koppmann, Julia, Groveland township, Tazewell county, Ill. Cooker. No. 1,038,393; Sept. 10; Gaz. vol. 182; p. 441.
Kopriwa, Emanuel. (See Salstrom, David B., assignor.)
Kops Bros. (See Giles, Harvey, assignor.)
Kops Bros. (See Kops, Waldemar, assignor.)
Kops, Daniel, New York, N. Y. Apparel-corset. No. 1,019,487; Mar. 5; Sp. p. 1120; Gaz. vol. 176; p. 164.
Kops, Daniel, New York, N. Y. Apparel-corset. No. 1,020,764; Mar. 19; Sp. p. 3753; Gaz. vol. 176; p. 657.
Kops, Daniel, New York, N. Y. Apparel-corset. No. 1,030,190; June 18; Sp. p. 4612; Gaz. vol. 179; p. 794.
Kops, Daniel, New York, N. Y. Apparel-corset. No. 1,032,146; July 9; Gaz. vol. 180; p. 488.
Kops, Daniel, New York, N. Y. Hose-supporter for apparel-corsets. No. 1,042,125; Oct. 22; Gaz. vol. 183; p. 929.
Kops, Daniel, New York, N. Y. Apparel-corset. No. 1,042,126; Oct. 22; Gaz. vol. 183; p. 930.
Kops, Daniel, New York, N. Y. Apparel-corset. No. 1,044,191; Nov. 12; Gaz. vol. 184; p. 431.
Kops, Daniel, New York, N. Y. Apparel-corset. No. 1,047,083; Dec. 10; Gaz. vol. 185; p. 482.
Kops, Waldemar, assignor to Kops Bros., New York, N. Y. Elastic webbing and weaving the same. No. 1,024,206; Apr. 23; Sp. p. 5256; Gaz. vol. 177; p. 921.
Kops, Waldemar, assignor to Kops Bros., New York, N. Y. Elastic fabric. No. 1,024,207; Apr. 23; Sp. p. 5258; Gaz. vol. 177; p. 921.
Kops, Waldemar, assignor to Kops Bros., New York, N. Y. Elastic fabric. No. 1,030,893; July 2; Gaz. vol. 180; p. 15.
Kops, Waldemar, assignor to Kops Bros., New York, N. Y. Elastic fabric. No. 1,030,894; July 2; Gaz. vol. 180; p. 15.
Kops, Waldemar, assignor to Kops Bros., New York, N. Y. Elastic fabric. No. 1,030,895; July 2; Gaz. vol. 180; p. 16.
Kops, Waldemar, assignor to Kops Bros., New York, N. Y. Elastic webbing. No. 1,043,524; Nov. 5; Gaz. vol. 184; p. 172.
Kops, Waldemar, assignor to Kops Bros., New York, N. Y. Elastic webbing. No. 1,043,525; Nov. 5; Gaz. vol. 184; p. 172.
Kops, Waldemar, assignor to Kops Bros., New York, N. Y. Elastic fabric. No. 1,044,890; Nov. 19; Gaz. vol. 184; p. 704.
Kops, Waldemar, assignor to Kops Bros., New York, N. Y. Elastic webbing. No. 1,047,656; Dec. 17; Gaz. vol. 185; p. 718.
Korb, Leo A., Richwood, W. Va., assignor of one-half to B. Sicking, Cincinnati, Ohio. Water-heater. No. 1,047,893; Dec. 17; Gaz. vol. 185; p. 800.
Koretz, Emerick, Cleveland, Ohio. Dinner-bucket. No. 1,022,246; Apr. 2; Sp. p. 1049; Gaz. vol. 177; p. 167.
Korf, Georg, Hamburg, Germany. Wing for flying-machines. No. 1,031,452; July 2; Gaz. vol. 180; p. 210.
Korff, Francis. (See Joy, Smith, and Korff.)
Korff, Francis, assignor to Korff Mfg. Co., Lansing, Mich. Serving apparatus. No. 1,028,942; June 11; Sp. p. 1900; Gaz. vol. 179; p. 328.
Korff Manufacturing Company. (See Joy, Smith, and Korff, assignors.)
Korff Manufacturing Company. (See Smith, Mark H., assignor.)
Korff Mfg. Co. (See Korff, Francis, assignor.)
Korges, Emil H., Moulton, Tex. Rail-clamp. No. 1,022,559; Apr. 9; Sp. p. 1700; Gaz. vol. 177; p. 300.
Kornacher, Fritz, Auerbach, Germany. Making firm, almost entirely waterproof, non-slipping leather. No. 1,036,267; Aug. 20; Gaz. vol. 181; p. 704.
Kornahrens, Johann N., Jr., Summerville, S. C. Riveting device. No. 1,031,560; July 2; Gaz. vol. 180; p. 247.
Kornder, Frederick, New York, N. Y. Insole-support. No. 1,044,891; Nov. 19; Gaz. vol. 184; p. 704.
Korndoerfer, Augustus, Jr., assignor of one-fourth to J. J. Tuller and one-fifth to H. E. Latham, Philadelphia, Pa. Latch knitting-needle. No. 1,032,613; July 16; Gaz. vol. 180; p. 691.
Korndoerfer, Otto, New York, N. Y. Hat-pin. No. 1,016,420; Feb. 6; Sp. p. 408; Gaz. vol. 175; p. 64.
Korndörfer, Georg, assignor to Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany. Derivatives of diaminodioxyarsenobenzene. No. 1,024,993; Apr. 30; Sp. p. 6989; Gaz. vol. 177; p. 1228.
Körner, Eduard, Lützel, near Koblenz, Germany. Apparatus for controlling the lighting of gas from a distance. No. 1,025,750; May 7; Sp. p. 1415; Gaz. vol. 178; p. 222.
Korns, Clarence C., Covington, Va. Spring-switch. No. 1,013,297; Jan. 2; Sp. p. 470; Gaz. vol. 174; p. 73.
Korotkiewitsch, Iwan von, Warsaw, Russia. Automatic signaling and checking apparatus for railway-signals. No. 1,042,236; Oct. 22; Gaz. vol. 183; p. 966.
Korper, Simon, New York, N. Y. Safety corn-parer. No. 1,014,154; Jan. 9; Sp. p. 2366; Gaz. vol. 174; p. 395.
Korrodi, Heinrich, Bern-Kirchenfeld, Switzerland, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Gun-sighting device. No. 1,041,102; Oct. 15; Gaz. vol. 183; p. 550.
Korth, John C., New York, N. Y. Grip dumb-bell. No. 1,026,215; May 14; Sp. p. 2492; Gaz. vol. 178; p. 417.
Korytowski, Gustav, Berlin, Germany. Electrically-operated door. No. 1,018,246; Feb. 20; Sp. p. 4461; Gaz. vol. 175; p. 766.
Koskul, Ralph B., Philadelphia, Pa. Automatic stabilizing mechanism. No. 1,047,247; Dec. 17; Gaz. vol. 185; p. 572.
Kosmin, Charles, Arlington Heights, Ill. Ditching-machine. No. 1,023,156; Apr. 16; Sp. p. 3036; Gaz. vol. 177; p. 545.
Kostenbader, Howard T., assignor of one-half to W. M. Smith, Chapman Quarries, Pa. Spike-puller. No. 1,014,068; Jan. 9; Sp. p. 2193; Gaz. vol. 174; p. 367.
Kostenbauder, Harry D. (See Keller, Brassington, and Kostenbauder.)
Koster, Corneilius, Grand Rapids, Mich. Stock-support for boring-machines. No. 1,015,497; Jan. 23; Sp. p. 5322; Gaz. vol. 174; p. 912.
Köster, Ernst W., Frankfort-on-the-Main, Germany. Turbo-compressor. No. 1,032,147; July 9; Gaz. vol. 180; p. 488.
Kosters, George J., Covington, Ky. Operating means for doors. No. 1,046,608; Dec. 10; Gaz. vol. 185; p. 321.
Kószegi, Karl, Baja, and E. Széchenyi, Vajszka, Austria-Hungary. Cultivating-machine. No. 1,034,124; July 30; Gaz. vol. 180; p. 1268.
Kosztotanyi, Mike, *et al.* (See Molnár, Steve, assignor.)
Kosztura, Steve, Gary, W. Va. Safety device for elevators. No. 1,046,609; Dec. 10; Gaz. vol. 185; p. 322.
Kotkovský, Benjamen, Paris, France. Machine for cutting key-bits. No. 1,025,917; May 7; Sp. p. 1810; Gaz. vol. 178; p. 279.
Kotkovsky, Benjamen, Paris, France. Variable safety-lock with controlling device. No. 1,040,696; Oct. 8; Gaz. vol. 183; p. 382.
Kotraba, Frank, Westchester, N. Y. Match-safe. No. 1,042,690; Oct. 29; Gaz. vol. 183; p. 1151.
Kottkay, Rudolph A., Detroit, Mich. Adjustable shade-roller and window-curtain fixture. No. 1,029,198; June 11; Sp. p. 2444; Gaz. vol. 179; p. 416.
Kotts, Frederick A. (See Whetstone, Sylvester S., assignor.)
Kottusch, Emil W., assignor to The Miller, Du Brul & Peters Mfg. Co., Cincinnati, Ohio. Knife-cleaning machine. No. 1,033,908; July 30; Gaz. vol. 180; p. 1192.
Koufman, Wolff, Paterson, N. J. Bottle or jar closure. No. 1,042,237; Oct. 22; Gaz. vol. 183; p. 966.
Kouns, Victor, St. Louis, Mo. Dumping-car. No. 1,021,686; Mar. 26; Sp. p. 5664; Gaz. vol. 176; p. 1020.
Kountz, George W., Rochester, Pa. Marking-tool holder. No. 1,043,322; Nov. 5; Gaz. vol. 184; p. 100.
Kout, William J. (See Manlet, Peter L., assignor.)
Kouyoumjian, Haroutiun K., St. Louis, Mo. Cloth-pressing machine. No. 1,024,483; Apr. 23; Sp. p. 5834; Gaz. vol. 177; p. 1014.
Kouyoumjian, Haroutiun K., St. Louis, Mo. Electro-magnet controlling device. No. 1,042,691; Oct. 29; Gaz. vol. 183; p. 1151.
Kovacs, Dyonis, Rochester, N. Y. Picture. No. 1,014,759; Jan. 16; Sp. p. 3710; Gaz. vol. 174; p. 633.
Kovács, Ferencz, Hannibal, Mo. Wrench. No. 1,024,901; Apr. 30; Sp. p. 6801; Gaz. vol. 177; p. 1195.
Kovacs, Josef, Mount Carmel, Pa. Wrench. No. 1,015,194; Jan. 16; Sp. p. 4637; Gaz. vol. 174; p. 782.
Kovar, William L., and W. Wlha, Merle, Tex. Harrow cultivator attachment. No. 1,034,255; July 30; Gaz. vol. 180; p. 1315.
Kowalk, Elmer, *et al.* (See Holtz, Emerson E., assignor.)
Kowalski, Julian, Chicago, Ill. Cooking utensil. No. 1,018,116; Feb. 20; Sp. p. 4498; Gaz. vol. 175; p. 721.
Kowalsky, Andrew, Chicago, Ill. Molding-machine. No. 1,039,143; Sept. 24; Gaz. vol. 182; p. 749.
Kowalsky, George, McDowell, W. Va. Feed-bag. No. 1,016,075; Jan. 30; Sp. p. 6569; Gaz. vol. 174; p. 1140.
Kozaczka, Antoni, Oil City, Pa. Tie and rail-fastener. No. 1,030,896; July 2; Gaz. vol. 180; p. 16.
Krabill, Elmer. (See Saltzman and Krabill.)
Kraemer, Eduard, Cologne, Germany. Automatic grab. No. 1,030,191; June 18; Sp. p. 4614; Gaz. vol. 179; p. 795.
Kraemer, Edwin N., Milwaukee, Wis. Compass. No. 1,035,973; Aug. 20; Gaz. vol. 181; p. 598.
Kraemer, Edwin N., Cedarburg, Wis. Valve-spring releaser and retainer. No. 1,035,974; Aug. 20; Gaz. vol. 181; p. 599.
Kraemer, Otto, assignor of one-fourth to M. Brown, El Campo, Tex. Running-gear for vehicles. No. 1,035,975; Aug. 20; Gaz. vol. 181; p. 599.
Kraenner, William, Ripley, Ohio. Apparatus for delivering and receiving mail. No. 1,038,600; Sept. 17; Gaz. vol. 182; p. 548.
Kraetzer, Albert, Chicago, Ill. Automobile-body. No. 1,046,201; Dec. 3; Gaz. vol. 185; p. 138.
Kraft, August W. (See York and Tinker, assignors.)
Kraft, Henry J., Chicago, Ill. Aeroplane. No. 1,028,887; June 11; Sp. p. 1776; Gaz. vol. 179; p. 310.
Kraft, Henry P. (See Schweinert and Kraft.)
Kraft, John, Chicago, Ill. Nose-bag. No. 1,043,708; Nov. 5; Gaz. vol. 184; p. 233.

Alphabetical list of patentees—Continued.

Kraft, William, Detroit, Mich. Latch and lock. No. 1,041,305; Oct. 15; Gaz. vol. 183; p. 619.
Kraftsik, Albin F., Mount Pleasant, Pa. Balloon attachment. No. 1,017,767; Feb. 20; Sp. p. 3344; Gaz. vol. 175; p. 599.
Krag, Erik L., assignor to R. W. Paltridge and W. L. Proper, Chicago, Ill. Metallic book-stack. No. 1,030,472; June 25; Sp. p. 5271; Gaz. vol. 179; p. 935.
Krag, Ole H. J., Ullern, near Christiania, Norway. Automatic repeating firearm. No. 1,028,032; May 28; Sp. p. 6445; Gaz. vol. 178; p. 1105.
Krager, Charles L., Daisy, Tenn., assignor to Herty Turpentine Cup Company, Jacksonville, Fla. Sap-cup and support therefor. No. 1,044,058; Nov. 12; Gaz. vol. 184; p. 386.
Krah, Alexis, assignor to The English & Mersick Co., New Haven, Conn. Lock-joint for wind-shields. No. 1,031,275; July 2; Gaz. vol. 180; p. 151.
Krais, Paul, Tübingen-Lustnau, assignor to M. Petzold, Zittau, Germany. Purifying waste mercerization-lyes. No. 1,025,882; Aug. 20; Gaz. vol. 181; p. 569.
Krakau, Harry T., assignor to The National Malleable Castings Company, Cleveland, Ohio. Draft-gear. No. 1,023,109; Apr. 9; Sp. p. 2885; Gaz. vol. 177; p. 490.
Krakau, Harry T., assignor to The National Malleable Castings Company, Cleveland, Ohio. Car-coupling. No. 1,040,551; Oct. 8; Gaz. vol. 183; p. 328.
Král, Károly, New York, N. Y. Sliding drawer. No. 1,039,548; Sept. 24; Gaz. vol. 182; p. 893.
Krall, Georg, Mülhausen, Germany. Mechanism for cleaning cotton and like filaments. No. 1,031,937; July 9; Gaz. vol. 180; p. 420.
Krall, Raymond W. (See Kohr, John S., assignor.)
Kramer, Adam T., Bluffton, Minn. Rail-anticreeping device. No. 1,014,155; Jan. 9; Sp. p. 2367; Gaz. vol. 174; p. 395.
Kramer, Andrew A., Kansas City, Kans. Outdoor toilet. No. 1,013,183; Jan. 2; Sp. p. 185; Gaz. vol. 174; p. 33.
Krämer, Bernhard, Charlottenburg, Germany, assignor to General Electric Company. Governing mechanism for mixed-pressure turbines. No. 1,013,184; Jan. 2; Sp. p. 186; Gaz. vol. 174; p. 33.
Krämer, Christian, assignor to Felten & Guilleaume-Lahmeyerwerke Actien Gesellschaft, Frankfort-on-the-Main, Germany. Apparatus for electrically controlling machine-tools. No. 1,028,033; May 28; Sp. p. 6453; Gaz. vol. 178; p. 1106.
Krämer, Christian, assignor to Felten & Guilleaume-Lahmeyerwerke Aktien-Gesellschaft, Frankfort-on-the-Main, Germany. System for controlling electromotors. No. 1,048,548; Dec. 31; Gaz. vol. 185; p. 1086.
Krämer, Christian, Berlin, Germany, assignor to General Electric Company. Power-transmission system. No. 1,041,103; Oct. 15; Gaz. vol. 183; p. 550.
Krämer, Christian, Berlin, Germany, assignor to General Electric Company. Motor-control system. No. 1,042,692; Oct. 29; Gaz. vol. 183; p. 1152.
Krämer, Christian, Berlin, Germany, assignor to General Electric Company. Motor-control system. No. 1,042,693; Oct. 29; Gaz. vol. 183; p. 1152.
Kramer, Ferdinand, Green Timber, Idaho. Valve-operating mechanism. No. 1,017,977; Feb. 20; Sp. p. 3891; Gaz. vol. 175; p. 673.
Kramer, Hans von, Erdington, Birmingham, England. Inductive telephone and telegraphic installation. No. 1,045,413; Nov. 26; Gaz. vol. 184; p. 913.
Kramer, Jacob, Strasburg, N. D. Alarm device. No. 1,046,080; Dec. 3; Gaz. vol. 185; p. 97.
Kramer, Joseph, Eldora, Iowa. Device for opening gates. No. 1,013,185; Jan. 2; Sp. p. 187; Gaz. vol. 174; p. 33.
Kramer, Nicholas, Chicago, Ill. Umbrella-stand. No. 1,013,662; Jan. 2; Sp. p. 1263; Gaz. vol. 174; p. 198.
Kramer, Nick, Charleston, Kans. Pump-rod lifter. No. 1,016,334; Feb. 6; Sp. p. 224; Gaz. vol. 175; p. 34.
Kramer, William, Brooklyn Hill, N. Y. Fishing-reel. No. 1,013,942; Jan. 9; Sp. p. 1907; Gaz. vol. 174; p. 325.
Krancher, Edward, New York, N. Y. Game apparatus. No. 1,047,657; Dec. 17; Gaz. vol. 185; p. 719.
Krangness, Nels B., assignor of one-half to O. Miller, Porter, Minn. Draft-equalizer. No. 1,037,930; Sept. 10; Gaz. vol. 182; p. 287.
Kranich, Helene B. (See Kranich, Victor, assignor.)
Kranich, Victor, assignor to H. B. Kranich, New York, N. Y. Pneumatic piano-action. No. 1,038,601; Sept. 17; Gaz. vol. 182; p. 548.
Krantz, Ernest S., and J. W. Knuteson, Minneapolis, Minn. Print-drier. No. 1,036,268; Aug. 20; Gaz. vol. 181; p. 704.
Krantz, Frederick F. (See Weeks, Charlie E., assignor.)
Krantz, Hubert, New York, N. Y. Corner-iron for panel-boards. No. 1,047,084; Dec. 10; Gaz. vol. 185; p. 482.
Krantz, Hubert F., New York, N. Y. Metering-panel. No. 1,047,085; Dec. 10; Gaz. vol. 185; p. 482.
Krantz, Hubert F., New York, N. Y. Panel-board. No. 1,047,086; Dec. 10; Gaz. vol. 185; p. 483.
Krantz, Hubert F., New York, assignor to H. Krantz Manufacturing Company, Brooklyn, N. Y. Plug or lamp receptacle. No. 1,044,192; Nov. 12; Gaz. vol. 184; p. 432.
Kranz, Carl. (See Beilstein, William, assignor.)
Kranz, Peter, La Junta, Colo. Combination square and miter-marker. No. 1,040,214; Oct. 1; Gaz. vol. 183; p. 182.
Kranzberg, Benjamin. (See Lyles and Kranzberg.)
Kränzlein, Georg. (See Schmidt and Kränzlein.)
Kränzlein, Georg, assignor to Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany. Salmon-colored vat dyestuff and making same. No. 1,025,195; May 7; Sp. p. 187; Gaz. vol. 178; p. 32.
Krarup, Marius C., Brooklyn, N. Y. Power-transmission mechanism. No. 1,039,963; Oct. 1; Gaz. vol. 183; p. 97.
Krasberg, Rudolf, Poughkeepsie, N. Y. Collar-fastening device. No. 1,021,414; Mar. 26; Sp. p. 5140; Gaz. vol. 176; p. 930.
Krase, Herman C., Chicago, Ill. Lock for bascule-bridges. No. 1,042,238; Oct. 22; Gaz. vol. 183; p. 967.
Krassa, Paul, assignor to Chemische Fabrik Güstrow, Güstrow, Germany. Press for filtering fluids. No. 1,042,803; Oct. 29; Gaz. vol. 183; p. 1190.
Kratofill, John, Chicago, Ill. Safety device for air-craft. No. 1,039,295; Sept. 24; Gaz. vol. 182; p. 804.
Kratz, Franz, assignor to Firm of R. Bosch, Stuttgart, Germany. Electric-current indicator. No. 1,048,179; Dec. 24; Gaz. vol. 185; p. 924.
Krätzig, Fritz, Nieder-Lichtenau, Germany. Horseshoe. No. 1,048,180; Dec. 24; Gaz. vol. 185; p. 924.
Krauch, Flora E., Indianapolis, Ind. Garment-support. No. 1,041,104; Oct. 15; Gaz. vol. 183; p. 550.
Kraus, Charles A. (See Keyes and Kraus.)
Kraus, Charles A., Newton Highlands, Mass. Joint. No. 1,046,084; Dec. 3; Gaz. vol. 185; p. 98.
Kraus, Charles A., Newton Highlands, Mass. Joint. No. 1,046,085; Dec. 3; Gaz. vol. 185; p. 98.
Kraus, Charles A., Newton Highlands, Mass. Vapor-arc circuit-breaker. No. 1,046,086; Dec. 3; Gaz. vol. 185; p. 98.
Kraus, Charles A., Newton Highlands, Mass. Joint. No. 1,046,416; Dec. 3; Gaz. vol. 185; p. 217.
Kraus, Charles A., Newton Highlands, and R. D. Mailey, Lynn, Mass. Vapor electric apparatus. No. 1,046,081; Dec. 3; Gaz. vol. 185; p. 97.
Kraus, Charles A., Newton Highlands, and R. D. Mailey, Lynn, Mass. Vapor electric apparatus. No. 1,046,082; Dec. 3; Gaz. vol. 185; p. 97.
Kraus, Charles A., Newton Highlands, and R. D. Mailey, Lynn, Mass. Vapor electric apparatus. No. 1,046,083; Dec. 3; Gaz. vol. 185; p. 97.
Kraus, Edward L., Slatington, Pa. Folding-desk blackboard. No. 1,015,498; Jan. 23; Sp. p. 4524; Gaz. vol. 174; p. 913.
Kraus, Edward L., Slatington, Pa. Blackboard. No. 1,026,809; May 21; Sp. p. 3780; Gaz. vol. 178; p. 654.
Kraus Engine Company. (See Kraus, Otto, assignor.)
Kraus, Ernest, Lynn, Mass., assignor to General Electric Company. Cryolite-rutile composition. No. 1,045,985; Dec. 3; Gaz. vol. 185; p. 64.
Kraus, Otto, assignor to Kraus Engine Company, New York, N. Y. Apparatus for producing working fluids. No. 1,032,550; July 16; Gaz. vol. 180; p. 671.
Kraus, Rudolf, New York, N. Y. Hand-comb. No. 1,040,357; Oct. 8; Gaz. vol. 183; p. 260.
Kraus, Willibald, Selby, S. D. Stove. No. 1,041,306; Oct. 15; Gaz. vol. 183; p. 619.
Krause, August, Jamaica Plain, Mass. Device for operating sliding doors. No. 1,032,148; July 9; Gaz. vol. 180; p. 489.
Krause, Edmund, Waidmannslust, Germany, assignor to General Electric Company. System of motor control. No. 1,025,812; May 7; Sp. p. 1539; Gaz. vol. 178; p. 244.
Krause, Francis A., Hingham, Mass. Car-truck. No. 1,035,018; Aug. 6; Gaz. vol. 181; p. 205.
Krause, Francis A., Hingham, Mass. Car-coupling. No. 1,041,488; Oct. 15; Gaz. vol. 183; p. 678.
Krause, Harry A., Philadelphia, Pa. Trolley. No. 1,022,144; Apr. 2; Sp. p. 834; Gaz. vol. 177; p. 132.
Krause, Hermann, St. Louis, Mo., assignor to H. Scarborough, Sr., Chicago, Ill. Bottle-washer. No. 1,022,199; Apr. 2; Sp. p. 947; Gaz. vol. 177; p 151.
Krause, Otto, Berlin, Germany, assignor, by mesne assignments, to General Electric Company. Metallic-filament lamp. No. 1,041,817; Oct. 22; Gaz. vol. 183; p. 826.
Krauskopf, Oscar, Fredericksburg, Tex. Tube-clamp. No. 1,027,423; May 28; Sp. p. 5156; Gaz. vol. 178; p. 904.
Kraut, Hans B., Chicago, Ill., assignor, by mesne assignments, to Joseph T. Ryerson & Son. Punching and shearing machine. No. 1,035,092; Aug. 6; Gaz. vol. 181; p. 230.
Kraut, Hans B., assignor to Joseph T. Ryerson & Son, Chicago, Ill. Punching and shearing machine. No. 1,035,093; Aug. 6; Gaz. vol. 181; p. 230.
Kraut, Hans B., assignor to Joseph T. Ryerson & Son, Chicago, Ill. Shearing or punching machine. No. 1,035,094; Aug. 6; Gaz. vol. 181; p. 231.
Kraut, Hans B., assignor to Joseph T. Ryerson & Son, Chicago, Ill. Punching-machine. No. 1,035,095; Aug. 6; Gaz. vol. 181; p. 231.
Kraut, Hans B., assignor to Joseph T. Ryerson & Son, Chicago, Ill. Hand shearing-machine. No. 1,035,096; Aug. 6; Gaz. vol. 181; p. 232.

Krauth, Albert, Hamilton, Ohio. Autographic register. No. 1,045,986; Dec. 3; Gaz. vol. 185; p. 64.
Krauth, Albert, assignor to Krauth & Benninghofen, Hamilton, Ohio. Autographic register. No. 1,042,009; Oct. 22; Gaz. vol. 183; p. 891.
Krauth & Benninghofen. (See Krauth, Albert, assignor.)
Krautheim, Alexander, Frankfort-on-the-Main, Germany. Arrangement for filing loose leaves. No. 1,020,990; Mar. 26; Sp. p. 4226; Gaz. vol. 176; p. 785.
Krautter, Gottleib A. and W. M., Marion, Ohio. Spring-tire for automobiles or other vehicles. No. 1,047,538; Dec. 17; Gaz. vol. 185; p. 676.
Krautter, William M. (See Krautter, Gottlieb A. and W. M.)
Krauze, Stanislaw, Warsaw, Russia. Inverted burner. No. 1,015,692; Jan. 23; Sp. p. 5750; Gaz. vol. 174; p. 979.
Kraxberger, William A., and H. J. Laker, Dalton, Mo. Automatic poultry-feeder. No. 1,016,637; Feb. 6; Sp. p. 938; Gaz. vol. 175; p. 140.
Krayer, Christian J. (See Simmons and Berzon, assignors.)
Krebs, Arthur C., assignor to Société Anonyme des Anciens Etablissements Panhard & Levassor, Paris, France. Valve for explosion-engines. No. 1,019,488; Mar. 5; Sp. p. 1122; Gaz. vol. 176; p. 164.
Krebs, Daniel W., Watts, Cal. Guard for hens' nests. No. 1,044,193; Nov. 12; Gaz. vol. 184; p. 432.
Krebs, Ernst T., Carson City, Nev. Mouth-gag. No. 1,036,497; Aug. 20; Gaz. vol. 181; p. 783.
Krech, Frederick W., *et al.* (See Beebe, Frank, assignor.)
Kreger, Herman G., Dodge City, Kans. Wrench. No. 1,019,806; Mar. 12; Sp. p. 1721; Gaz. vol. 176; p. 301.
Kreher, Ernest, Tampa, Fla. Dipper-dredge. No. 1,023,660; Apr. 16; Sp. p. 4040; Gaz. vol. 177; p. 708.
Kreher, Ernest, Tampa, Fla. Steel rotor for centrifugal pumps. No. 1,032,287; July 9; Gaz. vol. 180; p. 538.
Kreher, Ernest, Tampa, Fla. Thrust-bearing. No. 1,036,270; Aug. 20; Gaz. vol. 181; p. 705.
Kreider, Charles D., Lititz, Pa. Knockdown table. No. 1,028,741; June 4; Sp. p. 1459; Gaz. vol. 179; p. 225.
Kreidl, Ignaz, Vienna, Austria-Hungary. Producing a filler for white enamels. No. 1,024,405; Apr. 23; Sp. p. 5667; Gaz. vol. 177; p. 987.
Kreidler, Anton, Stuttgart, Germany. Device for annealing metallic articles. No. 1,038,901; Sept. 17; Gaz. vol. 182; p. 654.
Kreiling, Charles, *et al.* (See Hills, William C., assignor.)
Kreith, Béla, Budapest, Austria-Hungary. Combined firearm and boxer. No. 1,023,741; Apr. 16; Sp. p. 4171; Gaz. vol. 177; p. 732.
Kreitzburg, Earnest J., *et al.* (See Griffinberg, John W., assignor.)
Krell, Albert, assignor to Krell Auto-Grand Piano Co. of America, Connersville, Ind. Panel-operating device. No. 1,015,029; Jan. 16; Sp. p. 4323; Gaz. vol. 174; p. 727.
Krell, Albert, assignor to Krell Auto-Grand Piano Co., Connersville, Ind. Pneumatic musical instrument. No. 1,021,785; Apr. 2; Sp. p. 62; Gaz. vol. 177; p. 13.
Krell, Albert, Connersville, Ind., and P. Welin, Worcester, Mass., assignors to Krell Auto-Grand Piano Co. of America, Connersville, Ind. Tone-softening device for musical instruments. No. 1,032,844; July 16; Gaz. vol. 180; p. 772.
Krell Auto-Grand Piano Co. of America. (See Krell, Albert, assignor.)
Krell Auto-Grand Piano Co. of America. (See Krell and Welin, assignors.)
Krell Auto-Grand Piano Co. of America, The. (See Welin, Peter, assignor.)
Kremer, Alphons, Gulfport, Miss. Valve. No. 1,033,326; July 23, Gaz. vol. 180; p. 973.
Kremer, Caroline, Gulfport, Miss. Shirt. No. 1,039,144; Sept. 24; Gaz. vol. 182; p. 750.
Kremer, Franklin W., Carlstadt, N. J. Rubber heel. No. 1,044,540; Nov. 19; Gaz. vol. 184; p. 581.
Kremer, Henry O. (See Boyd, John W., assignor.)
Kremer, John C., and A. H. Fox, assignors to A. H. Fox Gun Company, Philadelphia, Pa. Fore-arm lock for guns. No. 1,029,374; June 11; Sp. p. 2842; Gaz. vol. 179; p. 478.
Kremin, William F., St. Louis, Mo. Window-awning. No. 1,032,008; July 9; Gaz. vol. 180; p. 443.
Krempel, Christian. (See Singer, Joseph, assignor.)
Krentler Arnold Hinge Last Company. (See Krentler, Edwin O., assignor.)
Krentler, Edwin O., assignor to Krentler Arnold Hinge Last Company, Detroit, Mich. Last-lock. No. 1,017,058; Feb. 13; Sp. p. 1841; Gaz. vol. 175; p. 319.
Krenz, Frank A., assignor of one-half to J. B. Flanagan, St. Paul, Minn. Safety device for elevators. No. 1,024,085; Apr. 23; Sp. p. 4960; Gaz. vol. 177; p. 878.
Kress, Frank E., Denver, Colo. Folding tooth-brush. No. 1,033,022; July 16; Gaz. vol. 180; p. 830.
Kress, Ira D., Los Angeles, Cal. Package-fastener. No. 1,027,858; May 28; Sp. p. 6084; Gaz. vol. 178; p. 1048.
Kressin, John, Milwaukee, Wis. Overcheck-guide. No. 1,018,117; Feb. 20; Sp. p. 4200; Gaz. vol. 175; p. 722.
Kretchmer, Edward, Council Bluffs, Iowa. Silo. No. 1,016,506; Feb. 6; Sp. p. 620; Gaz. vol. 175; p. 94.
Kretol Company, The. (See Bensinger, Forbes R., assignor.)
Kretzer, Nicholas, Indianapolis, Ind. Coin-controlled lock. No. 1,025,143; May 7; Sp. p. 67; Gaz. vol. 178; p. 12.
Kretzschmar, August O., Endicott, N.Y. Tooth-brush. No. 1,025,751; May 7; Sp. p. 1417; Gaz. vol. 178; p. 222.
Kretzschmar, Gustav, Paauilo, Hawaii. Geographical clock. No. 1,015,195; Jan. 16; Sp. p. 4638; Gaz. vol. 174; p. 782.
Kreunen, Garret H., Cedar Grove, Wis. Combined stove and water-heater. No. 1,014,760; Jan. 16; Sp. p. 3712; Gaz. vol. 174; p. 634.
Krevis, Emil A., Chicago, Ill. Tie-holder. No. 1,019,489; Mar. 5; Sp. p. 1123; Gaz. vol. 176; p. 164.
Krick, George F. (See Wright and Krick.)
Kricke, Charles, Beardstown, Ill. Holder for ink-wells. No. 1,042,353; Oct. 22; Gaz. vol. 183; p. 1004.
Krider, Edward A., Decatur, Nebr. Wagon-hub. No. 1,021,610; Mar. 26; Sp. p. 5543; Gaz. vol. 176; p. 995.
Krieger, Andrew, Columbus, Ohio. Detachable saw-tooth. No. 1,048,181; Dec. 24; Gaz. vol. 185; p. 924.
Krieger, Andrew, Columbus, Ohio. Detachable saw-tooth. No. 1,048,182; Dec. 24; Gaz. vol. 185; p. 925.
Krieger, Ferdinand, assignor to Zundmetall-Gesellschaft m. b. H., Berlin, Germany. Pyrophorous metal. No. 1,023,661; Apr. 16; Sp. p. 4043; Gaz. vol. 177; p. 709.
Krieger, Louis B., *et al.* (See Tank, Henry P., assignor.)
Kriegh, Chancie C., Ossian, Ind. Tool for grinding both fields of bifocal lenses simultaneously. No. 1,015,030; Jan. 16; Sp. p. 4325; Gaz. vol. 174; p. 727.
Kriegsmann, Hans, Leipzig-Anger, Germany. Machine for artificially lengthening the barbs of ornamental feathers. No. 1,022,093; Apr. 2; Sp. p. 724; Gaz. vol. 177; p. 115.
Kriesel, Gustave F., Minneapolis, Minn. Clutch for cheese-cutters. No. 1,014,652; Jan. 16; Sp. p. 3483; Gaz. vol. 174; p. 597.
Krimmling, Fredrick, New York, N. Y. Jewel-setting tool. No. 1,045,299; Nov. 26; Gaz. vol. 184; p. 874.
Kriner, Lonzo D., assignor of one-half to A. V. Johnson, Alliance, Ohio. Nut-lock. No. 1,040,215; Oct. 1; Gaz. vol. 183; p. 183.
Kripinger, Joseph, Brainards, N. J. Lubricator. No. 1,023,662; Apr. 16; Sp. p. 4043; Gaz. vol. 177; p. 709.
Krischer, Max, New York, N. Y. Garment-clasp. No. 1,045,042; Nov. 19; Gaz. vol. 184; p. 757.
Krischer, Nathan A., New York, N. Y. Collar-support. No. 1,013,783; Jan. 2; Sp. p. 1523; Gaz. vol. 174; p. 242.
Kristofek, Frank J., assignor to Cruver Manufacturing Company, Chicago, Ill. Bill-file. No. 1,041,818; Oct. 22; Gaz. vol. 183; p. 827.
Kristofferson, Charles L., Spearfish, S. D. Antifraud tobacco-tin. No. 1,013,405; Jan. 2; Sp. p. 695; Gaz. vol. 174; p. 110.
Kriszt, János, Budapest, assignor to J. Arak, Kispest, Austria-Hungary. Charcoal flat-iron. No. 1,040,216; Oct. 1; Gaz. vol. 183; p. 183.
Kriszt, John, assignor to Mistress L. Fehér, (maiden name Helene Csaki,) Budapest, Austria-Hungary. Flat-iron. No. 1,013,663; Jan. 2; Sp. p. 1264; Gaz. vol. 174; p. 199.
Krivacic, Peter, Whiting, Ind. Railway-spike. No. 1,048,839; Dec. 31; Gaz. vol. 185; p. 1188.
Krnka, Karl, Hirtenberg, Austria-Hungary. Automatic firearm. No. 1,018,914; Feb. 27; Sp. p. 5945; Gaz. vol. 175; p. 1024.
Krnka, Sylvestre, Paris, France. Bottle-sealing device. No. 1,029,450; June 11; Sp. p. 3010; Gaz. vol. 179; p. 504.
Kroder, John, New York, N. Y. Curtain-fixture. No. 1,019,662; Mar. 5; Sp. p. 1436; Gaz. vol. 176; p. 221.
Kroeh, Charles F., Orange, N. J. Hen's nest and yard. No. 1,021,873; Apr. 2; Sp. p. 263; Gaz. vol. 177; p. 42.
Kroehler, Peter E., Naperville, Ill. Sofa bed, couch, &c. No. 1,044,059; Nov. 12; Gaz. vol. 184; p. 386.
Kroehler, Peter E., Naperville, Ill. Sofa bed, couch, &c. No. 1,046,417; Dec. 3; Gaz. vol. 185; p. 217.
Kroeschell Bros. Co. (See Kroeschell, Charles, assignor.)
Kroeschell, Charles, assignor to Kroeschell Bros. Co., Chicago, Ill. Steam-boiler. No. 1,035,607; Aug. 13; Gaz. vol. 181; p. 439.
Kroeze, John W., Burlingame, Cal. Sanding-machine. No. 1,030,473; June 25; Sp. p. 5274; Gaz. vol. 179; p. 935.
Kroeze, John W., Burlingame, Cal. Sanding-machine. No. 1,042,354; Oct. 22; Gaz. vol. 183; p. 1004.
Krogoll, Gustav R. von, Seattle, Wash. Fry-cake and doughnut cooker. No. 1,025,630; May 7; Sp. p. 1177; Gaz. vol. 178; p. 181.
Krohn, Gustave A., Coarsegold, and E. M. Arreagada, San Francisco, assignors to The Ideal Power Generator Company, Raymond, Cal. Power-generator. No. 1,019,164; Mar. 5; Sp. p. 351; Gaz. vol. 176; p. 55.
Krohn, John, Chicago, Ill. Driving mechanism for electrically-propelled vehicles. No. 1,032,068; July 9; Gaz. vol. 180; p. 463.
Krohn, John, Chicago, Ill., assignor to American Can Company, New York, N. Y. Sheet-metal-vessel-making machine. No. 1,020,560; Mar. 19; Sp. p. 3296; Gaz. vol. 176; p. 589.

Alphabetical list of patentees—Continued.

Krohn, John O. E., Chicago, Ill. Package of commodity. No. 1,028,888; June 11; Sp. p. 1777; Gaz. vol. 179; p. 311.
Kröhne, Gustav, Duisburg, Germany. Magnetic lifting appliance. No. 1,047,954; Dec. 24; Gaz. vol. 185; p. 849.
Krom, Alva H., Chicago, Ill. Lighting-fixture. No. 1,047,087; Dec. 10; Gaz. vol. 185; p. 483.
Kron, Edmund, Milwaukee, Wis. Antiskidding device for automobiles. No. 1,023,255; Apr. 16; Sp. p. 3233; Gaz. vol. 177; p. 578.
Kronberger, Joe, Coney Island, assignor of one-half to L. Z. Schulhof, New York, N. Y. Switch-box. No. 1,024,902; Apr. 30; Sp. p. 6802; Gaz. vol. 177; p. 1196.
Krone, Heinrich, Münder, Germany. Drop-bottle. No. 1,041,105; Oct. 15; Gaz. vol. 183; p. 551.
Kronenberger, Annie K., New York, assignor of one-half to R. Stewart, Brooklyn, N. Y. Combination-garment. No. 1,014,653; Jan. 16; Sp. p. 3485; Gaz. vol. 174; p. 598.
Kronenberger, Ferdinand, Corona, assignor to The Aladdin Manufacturing Company, Brooklyn, N. Y. Churn. No. 1,018,505; Feb. 27; Sp. p. 5036; Gaz. vol. 175; p. 886.
Kronenberger, Ferdinand, Corona, assignor to The Alladin Manufacturing Company, Brooklyn, N. Y. Butter substitute and making the same. No. 1,024,009; Apr. 23; Sp. p. 4794; Gaz. vol. 177; p. 851.
Kroner, Frank A., Lynn, Mass., assignor to General Electric Company. Vapor electric device. No. 1,042,565; Oct. 29; Gaz. vol. 183; p. 1106.
Kronert, Max, Bozeman, Mont. Micrometer-feed mechanism. No. 1,027,549; May 28; Sp. p. 5394; Gaz. vol. 178; p. 945.
Kronheim, Jacob, and Z. B. Csiky, Cleveland, Ohio. Convertible sofa chair and couch. No. 1,043,112; Nov. 5; Gaz. vol. 184; p. 23.
Kronthal, Louis. (See Minkoff and Kronthal.)
Kröpelin, Franz, Düren, Germany. Chain grate. No. 1,046,087; Dec. 3; Gaz. vol. 185; p. 99.
Kropp, Walter. (See Hiemenz and Kropp.)
Kros, Jean G., Essen-Ruhr, Germany. Regenerative coke-oven. No. 1,015,964; Jan. 30; Sp. p. 6317; Gaz. vol. 174; p. 1099.
Krosnowski, Stanislaw M., St. Petersburg, Russia. Apparatus for treating cotton fabrics. No. 1,020,294; Mar. 12; Sp. p. 2734; Gaz. vol. 176; p. 463.
Krotz, Alvaro S., Chicago, Ill. Internal-combustion engine. No. 1,016,335; Feb. 6; Sp. p. 225; Gaz. vol. 175; p. 35.
Krotz, Alvaro S., assignor to Sears, Roebuck & Company, Chicago, Ill. Vehicle driving and braking means. No. 1,021,197; Mar. 26; Sp. p. 4650; Gaz. vol. 176; p. 852.
Krotz, Alvaro S., assignor to Sears, Roebuck & Company, Chicago, Ill. Automobile. No. 1,040,697; Oct. 8; Gaz. vol. 183; p. 382.
Kruck, Walter A., Camden, N. J. Pneumatic action for self-playing pianos. No. 1,027,257; May 21; Sp. p. 4798; Gaz. vol. 178; p. 809.
Kruck, Walter A., Camden, N. J. Pneumatic piano-action. No. 1,045,710; Nov. 26; Gaz. vol. 184; p. 1021.
Kruczynski, Mike, Elyria, Ohio. Electric rat-trap. No. 1,038,902; Sept. 17; Gaz. vol. 182; p. 654.
Krueger, Albert J., North Branch, Minn. Jeweler's tool. No. 1,047,658; Dec. 17; Gaz. vol. 185; p. 719.
Krueger, August C., Portland, Oreg. Wall-bed. No. 1,045,987; Dec. 3; Gaz. vol. 185; p. 65.
Krueger, Emil, Milwaukee, Wis. Coin-holding pocket for covers. No. 1,025,631; May 7; Sp. p. 1178; Gaz. vol. 178; p. 181.
Krueger, John W., Darwin, Minn. Combined mop holder and wringer. No. 1,049,242; Dec. 31; Gaz. vol. 185; p. 1325.
Krueger, Louis. (See Porter and Krueger.)
Krueger, Martin L., St. Louis, Mo. Smoke-consuming furnace. No. 1,018,830; Feb. 27; Sp. p. 5778; Gaz. vol. 175; p. 998.
Krueger, Otto H., Los Angeles, Cal. Grate. No. 1,028,943; June 11; Sp. p. 1903; Gaz. vol. 179; p. 329.
Krueger, Samuel, Fredericksburg, Tex. Fly-trap. No. 1,048,082; Dec. 24; Gaz. vol. 185; p. 891.
Krug, Louis. (See Weis and Krug.)
Krug, Marie A., Chicago, Ill. Valve-guard for stoves. No. 1,021,198; Mar. 26; Sp. p. 4651; Gaz. vol. 176; p. 853.
Krüger, Charles H., Bradford, and C. W. Collinson, Baildon, England. Lamp and reflectors for same. No. 1,027,737; May 28; Sp. p. 5777; Gaz. vol. 178; p. 1007.
Kruger, Charles M., Hannibal, Mo. Vapor-generator. No. 1,042,355; Oct. 22; Gaz. vol. 183; p. 1005.
Krüger, Georg, Gross-Lichterfelde, near Berlin, Germany. Combined adding apparatus and pencil-box. No. 1,028,227; June 4; Sp. p. 372; Gaz. vol. 179; p. 52.
Kruger, Harry B. (See Stranders, Julien, assignor.)
Krüger, Paul, Friedland-Mecklenburg, Germany, assignor to H. V. Lund, Clinton, Iowa. Game apparatus. No. 1,034,716; Aug. 6; Gaz. vol. 181; p. 105.
Kruger, Traugott P., New York, N. Y. Eraser-holder. No. 1,028,034; May 28; Sp. p. 6456; Gaz. vol. 178; p. 1106.
Kruger, William A., executor. (See Wriedt, George E.)
Krub, Osias O., Schenectady, N. Y., assignor to General Electric Company. Vapor electric apparatus. No. 1,029,375; June 11; Sp. p. 2843; Gaz. vol. 179; p. 478.
Kruh, Osias O., Schenectady, N. Y., assignor to General Electric Company. Vapor electric apparatus. No. 1,032,914; July 16; Gaz. vol. 180; p. 794.
Krulan, Michael, Paterson, N. J., and A. P. Lauster, New York, N. Y.; said Lauster assignor to said Krulan. Reel and supporting device for lines. No. 1,043,943; Nov. 12; Gaz. vol. 184; p. 347.
Krulish, John, Boise, Idaho. Pipe-pulling machine. No. 1,031,185; July 2; Gaz. vol. 180; p. 120.
Krumming, Reinhold, Milwaukee, Wis. Temporary binder or loose-sheet holder. No. 1,017,220; Feb. 13; Sp. p. 2216; Gaz. vol. 175; p. 376.
Krumming, Reinhold, Milwaukee, Wis. Temporary binder or loose-sheet holder. No. 1,020,561; Mar. 19; Sp. p. 3303; Gaz. vol. 176; p. 589.
Krumming, Reinhold, Milwaukee, Wis. Cover-holder for books. No. 1,037,024; Aug. 27; Gaz. vol. 181; p. 992.
Krumming, Reinhold, Milwaukee, Wis. Binder or holder for sheets or pads. No. 1,039,296; Sept. 24; Gaz. vol. 182; p. 805.
Krupp, Leo A., Carey, Ohio, assignor of one-half to Peat Industries, Limited, Montreal, Canada. Excavating-machine. No. 1,043,113; Nov. 5; Gaz. vol. 184; p. 23.
Krupp, Smith F. (See Brooks and Krupp.)
Krupp, Smith F., Memphis, Tenn. Cotton-gin brush. No. 1,018,327; Feb. 20; Sp. p. 4620; Gaz. vol. 175; p. 793.
Kruse, John, St. Louis, Mo. Alarm-clock. No. 1,041,307; Oct. 15; Gaz. vol. 183; p. 619.
Kruse, John F., Denver, Colo. Portable vapor-bath cabinet. No. 1,038,394; Sept. 10; Gaz. vol. 182; p. 441.
Kruse, Peter, New York, assignor to E. W. Bliss Company, Brooklyn, N. Y. Machine for making can-bodies. No. 1,046,088; Dec. 3; Gaz. vol. 185; p. 99.
Kruse, Theodore H., Arvada, Colo. Fence-post mold. No. 1,022,484; Apr. 9; Sp. p. 1541; Gaz. vol. 177; p. 277.
Kruse, Theodore H., Arvada, Colo. Railway-rail. No. 1,032,221; July 9; Gaz. vol. 180; p. 515.
Krusi, Emma. (See Krusi, John, assignor.)
Krusi, John, New York, N. Y., assignor, by mesne assignments, to Multiplex Shuttle Embroidering Machine Company. Multiplex-shuttle embroidering-machine. No. 1,017,421; Feb. 13; Sp. p. 2635; Gaz. vol. 175; p. 446.
Krusi, John, assignor to E. Krusi, New York, N. Y. Shuttle embroidering-machine. No. 1,017,422; Feb. 13; Sp. p. 2638; Gaz. vol. 175; p. 446.
Kruskopf, Hermann, Dortmund, Germany. Fire-extinguishing device for localizing coal-dust explosions. No. 1,022,368; Apr. 2; Sp. p. 1281; Gaz. vol. 177; p. 206.
Krutsch, Willis W., assignor of one-fourth to C. O. Ross and one-fourth to M. B. Shuffiin, Coffeyville, Kans. Vehicle-wheel. No. 1,037,931; Sept. 10; Gaz. vol. 182; p. 287.
Krynock, John, Duquesne, Pa. Tie and rail-fastener. No. 1,029,376; June 11; Sp. p. 2845; Gaz. vol. 179; p. 478.
Kryshtofovich, Theodore T., St. Louis, Mo. Transmission of electric power. No. 1,015.196; Jan. 16; Sp. p. 4639; Gaz. vol. 174; p. 782.
Krzan, Anton, Chicago, Ill. Box. No. 1,019,490; Mar. 5; Sp. p. 1124; Gaz. vol. 176; p. 165.
Krzewinski, Mikolaj, Los Angeles, Cal., assignor of one-half to C. Boczkowski. Lunch-heater. No. 1,045,857; Dec. 3; Gaz. vol. 185; p. 22.
Krzyzak, Stefan. (See Glowacki and Krzyzak.)
Kubicek, Josef, Prague, Okla. Hat-pin-point protector. No. 1,023,663; Apr. 16; Sp. p. 4045; Gaz. vol. 177; p. 709.
Kubik, Andrew, McKees Rocks, Pa. Splice-bar. No. 1,017,156; Feb. 13; Sp. p. 2064; Gaz. vol. 175; p. 355.
Kubinyi, Jozsef, Canonsburg, Pa. Hat-pin-point protector and fastener. No. 1,037,025; Aug. 27; Gaz. vol. 181; p. 992.
Kubish, John, Indian Orchard, Mass. Flying-machine. No. 1,027,258; May 21; Sp. p. 4800; Gaz. vol. 178; p. 809.
Kublin, Vincent, New York, N. Y. Envelop moistening and sealing device. No. 1,031,346; July 2; Gaz. vol. 180; p. 175.
Kuechler, Gusta C., Sacramento, Cal. Centrifugal pump. No. 1,022,425; Apr. 9; Sp. p. 1431; Gaz. vol. 177; p. 256.
Kuehl, John, Clintonville, Wis. Plow attachment. No. 1,046,807; Dec. 10; Gaz. vol. 185; p. 392.
Kuehl, Joseph, and J. Stefanowski, Detroit, Mich. Spring-wheel. No. 1,026,810; May 21; Sp. p. 3782; Gaz. vol. 178; p. 654.
Kuehn, Alfred, Chicago, Ill. Traction-wheel mounting. No. 1.048.322; Dec. 24; Gaz. vol. 185; p. 971.
Kuehn, Paul, assignor to Shareholders Protective League, Limited, Detroit, Mich. Amalgamator. No. 1,019,054; Mar. 5; Sp. p. 89; Gaz. vol. 176; p. 18.
Kuehner, Hermann R., Camden, N. J. Lever for flush-tanks. No. 1,017,423; Feb. 13; Sp. p. 2641; Gaz. vol. 175; p. 447.
Kuehner, John H., St. Paul, Minn. Attachable runner for wheel-vehicles. No. 1,044,789; Nov. 19; Gaz. vol. 184; p. 671.
Kuen, Charles W., assignor to Rand, McNally & Company, Chicago, Ill. Numbering attachment for printing-presses. No. 1,021,466; Mar. 26; Sp. p. 5259; Gaz. vol. 176; p. 948.

Alphabetical list of patentees—Continued.

Kuenholdt, Charles, assignor to O. A. Pfeil, Milwaukee, Wis. Burner-shade support. No. 1,013,943; Jan. 9; Sp. p. 1912; Gaz. vol. 174; p. 325.
Kuenzel, Charles A., Buena Vista, Colo. Airship. No. 1,038,602; Sept. 17; Gaz. vol. 182; p. 549.
Kuenzel, Charles A., Buena Vista, Colo. Gas-generator. No. 1,039,549; Sept. 24; Gaz. vol. 182; p. 893.
Kuenzel, Charles A., Buena Vista, Colo., assignor to The Kuenzel Gas Producer & Smelter Construction Co. Gas-producer. No. 1,042,566; Oct. 29; Gaz. vol. 183; p. 1107.
Kuenzel, Charles A., Buena Vista, Colo., assignor to The Kuenzel Gas Producer & Smelter Construction Co. Producing combustible gas. No. 1,042,567; Oct. 29; Gaz. vol. 183; p. 1107.
Kuenzel Gas Producer & Smelter Construction Co., The. (See Kuenzel, Charles A., assignor.)
Kuester, Hugo W., Denver, Colo. Astrological chart and indicator therefor. No. 1,019,663; Mar. 5; Sp. p. 1437; Gaz. vol. 176; p. 222.
Kugel, John, Grand Rapids, Mich. Music-rack. No. 1,013,784; Jan. 2; Sp. p. 1524; Gaz. vol. 174; p. 242.
Kügelgen, Franz von. (See Seward, Kügelgen, and Bidder.)
Kugler, George D. (See Herbst, Roger R., assignor.)
Kuhl, Albert F., Van Wert, Ohio. Mechanical toy. No. 1,038,603; Sept. 17; Gaz. vol. 182; p. 549.
Kuhlke, Martin D., *et al.* (See Childs, Wilbur T., assignor.)
Kuhlmann, Frederick J. P., San Francisco, assignor to F. Kent, Oakland, Cal. Loose-leaf binder. No. 1,033,107; July 23; Gaz. vol. 180; p. 898.
Kuhlmann, Karl, Berlin-Pankow, and H. Müller, Berlin, Germany, assignors to General Electric Company. Induction-motor. No. 1,019,491; Mar. 5; Sp. p. 1126; Gaz. vol. 176; p. 165.
Kuhn, Charles, *et al.* (See Molnár, Steve, assignor.)
Kuhn, Frank, Detroit, Mich. Electric cooking utensil. No. 1,047,088; Dec. 10; Gaz. vol. 185; p. 484.
Kuhn, Frank, assignor to American Electrical Heater Company, Detroit, Mich. Electric foot-warmer. No. 1,025,144; May 7; Sp. p. 71; Gaz. vol. 178; p. 13.
Kuhn, Frank, and F. E. Shailor, assignors to American Electrical Heater Company, Detroit, Mich. Electric switch. No. 1,036,126; Aug. 20; Gaz. vol. 181; p. 653.
Kuhn, Frank, and F. E. Shailor, assignors to American Electrical Heater Company, Detroit, Mich. Electric heater. No. 1,037,932; Sept. 10; Gaz. vol. 182; p. 287.
Kuhn, Harry S., Waynesboro, Pa. Vise. No. 1,022,953; Apr. 9; Sp. p. 2572; Gaz. vol. 177; p. 437.
Kuhn, Joseph, assignor to Joseph Mayer & Bros., Seattle, Wash. Driving mechanism for clocks. No. 1,037,643; Sept. 3; Gaz. vol. 182; p. 157.
Kuhn, Louis F., Cananea, Mexico. Cinder-car. No. 1,047,659; Dec. 17; Gaz. vol. 185; p. 720.
Kuhn, Louis F., Cananea, Mexico. Casing for vehicle-springs. No. 1,047,660; Dec. 17; Gaz. vol. 185; p. 720.
Kuhn, Max, and R. Netter, New York, N. Y.; said Netter assignor to said Kuhn. Taximeter. No. 1,039,416; Sept. 24; Gaz. vol. 182; p. 845.
Kuhn, Max, and R. Netter, New York, N. Y.; said Netter assignor to said Kuhn. Controlling device. No. 1,046,808; Dec. 10; Gaz. vol. 185; p. 392.
Kühne, Martin, Brooklyn, N. Y. Metal lath. No. 1,042,127; Oct. 22; Gaz. vol. 183; p. 930.
Kuhns, Benovill A., Wilmington, Del. Refrigerator. No. 1,016,336; Feb. 6; Sp. p. 229; Gaz. vol. 175; p. 35.
Kuhns, James H. (See Mechling, Thomas, and Kuhns.)
Kuhns, John P., assignor to National Tag Company, Dayton, Ohio. Shipping-tag-making machine. No. 1,047,089; Dec. 10; Gaz. vol. 185; p. 484.
Kuhns, William H., Miamisburg, Ohio. Combined fertilizer-distributer and pulverizer. No. 1,013,298; Jan. 2; Sp. p. 471; Gaz. vol. 174; p. 73.
Kühtz, Friedrich, Cannstatt-Stuttgart, Germany. Baker's oven. No. 1,029,134; June 11; Sp. p. 2314; Gaz. vol. 179; p. 394.
Kuinders, Ferdinand C., Seattle, Wash. Tooth-brush. No. 1,040,959; Oct. 8; Gaz. vol. 183; p. 466.
Kulawik, Louis. (See Nalepka, Walenty, assignor.)
Kulikowski, Franceszek, *et al.* (See Kuna, Vincent J., assignor.)
Kull, Samuel B., New York, N. Y. Railway-tie. No. 1,036,860; Aug. 27; Gaz. vol. 181; p. 937.
Kummer, John W., and G. Jorgensen, Vancouver, British Columbia, Canada. Rail-seat on tie. No. 1,031,938; July 9; Gaz. vol. 180; p. 420.
Kummer, John W., and G. Jorgensen, Vancouver, British Columbia, Canada. Means for securing rails to ties. No. 1,039,417; Sept. 24; Gaz. vol. 182; p. 846.
Kumming, Emil A. (See Smith and Kumming.)
Kun, Bertalan, *et al.* (See Klemovics, Janos, assignor.)
Kuna, Vincent J., assignor of one-fifth to F. Kulikowski and one-fifth to F. Mrugala, Hastings, Pa. Tie and rail-fastener. No. 1,034,918; Aug. 6; Gaz. vol. 181; p. 173.
Kündig, Gottlieb, Niederönz, near Herzogenbuchsee, Switzerland. Grinding-machine. No. 1,032,686; July 16; Gaz. vol. 180; p. 719.
Kundtz, Theodor. (See Cogger, William B., assignor.)
Kundtz, Theodor, Lakewood, and A. Schuster, Cleveland, Ohio; said Schuster assignor to said Kundtz. Sewing-machine table. No. 1,026,400; May 14; Sp. p. 2893; Gaz. vol. 178; p. 480.
Kunert, Felix. (See Laska, Zitscher, and Kunert.)
Kung, George, *et al.* (See Frank, Edward H., assignor.)
Kunicki, Henry F., and M. Swiecicki, Philadelphia, Pa. Telephone and telegraph contact for movable bodies. No. 1,025,701; May 7; Sp. p. 1315; Gaz. vol. 178; p. 204.
Kunieski, Henry F., and M. Swiecicki, Philadelphia, Pa. Trolley. No. 1,018,198; Feb. 20; Sp. p. 4370; Gaz. vol. 175; p. 750.
Kunkel, Albert R., Palestine, Tex. Oil-burner. No 1,016,018; Jan. 30; Sp. p. 6429; Gaz. vol. 174; p. 1119.
Kunkel, Albert R., Palestine, Tex. Apparatus for burning fuel-oil. No. 1,039,297; Sept. 24; Gaz. vol. 182; p. 805.
Kunkel, Fred R., Edgewood Park, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Reversible induction-motor. No. 1,024,635; Apr. 30; Sp. p. 6261; Gaz. vol. 177; p. 1102.
Kunkel, Fred R., Edgewood Park, Pa., assignor to Westinghouse Electric and Manufacturing Company. Massage apparatus. No. 1,029,697; June 18; Sp. p. 3532; Gaz. vol. 179; p. 626.
Kunkey, Samuel D., assignor to V. A. Carringer, Caldwell, Idaho. Crude-oil burner. No. 1,040,217; Oct. 1; Gaz. vol. 183; p 183.
Kunkle, James F., Midway, assignor of one-half to J. A. Crowley, McDonald, Pa. Gate. No. 1,047,248; Dec. 17; Gaz. vol. 185; p. 572.
Kuntz, John L., Omaha, Nebr. Corner-piece for frames. No. 1,016,278; Feb. 6; Sp. p. 101; Gaz. vol. 175; p. 15.
Kunysz, Tomasz, Spring Valley, Ill. Cuspidor. No. 1,035,201; Aug. 13; Gaz. vol. 181; p. 298.
Kunz, Emil, and O. E. Hodge, Ruston, La. Fly-catcher. No. 1,019,008; Feb. 27; Sp. p. 6166; Gaz. vol. 175; p. 1058.
Kunz, Jean, Cronberg-in-the-Taunus, Germany. Mechanical hammer. No. 1,046,809; Dec. 10; Gaz. vol. 185; p. 393.
Kunz, Joseph C. (See Hall, James A., assignor.)
Kunze, Edward, Jr. (See Illmer and Kunze.)
Kunzelman, John R., Gordon, Wis. Insect-escape for screens. No. 1,020,830; Mar. 19; Sp. p. 3890; Gaz. vol. 176; p. 680.
Künzli, Arthur, Leipzig, Germany. Condenser or pump. No. 1,013,499; Jan. 2; Sp. p. 897; Gaz. vol. 174; p. 143.
Kuphal, Helen, executrix. (See Kuphal, Otto.)
Kuphal, Otto, deceased; H. Kuphal, executrix, assignor of one-half to A. Stamm, New York, N. Y. Apparatus for cooling and refrigeration. No. 1,036,528; Aug. 20; Gaz. vol. 181; p. 794.
Kupke, Friedrich W., Gera, Germany. Self-tightening chuck. No. 1,043,114; Nov. 5; Gaz. vol. 184; p. 23.
Kupp, William A., assignor to F. Engelhardt & Sons, St. Johnsville, N. Y. Organ-pipe attachment for auto-pneumatic pianos. No. 1,046,610; Dec. 10; Gaz. vol. 185; p. 322.
Kupp, William J., Pittsburgh, Pa. Tie and rail-fastener. No. 1,022,790; Apr. 9; Sp. p. 2226; Gaz. vol. 177; p. 381.
Kurda, Karl, Charlottenburg, assignor to Siemens-Schuckert Werke G. m. b. H., Berlin, Germany. Step-by-step insulation for electric conductors or the like. No. 1,039,298; Sept. 24; Gaz. vol. 182; p. 806.
Kuring, August, and G. Hoffman, Chicago, Ill. Fan attachment for rocking-chairs. No. 1,027,859; May 28; Sp. p. 6085; Gaz. vol. 178; p. 1049.
Kurowski, Alfred G. F., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 1,018,915; Feb. 27; Sp. p. 5948; Gaz. vol. 175; p. 1025.
Kurowski, Alfred G. F., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 1,021,153; Mar. 26; Sp. p. 4558; Gaz. vol. 176; p. 838.
Kurre, August, Brooklyn, N. Y. Egg-marking attachment for hens. No. 1,037,644; Sept. 3; Gaz. vol. 182; p. 157.
Kurrus, Charles G., *et al.* (See Petz, Egnaz, assignor.)
Kurrus, Frank J., *et al.* (See Petz, Egnaz, assignor.)
Kursheedt, Alphonse H. (See Groebli, Joseph A., assignor.)
Kursheedt Manufacturing Company, The. (See Rink, Fredrick, assignor.)
Kursheedt Manufacturing Company, The. (See Taylor, George H., assignor.)
Kürsten, Eduard P., Leipzig, Germany. Convertible perambulator and bag. No. 1,022,094; Apr. 2; Sp. p. 726; Gaz. vol. 177; p. 116.
Kurt, J. A. (See Vessels, Clarence C., assignor.)
Kurtz, Charles T. (See Hoover and Kurtz.)
Kurtz, John S., Earl township, Lancaster county, Pa. Tongue-support. No. 1,048,976; Dec. 31; Gaz. vol. 185; p. 1235.
Kurtz, Lloyd E., Sharpsburg, assignor to The Duff Manufacturing Company, Pittsburgh, Pa. Lifting-jack. No. 1,044,194; Nov. 12; Gaz. vol. 184; p. 432.

Alphabetical list of patentees—Continued.

Kurtzon, Morris, Chicago, Ill. Lock for show-cases. No. 1,017,978; Feb. 20; Sp. p. 3892; Gaz. vol. 175; p. 673.
Kurz, Gustave A., Zanesville, and H. C. Shonting, Columbus, Ohio. Combination garment. No. 1,031,719; July 9; Gaz. vol. 180; p. 344.
Kurz, Joseph, New York, N. Y. Box-protector. No. 1,022,745; Apr. 9; Sp. p. 2139; Gaz. vol. 177; p. 367.
Kurz, Joseph, New York, N. Y. Box-protector. No. 1,022,746; Apr. 9; Sp. p. 2140; Gaz. vol. 177; p. 367.
Kurz, Otto. (See Foyer and Kurz.)
Kurz, Otto, Chicago, Ill., assignor to Bay State Metal Wheel Company, East Templeton, Mass. Collapsible go-cart. No. 1,035,976; Aug. 20; Gaz. vol. 181; p. 599.
Kurzawskey, Albert, Nanticoke, Pa. Rail-joint. No. 1,038,156; Sept. 10; Gaz. vol. 182; p. 361.
Kuschel, Frank C. (See Tyler, Charles A., assignor.)
Kusebauch, Anton. (See Foell, Kusebauch, and Neckerman.)
Kusebauch, Anton, Pittsburgh, Pa., assignor to Nernst Lamp Company. Means for holding globes. No. 1,037,779; Sept. 3; Gaz. vol. 182; p. 201.
Kuss, Arthur J., Mojave, Cal. Music-leaf turner. No. 1,019,492; Mar. 5; Sp. p. 1128; Gaz. vol. 176; p. 165.
Kustner Frères. (See Clerc, François, assignor.)
Kutch, Melcherd H., Terre Haute, Ind. Vaginal douche-cup. No. 1,033,808; July 30; Gaz. vol. 180; p. 1157.
Kutter, Herman L., assignor of one-half to F. C. Trowbridge, Hamilton, Ohio. Paper-making machine. No. 1,028,573; June 4; Sp. p. 1112; Gaz. vol. 179; p. 169.
Kutyla, Joseph, McDonald, Pa. Semaphore-signal. No. 1,042,128; Oct. 22; Gaz. vol. 183; p. 930.
Kutz, Elmer A., Reading, Pa. Door-fastener. No. 1,030,192; June 18; Sp. p. 4615; Gaz. vol. 179; p. 795.
Kužel, Hans, Baden, near Vienna, Austria-Hungary, assignor to General Electric Company. Manufacturing incandescent-lamp filaments. No. 1,030,666; June 25; Sp. p. 5876; Gaz. vol. 179; p. 1005.
Kužel, Hans, Baden, near Vienna, Austria-Hungary, assignor to General Electric Company. Manufacturing incandescence bodies. No. 1,037,268; Sept. 3; Gaz. vol. 182; p. 31.
Kvitrud, Gilbert. (See Jones, Earle M., assignor.)
Kwarnstrom, John, New York, N. Y. Hat-holder. No. 1,014,156; Jan. 9; Sp. p. 2369; Gaz. vol. 174; p. 396.
Kwiatkosky, Wicety, Elizabeth, Pa. Nutcracker. No. 1,017,424; Feb. 13; Sp. p. 2643; Gaz. vol. 175; p. 447.
Kwiatkowski, Jacob, assignor of one-half to J. Thomas, one-fourth to J. Hink, and one-fourth to L. Hink, Winnipeg, Manitoba, Canada. Device for securing rails to ties. No. 1,031,939; July 9; Gaz. vol. 180; p. 420.
Kwiatkowski, Jacob, assignor of one-half to J. Thomas, one-fourth to J. Hink, and one-fourth to L. Hink, Winnipeg, Manitoba, Canada. Hat-pin protector. No. 1,031,940; July 9; Gaz. vol. 180; p. 421.
Kyle, E. Bryan, *et al.* (See Wisner, Andrew J., assignor.)
Kyle, Elmer L. (See Matthews and Kyle.)
Kyle, George B., Philadelphia, Pa. Horseshoe. No. 1,019,493; Mar. 5; Sp. p. 1130; Gaz. vol. 176; p. 166.
Kyle, Hattie, Parkinson, Mont. Cake-mixer. No. 1,019,055; Mar. 5; Sp. p. 91; Gaz. vol. 176; p. 18.
Kyle, John W., San Diego, Cal. Life-net holder. No. 1,020,146; Mar. 12; Sp. p. 2420; Gaz. vol. 176; p. 413.
Kyriakides, Lucas P., and R. B. Earle, assignors to Hood Rubber Company, Boston, Mass. Producing piperylene. No. 1,033,179; July 23; Gaz. vol. 180; p. 923.
Kyriakides, Lucas P., and R. B. Earle, assignors to Hood Rubber Company, Boston, Mass. Producing isoprene. No. 1,033,180; July 23; Gaz. vol. 180; p. 923.
Kyriakides, Lucas P., and R. B. Earle, assignors to Hood Rubber Company, Boston, Mass. Producing erythrene. No. 1,033,327; July 23; Gaz. vol. 180; p. 973.
Kyriakides, Lucas P., and R. B. Earle, assignors to Hood Rubber Company, Boston, Mass. Producing $\gamma\ \beta$ dimethylbutadiene 1.3. No. 1,033,328; July 23; Gaz. vol. 180; p. 974.
Kyyny, August, Monessen, Pa. Attachment for foot-power-operating machines. No. 1,040,698; Oct. 8; Gaz. vol. 183; p. 383.
L. Wolff Manufacturing Company. (See Clifford, John, assignor.)
L. Wolff Manufacturing Company. (See Gavin, John H., assignor.)
L. C. Smith and Bros. Typewriter Company. (See Gabrielson, Carl, assignor.)
L. E. Knott Apparatus Company. (See Knott, Louie E., assignor.)
L. E. Schlotterback Manufacturing Co. (See Schlotterback, Lewis E., assignor.)
L. H. Mace Company. (See Gwyer, Herbert J., assignor.)
L. J. Mueller Furnace Co. (See Mueller, Louis J., Jr., assignor.)
L. S. Donaldson Company. (See Mitchell and Colburn, assignors.)
L'Air Liquide, Société Anonyme pour l'Etude et l'Exploitation des Procédés Georges Claude. (See Claude, Georges, assignor.)
L'Engle, William J., New Orleans, La. Turpentine-cup. No. 1,017,297; Feb. 13; Sp. p. 2364; Gaz. vol. 175; p. 403.
L'Engle, William J., New Orleans, La. Turpentine-cup. No. 1,017,679; Feb. 20; Sp. p. 3151; Gaz. vol. 175; p. 568.
L'Hommedieu, George A., Atlantic City, N. J. Picture-frame support. No. 1,019,670; Mar. 5; Sp. p. 1451; Gaz. vol. 176; p. 224.
La Barr, Frank B., Los Angeles, Cal., assignor to E. J. Barker, Morgan Park, Ill. Printing-press. No. 1,021,050; Mar. 26; Sp. p. 4345; Gaz. vol. 176; p. 806.
La Batt, William D. (See Swett and La Batt.)
La Borde, John F. (See Williams and La Borde.)
La Borde, John F., and P. K. Williams, Columbus, Ohio. Shoe-gumming machine. No. 1,019,494; Mar. 5; Sp. p. 1131; Gaz. vol. 176; p. 166.
La Chance, Leander H., assignor to Chicago Flexible Shaft Company, Chicago, Ill. Animal-shears. No. 1,037,933; Sept. 10; Gaz. vol. 182; p. 288.
La Chapelle, Euclid I., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Gripper. No. 1,014,710; Jan. 16; Sp. p. 3602; Gaz. vol. 174; p. 617.
La Chapelle, Fred, Lynn, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Attachment for chain-stitch sewing-machines. No. 1,030,736; June 25; Sp. p. 6039; Gaz. vol. 179; p. 1029.
La Chapelle, Fred, Lynn, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Chain-stitch seam and making chain-stitches. No. 1,030,784; June 25; Sp. p. 6191; Gaz. vol. 179; p. 1047.
La Chapelle, Fred, Ashland, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Lock-stitch shoe-sewing machine. No. 1,048,549; Dec. 31; Gaz. vol. 185; p. 1087.
La Cie. Industrielle des Alcools de l'Ardèche. (See Raisin, Victor, assignor.)
La Compagnie pour La Fabrication des Compteurs et Materiel D'Usines À Gaz. (See Heeley, George, assignor.)
La Cour, Carl, Hubbard, Iowa. Resilient metal wheel-rim. No. 1,038,903; Sept. 17; Gaz. vol. 182; p. 654.
La Cour, Jens L., Vesterås, Sweden. Means for regulating polyphase commutator-machines. No. 1,047,955; Dec. 24; Gaz. vol. 185; p. 849.
La Crosse Plow Company. (See Cameron, William W., assignor.)
La Due, Edward J., Pontiac, Ill. Scale. No. 1,025,145; May 7; Sp. p. 71; Gaz. vol. 178; p. 13.
La Fave, Joseph H., Defiance, Ohio. Bilge-barrel. No. 1,040,358; Oct. 8; Gaz. vol. 183; p. 260.
La Fevre, Walter H., Baltimore, Md. Cue-tip holder. No. 1,040,362; Oct. 8; Gaz. vol. 183; p. 262.
La Follette, Joseph, Portland, Oreg. Combination bevel-protractor. No. 1,028,742; June 4; Sp. p. 1460; Gaz. vol. 179; p. 225.
La Hodny, William, Buffalo, N. Y. Polishing-machine. No. 1,026,321; May 14; Sp. p. 2711; Gaz. vol. 178; p. 454.
La May, Arthur C., Rochester, N. Y. Machine for delivering and operating screws. No. 1,031,348; July 2; Gaz. vol. 180; p. 176.
La May, Arthur C., Rochester, N. Y. Fire-extinguisher. No. 1,044,668; Nov. 19; Gaz. vol. 184; p. 627.
La May, Arthur C., assignor to R. Bannard and T. J. Swanton, Rochester, N. Y. Currency cutting and signing machine. No. 1,029,199; June 11; Sp. p. 2445; Gaz. vol. 179; p. 416.
La Moine, Barthlemew J., and J. P. Shafer, Niagara, Wis. Wood-barking machine. No. 1,043,608; Nov. 5; Gaz. vol. 184; p. 200.
La Mont Power Producer and Economizing Device Company. (See La Mont, Samuel, assignor.)
La Mont, Samuel, assignor to La Mont Power Producer and Economizing Device Company, Trenton, N. J. Fluid-mixer for gasolene-engines. No. 1,029,810; June 18; Sp. p. 3778; Gaz. vol. 179; p. 665.
La Mountain, George C., Marshalltown, Iowa. Trimmer for phonograph-records. No. 1,032,338; July 9; Gaz. vol. 180; p. 555.
La Mountain, George C., assignor to R. P. Scott, Marshalltown, Iowa. Steam-trap. No. 1,028,744; June 4; Sp. p. 1463; Gaz. vol. 179; p. 226.
La Paugh, Louie T., Utica, N. Y. Hair-drying apparatus. No. 1,019,808; Mar. 12; Sp. p. 1724; Gaz. vol. 176; p. 302.
La Paugh, Louie T., Utica, N. Y. Spike. No. 1,031,349; July 2; Gaz. vol. 180; p. 176.
La Plant, Henry. (See Waltz, William E., assignor.)
La Société Anonyme Wolokno Schewelin. (See Schewelin, Wladimir, assignor.)
La Société d'Exploitation de Procédés Evaporatoires, Système Prache et Bouillon. (See Prache, Charles L., assignor.)
La Société Ribayron & Victor. (See Victor, Alexandre, assignor.)
La Tier, James D., Waterloo, Iowa. Vertical-swing door for silos. No. 1,046,611; Dec. 10; Gaz. vol. 185; p. 322.
La Tier, James D., Waterloo, Iowa. Brace connection for silo-doorways. No. 1,046,612; Dec. 10; Gaz. vol. 185; p. 323.
La Vergne, Jules, Sr. (See Shier and La Vergne.)

Alphabetical list of patentees—Continued.

Laage, Ernest A. E., Osakis, Minn. Hand or power cement-tile machine. No. 1,047,419; Dec. 17; Gaz. vol. 185; p. 633.
Labecki, Leopold, Perth Amboy, N. J. Trap. No. 1,039,299; Sept. 24; Gaz. vol. 182; p. 806.
Labit, Girard E., Galveston, Tex. Blind-stop. No. 1,024,994; Apr. 30; Sp. p. 6990; Gaz. vol. 177; p. 1228.
Labombarde, Elie W., Nashua, N. H. Blank for folding boxes. No. 1,021,874; Apr. 2; Sp. p. 265; Gaz. vol. 177; p. 43.
Labonté, Walter, Chicopee, Mass. Self-threading shuttle. No. 1,014,309; Jan. 9; Sp. p. 2700; Gaz. vol. 174; p. 451.
Lace, Edward, Chicago, Ill. Gambrel. No. 1,044,060; Nov. 12; Gaz. vol. 184; p. 387.
Lacene Manufacturing Company. (See Nichols, Elmer P., assignor.)
Lacer, Louis F., Anadarko, Okla. Tool-set. No. 1,019,259; Mar. 5; Sp. p. 552; Gaz. vol. 176; p. 88.
Lacey, Francis H., Richland, Mo. Resilient wheel. No. 1,025,473; May 7; Sp. p. 819; Gaz. vol. 178; p. 128.
Lachenmeyer, Paul, Lansdowne, Pa. Producing stippled photographic records. No. 1,046,089; Dec. 3; Gaz. vol. 185; p. 99.
Lachman, Laurence S., New York, N. Y. Electric welding. No. 1,020,991; Mar. 26; Sp. p. 4227; Gaz. vol. 176; p. 785.
Lachman, Laurence S., New York, N. Y. Cooking utensil. No. 1,034,805; Aug. 6; Gaz. vol. 181; p. 136.
Lachman, Laurence S., New York, assignor to Universal Electric Welding Company, Long Island City, N. Y. Electric welding. No. 1,038,604; Sept. 17; Gaz. vol. 182; p. 549.
Lachman, Laurence S., assignor to Universal Electric Welding Company, New York, N. Y. Frame for packing-boxes. No. 1,044,667; Nov. 19; Gaz. vol. 184; p. 626.
Lachman, Maurice, New York, N. Y. Pipe or culvert. No. 1,043,944; Nov. 12; Gaz. vol. 184; p. 347.
Lachner, Martin, Brunswick, Germany. Gas-stove. No. 1,024,585; Apr. 30; Sp. p. 6127; Gaz. vol. 177; p. 1084.
Lachtrop, George C., Cincinnati, Ohio. Ironing-board attachment. No. 1,016,337; Feb. 6; Sp. p. 231; Gaz. vol. 175; p. 35.
Lackawanna Steel Company. (See Buckingham, Walter E., assignor.)
Lacke, William A., Chicago, Ill. Block-signal system. No. 1,045,043; Nov. 19; Gaz. vol. 184; p. 757.
Lackey, Robert A., Oak Park, Ill. Window-operating mechanism. No. 1,046,202; Dec. 3; Gaz. vol. 185; p. 138.
Lackner, Frederick, assignor to Neely Nut and Bolt Company, Pittsburgh, Pa. Nut-machine. No. 1,039,145; Sept. 24; Gaz. vol. 182; p. 750.
Lacroix, Fernand, Paris, France. Electrolysis of metallic solutions. No. 1,019,969; Mar. 12; Sp. p. 2052; Gaz. vol. 176; p. 355.
Lacroix, Joseph, Fall River, assignor to The Double Spring Shuttle Company, New Bedford, Mass. Hand-threading shuttle. No. 1,039,964; Oct. 1; Gaz. vol. 183; p. 98.
Lacroix, Joseph D. (See Switzer and Lacroix.)
Lacroix, Joseph D., Baltimore, Md., assignor to The Wilson Distilling Company, New York, N. Y. Non-refillable bottle. No. 1,032,915; July 16; Gaz. vol. 180; p. 795.
Lacy, Burritt S., Dubuque, Iowa. Nursing-bottle nipple. No. 1,031,720; July 9; Gaz. vol. 180; p. 345.
Lacy, Edward A. (See Webster and Lacy.)
Lacy, James I. (See Webster and Lacy.)
Lacy, John J., and S. Diamond, Perth Amboy, N. J. Funnel. No. 1,036,271; Aug. 20; Gaz. vol. 181; p. 705.
Lacy, Thomas W., Kansas City, Mo. Acetylene-gas generator. No. 1,014,010; Jan. 9; Sp. p. 2055; Gaz. vol. 174; p. 347.
Ladd & Baker. (See Ladd, James B., assignor.)
Ladd, James B., Philadelphia, Pa., assignor to Ladd & Baker, Incorporated. Furnace-charging mechanism. No. 1,036,272; Aug. 20; Gaz. vol. 181; p. 706.
Ladd, James B., and D. Baker, Philadelphia, Pa. Furnace construction. No. 1,027,738; May 28; Sp. p. 5780; Gaz. vol. 178; p. 1007.
Ladd, Samuel S., Tallahatchie county, Miss. Road-grader. No. 1,035,451; Aug. 13; Gaz. vol. 181; p. 386.
Ladd, Story B., Washington, D. C. Smelting sulfid ores. No. 1,035,608; Aug. 13; Gaz. vol. 181; p. 439.
Lademan, Otto T., Milwaukee, Wis., assignor to Railway Telephone & Electric Company, Chicago, Ill. Composite system. No. 1,038,605; Sept. 17; Gaz. vol. 182; p. 550.
Ladley, Charles W., Ingram, Pa. Nipple-cover. No. 1,018,831; Feb. 27; Sp. p. 5780; Gaz. vol. 175; p. 998.
Ladoff, Anna M., *et al.* (See Ladoff, Isador, assignor.)
Ladoff, Isador, Cleveland, Ohio, assignor of thirty one-hundredths to P. C. Peck, New York, N. Y. Electrode or pencil for the arc-light. No. 1,017,005; Feb. 13; Sp. p. 1724; Gaz. vol. 175; p. 301.
Ladoff, Isador, Cleveland, Ohio, assignor of thirty one-hundredths to P. C. Peck, New York, N. Y. Apparatus for producing the arc-light. No. 1,019,901; Mar. 12; Sp. p. 1918; Gaz. vol. 176; p. 334.
Ladoff, Isador, Cleveland, Ohio, assignor of thirty one-hundredths to P. C. Peck, New York, N. Y. Arc-light electrode or pencil. No. 1,022,426; Apr. 9; Sp. p. 1433; Gaz. vol. 177; p. 257.
Ladoff, Isador, Cleveland, Ohio, assignor of thirty one-hundredths to P. C. Peck, New York, N. Y. Arc-light electrode. No. 1,025,407; May 7; Sp. p. 663; Gaz. vol. 178; p. 104.
Ladoff, Isador, Cleveland, Ohio, assignor, by mesne assignments, of thirty one-hundredths to W. D. Edmonds, Booneville, N. Y. Electrode for illuminating purposes. No. 1,033,762; July 23; Gaz. vol. 180; p. 1114.
Ladoff, Isador, Cleveland, Ohio, assignor, by mesne assignments, of thirty one-hundredths to W. D. Edmonds, Boonville, N. Y. Alloy and producing the same. No. 1,040,699; Oct. 8; Gaz. vol. 183; p. 383.
Ladoff, Isador, Cleveland, Ohio, assignor, by mesne assignments, of thirty one-hundredths to W. D. Edmonds, Boonville, N. Y. Producing alloys or compounds of titanium and copper. No. 1,042,694; Oct. 29; Gaz. vol. 183; p. 1153.
Ladoff, Isador, Cleveland, Ohio, assignor of fifteen one-hundredths to W. D. Edmonds, Boonville, fifteen one-hundredths to P. C. Peck, New York, N. Y., and seventy one-hundredths to A. M. Ladoff. Electrical conductor for lighting purposes. No. 1,019,902; Mar. 12; Sp. p. 1919; Gaz. vol. 176; p. 334.
Ladoff, Isador, Schenectady, assignor of fifteen one-hundredths to W. D. Edmonds, Boonville, fifteen one-hundredths to P. C. Peck, New York, and seventy one-hundredths to A. M. Ladoff, Schenectady, N. Y. Electrical conductor for lighting purposes. No. 1,019,970; Mar. 12; Sp. p. 2054; Gaz. vol. 176; p. 355.
Ladwig, Charles A. (See Hartig and Ladwig.)
Ladwig, Charles F., Macon, Mo. Elevator-truck. No. 1,029,758; June 18; Sp. p. 3670; Gaz. vol. 179; p. 647.
Laessele, Albert. (See Howlett and Laessele.)
Laeufer, Jacob, Lima, assignor to H. K. Halladay, Findlay, Ohio. Rail-chair. No. 1,018,247; Feb. 20; Sp. p. 4466; Gaz. vol. 175; p. 767.
Lafeuille, Fernand, Charmes, France. Sugar-crystallizer. No. 1,016,019; Jan. 30; Sp. p. 6431; Gaz. vol. 174; p. 1119.
Lafeuille, Fernand, Charmes, France. Drying apparatus. No. 1,026,683; May 21; Sp. p. 3505; Gaz. vol. 178; p. 612.
Lafeuille, Jules C. F., Charmes, near La Fère, France. Drying apparatus for bagasse. No. 1,023,157; Apr. 16; Sp. p. 3038; Gaz. vol. 177; p. 545.
Lafontaine, Alonzo and R., St. Stanislas, Quebec, Canada. Internal-combustion engine. No. 1,019,495; Mar. 5; Sp. p. 1134; Gaz. vol. 176; p. 166.
Lafontaine, Rosario. (See Lafontaine, Alonzo and R.)
Laford, William. (See Ray and Laford.)
Laforêt, Jean, Valence, France. Shuttle-brake. No. 1,021,199; Mar. 26; Sp. p. 4652; Gaz. vol. 176; p. 853.
Lafors, John. (See Burch, Jacob M., assignor.)
Lafreniere, Edward, Lynn, Mass. Protecting-cover for shoes. No. 1,038,395; Sept. 10; Gaz. vol. 182; p. 442.
Lagarde, Everette S., and P. A. Angenend, Jr., Houston, Tex. Bit-frame. No. 1,023,021; Apr. 9; Sp. p. 2696; Gaz. vol. 177; p. 460.
Lagarde, Everette S., and P. A. Angenend, Jr., Houston, Tex. Illuminated vest or coat button. No. 1,030,516; June 25; Sp. p. 5396; Gaz. vol. 179; p. 950.
Lage, Minnie, Gladbrook, Iowa. Apparel-shoe heel. No. 1,027,659; May 28; Sp. p. 5622; Gaz. vol. 178; p. 981.
Lagerström, Ernst H., Stockholm, Sweden. Pneumatic hammer. No. 1,017,562; Feb. 13; Sp. p. 2918; Gaz. vol. 175; p. 493.
Lageson, Knut J., Benson, Minn. Cover for vehicle-wheels. No. 1,048,183; Dec. 24; Gaz. vol. 185; p. 925.
Lagrange, Prosper. (See Kestner and Lagrange.)
Lague, George E., North Attleboro, Mass. Auxiliary burner for gas-stoves. No. 1,040,552; Oct. 8; Gaz. vol. 183; p. 328.
Laible, Philip D., Newark, N. J. Bottle-closure. No. 1,036,861; Aug. 27; Gaz. vol. 181; p. 937.
Laible, Philip D., Newark, N. J. Bottle-washing attachment. No. 1,046,470; Dec. 10; Gaz. vol. 185; p. 272.
Laidley, Samuel C., Chicago, Ill. Flushing-valve. No. 1,042,568; Oct. 29; Gaz. vol. 183; p. 1107.
Lain, Charles A., and E. W. Jennings, assignors of one-third to A. A. Dickens, High Point, N. C. Displaying device for advertisements. No. 1,017,563; Feb. 13; Sp. p. 2919; Gaz. vol. 175; p. 494.
Lain, David E. (See Fox, Simon J., assignor.)
Laine, Walter R., Los Angeles, Cal. Blade-protecting knife. No. 1,024,086; Apr. 23; Sp. p. 4964; Gaz. vol. 177; p. 878.
Laing, Andrew, Newcastle-upon-Tyne, England. Liquid-fuel furnace. No. 1,025,279; May 7; Sp. p. 374; Gaz. vol. 178; p. 60.
Laing, Archie R. (See Fotheringham and Laing.)
Laing, Archie R., *et al.* (See Gerhardt, John, assignor.)
Laingor, Jesse B., and G. J. Yerger, Kansas City, Mo. Air-craft. No. 1,021,105; Mar. 26; Sp. p. 4444; Gaz. vol. 176; p. 823.

Alphabetical list of patentees—Continued.

Laird, Wilbur G., assignor to The Improved Equipment Company, New York, N. Y. Apparatus for the manufacture of gas. No. 1,014,654; Jan. 16; Sp. p. 3486; Gaz. vol. 174; p. 598.
Laird, William A., Jr., Chambersburg, Pa. Plumb-bob carrier. No. 1,022,791; Apr. 9; Sp. p. 2227; Gaz. vol. 177; p. 382.
Laird, William H. (See Tropp, Bernhard, assignor.)
Laity, Asbury F., Madison, S. D. Milk-strainer. No. 1,023,664; Apr. 16; Sp. p. 4045; Gaz. vol. 177; p. 709.
Lajos, Ferenczy, Easton, Pa. Envelop. No. 1,013,785; Jan. 2; Sp. p. 1525; Gaz. vol. 174; p. 242.
Lake, Albert D., assignor of one-fourth to C. Boetting and one-fourth to L. Schnuettgen, Cripple Creek, Colo. Door-operating mechanism. No. 1,026,170; May 14; Sp. p. 2377; Gaz. vol. 178; p. 401.
Lake, Christopher J., Bridgeport, Conn. Combined reciprocating rotary engine. No. 1,014,401; Jan. 9; Sp. p. 2925; Gaz. vol. 174; p. 484.
Lake, Christopher J., Bridgeport, Conn. Propelling apparatus for aerial and other machines. No. 1,017,564; Feb. 13; Sp. p. 2920; Gaz. vol. 175; p. 494.
Lake, Christopher J., Bridgeport, Conn. Aeroboat. No. 1,041,489; Oct. 15; Gaz. vol. 183; p. 679.
Lake, Frank E., Guadalajara, Mexico. Steering apparatus for motor-vehicles. No. 1,031,347; July 2; Gaz. vol. 180; p. 175.
Lake, Franklin W., assignor of one-third to J. B. Cooke and one-third to R. N. F. McFarlane, Kingston, Ontario, Canada. Engine. No. 1,040,700; Oct. 8; Gaz. vol. 183; p. 383.
Lake, Golladay, Cleveland, Ohio. Gas-heater. No. 1,038,157; Sept. 10; Gaz. vol. 182; p. 362.
Lake, James G., Danville, Pa. Reel mechanism for picture-machines. No. 1,024,790; Apr. 30; Sp. p. 6581; Gaz. vol. 177; p. 1158.
Lake, John C. (See Collier, Clyde F., assignor.)
Lake, Simon, Milford, Conn. Internal-combustion engine. No. 1,026,871; May 21; Sp. p. 3906; Gaz. vol. 178; p. 675.
Lake Torpedo Boat Company, The. (See Peacock, Edward L., assignor.)
Lake, Wilmot, Washington, D. C. Hollow concrete wall. No. 1,020,919; Mar. 19; Sp. p. 4052; Gaz. vol. 176; p. 708.
Laker, Henry J. (See Kraxberger and Laker.)
Laker, John W. E., Victoria, British Columbia, Canada. Piano-hammer. No. 1,041,490; Oct. 15; Gaz. vol. 183; p. 679.
Lakhovsky, Georges, Paris, France. Liner for use in fixing screw-spikes in railway-sleepers. No. 1,028,743; June 4; Sp. p. 1461; Gaz. vol. 179; p. 225.
Lakin, Clarence W., Haverhill, Mass. Heel for shoes. No. 1,034,627; Aug. 6; Gaz. vol. 181; p. 74.
Lakosky, Charles, Cooks Mills, Mich. Rail-joint. No. 1,020,562; Mar. 19; Sp. p. 3307; Gaz. vol. 176; p. 590.
Laland, Arthur J., Mobile, Ala. Fare-register. No. 1,024,343; Apr. 23; Sp. p. 5514; Gaz. vol. 177; p. 966.
Lalli, John, Newark, N. J. Non-refillable bottle. No. 1,029,809; June 18; Sp. p. 3777; Gaz. vol. 179; p. 664.
Lally, George W., Boston, Mass. Dumping motor-vehicle. No. 1,018,118; Feb. 20; Sp. p. 4201; Gaz. vol. 175; p. 722.
Lally, George W., Boston, Mass. Auto garbage-truck. No. 1,018,119; Feb. 20; Sp. p. 4203; Gaz. vol. 175; p. 722.
Lally, George W., Boston, Mass. Side-dump autotruck. No. 1,024,636; Apr. 30; Sp. p. 6262; Gaz. vol. 177; p. 1102.
Lally, John T., assignor to U. S. Fire Apparatus Company, Wilmington, Del. Valve for fire-extinguishers. No. 1,027,344; May 21; Sp. p. 4973; Gaz. vol. 178; p. 838.
Lamar, Alexis L., assignor to W. and J. Barbee, Pittsburg, Kans. Baling-press. No. 1,038,904; Sept. 17; Gaz. vol. 182; p. 655.
Lamar, William J., assignor of one-half to J. S. Kirkpatrick, Kansas City, Mo. Automatic injector for boilers. No. 1,023,110; Apr. 9; Sp. p. 2886; Gaz. vol. 177; p. 491.
Lamarque, Luis, Habana, Cuba. Attachment for typewriters. No. 1,041,491; Oct. 15; Gaz. vol. 183; p. 679.
Lamarre, Arthur, and L. Fiala, Fall River, Mass. Washing-machine. No. 1,026,811; May 21; Sp. p. 3783; Gaz. vol. 178; p. 654.
Lamb, Bruce K., Bemis, W. Va. Wire-cable fastener. No. 1,022,954; Apr. 9; Sp. p. 2574; Gaz. vol. 177; p. 437.
Lamb, Charles C., Joliet, assignor of forty-nine one-hundredths to W. M. McEwen, Chicago, Ill. Rail-joint. No. 1,025,408; May 7; Sp. p. 664; Gaz. vol. 178; p. 104.
Lamb, Charles C., Joliet, assignor of forty-nine one-hundredths to W. M. McEwen, Chicago, Ill. Camera-stand. No. 1,032,614; July 16; Gaz. vol. 180; p. 692.
Lamb, Charles C., Joliet, assignor of forty-nine one-hundredths to W. M. McEwen, Chicago, Ill. Photographic apparatus. No. 1,035,977; Aug. 20; Gaz. vol. 181; p. 600.
Lamb, Charles C., Joliet, assignor of forty-nine one-hundredths to W. M. McEwen, Chicago, Ill. Attachment for cameras. No. 1,037,934; Sept. 10; Gaz. vol. 182; p. 288.
Lamb, Elden P., Camden, assignor to Camden Anchor-Rockland Machine Company, Rockland, Me. Float-feed carbureter. No. 1,020,915; Mar. 19; Sp. p. 4048; Gaz. vol. 176; p. 707.
Lamb, Eugene B., and F. C. Robinson, Portland, Me. Window-cleaning device. No. 1,035,796; Aug. 13; Gaz. vol. 181; p. 500.
Lamb, Fred B., Bettendorf, assignor of one-fourth to A. B. Frenier, Davenport, Iowa. Making steel. No. 1,036,498; Aug. 20; Gaz. vol. 181; p. 784.
Lamb, Fred B., Bettendorf, assignor of one-fourth to A. B. Frenier, Davenport, Iowa. Metallurgical furnace. No. 1,036,499; Aug. 20; Gaz. vol. 181; p. 784.
Lamb, Fred B., Bettendorf, assignor of one-fourth to A. B. Frenier, Davenport, Iowa. Metallurgical furnace. No. 1,036,500; Aug. 20; Gaz. vol. 181; p. 784.
Lamb, Henry A. (See Crowley and Lamb.)
Lamb, Herman L., Nashville, Tenn. Attachment for sewing-machines. No. 1,035,121; Aug. 6; Gaz. vol. 181; p. 239.
Lamb, Joseph F., New Britain, Conn. Molder's flask and band. No. 1,014,761; Jan. 16; Sp. p. 3713; Gaz. vol. 174; p. 634.
Lamb, Ralph, Liverpool, England. Swaging device for dental and other purposes. No. 1,044,892; Nov. 19; Gaz. vol. 184; p. 704.
Lambert, Antoine L., Concordia, Kans. Credit-accounting appliance. No. 1,030,785; June 25; Sp. p. 6193; Gaz. vol. 179; p. 1047.
Lambert, Asher, Newark, N. J. Dumping appliance for hoister-buckets. No. 1,034,806; Aug. 6; Gaz. vol. 181; p. 136.
Lambert, Asher, Newark, N. J. Duplex steam hoisting-engine and boiler. No. 1,043,441; Nov. 5; Gaz. vol. 184; p. 141.
Lambert, Floyd D., and R. R. Resch, Trinidad, Colo. Reversible rotary engine. No. 1,029,616; June 18; Sp. p. 3351; Gaz. vol. 179; p. 597.
Lambert, Frederick. (See Dickie, Lambert, and Stables.)
Lambert, Frederick C., New York, N. Y. Aeroplane. No. 1,024,941; Apr. 30; Sp. p. 6888; Gaz. vol. 177; p. 1210.
Lambert, George A., Anderson, Ind. Chain. No. 1,015,965; Jan. 30; Sp. p. 6319; Gaz. vol. 174; p. 1099.
Lambert, Gerard B., New York, N. Y. Vehicle-wheel. No. 1,022,369; Apr. 2; Sp. p. 1282; Gaz. vol. 177; p. 207.
Lambert, John W., Anderson, Ind. Power transmission. No. 1,013,786; Jan. 2; Sp. p. 1526; Gaz. vol. 174; p. 242.
Lambert, John W., assignor to The Buckeye Manufacturing Company, Anderson, Ind. Pedal-locking mechanism. No. 1,014,069; Jan. 9; Sp. p. 2194; Gaz. vol. 174; p. 367.
Lambert, John W., assignor to The Buckeye Manufacturing Company, Anderson, Ind. Power-transmission mechanism. No. 1,025,875; May 7; Sp. p. 1690; Gaz. vol. 178; p. 264.
Lambert, Lewis C., assignor to S. Haines, Tewksbury, Mass. Rod and bolt cutter. No. 1,045,414; Nov. 26; Gaz. vol. 184; p. 914.
Lambert, Milton. (See Mary and Lambert.)
Lambert, Robert C., Crawford, Nebr. Mail-receiver. No. 1,024,995; Apr. 30; Sp. p. 6992; Gaz. vol. 177; p. 1228.
Lamberton, Robert L., Sistersville, W. Va. Intermittent-grip device. No. 1,028,574; June 4; Sp. p. 1115; Gaz. vol. 179; p. 169.
Lamberton, Andrew, Coatbridge, Scotland. Two-high reversing rolling-mill and like machine. No. 1,024,475; Apr. 23; Sp. p. 5819; Gaz. vol. 177; p. 1011.
Lambeth Brass & Iron Company, The. (See Thomas, John, assignor.)
Lambie, Frank D. (See Stretch, Joseph, assignor.)
Lambries, George. (See McDonner, Charley, assignor.)
Lamdin, Herbert C., Egg Harbor City, N. J. Drinking-fountain for fowls. No. 1,014,490; Jan. 9; Sp. p. 3081; Gaz. vol. 174; p. 512.
Lamfrom, Leon B., *et al.* (See Wiese, Theodore L., assignor.)
Lamkin, Perry T., Whittaker, Mich. Post-puller. No. 1,017,425; Feb. 13; Sp. p. 2644; Gaz. vol. 175; p. 447.
Lamme, Benjamin G., Pittsburgh, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Dynamo-electric machine. No. 1,018,571; Feb. 27; Sp. p. 5236; Gaz. vol. 175; p. 910.
Lamme, Benjamin G., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Dynamo-electric machine. No. 1,031,009; July 2; Gaz. vol. 180; p. 56.
Lammine, Emil T., Mülheim-on-the-Rhine, Germany. Welded wrought-iron annealing-pot. No. 1,014,491; Jan. 9; Sp. p. 3081; Gaz. vol. 174; p. 512.
Lamont, John A., Granite City, Ill., assignor to American Steel Foundries, New York, N. Y. Car-bolster. No. 1,031,276; July 2; Gaz. vol. 180; p. 151.
Lamont, Robert P. (See Goldberg, Hyman E., assignor.)
Lamoreaux, Charles, Glassport, Pa. Scythe. No. 1,023,665; Apr. 16; Sp. p. 4047; Gaz. vol. 177; p. 710.
Lamoreaux, Charles, Charleston, W. Va. Valve. No. 1,041,636; Oct. 15; Gaz. vol. 183; p. 726.

Alphabetical list of patentees—Continued.

Lamort, Marcel, Vitry-le-François, France. Means for controlling the strainer-drums of paper-making machines. No. 1,040,553; Oct. 8; Gaz. vol. 183; p. 328.
Lamothe, Charles A. (See Gibeau and Hadley, assignors.)
Lamoureux, Arthur A., Manchester, N. H. Device for extracting sinews from flesh. No. 1,041,308; Oct. 15; Gaz. vol. 183; p. 619.
Lampel, Vincenz, Leipa, Austria-Hungary. Combined drawing-compasses and pencil-case. No. 1,028,228; June 4; Sp. p. 373; Gaz. vol. 179; p. 52.
Lampert, Carl, Frankfort-on-the-Main, Germany. Cooking articles of food. No. 1,024,637; Apr. 30; Sp. p. 6263; Gaz. vol. 177; p. 1103.
Lamplough, Frederick. (See Charley and Lamplough.)
Lamplough, Frederick, London, assignor to Lamplough and Son, Limited, Willesden Junction, England. Valveless rotary pump. No. 1,044,195; Nov. 12; Gaz. vol. 184; p. 432.
Lamplough and Son. (See Lamplough, Frederick, assignor.)
Lamprecht, Emil, Philadelphia, Pa. Gas-lighter. No. 1,029,135; June 11; Sp. p. 2316; Gaz. vol. 179; p. 395.
Lampton, John S. (See Bates and Lampton.)
Lamson Consolidated Store Service Company. (See Bartlett, Louis G., assignor.)
Lamson Consolidated Store Service Company. (See Cowley, James T., assignor.)
Lamson Consolidated Store Service Company. (See Fernald, Hiram T., assignor.)
Lamson Consolidated Store Service Company. (See Jennings, Chester S., assignor.)
Lamson Consolidated Store Service Company. (See Maclaren, James G., assignor.)
Lamson Consolidated Store Service Company. (See Pearsall, Albert W., assignor.)
Lamson Consolidated Store Service Company. (See Skirrow, John F., assignor.)
Lamson Consolidated Store Service Company. (See Stoddard, Charles F., assignor.)
Lamson Consolidated Store Service Company. (See Taisey, Fred R., assignor.)
Lamson, Paul W., Louisville, Ky., assignor to G. W. Osborn, Cleveland, Ohio. Emery-wheel dresser. No. 1,036,273; Aug. 20; Gaz. vol. 181; p. 706.
Lamson, Walter C., Moorestown, N. J. Bin. No. 1,046,810; Dec. 10; Gaz. vol. 185; p. 393.
Lanaux, Alfred A., Beaumont, Tex., assignor of one-eighth to P. H. Brown, New Orleans, La., and B. A. Steinhagen, and three-eighths to W. P. H. McFaddin, Beaumont, Tex. Apparatus for treating granular materials. No. 1,042,929; Oct. 29; Gaz. vol. 183; p. 1233.
Lancaster, Charles P., assignor of one-fourth to W. M. Cory and one-fourth to O. L. Harris, Marion, Ind. Railway-rail joint. No. 1,021,200; Mar. 26; Sp. p. 4653; Gaz. vol. 176; p. 853.
Lancaster, George W., Richmond, Va. Telephone cabinet or hood. No. 1,014,492; Jan. 9; Sp. p. 3082; Gaz. vol. 174; p. 512.
Lancaster, George W., Richmond, Va. Telephone-cabinet. No. 1,025,813; May 7; Sp. p. 1542; Gaz. vol. 178; p. 244.
Lancaster, Joe E., *et al.* (See Valentine, Levi J., assignor.)
Lancaster, Samuel C., Seattle, Wash. Dumping-vehicle. No. 1,047,249; Dec. 17; Gaz. vol. 185; p. 573.
Lancaster, T. C., *et al.* (See Schweinebraten, Louis G., assignor.)
Lance, Andrew M., assignor of one-half to A. F. Haynie, Batson, Tex. Nut-lock. No. 1,026,812; May 21; Sp. p. 3784; Gaz. vol. 178; p. 655.
Lance, Ora L., Corvallis, Oreg. Automatic railway-switch. No. 1,029,200; June 11; Sp. p. 2452; Gaz. vol. 179; p. 417.
Lance, Ora L., Corvallis, Oreg. Automatic railway-switch. No. 1,033,763; July 23; Gaz. vol. 180; p. 1114.
Lancey, Roswell A., Townsend, Mass., assignor, by mesne assignments, to J. Spaulding & Sons Company, Rochester, N. H. Leather-board machine. No. 1,016,945; Feb. 13; Sp. p. 1585; Gaz. vol. 175; p. 280.
Lancsar, Stephen. (See Leopold, Joseph, assignor.)
Land, Charles H., Jr., *et al.* (See Adsit, Charles G., assignor.)
Land, Gordon, Seattle, Wash., assignor to L. H. Smith. Means for regulating the intake of water in siphonic flush-tanks. No. 1,031,127; July 2; Gaz. vol. 180; p. 99.
Landa, Karl, Vienna, Austria-Hungary. Balancing device for vehicle-windows. No. 1,032,149; July 9; Gaz. vol. 180; p. 489.
Landau Brothers. (See Greenwald, Isadore, assignor.)
Landau, Dewis, San Francisco, Cal. Siphon-filler. No. 1,034,628; Aug. 6; Gaz. vol. 181; p. 74.
Landau, Frederick, Troy, N. Y. Detachable handle for bottles. No. 1,016,421; Feb. 6; Sp. p. 410; Gaz. vol. 175; p. 65.
Landergren, Frank L., New York, N. Y. Coffee-urn. No. 1,037,269; Sept. 3; Gaz. vol. 182; p. 31.
Landers, Emmet I., Troutville, Va. Scalding apparatus. No. 1,039,300; Sept. 24; Gaz. vol. 182; p. 807.
Landers, Frary & Clark. (See Moberg, Oscar, assignor.)
Landers, Frary & Clark. (See Walker, George, assignor.)
Landers, Frary & Clark. (See Warner, Alonzo A., assignor.)
Landers, Robert C., Lebanon, Kans. Fan attachment for sewing-machines. No. 1,027,259; May 21; Sp. p. 4802; Gaz. vol. 178; p. 810.
Landes and Gyr. (See Gyr, Karl H., assignor.)
Landes, William, Canton, Kans. Drier. No. 1,016,568; Feb. 6; Sp. p. 781; Gaz. vol. 175; p. 116.
Landgrebe, Karl. (See Johnson, Mark W., Jr., assignor.)
Landine, Peter N., assignor to The Rostand Manufacturing Company, Milford, Conn. Pull-strap. No. 1,014,310; Jan. 9; Sp. p. 2703; Gaz. vol. 174; p. 451.
Landine, Peter N., assignor to The Rostand Manufacturing Company, Milford, Conn. Hinge-joint for wind-shields. No. 1,026,813; May 21; Sp. p. 3785; Gaz. vol. 178; p. 655.
Landis, Abraham B., Waynesboro, Pa. Change-speed gearing. No. 1,015,031; Jan. 16; Sp. p. 4326; Gaz. vol. 174; p. 727.
Landis, Abraham B., Waynesboro, Pa. Grinding-machine. No. 1,015,567; Jan. 23; Sp. p. 5463; Gaz. vol. 174; p. 936.
Landis, Abraham B., Waynesboro, Pa. Grinding-machine. No. 1,016,751; Feb. 6; Sp. p. 1153; Gaz. vol. 175; p. 179.
Landis, Abraham B., Waynesboro, Pa. Change-speed gearing. No. 1,017,877; Feb. 20; Sp. p. 3652; Gaz. vol. 175; p. 637.
Landis, Abraham B., Waynesboro, Pa. Bolt-threading machine. No. 1,017,878; Feb. 20; Sp. p. 3656; Gaz. vol. 175; p. 637.
Landis, Abraham B., Waynesboro, Pa. Grinding-machine. No. 1,017,879; Feb. 20; Sp. p. 3659; Gaz. vol. 175; p. 638.
Landis, Abraham B., Waynesboro, Pa. Grinding-machine. No. 1,017,880; Feb. 20; Sp. p. 3662; Gaz. vol. 175; p. 638.
Landis, Abraham B., Waynesboro, Pa. Grinding-machine. No. 1,017,881; Feb. 20; Sp. p. 3665; Gaz. vol. 175; p. 638.
Landis, Abraham B., Waynesboro, Pa. Cutter-head. No. 1,017,882; Feb. 20; Sp. p. 3668; Gaz. vol. 175; p. 639.
Landis, Abraham B., Waynesboro, Pa. Cutter-head. No. 1,017,883; Feb. 20; Sp. p. 3671; Gaz. vol. 175; p. 639.
Landis, Abraham B., Waynesboro, Pa. Cutter-head. No. 1,017,884; Feb. 20; Sp. p. 3675; Gaz. vol. 175; p. 640.
Landis, Abraham B., Waynesboro, Pa. Cutter-head. No. 1,017,885; Feb. 20; Sp. p. 3677; Gaz. vol. 175; p. 640.
Landis, Abraham B., Waynesboro, Pa. Cutter-head. No. 1,017,886; Feb. 20; Sp. p. 3679; Gaz. vol. 175; p. 641.
Landis, Abraham B., Waynesboro, Pa. Cutter-head. No. 1,017,887; Feb. 20; Sp. p. 3681; Gaz. vol. 175; p. 641.
Landis, Abraham B., Waynesboro, Pa. Cutter-head. No. 1,017,888; Feb. 20; Sp. p. 3683; Gaz. vol. 175; p. 642.
Landis, Abraham B., Waynesboro, Pa. Thread-cutting machine. No. 1,017,889; Feb. 20; Sp. p. 3689; Gaz. vol. 175; p. 642.
Landis, Abraham B., Waynesboro, Pa. Cutter-head. No. 1,017,890; Feb. 20; Sp. p. 3692; Gaz. vol. 175; p. 643.
Landis, Abraham B., Waynesboro, Pa. Cutter-head. No. 1,017,891; Feb. 20; Sp. p. 3696; Gaz. vol. 175; p. 643.
Landis, Abraham B., Waynesboro, Pa. Cutter-head. No. 1,017,892; Feb. 20; Sp. p. 3700; Gaz. vol. 175; p. 644.
Landis, Abraham B., Waynesboro, Pa. Change-speed gearing. No. 1,017,893; Feb. 20; Sp. p. 3703; Gaz. vol. 175; p. 644.
Landis, Abraham B., Waynesboro, Pa. Grinding-machine. No. 1,018,392; Feb. 20; Sp. p. 4767; Gaz. vol. 175; p. 816.
Landis, Abraham B., Waynesboro, Pa. Cutter-head. No. 1,018,393; Feb. 20; Sp. p. 4770; Gaz. vol. 175; p. 816.
Landis, Abraham B., Waynesboro, Pa. Cutter-head. No. 1,018,394; Feb. 20; Sp. p. 4774; Gaz. vol. 175; p. 817.
Landis, Abraham B., Waynesboro, Pa. Grinding-machine. No. 1,018,395; Feb. 20; Sp. p. 4776; Gaz. vol. 175; p. 817.
Landis, Abraham B., Enfield, Pa. Variable-speed gearing. No. 1,015,808; Jan. 30; Sp. p. 5978; Gaz. vol. 174; p. 1046.
Landis, Frank F., Waynesboro, Pa. Machine for molding concrete. No. 1,017,876; Feb. 20; Sp. p. 3645; Gaz. vol. 175; p. 636.
Landis Machine Company. (See Blair, William R., assignor.) (Reissue.)
Landon, Charles A., Columbus, Ohio. Road grader and roller. No. 1,017,894; Feb. 20; Sp. p. 3707; Gaz. vol. 175; p. 645.
Landon, Joseph M., Upper Norwood, London, England. Trumpet. No. 1,029,502; June 11; Sp. p. 3107; Gaz. vol. 179; p. 521.
Landon, Ransom G., *et al.* (See Graham, Andrew W., assignor.)
Landon, William G., New Haven, Conn. Valve-gear for locomotives. No. 1,047,420; Dec. 17; Gaz. vol. 185; p. 633.
Landro, Ole, Thief River Falls, Minn. Ax. No. 1,034,256; July 30; Gaz. vol. 180; p. 1315.
Landry, Joseph L., Napoleonville, La. Burner. No. 1,047,250; Dec. 17; Gaz. vol. 185; p. 573.
Landry, Peter J. (See Barton and Landry.)

Alphabetical list of patentees—Continued.

Landsiedel, John, Peoria, Ill. Lighting system. No. 1,025,196; May 7; Sp. p. 188; Gaz. vol. 178; p. 32.
Landstra, Dirk S., South Orange, N. J. Turn-table. No. 1,047,661; Dec. 17; Gaz. vol. 185; p. 720.
Landwehr, August H., Holland, Mich. Can-cover. No. 1,029,617; June 18; Sp. p. 3360; Gaz. vol. 179; p. 597.
Lane, Alfred M., St. Louis, Mo. Metal weather-strip. No. 1,020,993; Mar. 26; Sp. p. 4231; Gaz. vol. 176; p. 786.
Lane, Alfred M., assignor to Monarch Metal Weather Strip Company, St. Louis, Mo. Weather-strip. No. 1,020,992; Mar. 26; Sp. p. 4229; Gaz. vol. 176; p. 785.
Lane, Cornelius J., assignor to The Cyclone Woven Wire Fence Company, Cleveland, Ohio. Farm-gate. No. 1,035,978; Aug. 20; Gaz. vol. 181; p. 600.
Lane, Edward J., Rapid City, S. D. Ironing-table. No. 1,047,818; Dec. 17; Gaz. vol. 185; p. 774.
Lane, Enoch J., San Jose, assignor of sixty one-hundredths to Pratt-Low Preserving Co., Santa Clara, Cal. Liquid-filling machine. No. 1,046,811; Dec. 10; Gaz. vol. 185; p. 393.
Lane, Franklin L., assignor to The Berlin Machine Works, Beloit, Wis. Abrading-cylinder. No. 1,030,897; July 2; Gaz. vol. 180; p. 16.
Lane, Franklin L., assignor to The Berlin Machine Works, Beloit, Wis. Matching planer-head. No. 1,036,862; Aug. 27; Gaz. vol. 181; p. 938.
Lane, Frederic A., assignor to D. H. Burrell & Company, Little Falls, N. Y. Teat-cup for milking-machines. No. 1,015,032; Jan. 16; Sp. p. 4330; Gaz. vol. 174; p. 728.
Lane, George E., Santiago de Cuba, Cuba. Marine signal. No. 1,018,506; Feb. 27; Sp. p. 5040; Gaz. vol. 175; p. 887.
Lane, H. L., *et al.* (See Ellsworth, Dighton B., assignor.)
Lane, Hiram A., and J. E. George, Oakwood, Ill. Railway-crossing. No. 1,020,611; Mar. 19; Sp. p. 3419; Gaz. vol. 176; p. 605.
Lane, Howard, Birmingham, England, assignor to Internationale Wasserstoff Aktiengesellschaft, Frankfort-on-the-Main, Germany. Gas-purifying plant. No. 1,025,918; May 7; Sp. p. 1812; Gaz. vol. 178; p. 279.
Lane, Howard, Birmingham, England, assignor to Internationale Wasserstoff Aktiengesellschaft, Frankfort-on-the-Main, Germany. Apparatus for producing hydrogen gas. No. 1,028,366; June 4; Sp. p. 667; Gaz. vol. 179; p. 100.
Lane, Howard, Birmingham, England, assignor to Internationale Wasserstoff Aktiengesellschaft, Frankfort-on-the-Main, Germany. Purifying crude gas. No. 1,040,218; Oct. 1; Gaz. vol. 183; p. 183.
Lane, Phil E., Urbana, Iowa. End-gate fastener. No. 1,041,819; Oct. 22; Gaz. vol. 183; p. 827.
Lane, Walter, Chicago, Ill. Multiple drill. No. 1,020,359; Mar. 12; Sp. p. 2851; Gaz. vol. 176; p. 483.
Lane, Willias A. (See Grearson, Frederick A., assignor.)
Laney, John H., Minneapolis, assignor of one-eighth to R. L. Laney, Holloway, Minn. Railway-switch. No. 1,017,768; Feb. 20; Sp. p. 3346; Gaz. vol. 175; p. 599.
Laney, Ronald L. (See Laney, John H., assignor.)
Lanford, David L., Brownwood, Tex. Display device. No. 1,019,807; Mar. 12; Sp. p. 1723; Gaz. vol. 176; p. 301.
Lanfredi, Eugenia, New York, N. Y. Oil-burner. No. 1,042,930; Oct. 29; Gaz. vol. 183; p. 1234.
Lang, Albert, Karlsruhe, Germany. Production of reactionary substances for the generation of heat. No. 1,035,202; Aug. 13; Gaz. vol. 181; p. 298.
Lang, Charles R., Cathcart, Glasgow, Scotland. Control of steam-turbine-driven boiler-feed pumps. No. 1,041,492; Oct. 15; Gaz. vol. 183; p. 680.
Lang, Charles R., Los Angeles, Cal. Order-taking and receipt-delivering device. No. 1,042,010; Oct. 22; Gaz. vol. 183; p. 891.
Lang, Edward, Saginaw, Mich. Beet-topper. No. 1,019,056; Mar. 5; Sp. p. 92; Gaz. vol. 176; p. 18.
Lang, Frank J., Des Moines, Iowa. Draftsman's table. No. 1,044,196; Nov. 12; Gaz. vol. 184; p. 433.
Lang, Georg A., Maurice, Iowa. Seed-corn hanger. No. 1,035,019; Aug. 6; Gaz. vol. 181; p. 206.
Lang, George H., Boston, Mass. Printing-machine. No. 1,017,979; Feb. 20; Sp. p. 3894; Gaz. vol. 175; p. 674.
Lang, George H., Boston, Mass. Carton-maker. No. 1,019,971; Mar. 12; Sp. p. 2056; Gaz. vol. 176; p. 355.
Lang, George H., Boston, Mass. Tag-marking machine. No. 1,023,570; Apr. 16; Sp. p. 3864; Gaz. vol. 177; p. 680.
Lang, George J. (See Black, John L., assignor.)
Lang, Howard W., Litchfield, Nebr. Nut-lock. No. 1,042,569; Oct. 29; Gaz. vol. 183; p. 1108.
Lang, Johan G. V., Southall, assignor of one-half to E. H. Johnson, London, England. Control of electric motors. No. 1,025,876; May 7; Sp. p. 1691; Gaz. vol. 178; p. 264.
Lang, Johan G. V., Davenport, Iowa, assignor of one-half to E. H. Johnson, New York, N. Y. Regulating electric motors. No. 1,025,877; May 7; Sp. p. 1694; Gaz. vol. 178; p. 265.
Lang, John E., Washington, Pa. Sealing device for wrappers. No. 1,029,377; June 11; Sp. p. 2846; Gaz. vol. 179; p. 478.
Lang, John W., assignor of one-half to R. Calderwood, Portersville, Cal. Pipe attachment. No. 1,025,578; May 7; Sp. p. 1067; Gaz. vol. 178; p. 164.
Lang, Niels, Vancouver, British Columbia, Canada. Insulating-rosette for electric-light fixtures. No. 1,021,687; Mar. 26; Sp. p. 5669; Gaz. vol. 176; p. 1020.
Lang, Robert, and W. E. James, St. Louis, Mo. Fire-escape. No. 1,037,026; Aug. 27; Gaz. vol. 181; p. 992.
Langdale, Rupert H., Cincinnati, Ohio. Filing-case. No. 1,030,898; July 2; Gaz. vol. 180; p. 17.
Langdon, Warren W., assignor to Baker & Baker, Walla Walla, Wash. Coal briquet and forming the same. No. 1,015,033; Jan. 16; Sp. p. 4332; Gaz. vol. 174; p. 728.
Lange, Frank, Portland, Oreg. Swaging-machine. No. 1,045,989; Dec. 3; Gaz. vol. 185; p. 66.
Lange, Frederick M. T. (See Chitty, Lange, and Mascord.)
Lange, Gustav J., Eau Claire, Wis. Pea-separating machine. No. 1,018,715; Feb. 27; Sp. p. 5528; Gaz. vol. 175; p. 957.
Lange, Heinrich, Kiel, and F. Druckenmüller, assignors to Franz Clouth Rheinische Gummiwaarenfabrik mit beschränkter Haftung, Cologne-Nippes, Germany. Insulator. No. 1,031,453; July 2; Gaz. vol. 180; p. 210.
Lange, Henry, Quincy, Ill. Stove. No. 1,044,061; Nov. 12; Gaz. vol. 184; p. 387.
Lange, Herman. (See Heitman, Charles E., assignor.)
Lange, Herman H., Mason City, Ill. Railway-spike. No. 1,038,905; Sept. 17; Gaz. vol. 182; p. 655.
Lange, Lucy M., assignor of one-half to M. E. Clarke, Oakland, Cal. Chocolate-dipping machine. No. 1,022,792; Apr. 9; Sp. p. 2228; Gaz. vol. 177; p. 382.
Lange, Paul, Brieg, near Breslau, Germany. Rock-drilling machine. No. 1,044,790; Nov. 19; Gaz. vol. 184; p. 671.
Lange, Thor H., Bridgeport, Conn., assignor to Whiting Manufacturing Company, New York, N. Y. Lamp. No. 1,036,523; Aug. 20; Gaz. vol. 181; p. 792.
Langell, Dale F., Apple Creek, Ohio. Coupling. No. 1,022,485; Apr. 9; Sp. p. 1542; Gaz. vol. 177; p. 277.
Langen, George, and C. Meier, assignors to The Cincinnati Planer Company, Cincinnati, Ohio. Metal-working planer. No. 1,029,875; June 18; Sp. p. 3951; Gaz. vol. 179; p. 688.
Langendorfer, John W., Philadelphia, Pa. Gas-fixture. No. 1,026,447; May 14; Sp. p. 3006; Gaz. vol. 178; p. 495.
Langenegger, Albert U. (See Norton and Langenegger.)
Langenohl, Edward, Wermelskirchen, Germany. Apparatus for shaping boot and shoe uppers. No. 1,036,649; Aug. 27; Gaz. vol. 181; p. 867.
Langer, Gotthold L., San Francisco, Cal. Machine for separating raisins. No. 1,042,570; Oct. 29; Gaz. vol. 183; p. 1108.
Langer, Gotthold L., San Francisco, assignor to Anderson, Barngrover Manufacturing Company, San Jose, Cal. Seeding-roll. No. 1,023,856; Apr. 23; Sp. p. 4462; Gaz. vol. 177; p. 799.
Langer, William, New York, N. Y. Double-acting steam-valve. No. 1,036,274; Aug. 20; Gaz. vol. 181; p. 706.
Langevin, Desire, Rumford, Me. Clutch-collar. No. 1,024,344; Apr. 23; Sp. p. 5515; Gaz. vol. 177; p. 966.
Langford, James M., Mulberry, Fla. Pipe-coupling. No. 1,038,396; Sept. 10; Gaz. vol. 182; p. 442.
Langford, Samuel F., Sacramento, Cal. Folding anchor. No. 1,036,275; Aug. 20; Gaz. vol. 181; p. 706.
Langille, John C., Newport, Wash. Aeroboat. No. 1,015,568; Jan. 23; Sp. p. 5474; Gaz. vol. 174; p. 937.
Langkans, Gustave, Utica, N. Y. Sash-fastener. No. 1,015,624; Jan. 23; Sp. p. 5586; Gaz. vol. 174; p. 957.
Langlais, Zachée, Montreal, Quebec, Canada. Fountain-brush. No. 1,039,965; Oct. 1; Gaz. vol. 183; p. 98.
Langlet, Nils A., Gottenborg, and E. L. Rinman, Uppsala, Sweden. Producing pulverulent and easily-washable hydrates of aluminium. No. 1,015,499; Jan. 23; Sp. p. 5325; Gaz. vol. 174; p. 913.
Langley, Frederick, and G. B. Laundrie, Rouses Point, N. Y. Game. No. 1,033,422; July 23; Gaz. vol. 180; p. 1004.
Langley, Ralph R., Lincoln, Nebr. Planter. No. 1,024,208; Apr. 23; Sp. p. 5259; Gaz. vol. 177; p. 922.
Langley, Ralph R., Lincoln, Nebr. Lister-planter. No. 1,024,345; Apr. 23; Sp. p. 5516; Gaz. vol. 177; p. 966.
Langlois, Jean, assignor of one-fourth to M. E. Neff and one-fourth to M. Madeleine, Moline, Ill. Gang-plow. No. 1,046,395; Dec. 3; Gaz. vol. 185; p. 209.
Langsdon, Al V. (See Zuegner and Langsdon.)
Langston, Johnson D., Birmingham, Ala. Burner. No. 1,045,044; Nov. 19; Gaz. vol. 184; p. 757.
Langton, Edward A., assignor of one-half to C. T. Hayner, New York, N. Y. Non-refillable bottle. No. 1,047,662; Dec. 17; Gaz. vol. 185; p. 720.
Langton, George H., and J. M. Kellerman, assignors to Auto Air Cushion Wheel Company, Los Angeles, Cal. Spring-wheel. No. 1,017,895; Feb. 20; Sp. p. 3711; Gaz. vol. 175; p. 646.
Langum, John N., Barton, N. D. Horse-collar and hames. No. 1,020,042; Mar. 12; Sp. p. 2205; Gaz. vol. 176; p. 380.
Lanham, Ira C., assignor to C. J. O'Neill, Washington, D. C. Tree-guard. No. 1,031,941; July 9; Gaz. vol. 180; p. 421.
Lanier, Edward H., and F. K. Driesbach, Cincinnati, Ohio. Pastry-making machine. (Reissue.) No. 13,455; Aug. 6; Gaz. vol. 181; p. 243.

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Lanier, George A., Petersburg, assignor of one-half to W. Braverman, Richmond, Va. Article-holder. No. 1,020,916; Mar. 19; Sp. p. 4049; Gaz. vol. 176; p. 707.
Lanier, James S., West Point, Ga., assignor, by mesne assignments, to International Mail Equipment Co. Mail receiving and delivering apparatus. No. 1,037,497; Sept. 3; Gaz. vol. 182; p. 109.
Lanier, James S., West Point, Ga., assignor, by mesne assignments, to International Mail Equipment Co. Mail receiving and delivering apparatus. No. 1,037,498; Sept. 3; Gaz. vol. 182; p. 110.
Lanier, Lewis H., Newport, Ky., assignor of one-half to L. L. Stricker, Cincinnati, Ohio. Ice-cream-cone machine. No. 1,028,035; May 28; Sp. p. 6457; Gaz. vol. 178; p. 1106.
Laning, Carl E., assignor of one-half to E. Thurber, Gloversville, N. Y. Non-refillable bottle. No. 1,039,146; Sept. 24; Gaz. vol. 182; p. 750.
Laning, Wesley, Gloversville, N. Y. Horseshoe-calk sharpener. No. 1,035,712; Aug. 13; Gaz. vol. 181; p. 473.
Lankford, John L., Essex, Mo. Cattle-guard. No. 1,041,493; Oct. 15; Gaz. vol. 183; p. 680.
Lann, Turner J., Saline, La. Mowing-machine. No. 1,013,787; Jan. 2; Sp. p. 1527; Gaz. vol. 174; p. 243.
Lanning, Charles D., Boston, Mass. Coherer. No. 1,019,260; Mar. 5; Sp. p. 554; Gaz. vol. 176; p. 88.
Lanning, Howard H., assignor of one-half to H. W. Jacobs, Topeka, Kans. Welding-burner. No. 1,038,765; Sept. 17; Gaz. vol. 182; p. 606.
Lanning, James K. (See Cunniff, John V., assignor.)
Lanning, James K. (See Sawtell, Albert H., assignor.)
Lannmark, Johannes K., Stockholm, assignor to H. K. A. Kohl, Stocksund, near Stockholm, Sweden. Machine for bottling liquids under pressure. No. 1,045,567; Nov. 26; Gaz. vol. 184; p. 969.
Lannoye, Joseph G., Detroit, Mich. Scarifying device for fruits and vegetables. No. 1,016,338; Feb. 6; Sp. p. 233; Gaz. vol. 175; p. 36.
Lanphier, Robert C., assignor to Sangamo Electric Company, Springfield, Ill. Three-wire mercury-meter. No. 1,021,106; Mar. 26; Sp. p. 4447; Gaz. vol. 176; p. 823.
Lanphier, Robert C., assignor to Sangamo Electric Company, Springfield, Ill. Inductor-magneto. No. 1,027,550; May 28; Sp. p. 5396; Gaz. vol. 178; p. 945.
Lansing Wheelbarrow Company. (See Stebbins, Arthur C., assignor.)
Lanston Monotype Machine Company. (See Bancroft and Indahl, assignors.)
Lanston Monotype Machine Company. (See Elliott, Richard C., assignor.)
Lanston Monotype Machine Company. (See Knight and Clements, assignors.)
Lanston Monotype Machine Company. (See Leffingwell, Burton, assignor.)
Lanston Monotype Machine Company. (See Pierpont, Frank H., assignor.)
Lantry, Joseph J. (See Cremer and Lantry.)
Lantz, Edgar W. (See Borg and Lantz.)
Lanz, Charles, Pittsburgh, Pa. Ground-rod. No. 1,035,020; Aug. 6; Gaz. vol. 181; p. 206.
Lapicki, John, De Kalb, Ill. Telephone. No. 1,015,034; Jan. 16; Sp. p. 4338; Gaz. vol. 174; p. 729.
Lapin, John, New York, N. Y. Trench-digging machine. No. 1,023,571; Apr. 16; Sp. p. 3868; Gaz. vol. 177; p. 680.
Lapin, John, New York, N. Y. Trench-digging shovel. No. 1,027,345; May 21; Sp. p. 4975; Gaz. vol. 178; p. 838.
Lapin, Samuel, Philadelphia, Pa. Stage-noise cabinet. No. 1,047,090; Dec. 10; Gaz. vol. 185; p. 485.
Laplace, Jean B., Spokane, Wash. Dish-washing machine. No. 1,031,186; July 2; Gaz. vol. 180; p. 120.
Lapointe Machine Tool Co. (See Lapointe, Ralph R., assignor.)
Lapointe Machine Tool Co. (See Lapointe and Levy, assignors.)
Lapointe, Ralph R., assignor, by mesne assignments, to Lapointe Machine Tool Co., Hudson, Mass. Broaching mechanism. No. 1,028,824; June 4; Sp. p. 1621; Gaz. vol. 179; p. 253.
Lapointe, Ralph R., assignor, by mesne assignments, to Lapointe Machine Tool Co., Hudson, Mass. Broaching-machine. No. 1,028,825; June 4; Sp. p. 1623; Gaz. vol. 179; p. 253.
Lapointe, Ralph R., Hudson, and B. F. Levy, Boston, assignors to Lapointe Machine Tool Co., Hudson, Mass. Lubricating system. No. 1,047,819; Dec. 17; Gaz. vol. 185; p. 775.
Lappen, James E., Le Roy, assignor to Le Roy Fibre Company, St. Paul, Minn. Flax-felt machine. No. 1,023,473; Apr. 16; Sp. p. 3660; Gaz. vol. 177; p. 649.
Laprise, Henry, Holyoke, Mass. Aeroplane. No. 1,030,312; June 25; Sp. p. 4912; Gaz. vol. 179; p. 877.
Laprise, Henry, Holyoke, Mass. Life-preserver. No. 1,045,858; Dec. 3; Gaz. vol. 185; p. 22.
Larava, Henry F., assignor to Quinsigamond Pressed Steel and Tool Company, Worcester, Mass. Sheet-metal thumb-nut. No. 1,044,791; Nov. 19; Gaz. vol. 184; p. 671.
Laraway, William H., Grand Rapids, Mich. Vending-machine. No. 1,018,507; Feb. 27; Sp. p. 5046; Gaz. vol. 175; p. 887.
Lard, Allan E., Washington, D. C. Grip or handle. No. 1,017,565; Feb. 13; Sp. p. 2923; Gaz. vol. 175; p. 494.
Lare, Benjamin F., Philadelphia, Pa. Tire for vehicle-wheels. No. 1,015,035; Jan. 16; Sp. p. 4339; Gaz. vol. 174; p. 729.
Lare, Benjamin F., Philadelphia, Pa. Vehicle-tire. No. 1,015,036; Jan. 16; Sp. p. 4340; Gaz. vol. 174; p. 729.
Lare, Benjamin F., Philadelphia, Pa. Vehicle-tire. No. 1,015,037; Jan. 16; Sp. p. 4342; Gaz. vol. 174; p. 729.
Lare, Benjamin F., Philadelphia, Pa. Tire. No. 1,015,038; Jan. 16; Sp. p. 4344; Gaz. vol. 174; p. 730.
Large, I. S. (See Walhof, Charles A., assignor.)
Larick, Harry C. (See Stough and Larick.)
Larimer, John L., *et al.* (See Sande, Gus, assignor.)
Larkin, Bernard H. (See Norton and Larkin.)
Larkin, Clifford J., *et al.* (See Nelson, Albert H., assignor.)
Larkin, Edward C., and J. F. Duncan, Dayton, Ohio. Compound and method of increasing combustion of coal, &c. No. 1,017,677; Feb. 20; Sp. p. 3149; Gaz. vol. 175; p. 568.
Larkin, Fred A. (See Rice and Larkin.)
Larkin, George A., administrator. (See Magner, Thomas J.)
Larkin Manufacturing Company. (See Buckley, John P., assignor.)
Larkin, William, Tacoma, Wash. Rodent-poison holder. No. 1,048,977; Dec. 31; Gaz. vol. 185; p. 1235.
Larkin, William J., Chicago, Ill. Window. No. 1,048,550; Dec. 31; Gaz. vol. 185; p. 1087.
Larkins, Herman H., Princeton, Ky. Muffler. No. 1,021,254; Mar. 26; Sp. p. 4780; Gaz. vol. 176; p. 872.
Larkins, Thomas F., Sandusky, Ohio. Music-leaf turner. No. 1,027,346; May 21; Sp. p. 4976; Gaz. vol. 178; p. 838.
Larmon, Charles B. (See Summers and Larmon.)
Larmuth, William O. (See Davidson and Larmuth.)
Larose, Albert, St. Esprit, Quebec, Canada. Tobacco-planter. No. 1,014,655; Jan. 16; Sp. p. 3490; Gaz. vol. 174; p. 598.
Larrabee, Ralph B., Anson, Me. Computing-scale. No. 1,022,030; Apr. 2; Sp. p. 593; Gaz. vol. 177; p. 94.
Larrad, John L., Bexhill, England. Lock-nut. No. 1,025,702; May 7; Sp. p. 1316; Gaz. vol. 178; p. 205.
Larrance, Laurena E., Delia, Kans. Cooling device. No. 1,027,660; May 28; Sp. p. 5623; Gaz. vol. 178; p. 982.
Larrick, James H. (See Rankin and Larrick.)
Larsen, Adolph M., Chicago, Ill. Towel-holder. No. 1,036,650; Aug. 27; Gaz. vol. 181; p. 868.
Larsen, August L., Cleveland, Ohio. Concrete reinforcement. No. 1,043,442; Nov. 5; Gaz. vol. 184; p. 141.
Larsen, Carl M. L., Chicago, Ill. Level. No. 1,014,402; Jan. 9; Sp. p. 2927; Gaz. vol. 174; p. 485.
Larsen, Charles A., Colgate, N. D. Grain-door. No. 1,020,831; Mar. 19; Sp. p. 3891; Gaz. vol. 176; p. 680.
Larsen, Ivert. (See McKaig and Larsen.)
Larsen, Ivert, Chicago, Ill. Lubricating device. No. 1,026,322; May 14; Sp. p. 2716; Gaz. vol. 178; p. 454.
Larsen, Ivert, Chicago, Ill. Lubricating device. No. 1,028,745; June 4; Sp. p. 1466; Gaz. vol. 179; p. 227.
Larsen, Ivert, Chicago, Ill. Lubricator. No. 1,030,667; June 25; Sp. p. 5877; Gaz. vol. 179; p. 1005.
Larsen, Ivert, Chicago, Ill. Counting-machine. No. 1,039,761; Oct. 1; Gaz. vol. 183; p. 31.
Larsen, Jens A., Copenhagen, Denmark. Apparatus for measuring and bottling liquids. No. 1,031,187; July 2; Gaz. vol. 180; p. 120.
Larsen, John C., Medford, Wis. Metal fence-post. No. 1,030,411; June 25; Sp. p. 5119; Gaz. vol. 179; p. 913.
Larsen, Louis. (See Smith and Larsen.)
Larsen, Ludwig B., Portland, Oreg. Butter-cutter. No. 1,045,988; Dec. 3; Gaz. vol. 185; p. 65.
Larsen, Ludwig I., Chicago, Ill. Grain-door for cars. No. 1,039,966; Oct. 1; Gaz. vol. 183; p. 98.
Larsen, Peter A., Mount Pleasant, Utah. Slide-equalizer doubletree. No. 1,028,746; June 4; Sp. p. 1470; Gaz. vol. 179; p. 227.
Larsen, Walter, and L. T. Larson, Westbrook, Minn. Latch. No. 1,047,091; Dec. 10; Gaz. vol. 185; p. 485.
Larson, Adolph, and J. Jacobsen, Rockford, Ill. Machine for inserting tape-bushings in piano-actions. No. 1,041,820; Oct. 22; Gaz. vol. 183; p. 827.
Larson, Andrew, Duluth, Minn. Log-Loader. No. 1,016,076; Jan. 30; Sp. p. 6570; Gaz. vol. 174; p. 1140.
Larson, August, Chicago, Ill. Guitar. No. 1,022,031; Apr. 2; Sp. p. 596; Gaz. vol. 177; p. 94.
Larson, Bengt, Chicago, Ill. Convertible cot or cradle. No. 1,017,769; Feb. 20; Sp. p. 3346; Gaz. vol. 175; p. 599.
Larson, Bennett, assignor of one-third to W. J. Dolan, Rhinelander, Wis. Winder-shaft. No. 1,033,423; July 23; Gaz. vol. 180; p. 1005.
Larson, Bent G., Jamestown, N. D. Ladder attachment. No. 1,047,251; Dec. 17; Gaz. vol. 185; p. 573.
Larson, Charles G. and P. A., Burlington, Iowa. Try-square. No. 1,037,155; Aug. 27; Gaz. vol. 181; p. 1035.
Larson, David. (See Lindquist and Larson.)

Alphabetical list of patentees—Continued.

Larson, David, Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Mechanical reversing and accelerating switch. No. 1,014,234; Jan. 9; Sp. p. 2546; Gaz. vol. 174; p. 425.
Larson, David, Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Electric-switch-contact holder. No. 1,016,833; Feb. 6; Sp. p. 1328; Gaz. vol. 175; p. 205.
Larson, David, Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Controlling mechanism. No. 1,016,834; Feb. 6; Sp. p. 1329; Gaz. vol. 175; p. 205.
Larson, Ernest J., Marshfield, Oreg. Safety logging-hook. No. 1,045,568; Nov. 26; Gaz. vol. 184; p. 970.
Larson, George M., Honeyford, N. D. Swimming-shoe. No. 1,043,776; Nov. 5; Gaz. vol. 184; p. 256.
Larson, Hans. (See Sabin and Larson.)
Larson, Ida, Brooklyn, N. Y. Cooking utensil. No. 1,016,339; Feb. 6; Sp. p. 235; Gaz. vol. 175; p. 36.
Larson, James C., Auburn, N Y., assignor to International Harvester Company. Shop-truck. No. 1,015,966; Jan. 30; Sp. p. 6320; Gaz. vol. 174; p. 1100.
Larson, John B., assignor of one-fourth to E. T. Engstrom, one-fourth to W. M. Higley, Minneapolis, and one-fourth to Jno. B. Lee Company. Tray for gas-purifying tanks. No. 1,033,809; July 30; Gaz. vol. 180; p. 1157.
Larson, John M., assignor to National Regulator Company, Chicago, Ill. Temperature-regulating apparatus. No. 1,019,496; Mar. 5; Sp. p. 1135; Gaz. vol. 176; p. 167.
Larson, John M., Chicago, Ill., assignor to National Regulator Company. Valve-operating mechanism for motors. No. 1,044,197; Nov. 12; Gaz. vol. 184; p. 433.
Larson, Leonard, Stanton, Iowa. Pig-extractor. No. 1,024,513; Apr. 30; Sp. p. 5941; Gaz. vol. 177; p. 1060.
Larson, Lewis T. (See Larsen and Larson.)
Larson, Ludwick, Brady Island, Nebr. Door. No. 1,019,664; Mar. 5; Sp. p. 1440; Gaz. vol. 176; p. 222.
Larson, Nels L., Villisca, Iowa. Chute attachment for corn-shellers. No. 1,021,201; Mar. 26; Sp. p. 4655; Gaz. vol. 176; p. 854.
Larson, Paul W., Swea City, Iowa. Concave. No. 1,034,469; Aug. 6; Gaz. vol. 181; p. 22.
Larson, Peter A. (See Larson, Charles G. and P. A.)
Larson, William. (See Staff and Larson.)
Larson, William, assignor of one-half to W. W. Markle, Bonner, Mont. Lumber-piling machine. No. 1,045,045; Nov. 19; Gaz. vol. 184; p. 758.
Larson, Wilmer F., Grand Rapids, Wis. Scarf-pin. No. 1,046,812; Dec. 10; Gaz. vol. 185; p. 394.
Larssen, Tryggve, Bremen, assignor to The Firm of Deutsch-Luxemburgische Bergwerks- und Hutten-Aktiengesellschaft, Bochum, Germany. Sheet-metal piling. No. 1,042,571; Oct. 29; Gaz. vol. 183; p. 1108.
Larsson, Magnus, Helsingborg, Sweden. Feeder for straw and tobacco cutters. No. 1,029,759; June 18; Sp. p. 3671; Gaz. vol. 179; p. 647.
Larsson, Thure, Worcester, Mass., assignor to himself, W. E. D. Stokes, New York, N. Y. and F. A. Jones, Worcester, Mass. Automatic stopping mechanism for elevators. No. 1,033,181; July 23; Gaz. vol. 180; p. 923.
Lary, John F. (See Lary, Stanley C. and J. F.)
Lary, Stanley C., Cohasset, and J. F. Lary, Worcester, Mass. Drawing instrument. No. 1,045,300; Nov. 26; Gaz. vol. 184; p. 874.
Lasance, August, Dayton, Ohio. Steam pressing-bed. No. 1,014,011; Jan. 9; Sp. p. 2057; Gaz. vol. 174; p. 347.
Lasares, George C., Springfield, Mass. Toy. No. 1,036,651; Aug. 27; Gaz. vol. 181; p. 868.
Lasbury, Vincent, Chicago, Ill. Dental tool. No. 1,015,039; Jan. 16; Sp. p. 4345; Gaz. vol. 174; p. 730.
Lasche, Oscar, Charlottenburg, Germany, assignor to General Electric Company. Diaphragm for turbines. No. 1,017,566; Feb. 13; Sp. p. 2925; Gaz. vol. 175; p. 494.
Lasere, Frederick, Cleveland, Ohio. Type-writing machine. No. 1,033,709; July 23; Gaz. vol. 180; p. 1097.
Laska, August L. (See Winther, Laska, and Zitscher.)
Laska, August L., Offenbach-on-the-Main, assignor to Chemische Fabrik Griesheim Elektron, Frankfort-on-the-Main, Germany. Vat dye and making same. No. 1,016,638; Feb. 6; Sp. p. 940; Gaz. vol. 175; p. 141.
Laska, August L., Offenbach-on-the-Main, assignor to Chemische Fabrik-Griesheim-Elektron, Frankfort-on-the-Main, Germany. Violet cotton-dyes. No. 1,049,109; Dec. 31; Gaz. vol. 185; p. 1282.
Laska, August L., A. Zitscher, and F. Kunert, Offenbach-on-the-Main, assignors to Chemische Fabrik Griesheim-Elektron, Frankfort-on-the-Main, Germany. Disazo dyes and making them. No. 1,042,356; Oct. 22; Gaz. vol. 183; p. 1005.
Laska, August L., A. Zitscher, and E. J. Rath, Offenbach-on-the-Main, assignors to Chemische Fabrik Griesheim-Elektron, Frankfort-on-the-Main, Germany. Vat dyestuff of the anthracene series and making same. No. 1,042,931; Oct. 29; Gaz. vol. 183; p. 1234.
Lasker, William W., Brooklyn, N. Y. Ribbon-spool. No. 1,013,882; Jan. 9; Sp. p. 1772; Gaz. vol. 174; p. 304.
Laskey, William B., Marblehead, Mass. Automatic fan. No. 1,021,536; Mar. 26; Sp. p. 5398; Gaz. vol. 176; p. 972.
Lassel, August R., Washington, D. C. Aeroplane. No. 1,016,020; Jan. 30; Sp. p. 6433; Gaz. vol. 174; p. 1120.
Lassen, Axel J. L., Copenhagen, Denmark. Machine for stoppering bottles. No. 1,043,709; Nov. 5; Gaz. vol. 184; p. 234.
Lassen, Axel J. L., Frederiksberg, near Copenhagen, Denmark. Making and applying bottle caps or capsules. No. 1,045,415; Nov. 26; Gaz. vol. 184; p. 914.
Lassiter, Columbus K., and F. E. Bocorselski, Richmond, Va. Multiple-spindle drill. No. 1,027,347; May 21; Sp. p. 4977; Gaz. vol. 178; p. 839.
Lassiter, Columbus K., and F. E. Bocorselski, Richmond, Va. Tool-holder. No. 1,038,158; Sept. 10; Gaz. vol. 182; p. 362.
Lassiter, Columbus K., and F. E. Bocorselski, Richmond, Va. Hydropneumatic drill. No. 1,046,311; Dec. 3; Gaz. vol. 185; p. 179.
Lasson, Louis, Philadelphia, Pa. Hat-pin guard. No. 1,047,539; Dec. 17; Gaz. vol. 185; p. 676.
László, Bodnár, Youngstown, Ohio. Square. No. 1,020,428; Mar. 19; Sp. p. 3013; Gaz. vol. 176; p. 546.
Latendorf, Victor H., Bayonne, N. J. Aeroplane. No. 1,034,257; July 30; Gaz. vol. 180; p. 1315.
Latham, Chester A., Wichita, Kans. Window-bracket. No. 1,047,092; Dec. 10; Gaz. vol. 185; p. 485.
Latham, Harry E., *et al.* (See Korndoerfer, Augustus, Jr., assignor.)
Latham, Harry H., and W. Osterholm, assignors to Latham Machinery Company, Chicago, Ill. Cutting mechanism for wire-stitching machines. No. 1,026,216; May 14; Sp. p. 2493; Gaz. vol. 178; p. 418.
Latham Machinery Company. (See Latham and Osterholm, assignors.)
Latham Machinery Company. (See Weber, Henry, assignor.)
Latham, Reginald W., San Benito, Tex. Oil-separator. No. 1,019,809; Mar. 12; Sp. p. 1725; Gaz. vol. 176; p. 302.
Lathey, Myron A., Ottawa, Ontario, assignor to J. H. Burland, Montreal, Canada. Printing-machine. No. 1,021,051; Mar. 26; Sp. p. 4347; Gaz. vol. 176; p. 807.
Lathrop, Frank A., Portland, Oreg. Telephone-call recorder. No. 1,034,807; Aug. 6; Gaz. vol. 181; p. 137.
Lathrop, Frank K., assignor to The Ohio Rake Company, Dayton, Ohio. Disk harrow. No. 1,036,652; Aug. 27; Gaz. vol. 181; p. 868.
Lathrop, Frank L. (See Edsall and Lathrop.)
Lathrop, Frank L., assignor to H. L. Judd Company, Wallingford, Conn. Curtain rod and bracket. No. 1,044,893; Nov. 19; Gaz. vol. 184; p. 705.
Lathrop, Frank L., and G. T. S. Spokes, assignors to H. L. Judd Company, Wallingford, Conn. Curtain-rod and attachment. No. 1,026,042; May 14; Sp. p. 2081; Gaz. vol. 178; p. 356.
Lathrop, George W., and J. W. Powles, Ramsey county, Minn. Safety appliance for elevators. No. 1,023,857; Apr. 23; Sp. p. 4464; Gaz. vol. 177; p. 800.
Lathrop, L. S., *et al.* (See Barker, John, assignor.)
Lathrop, P. A., *et al.* (See Barker, John, assignor.)
Lathrop, Ralph L., Touchet, Wash. Box-tongs. No. 1,036,863; Aug. 27; Gaz. vol. 181; p. 938.
Latimer, George W. (See Walters and Latimer.)
Latimer, James A., Youngstown, Ohio. Electric controller. No. 1,040,359; Oct. 8; Gaz. vol. 183; p. 261.
Latour, Marius C. A. (See Weintraub and Latour.)
Latour, Marius C. A., Sèvres, France, assignor to General Electric Company. Alternating-current dynamo. No. 1,016,021; Jan. 30; Sp. p. 6436; Gaz. vol. 174; p. 1120.
Latshaw, John A., Vanport, Pa. Nut-lock. No. 1,017,770; Feb. 20; Sp. p. 3349; Gaz. vol. 175; p. 600.
Latta, Albert E., Washington, D. C. Razor-sharpener. No. 1,019,261; Mar. 5; Sp. p. 556; Gaz. vol. 176; p. 89.
Latta, Benjamin F., St. Paul, Minn. Briquet and binder. No. 1,033,910; July 30; Gaz. vol. 180; p. 1193.
Latta, Emmit G., Syracuse, N. Y., assignor, by mesne assignments, to Union Typewriter Company, Jersey City, N. J. Type-writing machine. No. 1,025,752; May 7; Sp. p. 1419; Gaz. vol. 178; p. 223.
Latta, Emmit G., assignor of one-half to H. A. Moyer, Syracuse, N. Y. Type-writing machine. No. 1,038,906; Sept. 17; Gaz. vol. 182; p. 655.
Latta, Emmit G., assignor of one-half to H. A. Moyer, Syracuse, N. Y. Type-writing machine No. 1,038,907; Sept. 17; Gaz. vol. 182; p. 656.
Latta, Nisbet, San Francisco, Cal. Operating gas-producers. No. 1,018,832; Feb. 27; Sp. p. 5781; Gaz. vol. 175; p. 998.
Latta, William J. (See Kitsee, Isidor, assignor.)
Lattig, Jacob W., assignor to American Automatic Telephone Co., Rochester, N. Y. Impulse-transmitter. No. 1,030,412; June 25; Sp. p. 5120; Gaz. vol. 179; p. 913.
Lattig, Jacob W., and C. L. Goodrum, assignors to American Automatic Telephone Company, Rochester, N. Y. Combined automatic telephone-exchange and fire-alarm system. No. 1,027,053; May 21; Sp. p. 4361; Gaz. vol. 178; p. 740.
Latulip, Fred, assignor of one-half to A. F. Vadebonceur, Syracuse, N. Y. Concrete roof-tile. No. 1,030,590; June 25; Sp. p. 5630; Gaz. vol. 179; p. 976.

Latulip, Fred, assignor of one-half to A. F. Vadebonceur, Syracuse, N. Y. Machine for making tile. No. 1,030,591; June 25; Sp. p. 5632; Gaz. vol. 179; p. 976.
Latus, Elmer J. (See Schoentag and Latus.)
Laubeuf, Maxime A., Paris, France. Safety-weight for submarine vessels. No. 1,035,021; Aug. 6; Gaz. vol. 181; p. 206.
Laubscher, Alexander, Bridgeport, Conn., assignor to The Singer Manufacturing Company. Strip folding and guiding attachment for sewing-machines. No. 1,015,967; Jan. 30; Sp. p. 6321; Gaz. vol. 174; p. 1100.
Laubscher, August, assignor to United States Envelope Company, Springfield, Mass. Gum-roll governor for envelop-machines. No. 1,029,304; June 11; Sp. p. 2668; Gaz. vol. 179; p. 452.
Laude, William H., Monticello, Iowa. Sod-cutter. No. 1,018,064; Feb. 20; Sp. p. 4089; Gaz. vol. 175; p. 703.
Laudet, Georges, and L. Gaumont, assignors to Société des Etablissements Gaumont, Paris, France. Energy-relay. No. 1,014,235; Jan. 9; Sp. p. 2553; Gaz. vol. 174; p. 426.
Laudig, Oscar O., *et al.* (See Stewart, James D., assignor.)
Lauer, Emil A., Brooklyn, N. Y. Lamp. No. 1,026,684; May 21; Sp. p. 3509; Gaz. vol. 178; p. 612.
Lauer, John J., Alturas, Cal. Aeroplane balancing and controlling means. No. 1,033,710; July 23; Gaz. vol. 180; p. 1098.
Lauf, Hans, and M. Kleber, Magdeburg, Germany; said Kleber assignor to said Lauf. Turret-lathe. No. 1,037,935; Sept. 10; Gaz. vol. 182; p. 288.
Laufer, Christopher F., assignor to R. B. Laufer, Richmond, Cal. Valve. No. 1,028,747; June 4; Sp. p. 1471; Gaz. vol. 179; p. 227.
Laufer, Rena B. (See Laufer, Christopher F., assignor.)
Lauffer, Emil J. (See Huffman and Lauffer.)
Laufman, John S., Western, Nebr. Starting mechanism. No. 1,023,944; Apr. 23; Sp. p. 4673; Gaz. vol. 177; p. 830.
Laugenour, Hazel B., Oakland, Cal. Stage appliance. No. 1,046,813; Dec. 10; Gaz. vol. 185; p. 394.
Laughinghouse, Samuel V., Grifton, N. C. Soil-pipe. No. 1,034,629; Aug. 6; Gaz. vol. 181; p. 75.
Laughlin, Catherine H. (See Laughlin, James W., assignor.)
Laughlin, Henry D. (See Huntoon, Charles F., assignor.)
Laughlin, Homer, Jr. (See Schuyler and Laughlin.)
Laughlin, James T., Boise, Idaho. Eyeglass-mounting. (Reissue.) No. 13,394; Apr. 2; Sp. p. 1335; Gaz. vol. 177; p. 217.
Laughlin, James W., assignor to C. H. Laughlin, Detroit, Mich. Fountain-pen. No. 1,042,695; Oct. 29; Gaz. vol. 183; p. 1153.
Laughlin, James W., assignor to C. H. Laughlin, Detroit, Mich. Fountain-pen. No. 1,042,804; Oct. 29; Gaz. vol. 183; p. 1190.
Laughlin, Judson, Ledyard, Iowa. Lock and key. No. 1,020,208; Mar. 12; Sp. p. 2569; Gaz. vol. 176; p. 436.
Laughlin, Owen, Mount Sterling, Ky. Filter. No. 1,033,329; July 23; Gaz. vol. 180; p. 974.
Laukhuff, Alfred, Milwaukee, Wis. Paper-cutting mechanism. (Reissue.) No. 13,486; Nov. 12; Gaz. vol. 184; p. 526.
Laun, Christian F., assignor to Berbecker & Rowland Manufacturing Company, Waterville, Conn. Furniture-caster. No. 1,029,136; June 11; Sp. p. 2318; Gaz. vol. 179; p. 395.
Laun, Christian F., assignor to Berbecker & Rowland Manufacturing Company, Waterville, Conn. Curtain-ring. No. 1,034,630; Aug. 6; Gaz. vol. 181; p. 75.
Laun, Christian F., assignor to Berbecker & Rowland Manufacturing Company, Waterville, Conn. Curtain-support. No. 1,037,936; Sept. 10; Gaz. vol. 182; p. 288.
Laun, Emil E. (See Thoren, Ernst F., assignor.)
Laundrie, George B. (See Langley and Laundrie.)
Laur, Edgar L., and G. Florence, Toronto, Ontario, Canada. Aerial propeller. No. 1,046,814; Dec. 10; Gaz. vol. 185; p. 394.
Laurenzi, Clyclolightes R. (See McBride, Charles R., assignor.)
Laurès, Clément B. B., Paris, France. Spherical goniometer. No. 1,023,858; Apr. 23; Sp. p. 4466; Gaz. vol. 177; p. 800.
Laurich, Joseph, New York, N. Y. Carriage-hinge. No. 1,015,040; Jan. 16; Sp. p. 4348; Gaz. vol. 174; p. 730.
Lauritsen, Bertran, Twin Brooks, S. D. Latch for sliding doors. No. 1,016,422; Feb. 6; Sp. p. 411; Gaz. vol. 175; p. 65.
Lauritzen, Albert, Charlotte, and J. F. Nielsen, Greenville, Mich. Potato-digger. No. 1,014,493; Jan. 9; Sp. p. 3084; Gaz. vol. 174; p. 513.
Lauscha, Theodore A., Chenoa, Ill. Wrench. No. 1,044,541; Nov. 19; Gaz. vol. 184; p. 582.
Lauster, August P. (See Krulan and Lauster.)
Lausterer, William J., Jamestown, assignor to Empire Voting Machine Company, Rochester and Jamestown, N. Y. Primary-election lock-out for voting-machines. No. 1,036,276; Aug. 20; Gaz. vol. 181; p. 707.
Laut, George. (See Miller, George B., assignor.)
Lauterbach, Eduard and J., Berlin, Germany. Vapor lamp and burner. No. 1,016,639; Feb. 6; Sp. p. 941; Gaz. vol. 175; p. 141.
Lauterbach, Josef. (See Lauterbach, Eduard and J.)
Lauzon, Calvin A., Grand Rapids, assignor, by mesne assignments, to Wm. Heap & Co., Muskegon, Mich. Electric oven or cooker. No. 1,027,739; May 28; Sp. p. 5781; Gaz. vol. 178; p. 1007.
Lauzon, Calvin A., and J. A. Rose, Grand Rapids, assignors, by mesne assignments, to Wm. Heap & Co., Muskegon, Mich. Fireless cooker. No. 1,029,137; June 11; Sp. p. 2320; Gaz. vol. 179; p. 396.
Lavallee, Charles, New Market, N. H. Let-back mechanism for looms. No. 1,022,370; Apr. 2; Sp. p. 1284; Gaz. vol. 177; p. 207.
Lavallee, Charles, New Market, N. H. Selvage-motion for looms. No. 1,027,860; May 28; Sp. p. 6087; Gaz. vol. 178; p. 1049.
Lavallee, Charles, New Market, N. H. Harness stop-motion for looms. No. 1,045,569; Nov. 26; Gaz. vol. 184; p. 970.
Lavanway, William W., and G. A. Nenno, San Francisco, Cal. Disappearing bed and housing therefor. No. 1,039,967; Oct. 1; Gaz. vol. 183; p. 98.
Lavedan, Lucius, and H. Amigues, New Orleans, La. Decorticating-machine. No. 1,017,104; Feb. 13; Sp. p. 1956; Gaz. vol. 175; p. 336.
Lavender, Ira, assignor of one-half to D. R. Dysart, Webster City, Iowa. Carbureting device. No. 1,048,083; Dec. 24; Gaz. vol. 185; p. 891.
Lavergne dit Renaud, Louis, Montreal, Quebec, Canada. Gully. No. 1,032,427; July 16; Gaz. vol. 180; p. 630.
Lavigne, John, Everett, Wash. Shade-roller support. No. 1,023,111; Apr. 9; Sp. p. 2888; Gaz. vol. 177; p. 491.
Lavigne, Joseph P., Detroit, Mich. Lubricator. No. 1,016,569; Feb. 6; Sp. p. 783; Gaz. vol. 175; p. 116.
Lavigne, Louis, New York, N. Y. Device for applying fluids. No. 1,048,418; Dec. 24; Gaz. vol. 185; p. 1002.
Lavoie, Alphonse J., Outremont, Quebec, Canada. Internal-combustion engine. No. 1,044,198; Nov. 12; Gaz. vol. 184; p. 433.
Lavoie, Germain A., Glace Bay, Nova Scotia, Canada. Rotary bookcase. No. 1,013,664; Jan. 2; Sp. p. 1265; Gaz. vol. 174; p. 199.
Lavoie, Joseph, Montreal, Quebec, Canada. Detachable shoe-heel. No. 1,046,815; Dec. 10; Gaz. vol. 185; p. 395.
Law, Alexander H. (See Parsons and Law.)
Law, E. McIvor, Miami, Fla. Package-tie. No. 1,031,188; July 2; Gaz. vol. 180; p. 121.
Law, John A., *et al.* (See Smith, Robert H., assignor.)
Lawaczeck, Franz, Aerzen, near Hameln, Germany. Turbine compressor or pump for elastic fluids. No. 1,047,663; Dec. 17; Gaz. vol. 185; p. 721.
Lawhon, John W., Trundles Cross Roads, Tenn. Combined fire extinguishing and indicating apparatus. No. 1,027,260; May 21; Sp. p. 4803; Gaz. vol. 178; p. 810.
Lawhon, Laura D., Yellow Pine, La. Cuspidor-cleaner. No. 1,014,236; Jan. 9; Sp. p. 2556; Gaz. vol. 174; p. 426.
Lawhorn, William T., and A. J. Marks, Bicknell, Ind. Automatic railway-switch. No. 1,022,631; Apr. 9; Sp. p. 1855; Gaz. vol. 177; p. 324.
Lawler, Claude B., Amarillo, Tex. Seal-padlock. No. 1,024,996; Apr. 30; Sp. p. 6992; Gaz. vol. 177; p. 1229.
Lawler, James J., Pelham, N. Y. Thermostatic valve for water. No. 1,024,729; Apr. 30; Sp. p. 6441; Gaz. vol. 177; p. 1135.
Lawler, Patrick J., Westside, assignor of one-half to G. R. Richardson, Denison, Iowa. Churn. No. 1,018,508; Feb. 27; Sp. p. 5047; Gaz. vol. 175; p. 887.
Lawless, Christopher J., Lincoln, Nebr. Silo-elevator. No. 1,045,301; Nov. 26; Gaz. vol. 184; p. 874.
Lawless, John, assignor of one-half to J. McGarity, Springfield, Ill. Car-cager. No. 1,044,460; Nov. 12; Gaz. vol. 184; p. 523.
Lawlor, Michael W., Needham Heights, Mass. Poultry-feeder. No. 1,038,766; Sept. 17; Gaz. vol. 182; p. 606.
Lawlor, Simeon C., Chicago, Ill. Implement-holder. No. 1,015,625; Jan. 23; Sp. p. 5588; Gaz. vol. 174; p. 957.
Lawlor, Simeon C., assignor to American Standard Manufacturing Company, Chicago, Ill. Implement-clamp. No. 1,025,280; May 7; Sp. p. 376; Gaz. vol. 178; p. 61.
Lawnin, Albert W., St. Louis, Mo., assignor of one-half to L. D. Lawnin, Edwardsville, Ill. Automatic drain-cock. No. 1,021,537; Mar. 26; Sp. p. 5400; Gaz. vol. 176; p. 972.
Lawnin, Louis D. (See Lawnin, Albert W., assignor.)
Lawnin, Louis D., Edwardsville, Ill., assignor of one-half to N. O. Nelson Manufacturing Company, St. Louis, Mo. Drinking-fountain. No. 1,018,572; Feb. 27; Sp. p. 5237; Gaz. vol. 175; p. 910.
Lawnin, Louis D., assignor of one-half to N. O. Nelson Manufacturing Company, Edwardsville, Ill. Seat-actuated flushing apparatus for water-closets. No. 1,023,572; Apr. 16; Sp. p. 3870; Gaz. vol. 177; p. 681.
Lawrence, E. T. (See Brandes, Herman H., assignor.)

Alphabetical list of patentees—Continued.

Lawrence, Edward E., Cambridge, Mass., assignor to Loose-Wiles Biscuit Company, Kansas City, Mo. Scrapper for dough-cutting machines. No. 1,032,069; July 9; Gaz. vol. 180; p. 463.
Lawrence, Edward E., Cambridge, Mass., assignor to Loose-Wiles Biscuit Company, Kansas City, Mo. Dough-cutter. No. 1,032,070; July 9; Gaz. vol. 180; p. 463.
Lawrence, Edward M., Lubec, Me. Canning sardines. No. 1,037,156; Aug. 27; Gaz. vol. 181; p. 1035.
Lawrence, Edwin F. (See Lawrence, John H., assignor.)
Lawrence, Edwin F., *et al.* (See Scott, Clarence, assignor.)
Lawrence, Ernest M., New York, N. Y., assignor, by mesne assignments, to The Electrene Company. Fire-extinguisher. No. 1,027,133; May 21; Sp. p. 4562; Gaz. vol. 178; p. 766.
Lawrence, Ezra, assignor to The Baird Machine Company, Oakville, Conn. Bottle-carrying handle. No. 1,013,406; Jan. 2; Sp. p. 696; Gaz. vol. 174; p. 110.
Lawrence, George R., assignor to The W. W. Sly Manufacturing Company, Cleveland, Ohio. Machine for circling metal blanks. No. 1,038,606; Sept. 17; Gaz. vol. 182; p. 550.
Lawrence, Jacob A., Valparaiso, Ind. Wheelbarrow. No. 1,031,454; July 2; Gaz. vol. 180; p. 211.
Lawrence, John H., *et al.* (See Scott, Clarence, assignor.)
Lawrence, John H., assignor of one-half to E. F. Lawrence, Sterling, Ill. Door-hanger track. No. 1,040,960; Oct. 8; Gaz. vol. 183; p. 467.
Lawrence Manufacturing Company. (See Paquette, Exilias, assignor.)
Lawrence Manufacturing Company. (See Walker, Everett H., assignor.)
Lawrence, Phebe A., St. Paul, Minn. Retainer for receptacle-covers. No. 1,026,096; May 14; Sp. p. 2229; Gaz. vol. 178; p. 376.
Lawrence, Robert M., assignor to H. Mestayer, New Orleans, La. Food product. No. 1,035,609; Aug. 13; Gaz. vol. 181; p. 439.
Lawrence, W., *et al.* (See Davis, Claude B., assignor.)
Lawrence, Walter H., Harwich Port, Mass. Flying-machine propeller. No. 1,015,197; Jan. 16; Sp. p. 4642; Gaz. vol. 174; p. 783.
Lawrence, Warren L., Eureka, Ill. Mausoleum. No. 1,041,637; Oct. 15; Gaz. vol. 183; p. 726.
Lawrenson, Judge P., Palestine, Tex. Rotary engine. No. 1,046,203; Dec. 3; Gaz. vol. 185; p. 139.
Lawrenz, Emil, Baltimore, Md., assignor, by mesne assignments, to Mergenthaler Linotype Company, New York, N. Y. Typographic machine. No. 1,017,771; Feb. 20; Sp. p. 3350; Gaz. vol. 175; p. 600.
Lawrenz, Emil, assignor to Ott. Mergenthaler Company, Baltimore, Md. Typographic machine. No. 1,017,772; Feb. 20; Sp. p. 3375; Gaz. vol. 175; p. 600.
Lawrenz, William F., St. Louis, Mo. Billiard-table. No. 1,036,277; Aug. 20; Gaz. vol. 181; p. 707.
Lawrie, Harry, Omaha, Nebr. Water-heating attachment for furnaces. No. 1,026,753; May 21; Sp. p. 3649; Gaz. vol. 178; p. 635.
Laws, Benjamin A. (See Frey, John E., assignor.)
Lawshe, Walter D. (See Johnson, Baueris, Jensen, and Lawshe.)
Lawson, Algernon S., Fossil, Ala. Metallic tie and rail-clamp. No. 1,041,106; Oct. 15; Gaz. vol. 183; p. 551.
Lawson, Anthony D., *et al.* (See Miller, Jeremiah, assignor.)
Lawson, Benjamin S., New York, assignor to A. L. Merrick, Syracuse, N. Y. Journal-box-cover fastener. No. 1,048,323; Dec. 24; Gaz. vol. 185; p. 971.
Lawson, Daniel A. (See Dozier, James H., assignor.)
Lawson, Frank J. (See Balder, Lawson, and Davis.)
Lawson, James R., Dallas, assignor of one-third to W. H. Yoakum, Fort Worth, and one-third to C. W. White, Waco, Tex. Electric heater for liquids. No. 1,025,281; May 7; Sp. p. 377; Gaz. vol. 178; p. 61.
Lawson, John. Central Falls, R. I. Knitting-machine. No. 1,045,570; Nov. 26; Gaz. vol. 184; p. 970.
Lawson, Kyle, *et al.* (See Smith, Charles D., assignor.)
Lawson, Lindley S., assignor to Lawson Manufacturing Company, Homestead, Pa. Thermostatic valve. No. 1,038,159; Sept. 10; Gaz. vol. 182; p. 362.
Lawson Manufacturing Company. (See Lawson, Lindley S., assignor.)
Lawson, Nelson G., Denver, Colo. Beet-harvester. No. 1,031,189; July 2; Gaz. vol. 180; p. 121.
Lawson, Nelson G., Denver, Colo. Beet-drill. No. 1,044,398; Nov. 12; Gaz. vol. 184; p. 502.
Lawson, Olof F., New Sharon, Iowa. Extension-step for railway-cars. No. 1,032,916; July 16; Gaz. vol. 180; p. 795.
Lawson, Peter C., Boston, Mass. Fastening device or toggle. No. 1,019,057; Mar. 5; Sp. p. 94; Gaz. vol. 176; p. 19.
Lawson, Welcome H., Poughkepsie, N. Y. Centrifugal separator. No. 1,038,607; Sept. 17; Gaz. vol. 182; p. 550.
Lawson, William C., Roanoke, Va. Conveyer apparatus. No. 1,021,052; Mar. 26; Sp. p. 4350; Gaz. vol. 176; p. 807.
Lawson, William C., Roanoke, Va. Conveyer-loading apparatus. No. 1,047,252; Dec. 17; Gaz. vol. 185; p. 574.
Lawton, Burton L. (See Wilcox and Lawton.)
Lawton, Burton L., assignor to The Connecticut Shock Absorber Company, Meriden, Conn. Shock-absorber adjustment. No. 1,022,145; Apr. 2; Sp. p. 836; Gaz. vol. 177; p. 133.
Lawton, Charles F., assignor to F. W. Huestis, New York, N. Y. Rendering mineral substances available as fertilizers by aid of fermentation. No. 1,029,378; June 11; Sp. p. 2848; Gaz. vol. 179; p. 479.
Lawton, Charles H., Warsaw, N. Y. Bean-pulling device. No. 1,018,916; Feb. 27; Sp. p. 5950; Gaz. vol. 175; p. 1025.
Lawton, Charles L., Hancock, Mich. Dump-car. No. 1,016,570; Feb. 6; Sp. p. 785; Gaz. vol. 175; p. 117.
Lawton, Charles L., Hancock, Mich. Unloading device for mine-skips. No. 1,026,988; May 21; Sp. p. 4201; Gaz. vol. 178; p. 717.
Lawton, Robert W., San Francisco, Cal. Hydrocarbon-burner. No. 1,020,612; Mar. 19; Sp. p. 3420; Gaz. vol. 176; p. 605.
Lawyer, Frank G., assignor of one-half to W. A. Wheeler, Iola, Kans. Elevator-bucket. No. 1,038,608; Sept. 17; Gaz. vol. 182; p. 551.
Laxton, John W. R., Lynn, Mass. Valve. No. 1,014,070; Jan. 9; Sp. p. 2196; Gaz. vol. 174; p. 367.
Laycock, Arthur M., Detroit, Mich. Internal-combustion engine. No. 1,038,767; Sept. 17; Gaz. vol. 182; p. 606.
Laycock, John G., Russellville, Ohio. Attachment for beds. No. 1,045,571; Nov. 26; Gaz. vol. 184; p. 971.
Layhon, Arthur J., Lowell, Mass. Spring-cushion tire for vehicle-wheels. No. 1,028,889; June 11; Sp. p. 1779; Gaz. vol. 179; p. 311.
Layman, Alfred C., Wilmington, Del. Leather-staking machine. No. 1,043,050; Oct. 29; Gaz. vol. 183; p. 1276.
Layman, Lynn O., Fort Collins, Colo. Safety boiling device. No. 1,024,791; Apr. 30; Sp. p. 6583; Gaz. vol. 177; p. 1158.
Layne, David H., Cove, Oreg. Computing-measure. No. 1,013,883; Jan. 9; Sp. p. 1773; Gaz. vol. 174; p. 304.
Layne, Mahlon E., Houston, Tex. Well mechanism. (Reissue.) No. 13,467; Sept. 24; Gaz. vol. 182; p. 939.
Lázaga, Ignacio, Habana, Cuba, assignor to F. D. Canfield, Yonkers, N. Y. Packing-machine. No. 1,018,429; Feb. 27; Sp. p. 4860; Gaz. vol. 175; p. 861.
Lazaron, Samuel L., Cincinnati, Ohio. Combined convertible souvenir and advertising postal card, puzzle, boat, and box. No. 1,029,069; June 11; Sp. p. 2167; Gaz. vol. 179; p. 373.
Lazarus, Joseph, Boston, Mass. Elastic tire. No. 1,017,980; Feb. 20; Sp. p. 3897; Gaz. vol. 175; p. 674.
Lazell, Ellis W. (See Spackman and Lazell.)
Lazette, Clarence B. (See Torrey, Frank A., assignor.)
Lazzara, Vincenzo, New York, N. Y. Artificial leg. No. 1,044,542; Nov. 19; Gaz. vol. 184; p. 582.
Lazzaro, Carmelo, Mendoza, Argentina. Clock compensating pendulum. No. 1,017,678; Feb. 20; Sp. p. 3150; Gaz. vol. 175; p. 568.
Le Baron, George A., Sherbrooke, Quebec, Canada. Clothes-line pulley. No. 1,024,586; Apr. 30; Sp. p. 6129; Gaz. vol. 177; p. 1084.
Le Beau, Ernest A., assignor to Chicago Railway Equipment Company, Chicago, Ill. Brake-beam. No. 1,020,563; Mar. 19; Sp. p. 3308; Gaz. vol. 176; p. 590.
Le Beau, Ernest A., assignor to Chicago Railway Equipment Company, Chicago, Ill. Brake-beam. No. 1,023,474; Apr. 16; Sp. p. 3664; Gaz. vol. 177; p. 650.
Le Beau, Ernest A., assignor to Chicago Railway Equipment Company, Chicago, Ill. Brake-beam. No. 1,024,484; Apr. 23; Sp. p. 5837; Gaz. vol. 177; p. 1015.
Le Blond, Richard K., and W. F. Groene, assignors to R. K. Le Blond Machine Tool Co., Cincinnati, Ohio. Lathe. No. 1,044,544; Nov. 19; Gaz. vol. 184; p. 583.
Le Blond, Richard K., and W. F. Groene, Cincinnati, Ohio, assignors to R. K. Le Blond Machine Tool Company. Lathe-gearing. No. 1,044,545; Nov. 19; Gaz. vol. 184; p. 583.
Le Boeuf, Arthur W., Woonsocket, R. I., assignor to Electric Compositor Company, New York, N. Y. Linotype-mold. No. 1,027,551; May 28; Sp. p. 5399; Gaz. vol. 178; p. 946.
Le Breton, Edward, Cleveland, Ohio. Hose-coupling. No. 1,017,775; Feb. 20; Sp. p. 3412; Gaz. vol. 175; p. 601.
Le Chatelier, André G., Marseille, France. Blowpipe. No. 1,032,071; July 9; Gaz. vol. 180; p. 464.
Le Chatelier, André G., Marseille, France. Blowpipe. No. 1,032,072; July 9; Gaz. vol. 180; p. 464.
Le Clair, Louis J., London, England. Balancing device for sliding windows. No. 1,035,203; Aug. 13; Gaz. vol. 181; p. 298.
Le Compte Company, The. (See Le Compte, Louis and J., assignors.)
Le Compte, Joseph. (See Le Compte, Louis and J.)
Le Compte, Louis and J., Aurora, assignors, by mesne assignments, to The Le Compte Company, Chicago, Ill. Car, hose, and electric-wire coupling. No. 1,039,147; Sept. 24; Gaz. vol. 182; p. 750.
Le Cras, Thomas J., Toronto, Ontario, Canada. Bed-jack. No. 1,031,798; July 9; Gaz. vol. 180; p. 372.

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Le Doyen, Alfred A., assignor of one-fourth to W. B. Toole, Augusta, Ga. Crate. No. 1,019,665; Mar. 5; Sp. p. 1441; Gaz. vol. 176; p. 222.
Le Duc, Joseph, assignor of one-third to F. G. Curtis, Jamestown, N. Y. Billiard-cue-tip holder. No. 1,033,071; July 16; Gaz. vol. 180; p. 848.
Le Fever, Albert H., New York, N. Y. Transmission device. No. 1,048,184; Dec. 24; Gaz. vol. 185; p. 925.
Le Fevre, William D., Dover, Del. Airship. No. 1,028,891; June 11; Sp. p. 1782; Gaz. vol. 179; p. 311.
Le Ford, Amelia E., Boston, Mass. Disinfectant device for mouthpieces. No. 1,022,247; Apr. 2; Sp. p. 1050; Gaz. vol. 177; p. 167.
Le Gendre, Albert A., Warren, Ark. Whip-locking socket. No. 1,028,229; June 4; Sp. p. 374; Gaz. vol. 179; p. 53.
Le Jeune, Landry J., Welcome, La. Leg-pulling apparatus. No. 1,021,688; Mar. 26; Sp. p. 5670; Gaz. vol. 176; p. 1021.
Le Mieux, Victoria M., Faribault, Minn. Brush. No. 1,029,070; June 11; Sp. p. 2170; Gaz. vol. 179; p. 373.
Le Page, Rodalph H., Chicago, Ill. Mirror-holder. No. 1,029,071; June 11; Sp. p. 2170; Gaz. vol. 179; p. 374.
Le Papillon Corset Co. (See Darrah, Mary E. G., assignor.)
Le Pontois, Leon, New Rochelle, assignor to A. R. Mosler & Co., New York, N. Y. Magnetic speed-indicator. No. 1,028,488; June 4; Sp. p. 942; Gaz. vol. 179; p. 141.
Le Pontois, Leon J., New Rochelle, N. Y. Automatic electric piano-player. No. 1,046,471; Dec. 10; Gaz. vol. 185; p. 273.
Le Pontois, Leon J., New Rochelle, N. Y., assignor, by mesne assignments, to H. W. Johns. Ignition device for gas-engines. No. 1,045,859; Dec. 3; Gaz. vol. 185; p. 22.
Le Roy Fibre Company. (See Lappen, James E., assignor.)
Le Roy, Jean A., New York, N. Y. Kinetoscope. No. 1,027,135; May 21; Sp. p. 4566; Gaz. vol. 178; p. 767.
Le Vasseur-Belisle, Joseph N., Worcester, Mass. Loom shuttle-threader. No. 1,043,780; Nov. 5; Gaz. vol. 184; p. 257.
Lea, Charles, Boston, Mass., assignor to American Warp Drawing Machine Company. Warp-drawing machine. No. 1,017,296; Feb. 13; Sp. p. 2362; Gaz. vol. 175; p. 402.
Lea, Henry I., assignor, by mesne assignments, to The Colonial Trust Company, trustee, Pittsburgh, Pa. Generating steam. No. 1,031,721; July 9; Gaz. vol. 180; p. 345.
Leach, Floyd D., Chicago, Ill. Friction-gearing. No. 1,028,944; June 11; Sp. p. 1905; Gaz. vol. 179; p. 329.
Leach, John, Blackburn, England. Medical inhaler. No. 1,028,890; June 11; Sp. p. 1780; Gaz. vol. 179; p. 311.
Leach, John, Sheppton, Pa. Manufacturing artificial coal. No. 1,035,452; Aug. 13; Gaz. vol. 181; p. 387.
Leach, Raymond J., Seekonk, Mass. Sight-feed oil-cup. No. 1,044,062; Nov. 12; Gaz. vol. 184; p. 388.
Leach, Shirley N., Sweet Water, Tex. Aseptic fountain syringe or irrigator. No. 1,017,773; Feb. 20; Sp. p. 3409; Gaz. vol. 175; p. 601.
Leadbeater, Frederick, Detroit, Mich. Valve. No. 1,031,652; July 2; Gaz. vol. 180; p. 279.
Leafgren, Andrew. (See Edlund and Leafgren.)
Leahy, Michael J., Waterville, Me. Builder for ring-spinning frames. No. 1,037,645; Sept. 3; Gaz. vol. 182; p. 157.
Leahy, Thomas W. (See O'Meara and Leahy.)
Leap, Harry, Camp Meeker, Cal. Resilient wheel. No. 1,014,884; Jan. 16; Sp. p. 4007; Gaz. vol. 174; p. 677.
Lear, John, Kingston-upon-Hull, England. Theater appliance. No. 1,015,041; Jan. 16; Sp. p. 4349; Gaz. vol. 174; p. 731.
Lear, William V., Aurora, Mo. Wringer-support. No. 1,045,302; Nov. 26; Gaz. vol. 184; p. 874.
Learned, Frank K., Royal Oak, Mich. Base-heater. No. 1,026,323; May 14; Sp. p. 2722; Gaz. vol. 178; p. 455.
Learned, John R., *et al.* (See Nelson, Albert H., assignor.)
Lease, Lyman G., Howland, Ohio. Concrete block and wall. No. 1,013,407; Jan. 2; Sp. p. 698; Gaz. vol. 174; p. 111.
Leask, Henry N., Egremont, England. Dynamometer. No. 1,014,494; Jan. 9; Sp. p. 3086; Gaz. vol. 174; p. 513.
Leasure, James W., Bradford, Pa. Protector or goggles. No. 1,020,994; Mar. 26; Sp. p. 4233; Gaz. vol. 176; p. 786.
Leasure, Laurence L., Winfield, Kans. Cushioning device for use on cars. No. 1,035,022; Aug. 6; Gaz. vol. 181; p. 206.
Leathem, James, assignor to Hermann, Aukam & Co., New York, N. Y. Sewing-machine. No. 1,017,426; Feb. 13; Sp. p. 2645; Gaz. vol. 175; p. 448.
Leathem, James, assignor to Hermann, Aukam & Co., New York, N. Y. Sewing-machine. No. 1,017,567; Feb. 13; Sp. p. 2927; Gaz. vol. 175; p. 495.
Leathem, James, assignor to Hermann, Aukam & Co., New York, N. Y. Sewing-machine. No. 1,017,568; Feb. 13; Sp. p. 2930; Gaz. vol. 175; p. 495.
Leathers, Frank H., Winn, Me. Cattle-tie. No. 1,016,423; Feb. 6; Sp. p. 412; Gaz. vol. 175; p. 65.
Leathers, Warner B., Atlanta, Ga. Bobbin-stripper. No. 1,048,324; Dec. 24; Gaz. vol. 185; p. 971.
Leaver, James M., Longbeach, Cal. Dry-kiln for lumber. No. 1,039,301; Sept. 24; Gaz. vol. 182; p. 807.
Leaver, James M., Longbeach, Cal. Dry-kiln for lumber. No. 1,039,302; Sept. 24; Gaz. vol. 182; p. 807.
Leaver, William H., and C. H. Smith, Chicago, Ill. Stock-ringer. No. 1,023,112; Apr. 9; Sp. p. 2889; Gaz. vol. 177; p. 491.
Leavitt, Byron C. (See Watson, Alexander, assignor.)
Leavitt, Frank M., Smithtown, assignor to E. W. Bliss Company, Brooklyn, N. Y. Heater for automobile torpedoes. No. 1,022,486; Apr. 9; Sp. p. 1544; Gaz. vol. 177; p. 277.
Leavitt, Frank M., Smithtown, assignor to E. W. Bliss Company, Brooklyn, N. Y. Diving-gear for torpedoes. No. 1,033,810; July 30; Gaz. vol. 180; p. 1158.
Leavitt, Frank M., Smithtown, assignor to E. W. Bliss Company, Brooklyn, N. Y. Stopping device for automobile torpedoes. No. 1,044,543; Nov. 19; Gaz. vol. 184; p. 582.
Leavitt, John L., Copperton, N. Mex. Woodworking-tool. No. 1,017,774; Feb. 20; Sp. p. 3410; Gaz. vol. 175; p. 601.
Leavitt Machine Company. (See Smith and Williams, assignors.)
Leavitt Machine Company. (See Williams, Thomas B., assignor.)
Lebby, States L., James Island, S. C. Ignition system. No. 1,044,399; Nov. 12; Gaz. vol. 184; p. 503.
Leberman, Joseph E., Sheboygan, Wis. Oil-catcher. No. 1,020,564; Mar. 19; Sp. p. 3309; Gaz. vol. 176; p. 590.
Lebherz, Christian, Oberstenfeld, Germany. Regulating device for automobiles. No. 1,037,937; Sept. 10; Gaz. vol. 182; p. 289.
Leblanc, Maurice, Paris, France. Refrigerating-machine. No. 1,029,201; June 11; Sp. p. 2455; Gaz. vol. 179; p. 418.
Leblanc, Maurice, Croissy, assignor to Societe Anonyme pour l'Exploitation des Procedes Westinghouse-Leblanc, Paris, France. Ejector. No. 1,031,722; July 9; Gaz. vol. 180; p. 345.
Leblanc, Maurice, Croissy, assignor to Ste Ame pour l'Exploitation des Procèdès Westinghouse Leblanc, Paris, France. Elastic-fluid compressor. No. 1,035,364; Aug. 13; Gaz. vol. 181; p. 357.
Leblanc, Maurice, assignor to Société Anonyme pour l'Exploitation des Procedes Westinghouse Leblanc, Paris, France. Refrigerating apparatus. No. 1,031,942; July 9; Gaz. vol. 180; p. 421.
Lebovitz, Louis, Pittsburgh, Pa. Gas-stove. No. 1,030,000; June 18; Sp. p. 4207; Gaz. vol. 179; p. 729.
Lebreil, François, *et al.* (See Nowak, Ottokar H., assignor.)
Lebreil, Francois, Villeurbanne, and R. Desgeorge, Lyon, France. Manufacture of imitation horn, shell, and the like. No. 1,023,022; Apr. 9; Sp. p. 2697; Gaz. vol. 177; p. 460.
Lebzelter, William F., *et al.* (See Parchem, Albert J., assignor.)
Lechner, Arthur O., assignor to Lechner & Schoenberger Company, Pittsburgh, Pa. Pianoforte. No. 1,013,604; Jan. 2; Sp. p. 1108; Gaz. vol. 174; p. 178.
Lechner & Schoenberger Company. (See Lechner, Arthur O., assignor.)
Lechtenberg, Henry, Quincy, Ill. Crusher. No. 1,039,062; Sept. 17; Gaz. vol. 182; p. 704.
Leclerc, Moïse J., and W. Schmitt, assignors to said Leclerc and F. W. Darnstaedt, New York, N. Y. Rear-end buffer for automobiles. No. 1,034,125; July 30; Gaz. vol. 180; p. 1269.
Lecoche, Jules, Westminster, London, England. Direct-current electric motor. No. 1,031,561; July 2; Gaz. vol. 180; p. 247.
Lecoutre, Auguste J., Worcester, Mass., assignor to Royal Worcester Corset Company. Front steels on corsets. No. 1,037,499; Sept. 3; Gaz. vol. 182; p. 110.
Leddell, William A., Red Bank, assignor to H. F. Merriam, Summit, N. J. Die-casting apparatus. No. 1,013,665; Jan. 2; Sp. p. 1267; Gaz. vol. 174; p. 199.
Ledeboer, Peter G., Chicago, Ill. Combination driving mechanism and differential. No. 1,030,097; June 18; Sp. p. 4426; Gaz. vol. 179; p. 764.
Lederer, Anton, Atzgersdorf, near Vienna, Austria-Hungary. Manufacture of exceedingly-thin metallic glowing filaments for electric incandescent lamps No. 1,035,883; Aug. 20; Gaz. vol. 181; p. 569.
Lederer, Anton, Atzgersdorf, near Vienna, Austria-Hungary. Manufacture of tungsten filaments for incandescent electric lamps. No. 1,047,540; Dec. 17; Gaz. vol. 185; p. 676.
Lederer, Anton, Atzgersdorf, near Vienna, Austria-Hungary. Support for metallic glow-filaments for electric incandescent lamps. No. 1,047,541; Dec. 17; Gaz. vol. 185; p. 676.
Lederer, Anton, Vienna, Austria-Hungary, assignor to Westinghouse Lamp Company. Manufacture of tungsten filaments for incandescent electric lamps. No. 1,034,018; July 30; Gaz. vol. 180; p. 1233.
Lederer, Friedrich, Milwaukee, Wis. Automobile-bumper. No. 1,035,610; Aug. 13; Gaz. vol. 181; p. 439.
Lederer, George J. (See Falter and Lederer.)

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Lederer, John, Philadelphia, Pa. Eyeglass-cleaner. No. 1,018,430; Feb. 27; Sp. p. 4865; Gaz. vol. 175; p. 861.
Lederer, Leonhard, Sulzbach, Germany. Filaments and other products obtained from cellulose compounds. No. 1,028,748; June 4; Sp. p. 1472; Gaz. vol. 179; p. 227.
Lederle, John P., Chicago, Ill. Making dental inlays. No. 1,013,666; Jan. 2; Sp. p. 1275; Gaz. vol. 174; p. 199.
Lederman, John E., assignor to Security Sealing & Stamping Machine Company, Chicago, Ill. Envelop sealing and stamping machine. No. 1,047,664; Dec. 17; Gaz. vol. 185; p. 721.
Ledington, Oley L., and J. Sandell, Marquette, Kans. Culvert-mold. No. 1,018,396; Feb. 20; Sp. p. 4778; Gaz. vol. 175; p. 817.
Ledoux, John W., Swarthmore, Pa. Fluid-meter. No. 1,026,324; May 14; Sp. p. 2723; Gaz. vol. 178; p. 455.
Ledoux, John W., Swarthmore, Pa. Liquid-meter. No. 1,033,598; July 23; Gaz. vol. 180; p. 1062.
Ledoux, John W., Swarthmore, Pa. Fluid-meter. No. 1,038,768; Sept. 17; Gaz. vol. 182; p. 607.
Ledoux, John W., Swarthmore, Pa. Indicator. No. 1,041,107; Oct. 15; Gaz. vol. 183; p. 551.
Ledoux, John W., Swarthmore, Pa. Fluid-meter. No. 1,043,115; Nov. 5; Gaz. vol. 184; p. 24.
Leduc, Alfred D., Rouen, France. Means for replacing twyers in air-blast furnaces. No. 1,025,531; May 7; Sp. p. 953; Gaz. vol. 178; p. 148.
Lee, Alfred, Bellingham, Wash. Explosive-engine. No. 1,042,572; Oct. 29; Gaz. vol. 183; p. 1109.
Lee Broom & Duster Company. (See Beebe and Smith, assignors.)
Lee, Bryant, Brenham, Tex. Combined scrubber and mop. No. 1,015,569; Jan. 23; Sp. p. 5475; Gaz. vol. 174; p. 937.
Lee, Charles H., Toledo, Ohio. Hot-air furnace. No. 1,044,669; Nov. 19; Gaz. vol. 184; p. 627.
Lee, Charles M., assignor of one-third to D. E. Manns, Buffalo, N. Y. Starting device for explosive-engines. No. 1,044,546; Nov. 19; Gaz. vol. 184; p. 583.
Lee, Christen, Lebanon, Oreg. Pulverizing field-roller. No. 1,043,239; Nov. 5; Gaz. vol. 184; p. 68.
Lee, Clarence H., assignor, by mesne assignments, to J. R. Townsend, Los Angeles, Cal. Voting-machine. No. 1,025,632; May 7; Sp. p. 1179; Gaz. vol. 178; p. 181.
Lee, David A., Centerville, Iowa. Coaling system. No. 1,048,325; Dec. 24; Gaz. vol. 185; p. 972.
Lee, David C., St. Louis, Mo., assignor of one-half to H. M. Lee, Tacoma, Wash. Automatic printer for paper-rolls. No. 1,041,494; Oct. 15; Gaz. vol. 183; p. 680.
Lee, Ezra A. (See Du Val, James E., assignor.)
Lee, Frederick J., Wichita, Kans. Door-latch. No. 1,018,716; Feb. 27; Sp. p. 5530; Gaz. vol. 175; p. 958.
Lee, Frederick J., Wichita, Kans. Door-catch. No. 1,021,611; Mar. 26; Sp. p. 5545; Gaz. vol. 176; p. 995.
Lee, Frederick J., Wichita, Kans. Door-holder. No. 1,040,360; Oct. 8; Gaz. vol. 183; p. 261.
Lee, George A., Yonkers, N. Y., assignor to Automatic Packing & Labeling Company, Durham, N. C. Machine for packaging loose substances. No. 1,026,356; May 14; Sp. p. 2803; Gaz. vol. 178; p. 465.
Lee, George H., Omaha, Nebr. Brooder. No. 1,031,455; July 2; Gaz. vol. 180; p. 211.
Lee, George H., Omaha, Nebr. Regulator for chicken-incubators. No. 1,039,550; Sept. 24; Gaz. vol. 182; p. 894.
Lee, George H., Omaha, Nebr. Heating system for incubators. No. 1,040,701; Oct. 8; Gaz. vol. 183; p. 384.
Lee, George H., Omaha, Nebr. Toy boomerang. No. 1,040,702; Oct. 8; Gaz. vol. 183; p. 384.
Lee, George H., Omaha, Nebr. Chicken feed-trough. No. 1,043,609; Nov. 5; Gaz. vol. 184; p. 201.
Lee, Harriet, Kansas City, Mo. Garment-fitter for waists. No. 1,014,885; Jan. 16; Sp. p. 4008; Gaz. vol. 174; p. 677.
Lee, Helen, administratrix. (See Powers, Patrick W.)
Lee, Henry W., and G. H. Weedman, Mount Morgan, Queensland, Australia. Mine-alarm instrument. No. 1,018,328; Feb. 20; Sp. p. 4621; Gaz. vol. 175; p. 794.
Lee, Herbert, Kensington, near Sydney, New South Wales, Australia. Producing barrels of ovate section for rotary engines and the like. No. 1,028,036; May 28; Sp. p. 6461; Gaz. vol. 178; p. 1107.
Lee, Herbert M. (See Lee, David C., assignor.)
Lee, Isaac E., assignor of one-half to M. C. Houff and one-half to C. H. Alder, Dayton, Va. Cheese-cutter. No. 1,041,638; Oct. 15; Gaz. vol. 183; p. 726.
Lee, John H. (See Eyles, Anton G., assignor.)
Lee, John I., Huntersville, W. Va. Poultry-feeding appliance. No. 1,023,945; Apr. 23; Sp. p. 4674; Gaz. vol. 177; p. 830.
Lee, Joseph, Brooklyn, N. Y. Screw inserter and remover. No. 1,013,500; Jan. 2; Sp. p. 898; Gaz. vol. 174; p. 143.
Lee, Joseph, Brooklyn, N. Y. Screw inserter and remover. No. 1,022,427; Apr. 9; Sp. p. 1434; Gaz. vol. 177; p. 257.
Lee, Joseph L., Carbondale, Pa. Sprocket-chain. No. 1,021,786; Apr. 2; Sp. p. 63; Gaz. vol. 177; p. 14.
Lee, Oscar G., Jacobs Creek, Pa. Hat-pin-point protector. No. 1,029,379; June 11; Sp. p. 2850; Gaz. vol. 179; p. 479.
Lee, Roland L., Landrum, S. C. Cattle-staking device. No. 1,047,665; Dec. 17; Gaz. vol. 185; p. 721.
Lee, Thomas E., San Diego, Cal., assignor to Lee's Railway Switch Device Company. Automatic switch. No. 1,020,147; Mar. 20; Sp. p. 2421; Gaz. vol. 176; p. 413.
Lee, Thomas F. F., New York, N. Y. Locomotive feed-water heater. No. 1,043,848; Nov. 12; Gaz. vol. 184; p. 313.
Lee, Thomas F. F., New York, N. Y. Locomotive. No. 1,044,199; Nov. 12; Gaz. vol. 184; p. 434.
Lee, Thomas L., Jr., Westfield, N. J., assignor to The Hall Signal Company. Electric-circuit-controlling apparatus. No. 1,024,587; Apr. 30; Sp. p. 6130; Gaz. vol. 177; p. 1085.
Lee, Thomas L., Jr., Westfield, N. J., assignor to The Hall Signal Company. Electric-circuit-controlling apparatus. No. 1,024,588; Apr. 30; Sp. p. 6133; Gaz. vol. 177; p. 1085.
Lee, Ulysses G., New York, N. Y., assignor to Montague Mailing Machinery Co. Addressing and printing machine. No. 1,014,762; Jan. 16; Sp. p. 3714; Gaz. vol. 174; p. 634.
Lee, Ulysses G., Brooklyn, assignor to Montague Mailing Machinery Company, New York, N. Y. Inking-ribbon mechanism for addressing-machines. No. 1,017,221; Feb. 13; Sp. p. 2219; Gaz. vol. 175; p. 377.
Lee, Walter O. (See Smith and Lee.)
Lee, William A., Dubach, La. Wrench. No. 1,034,470; Aug. 6; Gaz. vol. 181; p. 23.
Lee, William D., Denver, Colo., assignor of one-half to G. G. Ewell, Phillips county, Kans. Horse-hitching weight. No. 1,024,406; Apr. 23; Sp. p. 5668; Gaz. vol. 177; p. 987.
Lee, William H., Chicago, Ill. Pocket-book. No. 1,017,006; Feb. 13; Sp. p. 1725; Gaz. vol. 175; p. 301.
Lee, William R., Rochester, N. Y. Arch-support. No. 1,045,303; Nov. 26; Gaz. vol. 184; p. 875.
Lee, William S., Detroit, Mich. Explosion-engine. No. 1,033,911; July 30; Gaz. vol. 180; p. 1193.
Lee, William S., assignor, by mesne assignments, to Briggs-Detroiter Company, Detroit, Mich. Vehicle-spring. No. 1,023,859; Apr. 23; Sp. p. 4468; Gaz. vol. 177; p. 801.
Lee, William S., assignor, by mesne assignments, to Briggs-Detroiter Company, Detroit, Mich. Magneto-mounting. No. 1,043,116; Nov. 5; Gaz. vol. 184; p. 24.
Lee, William W. (See Powers, Patrick W., assignor.)
Leech, Charles M., Lima, Ohio. Variable-speed transmission-gearing. No. 1,033,599; July 23; Gaz. vol. 180; p. 1063.
Leech, Charles M., Lima, Ohio. Combined fly-wheel and transmission-gearing. No. 1,039,968; Oct. 1; Gaz. vol. 183; p. 99.
Leech, Edward O., Hebron, Ill. Gate-retainer. No. 1,033,600; July 23; Gaz. vol. 180; p. 1063.
Leech, Leopold A., Carnegie, Pa. Flying-machine. No. 1,028,120; June 4; Sp. p. 53; Gaz. vol. 179; p. 12.
Leech, Walter S., Brooten, Minn. Apparatus for testing air. No. 1,022,955; Apr. 9; Sp. p. 2576; Gaz. vol. 177; p. 437.
Leeds, Morris E., Philadelphia, Pa. Temporary binder. No. 1,020,995; Mar. 26; Sp. p. 4234; Gaz. vol. 176; p. 786.
Leeds and Northrup Company. (See Northrup, Edwin F., assignor.)
Leeds, Robert R., assignor to The American Hardware Corporation, New Britain, Conn. Butt-hinge. No. 1,047,253; Dec. 17; Gaz. vol. 185; p. 574.
Leedy Manufacturing Company. (See Wanamaker, Charles B., assignor.)
Leek, John H., Brooklyn, N. Y. Tool for removing packing and other material. No. 1,040,361; Oct. 8; Gaz. vol. 183; p. 261.
Leek, Josephine B., Amagansett, N. Y. Bed attachment. No. 1,036,653; Aug. 27; Gaz. vol. 181; p. 869.
Leemann, Theodor and W., Zurich, Switzerland. Vending-machine. No. 1,026,919; May 21; Sp. p. 4038; Gaz. vol. 178; p. 693.
Leemann, Walter. (See Leemann, Theodor and W.)
Leeming, Harold B., Salford, England. Ventilating system. No. 1,027,740; May 28; Sp. p. 5783; Gaz. vol. 178; p. 1008.
Leeper, James F., Berkeley Springs, W. Va. Dispensing and forming apparatus. No. 1,028,749; June 4; Sp. p. 1474; Gaz. vol. 179; p. 228.
Leeper, James F., Lewistown, Pa. Smoking-pipe. No. 1,034,717; Aug. 6; Gaz. vol. 181; p. 105.
Leer, Alpheus A., *et al.* (See Ellis, Ed, assignor.)
Lees, George A., North Adams, Mass. Counter. No. 1,019,058; Mar. 5; Sp. p. 95; Gaz. vol. 176; p. 19.
Lee's Railway Switch Device Company. (See Lee, Thomas E., assignor.)
Lefebvre, Isidore, Aubervilliers, France. Sheet-metal cask. No. 1,017,427; Feb. 13; Sp. p. 2653; Gaz. vol. 175; p. 448.
Lefevre, George, Lawrence, Mass. Clothes-line support. No. 1,017,428; Feb. 13; Sp. p. 2655; Gaz. vol. 175; p. 448.

Alphabetical list of patentees—Continued.

Leffel, Clarence E., assignor to The Spirella Company, Meadville, Pa. Anode-support. No. 1,036,654; Aug. 27; Gaz. vol. 181; p. 869.
Leffel, Clarence E., assignor to The Spirella Company, Meadville, Pa. Anode-support. No. 1,036,655; Aug. 27; Gaz. vol. 181; p. 869.
Leffingwell, Burton, Clifton, assignor to Lanston Monotype Machine Company, Philadelphia, Pa. Type-casting machine. No. 1,024,514; Apr. 30; Sp. p. 5942; Gaz. vol. 177; p. 1060.
Leffler, Charles, New York, N. Y. Double-end can-seamer. No. 1,047,666; Dec. 17; Gaz. vol. 185; p. 722.
Lefkowitz, Isaac, New York, N. Y. Waist. No. 1,021,415; Mar. 26; Sp. p. 5141; Gaz. vol. 176; p. 930.
Lefkowitz, Isaac, New York, N. Y. Lady's dress. No. 1,037,270; Sept. 3; Gaz. vol. 182; p. 31.
Leflaive, Joseph, assignor to The Societe des Moteurs Sabathé, St.-Étienne, France. Atomizer for liquid-fuel motors. No. 1,027,054; May 21; Sp. p. 4366; Gaz. vol. 178; p. 740.
Leftwich, Clifford C., Council, Va. Coaling device. No. 1,040,703; Oct. 8; Gaz. vol. 183; p. 384.
Leger, Henry, Boston, Mass. Miter-box. No. 1,046,613; Dec. 10; Gaz. vol. 185; p. 323.
Leger, Splandien, Superior Junction, Ontario, Canada. Egg-beater or the like. No. 1,032,551; July 16; Gaz. vol. 180; p. 672.
Legge, Thomas A. (See Hamm and Legge.)
Leggett, Clinton H., New York, N. Y. Powder-distributer. No. 1,033,811; July 30; Gaz. vol. 180; p. 1158.
Leggett, Ross M., assignor of one-fourth to M. J. Fritz, one-fourth to F. I. Cornwell, and one-fourth to T. F. Hutzel, Ann Arbor, Mich. Ozonizer. No. 1,037,500; Sept. 3; Gaz. vol. 182; p. 110.
Leggett, Stephen. (See Ashford and Leggett.)
Legnard, Gilbert B., and E. Formato, Pittsburgh, Pa. Insulating-panel. No. 1,028,575; June 4; Sp. p. 1118; Gaz. vol. 179; p. 170.
Legrand, Charles, and A. Armel, Paris, France. Safety-bolt to lock and release the levers serving to operate from a distance a switch, signal, &c., for railways. No. 1,029,202; June 11; Sp. p. 2456; Gaz. vol. 179; p. 418.
Legrand, Paul A., Brussels, Belgium. Sinking, lining, and cementing shafts. No. 1,014,656; Jan. 16; Sp. p. 3493; Gaz. vol. 174; p. 599.
Legros, Lucien A. (See Grant and Legros.)
Lehberger, George F. (See Cavill and Lehberger.)
Lehberger, George F., Weirton, W. Va., and E. Vaughan, New Castle, Pa. Scaling device. No. 1,019,497; Mar. 5; Sp. p. 1138; Gaz. vol. 176; p. 167.
Lehman, George R., New York, N. Y. Non-refillable bottle. No. 1,039,969; Oct. 1; Gaz. vol. 183; p. 100.
Lehman, Joseph H., New York, N. Y. Switching device. No. 1,036,864; Aug. 27; Gaz. vol. 181; p. 938.
Lehmann, Christian G., Detroit, Mich. Incubator. No. 1,046,204; Dec. 3; Gaz. vol. 185; p. 139.
Lehmann, Emil, assignor to Enterprise Bed Company, Hammond, Ind. Folding chair. No. 1,033,108; July 23; Gaz. vol. 180; p. 898.
Lehmann, Firm of Ernst P. (See Sadtler, Wilhelm, assignor.)
Lehmann, Ernst P., Brandenburg-on-the-Havel, Germany. Toy wheel. No. 1,018,573; Feb. 27; Sp. p. 5238; Gaz. vol. 175; p. 910.
Lehmann, Ernst P., Brandenburg-on-the-Havel, Germany. Toy. No. 1,018,574; Feb. 27; Sp. p. 5239; Gaz. vol. 175; p. 911.
Lehmann, Ernst P., Brandenburg-on-the-Havel, Germany. Flash-light apparatus. No. 1,032,615; July 16; Gaz. vol. 180; p. 692.
Lehmann, Ernst P., Brandenburg-on-the-Havel, Germany. Suspending toys. No. 1,041,639; Oct. 15; Gaz. vol. 183; p. 727.
Lehmann, Friedrich H. E., Eilenburg, Germany. Treatment of skins and hides for the removal of fat, &c. No. 1,048,709; Dec. 31; Gaz. vol. 185; p. 1143.
Lehmann, Ludwig W. (See Böttcher and Lehmann.)
Lehne, Josef, Charlottenburg, assignor to Internationale Rotations-Maschinen-Gesellschaft m. b. H., Berlin, Germany. Rotary pump. No. 1,038,769; Sept. 17; Gaz. vol. 182; p. 608.
Lehne, Joseph, Charlottenburg, assignor to Internationale Rotations-Maschinen-Gesellschaft m. b. H., Berlin, Germany. Fluid transmission. No. 1,042,696; Oct. 29; Gaz. vol. 183; p. 1153.
Lehr, Charles E. (See Diefenderfer, Victor J., assignor.)
Lehr, Edwin, Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Alternating-current electromagnet. No. 1,015,968; Jan. 30; Sp. p. 6325; Gaz. vol. 174; p. 1100.
Lehr, Frank A., Harrisburg, Pa. Game-board. No. 1,023,742; Apr. 16; Sp. p. 4173; Gaz. vol. 177; p. 733.
Lehtonen, Matti, Duluth, Minn. Automatic fire-alarm. No. 1,035,365; Aug. 13; Gaz. vol. 181; p. 357.
Leibson, Israel B., New York, N. Y. Actuating device. No. 1,037,271; Sept. 3; Gaz. vol. 182; p. 31.
Leiby, Clark, Akron, Ohio. Combined support for shade-rollers and curtain-poles. No. 1,042,697; Oct. 29; Gaz. vol. 183; p. 1154.
Leich, Oscar M., assignor to Cracraft, Leich Electric Company, Genoa, Ill. Telephone system. No. 1,027,485; May 28; Sp. p. 5266; Gaz. vol. 178; p. 923.
Leich, Oscar M., and C. E. Hague, assignors to Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. System for measuring the capacity of electrical conductors. No. 1,035,204; Aug. 13; Gaz. vol. 181; p. 298.
Leichenger, Joseph D. (See Peebles, John C., assignor.)
Leichner, Siegfried, Grunewald, near Berlin, Germany. Luminous fountain. No. 1,018,431; Feb. 27; Sp. p. 4867; Gaz. vol. 175; p. 861.
Leidig, William, Newark, N. J. Fastening means for jewelry. No. 1,034,019; July 30; Gaz. vol. 180; p. 1233.
Leiger, George F., assignor to Chicago Octagon Rotary Engine Company, Chicago, Ill. Rotary engine. No. 1,023,321; Apr. 16; Sp. p. 3371; Gaz. vol. 177; p. 601.
Leiger, George F., assignor to Chicago Octagon Rotary Engine Company, Chicago, Ill. Rotary engine. No. 1,023,322; Apr. 16; Sp. p. 3373; Gaz. vol. 177; p. 602.
Leigh, Frederick J., assignor to Imperial Car Shipbuilding and Dry Dock Corporation, Seattle, Wash. Arm-rest for car-seats. No. 1,022,632; Apr. 9; Sp. p. 1857; Gaz. vol. 177; p. 325.
Leigh, John F., Reynolds, Ill. Copy-holder. No. 1,032,288; July 9; Gaz. vol. 180; p. 539.
Leigh, Lewis L., Bristol, Conn. Surface-indicator. No. 1,040,219; Oct. 1; Gaz. vol. 183; p. 183.
Leighton, Arthur M., Charlestown, assignor of one-half to G. E. Belcher, Stoughton, Mass. Two-part last. No. 1,025,197; May 7; Sp. p. 193; Gaz. vol. 178; p. 33.
Leighton, Frederick E., assignor of one-half to J. S. Wyman, Millbridge, Me. Car-door lock. No. 1,021,740; Mar. 26; Sp. p. 5782; Gaz. vol. 176; p. 1038.
Leighton, James A., Estherwood, La. Sanitary cistern. No. 1,022,371; Apr. 2; Sp. p. 1287; Gaz. vol. 177; p. 208.
Leighton, Richard B. H., Chattanooga, Tenn., and V. W. Zilen, Richmond Hill, N. Y. Car-coupling. No. 1,036,278; Aug. 20; Gaz. vol. 181; p. 707.
Leighton, Robert E., Kingston, N. Y. Stone crushing or pulverizing machine. No. 1,016,340; Feb. 6; Sp. p. 236; Gaz. vol. 175; p. 36.
Leik, Henry, Seattle, Wash. Ceiling attachment. No. 1,044,063; Nov. 12; Gaz. vol. 184; p. 388.
Leilich, Henry L. (See Warnick and Leilich.)
Leiner, Joshua H., New York, N. Y. Combined salt and pepper container. No. 1,035,884; Aug. 20; Gaz. vol. 181; p. 570.
Leinert, Charles H., Chicago, Ill. Apparatus for refrigerating and drying gases. No. 1,039,148; Sept. 24; Gaz. vol. 182; p. 751.
Leinert, Charles H., Chicago, Ill. Refrigerating and drying gases. No. 1,039,149; Sept. 24; Gaz. vol. 182; p. 751.
Leineweber, Charles C., Firth, Nebr. Grain-dividing attachment for harvesters. No. 1,025,753; May 7; Sp. p. 1424; Gaz. vol. 178; p. 223.
Leisch, Joseph, Tryon, N. C., assignor to The John Church Company, Cincinnati, Ohio. Power-pneumatic for player-pianos. No. 1,036,656; Aug. 27; Gaz. vol. 181; p. 869.
Leisel, Albert, Newark, N. J., assignor to E. I. du Pont de Nemours Powder Company, Wilmington, Del. Machine for doubling fabrics. No. 1,042,129; Oct. 22; Gaz. vol. 183; p. 930.
Leist-Wettler, Paul, Schönenwerd, Switzerland. Fastening device for casements and other hinged shutters. No. 1,013,501; Jan. 2; Sp. p. 899; Gaz. vol. 174; p. 143.
Leitch, Meredith, Springfield, Mass., assignor to F. J. Arend, New York, N. Y., and J. Bernstrom, Stockholm, Sweden. Mechanical movement for producing a differential speed between driving and driven members. No. 1,027,134; May 21; Sp. p. 4564; Gaz. vol. 178; p. 767.
Leiter, Aaron F., Dayton, Ohio. Mold for concrete construction. No. 1,047,254; Dec. 17; Gaz. vol. 185; p. 574.
Leith, George E., San Deigo, Cal. Punch. No. 1,016,752; Feb. 6; Sp. p. 1155; Gaz. vol. 175; p. 179.
Leith, George W. (See Whittaker and Leith.)
Leith, John F., Cleveland, Ohio. Runner attachment for vehicles. No. 1,024,792; Apr. 30; Sp. p. 6584; Gaz. vol. 177; p. 1158.
Leitner, Henry, Maybury, Woking, England. Automatic electric regulator. No. 1,040,704; Oct. 8; Gaz. vol. 183; p. 385.
Leitner, Henry, Maybury, Woking, and R. N. Lucas, Dartnell Park, Byfleet, England. Means for regulating electric circuits. No. 1,024,793; Apr. 30; Sp. p. 6585; Gaz. vol. 177; p. 1158.
Leland & Company, W. H. (See Gifford, Albert J., assignor.)
Leland, Elvin Y., Bar Harbor, Me. Propeller-shaft bearing. No. 1,035,205; Aug. 13; Gaz. vol. 181; p. 299.
Leland, Harry G., Howard Park, Md. Finger-exercising machine. No. 1,023,573; Apr. 16; Sp. p. 3871; Gaz. vol. 177; p. 681.

Alphabetical list of patentees—Continued.

Leland, John A., Montague, assignor to Millers Falls Company, Millers Falls, Mass. Telescopic extension-rod. No. 1,030,592; June 25; Sp. p. 5635; Gaz. vol. 179; p. 977.
Leland, Sanford D., Winchester, assignor to Manufacturing Equipment & Engineering Company, South Framingham, Mass. Locker. No. 1,033,711; July 23; Gaz. vol. 180; p. 1098.
Leluau, Charles, *et al.* (See Lord, Peter, assignor.)
Lemaignen, Robert B. A., Rouen, France. Speedometer. No. 1,025,070; Apr. 30; Sp. p. 7122; Gaz. vol. 177; p. 1251.
Lemarr, Francis M., Speedwell, Tenn. Plow. No. 1,013,667; Jan. 2; Sp. p. 1276; Gaz. vol. 174; p. 200.
Lemaster, Pleasant T., Spartanburg, S. C. Burner. No. 1,049,110; Dec. 31; Gaz. vol. 185; p. 1282.
Lemay, Joseph, New York, N. Y. Garment-clasp. No. 1,030,098; June 18; Sp. p. 4428; Gaz. vol. 179; p. 765.
Lemb, William, New York, assignor to John Lemb and Son, Incorporated, Brooklyn, N. Y. Boiler-furnace. No. 1,042,573; Oct. 29; Gaz. vol. 183; p. 1110.
Lembke, Frank T., Grand Forks, N. D. Dough-raiser. No. 1,039,551; Sept. 24; Gaz. vol. 182; p. 894.
Lemêtre, Auguste A., Paris, France. Electroplating with zinc. No. 1,017,981; Feb. 20; Sp. p. 3899; Gaz. vol. 175; p. 674.
Lemieux, George, Washburn, Wis. Sawmill-carriage. No. 1,038,609; Sept. 17; Gaz. vol. 182; p. 551.
Lemieux, Joseph F., New Bedford, Mass. Combined curtain and shade holder. No. 1,015,693; Jan. 23; Sp. p. 5751; Gaz. vol. 174; p. 980.
Lemmon, Norman E., Chicago, Ill. Snap-switch multiple fuse. No. 1,036,657; Aug. 27; Gaz. vol. 181; p. 870.
Lemmon, Robert, and R. P. Holmes, Boulder City, Western Australia, Australia. Automatic filter-press. No. 1,047,093; Dec. 10; Gaz. vol. 185; p. 486.
Lemon, Frederick C., Milwaukee, Wis. Current-collector for electric cranes. No. 1,014,071; Jan. 9; Sp. p. 2197; Gaz. vol. 174; p. 368.
Lemon, John T., Columbus, Ohio. System for softening water. No. 1,022,560; Apr. 9; Sp. p. 1700; Gaz. vol. 177; p. 300.
Lemp, Hermann, Lynn, Mass., assignor, by mesne assignments, to General Electric Company. Automatic regulator for steam-propelled vehicles. No. 1,015,042; Jan. 16; Sp. p. 4350; Gaz. vol. 174; p. 731.
Lemp, Hermann, Lynn, Mass., assignor, by mesne assignments, to General Electric Company. Regulating the production of steam. No. 1,015,043; Jan. 16; Sp. p. 4355; Gaz. vol. 174; p. 731.
Lemp, Hermann, Lynn, Mass., assignor to General Electric Company. Steering device for automobiles. No. 1,020,707; Mar. 19; Sp. p. 3629; Gaz. vol. 176; p. 638.
Lemp, Hermann, Lynn, Mass., assignor to General Electric Company. Feed-regulator for heating systems. No. 1,022,032; Apr. 2; Sp. p. 597; Gaz. vol. 177; p. 94.
Lemp, Hermann, Lynn, Mass., assignor, by mesne assignments, to General Electric Company. Regulator for kerosene-burners. No. 1,024,209; Apr. 23; Sp. p. 5261; Gaz. vol. 177; p. 922.
Lemp, Hermann, Lynn, Mass., assignor to General Electric Company. Fuel-supply system for explosive-engines. No. 1,025,814; May 7; Sp. p. 1546; Gaz. vol. 178; p. 244.
Lemp, Hermann, Lynn, Mass., assignor to General Electric Company. Supplying fuel and water to boilers. No. 1,041,640; Oct. 15; Gaz. vol. 183; p. 727.
Lempera, John I., Chicago, Ill. Metallic door. No. 1,021,053; Mar. 26; Sp. p. 4351; Gaz. vol. 176; p. 807.
Lenahan, Michael. (See Miller, Cornelius, assignor.)
Lenart, Jan, Whiting, Ind. Tie and rail-fastener. No. 1,030,899; July 2; Gaz. vol. 180; p. 17.
Lend, John, assignor, by mesne assignments, to S. C. McKnight, Chicago, Ill. Armored pneumatic tire. No. 1,039,063; Sept. 17; Gaz. vol. 182; p. 704.
Lender, Rudolf, and A. Koch, Neu-Babelsberg, Germany. Paint and varnish base. No. 1,019,666; Mar. 5; Sp. p. 1442; Gaz. vol. 176; p. 223.
Lendi, John H., assignor to Belden Manufacturing Company, Chicago, Ill. Insulating device. No. 1,033,912; July 30; Gaz. vol. 180; p. 1194.
Lengerke, Justus V., and A. von Beust, Orange, N. J. Multicoloring apparatus. No. 1,022,956; Apr. 9; Sp. p. 2578; Gaz. vol. 177; p. 438.
Lengyel, Geza, Ledford, Ill. Cuspidor. No. 1,015,694; Jan. 23; Sp. p. 5752; Gaz. vol. 174; p. 980.
Lenhart, Charles H., Plymouth, Wis. Furniture-joint. No. 1,035,611; Aug. 13; Gaz. vol. 181; p. 440.
Lenhart Mfg. Co. (See Lenhart, William K., assignor.)
Lenhart, William K., Philadelphia, Pa., assignor to Lenhart Mfg. Co., Inc. Lamp or illuminator for autos and other vehicles. No. 1,024,210; Apr. 23; Sp. p. 5266; Gaz. vol. 177; p. 923.
Lennon, William, Manitou, Colo. Trough or open flume. No. 1,026,957; May 21; Sp. p. 4148; Gaz. vol. 178; p. 707.
Lennon, William, Manitou, Colo. Trough or open flume. No. 1,042,239; Oct. 22; Gaz. vol. 183; p. 967.
Lennox, Fred. (See Creely, William, assignor.)
Lennox, Talbot, Chicago, Ill. Shearing-machine. No. 1,020,508; Mar. 19; Sp. p. 3175; Gaz. vol. 176; p. 570.
Lennox, Talbot, assignor to M. F. Holmes, deceased, Chicago, Ill.; L. H. Holmes, executrix. Railway-crossing. No. 1,043,443; Nov. 5; Gaz. vol. 184; p. 141.
Lennox, William C., Pittsburgh, Pa. Wrench. No. 1,046,312; Dec. 3; Gaz. vol. 185; p. 180.
Lentz, Hugo, Mannheim, Germany. Rotary engine. No. 1,043,945; Nov. 12; Gaz. vol. 184; p. 347.
Lentz, Philipp, Gross-Lichterfelde, near Berlin, Germany. Swimming apparatus. No. 1,027,741; May 28; Sp. p. 5785; Gaz. vol. 178; p. 1008.
Lenz, Albert E., Perth Amboy, N. J. Toy. No. 1,020,613; Mar. 19; Sp. p. 3421; Gaz. vol. 176; p. 605.
Lenz, Jacob, Hibbing, Minn. Lathe-dog. No. 1,035,979; Aug. 20; Gaz. vol. 181; p. 601.
Lenz, Rudolph O., Chicago, Ill., assignor to Illinois Vending Company. Coin-controlled vending-machine. No. 1,039,970; Oct. 1; Gaz. vol. 183; p. 100.
Lenzi, Paul. (See Courson, Cornelius F., assignor.)
Leonard, Arthur G. (See Holmberg, Per, assignor.)
Leonard, Bernie E., Odebolt, Iowa. Folding coat-hanger. No. 1,047,094; Dec. 10; Gaz. vol. 185; p. 486.
Leonard, Charles M., Hilton, N. Y. Pruning-saw. No. 1,028,230; June 4; Sp. p. 375; Gaz. vol. 179; p. 53.
Leonard, Charles R., New Rochelle, N. Y. Garment. No. 1,022,095; Apr. 2; Sp. p. 728; Gaz. vol. 177; p. 116.
Leonard, Charles S., New Orleans, La. Shredding-machine. No. 1,042,932; Oct. 29; Gaz. vol. 183; p. 1234.
Leonard, Elof R., Woodcliff, N. J. Metal window-frame. No. 1,038,160; Sept. 10; Gaz. vol. 182; p. 363.
Leonard, Frank W., Mountain View, Okla. Revolving cultivator. No. 1,018,717; Feb. 27; Sp. p. 5532; Gaz. vol. 175; p. 958.
Leonard, Fred R. (See Leonard, William J. and F. R.)
Leonard, George I. (See Cutler and Leonard.)
Leonard, George I., and W. C. Cutler, Los Angeles, assignors to I. M. Cutler, Sawtelle, Cal. Key-operated directory. No. 1,024,211; Apr. 23; Sp. p. 5267; Gaz. vol. 177; p. 923.
Leonard, George I., and W. C. Cutler, Los Angeles, assignors to I. M. Cutler, Sawtelle, Cal. Platform-operated machine. No. 1,026,325; May 14; Sp. p. 2725; Gaz. vol. 178; p. 456.
Leonard, Harry C., assignor to Grand Rapids Refrigerator Company, Grand Rapids, Mich. Trap for drain-pipes. No. 1,035,366; Aug. 13; Gaz. vol. 181; p. 357.
Leonard, Harry W., Bronxville, N. Y. Electric-railway system. No. 1,029,698; June 18; Sp. p. 3534; Gaz. vol. 179; p. 626.
Leonard, Harry W., Bronxville, N. Y. Electric controlling device. No. 1,042,130; Oct. 22; Gaz. vol. 183; p. 931.
Leonard, Harry W., Bronxville, N. Y. Electrically-propelled vehicles. No. 1,042,698; Oct. 29; Gaz. vol. 183; p. 1154.
Leonard, Harry W., Bronxville, N. Y. Means for control of electric energy. No. 1,043,777; Nov. 5; Gaz. vol. 184; p. 256.
Leonard, Harry W., Bronxville, N. Y. Electric control system. No. 1,043,778; Nov. 5; Gaz. vol. 184; p. 257.
Leonard, Harry W., Bronxville, N. Y. Effort-transmitting frictional device. No. 1,044,894; Nov. 19; Gaz. vol. 184; p. 705.
Leonard, Henry R., Wayne, Pa. Making hollow reinforced-concrete ties. No. 1,039,552; Sept. 24; Gaz. vol. 182; p. 894.
Leonard, Henry R., Wayne, Pa. Hollow reinforced-concrete tie. No. 1,045,711; Nov. 26; Gaz. vol. 184; p. 1021.
Leonard, Hosea D., near Albertville, Ala. Cultivator. No. 1,043,779; Nov. 5; Gaz. vol. 184; p. 257.
Leonard, James, and N. J. Smith, assignors of one-third to A. Horat, Waterloo, Iowa. Music-leaf turner. No. 1,017,157; Feb. 13; Sp. p. 2065; Gaz. vol. 175; p. 355.
Leonard, John M., Marquette, Mich. Switch-throwing mechanism. No. 1,015,044; Jan. 16; Sp. p. 4359; Gaz. vol. 174; p. 731.
Leonard, John W., and H. E. Brown, Washington, Pa. Attachment for oil-well apparatus. No. 1,031,562; July 2; Gaz. vol. 180; p. 247.
Leonard, Marshal L., assignor of one-sixth to G. W. Stephens and one-sixth to W. C. Blanchard, Nida, Okla. Rail-joint. No. 1,038,908; Sept. 17; Gaz. vol. 182; p. 656.
Leonard, Wilber W., Hinckley, Minn. Pipe-wrench. No. 1,026,270; May 14; Sp. p. 2598; Gaz. vol. 178; p. 435.
Leonard, William J. and F. R., Chester, Nebr. Theater-chair. No. 1,041,108; Oct. 15; Gaz. vol. 183; p. 552.
Leone, Pascal, New York, N. Y. Automatic clutch. No. 1,028,750; June 4; Sp. p. 1475; Gaz. vol. 179; p. 228.
Leopold, George O. (See Fegley and Leopold.)
Leopold, George O., assignor to North Bro's. M'f'g. Co., Philadelphia, Pa. Gearing. No. 1,015,235; Jan. 16; Sp. p. 4719; Gaz. vol. 174; p. 795.
Leopold, George O., assignor to North Bro's M'f'g Co., Philadelphia, Pa. Gearing. No. 1,021,538; Mar. 26; Sp. p. 5402; Gaz. vol. 176; p. 973.
Leopold, George O., assignor to North Bro's. M'f'g Co., Philadelphia, Pa. Gearing. No. 1,023,023; Apr. 9; Sp. p. 2698; Gaz. vol. 177; p. 461.

Alphabetical list of patentees—Continued.

Leopold, George O., assignor to North Bro's M'f'g Co., Philadelphia, Pa. Ratchet mechanism. No. 1,027,261; May 21; Sp. p. 4805; Gaz. vol. 178; p. 810.
Leopold, George O., assignor to North Bro's. M'f'g Co., Philadelphia, Pa. Chain-drill. No. 1,033,712; July 23; Gaz. vol. 180; p. 1098.
Leopold, George O., assignor to North Bro's M'f'g Co., Philadelphia, Pa. Chain-drill. No. 1,034,258; July 30; Gaz. vol. 180; p. 1316.
Leopold, Joseph, assignor of one-half to S. Lancsar, South Bethlehem, Pa. Screw-propeller. No. 1,019,498; Mar. 5; Sp. p. 1140; Gaz. vol. 176; p. 167.
Lepage, Philibert J. A., Paris, France. Timing apparatus for billiards and like games. No. 1,022,633; Apr. 9; Sp. p. 1858; Gaz. vol. 177; p. 325.
Lepel, Egbert von, Berlin, Germany. Apparatus for producing rapid electric oscillations. No. 1,043,117; Nov. 5; Gaz. vol. 184; p. 24.
Lepersonne, Max. (See Barbanson and Lepersonne.)
Lephart, Frederick N., Ansonia, Ohio. Fender. No. 1,023,083; Apr. 9; Sp. p. 2828; Gaz. vol. 177; p. 481.
Lepley, Daniel F., Connellsville, Pa. Coke-discharging apparatus. No. 1,025,815; May 7; Sp. p. 1548; Gaz. vol. 178; p. 245.
Lepley, Daniel F., Connellsville, Pa. Coke-conveyer. No. 1,033,713; July 23; Gaz. vol. 180; p. 1099.
Leporin, Henry F., New York, N. Y. Breast-supporting corset. No. 1,026,326; May 14; Sp. p. 2727; Gaz. vol. 178; p. 456.
Leppenat, Gustave. (See Meyer and Leppenat.)
Lepper, John G., and W. W. Manville, assignors to The Manville Brothers Company, Waterbury, Conn. Wire-feeding mechanism. No. 1,014,829; Jan. 16; Sp. p. 3880; Gaz. vol. 174; p. 658.
Lepper, John J., Milwaukee, Wis. Advertising device. No. 1,029,618; June 18; Sp. p. 3361; Gaz. vol. 179; p. 598.
Leppert, Dorrence W., New York, N. Y. Telephone attachment. No. 1,042,933; Oct. 29; Gaz. vol. 183; p. 1234.
Leppert, Henry E., New Britain, assignor to The Hart Manufacturing Company, Hartford, Conn. Interlocking mechanism. No. 1,040,705; Oct. 8; Gaz. vol. 183; p. 385.
Lerch, Otto. (See Black, Ferdinand, assignor.)
Lerio, Louis. (See Daly and Lerio.)
Lernet, Alexander, Vienna, Austria-Hungary. Floating mine. No. 1,042,574; Oct. 29; Gaz. vol. 183; p. 1110.
Lero, Joe, Dallas, Tex. Target-controlled roundabout. No. 1,019,972; Mar. 12; Sp. p. 2060; Gaz. vol. 176; p. 355.
Leschbrandt, Einar, Philadelphia, Pa. Player-piano or similar instrument. No. 1,017,158; Feb. 13; Sp. p. 2067; Gaz. vol. 175; p. 355.
Lesher, George M., Newark, N. J. Centrifugal separator. No. 1,026,271; May 14; Sp. p. 2599; Gaz. vol. 178; p. 436.
Leslie, Albert S., Logan, W. Va. Stem winding and setting mechanism for watches. No. 1,032,289; July 9; Gaz. vol. 180; p. 539.
Leslie, Jay, Spring Valley, Minn. Ventilating device. No. 1,031,456; July 2; Gaz. vol. 180; p. 211.
Leslie, Ralph A., Merrimac, Mass. Flexible sled. No. 1,031,277; July 2; Gaz. vol. 180; p. 151.
Leslie, Sylvester F., Newcastle, New South Wales, Australia. Coupling device. No. 1,027,861; May 28; Sp. p. 6089; Gaz. vol. 178; p. 1049.
Lesmüller, August, Munich, assignor to L. Weiss, Barmen-Rittershausen, Germany. Production of pyrophorous substances for ignition and illumination. No. 1,023,208; Apr. 16; Sp. p. 3147; Gaz. vol. 177; p. 563.
Lesperance, Alexander, Laconia, N. H. Paper-holder. No. 1,021,154; Mar. 26; Sp. p. 4559; Gaz. vol. 176; p. 838.
Lesquerre, Juan B., Buenos Aires, Argentina. Ox-collar. No. 1,025,409; May 7; Sp. p. 666; Gaz. vol. 178; p. 105.
Lesselbaum, Rubin, New York, N. Y. Legging. No. 1,019,810; Mar. 12; Sp. p. 1726; Gaz. vol. 176; p. 302.
Lessig, George, Reading, Pa. Railway-tie. No. 1,027,661; May 28; Sp. p. 5624; Gaz. vol. 178; p. 982.
Lessing, John F., St. Joseph, Mich. Folding blind. No. 1,037,938; Sept. 10; Gaz. vol. 182; p. 289.
Lester, George W., Bangor, England. Safety appliance for pit cages, lifts, and the like. No. 1,043,323; Nov. 5; Gaz. vol. 184; p. 100.
Lester, Howard W., assignor to The Post & Lester Company, Hartford, Conn. Bulb. No. 1,025,986; May 14; Sp. p. 1949; Gaz. vol. 178; p. 337.
Lettré, Philip H., Attleboro Falls, Mass. Snap-bracelet. No. 1,020,148; Mar. 12; Sp. p. 2423; Gaz. vol. 176; p. 414.
Lettrophones Limited. (See Mikorey, Hans, assignor.)
Leubner, Carl W., McGregor, Tex. Cotton-chopper. No. 1,024,346; Apr. 23; Sp. p. 5518; Gaz. vol. 177; p. 967.
Leuchsenring, Konrad. (See Ott and Leuchsenring.)
Leuchter, August, New York, N. Y. Electrodeposition of metals. No. 1,026,627; May 14; Sp. p. 3368; Gaz. vol. 178; p. 555.
Leuchter, August, New York, N. Y. Electroplating. No. 1,026,628; May 14; Sp. p. 3370; Gaz. vol. 178; p. 555.
Leukart, Jacob, Columbus, Ohio. Mortising-machine. No. 1,037,939; Sept. 10; Gaz. vol. 182; p. 289.
Leumann, Richard, Monthey, Switzerland. Permeability-measuring apparatus. No. 1,016,753; Feb. 6; Sp. p. 1157; Gaz. vol. 175; p. 179.
Leuschner, Andreas W., Dresden-Alt, Germany, assignor to C. H. Weber, New York, N. Y. Production of aerated baths. No. 1,034,919; Aug. 6; Gaz. vol. 181; p. 173.
Leuthesser, Fred W., Chicago, Ill. Steam, air, and water trap valve. No. 1,031,653; July 2; Gaz. vol. 180; p. 279.
Leuthesser, Fred W., Chicago, Ill. Steam, air, and water trap valve. No. 1,037,157; Aug. 27; Gaz. vol. 181; p. 1035.
Leuthesser, Fred W., Chicago, Ill. Steam, air, and water trap valve. No. 1,042,011; Oct. 22; Gaz. vol. 183; p. 892.
Leuthesser, Fred W., Chicago, Ill. Air-valve for radiators. No. 1,042,012; Oct. 22; Gaz. vol. 183; p. 892.
Leuthesser, Fred W., Chicago, Ill. Air-valve for radiators. No. 1,049,243; Dec. 31; Gaz. vol. 185; p. 1325.
Leuthner, Frank J., *et al.*, executors. (See Leuthner, Frank X.)
Leuthner, Frank J., *et al.*, executors. (See Leuthner and Tickner.)
Leuthner, Frank X., deceased, (F. J. Leuthner and M. L. Taylor, executors,) Buffalo, N. Y., assignor of one-half to F. Tickner, Sharpsville, Pa. Molding apparatus. No. 1,018,668; Feb. 27; Sp. p. 5430; Gaz. vol. 175; p. 941.
Leuthner, Frank X., deceased, (F. J. Leuthner and M. L. Taylor, executors,) Buffalo, N. Y., and F. Tickner, Sharpsville, Pa. Molding apparatus. No. 1,018,669; Feb. 27; Sp. p. 5432; Gaz. vol. 175; p. 942.
Leutze, Trevor C., Morton, Pa. Hair-pin. No. 1,039,762; Oct. 1; Gaz. vol. 183; p. 31.
Lev, Frank W., New York, N. Y. Feeding mechanism. No. 1,025,282; May 7; Sp. p. 379; Gaz. vol. 178; p. 61.
Lev, Frank W., assignor to International Packing Machine Company, New York, N. Y. Packaging-machine. No. 1,030,517; June 25; Sp. p. 5398; Gaz. vol. 179; p. 950.
Lev, Frank W., assignor to International Packing Machine Company, New York, N. Y. Packaging-machine. No. 1,042,013; Oct. 22; Gaz. vol. 183; p. 893.
Levahn Motor Co. (See Gjerde, Gullik K., assignor.)
Levalley, Christopher W., Milwaukee, Wis. Concrete-mixing apparatus. No. 1,026,958; May 21; Sp. p. 4150; Gaz. vol. 178; p. 708.
Levalley, Christopher W., Milwaukee, Wis. Concrete-mixer. No. 1,027,055; May 21; Sp. p. 4368; Gaz. vol. 178; p. 741.
Levalley, Christopher W., Milwaukee, Wis. Conveyer. No. 1,028,751; June 4; Sp. p. 1478; Gaz. vol. 179; p. 228.
Levalley, Christopher W., Milwaukee, Wis. Blacking-box. No. 1,031,350; July 2; Gaz. vol. 180; p. 176.
Levan, George W., Philadelphia, Pa. Heel-cushion. No. 1,029,019; June 11; Sp. p. 2073; Gaz. vol. 179; p. 356.
Lévay, Ellis, Ennis, Tex. Milking device. No. 1,024,903; Apr. 30; Sp. p. 6804; Gaz. vol. 177; p. 1196.
Levedahl, Axel, assignor to Aurora Automatic Machinery Company, Aurora, Ill. Means for advancing or retarding a magneto-shaft relative to a motor-shaft. No. 1,027,056; May 21; Sp. p. 4370; Gaz. vol. 178; p. 741.
Levedahl, Axel, assignor to Aurora Automatic Machinery Company, Aurora, Ill. Force-feed oiler. No. 1,028,471; June 4; Sp. p. 897; Gaz. vol. 179; p. 135.
Levedahl, Axel, assignor to Aurora Automatic Machinery Company, Aurora, Ill. Force-feed oiler. No. 1,029,547; June 11; Sp. p. 3199; Gaz. vol. 179; p. 536.
Leveen, Joseph, and M. L. Ashbaugh, Anderson, Ind. Electric cigar-lighter. No. 1,039,553; Sept. 24; Gaz. vol. 182; p. 895.
Leveque, Bernard T., assignor to The Reece Button Hole Machine Company, Boston, Mass. Buttonhole and button location marking machine. No. 1,014,657; Jan. 16; Sp. p. 3494; Gaz. vol. 174; p. 599.
Leveque, Bernard T., assignor to The Reece Button Hole Machine Company, Boston, Mass. Buttonhole-sewing machine. No. 1,019,667; Mar. 5; Sp. p. 1443; Gaz. vol. 176; p. 223.
Leveque, Cyrille, Montreal, Quebec, Canada. Eyeglasses. No. 1,026,272; May 14; Sp. p. 2602; Gaz. vol. 178; p. 436.
Levering, William A., assignor to The Standard Asphalt and Rubber Company, Chicago, Ill. Sealing and protecting perishable products. No. 1,024,638; Apr. 30; Sp. p. 6264; Gaz. vol. 177; p. 1103.
Levering, Wilson K., Baltimore, Md. Core-box. No. 1,028,367; June 4; Sp. p. 668; Gaz. vol. 179; p. 100.
Levey, Thomas J., Baltimore, Md. Bottle-capping machine. No. 1,027,262; May 21; Sp. p. 4806; Gaz. vol. 178; p. 811.
Levi, Norman R., New Kensington, Pa. Roach-exterminator. No. 1,022,096; Apr. 2; Sp. p. 729; Gaz. vol. 177; p. 116.
Levien, Louis, New York, N. Y., and C. B. Duncan, Neshanic Station, N. J.; said Duncan assignor to said Levien. Apparatus for fire-polishing glassware. No. 1,038,909; Sept. 17; Gaz. vol. 182; p. 656.
Levillain, John H., Loring, La. Scale attachment for vehicles. No. 1,024,639; Apr. 30; Sp. p. 6265; Gaz. vol. 177; p. 1103.
Levin, Edward, New York, N. Y. Skirt-marker. No. 1,035,453; Aug. 13; Gaz. vol. 181; p. 387.

Alphabetical list of patentees—Continued.

Levin, Edward, New York, N. Y. Waist-form. No. 1,036,865; Aug. 27; Gaz. vol. 181; p. 938.
Levin, Frédéric, Rorschach, Switzerland. Device for slitting screw-heads. No. 1,035,612; Aug. 13; Gaz. vol. 181; p. 440.
Levin, Isaac, New York, N. Y. Garment-form. No. 1,039,763; Oct. 1; Gaz. vol. 183; p. 32.
Levin, Isaac, New York, N. Y. Collapsible garment-form. No. 1,039,764; Oct. 1; Gaz. vol. 183; p. 32.
Levin, Lewis, New Castle, Pa. Operating mechanism for shoe-polishing machines. No. 1,030,001; June 18; Sp. p. 4208; Gaz. vol. 179; p. 730.
Levin, Nils D., assignor to Goodman Manufacturing Company, Chicago, Ill. Rack-rail. No. 1,042,452; Oct. 29; Gaz. vol. 183; p. 1067.
Levin, Nils D., Columbus, Ohio, assignor to The Jeffrey Manufacturing Company. Switch and connecting device for electric conductors. No. 1,045,572; Nov. 26; Gaz. vol. 184; p. 971.
Levine, Charles W., Rockford, Ill. Grain-shocker. No. 1,033,023; July 16; Gaz. vol. 180; p. 830.
Levings, William S., Minneapolis, Minn. Lamp. No. 1,038,161; Sept. 10; Gaz. vol. 182; p. 363.
Levins, Grace L., administratrix. (See Levins, Peter.)
Levins, Peter, deceased, San Francisco, Cal.; G. L. Levins, administratrix. Aeroplane flying-machine. No. 1,043,781; Nov. 5; Gaz. vol. 184; p. 258.
Levinstein, Herbert, and M. Wyler, assignors to Levinstein Limited, Blackley, Manchester, England. Manufacture of azo dyestuffs. No. 1,024,794; Apr. 30; Sp. p. 6590; Gaz. vol. 177; p. 1159.
Levinstein Limited. (See Levinstein and Wyler, assignors.)
Levison, Harry, San Francisco, Cal. Machine for treating printed matter. No. 1,043,324; Nov. 5; Gaz. vol. 184; p. 100.
Levison, Maurice, assignor of six-tenths to W. P. Crockett, Chicago, Ill. Signal device. No. 1,048,978; Dec. 31; Gaz. vol. 185; p. 1235.
Levitin, Abe. (See Parker, George, assignor.)
Levy, Abram S., San Francisco, Cal. Combined mattress and float. No. 1,047,820; Dec. 17; Gaz. vol. 185; p. 775.
Lévy, Arthur, Paris, France. Folding opera-glass. No. 1,024,730; Apr. 30; Sp. p. 6443; Gaz. vol. 177; p. 1136.
Levy, Benjamin F. (See Lapointe and Levy.)
Levy, Charles, assignor to Bickford & Sweet, Worcester, Mass. Slipper-sole. No. 1,023,158; Apr. 16; Sp. p. 3040; Gaz. vol. 177; p. 545.
Levy, Harry, Boston, Mass. Fish-line releaser. No. 1,044,792; Nov. 19; Gaz. vol. 184; p. 671.
Levy, Firm of Henri. (See Tscherne, Alois, assignor.)
Levy, Henry. (See Tscherne, Alois, assignor.)
Levy, Howard S., Philadelphia, Pa. Producing electrotypes. No. 1,017,776; Feb. 20; Sp. p. 3414; Gaz. vol. 175; p. 601.
Levy, Howard S., Philadelphia, Pa. Etching-machine. No. 1,042,699; Oct. 29; Gaz. vol. 183; p. 1154.
Levy, Howard S., and G. H. Brandes, Philadelphia, Pa. Positive-pressure blower. No. 1,019,499; Mar. 5; Sp. p. 1142; Gaz. vol. 176; p. 167.
Levy, Isadore J., New York, N. Y. Hand-bag. No. 1,042,934; Oct. 29; Gaz. vol. 183; p. 1235.
Levy, Israel N., New York, N. Y. Collar and hood. No. 1,020,360; Mar. 12; Sp. p. 2853; Gaz. vol. 176; p. 483.
Levy, John, assignor of one-half to S. G. Movsovitz, Providence, R. I. Portable water-heater for bath-tubs. No. 1,045,416; Nov. 26; Gaz. vol. 184; p. 915.
Levy-Maurice, Jules, and R. F. A. Poyart, Paris, France. Stretcher. No. 1,016,835; Feb. 6; Sp. p. 1332; Gaz. vol. 175; p. 205.
Levy, Samuel S., Boston, Mass. Sectional wall construction. No. 1,023,946; Apr. 23; Sp. p. 4675; Gaz. vol 177; p. 830.
Levy, Solomon J., San Francisco, Cal. Low-hung motor-truck. No. 1,038,162; Sept. 10; Gaz. vol. 182; p. 363.
Levy, William W., *et al.* (See Ehinger, Frank, assignor.)
Levzow, Hans. (See Gradenwitz, Vollbrecht, and Levzow.)
Lewandowski, Leon, Cleveland, Ohio. Window-operator. No. 1,036,658; Aug. 27; Gaz. vol. 181; p. 870.
Lewandowski, Leon, assignor of one-third to N. Radzyminski, Cleveland, Ohio. Combined curtain pole and roller fixture. No. 1,024,488; Apr. 23; Sp. p. 5848; Gaz. vol. 177; p. 1017.
Lewellyn, Frederick E. (See Simmons, Jesse C., assignor.)
Lewen, Henry L., New York, N. Y. Floor and ceiling construction. No. 1,014,157; Jan. 9; Sp. p. 2370; Gaz. vol. 174; p. 396.
Lewen, Henry L., assignor to International Corporation of Modern Improvements, New York, N. Y. Fireproof building construction. No. 1,035,206; Aug. 13; Gaz. vol. 181; p. 299.
Lewis, Albert L., Coalinga, Cal. Hub. No. 1,045,712; Nov. 26; Gaz. vol. 184; p. 1022.
Lewis, Alfred. (See Williams and Lewis.)
Lewis, Arthur J., Waterbury, assignor to The Baird Machine Company, Oakville, Conn. Transfer attachment and stop-motion for presses. No. 1,031,351; July 2; Gaz. vol. 180; p. 177.
Lewis, Benjamin F. and J. W., Hartland, Kans. Pusher attachment for hay-rakes. No. 1,038,163; Sept. 10; Gaz. vol. 182; p. 364.
Lewis, Charles A., Denver, Colo. Electric search-light for automobiles. No. 1,022,634; Apr. 9; Sp. p. 1860; Gaz. vol. 177; p. 325.
Lewis, Clifford A., Portland, Oreg. Light attachment for firearms. No. 1,045,800; Nov. 26; Gaz. vol. 184; p. 1050.
Lewis, Corrie C., Portland, Me. Hub-wrench. No. 1,039,765; Oct. 1; Gaz. vol. 183; p. 32.
Lewis, Cyrus, Sr., Lorain, Ohio. Riffling-machine. No. 1,017,569; Feb. 13; Sp. p. 2935; Gaz. vol. 175; p. 496.
Lewis, David T., Amherst, Nova Scotia, Canada. Emergency-rudder. No. 1,040,363; Oct. 8; Gaz. vol. 183; p. 262.
Lewis, Edward D., assignor to Heater-Muffler Co., Elmira, N. Y. Muffler. No. 1,024,688; Apr. 30; Sp. p. 6363; Gaz. vol. 177; p. 1121.
Lewis, Edward Z., Chicago, Ill. Multiform billing-sheet. No. 1,017,298; Feb. 13; Sp. p. 2365; Gaz. vol. 175; p. 403.
Lewis, Edward Z., Chicago, Ill. Attachment for typewriting machines. No. 1,017,299; Feb. 13; Sp. p. 2367; Gaz. vol. 175; p. 403.
Lewis, Edward Z., Chicago, Ill., assignor to The General Manifold and Printing Company, Franklin, Pa. Manifolding salesman's check. No. 1,024,731; Apr. 30; Sp. p. 6444; Gaz. vol. 177; p. 1136.
Lewis, Edward Z., Chicago, Ill., assignor to The General Manifold and Printing Company, Franklin, Pa. Manifolding salesman's check. No. 1,039,766; Oct. 1; Gaz. vol. 183; p. 33.
Lewis, Elias, and G. Broadhurst, Terre Haute, Ind. Horseshoe. No. 1,032,552; July 16; Gaz. vol. 180; p. 672.
Lewis, Elmer M. (See Cummings, George, assignor.)
Lewis Foundry & Machine Company. (See Wackermann and Zabel, assignors.)
Lewis, Francis X. (See Héroux, Edmond, assignor.)
Lewis, Frank D., Elizabeth, assignor, by mesne assignments, to Thomas A. Edison, Incorporated, West Orange, N. J. Phonograph. No. 1,036,279; Aug. 20; Gaz. vol. 181; p. 708.
Lewis, Frank R., Capitola, Cal. Pistol-holster hanger. No. 1,045,713; Nov. 26; Gaz. vol. 184; p. 1022.
Lewis, Frank W., McLeod, Mont. Amalgamator. No. 1,034,259; July 30; Gaz. vol. 180; p. 1316.
Lewis, George S., assignor to J. Stevens Arms & Tool Co., Chicopee Falls, Mass. Apparatus for stacking envelops, &c. No. 1,019,059; Mar. 5; Sp. p. 98; Gaz. vol. 176; p. 19.
Lewis, George S., assignor to J. Stevens Arms & Tool Company, Chicopee Falls, Mass. Repeating firearm. No. 1,021,987; Apr. 2; Sp. p. 504; Gaz. vol. 177; p. 80.
Lewis, George S., assignor to J. Stevens Arms & Tool Company, Chicopee Falls, Mass. Firearm. No. 1,021,988; Apr. 2; Sp. p. 509; Gaz. vol. 177; p. 81.
Lewis, George S., assignor to J. Stevens Arms & Tool Company, Chicopee Falls, Mass. Magazine-gun. No. 1,041,109; Oct. 15; Gaz. vol. 183; p. 552.
Lewis, George S., assignor to J. Stevens Arms & Tool Company, Chicopee Falls, Mass. Machine for sealing envelops. No. 1,046,472; Dec. 10; Gaz. vol. 185; p. 273.
Lewis, George T., St. Louis, Mo. Safe. No. 1,037,940; Sept. 10; Gaz. vol. 182; p. 290.
Lewis, Goodrich Q., Wheaton, assignor to W. H. Miner, Chicago, Ill. Draft-rigging for railway-cars. No. 1,041,110; Oct. 15; Gaz. vol. 183; p. 552.
Lewis, Goodrich Q., Wheaton, assignor to W. H. Miner, Chicago, Ill. Draft-rigging. No. 1,048,710; Dec. 31; Gaz. vol. 185; p. 1144.
Lewis, Harry A., Chicago, Ill. Attachment for vehicle-lamps. No. 1,028,231; June 4; Sp. p. 376; Gaz. vol. 179; p. 53.
Lewis, Isaac N., U. S. Army. Internal-combustion power apparatus. No. 1,035,454; Aug. 13; Gaz. vol. 181; p. 387.
Lewis, Jackson G., New Windsor, Colo. Adjustable and collapsible shingling-stool. No. 1,026,097; May 14; Sp. p. 2231; Gaz. vol. 178; p. 376.
Lewis, James F., Uniontown, Pa. Combined square and leveling device. No. 1,019,668; Mar. 5; Sp. p. 1448; Gaz. vol. 176; p. 223.
Lewis, James S., McKeesport, and W. H. Powell, Ford City, assignors to H. R. Gault, Kittanning, Pa. Apparatus for the manufacture of tubes. No. 1,018,670; Feb. 27; Sp. p. 5435; Gaz. vol. 175; p. 942.
Lewis, Jasper E., Philadelphia, Pa., assignor of one-third to W. B. Matthews, Washington, D. C. Coin-controlled circuit-closing apparatus. No. 1,028,232; June 4; Sp. p. 377; Gaz. vol. 179; p. 53.
Lewis, Jesse T. (See Lewis, Thomas and J. T.)
Lewis, John D., Harrisburg, Pa. Cross-head for locomotives. No. 1,040,220; Oct. 1; Gaz. vol. 183; p. 184.
Lewis, John F., Braddock, Pa. Rail-fastening. No. 1,013,408; Jan. 2; Sp. p. 699; Gaz. vol. 174; p. 111.
Lewis, John F., Philadelphia, Pa. Automatic grease-cup. No. 1,015,626; Jan. 23; Sp. p. 5589; Gaz. vol. 174; p. 958.

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Lewis, John F., Philadelphia, Pa. Shaping hollow metal articles. No. 1,016,507; Feb. 6; Sp. p. 622; Gaz. vol. 175; p. 95.
Lewis, John W. (See Lewis, Benjamin F. and J. W.)
Lewis, Lloyd V., Edgewood, and J. S. Holliday, Wilkinsburg, assignors to The Union Switch & Signal Company, Swissvale, Pa. Railway signaling system. No. 1,016,922; Feb. 6; Sp. p. 1522; Gaz. vol. 175; p. 236.
Lewis, Louie T., Fletcher, Okla. Reinforced-concrete railway-tie. No. 1,027,263; May 21; Sp. p. 4810; Gaz. vol. 178; p. 811.
Lewis, Lyman S., assignor of one-half to H. B. Fitz-Jerrell, Elkport, Iowa. Plow. No. 1,018,120; Feb. 20; Sp. p. 4205; Gaz. vol. 175; p. 723.
Lewis, McComas, assignor of one-half to Byrnes, Townsend & Brickenstein, Washington, D. C. Box. No. 1,044,400; Nov. 12; Gaz. vol. 184; p. 503.
Lewis, Milton E., Oakland, Cal. Automatic phonograph-stop. No. 1,019,669; Mar. 5; Sp. p. 1449; Gaz. vol. 176; p. 223.
Lewis, Pearl A., and H. N. Faas, assignors to The American Seeding Machine Company, Springfield, Ohio. Fertilizer-distributer. No. 1,032,553; July 16; Gaz. vol. 180; p. 672.
Lewis, Philip A., Lowville, N. Y. Trousers. No. 1,033,714; July 23; Gaz. vol. 180; p. 1099.
Lewis, Robert B., assignor to National Metal Edge Box Company, Philadelphia, Pa. Holder for gramophone-records. No. 1,044,200; Nov. 12; Gaz. vol. 184; p. 435.
Lewis, Rudolph, and J. Straka, Kansas City, Mo. Pencil-holder. No. 1,037,646; Sept. 3; Gaz. vol. 182; p. 158.
Lewis, Samuel W., New York, N. Y. Flushing-valve. No. 1,014,072; Jan. 9; Sp. p. 2199; Gaz. vol. 174; p. 368.
Lewis, Saunders, Jr., Philadelphia, Pa. Farriery implement. No. 1,016,571; Feb. 6; Sp. p. 788; Gaz. vol. 175; p. 117.
Lewis Schneider & Co. *et al.* (See Carels, Gustave, assignor.)
Lewis Spring & Axle Company, The. (See O'Brien, Frank, assignor.)
Lewis, Thomas, Scranton, Pa. Attachment for spinning-spindles. No. 1,024,942; Apr. 30; Sp. p. 6891; Gaz. vol. 177; p. 1210.
Lewis, Thomas and J. T., Smithfield, Pa. Combined quilting-frame and curtain-stretcher. No. 1,020,295; Mar. 12; Sp. p. 2736; Gaz. vol. 178; p. 463.
Lewis, Turner A., Winchester, Va. Grain threshing and separating machine. No. 1,026,685; May 21; Sp. p. 3511; Gaz. vol. 178; p. 612.
Lewis, Walter, Philadelphia, Pa. Safety device for aeroplanes. No. 1,024,407; Apr. 23; Sp. p. 5669; Gaz. vol. 177; p. 987.
Lewis, Weldon E., Hot Springs, Ark. Grocer's cabinet. No. 1,022,685; Apr. 9; Sp. p. 1981; Gaz. vol. 177; p. 343.
Lewis, Wilfred, Philadelphia, Pa. Forming undercut slots. No. 1,014,658; Jan. 16; Sp. p. 3499; Gaz. vol. 174; p. 599.
Lewis, Wilfred, assignor, by mesne assignments, to The Tabor Manufacturing Company, Philadelphia, Pa. Jar molding-machine. No. 1,033,812; July 30; Gaz. vol. 180; p. 1158.
Lewis, William A., and J. E. Stephen, Ashland, assignors of one-third to H. G. Rowley, Stuart, Okla. Rail tie and fastener. No. 1,021,936; Apr. 2; Sp. p. 378; Gaz. vol. 177; p. 63.
Lewis, William F., Lynn, Mass. Machine-awl. No. 1,024,795; Apr. 30; Sp. p. 6591; Gaz. vol. 177; p. 1159.
Lewis, William M. (See Bigsby and Lewis.)
Lewis, William M., Richmond, assignor of one-half to C. A. Brock, Pinners Point, Va. Car-door lock. No. 1,016,836; Feb. 6; Sp. p. 1333; Gaz. vol. 175; p. 206.
Lewis, Wyndham W., Highgate, London, England. Acetylene-gas generator. No. 1,021,612; Mar. 26; Sp. p. 5546; Gaz. vol. 176; p. 996.
Lewy, Philipp, Berlin-Wilmersdorf, Germany. Making clear and durable hemaglobin preparations. No. 1,048,185; Dec. 24; Gaz. vol. 185; p. 925.
Leyner, John G., Denver, Colo. Air-controlling valve for rock-drilling engines. No. 1,039,972; Oct. 1; Gaz. vol. 183; p. 100.
Leyner, John G., Denver, Colo. Fluid-operated drill-steel-gripping vise for drill-bit-sharpening machines. No. 1,040,221; Oct. 1; Gaz. vol. 183; p. 184.
Leyner, John G., Denver, assignor to The J. Geo. Leyner Engineering Works Company, Littleton, Colo. Fluid-controlled drill-steel-forming and drill-bit-sharpening machine. No. 1,026,872; May 21; Sp. p. 3916; Gaz. vol. 178; p. 676.
Leyner, John G., Denver, assignor to The J. Geo. Leyner Engineering Works Company, Littleton, Colo. Down-hole handle-supported rock-mill. No. 1,039,971; Oct. 1; Gaz. vol. 183; p. 100.
Liais, Lucien, Paris, France. Cover for pneumatic tires. No. 1,023,666; Apr. 16; Sp. p. 4048; Gaz. vol. 177; p. 710.
Libbey, Henry N., Boston, Mass. Closet-tank valve. No. 1,021,367; Mar. 26; Sp. p. 4997; Gaz. vol. 176; p. 912.
Libbey, Samuel R., Cottonwood, Idaho. Extension-table. No. 1,043,710; Nov. 5; Gaz. vol. 184; p. 234.
Libbman, Louis, Everett, assignor to Gem Manufacturing Company, Chelsea, Mass. Ash-sifter. No. 1,036,280; Aug. 20; Gaz. vol. 181; p. 708.
Libby, Albion D. T., Elyria, Ohio, assignor to Kellogg Switchboard & Supply Company, Chicago, Ill. Circuit-breaker. No. 1,019,060; Mar. 5; Sp. p. 100; Gaz. vol. 176; p. 19.
Libby, Albion D. T., assignor to The Dean Electric Company, Elyria, Ohio. Composite electric system. No. 1,023,256; Apr. 16; Sp. p. 3235; Gaz. vol. 177; p. 579.
Libby, Albion D. T., assignor to Dean Electric Company, Elyria, Ohio. Signal-box. No. 1,042,700; Oct. 29; Gaz. vol. 183; p. 1155.
Libby, Almon G. (See Nimmo and Libby.)
Libby, Charles E., Burnham, Me. Riding attachment for horse-hoes. No. 1,036,281; Aug. 20; Gaz. vol. 181; p. 709.
Libby, Charles L., Indianapolis, Ind. Gearing. No. 1,021,875; Apr. 2; Sp. p. 267; Gaz. vol. 177; p. 43.
Libby, George H., and H. L. Turney, Portland, Oreg. Air-brake mechanism for logging-trains. No. 1,040,222; Oct. 1; Gaz. vol. 183; p. 184.
Libby Glass Company, The. (See Brownlee, William K., assignor.)
Libby, John K., Malden, Mass Vehicle-wheel. No. 1,035,207; Aug. 13; Gaz. vol. 181; p. 300.
Libby, Sam H., Bloomfield, N. J., assignor to General Electric Company. Grab-bucket hoist. No. 1,019,500; Mar. 5; Sp. p. 1144; Gaz. vol. 176; p. 168.
Libby, Sam H., East Orange, N. J., assignor to General Electric Company. Means for handling freight. No. 1,022,033; Apr. 2; Sp. p. 601; Gaz. vol. 177; p. 95.
Libert, Arthur, *et al.* (See Libert, Fred, assignor.)
Libert, Arthur. (See Roberts and Libert.)
Libert, Fred, assignor of one-third to A. Libert and one-third to A. Roberts, Green Bay, Wis. Machine for removing bark from logs. No. 1,015,898; Jan. 30; Sp. p. 6173; Gaz. vol. 174; p. 1077.
Liberty, Antoine J., and L. A. Kirchner, assignors to Detroit Auto Specialty Company, Detroit, Mich. Combined fender and mud-guard for automobiles. No. 1,044,670; Nov. 19; Gaz. vol. 184; p. 627.
Liberty Cartridge Co. (See Funk, Edgar M., assignor.)
Liberty Manufacturing Company. (See Elliott, Mills, and Holt, assignors.)
Liberty Vending Co. (See Elzas, Martin, assignor.)
Library Bureau. (See Hunter, David E., assignor.)
Lichetti, James, Philadelphia, Pa. Car-fender. No. 1,019,671; Mar. 5; Sp. p. 1452; Gaz. vol. 176; p. 224.
Lichtenberg, Erich H., Milwaukee, Wis., assignor of one-fourth to W. L. Hall, Chicago, Ill. Pneumatic cleaning apparatus. No. 1,034,260; July 30; Gaz. vol. 180; p. 1316.
Lichtenfeld, William F. (See Röthman, Eugene, assignor.)
Lichtenstein, Joseph, *et al.* (See Davis, Claude B., assignor.)
Lichtenstein, Solomon K. (See Lispenard, George, assignor.)
Lichtiger, Max. (See Mainker, Rubin, assignor.)
Lickey, Clarence, Round Hill, Va. Cultivator attachment. No. 1,027,264; May 21; Sp. p. 4811; Gaz. vol. 178; p. 811.
Lidbury, Frank A., Niagara Falls, N. Y. Production of oxalic acid. No. 1,031,074; July 2; Gaz. vol. 180; p. 80.
Liddell, Robert, Tecumseh, Nebr. Hydrocarbon-burner. No. 1,028,892; June 11; Sp. p. 1784; Gaz. vol. 179; p. 312.
Liddle, John, *et al.* (See Thomas, Frank M., assignor.)
Liddon, Benjamin F., Corinth, Miss. Vehicle-jack. No. 1,040,223; Oct. 1; Gaz. vol. 183; p. 185.
Liden, Gus F., Oshkosh, Wis. Horseshoe. No. 1,045,573; Nov. 26; Gaz. vol. 184; p. 972.
Lidgerwood Manufacturing Company. (See Baechtold, Charles A., assignor.)
Lidgerwood Manufacturing Company. (See Covell, Harry N., assignor.)
Lidgerwood Manufacturing Company. (See Crawford, George N., assignor.)
Lidgerwood Manufacturing Company. (See Evers, Cyrus, assignor.)
Lidgerwood Manufacturing Company, The. (See Kirby, Walter S., assignor.)
Lieb, George, Newark, N. J. Bottle-closure. No. 1,024,212; Apr. 23; Sp. p. 5269; Gaz. vol. 177; p. 923.
Lieb, John F., Philadelphia, Pa. Automobile-tire. No. 1,019,973; Mar. 12; Sp. p. 2063; Gaz. vol. 176; p. 356.
Liebau, Gustav H., Metuchen, N. J. Apparatus for making flat and corrugated cement plates. No. 1,031,190; July 2; Gaz. vol. 180; p. 121.
Liebau, Richard, Watervliet, N. Y. Spring-vehicle. No. 1,020,209; Mar. 12; Sp. p. 2570; Gaz. vol. 176; p. 436.
Liebau, Richard, Watervliet, N. Y. Spring-vehicle. No. 1,026,098; May 14; Sp. p. 2232; Gaz. vol. 178; p. 377.
Liebau, Richard, Watervliet, N. Y., assignor to The Westinghouse Air Spring Company. Pneumatic spring for vehicles. No. 1,046,090; Dec. 3; Gaz. vol. 185; p. 100.
Liebau, Richard, Watervliet, N. Y., assignor to The Westinghouse Air Spring Company. Pneumatic spring for vehicles. No. 1,046,091; Dec. 3; Gaz. vol. 185; p. 100.

Alphabetical list of patentees—Continued.

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Liebenrood, Josephus W., Cincinnati, Ohio. Photographic-printing device. No. 1,031,563; July 2; Gaz. vol. 180; p. 248.
Liebenthal, Herman G., Philadelphia, Pa. Duplicating-machine. No. 1,048,551; Dec. 31; Gaz. vol. 185; p. 1088.
Lieber, William H., assignor to Allis-Chalmers Company, Milwaukee, Wis. Lubricating system. No. 1,014,628; Jan. 9; Sp. p. 3394; Gaz. vol. 174; p. 559.
Lieber, William H., assignor to Allis-Chalmers Company, Milwaukee, Wis. Packing-expander. No. 1,019,262; Mar. 5; Sp. p. 559; Gaz. vol. 176; p. 89.
Lieber, William H., assignor to Allis-Chalmers Company, Milwaukee, Wis. Packing-expander. No. 1,022,034; Apr. 2; Sp. p. 602; Gaz. vol. 177; p. 95.
Lieber, William H., assignor to Allis-Chalmers Company, Milwaukee, Wis. Engineer's valve. No. 1,030,193; June 18; Sp. p. 4616; Gaz. vol. 179; p. 795.
Lieber, William H., assignor to Allis-Chalmers Company, Milwaukee, Wis. Crusher. No. 1,030,194; June 18; Sp. p. 4619; Gaz. vol. 179; p. 795.
Lieberman, Joseph. (See Friedman, Lieberman, and Rose.)
Lieberman, Samuel. (See Horovich, Max, assignor.)
Liebert, William E. C., London, England. Fireproof door and like structure. No. 1,045,714; Nov. 26; Gaz. vol. 184; p. 1022.
Liebknecht, Otto, Frankfort-on-the-Main, Germany, assignor to Roessler & Hasslacher Chemical Co., New York, N. Y. Manufacture of glycolic acid. No. 1,013,502; Jan. 2; Sp. p. 901; Gaz. vol. 174; p. 144.
Liebknecht, Otto, Frankfort-on-the-Main, Germany, assignor to Roessler and Hasslacher Chemical Co., New York, N. Y. Stable hydrogen-peroxid solution. No. 1,025,948; May 7; Sp. p. 1878; Gaz. vol. 178; p. 288.
Liebreich, Erik, Berlin, Germany. Protecting floating bodies against adhering of mussels. No. 1,043,051; Oct. 29; Gaz. vol. 183; p. 1276.
Lied, Ole S., Christiania, Norway. Automatic igniting and extinguishing device for gas-burners. No. 1,043,946; Nov. 12; Gaz. vol. 184; p. 347.
Liedtke, Hugo F., Wilkinsburg, Pa. Turbine-governor. No. 1,035,713; Aug. 13; Gaz. vol. 181; p. 473.
Liesemeyer, Hermann H. (See Heidbrink and Liesemeyer.)
Liesenfeld, John, Park Rapids, Minn. Device for use in curing hay in the fields. No. 1,017,429; Feb. 13; Sp. p. 2656; Gaz. vol. 175; p. 449.
Liesinger, Rudolph T. G., Buffalo, N. Y. Sanitary rendering and drying apparatus. No. 1,031,010; July 2; Gaz. vol. 180; p. 56.
Lieske, Alvin F., Henderson, Minn. Chimney-cap. No. 1,029,072; June 11; Sp. p. 2171; Gaz. vol. 179; p. 374.
Lietz, Adolph, San Rafael, Cal. Clutch for navigational sounding-machines and the like. No. 1,047,421; Dec. 17; Gaz. vol. 185; p. 634.
Lietzenmayer, William J., Webster, N. Y., assignor to Allis-Chalmers Company and The Bullock Electric Manufacturing Company. Expulsion-fuse circuit-breaker. No. 1,021,054; Mar. 26; Sp. p. 4353; Gaz. vol. 176; p. 808.
Ligammori, Salvatore, New York, N. Y. Lock. No. 1,014,073; Jan. 9; Sp. p. 2203; Gaz. vol. 174; p. 369.
Ligart, Julius. (See Knapp and Ligart.)
Liggett, William K., Columbus, Ohio, assignor, by mesne assignments, to The Jeffrey Manufacturing Company. Carrier or conveyer. No. 1,044,547; Nov. 19; Gaz. vol. 184; p. 584.
Liggett, William K., and W. J. Armstrong, Columbus, Ohio, assignors to The Jeffrey Manufacturing Company. Pulverizer. No. 1,041,495; Oct. 15; Gaz. vol. 183; p. 681.
Liggett, William K., and W. J. Armstrong, Columbus, Ohio, assignors to The Jeffrey Manufacturing Company. Pulverizer. No. 1,044,401; Nov. 12; Gaz. vol. 184; p. 503.
Light, Arthur H., Los Angeles, Cal. Oil-fed furnace. No. 1,024,347; Apr. 23; Sp. p. 5521; Gaz. vol. 177; p. 967.
Light, Claus H., and C. H. Hutchinson, Des Moines, Iowa. Bag-holder. No. 1,018,671; Feb. 27; Sp. p. 5437; Gaz. vol. 175; p. 943.
Light, William D., Dunkirk, N. Y. Combined display and shipping case. No. 1,041,496; Oct. 15; Gaz. vol. 183; p. 681.
Lightcap, Harry R., Greensburg, Pa. Audible signal or annunciator for incubators. No. 1,034,261; July 30; Gaz. vol. 180; p. 1317.
Lightfoot, Cecil, Buffalo, N. Y. Means for regulating rate of flow through a passage. No. 1,023,209; Apr. 16; Sp. p. 3147; Gaz. vol. 177; p. 563.
Lightfoot, Cecil, Buffalo, N. Y., assignor to Oxweld Acetylene Company, Chicago, Ill. Hydraulic back-pressure valve. No. 1,045,715; Nov. 26; Gaz. vol. 184; p. 1022.
Lightfoot, Edwin N., New York, N. Y. Electric resistance unit. No. 1,046,816; Dec. 10; Gaz. vol. 185; p. 395.
Lightfoot, Ota P. (See Ronnau, Herman, assignor.)
Ligon, Harry W., Atlanta, Ga. Automatic cut-off valve for pneumatic cotton-elevators. No. 1,022,635; Apr. 9; Sp. p. 1863; Gaz. vol. 177; p. 326.
Ligon, Harry W., Atlanta, Ga., assignor to Continental Gin Company, Birmingham, Ala. Metal spacer for gin-saws. No. 1,038,911; Sept. 17; Gaz. vol. 182; p. 657.
Likes, Albert H. (See Isaacs and Likes.)
Lile, Zenas R., and V. H. Davidson, Corbin, Kans. Corn-topping mechanism. No. 1,041,821; Oct. 22; Gaz. vol. 183; p. 828.
Lilienfeld, Leon, Vienna, Austria-Hungary. Producing sulfur derivatives derived from glycerin. No. 1,018,329; Feb. 20; Sp. p. 4622; Gaz. vol. 175; p. 794.
Lilienfeld, Leon, Vienna, Austria-Hungary. Finishing, filling, loading, or dressing textile fabrics and spun goods. No. 1,036,282; Aug. 20; Gaz. vol. 181; p. 709.
Lilienfeld, Leon, Vienna, Austria-Hungary. Manufacturing substitutes for oils, caoutchouc, resins, and the like. No. 1,037,158; Aug. 27; Gaz. vol. 181; p. 1036.
Lill, Hubert, Mannheim, Germany. Photographic apparatus. No. 1,030,737; June 25; Sp. p. 6041; Gaz. vol. 179; p. 1029.
Lilleberg, Charles L., Chicago, Ill. Land-rolling machine. No. 1,017,430; Feb. 13; Sp. p. 2658; Gaz. vol. 175; p. 449.
Lilleberg, Charles L., assignor to W. H. Johnson, Chicago, Ill. Perforating-machine. No. 1,042,453; Oct. 29; Gaz. vol. 183; p. 1068.
Lilleberg, Tideman M., Woodstock, Ill. Character-forming machine. No. 1,028,037; May 28; Sp. p. 6468; Gaz. vol. 178; p. 1107.
Lilley, Alfred L., assignor to The Smith-Worthington Company, Hartford, Conn. Press for finishing leather loops. No. 1,027,552; May 28; Sp. p. 5401; Gaz. vol. 178; p. 946.
Lillibridge, Andrew. (See Lillibridge, Jerome B. and A.)
Lillibridge, Jerome B. and A., assignors of one-third to A. R. Quigg, Elk City, Kans. Flue-expander. No. 1,015,447; Jan. 23; Sp. p. 5206; Gaz. vol. 174; p. 895.
Lillich, Frederick, Philadelphia, Pa. Car-fender. No. 1,017,431; Feb. 13; Sp. p. 2659; Gaz. vol. 175; p. 449.
Lillick, Frederick T., Hamilton, Mont. Fruit-cutter. No. 1,042,240; Oct. 22; Gaz. vol. 183; p. 967.
Lillie, Frank M., *et al.* (See Foster, Freling C., assignor.)
Lillie, Samuel M., Philadelphia, Pa. Composition of matter and manufacturing the same. No. 1,014,237; Jan. 9; Sp. p. 2557; Gaz. vol. 174; p. 426.
Lillie, Samuel M., Philadelphia, Pa. Apparatus for converting starch by a continuous operation into derivatives, dextrin, dextrose, &c. No. 1,014,311; Jan. 9; Sp. p. 2704; Gaz. vol. 174; p. 452.
Lillie, Samuel M., Philadelphia, Pa. Starch-conversion process. No. 1,023,257; Apr. 16; Sp. p. 3238; Gaz. vol. 177; p. 579.
Lillie, Samuel M., Philadelphia, Pa. Removing salt from evaporators. No. 1,036,127; Aug. 20; Gaz. vol. 181; p. 653.
Lillie, Samuel M., Philadelphia, Pa. Apparatus for the continuous conversion of starch into glucose and other derivatives. No. 1,038,397; Sept. 10; Gaz. vol. 182; p. 442.
Lilliston, Thomas M., Suffolk, Va. Peanut-picker. No. 1,017,570; Feb. 13; Sp. p. 2936; Gaz. vol. 175; p. 496.
Lilly, Ernest W., Menlo, Wash. Combined ditching and grading machine. No. 1,043,610; Nov. 5; Gaz. vol. 184; p. 201.
Lilly, Joseph, Birmingham, England. Hinge-joint. No. 1,029,699; June 18; Sp. p. 3547; Gaz. vol. 179; p. 627.
Limited Company Herm. Lohnert, Aktiengesellschaft. (See Beneke, Richard, assignor.)
Linaker, Frederick W. (See Hibner and Linaker.)
Linardos, John D., *et al.* (See Clifford, Robert, assignor.)
Lincoln Architectural Iron Company. (See Rothrock, Samuel W., assignor.)
Lincoln Company, The. (See Lincoln, John C., assignor.)
Lincoln, Edwin S., Brookline, Mass. Ignition system. No. 1,046,614; Dec. 10; Gaz. vol. 185; p. 323.
Lincoln, Edwin S., Brookline, Mass., assignor to Electric Goods Manufacturing Company. Magneto-circuit controller. No. 1,015,328; Jan. 23; Sp. p. 4952; Gaz. vol. 174; p. 855.
Lincoln, Edwin S., Brookline, Mass., assignor to Electric Goods Manufacturing Company. Single-spark ignition system. No. 1,017,300; Feb. 13; Sp. p. 2370; Gaz. vol. 175; p. 404.
Lincoln, Edwin S., Brookline, Mass., assignor to Electric Goods Manufacturing Company. Pole-reversing timer or distributer. No. 1,019,061; Mar. 5; Sp. p. 103; Gaz. vol. 176; p. 20.
Lincoln, Edwin S., Brookline, Mass., assignor to Electric Goods Manufacturing Company. Unispark ignition system. No. 1,039,973; Oct. 1; Gaz. vol. 183; p. 101.
Lincoln, Edwin S., Brookline, Mass., assignor to Electric Goods Manufacturing Company. Combined ignition and working system. No. 1,039,974; Oct. 1; Gaz. vol. 183; p. 102.
Lincoln, John C., East Cleveland, Ohio. Convertible motor. No. 1,018,833; Feb. 27; Sp. p. 5782; Gaz. vol. 175; p. 999.

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Lincoln, John C., assignor to The Lincoln Company, Cleveland, Ohio. Electric-arc lamp. No. 1,031,352; July 2; Gaz. vol. 180; p. 177.
Lincoln, John C., East Cleveland, assignor to The Lincoln Company, Cleveland, Ohio. Variable-speed electric motor. No. 1,043,325; Nov. 5; Gaz. vol. 184; p. 100.
Lincoln, John C., East Cleveland, assignor to The Electric Meat Curing Company, Cleveland, Ohio. Apparatus for curing meat. No. 1,037,941; Sept. 10; Gaz. vol. 182; p. 291.
Lincoln, John C., assignor to The Electric Meat Curing Company, Cleveland, Ohio. Preserving. No. 1,044,201; Nov. 12; Gaz. vol. 184; p. 435.
Lincoln, Paul M., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. System of electrical distribution. No. 1,013,186; Jan. 2; Sp. p. 188; Gaz. vol. 174; p. 33.
Lincoln, Paul M., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. System of electrical distribution. No. 1,039,767; Oct. 1; Gaz. vol. 183; p. 33.
Lincoln, Purd J., Birmingham, Ala. Reciprocating electric motor for drills. No. 1,014,495; Jan. 9; Sp. p. 3087; Gaz. vol. 174; p. 513.
Lind, Elmer F., St. Paul, Minn. Combined cart and sled. No. 1,016,640; Feb. 6; Sp. p. 943; Gaz. vol. 175; p. 141.
Lind, Monroe P. (See Schandein and Lind.)
Lindahl, Erick P., assignor to Sanitary Bottling Device Company, Minneapolis, Minn. Bottle-carrier. No. 1,017,432; Feb. 13; Sp. p. 2661; Gaz. vol. 175; p. 450.
Lindahl, Erick P., assignor to Sanitary Bottling Device Company, Minneapolis, Minn. Bottle-filler. No. 1,032,687; July 16; Gaz. vol. 180; p. 720.
Lindal, Robert H., Gloucester City, N. J. Telephone. No. 1,043,526; Nov. 5; Gaz. vol. 184; p. 172.
Lindau, Alfred E., assignor to Corrugated Bar Company, St. Louis, Mo. Metal reinforcing and spacing bar. No. 1,014,711; Jan. 16; Sp. p. 3605; Gaz. vol. 174; p. 617.
Lindau, Alfred E., assignor to Corrugated Bar Company, St. Louis, Mo. Metal reinforcing and spacing bar. No. 1,014,712; Jan. 16; Sp. p. 3606; Gaz. vol. 174; p. 618.
Lindau, Alfred E., assignor to Corrugated Bar Company, St. Louis, Mo. Concrete-reinforce. No. 1,043,782; Nov. 5; Gaz. vol. 184; p. 258.
Lindbeck, Edward C., assignor of one-half to A. H. Johnson, Jamestown, N. Y. Window-screen. No. 1,043,444; Nov. 5; Gaz. vol. 184; p. 142.
Lindberg, Charles A. (See Lord, Lindberg, and Flanigan.)
Lindberg, Charles A., Bradford, Pa. Vacuum-cleaner. No. 1,037,027; Aug. 27; Gaz. vol. 181; p. 993.
Lindberg, Charles A., Bradford, Pa. Trolley. No. 1,039,975; Oct. 1; Gaz. vol. 183; p. 102.
Lindberg, Charles A., Bradford, Pa. Rat-trap. No. 1,044,202; Nov. 12; Gaz. vol. 184; p. 435.
Lindberg, John F. (See Silliman and Lindberg.)
Lindblad, Axel R. (See Grönwall, Lindblad, and Stålhane.)
Lindblad, Fredrik, New York, N. Y. Car-wheel. No. 1,023,574; Apr. 16; Sp. p. 3873; Gaz. vol. 177; p. 682.
Linde, Carl von, Munich, Germany. Production of hydrogen from gas mixtures containing hydrogen. No. 1,020,102; Mar. 12; Sp. p. 2336; Gaz. vol. 176; p. 399.
Linde, Carl von, Munich, Germany. Separation of hydrogen from gaseous mixtures. No. 1,020,103; Mar. 12; Sp. p. 2338; Gaz. vol. 176; p. 400.
Linde, Carl von, Munich, Germany. Apparatus for the separation of hydrogen from a gaseous mixture. No. 1,027,862; May 28; Sp. p. 6090; Gaz. vol. 178; p. 1050.
Linde, Carl von, Munich, Germany. Apparatus for the separation of hydrogen. No. 1,027,863; May 28; Sp. p. 6092; Gaz. vol. 178; p. 1050.
Lindeburg, Fredrick G. (See Schmidgall and Barnewolt, assignors.)
Lindeman, Max, Owego, assignor of one-fourth to L. A. Van Praag, New York, N. Y. Tip-printing press. No. 1,042,014; Oct. 22; Gaz. vol. 183; p. 893.
Lindemann, Albert J., assignor to A. J. Lindemann & Hoverson Co., Milwaukee, Wis. Oil-stove burner. No. 1,041,111; Oct. 15; Gaz. vol. 183; p. 553.
Lindemeyer, William J., Stapleton, N. Y. Ventilator. No. 1,042,575; Oct. 29; Gaz. vol. 183; p. 1111.
Linden, Carl, Oakland, Cal. Window-cleaner's seat. No. 1,033,424; July 23; Gaz. vol. 180; p. 1005.
Linden, Lucien, Brussels, Belgium. Apparatus for the mechanical treatment of impure water and other liquids. No. 1,024,451; Apr. 23; Sp. p. 5759; Gaz. vol. 177; p. 1002.
Lindenberg, Gustav, Barmen, Germany. Vacuum dust-sucker. No. 1,024,267; Apr. 23; Sp. p. 5390; Gaz. vol. 177; p. 944.
Lindenberg, Herman, West Hoboken, N. J. Rotary engine. No. 1,038,398; Sept. 10; Gaz. vol. 182; p. 443.
Linder, John, Meadowlands, assignor of one-half to C. Maurer, Bovey, Minn. Corn-husker. No. 1,022,428; Apr. 9; Sp. p. 1435; Gaz. vol. 177; p. 257.
Linder, John, Deer Park, Wash., assignor to Eastman Kodak Co., Rochester, N. Y. Photographic shutter. No. 1,026,043; May 14; Sp. p. 2082; Gaz. vol. 178; p. 357.
Linder, Lemon M., Matthews, Ind. Surface scraper or grader. No. 1,023,210; Apr. 16; Sp. p. 3150; Gaz. vol. 177; p. 564.
Linder, Oscar. (See Small and Linder.)
Lindestrom, Hjalmar, Chicago, Ill. Pressing-machine. No. 1,023,575; Apr. 16; Sp. p. 3875; Gaz. vol. 177; p. 682.
Lindgren, Alexus C., Moline, Ill., assignor to Moline Plow Company. Wheeled plow. No. 1,044,203; Nov. 12; Gaz. vol. 184; p. 435.
Lindgren, Alexus C., Moline, Ill., assignor to Moline Plow Company. Wheeled plow. No. 1,044,204; Nov. 12; Gaz. vol. 184; p. 436.
Lindgren, Alfred, Salina, Kans. Dry-goods wrapper. No. 1,045,046; Nov. 19; Gaz. vol. 184; p. 758.
Lindgren, August, Moline, Ill., assignor to Moline Plow Company. Disk harrow. No. 1,033,330; July 23; Gaz. vol. 180; p. 974.
Lindhard, Povl T., assignor to F. L. Smidth & Co., New York, N. Y. Burner for rotary kilns, &c. No. 1,042,576; Oct. 29; Gaz. vol. 183; p. 1111.
Lindholm Metal Stamping Company. (See Joseph, George M., assignor.)
Lindhorst, Edward H. B., Butte, Mont. Flag-holder for automobiles. No. 1,039,554; Sept. 24; Gaz. vol. 182; p. 895.
Lindley, Andrew K., assignor of one-half to M. E. Sharp, Los Angeles, Cal. Gas-furnace. No. 1,026,814; May 21; Sp. p. 3787; Gaz. vol. 178; p. 656.
Lindley, Arthur G., and N. F. Dickens, Schenectady, N. Y. Window-sash-adjusting device. No. 1,021,937; Apr. 2; Sp. p. 379; Gaz. vol. 177; p. 63.
Lindley, Frederick R., Corsicana, Tex. Removable mouthpiece for smoking-pipes. No. 1,037,780; Sept. 3; Gaz. vol. 182; p. 201.
Lindley, Lowell F., Chicago, Ill. Weatherproof covering. No. 1,040,706; Oct. 8; Gaz. vol. 183; p. 385.
Lindner, Max, Berlin, Germany. Lock. No. 1,028,368; June 4; Sp. p. 671; Gaz. vol. 179; p. 100.
Lindner, Rudolf, Erie, Pa. Sprinkler. No. 1,025,410; May 7; Sp. p. 667; Gaz. vol. 178; p. 105.
Lindquist, David L., Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Electromagnet. No. 1,038,610; Sept. 17; Gaz. vol. 182; p. 551.
Lindquist, David L., Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Brake-magnet protective and demagnetizing device. No. 1,041,641; Oct. 15; Gaz. vol. 183; p. 727.
Lindquist, David L., Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Brake apparatus. No. 1,041,642; Oct. 15; Gaz. vol. 183; p. 728.
Lindquist, David L., Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Magnetic traction apparatus. No. 1,043,527; Nov. 5; Gaz. vol. 184; p. 173.
Lindquist, David L., Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Brake-magnet protective and demagnetizing device. No. 1,043,528; Nov. 5; Gaz. vol. 184; p. 173.
Lindquist, David L., Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Traction-elevator system. No. 1,047,255; Dec. 17; Gaz. vol. 185; p. 575.
Lindquist, David L., and D. Larson, Yonkers, N. Y., assignors to Otis Elevator Company, Jersey City, N. J. Electric-switch-contact holder. No. 1,016,837; Feb. 6; Sp. p. 1335; Gaz. vol. 175; p. 206.
Lindquist, Frank W., Winthrop, Minn. Collar and neck-pad support. No. 1,014,074; Jan. 9; Sp. p. 2205; Gaz. vol. 174; p. 369.
Lindridge, Charles D., Providence, R. I. System for amplifying electric-current variations. No. 1,047,956; Dec. 24; Gaz. vol. 185; p. 849.
Lindsay, Hamilton, assignor to The Lindsay Wire Weaving Company, Cleveland, Ohio. Warp tension device for looms. No. 1,044,205; Nov. 12; Gaz. vol. 184; p. 436.
Lindsay, Leroy J., Seymour, Iowa. Marker for corn-planters. No. 1,040,364; Oct. 8; Gaz. vol. 183; p. 263.
Lindsay, Solomon C., Greensburg, Pa. Convertible car. No. 1,043,326; Nov. 5; Gaz. vol. 184; p. 101.
Lindsay, Thomas E., Jackson, Tenn. Show-case. No, 1,023,576; Apr. 16; Sp. p. 3877; Gaz. vol. 177; p. 683.
Lindsay, Thomas E., Jackson, Tenn. Drinking-fountain. No. 1,038,399; Sept. 10; Gaz. vol. 182; p. 443.
Lindsay, Thomas J., Indianapolis, Ind. Driving-axle for motor-vehicles. No. 1,036,659; Aug. 27; Gaz. vol. 181; p. 871.
Lindsay, Thomas J., Indianapolis, Ind. Worm-drive axle structure. No. 1,036,660; Aug. 27; Gaz. vol. 181; p. 871.
Lindsay, William E., assignor, by mesne assignments, to The Perfect Bottle Cap Company, Baltimore, Md. Machine for sealing bottles. No. 1,018,575; Feb. 27; Sp. p. 5241; Gaz. vol. 175; p. 911.
Lindsay, William G., New York, N. Y. Bottle. No. 1,037,272; Sept. 3; Gaz. vol. 182; p. 32.
Lindsay, William G., assignor to The Celluloid Company, New York, N. Y. Solvents for acetyl cellulose. No. 1,027,486; May 28; Sp. p. 5271; Gaz. vol. 178; p. 924.

Alphabetical list of patentees—Continued.

Lindsay, William G., assignor to The Celluloid Company, New York, N. Y. Solvent for acetyl cellulose. No. 1,027,614; May 28; Sp. p. 5529; Gaz. vol. 178; p. 967.
Lindsay, William G., assignor to The Celluloid Company, New York, N. Y. Solvent for acetyl cellulose. No. 1,027,615; May 28; Sp. p. 5530; Gaz. vol. 178; p. 967.
Lindsay, William G., assignor to The Celluloid Company, New York, N. Y. Solvent for acetyl cellulose. No. 1,027,616; May 28; Sp. p. 5531; Gaz. vol. 178; p. 967.
Lindsay, William G., assignor to The Celluloid Company, New York, N. Y. Solvent for nitrocellulose. No. 1,027,617; May 28; Sp. p. 5532; Gaz. vol. 178; p. 968.
Lindsay, William G., assignor to The Celluloid Company, New York, N. Y. Solvent for nitrocellulose. No. 1,027,618; May 28; Sp. p. 5533; Gaz. vol. 178; p. 968.
Lindsay, William G., assignor to The Celluloid Company, New York, N. Y. Solvent for acetyl cellulose. No. 1,027,619; May 28; Sp. p. 5534; Gaz. vol. 178; p. 968.
Lindsay, William G., assignor to The Celluloid Company, New York, N. Y. Solvent for acetyl cellulose. No. 1,041,112; Oct. 15; Gaz. vol. 183; p. 553.
Lindsay, William G., New York, N. Y., assignor to The Celluloid Company. Acetyl-cellulose compound and making same. No. 1,045,990; Dec. 3; Gaz. vol. 185; p. 66.
Lindsay, William G., Caldwell, N. J., assignor to The Celluloid Company, New York, N. Y. Making acetyl cellulose plastics and solvents thereof. No. 1,041,113; Oct. 15; Gaz. vol. 183; p. 553.
Lindsay, William G., Caldwell, N. J., assignor to The Celluloid Company, New York, N. Y. Solvent of acetyl cellulose. No. 1,041,114; Oct. 15; Gaz. vol. 183; p. 553.
Lindsay, William G., Caldwell, N. J., assignor to The Celluloid Company, New York, N. Y. Compound of acetyl cellulose and making such compound. No. 1,041,115; Oct. 15; Gaz. vol. 183; p. 554.
Lindsay, William G., Caldwell, N. J., assignor to The Celluloid Company, New York, N. Y. Converting acetyl cellulose. No. 1,041,116; Oct. 15; Gaz. vol. 183; p. 554.
Lindsay, William G., Caldwell, N. J., assignor to The Celluloid Company, New York, N. Y. Making acetyl-cellulose plastic compounds. No. 1,014,117; Oct. 15; Gaz. vol. 183; p. 554.
Lindsay, William G., Caldwell, N. J., assignor to The Celluloid Company, New York, N. Y. Making acetyl-cellulose plastic compounds. No. 1,041,118; Oct. 15; Gaz. vol. 183; p. 554.
Lindsay Wire Weaving Company, The. (See Lindsay, Hamilton, assignor.)
Lindsey, Charles E., assignor of one-eighth to E. E. Dupray, one-fourth to L. Schulhoefer, one-sixteenth to G. Hague, and one-sixteenth to J. Lindsey, Birmingham, Ala. Nut-lock. No. 1,018,199; Feb. 20; Sp. p. 4371; Gaz. vol. 175; p. 750.
Lindsey, George M. and W. A., Los Angeles, Cal. Watch-guard. No. 1,027,487; May 28; Sp. p. 5271; Gaz. vol. 178; p. 924.
Lindsey, James, *et al.* (See Lindsey, Charles E., assignor.)
Lindsey, James O., Hereford, Tex. Windmill. No. 1,019,974; Mar. 12; Sp. p. 2064; Gaz. vol. 176; p. 356.
Lindsey, John C., Los Angeles, Cal. Weeder. No. 1,036,283; Aug. 20; Gaz. vol. 181; p. 709.
Lindsey, William A. (See Lindsey, George M. and W. A.)
Lindsley & Allen Electric Company. (See Cavanagh, John F., assignor.)
Lindsley, Eugene H., Millbank, S. D. Hydraulic motor. No. 1,043,849; Nov. 12; Gaz. vol. 184; p. 313.
Lindström, Carl, Berlin, Germany. Clutch-actuating device for phonographs. No. 1,034,126; July 30; Gaz. vol. 180; p. 1269.
Lindström, Charles A., assignor to Pressed Steel Car Company, Pittsburgh, Pa. Tank-car. No. 1,020,765; Mar. 19; Sp. p. 3755; Gaz. vol. 176; p. 658.
Lindström, Charles A., assignor to Pressed Steel Car Company, Pittsburgh, Pa. Tank-car construction. No. 1,021,539; Mar. 26; Sp. p. 5404; Gaz. vol. 176; p. 973.
Lindström, Charles A., Pittsburgh, and J. F. Streib, Avalon, assignors to Pressed Steel Car Company, Pittsburgh, Pa. Dump-car. No. 1,019,263; Mar. 5; Sp. p. 561; Gaz. vol. 176; p. 89.
Lindström, Gustaf H., assignor to Fitzroy Tanning Company Limited, New Plymouth, New Zealand. Tanning. No. 1,039,150; Sept. 24; Gaz. vol. 182; p. 752.
Lindström, Knut I., Nykvarn, Sweden. Milking-machine. No. 1,045,991; Dec. 3; Gaz. vol. 185; p. 66.
Line, Elwood S., Omaha, Nebr. Oil-burner. No. 1,021,839; Apr. 2; Sp. p. 196; Gaz. vol. 177; p. 32.
Line, George H., Chicago, Ill. Monogram-panel. No. 1,014,312; Jan. 9; Sp. p. 2710; Gaz. vol. 174; p. 452.
Lineback, Edward E., assignor of one-sixth to J. E. Alexander and five-sixths to W. D. Currin, Winston Salem, N. C. Boot and shoe cleaning and polishing machine. No. 1,019,672; Mar. 5; Sp. p. 1454; Gaz. vol. 176; p. 224.
Lineberger, Lester T., Gastonia, N. C. Lightning-arrester. No. 1,020,429; Mar. 19; Sp. p. 3013; Gaz. vol. 176; p. 546.
Linegar, Thomas F. (See Tool, Linegar, and Williams.)
Linehan, John F., assignor to D. Saunders' Sons, Yonkers, N. Y. Reaming-tool holder for pipe-machines. No. 1,016,889; Feb. 6; Sp. p. 1437; Gaz. vol. 175; p. 224.
Lines, Jesse, Sabetha, Kans. Display-cabinet. No. 1,041,497; Oct. 15; Gaz. vol. 183; p. 681.
Lines, Jesse, Sabetha, Kans. Combined shipping-case and display-cabinet. No. 1,042,935; Oct. 29; Gaz. vol. 183; p. 1235
Lines, Virden, La Fontaine, Ind. Insect-catcher. No. 1,043,240; Nov. 5; Gaz. vol. 184; p. 68.
Lines, William H., Ansonia, Conn. Loading apparatus. No. 1,028,576; June 4; Sp. p. 1120; Gaz. vol. 179; p. 170.
Liney, Percy L., Gunnersbury, England. Tin, canister, and similar receptacle. No. 1,040,707; Oct. 8; Gaz. vol. 183; p. 385.
Lingo, Louis J., Jr., assignor of one-half to R. W. Smith, Wilmington, Del. System of motor control. No. 1,016,754; Feb. 6; Sp. p. 1159; Gaz. vol. 175; p. 179.
Lingwall, Peter, Jr., Stratford, Iowa. Gate. No. 1,021,613; Mar. 26; Sp. p. 5548; Gaz. vol. 176; p. 996.
Linha, Frank, Minot, N. D. Flax and other grain attachment for harvesters. No. 1,023,113; Apr. 9; Sp. p. 2891; Gaz. vol. 177; p. 492.
Link-Belt Company. (See Fry, Charles A., assignor.)
Link-Belt Company. (See Hayward, Henry E., assignor.)
Link-Belt Company. (See Peck, Staunton B., assignor.)
Link-Belt Company. (See Pratt, Howell D., assignor.)
Link-Belt Company. (See Rapp, Axel G. J., assignor.)
Link Fabric Company of America. (See Mellon, George A., assignor.)
Link, Vincent, assignor, by mesne assignments, to Packard Motor Car Company, Detroit Mich. Centrifugal governor. No. 1,041,643; Oct. 15; Gaz. vol. 183; p. 728.
Linkmeyer, Carl R., Bremen, Germany. Manufacturing fine artificial threads. No. 1,022,097; Apr. 2; Sp. p. 729; Gaz. vol. 177; p. 116.
Linn, James W., Oregon City, Oreg. Motor-truck. No. 1,045,992; Dec. 3; Gaz. vol. 185; p. 66.
Linn, Scott W. (See Newhall, Linn, and Hezlep.)
Linnemann, Otto, Ironwood, Mich. Drafting device. No. 1,044,461; Nov. 12; Gaz. vol. 184; p. 523.
Linograph Manufacturing Company, The. (See Petersen, Hans, assignor.)
Linon, Ivan, Ensival, Belgium. Prevention of double threads and intertwining in spinning-frames. No. 1,040,224; Oct. 1; Gaz. vol. 183; p. 185.
Linotype and Machinery Limited. (See Pearce and Parker, assignors.)
Linquist, William A., Minneapolis, Minn. Automobile-fender and coöperating device. No. 1,033,425; July 23; Gaz. vol. 180; p. 1005.
Linscott, Murray O., and W. A. McIntosh, Beverly, Mass. Hydrant-outlet. No. 1,020,917; Mar. 19; Sp. p. 4049; Gaz. vol. 176; p. 708.
Linsmeyer, Johann A., Vienna, Austria-Hungary. Aerial torpedo. No. 1,038,400; Sept. 10; Gaz. vol. 182; p. 444.
Linstrom, Nicholas A., *et al.* (See Adams, Edwin L., assignor.)
Lint, Peter H., Berkeley, Cal. Fruit-gatherer. No. 1,035,613; Aug. 13; Gaz. vol. 181; p. 441.
Lintern, William, assignor of one-half to The Nichols-Lintern Company, Cleveland, Ohio. Ventilator. No. 1,024,861; Apr. 30; Sp. p. 6718; Gaz. vol. 177; p. 1183.
Linxweiler, Elmer L., near Allison, Colo. Irrigating-conduit. No. 1,043,118; Nov. 5; Gaz. vol. 184; p. 25.
Liolios, Stephanos, Charleston, Mo. Counter and heel-support. No. 1,044,548; Nov. 19; Gaz. vol. 184; p. 584.
Lion, Albert, assignor to E. Rosenfeld & Co., Baltimore, Md. Making neckbands. No. 1,031,011; July 2; Gaz. vol. 180; p. 57.
Lion, Albert, assignor to E. Rosenfeld & Co., Baltimore, Md. Neckband. No. 1,032,554; July 16; Gaz. vol. 180; p. 672.
Lion Machine Company. (See Terteling, Theodore B., assignor.)
Lipetz, Alphons, Orenburg, Russia. Thermolocomotive. No. 1,047,129; Dec. 10; Gaz. vol. 185; p. 500.
Lipmann, Ernest D., Paris, France. Luminous dial. No. 1,017,896; Feb. 20; Sp. p. 3714; Gaz. vol. 175; p. 646.
Lipp, George, Allen, Nebr. Whip-lock. No. 1,029,073; June 11; Sp. p. 2172; Gaz. vol. 179; p. 374.
Lippert, Edward. (See Jones and Lippert.)
Lippert, Henry, Clairton, Pa. Rail-joint. No. 1,037,501; Sept. 3; Gaz. vol. 182; p. 111.
Lippincott, Fisher H., assignor to A. H. & F. H. Lippincott, Inc., Philadelphia, Pa. Soda-fountain. No. 1,024,515; Apr. 30; Sp. p. 5945; Gaz. vol. 177; p. 1061.
Lippincott, Fisher H., assignor to A. H. & F. H. Lippincott, Inc., Philadelphia, Pa. Faucet. No. 1,032,073; July 9; Gaz. vol. 180; p. 464.
Lippincott, Robert E., assignor to C. H. Burleigh, Worcester, Mass. Automatic exhibition mechanism. No. 1,031,857; July 9; Gaz. vol. 180; p. 393.
Lippke, John H., Waterbury, R. M. Babin, Oakville, and J. Miserez, Waterville, Conn. Sheet-metal box. No. 1,036,284; Aug. 20; Gaz. vol. 181; p. 709.

Alphabetical list of patentees—Continued.

Lipps, Louis P., assignor of one-half to himself, trustee, one-fourth to W. L. Westcott, and one-fourth to G. C. Wing, Cleveland, Ohio. Arranging tickets for street-cars. No. 1,017,007; Feb. 13; Sp. p. 1726; Gaz. vol. 175; p. 301.
Lipscomb, David T. and G. F., Junior, W. Va.; said G. F. Lipscomb assignor to said David T. Lipscomb. Ash-pan. No. 1,037,273; Sept. 3; Gaz. vol. 182; p. 32.
Lipscomb, Gilbert F. (See Lipscomb, David T. and G. F.)
Lipscomb, Sylvester G., Louisville, assignor to J. M. Jones, Elizabethtown, Ky. Wrapper-folding machine. No. 1,042,577; Oct. 29; Gaz. vol. 183; p. 1112.
Lipson, Samuel, Saugus, asignor of one-third to H. Rosenburg and one-third to J. Rosenburg, Boston, Mass. Garment-cementing machine. No. 1,039,681; Sept. 24; Gaz. vol. 182; p. 939.
Liquid Carbonic Company, The. (See Smith, Horace M., assignor.)
Lisch, Jacob J., assignor of one-half to F. J. Geverts and one-half to K. McCann, Bellevue, Ky. Governor. No. 1,039,151; Sept. 24; Gaz. vol. 182; p. 752.
Lishman, John J. (See Whidbourne and Lishman.)
Lisk Manufacturing Company, The, *et al.* (See Pritchard, Albert R., assignor.)
Liska, Adam. (See Scott and Liska.)
Lispenard, George, assignor to S. K. Lichtenstein, trustee, New York, N. Y. Cotton-harvester. No. 1,041,309; Oct. 15; Gaz. vol. 183; p. 620.
Lissak, Ormond M., Cleveland, Ohio, assignor, by mesne assignments, to The Automatic Arms Company. Latch for rotary magazines. No. 1,042,241; Oct. 22; Gaz. vol. 183; p. 968.
List, Adolph, and W. A. De Maine, Cape Girardeau, Mo. Collapsible crate. No. 1,023,577; Apr. 16; Sp. p. 3879; Gaz. vol. 177; p. 683.
List, Henry J., San Francisco, Cal. Aeroplane. No. 1,034,718; Aug. 6; Gaz. vol. 181; p. 106.
List, Paul G., Tübingen, and G. Schmidt, assignors to I. Simon & Dürkheim, Offenbach-on-the-Main, Germany. Hydrocarbon soap and making same. No. 1,040,708; Oct. 8; Gaz. vol. 183; p. 385.
Lister, Charles H., North St. Paul, Minn. Casting-machine. No. 1,033,254; July 23; Gaz. vol. 180; p. 949.
Lister, Charles H., St. Paul, assignor to Minnesota Manufacturers Association, Minneapolis, Minn. Automatic loader for lift-carriers. No. 1,021,876; Apr. 2; Sp. p. 270; Gaz. vol. 177; p. 43.
Lister, Levi H., Bay St. Louis, assignor of one-half to W. H. Bouslog, Gulfport, Miss. Refrigerating apparatus. No. 1,042,015; Oct. 22; Gaz. vol. 183; p. 893.
Lister, Nicholas E., West St. John, New Brunswick, assignor of twenty-four one-hundredths to J. S. Clark, St. George, and twenty-four one-hundredths to G. H. Waring, St. John, Canada. Flanger for railways. No. 1,019,811; Mar. 12; Sp. p. 1728; Gaz. vol. 176; p. 302.
Liston, James R., Pacific Beach, Cal. Propeller. No. 1,030,900; July 2; Gaz. vol. 180; p. 17.
Liston, James R., assignor to R. Liston, San Diego, Cal. Wind-wheel. No. 1,015,695; Jan. 23; Sp. p. 5753; Gaz. vol. 174; p. 980.
Liston, Ralph. (See Liston, James R., assignor.)
Litaker, Thomas F., assignor to Rotary Disc Bit Co., Incorporated, Fellows, Cal. Drill. No. 1,046,615; Dec. 10; Gaz. vol. 185; p. 324.
Litch, Lemuel W., Lynn, Mass. Corset-steel reinforcer. No. 1,024,087; Apr. 23; Sp. p. 4965; Gaz. vol. 177; p. 879.
Litchfield, Herbert L., Southbridge, Mass. Shuttle-threader. No. 1,047,957; Dec. 24; Gaz. vol. 185; p. 850.
Litherbury, Nina J. (See Bell, Nina J.)
Litle, Thomas J., Jr., Woodbury, assignor to Welsbach Light Company, Gloucester City, N. J. Globe or shade for incandescent gas-lamps. No. 1,013,668; Jan. 2; Sp. p. 1277; Gaz. vol. 174; p. 200.
Litle, Thomas J., Jr, Woodbury, assignor to Welsbach Light Company, Gloucester City, N. J. Globe-holder for lamps. No. 1,031,012; July 2; Gaz. vol. 180; p. 57.
Litle, Thomas J., Jr., Woodbury, assignor to Welsbach Light Company, Gloucester City, N. J. Incandescent gas-lamp. No. 1,031,013; July 2; Gaz. vol. 180; p. 57.
Litle, Thomas J., Jr., Woodbury, assignor to Welsbach Light Company, Gloucester City, N. J. Incandescent lamp. No. 1,031,014; July 2; Gaz. vol. 180; p. 58.
Litle, Thomas J., Jr., Woodbury, assignor to Welsbach Light Company, Gloucester City, N. J. Incandescent gas-lamp. No. 1,031,128; July 2; Gaz. vol. 180; p. 99.
Litle, Thomas J., Jr., Woodbury, assignor to Welsbach Light Company, Gloucester City, N. J. Gas-lighting device. No. 1,047,095; Dec. 10; Gaz. vol. 185; p. 487.
Litle, Thomas J., Jr., Woodbury, assignor to Welsbach Light Company, Gloucester City, N. J. Electric gas-cock. No. 1,047,907; Dec. 17; Gaz. vol. 185; p. 805.
Litmer, Joseph. (See Vanderali and Litmer.)
Litsey, Robert L., Seattle, Wash. Combined policeman's club and light. No. 1,018,358; Feb. 20; Sp. p. 4671; Gaz. vol. 175; p. 803.
Litt, George O., Dayton, Ohio. Razor. No. 1,044,671; Nov. 19; Gaz. vol. 184; p. 628.
Littauer, Lucius N. (See Weis, John P., assignor.)
Little, Arthur R., Stockton, Cal. Portable steam or hot-water radiator. No. 1,039,976; Oct. 1; Gaz. vol. 183; p. 102.
Little, Elmer. (See Kollenberg, Frederick G., assignor.)
Little, Horace O. (See Lloyd-Horry, Alfred, assignor.)
Little, James E. (See Turner, Drake, and Little.)
Little, John, Camberwell, Victoria, assignor to Woods-Gilbert Rail Planer Company Limited, Melbourne, Australia. Machine for planing rails upon their tracks. No. 1,025,754; May 7; Sp. p. 1425; Gaz. vol. 178; p. 223.
Little, Leo T., Homestead, Pa. Jaw-brace. No. 1,044,206; Nov. 12; Gaz. vol. 184; p. 437.
Little, Luur E. (See Little, Minnie P. and L. E.)
Little, Minnie P. and L. E., Columbia, Mo. Burial-casket. No. 1,026,044; May 14; Sp. p. 2086; Gaz. vol. 178; p. 357.
Little, Robert H., Chicago, Ill. Type-casting machine. No. 1,033,024; July 16; Gaz. vol. 180; p. 831.
Little, Walter D., *et al.* (See Little, William A., assignor.)
Little, William A., Cresson, Pa. Folding umbrella. No. 1,039,977; Oct. 1; Gaz. vol. 183; p. 103.
Little, William A., assignor of one-third to W. D. Little and one-third to W. A. McGuire, Cresson, Pa. Wrench. No. 1,029,074; June 11; Sp. p. 2173; Gaz. vol. 179; p. 374.
Littlefield, Augustine F., Lynn, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Starting and stopping mechanism. No. 1,048,840; Dec. 31; Gaz. vol. 185; p. 1188.
Littlefield, George H. (See Carney, George A., assignor.)
Littleton, Alexander S., Erie, Pa. Electrically-actuated automatic train-stopping mechanism. No. 1,043,017; Oct. 29; Gaz. vol. 183; p. 1263.
Littleton, Henry, Maricopa, Cal. Burner. No. 1,014,496; Jan. 9; Sp. p. 3089; Gaz. vol. 174; p. 513.
Littleton, Henry, Maricopa, Cal. Burner. No. 1,031,278; July 2; Gaz. vol. 180; p. 152.
Littman, Zeno, New York, N. Y. Tool-handle. No. 1,045,047; Nov. 19; Gaz. vol. 184; p. 759.
Litzenberg, William R., Portland, Oreg. Dirt-loader. No. 1,018,672; Feb. 27; Sp. p. 5438; Gaz. vol. 175; p. 943.
Lively, Robert H., assignor of one-half to A. W. Schooley, Okarche, Okla. Rail-joint. No. 1,041,823; Oct. 22; Gaz. vol. 183; p. 828.
Livengood, Winfield S., Kansas City, Mo. Baling-press. No. 1,032,616; July 16; Gaz. vol. 180; p. 693.
Livermon, Carl R., Roxobel, N. C. Peanut-threshing device. No. 1,049,244; Dec. 31; Gaz. vol. 185; p. 1325.
Livermore, Arthur C., Edgewood Park, assignor to The Union Switch & Signal Company, Swissvale, Pa. Apparatus for controlling the passage of vehicles along a railway. No. 1,039,418; Sept. 24; Gaz. vol. 182; p. 847.
Livermore, Arthur C., Edgewood Park, assignor to The Union Switch & Signal Company, Swissvale, Pa. Dash-pot. No. 1,039,555; Sept. 24; Gaz. vol. 182; p. 895.
Livermore Pay Station Company. (See Flagg and Livermore, assignors.)
Livermore, Walter H. (See Flagg and Livermore.)
Livezey, Samuel S., Bowling Green, Ohio. Wire-working device. No. 1,034,262; July 30; Gaz. vol. 180; p. 1317.
Livingston, D McRa, New York, N. Y. Forming angular corrugations in sheet material. No. 1,018,399; Feb. 20; Sp. p. 4783; Gaz. vol. 175; p. 818.
Livingston, Frank S., Los Angeles, Cal. Grate. No. 1,030,002; June 18; Sp. p. 4211; Gaz. vol. 179; p. 730.
Livingston, Fremont P., Denver, Colo., assignor to The Westinghouse Air Brake Company, Pittsburgh, Pa. Automatic track-sanding device. No. 1,015,899; Jan. 30; Sp. p. 6177; Gaz. vol. 174; p. 1077.
Livingston, Harry E., Smithville, Ga. Doubletree. No. 1,028,038; May 28; Sp. p. 6471; Gaz. vol. 178; p. 1107.
Livingston, Henry S. (See Lynch, Thomas J., assignor.)
Livingston, John B., New Haven, Conn. Percolator. No. 1,017,222; Feb. 13; Sp. p. 2222; Gaz. vol. 175; p. 377.
Livingston, John W., assignor of one-half to J. Noble, Livingston, Wis. Pneumatic wheel. No. 1,013,554; Jan. 2; Sp. p. 1010; Gaz. vol. 174; p. 162.
Livingston Manufacturing Company. (See Padbury, John J., assignor.)
Livingston, Richard, Los Angeles, Cal. Tire traction device. No. 1,042,016; Oct. 22; Gaz. vol. 183; p. 894.
Livingston, S. P. (See Hearest, Joshua G., assignor.)
Livtschak, Josef, St. Petersburg, Russia. Rifle-trying device. No. 1,042,357; Oct. 22; Gaz. vol. 183; p. 1005.
Ljunggren, Carl J., Providence, R. I. Hygienic chalice. No. 1,028,752; June 4; Sp. p. 1480; Gaz. vol. 179; p. 229.
Ljunggren, Carl J., Providence, R. I. Hygienic chalice. No. 1,031,858; July 9; Gaz. vol. 180; p. 393.
Ljungkrantz, Hilding, assignor of one-half to J. E. Valentine, Long Island City, N. Y. Volumetric apparatus for liquids. No. 1,032,555; July 16; Gaz. vol. 180; p. 673.
Ljungström, Birger, assignor to Aktiebolaget Ljungströms Ångturbin, Stockholm, Sweden. Radial turbine. No. 1,014,659; Jan. 16; Sp. p. 3501; Gaz. vol. 174; p. 600.

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Ljungström, Birger, assignor to Aktiebolaget Ljungstroms Angturbin, Stockholm, Sweden. Manufacturing vane-rings for gas or steam turbines. No. 1,042,358; Oct. 22; Gaz. vol. 183; p. 1005.
Llewellyn Iron Works. (See Michod, Charles L., assignor.)
Llobet, Miguel, Barcelona, Spain. Self-acting water-balance. No. 1,030,099; June 18; Sp. p. 4429; Gaz. vol. 179; p. 765.
Lloyd, Cecil E., assignor to O. E. Searle, Pensacola, Fla. Film-feeder for moving-picture machines. No. 1,031,129; July 2; Gaz. vol. 180; p. 99.
Lloyd, Edwin M., assignor of one-half to T. H. Ball, San Jose, Cal. Burner attachment. No. 1,035,455; Aug. 13; Gaz. vol. 181; p. 387.
Lloyd, Ernest F., Detroit, Mich. Pressure-increaser. No. 1,014,830; Jan. 16; Sp. p. 3885; Gaz. vol. 174; p. 659.
Lloyd, George H., Eastbourne, and H. D. L. Lloyd, Birmingham, England. Construction of tanks and the like. No. 1,033,913; July 30; Gaz. vol. 180; p. 1194.
Lloyd, Henry, Lexington, Ky. Riveting-machine. No. 1,020,918; Mar. 19; Sp. p. 4051; Gaz. vol. 176; p. 708.
Lloyd, Henry D. L. (See Lloyd, George H. and H. D. L.)
Lloyd-Horry, Alfred, assignor of one-half to H. O. Little, San Francisco, Cal. Silencer. No. 1,031,943; July 9; Gaz. vol. 180; p. 422.
Lloyd, John U., Cincinnati, Ohio. Alkaloidal substance. No. 1,048,711; Dec. 31; Gaz. vol. 185; p. 1144.
Lloyd, John U., Cincinnati, Ohio. Extracting, purifying, or excluding alkaloids and alkaloidal salts. No. 1,048.712; Dec. 31; Gaz. vol. 185; p. 1144.
Lloyd-Jones, Horatio O., Winnipeg, Manitoba, Canada. Pipe-line coupling. No. 1,026,686; May 21; Sp. p. 3514; Gaz. vol. 178; p. 612.
Lloyd, Marshall B., assignor to Automatic Welding Company, Menominee, Mich. Continuous process of manufacturing metal tubes. No. 1,027,864; May 28; Sp. p. 6093; Gaz. vol. 178; p. 1050.
Lloyd, Marshall B., assignor to Automatic Welding Company, Menominee, Mich. Continuous tube-mill. No. 1,027,865; May 28; Sp. p. 6106; Gaz. vol. 178; p. 1051.
Lloyd, Marshall B., assignor to Automatic Welding Company, Menominee, Mich. Manufacturing metal tubes. No. 1,028,039; May 28; Sp. p. 6472; Gaz. vol. 178; p. 1108.
Lloyd, Richard L. (See Dwight and Lloyd.)
Lloyd, William, Drifton, Pa. Mine-car. No. 1,047,894; Dec. 17; Gaz. vol. 185; p. 800.
Lobb, Una, Philadelphia, Pa. Device for removing eyes from potatoes, pineapples, &c. No. 1,038,164; Sept. 10; Gaz. vol. 182; p. 364.
Lobenstein, Mack L., assignor of one-half to T. L. Walton, Houston, Tex. Show-case. No. 1,033,331; July 23; Gaz. vol. 180; p. 974.
Lobnitz, Fred, Crookston, Scotland. Suction-dredger. No. 1,013,669; Jan. 2; Sp. p. 1279; Gaz. vol. 174; p. 200.
Lobnitz, Fred, Crookston, Scotland. Navigable rock-cutter. No. 1,018,917; Feb. 27; Sp. p. 5952; Gaz. vol. 175; p. 1025.
Lobnitz, Fred, Renfrew, Scotland. Lubricating device. No. 1,020,210; Mar. 12; Sp. p. 2572; Gaz. vol. 176; p. 436.
Lobsitz, Albert H. (See Howard and Lobsitz.)
Locher, Charles H., Glasgow, Va. Rock-drill. No. 1,018,834; Feb. 27; Sp. p. 5785; Gaz. vol. 175; p. 999.
Lochhead, Andrew, San Francisco, Cal. Door-securer. No. 1,033,255; July 23; Gaz. vol. 180; p. 949.
Lochner, David, Woodburn, Ind. Display-cabinet. No. 1,014,158; Jan. 9; Sp. p. 2374; Gaz. vol. 174; p. 397.
Lochner, Ellanora D., Brooklyn, N. Y. Refrigerator. No. 1,030,668; June 25; Sp. p. 5879; Gaz. vol. 179; p. 1005.
Lock Joint Pipe Company. (See Meriwether, Coleman, assignor.)
Lock, Otto, Philadelphia, Pa. Dish-washer. No. 1,042,242; Oct. 22; Gaz. vol. 183; p. 968.
Lockard, Arthur W., Baltimore, Md. Electric sealing-wax machine. No. 1,018,977; Feb. 27; Sp. p. 6091; Gaz. vol. 175; p. 1048.
Lockard, Earl T., Cincinnati, Ohio. Electric switch. No. 1,021,540; Mar. 26; Sp. p. 5407; Gaz. vol. 176; p. 973.
Locke, Bradford H., assignor to Locke Tile Drill Company, New York, N. Y. Drill-stand. No. 1,048,841; Dec. 31; Gaz. vol. 185; p. 1189.
Locke, Edward, Cliftondale, Mass. Conveying apparatus. No. 1,015,570; Jan. 23; Sp. p. 5476; Gaz. vol. 174; p. 937.
Locke, Lydia E., Cleveland, Ohio. Spring-clamp. No. 1,045,860; Dec. 3; Gaz. vol. 185; p. 22.
Locke Mfg. Co. (See Locke, William H., assignor.)
Locke, Nathaniel C., Salem, Mass., assignor of two-thirds to T. French, Rumford, Me. Indicator. No. 1,038,770; Sept. 17; Gaz. vol. 182; p. 608.
Locke Regulator Company. (See Kimball, James L., assignor.)
Locke, Sylvanus D., Bridgeport, Conn. Metal-straightening machine. No. 1,042,131; Oct. 22; Gaz. vol. 183; p. 931.
Locke Tile Drill Company. (See Locke, Bradford H., assignor.)
Locke, William H., assignor to Locke Mfg. Co., Huntington, W. Va. Injector. No. 1,032,222; July 9; Gaz. vol. 180; p. 515.
Locke, William S., Los Angeles, Cal. Plunger. No. 1,026,873; May 21; Sp. p. 3923; Gaz. vol. 178; p. 676.
Lockett, Frank, Meno, Okla. Cultivator attachment. No. 1,043,119; Nov. 5; Gaz. vol. 184; p. 25.
Lockett, George H. (See McDonald and Lockett.)
Lockhart, A. E. (See Crosby, Robert E. L., assignor.)
Lockhart, George, New York, N. Y. Elevator-lock. No. 1,023,159; Apr. 16; Sp. p. 3041; Gaz. vol. 177; p. 545.
Locklin, George C., Hammond, Ind. Bed-spring. No. 1,041,310; Oct. 15; Gaz. vol. 183; p. 620.
Lockling Improved Automatic Passenger Fare Registering Company, Paul P. (See Lockling and Parker, assignors.)
Lockling, Paul P., Fruitdale, and J. F. Parker, assignors to P. P. Lockling Improved Automatic Passenger Fare Registering Company, Mobile, Ala. Automatic fare-register. No. 1,044,402; Nov. 12; Gaz. vol. 184; p. 504.
Lockwood, Alfred A., Honor Oak, assignor to Turbo Amalgamator and Extraction Company, Limited, London, England. Amalgamating apparatus. No. 1,043,611; Nov. 5; Gaz. vol. 184; p. 201.
Lockwood, Alfred A., assignor to Murex Magnetic Company, Limited, London, England. Separating ores. No. 1,043,850; Nov. 12; Gaz. vol. 184; p. 314.
Lockwood, Alfred A., assignor to Murex Magnetic Company, Limited, London, England. Separating ores, &c. No. 1,043,851; Nov. 12; Gaz. vol. 184; p. 314.
Lockwood, Arthur R., Spokane, Wash. Electric fixture. No. 1,039.556; Sept. 24; Gaz. vol. 182; p. 896.
Lockwood, Burns D., Bellevue, assignor to Pressed Steel Car Company, Pittsburgh, Pa. Journal-box pedestal. No. 1,029,619; June 18; Sp. p. 3362; Gaz. vol. 179; p. 598.
Lockwood, Charles S., Newark, assignor to Hyatt Roller Bearing Company, Harrison, N. J. Spring-lock for adjustable casings of roller-bearings. No. 1,018,121; Feb. 20; Sp. p. 4206; Gaz. vol. 175; p. 723.
Lockwood, Charles S., Newark, assignor to Hyatt Roller Bearing Company, Harrison, N. J. Collared spirally-wound roll. No. 1,029,075; June 11; Sp. p. 2175; Gaz. vol. 179; p. 374.
Lockwood, Edwin F. and H. A., Bellevue, Ky. Baker's pan. No. 1,047,256; Dec. 17; Gaz. vol. 185; p. 575.
Lockwood, Frederick J., Newark, N. J., assignor to The J. H. Ladew Company. Self-dumping paddle-wheel. No. 1,041,119; Oct. 15; Gaz. vol. 183; p. 554.
Lockwood, Harry A. (See Lockwood, Edwin F. and H. A.)
Lockwood, Marquis H., assignor to Underwood Typewriter Company, New York, N. Y. Type-writer tabulating mechanism. No. 1,017,301; Feb. 13; Sp. p. 2374; Gaz. vol. 175; p. 404.
Lockwood, Marquis H., assignor to Underwood Typewriter Company, New York, N. Y. Type-writer escapement mechanism. No. 1,019,328; Mar. 5; Sp. p. 725; Gaz. vol. 176; p. 113.
Lockwood, Marquis H., assignor to Underwood Typewriter Company, New York, N. Y. Type-writer ribbon-carrier. No. 1,027,488; May 28; Sp. p. 5272; Gaz. vol. 178; p. 924.
Lockwood, William F., and J. E. Thompson, Hollis, Okla. Rail-chair. No. 1,033,332; July 23; Gaz. vol. 180; p. 975.
Lockyer, John C., and J. P. Frank, Dayton, Ohio. Controlling means for transmission mechanism. No. 1,043,445; Nov. 5; Gaz. vol. 184; p. 142.
Locomotive Equipment Company, The. (See Newcomb, Michael P., assignor.)
Locomotive Equipment Company. (See Reed, Milton E., assignor.)
Locomotive Recording Dynamometer Company. (See Phillips and Park, assignors.)
Locomotive Superheater Company. (See Vauclain, Samuel M., assignor.)
Locomotive Tender Frame Company. (See Howard, Clarence H., assignor.)
Locomotive Tender Frame Company, The. (See Pflager, Harry M., assignor.)
Locomotive Tender Frame Company. (See Westlake, Charles T., assignor.)
Lodge, Albert, Philadelphia, Pa. Driving mechanism for toy wagons and the like. No. 1,037,028; Aug. 27; Gaz. vol. 181; p. 993.
Lodge & Shipley Machine Tool Company, The. (See Chard, Nicholas D., assignor.)
Lodor, James C., Wilmington, N. C. Type-writer attachment. No. 1,048,979; Dec. 31; Gaz. vol. 185; p. 1236.
Loe, Charles W., Goree, Tex. Tongue-support for binders. No. 1,048,552; Dec. 31; Gaz. vol. 185; p. 1088.
Loe, James T. W., Marshall, Tex. Grain-doors for railway-cars. No. 1,025,283; May 7; Sp. p. 381; Gaz. vol. 178; p. 62.
Loe, Syver, Minneapolis, Minn., assignor of two-thirds to J. W. Walker, Pittsburgh, Pa. Multiplex voting-machine. No. 1,039,419; Sept. 24; Gaz. vol. 182; p. 847.
Loeb, Adam, Portland, Oreg. Food-preserving chest. No. 1,041,120; Oct. 15; Gaz. vol. 183; p. 555.
Loeb, Rudolf. (See Bourquin and Loeb.)

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Loebel, Henry E., Milwaukee, Wis. Scaffolding-bracket. No. 1,016,163; Jan. 30; Sp. p. 6724; Gaz. vol. 174; p. 1168.
Loedige, Frederick, assignor of one-half to E. H. Wade, Chicago. Ill. Journal-box lubricant device. No. 1,044,207; Nov. 12; Gaz. vol. 184; p. 437.
Loeffelholz Company. (See Seemann, August J., assignor.)
Loeffler, John H. (See Schneider, Loeffler, and Fleck.)
Loehler, Gustav G., Washington, D. C. Bottle-closure. No. 1,028,040; May 28; Sp. p. 6478; Gaz. vol. 178; p. 1108.
Loeling, Gerhard. (See Mills, Ernest H., assignor.)
Loerke, Anthony B., Menasha, Wis. Sausage-case turner. No. 1,038,912; Sept. 17; Gaz. vol. 182; p. 658.
Loew, Charles H., Lakewood, and A. Ruetschi, assignors to The Loew Manufacturing Company, Cleveland, Ohio. Pasteurizer. No. 1,017,777; Feb. 20; Sp. p. 3415; Gaz. vol. 175; p. 602.
Loew Manufacturing Company, The. (See Loew and Ruetschi, assignors.)
Loewenberg, Alfred, Chicago, Ill. Meter for measuring electrical currents. No. 1,020,565; Mar. 19; Sp. p. 3310; Gaz. vol. 176; p. 591.
Loewenstein, Felix. (See Jirotka, Bohumil, assignor.)
Loewenstein, Louis C., Lynn, Mass., assignor to General Electric Company. Governor. No. 1,017,571; Feb. 13; Sp. p. 2937; Gaz. vol. 175; p. 496.
Loewenstein, Louis C., Lynn, Mass., and L. H. Dyer, Greenwich, Conn., assignors to General Electric Company. Elastic-fluid turbine. No. 1,041,121; Oct. 15; Gaz. vol. 183; p. 555.
Loewenstein, Louis C., Lynn, Mass., and L. H. Dyer, Greenwich, Conn., assignors to General Electric Company. Elastic-fluid turbine. No. 1,041,714; Oct. 15; Gaz. vol. 183; p. 753.
Loewenthal, Hugo, Buenos Aires, Argentina, assignor to Süddeutsche Drahtindustrie Aktiengesellschaft, Mannheim-Waldhof, Germany. Stay for wire fences. No. 1,023,258; Apr. 16; Sp. p. 3244; Gaz. vol. 177; p. 580.
Loewenthal, Oscar R., Vancouver, British Columbia, Canada. Insectifuge. No. 1,029,203; June 11; Sp. p. 2460; Gaz. vol. 179; p. 419.
Loewer, John C., assignor of one-half to F. Browalski, Worden, Ill. Railway-tie. No. 1,041,498; Oct. 15; Gaz. vol. 183; p. 682.
Loewy, Alfred, Berlin, Germany. Rupture-truss. No. 1,045,574; Nov. 26; Gaz. vol. 184; p. 972.
Loewy, Edwin J., New York, assignor of one-half to G. W. Weiss, Brooklyn, N. Y. Wrapping-machine. No. 1,047,422; Dec. 17; Gaz. vol. 185; p. 634.
Loewy, Heinrich, Berlin, Germany. Truss for umbilical hernia. No. 1,048,553; Dec. 31; Gaz. vol. 185; p. 1088.
Loffland, John M., Woodsfield, Ohio. Oil-well valve. No. 1,021,840; Apr. 2; Sp. p. 197; Gaz. vol. 177; p. 32.
Loffland, John M., Woodsfield, Ohio. Rail-joint. No. 1,021,841; Apr. 2; Sp. p. 197; Gaz. vol. 177; p. 33.
Lofgren, John G., Norway, Mich. Door check and closer. No. 1,013,788; Jan. 2; Sp. p. 1529; Gaz. vol. 174; p. 243.
Lofland, Thomas L., Kansas City, Kans. Nut-lock. No. 1,047,542; Dec. 17; Gaz. vol. 185; p. 677.
Löfquist, Hjalmar, Stockholm, Sweden. Electric water-heating device. No. 1,026,217; May 14; Sp. p. 2499; Gaz. vol. 178; p. 418.
Löfquist, Hjalmar, Stockholm, Sweden. Electric heating device for running water. No. 1,030,901; July 2; Gaz. vol. 180; p. 18.
Löfquist, Hjalmar, Stockholm, Sweden. Apparatus for drying clothes and other articles. No. 1,047,958; Dec. 24; Gaz. vol. 185; p. 850.
Lofthouse, Jacob M., and E. R. Booty, Perth, Western Australia, Australia. Carbureter. No. 1,025,816; May 7; Sp. p. 1551; Gaz. vol. 178; p. 245.
Loftin, Fred T., and G. W. Everett; said Everett assignor to L. K. Loftin, Indianapolis, Ind. Inserted-leaf holder for books and the like. No. 1,025,096; Apr. 30; Sp. p. 7197; Gaz. vol. 177; p. 1261.
Loftin, Lizzie K. (See Loftin and Everett, assignors.)
Lofton, Herbert M., Atlanta, Ga., assignor of one-half to J. W. Conway, Charlotte, N. C. Pneumatic water system for domestic purposes. No. 1,028,121; June 4; Sp. p. 56; Gaz. vol. 179; p. 13.
Lofton, Herbert M., E. E. Butler, Chattanooga, Tenn., and R. M. Hunter, Philadelphia, Pa. Pipe-hanger. No. 1,013,187; Jan. 2; Sp. p. 190; Gaz. vol. 174; p. 34.
Loftsgaarden, Albert T., Powell, Wyo. Spade and shovel. No. 1,046,616; Dec. 10; Gaz. vol. 185; p. 324.
Loftus, John, Albany, N. Y. Gas-engine. No. 1,022,686; Apr. 9; Sp. p. 1984; Gaz. vol. 177; p. 344.
Loftus, Nicholas. (See Proctor, Loftus, and Anderson.)
Loftus, Thomas J., Castella, assignor of one-half to H. Bell, Oakland, Cal. Cooling means for gasolene-engines. No. 1,040,709; Oct. 8; Gaz. vol. 183; p. 386.
Logan, Arthur. (See Logan, James B. and A.)
Logan, Charles, Jr., Yonkers, N. Y. Lock for pianos. No. 1,014,159; Jan. 9; Sp. p. 2375; Gaz. vol. 174; p. 397.
Logan, Charles E. (See Evans and Logan.)
Logan, Charles E., and A. R. Barnett, Mill Grove, Mo. Automatic device for attaching and detaching plow-points. No. 1,045,048; Nov. 19; Gaz. vol. 184; p. 759.
Logan, Crawford D., assignor of one-half to J. H. Dunn, Coal Hill, Ark. Switch. No. 1,028,041; May 28; Sp. p. 6480; Gaz. vol. 178; p. 1108.
Logan, George H., Braddock, Pa. Drum. No. 1,018,767; Feb. 27; Sp. p. 5649; Gaz. vol. 175; p. 976.
Logan, George W. (See Evans and Logan.)
Logan, Harry E., Wilkinsburg, Pa. Wrench. No. 1,036,501; Aug. 20; Gaz. vol. 181; p. 785.
Logan, James B. and A., South Greensburg, Pa. Switch-throwing device. No. 1,018,918; Feb. 27; Sp. p. 5953; Gaz. vol. 175; p. 1026.
Logan, Juna M. (See Logan, Lavalette L., assignor.) (Reissue.)
Logan, Juna M., *et al.*, administrators. (See Logan, Lavalette L.) (Reissue.)
Logan, Lavalette L., deceased, Robertsdale; J. M. Logan and W. P. Townsend, administrators, assignors to J. M. Logan, Falls township, Wyoming county, Pa. Car-handling apparatus. (Reissue.) No. 13,376; Feb. 27; Sp. p. 6194; Gaz. vol. 175; p. 1065.
Logan, Lavalette L., deceased, Robertsdale, assignor, by mesne assignments, to J. M. Logan, Falls township, Wyoming county, Pa. Car-handling apparatus. (Reissue.) No. 13,399; Apr. 9; Sp. p. 2906; Gaz. vol. 177; p. 493.
Logan, Marshall, Plymouth, Ind. Fence-post brace. No. 1,034,808; Aug. 6; Gaz. vol. 181; p. 138.
Logan, Philip A. (See Brewer, Thomas M., assignor.)
Logan, Ralph H., Allegheny, Pa. Cigar-machine. No. 1,027,553; May 28; Sp. p. 5402; Gaz. vol. 178; p. 947.
Logan, Thomas T. (See Baker, Charles L., assignor.)
Logan, William R., assignor of one-half to R. H. Ross, Los Angeles, Cal. Chicken feeder and exerciser. No. 1,019,975; Mar. 12; Sp. p. 2066; Gaz. vol. 176; p. 356.
Logee, William K. (See Harrington, Frank W., assignor.)
Logsdon, William M., and J. Dunbar, Cooperstown, Ill. Stock and poultry feeder. No. 1,049,111; Dec. 31; Gaz. vol. 185; p. 1282.
Loguin, Alexander J., West Allis, Wis., assignor to Allis-Chalmers Company. Motor-controller. No. 1,030,195; June 18; Sp. p. 4623; Gaz. vol. 179; p. 796.
Loguin, Alexander J., West Allis, Wis., assignor to Allis-Chalmers Company. Switch. No. 1,030,593; June 25; Sp. p. 5637; Gaz. vol. 179; p. 977.
Loguin, Alexander J., West Allis, Wis., assignor to Allis-Chalmers Company. Controller. No. 1,048,419; Dec. 24; Gaz. vol. 185; p. 1003.
Lohay, Charles G., Paris, France. Electrical controlling mechanism. No. 1,031,457; July 2; Gaz. vol. 180; p. 211.
Löhle, Karl, Zürich, Switzerland. Liquid-container. No. 1,044,672; Nov. 19; Gaz. vol. 184; p. 628.
Lohmann & Co., H. J. (See Lohmann, Herman J., assignor.)
Lohmann, Herman J., Jersey City, N. J., assignor to H. J. Lohmann & Co. Permeating protective for iron and steel articles. No. 1,039,978; Oct. 1; Gaz. vol. 183; p. 103.
Lohr, Harry S., *et al.* (See Blair, Robert F., assignor.)
Lohr, James G., *et al.* (See Blair, Robert F., assignor.)
Lohr, Ludwig, Philadelphia, Pa. Protector for window-cleaners. No. 1,017,982; Feb. 20; Sp. p. 3900; Gaz. vol. 175; p. 675.
Lohse, Henry, New York, N. Y. Autotruck-body. No. 1,019,062; Mar. 5; Sp. p. 107; Gaz. vol. 176; p. 20.
Lohse, Richard, Breslau, Germany. Fluid-meter. No. 1,025,633; May 7; Sp. p. 1186; Gaz. vol. 178; p. 182.
Loichot, Paul F. (See Warstler and Loichot.)
Loiseau, Edmond and G., Paris, France. Spring-link for bracelets or extensible chains. No. 1,037,274; Sept. 3; Gaz. vol. 182; p. 32.
Loiseau, Georges. (See Loiseau, Edmond and G.)
Lojacono, Francisco, San Juan, Porto Rico. Seed-planter. No. 1,032,617; July 16; Gaz. vol. 180; p. 693.
Lokken, Gustav, Badger, Minn. Grain-separator. No. 1,033,426; July 23; Gaz. vol. 180; p. 1006.
Lombard, Charles E., East Wilton, Me. Chemical fire-extinguisher. No. 1,043,120; Nov. 5; Gaz. vol. 184; p. 25.
Lombardi, Joseph J., New York, N. Y. Electric ignition device. No. 1,030,413; June 25; Sp. p. 5124; Gaz. vol. 179; p. 914.
Lomschakow, Alexei, St. Petersburg, Russia. Heat-exchange device. No. 1,048,186; Dec. 24; Gaz. vol. 185; p. 925.
London Electron Works Company Limited, The. (See Kardos, Emanuel, assignor.)
London, James A. (See London, Robert J. and J. A.)
London, Robert J. and J. A., Glen Allen, Mo. Photographic apparatus. No. 1,041,122; Oct. 15; Gaz. vol. 183; p. 555.
London, William J. A., Hartford, Conn. Turbine. No. 1,036,866; Aug. 27; Gaz. vol. 181; p. 939.
London, William J. A., assignor to The Terry Steam Turbine Company, Hartford, Conn. Steam-turbine. No. 1,021,541; Mar. 26; Sp. p. 5409; Gaz. vol. 176; p. 973.

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London, William J. A., assignor to The Terry Steam Turbine Company, Hartford, Conn. Steam-turbine packing-gland. No. 1,037,647; Sept. 3; Gaz. vol. 182; p. 158.
Londress, George, and W. Worley, Grafton, W. Va. Zinc-furnace. No. 1,048,420; Dec. 24; Gaz. vol. 185; p. 1003.
Long, A. L. (See Strawser, George A., assignor.)
Long, Adam A., Rochester, N. Y. Tire-tool. No. 1,025,987; May 14; Sp. p. 1950; Gaz. vol. 178; p. 337.
Long, Albert E., Brooklyn, N. Y. Vehicle. No. 1,017,983; Feb. 20; Sp. p. 3901; Gaz. vol. 175; p. 675.
Long, Albert R., Los Angeles, Cal. Carbureter. No. 1,042,017; Oct. 22; Gaz. vol. 183; p. 894.
Long, August, Bayonne, N. J. Automatic chemical air-lift. No. 1,045,157; Nov. 26; Gaz. vol. 184; p. 824.
Long, Benton J., and J. I. Keith, Finley, N. D. Fishing-tool. No. 1,015,198; Jan. 16; Sp. p. 4644; Gaz. vol. 174; p. 784.
Long, Bernard L., Mount Lebanon, Pa. Dumping-wheelbarrow. No. 1,032,009; July 9; Gaz. vol. 180; p. 443.
Long, Burton R., Pueblo, Colo. Pipe-coupling. No. 1,046,817; Dec. 10; Gaz. vol. 185; p. 395.
Long, Charles A., Spokane, Wash. Airship. No. 1,014,763; Jan. 16; Sp. p. 3723; Gaz. vol. 174; p. 634.
Long, Clarence M., Marion, Ohio. Window-tapping device. No. 1,018,625; Feb. 27; Sp. p. 5338; Gaz. vol. 175; p. 926.
Long, Clinton E. (See Long, Fred R. and C. E.)
Long, Edward H., Los Angeles, Cal. Signaling apparatus. No. 1,029,811; June 18; Sp. p. 3780; Gaz. vol. 179; p. 665.
Long, Eugene M., New York, N. Y. Automatic sprinkler-head. No. 1,026,687; May 21; Sp. p. 3516; Gaz. vol. 178; p. 613.
Long, Frank B., Los Angeles, Cal. Piano-key. No. 1,028,753; June 4; Sp. p. 1481; Gaz. vol. 179; p. 229.
Long, Frank B., Los Angeles, Cal. Piano sounding-board. No. 1,033,601; July 23; Gaz. vol. 180; p. 1064.
Long, Fred R. and C. E., Berwick, Pa. Puzzle. No. 1,032,290; July 9; Gaz. vol. 180; p. 539.
Long, George, London, England. Alarm-governor. No. 1,026,099; May 14; Sp. p. 2237; Gaz. vol. 178; p. 377.
Long, George A., Sturgis, Mich. Cooker. No. 1,024,213; Apr. 23; Sp. p. 5270; Gaz. vol. 177; p. 924.
Long, George A., assignor to The Gray Telephone Pay Station Company, Hartford, Conn. Telephone pay-station. No. 1,028,945; June 11; Sp. p. 1907; Gaz. vol. 179; p. 330.
Long, George S., Lodi, Cal. Cushion butt-plate for firearms. No. 1,042,132; Oct. 22; Gaz. vol. 183; p. 932.
Long, Henry C., Ottawa, Kans. Automatic wedge-bolt coupling. No. 1,030,902; July 2; Gaz. vol. 180; p. 18.
Long, James C., Goldthwaite, Tex. Stenographer's desk. No. 1,023,432; Apr. 16; Sp. p. 3579; Gaz. vol. 177; p. 636.
Long, James C., Goldthwaite, Tex. Stenographer's desk. No. 1,039,979; Oct. 1; Gaz. vol. 183; p. 103.
Long, John J., Norfolk, Va. Knockdown box. No. 1,022,098; Apr. 2; Sp. p. 731; Gaz. vol. 177; p. 117.
Long, John R., East Akron, Ohio. Pipe-cutter. No. 1,019,063; Mar. 5; Sp. p. 108; Gaz. vol. 176; p. 21.
Long, John R., East Akron, Ohio. Pipe-reamer. No. 1,038,913; Sept. 17; Gaz. vol. 182; p. 658.
Long, John R., East Akron, Ohio. Pipe-reaming machine. No. 1,038,914; Sept. 17; Gaz. vol. 182; p. 658.
Long, John R., Akron, Ohio, assignor of one-half to A. Roren, New York, N. Y. Means for forming concrete steps. No. 1,021,368; Mar. 26; Sp. p. 4999; Gaz. vol. 176; p. 913.
Long, John T., Encanto, Cal. Airship. No. 1,026,959; May 21; Sp. p. 4154; Gaz. vol. 178; p. 708.
Long, Joseph, Evansville, Ind. Kitchen-cabinet. No. 1,014,831; Jan. 16; Sp. p. 3887; Gaz. vol. 174; p. 659.
Long Mailing Machine Company. (See Long and Albrecht, assignors.)
Long Manufacturing Company. (See Todd, Frank, assignor.)
Long, Matthew T., Helena, Okla, assignor to The Standard Steel Tube Company, Toledo, Ohio. Wheel-hub. No. 1,013,188; Jan. 2; Sp. p. 192; Gaz. vol. 174; p. 34.
Long, Max F., Evanston, Wyo. Photographic-printing device. No. 1,040,710; Oct. 8; Gaz. vol. 183; p. 386.
Long, Nim R., Troy, Mo. Calculating-machine. No. 1,016,572; Feb. 6; Sp. p. 793; Gaz. vol. 175; p. 118.
Long, Robert E., New York, N. Y. Automobile-horn. No. 1,019,673; Mar. 5; Sp. p. 1459; Gaz. vol. 176; p. 225.
Long, Robert J., Fullerton, La. Faucet. No. 1,043,018; Oct. 29; Gaz. vol. 183; p. 1264.
Long, Robert W., and G. Buress, Indianapolis, Ind.; said Buress assignor to said Long. Starting device for internal-combustion engines. No. 1,038,401; Sept. 10; Gaz. vol. 182; p. 444.
Long, Sidney L. (See Brayer and Long.)
Long, Sidney L., Minneapolis, Minn. Device for stropping razors. No. 1,031,130; July 2; Gaz. vol. 180; p. 100.
Long, Sidney L., assignor of one-half to G. E. Young and F. B. Atwood, Minneapolis, Minn. Drilling-machine. No. 1,031,945; July 9; Gaz. vol. 180; p. 422.
Long, Sidney L., and G. J. Albrecht, assignors to Long Mailing Machine Company, Minneapolis, Minn. Envelop and card feeding mechanism. No. 1,032,556; July 16; Gaz. vol. 180; p. 673.
Long, William E., Lake Providence, La., assignor to E. C. Atkins & Company, Indianapolis, Ind. Cutter for rice-fields. No. 1,042,243; Oct. 22; Gaz. vol. 183; p. 968.
Long, Williard O., Mansfield, Ohio, assignor to Stoughton Wagon Company, Stoughton, Wis. Harrow attachment. No. 1,039,152; Sept. 24; Gaz. vol. 182; p. 752.
Longan, Silas W., Paris, Ky. Hot-water vessel. No. 1,043,612; Nov. 5; Gaz. vol. 184; p. 202.
Longden, Elmer E., Toledo, Ohio. Hair-cutting gage. No. 1,040,711; Oct. 8; Gaz. vol. 183; p. 387.
Longdon, Alexander P., Pittsburgh, assignor of one-fourth to A. A. Sloane and one-fourth to E. Longdon, Allegheny county, Pa. Broom-bundling machine. No. 1,037,781; Sept. 3; Gaz. vol. 182; p. 202.
Longdon, Mary E., *et al.* (See Longdon, Alexander P., assignor.)
Longenecker, Charles, Pittsburgh, Pa. Valve mechanism for furnaces. No. 1,017,159; Feb. 13; Sp. p. 2069; Gaz. vol. 175; p. 356.
Longest, William B., Louisville, Ky. Unit-compartment dumping-body. No. 1,013,789; Jan. 2; Sp. p. 1530; Gaz. vol. 174; p. 243.
Longfeather, Nicholas, Syracuse, N. Y. Composition for treating trees. No. 1,028,233; June 4; Sp. p. 381; Gaz. vol. 179; p. 54.
Longfellow, Martin W., assignor to The Baltimore Gas Appliance and Manufacturing Company, Baltimore, Md. Gas-range. No. 1,013,790; Jan. 2; Sp. p. 1532; Gaz. vol. 174; p. 243.
Longfellow, Martin W., and H. W. Hunter, assignors to The Baltimore Gas Appliance and Manufacturing Company, Baltimore, Md. Broiler. No. 1,045,049; Nov. 19; Gaz. vol. 184; p. 759.
Longino, Carrie W., *et al.*, heirs-at-law. (See Webb, Samuel J.)
Longworth, Melville L., Richmond, Va. Bracket. No. 1,024,997; Apr. 30; Sp. p. 6994; Gaz. vol. 177; p. 1229.
Lonsway, John J., Fostoria, Ohio. Corn harvester and shocker. No. 1,014,497; Jan. 9; Sp. p. 3091; Gaz. vol. 174; p. 514.
Lontz, John M. (See Brown, Levi, assignor.)
Lontz, John M. (See Brown and Lontz.)
Loock, August, Hayfield, Iowa. Resilient wheel. No. 1,035,367; Aug. 13; Gaz. vol. 181; p. 358.
Loog, Richard, Pforzheim, Germany. Expansible bracelet. No. 1,034,471; Aug. 6; Gaz. vol. 181; p. 23.
Loomis, Allen, assignor, by mesne assignments, to The Packard Motor Car Company, Detroit, Mich. Shock-absorber. No. 1,027,866; May 28; Sp. p. 6124; Gaz. vol. 178; p. 1051.
Loomis, Allen, assignor, by mesne assignments, to Packard Motor Car Company, Detroit, Mich. Slide-curtain support for vehicles. No. 1,045,861; Dec. 3; Gaz. vol. 185; p. 23.
Loomis, Harry T., assignor to Frank & Lambert, Inc., New York, N. Y. Display-box. No. 1,030,903; July 2; Gaz. vol. 180; p. 18.
Looms, George, Market Harborough, England. Toe case, puff, or the like for boots and shoes. No. 1,015,500; Jan. 23; Sp. p. 5326; Gaz. vol. 174; p. 913.
Looney, Richard T. (See Karhu, John, assignor.)
Looram, Matthew M., New York, N. Y. Receptacle. No. 1,014,601; Jan. 9; Sp. p. 3299; Gaz. vol. 174; p. 548.
Loose, George H., San Francisco, Cal. Aeroplane. No. 1,015,045; Jan. 16; Sp. p. 4361; Gaz. vol. 174; p. 732.
Loose-Wiles Biscuit Company. (See Lawrence, Edward E., assignor.)
Lorbeer, T. L. (See Walker, Napolean E., assignor.)
Lord, Allen P., C. A. Lindberg, and J. V. Flanigan, Bradford, Pa.; said Lord and Lindberg assignors to said Flanigan. Overhead trolley. No. 1,026,874; May 21; Sp. p. 3924; Gaz. vol. 178; p. 677.
Lord, Charles E., Milwaukee, Wis. System of control. No. 1,046,473; Dec. 10; Gaz. vol. 185; p. 274.
Lord, Chester B., St. Louis, Mo. Traction-wheel. No. 1,019,165; Mar. 5; Sp. p. 353; Gaz. vol. 176; p. 56.
Lord Manufacturing Company. (See Erickson, Frederic W., assignor.)
Lord, Peter, assignor of one-fourth to J. A. H. Hebert, one-eighth to G. Itzweire, and one-eighth to L. A. Delorme, Montreal, Quebec, Canada. Valve. No. 1,041,123; Oct. 15; Gaz. vol. 183; p. 555.
Lord, Peter, assignor of one-eighth to L. A. Delorme, one-fourth to J. A. H. Hebert, one-fourth to C. Leluau, and one-eighth to G. Itzweire, Montreal, Quebec, Canada. Gearing. No. 1,023,860; Apr. 23; Sp. p. 4469; Gaz. vol. 177; p. 801.
Lord, Peter, assignor of nine thirty-seconds to J. A. H. Hebert, five thirty-seconds to C. Leluau, five thirty-seconds to L. A. Delorme, and five thirty-seconds to G. Itzweire, Montreal, Canada. Gearing. No. 1,030,738; June 25; Sp. p. 6042; Gaz. vol. 179; p. 1029.

Alphabetical list of patentees—Continued.

Lord, Raymond S., Pittsburgh, Pa. Clamping device for pipe-joints. No. 1,019,717; Mar. 5; Sp. p. 1536; Gaz. vol. 176; p. 238.
Lord, Walter L. (See Ness, John M., assignor.)
Lorentzen, Hans B., Notodden, Norway. Electric furnace for smelting and reduction of ore. No. 1,030,904; July 2; Gaz. vol. 180; p. 18.
Lorenz, C. A. (See Eltner, Ernst, assignor.)
Lorenz, Edward H. (See Lorenz, William A. and E. H.)
Lorenz, William A., *et al.* (See Arkell, Bartlett, assignor.)
Lorenz, William A., *et al.* (See Merritt, Joseph, assignor.)
Lorenz, William A., Hartford, Conn., assignor to Union Paper Bag Machine Company, Philadelphia, Pa. Paper-bag machine. No. 1,029,700; June 18; Sp. p. 3549; Gaz. vol. 179; p. 627.
Lorenz, William A., Hartford, assignor, by mesne assignments, to The Noiseless Typewriter Company, Middletown, Conn. Type-writing machine. No. 1,046,205; Dec. 3; Gaz. vol. 185; p. 139.
Lorenz, William A., Hartford, Conn., assignor of one-half to Beech-Nut Packing Company, Canajoharie, N. Y., and one-fourth to W. H. Honiss, Hartford, Conn. Apparatus for mounting and dismounting flexible tubes. No. 1,037,159; Aug. 27; Gaz. vol. 181; p. 1036.
Lorenz, William A., Hartford, Conn., assignor of one-half to Arkell & Smiths, Canajoharie, N. Y., and one-half to The Union Paper Bag Machine Company, Philadelphia, Pa. Sheet separating and feeding machine. No. 1,048,713; Dec. 31; Gaz. vol. 185; p. 1144.
Lorenz, William A., assignor of one-fourth to said Lorenz, one-fourth to W. H. Honiss, Hartford, Conn., and one-half to Beech-Nut Packing Company, Canajoharie, N. Y. Slicing-machine. No. 1,049,245; Dec. 31; Gaz. vol. 185; p. 1326.
Lorenz, William A. and E. H., Hartford, Conn. Briqueting-machine. No. 1,023,433; Apr. 16; Sp. p. 3580; Gaz. vol. 177; p. 637.
Lorenz, William A., and J. Merritt, Hartford, Conn., assignors to Union Paper Bag Machine Company, Philadelphia, Pa. Paper-bag machine. No. 1,028,701; June 18; Sp. p. 3553; Gaz. vol. 179; p. 628
Lorenz, William A., and J. Merritt, Hartford, Conn., assignors to Union Paper Bag Machine Company, Philadelphia, Pa. Feed mechanism. No. 1,029,760; June 18; Sp. p. 3673; Gaz. vol. 179; p. 648.
Lorenzen, Christian, Harrow, England. Aerial machine. No. 1,044,064; Nov. 12; Gaz. vol. 184; p. 388.
Lorenzen, Frederick G., Chicago, Ill. Pearl-sago substitute and making the same from corn-starch. No. 1,024,214; Apr. 23; Sp. p. 5272; Gaz. vol. 177; p. 924.
Lorenzen, Jens N., Fremont, Ohio. Safety-razor. No. 1,024,348; Apr. 23; Sp. p. 5525; Gaz. vol. 177; p. 968.
Lorey, Joseph, San Quentin, assignor of one-half to L. Mordaunt, Los Angeles, Cal. Combination-padlock. No. 1,034,263; July 30; Gaz. vol. 180; p. 1318.
Lorey, Joseph, San Quentin, assignor of one-half to L. Mordaunt, Los Angeles, Cal. Handcuff. No. 1,038,492; Sept. 10; Gaz. vol. 182; p. 476.
Lori, Ferdinando, Padua, Italy. System of multiple and simultaneous telegraphy. No. 1,048,980; Dec. 31; Gaz. vol. 185; p. 1236.
Lorimer, George W., Piqua, Ohio, assignor, by mesne assignments, to Western Electric Company. Electrical contact-bank and making same. No. 1,019,166; Mar. 5; Sp. p. 354; Gaz. vol. 176; p. 56.
Lorimer, George W., Piqua, Ohio, assignor, by mesne assignments, to Western Electric Company. Automatic telephone-exchange. No. 1,020,211; Mar. 12; Sp. p. 2573; Gaz. vol. 176; p. 437.
Lorimer, George W., Piqua, Ohio, assignor, by mesne assignments, to Western Electric Company. Signal-transmitter for telephone-exchanges. No. 1,024,088; Apr. 23; Sp. p. 4966; Gaz. vol. 177; p. 879.
Lorimer, George W., Piqua, Ohio, assignor, by mesne assignments, to Western Electric Company. Coin-prepayment substation-telephone. No. 1,047,667; Dec. 17; Gaz. vol. 185; p. 722.
Lorimer, John H., Philadelphia, Pa. Vehicle-wheel tire. No. 1,014,075; Jan. 9; Sp. p. 2206; Gaz. vol. 174; p. 369.
Lorimer, William M., New Wilmington, and A. T. Ziegler, Pittsburgh, Pa.; said Ziegler assignor to said Lorimer. Sound-concentrator. No. 1,043,783; Nov. 5; Gaz. vol. 184; p. 258.
Lorimor, Alva A., Chama, N. Mex. Car-coupling. No. 1,025,071; Apr. 30; Sp. p. 7127; Gaz. vol. 177; p. 1252.
Lorin, Ernest, Doulaincourt, France. Gas-generator. No. 1,020,651; Mar. 19; Sp. p. 3501; Gaz. vol. 176; p. 618.
Loring, Benjamin C., assignor to J. Tillinghast, Providence, R. I. Track-sanding device. No. 1,040,554; Oct. 8; Gaz. vol. 183; p. 329.
Loring, Frederick H., London, England. Apparatus for the treatment of flour, semolina, and the like. No. 1,032,223; July 9; Gaz. vol. 180; p. 515.
Loring, Frederick H., London, England. Treatment of flour, semolina, and the like. No. 1,032,224; July 9; Gaz. vol. 180; p. 516.
Lory, Raoul. (See Etienne, Albert, assignor.)
Lory, Raoul, St. Benoît-sur-Loire, France. Gearing. No. 1,026,100; May 14; Sp. p. 2239; Gaz. vol. 178; p. 377.
Los Angeles Can Company *et al.* (See McCann, Lewis E., assignor.)
Los Angeles Rotary Gas Engine Company. (See Forbes, Thomas C., assignor.)
Los Angeles Trolley Catcher Company, The. (See Ricketts, James R., assignor.)
Losee, Joe S., *et al.* (See Ogle, Harley A., assignor.)
Loser, William, Portland, Oreg. Ball-valve for flushing-tanks. No. 1,041,824; Oct. 22; Gaz. vol. 183; p. 829.
Loshbough, Anthony W., Detroit, Mich. Chart for computing-scales. No. 1,028,946; June 11; Sp. p. 1908; Gaz. vol. 179; p. 330.
Lotbinière, Alair J. de, Srinagar, India. Tire-inflation indicator. No. 1,019,674; Mar. 5; Sp. p. 1462; Gaz. vol. 176; p. 225.
Loth, Nathan. (See Judis, Charles, assignor.)
Lotridge, Clinton A., West Point, Ark. Mail-bag deliverer. No. 1,037,942; Sept. 10; Gaz. vol. 182; p. 291.
Lotter, Franklin, Elkton, Mich. Beet-topper. No. 1,025,755; May 7; Sp. p. 1429; Gaz. vol. 178; p. 224.
Lottman, Max. (See Bacsardi, Stephen, assignor.)
Lotz, Samuel, Harrisburg, Pa. Rat-trap. No. 1,040,961; Oct. 8; Gaz. vol. 183; p. 467.
Lotz, William A., Newark, N. J., assignor to R. Neumann Hardware Co. Holding-catch for bag-frames. No. 1,032,010; July 9; Gaz. vol. 180; p. 444.
Lotzing, Otto, Brunswick, Germany. Jumping-wall. No. 1,028,234; June 4; Sp. p. 381; Gaz. vol. 179; p. 54.
Loub, Martin F., *et al.* (See Dorsey, James C. and W. W., assignors.)
Loubriat, Jean B., Aiseau, Belgium. Tongs for handling crucibles in glass and like furnace practice. No. 1,047,257; Dec. 17; Gaz. vol. 185; p. 575.
Louczynski, Walter, Detroit, Mich. Lock. No. 1,046,313; Dec. 3; Gaz. vol. 185; p. 180.
Louden, Henry W., Sr., Lebanon, Pa. Sausage-stuffing device. No. 1,043,241; Nov. 5; Gaz. vol. 184; p. 69.
Louden Machinery Company. (See Neller, Albert H., assignor.)
Louden, Robert B. (See Neller and Louden.)
Louder, Emanuel W., Southfork, Pa. Device for turning crank-pins. No. 1,042,578; Oct. 29; Gaz. vol. 183; p. 1112.
Lougee, Charles A., Newark, N. J. Cylinder for leather-shaving machines. No. 1,016,279; Feb. 6; Sp. p. 102; Gaz. vol. 175; p. 16.
Lougee, William S., assignor to J. Spaulding & Sons Company, Rochester, N. H. Shoe-form. No. 1,043,852; Nov. 12; Gaz. vol. 184; p. 314.
Loughead, Joseph B., assignor of one-eighth to G. M. Armour, New York, N. Y. Automatic fire-alarm. No. 1,018,509; Feb. 27; Sp. p. 5049; Gaz. vol. 175; p. 887.
Loughran, Thomas F., *et al.* (See Penfield, James C. and J. N., assignors.)
Loughren, James, Cranston, R. I. Hinge. No. 1,042,936; Oct. 29; Gaz. vol. 183; p. 1235.
Louis, Lawrence H., Alamosa, Colo. Ratchet die-stock. No. 1,021,155; Mar. 26; Sp. p. 4561; Gaz. vol. 176; p. 839.
Lounsberry, Rowe F., Sheridan, Wyo. Amalgamator. No. 1,048,714; Dec. 31; Gaz. vol. 185; p. 1145.
Lounsbery, Henry R., Jr., Katonah, N. Y. Lawn-mower. No. 1,041,124; Oct. 15; Gaz. vol. 183; p. 556.
Lourdel, Emile J., Rheims, France. Preserving the aroma of decorticated pulses. No. 1,046,314; Dec. 3; Gaz. vol. 185; p. 180.
Lourie, Herbert M. and H. S., Springfield, Ill. Hydraulic edge-grip tire-setter. No. 1,043,613; Nov. 5; Gaz. vol. 184; p. 202.
Lourie, Herbert S. (See Lourie, Herbert M. and H. S.)
Louvrier, François, Mexico, Mexico. Electric furnace. No. 1,013,189; Jan. 2; Sp. p. 194; Gaz. vol. 174; p. 35.
Lovato, Charles. (See Sobretto and Lovato.)
Love, Charles A., and J. P. Turner, Paris, Tenn. Truss. No. 1,019,501; Mar. 5; Sp. p. 1146; Gaz. vol. 176; p. 168.
Love, Dumont, Chicago, Ill. Train-speed computer and indicator. No. 1,014,832; Jan. 16; Sp. p. 3889; Gaz. vol. 174; p. 659.
Love, Robert, Syracuse, N. Y., assignor, by mesne assignments, to Deere & Company, Moline, Ill. Fifth-wheel for fertilizer-distributers. No. 1,019,064; Mar. 5; Sp. p. 109; Gaz. vol. 176; p. 21.
Love, Samuel P., and J. E. Parker, Trenton, Mo.; said Parker assignor to said Love. Molding-machine. No. 1,049,112; Dec. 31; Gaz. vol. 185; p. 1283.
Love, William, London, England. Manufacture of composite tubes. No. 1,048,326; Dec. 24; Gaz. vol. 185; p. 972.
Lovejoy, John W., Steel, Ohio. Curtain-pole and bracket. No. 1,022,852; Apr. 9; Sp. p. 2356; Gaz. vol. 177; p. 402.
Lovejoy, John W., Steel, Ohio. Envelop-moistening device. No. 1,025,097; Apr. 30; Sp. p. 7200; Gaz. vol. 177; p. 1261.
Lovekin, Luther D., Philadelphia, Pa. Steam-generating boiler. No. 1,014,238; Jan. 9; Sp. p. 2559; Gaz. vol. 174; p. 427.

Alphabetical list of patentees—Continued.

Lovekin, Luther D., assignor to Schutte and Koerting Company, Philadelphia, Pa. Oil-burning provision for boiler-furnaces. No. 1,039,768; Oct. 1; Gaz. vol. 183; p. 34.
Loveland, Edward M., Lignite, N. D. Grain-cleaner. No. 1,016,424; Feb. 6; Sp. p. 413; Gaz. vol. 175; p. 65.
Loveless, Fred H., La Fayette, assignor of one-half to P. A. and J. W. Talbert, Indianapolis, Ind. Laundry-wrap. No. 1,048,554; Dec. 31; Gaz. vol. 185; p. 1088.
Lovell, Albert K., New Haven, Conn. Roller window-screen. No. 1,042,805; Oct. 29; Gaz. vol. 183; p. 1191.
Lovell, Frederick W., Cleveland, assignor to The McMyler Interstate Company, Bedford, Ohio. Coal-handling plant. No. 1,028,235; June 4; Sp. p. 382; Gaz. vol. 179; p. 54.
Lovell, Frederick W., assignor to The McMyler Manufacturing Company, Cleveland, Ohio. Apparatus for loading and unloading coal and similar material. No. 1,033,602; July 23; Gaz. vol. 180; p. 1064.
Lovell, John, Conneaut, Ohio. Lubricating system. No. 1,043,853; Nov. 12; Gaz. vol. 184; p. 314.
Lovell Manufacturing Company. (See Janisch, Maximillian P., assignor.)
Lovell, Paul R., and E. H. Michael, Logan, Iowa. Attachment for hay-loaders. No. 1,017,433; Feb. 13; Sp. p. 2662; Gaz. vol. 175; p. 450.
Lovely, Joseph, Hamilton, R. I. Power-transmission device. No. 1,022,099; Apr. 2; Sp. p. 733; Gaz. vol. 177; p. 117.
Lovely, Orien S., Colchester, Ill. Combined currycomb and cleaner. No. 1,014,160; Jan. 9; Sp. p. 2376; Gaz. vol. 174; p. 397.
Lovendale, Theodore, Salt Lake City, Utah. Device for enamel-printing. No. 1,023,160; Apr. 16; Sp. p. 3042; Gaz. vol. 177; p. 546.
Lovett, Morris J., Randsburg, Cal. Permutation-padlock. No. 1,028,754; June 4; Sp. p. 1482; Gaz. vol. 179; p. 229.
Loving, Roy R., Center, Tex. Photographic-printing machine. No. 1,038,771; Sept. 17; Gaz. vol. 182; p. 608.
Lovis, Henry C., New York, N. Y., assignor to Seabury & Johnson. Cuspidor. No. 1,015,046; Jan. 16; Sp. p. 4363; Gaz. vol. 174; p. 732.
Low, Abbot A., *et al.*, trustees. (See Betts, Lewis F., assignor.)
Low, Abbot A., *et al.*, trustees. (See Hertzberg, Harry, assignor.)
Low, Abbot A., *et al.*, trustees. (See Low, Abbot A., assignor.)
Low, Abbot A., trustee. (See Wohl and Hertzberg, assignors.)
Low, Abbot A., Horseshoe, assignor to M. J. Wohl, H. Hertzberg, New York, and A. A. Low, Horseshoe, N. Y., trustees. Arc-lamp construction. No. 1,033,813; July 30; Gaz. vol. 180; p. 1159.
Low, Abbot A., assignor to A. A. Low, Horseshoe, M. J. Wohl and H. Hertzberg, Brooklyn, N. Y., trustees. Mesh heater. No. 1,039,769; Oct. 1; Gaz. vol. 183; p. 34.
Low, Abbot A., Horseshoe, and H. Hertzberg, New York, N. Y.; said Hertzberg assignor to said Low. Means for preliminarily heating internal-combustion engines. No. 1,029,380; June 11; Sp. p. 2851; Gaz. vol. 179; p. 479.
Low, Abbot A., Horseshoe, and H. Hertzberg, New York, N. Y.; said Hertzberg assignor to said Low. Vaporizing device for explosive-engines. No. 1,035,614; Aug. 13; Gaz. vol. 181; p. 441.
Low, Abbot A., Horseshoe, H. Hertzberg, and M. J. Wohl, New York, N. Y., assignors to themselves, trustees. Trimmer and gage for arc-lamps. No. 1,013,409; Jan. 2; Sp. p. 700; Gaz. vol. 174; p. 111.
Low, Archibald N. (See Weir, John, assignor.)
Low, Charles J., Chelan, Wash. Propeller. No. 1,041,825; Oct. 22; Gaz. vol. 183; p. 829.
Lowden, Andrew S., Concord, Mass. Applying hinges. No. 1,016,341; Feb. 6; Sp. p. 239; Gaz. vol. 175; p. 37.
Lowden, Walter A. (See Byrd and Lowden.)
Lowder, Matthew W., Indianapolis, Ind. Photographic-printing apparatus. No. 1,028,369; June 4; Sp. p. 672; Gaz. vol. 179; p. 101.
Lowe, Albert H., St. Louis, Mo. Cable-clamp for electric-elevator circuit-breakers. No. 1,015,809; Jan. 30; Sp. p. 5981; Gaz. vol. 174; p. 1046.
Lowe, Almadoris B., Cleveland, assignor of one-half to T. A. Lowe, Burton, Ohio. Burglar-alarm. No. 1,019,264; Mar. 5; Sp. p. 564; Gaz. vol. 176; p. 90.
Lowe, Chester A., and J. C. Atkinson. Clarington, Ohio. Automatic mail and package carrier. No. 1,035,368; Aug. 13; Gaz. vol. 181; p. 358.
Lowe, Colby B., Mallard, Iowa. Hay-stacker-tongue support. No. 1,048,084; Dec. 24; Gaz. vol. 185; p. 891.
Lowe, Ellsworth A., South Lee, N. H. Valve. No. 1,017,434; Feb. 13; Sp. p. 2664; Gaz. vol. 175; p. 451.
Lowe, James, assignor of one-third to J. Pellaxio, San Francisco, Cal. Spring-wheel. No. 1,015,199; Jan. 16; Sp. p. 4645; Gaz. vol. 174; p. 784.
Lowe, James L., Moore, Mont. Dirigible headlight. No. 1,019,976; Mar. 12; Sp. p. 2069; Gaz. vol. 176; p. 357.
Lowe, Levi E., Columbus, Ohio. Valve-stem and head therefor. No. 1,020,766; Mar. 19; Sp. p. 3757; Gaz. vol. 176; p. 658.
Lowe, Luke T., Bristol, Tenn., assignor to Diamond Block Machine Company, Incorporated, Bristol, Va. Molding-machine. No 1,025,579; May 7; Sp. p. 1067; Gaz. vol. 178; p. 165.
Lowe, Thaddeus. (See Minier and Lowe.)
Lowe, Thomas, Garfield, Wash. Grease-cup. No. 1,039,980; Oct. 1; Gaz. vol. 183; p. 103.
Lowe, Thomas A. (See Lowe, Almadoris B., assignor.)
Lowe, Wallace W., Byron, Ga. Planter. No. 1,038,611; Sept. 17; Gaz. vol. 182; p. 552.
Lowe, William H., Brondesbury, assignor to The Float Electric Company, Limited, New Kent Road, England. Electrolyte. No. 1,043,328; Nov. 5; Gaz. vol. 184; p. 102.
Lowe, William H., Brondesbury, assignor to The Float Electric Company, Limited, New Kent Road, England. Electric battery. No. 1,044,549; Nov. 19; Gaz. vol. 184; p. 584.
Lowell, Joseph B., Everett, Mass. Apparatus for locking car-doors. No. 1,037,502; Sept. 3; Gaz. vol. 182; p. 111.
Lowell Machine Shop. (See Farnham, George W., assignor.)
Löwenstein, Leo, Vienna, Austria-Hungary. Making hydrogen peroxid from impure persulfuric-acid solutions. No. 1,013,791; Jan. 2; Sp. p. 1533; Gaz. vol. 174; p. 244.
Lower, William W., Tyrone, Pa. Spring-cushioned tire for vehicle-wheels. No. 1,025,072; Apr. 30; Sp. p. 7128; Gaz. vol. 177; p. 1252.
Loweree, Edgar R., assignor to Continental Can Company, Baltimore, Md. Receptacle. No. 1,016,755; Feb. 6; Sp. p. 1165; Gaz. vol. 175; p. 180.
Lowrey, Fred L., Houlton, Me. Hame attachment. No. 1,016,280; Feb. 6; Sp. p. 104; Gaz. vol. 175; p. 16.
Lowry, George A., Boston, Mass. Spigot. No. 1,021,055; Mar. 26; Sp. p. 4355; Gaz. vol. 176; p. 808.
Lowry, George A., Malden, Mass. Protective apparatus for orchards, gardens, and the like. No. 1,035,980; Aug. 20; Gaz. vol. 181; p. 601.
Lowry, George A., Pawtucket, R. I. Engine. No. 1,038,612; Sept. 17; Gaz. vol. 182; p. 552.
Lowry, Reginald N., Sewickley, Pa. Locomotive. No. 1,027,424; May 28; Sp. p. 5157; Gaz. vol. 178; p. 904.
Lowry, Robert C., New York, and F. Emmerich, Brooklyn, N. Y. Bundling-machine. No. 1,026,754; May 21; Sp. p. 3651; Gaz. vol. 178; p. 635.
Lowry, Wade H., Jacksonville, Fla. Aero safety device. No. 1,037,943; Sept. 10; Gaz. vol. 182; p. 291.
Löwy, Heinrich, Göttingen, Germany. Locating subterranean strata. No. 1,045,575; Nov. 26; Gaz. vol. 184; p. 972.
Lowy, Otto, Newark, N. J. Safety gas-burner. No. 1,038,772; Sept. 17; Gaz. vol. 182; p. 609.
Lowy, William, and J. Milch, New York, N. Y. Perforating means for cylinder-presses. No. 1,026,218; May 14; Sp. p. 2501; Gaz. vol. 178; p. 418.
Loyd, George, Fort Wayne, Ind. Adjustable measure. No. 1,039,153; Sept. 24; Gaz. vol. 182; p. 752.
Loyd, John H. (See Breder and Loyd.) (Reissue.)
Loziano, Leon, Paris, assignor, by mesne assignments, to Societe Anonyme Montbarbon, Neuilly-sur-Seine, France. Radiator. (Reissue.) No. 13,411; Apr. 30; Sp. p. 7239; Gaz. vol. 177; p. 1269.
Lubbers, John H., Allegheny, assignor to Window Glass Machine Company, Pittsburgh, Pa. Drawing glass articles. No. 1,020,920; Mar. 19; Sp. p. 4054; Gaz. vol. 176; p. 708.
Lübeck, Emil, Barmen, Germany. Loom-shuttle. No. 1,019,977; Mar. 12; Sp. p. 2070; Gaz. vol. 176; p. 357.
Lubell, Abraham P., New York, N. Y. Blouse. No. 1,034,127; July 30; Gaz. vol. 180; p. 1269.
Lubin, Siegmund. (See Johnson, Jesse B., assignor.)
Lubin, Siegmund. (See Weiser, Orville T., assignor.)
Lubke, Adolph E. G., assignor of one-half to J. L. Ord, San Francisco, Cal. Cash-delivering device. No. 1,022,636; Apr. 9; Sp. p. 1867; Gaz. vol. 177; p. 326.
Lublintz, Rudolph, New York, N. Y. Combined strap and drinking-cup holder. No. 1,026,960; May 21; Sp. p. 4156; Gaz. vol. 178; p. 709.
Lubrecht, Ferdinand A., Pine City, Minn. Whiffletree. No. 1,016,425; Feb. 6; Sp. p. 414; Gaz. vol. 175; p. 66.
Lucas, Anton, assignor to Goldschmidt Thermit Company, New York, N. Y. Welding metals. No. 1,021,318; Mar. 26; Sp. p. 4902; Gaz. vol. 176; p. 896.
Lucas, Charles O., Dayton, Ohio. Pump construction. No. 1,039,154; Sept. 24; Gaz. vol. 182; p. 753.
Lucas, Clarence W., assignor to Faries Manufacturing Company, Decatur, Ill. Shade-holder for electric-bulb sockets. No. 1,024,732; Apr. 30; Sp. p. 6446; Gaz. vol. 177; p. 1136.
Lucas, Clarence W., assignor to Faries Manufacturing Company, Decatur, Ill. Combined socket-cover and shade-holder. No. 1,033,427; July 23; Gaz. vol. 180; p. 1006.
Lucas, George W., Newport, Ark. Water-jacket spark finder and extinguisher. No. 1,037,944; Sept. 10; Gaz. vol. 182; p. 292.

Alphabetical list of patentees—Continued.

Lucas-Girardville, Edmond, and G. Mercadier, Tonneins, France. Apparatus for transferring heat. No. 1,034,020; July 30; Gaz. vol. 180; p. 1234.
Lucas, Henry H., Phoenix, Ariz. Cover for syrup-cups or other vessels. No. 1,045,993; Dec. 3; Gaz. vol. 185; p. 67.
Lucas, Howard M., assignor of one-half to H. S. Tompkins, Gatun, Canal Zone. Detachable ladder-hook. No. 1,030,905; July 2; Gaz. vol. 180; p. 19.
Lucas, James W. (See Walker, Charles L., assignor.)
Lucas, John P. and J. A., Browerville, Minn. Manure-loader. No. 1,033,814; July 30; Gaz. vol. 180; p. 1159.
Lucas, John T., assignor of one-half to L. F. Blyler, Minneapolis, Minn. Gas-meter leak-detector. No. 1,034,264; July 30; Gaz. vol. 180; p. 1318.
Lucas, Joseph. (See Anderson, Peter, assignor.)
Lucas, Joseph A. (See Lucas, John P. and J. A.)
Lucas, Louis. (See Dahlquist and Lucas.)
Lucas, Richard N. (See Leitner and Lucas.)
Lucas, Robert B., Hitchin, England. Method of getting clay, chalk, or the like, applicable also to the working of mines or making of railway-cuttings. No. 1,043,784; Nov. 5; Gaz. vol. 184; p. 258.
Lucas, Thomas, Greenwood, Miss. Boll-weevil machine. No. 1,046,206; Dec. 3; Gaz. vol. 185; p. 140.
Lucas, Valentine. (See Puckett and Lucas.)
Lucas, Valentine, and C. Bauer; said Bauer assignor to H. J. Puckett, Kansas City, Mo. Grain-drier. No. 1,024,408; Apr. 23; Sp. p. 5671; Gaz. vol. 177; p. 988.
Lucas, Walter, Victoria, British Columbia, Canada. Sewer-pipe construction. No. 1,042,579; Oct. 29; Gaz. vol. 183; p. 1112.
Lucas, William G., McKeesport, Pa. Tie and rail-fastener. No. 1,018,835; Feb. 27; Sp. p. 5786; Gaz. vol. 175; p. 999.
Luce, Charles J., Niantic, Conn., assignor to The Standard Cotton Compress Company. Cotton-press. No. 1,014,764; Jan. 16; Sp. p. 3729; Gaz. vol. 174; p. 635.
Luce, Charles J., Niantic, Conn., assignor to The Standard Cotton Compress Company. Cotton-press. No. 1,014,765; Jan. 16; Sp. p. 3730; Gaz. vol. 174; p. 635.
Luce, Don C., Boston, Mass. Steering mechanism for motor-vehicles. No. 1,016,838; Feb. 6; Sp. p. 1337; Gaz. vol. 175; p. 206.
Luce, George W., and G. C. Van Dyke, Hayward, Cal. Ball-cock valve. No. 1,044,403; Nov. 12; Gaz. vol. 184; p. 504.
Luce Manufacturing Company. (See Luce, Thomas C., assignor.)
Luce, Thomas C., assignor to Luce Manufacturing Company, Dalton, Mass. Adjustable bracket for lamps. No. 1,023,259; Apr. 16; Sp. p. 3245; Gaz. vol. 177; p. 580.
Luce, Thomas C., assignor to Luce Manufacturing Company, Dalton, Mass. Cooling system for explosive-engines. No. 1,044,065; Nov. 12; Gaz. vol. 184; p. 389.
Lucia, Raffaelo, Uniontown, Pa. Coke-oven door. No. 1,015,696; Jan. 23; Sp. p. 5756; Gaz. vol. 174; p. 981.
Lucier, George H., St. Paul, Minn. Burglar-alarm. No. 1,030,196; June 18; Sp. p. 4626; Gaz. vol. 179; p. 796.
Lucik, Anthony, New Albany, Ind. Davenport-bed. No. 1,018,432; Feb. 27; Sp. p. 4868; Gaz. vol. 175; p. 862.
Lucke, Thomas W., Chicago, Ill. Tire-emplacing tool. No. 1,035,456; Aug. 13; Gaz. vol. 181; p. 387.
Luckenbach, Harry, Chicago, Ill., assignor, by mesne assignments, to Luckenbach Inventions Development Company, New York, N. Y. Making structures for superheating and other purposes. No. 1,025,817; May 7; Sp. p. 1553; Gaz. vol. 178; p. 246.
Luckenbach, Harry, Chicago, Ill., assignor, by mesne assignments, to Luckenbach Inventions Development Company, New York, N. Y. Structure for heating or superheating purposes. No. 1,025,949; May 7; Sp. p. 1878; Gaz. vol. 178; p. 288.
Luckenbach, Harry, St. Louis, Mo., assignor, by mesne assignments, to Luckenbach Inventions Development Company, New York, N. Y. Mixer and distributer for liquid bodies. No. 1,028,042; May 28; Sp. p. 6482; Gaz. vol. 178; p. 1109.
Luckenbach Inventions Development Company. (See Luckenbach, Harry, assignor.)
Luckenbach, Royer, Colwyn, Pa., assignor to Penn Mining & Reduction Company, Camden, N. J. Amalgamator. No. 1,042,701; Oct. 29; Gaz. vol. 183; p. 1155.
Luckhoff, Louis, Canton, Ohio. Weed-destroyer. No. 1,020,614; Mar. 19; Sp. p. 3422; Gaz. vol. 176; p. 606.
Lucking, Frank B., Cannon Falls, Minn. Sifter-spout. No. 1,028,577; June 4; Sp. p. 1122; Gaz. vol. 179; p. 170.
Luckock, Luke, East Pittsburgh, Pa. Hat-pin fastener. No. 1,018,200; Feb. 20; Sp. p. 4372; Gaz. vol. 175; p. 750.
Lucy, William R., Ralston, Wash. Trace-coupling. No. 1,021,319; Mar. 26; Sp. p. 4904; Gaz. vol. 176; p. 896.
Lüdecke, Georg, assignor to Wolfram Lampen Aktien-Gesellschaft, Augsburg, Germany. Metal-filament incandescent lamp. No. 1,038,613; Sept. 17; Gaz. vol. 182; p. 552.
Ludiker, John R. and T. A., Kuna, Idaho. Head-gate. No. 1,047,423; Dec. 17; Gaz. vol. 185; p. 634.
Ludiker, Thomas A. (See Ludiker, John R. and T. A.)
Ludlow Valve Manufacturing Company, The. (See Whitehouse, John H., assignor.)
Ludlum, Albert C., New York, N. Y., assignor to New York Engineering Company. Pulling-stand for drill-casings. No. 1,027,867; May 28; Sp. p. 6128; Gaz. vol. 178; p. 1052.
Ludlum, Albert C., New York, N. Y., assignor to New York Engineering Company. Jack for removing pipes or casings from earth-borings. No. 1,037,179; Aug. 27; Gaz. vol. 181; p. 1043.
Ludtke, Herman, Ottawa, Ill. Flying-machine. No. 1,014,239; Jan. 9; Sp. p. 2562; Gaz. vol. 174; p. 427.
Ludwick, Herman, Milwaukee, Wis. Oil-burner. No. 1,042,454; Oct. 29; Gaz. vol. 183; p. 1068.
Ludwick, Wayne D., near Tacoma, assignor of fifty-one one-hundredths to H. Hewitt, Jr., Tacoma, Wash. Electric melting-furnace. No. 1,038,614; Sept. 17; Gaz. vol. 182; p. 553.
Ludwig, Bernhard, assignor to Ofenbau-Gesellschaft mit beschränkter Haftung, Munich, Germany. Latch mechanism. No. 1,025,756; May 7; Sp. p. 1432; Gaz. vol. 178; p. 224.
Ludwig Hupfeld Aktiengesellschaft. (See Hennig, Gustav K., assignor.)
Ludwig, John G., Middleville, N. Y. Caster. No. 1,033,256; July 23; Gaz. vol. 180; p. 950.
Ludwig, Richard, Bous-on-the-Saar, Germany. Rolling-mill. No. 1,028,236; June 4; Sp. p. 386; Gaz. vol. 179; p. 55.
Ludwig, Thomas I., Sandusky, Ohio. Telephone attachment. No. 1,028,370; June 4; Sp. p. 674; Gaz. vol. 179; p. 101.
Ludwig, William F., Chicago, Ill. Snare strainer and muffler. No. 1,042,806; Oct. 29; Gaz. vol. 183; p. 1191.
Luebke, Adolph H., Montello, Wis. Fender. No. 1,022,372; Apr. 2; Sp. p. 1288; Gaz. vol. 177; p. 208.
Luebke, August H., assignor to B. F. Windsor, deceased, Kenosha, Wis.; W. F. White, executor. Spring-forming machine. No. 1,020,767; Mar. 19; Sp. p. 3758; Gaz. vol. 176; p. 658.
Luecke, Paul W., Roselle, Ill. Hitching-strap. No. 1,037,782; Sept. 3; Gaz. vol. 182; p. 202.
Luehrs, Daniel M., Toledo, Ohio, and W. S. Conant, Detroit, Mich., assignors to McCreery Engineering Company, Toledo, Ohio. Air-treating apparatus. No. 1,023,260; Apr. 16; Sp. p. 3246; Gaz. vol. 177; p. 580.
Luellen, Lawrence W. (See Jannell, Leslie D., assignor.)
Luellen, Lawrence W., Newton, Mass. Cup. No. 1,032,557; July 16; Gaz. vol. 180; p. 673.
Luellen, Lawrence W., New York, N. Y. Cup-dispensing device. No. 1,043,854; Nov. 12; Gaz. vol. 184; p. 315.
Luft-Verkehrs-Gesellschaft m. b. H. (See Wankmüller, Romeo, assignor.)
Luft, Walter, Elberfeld, Germany. Closure for ladies' waists and blouses. No. 1,029,204; June 11; Sp. p. 2416; Gaz. vol. 179; p. 419.
Luftschiffsantrieb-Gesellschaft mit beschränkter Haftung. (See Wisniewski, Vincent, assignor.)
Lugenbill, John G., Pitcairn, Pa. Boring-bar. No. 1,027,554; May 28; Sp. p. 5404; Gaz. vol. 178; p. 947.
Luhmann, Henry W., San Jose, Cal. Incubator. No. 1,035,885; Aug. 20; Gaz. vol. 181; p. 570.
Luhn, Max, Barmen, Germany. Device for purifying the steam in steam-generators. No. 1,044,208; Nov. 12; Gaz. vol. 184; p. 437.
Luitwieler, Samuel W., Rochester, N. Y. Variable-speed mechanism. No. 1,023,084; Apr. 9; Sp. p. 2829; Gaz. vol. 177; p. 481.
Lukács, Lázár, assignor of one-fourth to J. Szücs, New York, N. Y. Automatic balancing mechanism for flying-machines. No. 1,022,793; Apr. 9; Sp. p. 2230; Gaz. vol. 177; p. 382.
Lukács, Lázár, assignor of one-half to H. B. Friedman, New York, N. Y. Combination steam-boiler and water-heater. No. 1,037,029; Aug. 27; Gaz. vol. 181; p. 993.
Luke, Kate, New York, N. Y. Corset. No. 1,041,311; Oct. 15; Gaz. vol. 183; p. 620.
Luke, Samuel D., Pinetop, Mo. Bolt-extractor. No. 1,046,617; Dec. 10; Gaz. vol. 185; p. 324.
Lukens, Clarence D., assignor to C. De Witt Lukens Surgical Manufacturing Company, St. Louis, Mo. Receptacle. No. 1,039,981; Oct. 1; Gaz. vol. 183; p. 103.
Lukens, Milton H., Marblehead, Mass. Dies for cutting threads. No. 1,020,996; Mar. 26; Sp. p. 4235; Gaz. vol. 176; p. 787.
Luker, Thomas W., New Vienna, Ohio. Wire-stretcher. No. 1,033,715; July 23; Gaz. vol. 180; p. 1099.
Lukins, Fred J., Artesia, N. Mex. Pumping apparatus. No. 1,047,258; Dec. 17; Gaz. vol. 185; p. 576.
Lukowski, Edward A., Hammond, Ind. Beer-tap. No. 1,020,212; Mar. 12; Sp. p. 2579; Gaz. vol. 176; p. 437.
Lull, Ferson W., Oso, Wash. Cattle-guard. No. 1,046,618; Dec. 10; Gaz. vol. 185; p. 325.
Lum, Walter O. (See Knight and Lum.)
Lumello, Carlo, assignor of one-half to F. Franco, Turin, Italy. Machine for the manufacture of wooden pins or pegs. No. 1,029,503; June 11; Sp. p. 3109; Gaz. vol. 179; p. 521.
Lumiere, Louis, Lyon, France. Talking-machine. No. 1,036,285; Aug. 20; Gaz. vol. 181; p. 709.

Alphabetical list of patentees—Continued.

Lumiere, Louis, Lyon, France. Acoustical instrument. No. 1,039,155; Sept. 24; Gaz. vol. 182; p. 753.
Lumiere, Louis, Lyon, France, assignor to Victor Talking Machine Company, Camden, N. J. Acoustical instrument. No. 1,036,529; Aug. 20; Gaz. vol. 181; p. 794.
Lumley, Wilfrid, East Conneaut, Ohio, assignor to The Conneaut Company. Package for tungsten-lamps. No. 1,016,077; Jan. 30; Sp. p. 6572; Gaz. vol. 174; p. 1141.
Lumley, Wilfrid, East Conneaut, Ohio, assignor to The Conneaut Company. Folding chandelier. No. 1,023,085; Apr. 9; Sp. p. 2832; Gaz. vol. 177; p. 482.
Lummis, George M., Fort Myers, Fla. Sanitary structure and appliance for use in cow-milking. No. 1,025,955; May 7; Sp. p. 1893; Gaz. vol. 178; p. 290.
Lumsden, Thomas, Gateshead, England. Variable-speed mechanism for motor-vehicles. No. 1,031,723; July 9; Gaz. vol. 180; p. 346.
Lumsden, Thomas, Gateshead, England. Tool and like grinding machine. No. 1,032,758; July 16; Gaz. vol. 180; p. 744.
Lumsden, Thomas, Gateshead, England. Tool-holder for tool and like grinding machines. No. 1,047,424; Dec. 17; Gaz. vol. 185; p. 635.
Luna, Francisco, Morgantown, W. Va. Automatic flushing device. No. 1,044,209; Nov. 12; Gaz. vol. 184; p. 438.
Lund, George H., Chicago, Ill. Preparing plates for printing. No. 1,015,900; Jan. 30; Sp. p. 6179; Gaz. vol. 174; p. 1078.
Lund, Hans V. (See Krüger, Paul, assignor.)
Lund, James B., Chicago, Ill. Attachment for carbureters. No. 1,017,572; Feb. 13; Sp. p. 2939; Gaz. vol. 175; p. 497.
Lund, Jens G. F., Christiania, Norway. Straight vault. No. 1,028,578; June 4; Sp. p. 1123; Gaz. vol. 179; p. 171.
Lund, Thomas, Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for attaching heels. No. 1,017,778; Feb. 20; Sp. p. 3421; Gaz. vol. 175; p. 602.
Lund, Thomas, Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Mold-forming machine. No. 1,024,516; Apr. 30; Sp. p. 5947; Gaz. vol. 177; p. 1061.
Lund, Thomas, Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Compressing-machine. No. 1,030,739; June 25; Sp. p. 6045; Gaz. vol. 179; p. 1030.
Lund, Thomas, Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Device for cutting and ornamenting sheet material. No. 1,048,842; Dec. 31; Gaz. vol. 185; p. 1189.
Lundberg, August J., assignor to Pac-Rite Company, New York, N. Y. Folding form for garments. No. 1,044,462; Nov. 12; Gaz. vol. 184; p. 524.
Lundberg, August O. (See Frank and Lundberg.)
Lundberg, Endfred, Westfield, N. J., assignor to Hardman, Peck & Company, New York, N. Y. Tempo-regulator. No. 1,016,839; Feb. 6; Sp. p. 1339; Gaz. vol. 175; p. 207.
Lundberg, Swan, Chicago, Ill. Spring-hinge. No. 1,029,876; June 18; Sp. p. 3952; Gaz. vol. 179; p. 688.
Lunde, Matt, and L. P. Cordell, La Crosse, Wis., assignors to The World Manufacturing & Specialty Co., Chicago, Ill. Stamp-vending machine. No. 1,043,446; Nov. 5; Gaz. vol. 184; p. 143.
Lunde, Ole P. (See Noisom and Lunde.)
Lundeberg, Carl F., Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 1,019,978; Mar. 12; Sp. p. 2071; Gaz. vol. 176; p. 357.
Lundeen, F. G. (See Angell, William R., assignor.)
Lundell, Robert, New York, N. Y. Dynamo-electric machine. No. 1,045,158; Nov. 26; Gaz. vol. 184; p. 824.
Lundell, Robert, New York, N. Y. Interpole field-magnet. No. 1,045,159; Nov. 26; Gaz. vol. 184; p. 825.
Lundgaard, John, St. Paul, Minn. Milk-pail cover. No. 1,031,015; July 2; Gaz. vol. 180; p. 58.
Lundgren, Charles A., assignor to Burroughs Adding Machine Company, Detroit, Mich. Electric foot-switch. No. 1,031,191; July 2; Gaz. vol. 180; p. 122.
Lundgren, Charles A., assignor to Burroughs Adding Machine Company, Detroit, Mich. Adding-machine. No. 1,033,109; July 23; Gaz. vol. 180; p. 899.
Lundin, Andreas P., New York, N. Y., assignor, by mesne assignments, to Astor Trust Company, trustee. Device for hoisting and lowering life-boats. No. 1,025,818; May 7; Sp. p. 1555; Gaz. vol. 178; p. 246.
Lundin, Andreas P., New York, N. Y., assignor, by mesne assignments, to Astor Trust Company, trustee. Crane or davit. No. 1,034,128; July 30; Gaz. vol. 180; p. 1270.
Lundin, Andres G., Neponset, Mass. Horseshoe. No. 1,044,550; Nov. 19; Gaz. vol. 184; p. 584.
Lundin, Birger, Skultuna, Sweden. Coin-counting apparatus. No. 1,026,755; May 21; Sp. p. 3656; Gaz. vol. 178; p. 635.
Lundin, Helene F. (See Dalton, Thomas J., assignor.)
Lundin, Lewis W., Portland, Oreg. Adjustable bracket for mirrors. No. 1,031,075; July 2; Gaz. vol. 180; p. 81.
Lundin, Nils F., *et al.* (See Richer, Joseph, assignor.)
Lundius, Eric R., Seattle, Wash. Book-holder. No. 1,021,614; Mar. 26; Sp. p. 5549; Gaz. vol. 176; p. 996.
Lundquist, Carl J., assignor of one-half to E. O. Wistrand, Minneapolis, Minn. Adjustable hose-nozzle holder. No. 1,016,281; Feb. 6; Sp. p. 105; Gaz. vol. 175; p. 16.
Lundquist, Erick. (See Carlberg, Carl S., assignor.)
Lundquist, Frank A., New York, N. Y., assignor to Folding Umbrella Co. Folding umbrella. No. 1,023,211; Apr. 16; Sp. p. 3152; Gaz. vol. 177; p. 564.
Lundquist, Hendrick W., San Diego, Cal. Current or wave motor. No. 1,016,022; Jan. 30; Sp. p. 6438; Gaz. vol. 174; p. 1120.
Lundstrom, Fredrik, New York, N. Y. Sash-cord fastener. No. 1,046,619; Dec. 10; Gaz. vol. 185; p. 325.
Lundström, Gotthard. (See Nathorst and Lundström.)
Lundstrom, William, Margie, Minn. Trap. No. 1,024,689; Apr. 30; Sp. p. 6364; Gaz. vol. 177; p. 1121.
Lundy, Nathan W., Waukegan, Ill. Tool-heater. No. 1,030,257; June 18; Sp. p. 4754; Gaz. vol. 179; p. 818.
Lung, Arla E., Garrett, Ind. Wire-twister. No. 1,014,498; Jan. 9; Sp. p. 3096; Gaz. vol. 174; p. 514.
Lungen, Adam, assignor to Edwards & Co. Inc., New York, N. Y. Electric signaling device. No. 1,023,743; Apr. 16; Sp. p. 4174; Gaz. vol. 177; p. 733.
Lunken, Edmund H., assignor to The Lunkenheimer Company, Cincinnati, Ohio. Fireproof window construction. No. 1,026,520; May 14; Sp. p. 3151; Gaz. vol. 178; p. 520.
Lunken, Edmund H., assignor to The Lunkenheimer Company, Cincinnati, Ohio. Window-sash. No. 1,029,381; June 11; Sp. p. 2854; Gaz. vol. 179; p. 480.
Lunkenheimer Company, The. (See Aull, Jerome J., assignor.)
Lunkenheimer Company, The. (See Lunken, Edmund H., assignor.)
Lunkenheimer Company, The. (See Ritter and Aull, assignors.)
Lunney, William. (See Crompton and Lunney.)
Lunt, George, Formby, England. Manufacture of bread. No. 1,044,467; Nov. 12; Gaz. vol. 184; p. 526.
Lunt, George, Formby, England. Apparatus for making dough. No. 1,048,327; Dec. 24; Gaz. vol. 185; p. 973.
Lunt, Joseph, Stoke-upon-Trent, and J. W. Hartley, Stone, England. Circular kiln or oven. No. 1,028,043; May 28; Sp. p. 6484; Gaz. vol. 178; p. 1109.
Lunz, John, Belpre, Kans. Spring-wheel. No. 1,049,246; Dec. 31; Gaz. vol. 185; p. 1326.
Luporini, Mario, New York, N. Y. Universal clock. No. 1,045,304; Nov. 26; Gaz. vol. 184; p. 875.
Luppert, Valentine C., Williamsport, Pa. Drawer-stop. No. 1,039,557; Sept. 24; Gaz. vol. 182; p. 896.
Luppino Davenport Company. (See Luppino, Joseph, assignor.)
Luppino, Joseph, Ridgewood, N. J., assignor to Luppino Davenport Company, Brooklyn, N. Y. Davenport. No. 1,018,122; Feb. 20; Sp. p. 4209; Gaz. vol. 175; p. 723.
Lupton, James S., Chattanooga, Tenn. Plow. No. 1,017,105; Feb. 13; Sp. p. 1959; Gaz. vol. 175; p. 336.
Luquire, Wiley H., Birmingham, Ala. Lock-nut for vehicle-spindles. No. 1,031,353; July 2; Gaz. vol. 180; p. 177.
Lurie, Arnold N., assignor of one-half to T. L. Lurie, Chicago, Ill. Slide-rule. No. 1,028,237; June 4; Sp. p. 388; Gaz. vol. 179; p. 55.
Lurie, Theresa L. (See Lurie, Arnold N., assignor.)
Lurtz, John, Chicago, Ill. Dressing-table. No. 1,029,812; June 18; Sp. p. 3797; Gaz. vol. 179; p. 666.
Luschka, August R., assignor to American Slicing Machine Company, Chicago, Ill. Slicing-machine. No. 1,044,895; Nov. 19; Gaz. vol. 184; p. 705.
Luscomb, Frederick W., New Bedford, assignor to Atlas Tack Company, Fairhaven, Mass. Machine for inserting lacing-hooks. No. 1,035,981; Aug. 20; Gaz. vol. 181; p. 601.
Luse, Daniel F., Center Hall, Pa. Corn-grader. No. 1,043,019; Oct. 29; Gaz. vol. 183; p. 1265.
Lushbaugh, Edward. (See Auth, Joseph, assignor.)
Lusse, Joseph. (See Lusse, Robert and J.)
Lusse, Robert and J., Philadelphia, Pa. Roundabout. No. 1,013,792; Jan. 2; Sp. p. 1534; Gaz. vol. 174; p. 244.
Lusse, Robert and J., Philadelphia, Pa. Carousel. No. 1,033,716; July 23; Gaz. vol. 180; p. 1099.
Lussier, Henry, Salem, assignor to Draper Company, Hopedale, Mass. Automatic filling-replenishing loom. No. 1,019,265; Mar. 5; Sp. p. 566; Gaz. vol. 176; p. 90.
Lussier, Henry, Salem, assignor to Draper Company, Hopedale, Mass. Shuttle-checking means for looms. No. 1,021,842; Apr. 2; Sp. p. 198; Gaz. vol. 177; p. 33.
Lusted, William J., Los Angeles, Cal. Electric lamp. No. 1,031,076; July 2; Gaz. vol. 180; p. 81.
Luster, Eugene A., assignor of one-third to N. L. Epting and one-third to A. T. Conway, Athens, Ga. Measuring and calculating machine. No. 1,016,078; Jan. 30; Sp. p. 6573; Gaz. vol. 174; p. 1141.
Luten, Daniel B., Indianapolis, Ind. Arch-viaduct. No. 1,027,742; May 28; Sp. p. 5786; Gaz. vol. 178; p. 1008.
Luten, Daniel B., Indianapolis, Ind. Masonry and reinforced-concrete structure. No. 1,048,843; Dec. 31; Gaz. vol. 185; p. 1190.
Lutenberger, Mike, Blocton, Ala. Jack. No. 1,027,348; May 21; Sp. p. 4979; Gaz. vol. 178; p. 839.

Alphabetical list of patentees—Continued.

Lutenegger, Albert, Sacramento, Cal. Valve for gas-lighting systems for automobiles. No. 1,040,712; Oct. 8; Gaz. vol. 183; p. 387.
Luthardt, William H. (See Hudson, Harrison L., assignor.)
Luther, August. (See Müller and Luther.)
Luther, Charles J., Elizabeth, assignor of one-half to F. E. Knowles, South Orange, N. J. Drive-chain. No. 1,028,893; June 11; Sp. p. 1785; Gaz. vol. 179; p. 312.
Luther, Frederick P., *et al.* (See Greer, Howard, Jr., assignor.)
Luther, Otto C., Rugby, N. D. Mail-bag-handling apparatus. No. 1,043,020; Oct. 29; Gaz. vol. 183; p. 1265.
Luther, William H., Glasgow, Scotland. Shearing-machine. No. 1,024,409; Apr. 23; Sp. p. 5673; Gaz. vol. 177; p. 988.
Luthman, Charles H., Hammond, Ind., assignor to The National Surface Guard Company, Chicago, Ill. Wrench. No. 1,033,182; July 23; Gaz. vol. 180; p. 924.
Lutterman, Christopher W., assignor to U. S. Lithograph Company, Norwood, Ohio. Making printing-plates. No. 1,044,793; Nov. 19; Gaz. vol. 184; p. 672.
Lutters, Frederick A., New York, N. Y. Mellowing compound for liquors. No. 1,037,783; Sept. 3; Gaz. vol. 182; p. 202.
Lutton, William J., Paterson, N. J. Loom. No. 1,034,631; Aug. 6; Gaz. vol. 181; p. 75.
Luttringer, Armand D. (See Dubosc, Luttringer, and Denis.)
Lüttringhaus, Arthur, and H. von Diesbach, Mannheim, assignors to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Orange-red vat dye. No. 1,018,836; Feb. 27; Sp. p. 5788; Gaz. vol. 175; p. 1000.
Lüttringhaus, Arthur, and H. von Diesbach, Mannheim, assignors to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Yellow vat dye. No. 1,018,837; Feb. 27; Sp. p. 5789; Gaz. vol. 175; p. 1000.
Lüttringhaus, Arthur, and H. von Diesbach, Mannheim, assignors to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Orange-yellow vat dye. No. 1,044,673; Nov. 19; Gaz. vol. 184; p. 628.
Lüttringhaus, Arthur, Mannheim, and W. Braren, assignors to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Vat dyes and making the same. No. 1,035,023; Aug. 6; Gaz. vol. 181; p. 207.
Lüttringhaus, Arthur, and E. Schwarz, Mannheim, assignors to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Yellow vat dye. No. 1,044,674; Nov. 19; Gaz. vol. 184; p. 629.
Lüttringhaus, Arthur, and E. Schwarz, Mannheim, assignors to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Yellow vat dye. No. 1,044,675; Nov. 19; Gaz. vol. 184; p. 629.
Lutwyche, Edgar J., Chicago, Ill. Automobile-headlight. No. 1,022,589; Apr. 9; Sp. p. 1760; Gaz. vol. 177; p. 310.
Lutz, Charles A., York, Pa. Quoin. No. 1,018,838; Feb. 27; Sp. p. 5790; Gaz. vol. 175; p. 1000.
Lutz, Charles E., Marion, Ind. Adjustable cone for fertilizer-feed. No. 1,024,796; Apr. 30; Sp. p. 6592; Gaz. vol. 177; p. 1159.
Lutz, Frank E., Philadelphia, Pa. Electrically-operated hoisting apparatus. No. 1,015,901; Jan. 30; Sp. p. 6181; Gaz. vol. 174; p. 1078.
Lutz, George. (See Schmidt, Lutz, and Eichler.)
Lutz, George A., Plainfield, N. J. Connector for conduits and pipes. No. 1,028,579; June 4; Sp. p. 1125; Gaz. vol. 179; p. 171.
Lutz, George A., Plainfield, N. J. Electric battery. No. 1,045,862; Dec. 3; Gaz. vol. 185; p. 23.
Lutz, George A., Plainfield, N. J., assignor to American Circular Loom Company, Portland, Me. Electroplating apparatus. No. 1,022,487; Apr. 9; Sp. p. 1547; Gaz. vol. 177; p. 278.
Lutz, George A., Plainfield, N. J., assignor to American Circular Loom Company, Portland, Me. Electroplating apparatus. No. 1,022,561; Apr. 9; Sp. p. 1702; Gaz. vol. 177; p. 301.
Lutz, George A., Plainfield, N. J., assignor to American Circular Loom Company, Portland, Me. Support for articles to be electroplated. No. 1,022,794; Apr. 9; Sp. p. 2233; Gaz. vol. 177; p. 383.
Lutz, George A., Plainfield, N. J., assignor to American Circular Loom Company, Portland, Me. Support for articles to be electroplated. No. 1,022,853; Apr. 9; Sp. p. 2357; Gaz. vol. 177; p. 403.
Lutz, George H., Kansas City, Mo. System of operating steam-railway trains. No. 1,030,669; June 25; Sp. p. 5880; Gaz. vol. 179; p. 1006.
Lutz, Harvey B. (See Shee, Parke E., assignor.)
Lutz, William D. (See Ihlder and Lutz.)
Lutz, William D., Allendale, assignor to Otis Elevator Company, Jersey City, N. J. Electric-elevator-controlling apparatus. No. 1,034,719; Aug. 6; Gaz. vol. 181; p. 106.
Lutze, Alfred, Halle-on-the-Saale, Germany. Conveying and discharging device for use in bakeries or the like. No. 1,028,762; June 4; Sp. p. 1497; Gaz. vol. 179; p. 232.
Lux, Edwin H., Logansport, Ind. Electric sad-iron. No. 1,028,580; June 4; Sp. p. 1127; Gaz. vol. 179; p. 171.
Lux, Fred. (See Lux, Paul and F.)
Lux, Paul, assignor to The Waterbury Clock Co., Waterbury, Conn. Alarm-clock. No. 1,029,305; June 11; Sp. p. 2672; Gaz. vol. 179; p. 453.
Lux, Paul and F., Waterbury, Conn. Electric heater for watchmakers. No. 1,037,030; Aug. 27; Gaz. vol. 181; p. 993.
Lux, Paul and F., Waterbury, Conn. Jeweler's bench-block. No. 1,046,818; Dec. 10; Gaz. vol. 185; p. 395.
Lux, Rudolf, Wünschelburg, Germany. Device for protecting the members of a court assembly. No. 1,016,164; Jan. 30; Sp. p. 6725; Gaz. vol. 174; p. 1169.
Luxembourger, Henry, Jr., Los Angeles, Cal. Shock-absorber. No. 1,017,435; Feb. 13; Sp. p. 2665; Gaz. vol. 175; p. 451.
Luxmore, William, Chicago, Ill. Vehicle driving mechanism. No. 1,045,576; Nov. 26; Gaz. vol. 184; p. 972.
Lyback, Peter J., Chicago, Ill. Belt excavator. No. 1,020,296; Mar. 12; Sp. p. 2739; Gaz. vol. 176; p. 464.
Lyback, Peter J., Chicago, Ill. Ditching-machine. No. 1,038,915; Sept. 17; Gaz. vol. 182; p. 658.
Lybeck, Julius M., Everett, Wash. Lock attachment. No. 1,025,284; May 7; Sp. p. 383; Gaz. vol. 178; p. 62.
Lybeck, Nels A., Hog Island, R. I. Excavator. No. 1,032,845; July 16; Gaz. vol. 180; p. 773.
Lycan, Albert E., Tahoe, Idaho. Aeroplane. No. 1,015,200; Jan. 16; Sp. p. 4647; Gaz. vol. 174; p. 784.
Lycett, Edward, Olton, England. Saddle for cycles, motorcycles, and like machines. No. 1,023,744; Apr. 16; Sp. p. 4177; Gaz. vol. 177; p. 734.
Lydick, Jesse D. (See Alexander and Lydick.)
Lydon, Michael J. (See Harrington, Joseph A., assignor.)
Lyell, August, Wellington, New Zealand. Apple paring, coring, and slicing machine. No. 1,019,675; Mar. 5; Sp. p. 1463; Gaz. vol. 176; p. 226.
Lyford, Charles D., *et al.*, trustees. (See Nunn, Alfred W., assignor.)
Lyhne, Anker S., Bridgeport, Conn. Detachable chain-guide for lamp-sockets. No. 1,023,434; Apr. 16; Sp. p. 3584; Gaz. vol. 177; p. 637.
Lykes, Fredrick E. (See Ducker, Orlando, assignor.)
Lyle, Arlo D. (See McHattie and Lyle.)
Lyles, Henry M., and B. Kranzberg, St. Louis, Mo. Manufacture of clothing. No. 1,037,945; Sept. 10; Gaz. vol. 182; p. 292.
Lyman, Edward M., Peekskill, N. Y. Hat-rounding machine. No. 1,047,543; Dec. 17; Gaz. vol. 185; p. 677.
Lyman Gun Sight Corporation, The. (See Windridge, James, assignor.)
Lyman, Walter M., Philadelphia, Pa. Animal-blanket. No. 1,028,581; June 4; Sp. p. 1129; Gaz. vol. 179; p. 172.
Lyman, Walter M., Bala, Pa. Horse-blanket. No. 1,042,807; Oct. 29; Gaz. vol. 183; p. 1192.
Lynch, Charles, Chicago, Ill. Dumping-wagon. No. 1,017,302; Feb. 13; Sp. p. 2381; Gaz. vol. 175; p. 405.
Lynch, Charles D., Detroit, Mich. Flexible staff-holder. No. 1,013,410; Jan. 2; Sp. p. 702; Gaz. vol. 174; p. 112.
Lynch, Daniel E. (See Coyle and Lynch.)
Lynch, George B., New York, N. Y., assignor to Jno. Williams, Inc. Shade-holder. No. 1,045,417; Nov. 26; Gaz. vol. 184; p. 915.
Lynch, George C., New York, N. Y. Cigar-holder and ash-receptacle. No. 1,015,697; Jan. 23; Sp. p. 5757; Gaz. vol. 174; p. 981.
Lynch, George E., Chelsea, Mass., assignor, by mesne assignments, to The Jeffrey Manufacturing Company. Trolley. No. 1,036,286; Aug. 20; Gaz. vol. 181; p. 710.
Lynch, Gus. (See Sanders, Marion, assignor.)
Lynch, Henry, Lidgerwood, N. D. Wire-fence tool. No. 1,044,551; Nov. 19; Gaz. vol. 184; p. 585.
Lynch, James S., Citronelle, Ala. Revolving cultivator-hoe. No. 1,045,863; Dec. 3; Gaz. vol. 185; p. 23.
Lynch, John F., Niagara Falls, N. Y. Register. No. 1,032,486; July 16; Gaz. vol. 180; p. 650.
Lynch, John M., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Hardening and tempering steel. No. 1,029,877; June 18; Sp. p. 3953; Gaz. vol. 179; p. 688.
Lynch, John T., Chicago, Ill., assignor to The B. F. Cummins Company. Pick-up table for mail-matter. No. 1,035,714; Aug. 13; Gaz. vol. 181; p. 474.
Lynch, John T., and G. E. Bolton, Chicago, Ill., assignors to The B. F. Cummins Company. Spacing mechanism for mail-matter. No. 1,035,715; Aug. 13; Gaz. vol. 181; p. 474.
Lynch, John T., and G. E. Bolton, Chicago, Ill., assignors to The B. F. Cummins Company. Stacking mechanism for mail-matter. No. 1,035,716; Aug. 13; Gaz. vol. 181; p. 475.
Lynch, Joseph L., Chicago, Ill. Attaching means for buttons and badges. No. 1,045,160; Nov. 26; Gaz. vol. 184; p. 825.
Lynch, Mary F. (See Mattoni, Henry W., assignor.)
Lynch, Philip J., Shousetown, assignor of one-third to E. M. Cox, Munhall, and one-third to A. F. McClure, Mifflin township, Allegheny county, Pa. Doubling-machine for rolling-mills. No. 1,047,425; Dec. 17; Gaz. vol. 185; p. 635.

Alphabetical list of patentees—Continued.

Lynch, Robert L., Campbellsburg, Ky. Milk-strainer. No. 1,032,917; July 16; Gaz. vol. 180; p. 796.
Lynch, Thomas, Jefferson, Iowa. Hitching-strap. No. 1,041,644; Oct. 15; Gaz. vol. 183; p. 729.
Lynch, Thomas J., assignor of one-half to himself and one-half to H. S. Livingston, New York, N. Y. Dandruff remedy. No. 1,039,064; Sept. 17; Gaz. vol. 182; p. 704.
Lynchburg Foundry Company. (See Wiley, Edgar C., assignor.)
Lyncke, Hans, deceased, Charlottenburg, Germany; S. Lyncke, heiress. Forming an insoluble substance from the roots of plants of the Amorphophallus family. No. 1,035,615; Aug. 13; Gaz. vol. 181; p. 441.
Lyncke, Sophie, heiress. (See Lyncke, Hans.)
Lynde, Daniel H., Rockham, S. D. Burner. No. 1,021,056; Mar. 26; Sp. p. 4355; Gaz. vol. 176; p. 808.
Lyndgaard, Jorgen C. H., Lake Benton, Minn. Milk-stool. No. 1,019,009; Feb. 27; Sp. p. 6167; Gaz. vol. 175; p. 1059.
Lyndon, George W. (See Waggoner, Albert E., assignor.)
Lynehan, John E., New York, N. Y. Snare strainer and muffler for snare-drums. No. 1,025,146; May 7; Sp. p. 74; Gaz. vol. 178; p. 14.
Lyng, John J., assignor to Western Electric Company, New York, N. Y. Plug-switch. No. 1,039,156; Sept. 24; Gaz. vol. 182; p. 753.
Lynne, Orma, New Orleans, La. Rack. No. 1,044,210; Nov. 12; Gaz. vol. 184; p. 438.
Lynt, Frank, assignor of one-half to R. W. Gaffney, Yonkers, N. Y. Hydraulic jack. No. 1,046,207; Dec. 3; Gaz. vol. 185; p. 140.
Lynton Wheel & Tyre Syndicate. (See Smith, Robert T., Jr., assignor.)
Lyon, Alfred B., Indianapolis, Ind. Pantograph. No. 1,014,012; Jan. 9; Sp. p. 2059; Gaz. vol. 174; p. 347.
Lyon, Algernon R., Nardin, Okla. Device for locking whips in sockets. No. 1,022,488; Apr. 9; Sp. p. 1550; Gaz. vol. 177; p. 278.
Lyon, Archibald H., Fort George Wright, Wash. Pipe-support. No. 1,021,689; Mar. 26; Sp. p. 5671; Gaz. vol. 176; p. 1021.
Lyon, Gustave F., Paris, France. Harp. No. 1,039,303; Sept. 24; Gaz. vol. 182; p. 808.
Lyon, Harry. (See Donnelly and Lyon.)
Lyon, Harry, Brockton, Mass., assignor, by mesne assignments, to United Shoe Machinery Company, Paterson, N. J. Tacking mechanism. No. 1,028,238; June 4; Sp. p. 389; Gaz. vol. 179; p. 55.
Lyon & Healy. (See Wiswell, Leslie C., assignor.)
Lyon, Howard, Gloucester City, N. J., assignor to Welsbach Light Company. Conductive filament. No. 1,026,401; May 14; Sp. p. 2900; Gaz. vol. 178; p. 480.
Lyon, Howard, Gloucester City, N. J., assignor to Welsbach Light Company. Gas-fixture. No. 1,046,819; Dec. 10; Gaz. vol. 185; p. 395.
Lyon, Jotham A., Webster City, Iowa. Safety-brake. No. 1,033,428; July 23; Gaz. vol. 180; p. 1006.
Lyon, Matthew T., Salt Lake City, Utah. Truck for garbage-cans. No. 1,013,605; Jan. 2; Sp. p. 1109; Gaz. vol. 174; p. 178.
Lyon Metallic Manufacturing Company. (See Beecher, Herbert P., assignor.)
Lyon, W. R. (See Eubank, Samuel F., assignor.)
Lyons, Cassius H., Portland, Ind. Hay-loader. No. 1,039,558; Sept. 24; Gaz. vol. 182; p. 896.
Lyons, Clerewood L., Willows, Cal. Combination pipe-wrench and pipe-cutter. No. 1,016,946; Feb. 13; Sp. p. 1590; Gaz. vol. 175; p. 280.
Lyons, Edward, *et al.* (See Stallard, Sylvester P., assignor.)
Lyons, John J., assignor of one-fourth to G. W. Ozias and one-fourth to C. Whealen, Dayton, Ohio. Brake mechanism. No. 1,017,223; Feb. 13; Sp. p. 2223; Gaz. vol. 175; p. 378.
Lyons, Peter F., assignor of one-half to C. H. Cronin, Boston, Mass. Bath-trap. No. 1,016,342; Feb. 6; Sp. p. 242; Gaz. vol. 175; p. 37.
Lyons, Robert L., Waltham, Mass., assignor to himself, and C. J. Sibbald, Troy, N. Y. Sewing-machine. No. 1,018,201; Feb. 20; Sp. p. 4373; Gaz. vol. 175; p. 751.
Lyons, Robert L., Boston, Mass., assignor to himself, and C. J. Sibbald, Rochester, N. Y. Thread-cutting device for sewing-machines. No. 1,021,156; Mar. 26; Sp. p. 4563; Gaz. vol. 176; p. 839.
Lyons, Thomas, assignor to L. F. Meyer, Cleveland, Ohio. Pneumatic carpet-sweeper. No. 1,017,779; Feb. 20; Sp. p. 3427; Gaz. vol. 175; p. 603.
Lyons, William W., *et al.* (See Bennett, William N., assignor.)
Lyons, William W., assignor to Heller Tool Company, Newark, N. J. Pincers, pliers, and the like. No. 1,022,489; Apr. 9; Sp. p. 1551; Gaz. vol. 177; p. 278.
Lyons, Willis L., Thomasville, Ga. Splice rail-joint. No. 1,027,489; May 28; Sp. p. 5274; Gaz. vol. 178; p. 924.
Lyrachord Company, The. (See Breed, George, assignor.) (Reissue.)
Lysinger, Thomas K., Wilkinsburg, Pa. Heat-controlling device for radiators. No. 1,025,919; May 7; Sp. p. 1813; Gaz. vol. 178; p. 279.
Lytle, Andrew, *et al.* (See Smith, Winfield S., assignor.)
Lytle, David A., assignor of one-fourth to W. F. Lytle and one-fourth to J. H. Lytle, Indianapolis, Ind. Adjustable floral-decoration holder. No. 1,024,215; Apr. 23; Sp. p. 5273; Gaz. vol. 177; p. 924.
Lytle, John H., *et al.* (See Lytle, David A., assignor.)
Lytle, William F., *et al.* (See Lytle, David A., assignor.)
Lytle, William P. (See Phillips and Lytle.)
Lyttle, Bird F. (See Grimes, Josiah, assignor.)
Lytton, Jarard W., assignor to Lytton Manufacturing Company, Franklin, Va. Bottom blow-valve. No. 1,014,766; Jan. 16; Sp. p. 3732; Gaz. vol. 174; p. 636.
Lytton, Jarard W., assignor to Lytton Manufacturing Corporation, Franklin, Va. Boiler-feed-water regulator. No. 1,044,676; Nov. 19; Gaz. vol. 184; p. 629.
Lytton Manufacturing Corporation. (See Lytton, Jarard W., assignor.)
M. Garland Company, The. (See Devlin and Garland, assignors.)
M. Schulz Co. (See Gustafson, Adolph P., assignor.)
M. A. Stokes and Company. (See Herboldsman and Epihimer, assignors.)
M. A. N. Manufacturing Company. (See Tingley, Leonard C., assignor.)
M. B. Schenk Co., The. (See Bassick, Edgar W., assignor.)
M. B. Schenck Company, The. (See Schenck, Martin B., assignor.)
M. D. Knowlton Company. (See Brockway, Herbert L., assignor.)
M. D. Knowlton Company. (See De Smith, Henry, assignor.)
M. D. Knowlton Company. (See De Smith and Church, assignors.)
M. D. Knowlton Company. (See Jones, John G., assignor.)
M. D. Knowlton Company. (See Knowlton, Mark D., assignor.)
M. D. Knowlton Company. (See Seymour, Charles R., assignor.)
M. H. Treadwell Company. (See Astrom, Carl P., assignor.)
M. S. Wright Company. (See Wright, Morris S., assignor.)
M. T. Davidson Company. (See Drewett, William A., assignor.)
M. T. Davidson Company. (See Stevens, Leon K., assignor.)
Maag, Rudolf, Sindlingen, near Höchst-on-the-Main, assignor to Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany. Vat dyestuff and making same. No. 1,015,329; Jan. 23; Sp. p. 4959; Gaz. vol. 174; p. 856.
Maag, Rudolf, Sindlingen, near Höchst-on-the-Main, assignor to Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany. Brown vat dyestuff and making same. No. 1,018,433; Feb. 27; Sp. p. 4870; Gaz. vol. 175; p. 862.
Maag, Rudolf, Sindlingen, near Höchst-on-the-Main, assignor to Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany. Vat dyestuff and making same. No. 1,025,147; May 7; Sp. p. 76; Gaz. vol. 178; p. 14.
Maar, Charles, White, S. D. Mail-carrier. No. 1,028,894; June 11; Sp. p. 1787; Gaz. vol. 179; p. 313.
Maas, Gottfried H. J., Berlin, Germany. Metal cross-tie for railway-rails. No. 1,034,389; July 30; Gaz. vol. 180; p. 1362.
Maas, Joseph, assignor to American Gas Light Company, Kalamazoo, Mich. Gas-light fixture. No. 1,027,743; May 28; Sp. p. 5787; Gaz. vol. 178; p. 1008.
Maas, Theodor, Berlin-Grunewald, Germany. Gage-glass for boilers and the like. No. 1,039,559; Sept. 24; Gaz. vol. 182; p. 896.
Maass, Robert E., East Orange, N. J. Ice-creeper. No. 1,049,113; Dec. 31; Gaz. vol. 185; p. 1283.
Maassen, August, Salt Lake City, Utah. Centrifugal metal-extractor. No. 1,043,947; Nov. 12; Gaz. vol. 184; p. 348.
Maatschappij Holland Naamloozé Vennootschap tot Installatie van Bakkerijen. (See Vermeulen, Frederik, assignor.)
Mabe, Phil S. (See Massey, Robert F., assignor.)
Mabry, Davis L., Idabel, assignor of one-third to O. W. Wright, Oakland, Okla., and one-third to J. R. Wright, Detroit, Tex. Aeromobile. No. 1,046,820; Dec. 10; Gaz. vol. 185; p. 396.
MacAdams, John L., assignor, by mesne assignments, to W. H. Horn & Brother, Philadelphia, Pa. Stitch-length mechanism for straight-bar knitting-machines. No. 1,030,100; June 18; Sp. p. 4430; Gaz. vol. 179; p. 765.
MacBain, D. R., *et al.* (See Foster, Oliver M., assignor.)
MacBain, Donald R., Cleveland, Ohio. Railway-car ladder. No. 1,043,614; Nov. 5; Gaz. vol. 184; p. 202.
MacCue, James R., Cooma, New South Wales, Australia. Type-writing machine. No. 1,015,810; Jan. 30; Sp. p. 5983; Gaz. vol. 174; p. 1046.
MacCune, John G., *et al.* (See Pihl, Nils H. C., assignor.)

Alphabetical list of patentees—Continued.

MacDonald, Angus E., Detroit, Mich. Combined table and bench. No. 1,016,841; Feb. 6; Sp. p. 1343; Gaz. vol. 175; p. 207.
MacDonald, Archibald A., New Glasgow, Nova Scotia, Canada. Vehicle-wheel. No. 1,018,718; Feb. 27; Sp. p. 5532; Gaz. vol. 175; p. 958.
MacDonald, Benjamin, and W. Thomas, Yatesville, Pa. Street-car stop. No. 1,018,842; Feb. 27; Sp. p. 5795; Gaz. vol. 175; p. 1001.
MacDonald, James A., Boston, Mass. Angle attachment for dental handpieces. No. 1,039,420; Sept. 24; Gaz. vol. 182; p. 847.
MacDonald, Jeremiah E., Pittsfield, Mass. Overshoe for horses and other hoofed animals. No. 1,023,086; Apr. 9; Sp. p. 2835; Gaz. vol. 177; p. 482.
MacDonald, John W., Wilkinsburg, Pa., assignor to The Paragon Heater Company. Heating device. No. 1,024,138; Apr. 23; Sp. p. 5101; Gaz. vol. 177; p. 897.
MacDonald, Joseph D., Butte, Mont. Pneumatic engine or tool. No. 1,043,529; Nov. 5; Gaz. vol. 184; p. 174.
MacDonald, Norman, *et al.* (See Wiggins, George G., assignor.)
MacDonald, William, New Westminster, British Columbia, Canada. Life-saving dress. No. 1,048,555; Dec. 31; Gaz. vol. 185; p. 1089.
MacDonald, William L., Odell, Ill., assignor of one-half to W. F. Cushing, Medford, Mass. Fountain-pen. No. 1,046,821; Dec. 10; Gaz. vol. 185; p. 396.
MacDonald, Wilson P., Toronto, Ontario, Canada, assignor to George G. Fox Company, Boston, Mass. Label. No. 1,013,299; Jan. 2; Sp. p. 474; Gaz. vol. 174; p. 74.
MacDowney, Silas C., Chicago, Ill. Receding awning. No. 1,026,045; May 14; Sp. p. 2087; Gaz. vol. 178; p. 357.
MacDowney, Silas C., Chicago, Ill. Joint connection. No. 1,041,645; Oct. 15; Gaz. vol. 183; p. 729.
MacEwan, Norman E. (See Natt, Charles A., assignor.)
MacFarland, Allison M., Philadelphia, Pa. Safety-razor. No. 1,048,085; Dec. 24; Gaz. vol. 185; p. 892.
MacFarland, Allison M., Philadelphia, Pa., assignor to Auto Novelty Company. Nut-lock. No. 1,015,571; Jan. 23; Sp. p. 5479; Gaz. vol. 174; p. 937.
MacFarland, Allison M., Newark, N. J., assignor to The Kinnear Manufacturing Company, Columbus, Ohio. Spring-roller. No. 1,021,057; Mar. 26; Sp. p. 4357; Gaz. vol. 176; p. 809.
MacFarland, William J., Everett, and W. G. Eaton, Boston, Mass. Forming dies. No. 1,020,297; Mar. 12; Sp. p. 2740; Gaz. vol. 176; p. 464.
MacFarlane, Charles E., Portland, Oreg. Logging system. No. 1,019,170; Mar. 5; Sp. p. 370; Gaz. vol. 176; p. 58.
MacGahan, Paul. (See Conrad and MacGahan.)
MacGregor, Thomas D., Davisville, Ontario, Canada. Hot-water heating-boiler. No. 1,021,416; Mar. 26; Sp. p. 5143; Gaz. vol. 176; p. 931.
MacIndoe, John F., Philadelphia, Pa. Lubricator. No. 1,026,961; May 21; Sp. p. 4157; Gaz. vol. 178; p. 709.
MacIndoe, John F., Philadelphia, Pa. Mechanical razor-stropping device. No. 1,043,242; Nov. 5; Gaz. vol. 184; p. 69.
MacIndoe, John F., assignor of one-half to L. I. Reichner, Philadelphia, Pa. Mechanical razor-stropping device. No. 1,014,602; Jan. 9; Sp. p. 3301; Gaz. vol. 174; p. 549.
MacIndoe, John F., Philadelphia, Pa., assignor to American Engineering & Manufacturing Company. Device for lubricating elevator guide-rails. No. 1,038,165; Sept. 10; Gaz. vol. 182; p. 364.
MacKay, Hugh, Dallas, Tex. Molding-machine. No. 1,021,938; Apr. 2; Sp. p. 383; Gaz. vol. 177; p. 64.
MacKenzie, Fred L., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Tack-pulling machine. No. 1,013,944; Jan. 9; Sp. p. 1913; Gaz. vol. 174; p. 325.
MacKenzie, Fred L., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for inserting fastenings. No. 1,016,947; Feb. 13; Sp. p. 1592; Gaz. vol. 175; p. 281.
MacKenzie, Fred L., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for inserting fastenings. No. 1,045,717; Nov. 26; Gaz. vol. 184; p. 1023.
MacKenzie, George W., Ben Avon, assignor to The Hydraulic Vacuum Cleaning Company, Pittsburgh, Pa. Vacuum cleaning apparatus. (Reissue.) No. 13,427; June 11; Sp. p. 3269; Gaz. vol. 179; p. 548.
MacKenzie, John, Watervliet, N. Y. Seal-lock. No. 1,040,713; Oct. 8; Gaz. vol. 183; p. 387.
MacKusick, Albert R. (See Haskell, Luther D., assignor.)
MacLachlan, John C., Chicago, Ill. Desiccating apparatus. No. 1,038,773; Sept. 17; Gaz. vol. 182; p. 609.
MacLean, John, Toledo, Ohio. Vacuum-creating mechanism for dust-collectors. No. 1,013,606; Jan. 2; Sp. p. 1110; Gaz. vol. 174; p. 179.
MacLean, William J. (See Fletcher and MacLean.)
MacLellan, Archibald S., Alameda, Cal. Cigarette-holder. No. 1,046,396; Dec. 3; Gaz. vol. 185; p. 209.
MacLeod, Donald M. (See Riddick and MacLeod.)
MacLeod, Donald M., Lake Charles, La., assignor of one half to V. Gillet, Jacksonville, Fla. Airship. No 1,023,667; Apr. 16; Sp. p. 4049; Gaz. vol. 177; p. 710.
MacLeod, George S., Seattle, Wash. Horseshoe-pattern holder. No. 1,031,192; July 2; Gaz. vol. 180; p. 122.
MacLewee, Carrie H. (See MacLewee, William S., assignor.)
MacLewee, William S., assignor to C. H. MacLewee, Yardley, Pa. Lamp-socket. No. 1,030,101; June 18; Sp. p. 4433; Gaz. vol. 179; p. 766.
MacLewee, William S., assignor to C. H. MacLewee, Yardley, Pa. Electric switch. No. 1,030,102; June 18; Sp. p. 4434; Gaz. vol. 179; p. 766.
MacMahon, James H. (See Mauran and MacMahon.)
MacNab, Solon M., Mooresville, Ind. Fence-anchor. No. 1,047,097; Dec. 10; Gaz. vol. 185; p. 487.
MacNally, Edward M. (See Schmehl and MacNally.)
MacNaughton, Luther D., Eagle Grove, Iowa. Envelop. No. 1,041,827; Oct. 22; Gaz. vol. 183; p. 830.
MacNicoll, Donald. (See Cockburn and MacNicoll.)
MacPhee, Anderson, New York, N. Y. Temperature-controlling apparatus. No. 1,038,402; Sept. 10; Gaz. vol. 182; p. 444.
MacPherson, John G., Philadelphia, Pa. Explosive-engine locomotive. No. 1,035,798; Aug. 13; Gaz. vol. 181; p. 501.
MacRae, Fred A. (See Holmes, John W., assignor.)
MacWilliam, Frederick A. (See MacWilliam, James E., assignor.)
MacWilliam, James E., assignor to F. A. MacWilliam, Hubbardston, Mass. Nasal douche. No. 1,029,813; June 18; Sp. p. 3798; Gaz. vol. 179; p. 666.
MacWilliam, James F., Hubbardston, Mass. Picker-operating device. No. 1,038,166; Sept. 10; Gaz. vol. 182; p. 364.
Macadam, Walter R. (See Pfannenschmidt, Frederick A., assignor.)
Macaire, Harold C., Chicago, Ill. Water-heater. No. 1,022,637; Apr. 9; Sp. p. 1868; Gaz. vol. 177; p. 327.
Macallen Company, The. (See McLain, William R., assignor.)
Macalpine, John H., Pittsburgh, Pa. Reduction-gearing. No. 1,026,629; May 14; Sp. p. 3370; Gaz. vol. 178; p. 555.
Macario, Joseph. (See Dalboni and Macario.)
Macaulay, Edward, Paignton, England. Apparatus for reducing or neutralizing the noxious fumes resulting from the combustion of nitroglycerin explosives. No. 1,019,502; Mar. 5; Sp. p. 1148; Gaz. vol. 176; p. 169.
Macaulay, Thomas I., Birkenhead, England. Holding and disengaging gear for the boats of ships and the like. No. 1,016,840; Feb. 6; Sp. p. 1341; Gaz. vol. 175; p. 207.
Macbeth, Edgar R., Brazil, Ind. Feed-indicator for valves. No. 1,017,224; Feb. 13; Sp. p. 2226; Gaz. vol. 175; p. 378.
Macbeth-Evans Glass Company. (See Deakin and Schnelbach, assignors.)
Macbeth-Evans Glass Company. (See Young, Lorin W., assignor.)
Macbeth, George A., Pittsburgh, Pa. Lantern-globe. No. 1,048,981; Dec. 31; Gaz. vol. 185; p. 1236.
Macdonald, Angus K. (See Sanborn and Macdonald.)
Macdonald, Angus K., Portland, Me. Combined portable bottle washer and holder. No. 1,044,794; Nov. 19; Gaz. vol. 184; p. 672.
Macdonald, James, New York, N. Y. Holder for neckties, buttons, pins, and like articles. No. 1,014,499; Jan. 9; Sp. p. 3097; Gaz. vol. 174; p. 514.
Macdonald, James M. (See Macdonald, John N., assignor.)
Macdonald, James M., Wethersfield, Conn. Automobile-governor. No. 1,047,096; Dec. 10; Gaz. vol. 185; p. 487.
Macdonald, John N., Hartford, assignor to J. M. Macdonald, Wethersfield, Conn. Chain-repair tool. No. 1,041,826; Oct. 22; Gaz. vol. 183; p. 830.
Macdonald, Peter E. (See Hyle, William A., assignor.)
Macdonald and Sons. (See Hyle, William A., assignor.)
Macdonald, Thomas H., assignor to American Graphophone Company, Bridgeport, Conn. Sound-box for talking-machines. No. 1,014,240; Jan. 9; Sp. p. 2565; Gaz. vol. 174; p. 428.
Macdonald, Thomas H., assignor to American Graphophone Company, Bridgeport, Conn. Re-pressing disk sound-records. No. 1,022,100; Apr. 2; Sp. p. 735; Gaz. vol. 177; p. 117.
Macdonald, Thomas H., assignor to American Graphophone Company, Bridgeport, Conn. Support and sound-duct for sound-boxes. No. 1,024,640; Apr. 30; Sp. p. 6267; Gaz. vol. 177; p. 1103.
Macdonald, Thomas H., assignor to American Graphophone Company, Bridgeport, Conn. Back-spacer for dictaphones. No. 1,030,740; June 25; Sp. p. 6047; Gaz. vol. 179; p. 1031.
Macdonogh, John C. C., London, England. Electric heating element. No. 1,024,998; Apr. 30; Sp. p. 6996; Gaz. vol. 177; p. 1229.
Macdonough, George H., assignor to Potter-Winslow Co., Chicago, Ill. Battery-vault. No. 1,037,160; Aug. 27; Gaz. vol. 181; p. 1037.
Mace, Pliny, Irwin, Pa. Mine-door operator. No. 1,014,886; Jan. 16; Sp. p. 4013; Gaz. vol. 174; p. 678.
Macey, Robert L., Kansas City, Mo. Miter-box. No. 1,030,474; June 25; Sp. p. 5277; Gaz. vol. 179; p. 936.

Alphabetical list of patentees—Continued.

Macfarlane, George F., Wilkes-Barre, Pa. Thread guide and clearing device. No. 1,023,578; Apr. 16; Sp. p. 3881; Gaz. vol. 177; p. 683.
Macfarlane, George F., assignor of one-half to Wilkes-Barre Silk Company, Wilkes-Barre, Pa. Attachment for thread doubling and twisting machines. No. 1,029,382; June 11; Sp. p. 2855; Gaz. vol. 179; p. 480.
Macfarlane, George F., and E. McGroarty, Wilkes-Barre, Pa. Skein-reel. No. 1,027,555; May 28; Sp. p. 5407; Gaz. vol. 178; p. 947.
Macfarlane, James C., and H. Burge, assignors to Crompton and Company Limited, Arc Works, Chelmsford, England. Rotary electric transformer and motor-generator. No. 1,024,410; Apr. 23; Sp. p. 5674; Gaz. vol. 177; p. 988.
Macfarlane, James C., and H. Burge, Chelmsford, assignors to Crompton and Company Limited, Arc Works, Chelmsford, England. Dynamo-electric machine. No. 1,035,717; Aug. 13; Gaz. vol. 181; p. 475.
Macfarlane, James C., and H. Burge, assignors to Crompton & Company Limited, Chelmsford, England. Dynamo-electric machine. No. 1,047,821; Dec. 17; Gaz. vol. 185; p. 775.
Macfarlane, James C., and H. Burge, Arc Works, assignors to Firm of Crompton and Company Limited, Chelmsford, England. Dynamo-electric machine. No. 1,049,114; Dec. 31; Gaz. vol. 185; p. 1283.
Macfarlane, James C., and H. Burge, Arc Works, assignors to Crompton & Company Limited, Chelmsford, England. Electrically-operated motor-vehicle. No. 1,049,115; Dec. 31; Gaz. vol. 185; p. 1283.
Macfarlane, James C., and H. Burge, Arc Works, assignors to Crompton & Company Limited, Chelmsford, England. Electrically-operated motor-vehicle. No. 1,049,247; Dec. 31; Gaz. vol. 185; p. 1327.
Macfarlane, James C., H. Burge, Chelmsford, and A. Williams, London Wall, London, assignors to Crompton & Company, Limited, Chelmsford, England. Means for controlling electrically-operated driving systems. No. 1,019,676; Mar. 5; Sp. p. 1465; Gaz. vol. 176; p. 226.
Macfarlane, James C., H. Burge, Chelmsford, and A. Williams, London Wall, London, assignors to Crompton & Company, Limited, Chelmsford, England. Means for regulating electrically-operated driving systems. No. 1,019,677; Mar. 5; Sp. p. 1468; Gaz. vol. 176; p. 227.
Macfarren, Samuel J., Pittsburgh, Pa. Multicylinder gas-engine. No. 1,031,131; July 2; Gaz. vol. 180; p. 100.
Macfarren, Walter W., Pittsburgh, Pa. Coke-oven door. No. 1,045,864; Dec. 3; Gaz. vol. 185; p. 24.
Mach, William, Tabor, S. D. Well-tiling and mold therefor. No. 1,036,867; Aug. 27; Gaz. vol. 181; p. 938.
Machacek, Charles, Jr., Tabor, S. D. Corn-sheller. No. 1,034,809; Aug. 6; Gaz. vol. 181; p. 138.
Machado, Joseph R., Vallejo, Cal. Aeroplane. No. 1,030,518; June 25; Sp. p. 5405; Gaz. vol. 179; p. 951.
Machate, John, New York, N. Y., assignor to Rice & Hochster. Barette. No. 1,032,353; July 9; Gaz. vol. 180; p. 561.
Machava, Frank, Greensburg, Pa. Wrench. No. 1,021,542; Mar. 26; Sp. p. 5410; Gaz. vol. 176; p. 974.
Machava, Frank, Greensburg, Pa. Beam-compass. No. 1,031,354; July 2; Gaz. vol. 180; p. 178.
Machen, Charles H., assignor to Chelten Electric Company, Philadelphia, Pa. Terminal and contact for snap-switches. No. 1,025,634; May 7; Sp. p. 1186; Gaz. vol. 178; p. 182.
Machen & Mayer Electrical Manufacturing Company. (See Horn, Charles, assignor.)
Machin, Royal H., Fullerton, Cal. Sand-reel for oil-well rigs. No. 1,035,982; Aug. 20; Gaz. vol. 181; p. 602.
Machine Mantle Sewing Company. (See Cohn, Samuel, assignor.) (Reissue.)
Machinery & Specialty Company, The. (See Hanson, Adolf K., assignor.)
Machlet, Adolph W., Elizabeth, N. J. Case-hardening apparatus. No. 1,013,190; Jan. 2; Sp. p. 195; Gaz. vol. 174; p. 35.
Machlet, Adolph W., Elizabeth, N. J. Case-hardening apparatus. No. 1,013,191; Jan. 2; Sp. p. 200; Gaz. vol. 174; p. 35.
Machlet, Adolph W., Elizabeth, N. J. Apparatus for case-hardening and other metal treatment. No. 1,033,815; July 30; Gaz. vol. 180; p. 1159.
Machlet, Adolph W., Elizabeth, N. J. Straightening apparatus. No. 1,045,161; Nov. 26; Gaz. vol. 184; p. 825.
Machlet, George, Jr., Elizabeth, N. J. Heating apparatus. No. 1,033,816; July 30; Gaz. vol. 180; p. 1160.
Machlett, Robert, New York, N. Y. Heat-insulating vessel. No. 1,021,058; Mar. 26; Sp. p. 4358; Gaz. vol. 176; p. 809.
Machlett, Robert H., New York, N. Y. Gas-regulator for X-ray tubes. No. 1,025,635; May 7; Sp. p. 1187; Gaz. vol. 178; p. 182.
Machol, Morris R., Staten Island, assignor of one-fourth to H. S. Colby, New York, N. Y. Furnace. No. 1,013,793; Jan. 2; Sp. p. 1537; Gaz. vol. 174; p. 244.
Maciarz, Frank, Vulcan, Mich. Shoe-support. No. 1,041,499; Oct. 15; Gaz. vol. 183; p. 682.
Mack, James T., Buffalo, N. Y. Scraper for forks. No. 1,016,696; Feb. 6; Sp. p. 1052; Gaz. vol. 175; p. 161.
Mack, Oscar B., and G. R. Gamble, San Diego, Cal. Flash-light lamp. No. 1,048,086; Dec. 24; Gaz. vol. 185; p. 892.
Mack, Oscar H., and W. S. Ferguson, Seattle, Wash. Composition fish-bait. No. 1,045,716; Nov. 26; Gaz. vol. 184; p. 1023.
Mack, Rudolph A., Gallipolis, Ohio. Automatic gas cut-off. No. 1,028,044; May 28; Sp. p. 6487; Gaz. vol. 178; p. 1110.
Mack, Thomas H., Balboa, Canal Zone. Cone-center for lathes. No. 1,015,811; Jan. 30; Sp. p. 5984; Gaz. vol. 174; p. 1047.
Mack, William A., assignor to The Standard Sewing Machine Company, Cleveland, Ohio. Sewing-machine. No. 1,043,329; Nov. 5; Gaz. vol. 184; p. 102.
Mackay, Alfred, *et al.* (See Graf, Richard, assignor.)
Mackay, Donald, Alloa, Scotland. Apparatus for indicating the trim of a ship, vessel, or the like. No. 1,031,799; July 9; Gaz. vol. 180; p. 372.
Mackay, Edmund. (See Ferrall and Mackay.)
Mackay, R. Gordon, *et al.* (See Graf, Richard, assignor.)
Mackay, Robert, Walthamstow, England. Apparatus for boiling water. No. 1,026,592; May 14; Sp. p. 3280; Gaz. vol. 178; p. 542.
Macke, Wilhelm, Marienfelde, Germany. Portable folding dark chamber. No. 1,027,662; May 28; Sp. p. 5625; Gaz. vol. 178; p. 982.
Mackensen, Otto, assignor to Firm of C. Zeiss, Jena, Germany. Telescope-carrier. No. 1,032,011; July 9; Gaz. vol. 180; p. 444.
Mackenzie, Alexander S., Elizabeth, N. J., assignor of one-half to F. Phelps, LittleRock, Ark. Press for extracting liquid from materials. No. 1,030,594; June 25; Sp. p. 5639; Gaz. vol. 179; p. 977.
Mackenzie, David S., Levin, New Zealand. Apparatus for making dental fillings, bridges, and the like. No. 1,048,982; Dec. 31; Gaz. vol. 185; p. 1236.
Mackerey, Charles J., U. S. Navy. Steam-trap. No. 1,044,211; Nov. 12; Gaz. vol. 184; p. 438.
Mackie, Edwin M., Chicago, Ill., and P. F. Doyle, Franklin, Pa., assignors to Chicago Pneumatic Tool Company, Chicago, Ill. Rock-drill. No. 1,042,359; Oct. 22; Gaz. vol. 183; p. 1006.
Mackie, John M., Montreal, Quebec, Canada. Feed-water heater. No. 1,024,641; Apr. 30; Sp. p. 6269; Gaz. vol. 177; p. 1104.
Mackie, Tom D., Bowes Park, and G. F. Forwood, Limpsfield, England. Manufacture of steel. No. 1,024,999; Apr. 30; Sp. p. 7000; Gaz. vol. 177; p. 1230.
Mackie, William, Sidney Mines, Cape Breton, Nova Scotia, Canada. Wrench. No. 1,025,703; May 7; Sp. p. 1317; Gaz. vol. 178; p. 205.
Mackie, William, Sydney Mills, Cape Breton, Nova Scotia, Canada. Envelop. No. 1,048,556; Dec. 31; Gaz. vol. 185; p. 1089.
Mackin, Francis M., Baltimore, Md. Flushing apparatus for water-closets. No. 1,024,010; Apr. 23; Sp. p. 4795; Gaz. vol. 177; p. 852.
Mackintosh, Ernest K., Washington, D. C. Mechanism for operating a hand of a dial. No. 1,019,065; Mar. 5; Sp. p. 112; Gaz. vol. 176; p. 21.
Mackintosh Hemphill & Co. (See Nisbet, David F., assignor.)
Mackintosh, John, Halifax, England. Jar, bottle, canister, or like vessel for holding sweetmeats and stopper therefor. No. 1,016,508; Feb. 6; Sp. p. 623; Gaz. vol. 175; p. 95.
Mackintosh, John, Paisley, Scotland. Telemotor-gear. No. 1,039,157; Sept. 24; Gaz. vol. 182; p. 753.
Macklin, Are L., Bryant, Ind. Alarm. No. 1,042,244; Oct. 22; Gaz. vol. 183; p. 968.
Macklin, Frank J., F. W. Trimmer, and C. Harbison, assignors to The United Seal Company, Columbus, Ohio. Locking device for boxes and the like. No. 1,033,025; July 16; Gaz. vol. 180; p. 831.
Macklind, William R., Mineral Point, Mo. Hydrotrain. No. 1,014,313; Jan. 9; Sp. p. 2711; Gaz. vol. 174; p. 452.
Mackneer, Roy W., Moorefield, W. Va. Swing. No. 1,025,819; May 7; Sp. p. 1558; Gaz. vol. 178; p. 246.
Maclachlan, Angus, Brooklyn, N. Y., assignor to Hammond Iron Works, Warren, Pa. Apparatus for reducing sewage and the like. No. 1,035,797; Aug. 13; Gaz. vol. 181; p. 501.
Maclaren, James G., Weehawken, assignor to Lamson Consolidated Store Service Company, Newark, N. J. Pneumatic-despatch-tube apparatus. No. 1,031,800; July 9; Gaz. vol. 180; p. 373.
Maclaren, James G., Weehawken, assignor to Lamson Consolidated Store Service Company, Newark, N. J. Pneumatic-despatch-tube apparatus. No. 1,032,150; July 9; Gaz. vol. 180; p. 489.
Maclaren, James G., Weehawken, assignor to Lamson Consolidated Store Service Company, Newark, N. J. Blower-unloading device. No. 1,047,959; Dec. 24; Gaz. vol. 185; p. 850.
Macleod, Albert A., Swampscott, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Lasting mechanism. No. 1,030,519; June 25; Sp. p. 5407; Gaz. vol. 179; p. 951.

Alphabetical list of patentees—Continued.

Macleod, Walter, Fort Thomas, Ky., and W. Hext, Cincinnati, Ohio. Sand-blast device. No. 1,026,688; May 21; Sp. p. 3517; Gaz. vol. 178; p. 613.
Macmanus, Augustus F. W., Pine Bluff, Ark. Strut. No. 1,042,808; Oct. 29; Gaz. vol. 183; p. 1192.
Macneir, Edwin. (See Mauger, Ralph A., assignor.)
Macnish, Frederick J., Oak Park, assignor to Creamery Package Manufacturing Company, Chicago, Ill. Pasteurizer. No. 1,023,323; Apr. 16; Sp. p. 3377; Gaz. vol. 177; p. 602.
Macom, John N., and L. B. Walker, Poplar Bluff, Mo. Display-cabinet. No. 1,044,677; Nov. 19; Gaz. vol. 184; p. 630.
Macomber, Walter G., Los Angeles, Cal. Rotary engine. No. 1,042,018; Oct. 22; Gaz. vol. 183; p. 894.
Macomber, William I., Providence, R. I. Lady's hat-pin. No. 1,016,697; Feb. 6; Sp. p. 1053; Gaz. vol. 175; p. 161.
Macon, John. (See Berry and Macon.)
Macowsky, Isaac, and M. Holzer, San Francisco, Cal. Coacting car brake and fender. No. 1,018,978; Feb. 27; Sp. p. 6093; Gaz. vol. 175; p. 1048.
Macpherson, Robert, Brondesbury, and W. E. Heys, Bushey, England. Manufacture of detersive agents. No. 1,027,744; May 28; Sp. p. 5788; Gaz. vol. 178; p. 1009.
Macrae, Roderick, Chicago, Ill. Electric vehicle. No. 1,038,615; Sept. 17; Gaz. vol. 182; p. 553.
Macwatty, Duncan, *et al.* (See Flynt, Edward E., assignor.)
Madara, William V., *et al.* (See Griffinberg, John W., assignor.)
Madden, Armand S., Chicago, Ill. Display-rack. No. 1,015,448; Jan. 23; Sp. p. 5208; Gaz. vol. 174; p. 895.
Madden, Edward, Amsterdam, N. Y. Vaporizer. No. 1,020,430; Mar. 19; Sp. p. 3015; Gaz. vol. 176; p. 546.
Madden, Edward J., assignor to The Hawthorne Manufacturing Company, Bridgeport, Conn. Retaining device for lenses and the like. No. 1,048,983; Dec. 31; Gaz. vol. 185; p. 1237.
Madden, Edwin C., St. Louis, Mo. Safety-razor. No. 1,022,429; Apr. 9; Sp. p. 1437; Gaz. vol. 177; p. 257.
Madden, Frank J., Albert Lea, assignor of one-half to O. K. Earle, Minneapolis, Minn. Automatic cut-off valve for gas-burners. No. 1,035,208; Aug. 13; Gaz. vol. 181; p. 300.
Madden, Harry D., Bloomfield, N. J., assignor to Westinghouse Lamp Company. Vacuum-pump. No. 1,031,801; July 9; Gaz. vol. 180; p. 373.
Madden, Harry D., Bloomfield, N. J., assignor to Westinghouse Lamp Company. Tension device. No. 1,046,822; Dec. 10; Gaz. vol. 185; p. 396.
Madden, Patrick J., Chicago, Ill. Plumbing-fixture. No. 1,022,146; Apr. 2; Sp. p. 839; Gaz. vol. 177; p. 133.
Madden, Patrick J., Chicago, Ill. Plumbing-fixture. No. 1,022,147; Apr. 2; Sp. p. 841; Gaz. vol. 177; p. 133.
Madden, Patrick J., Chicago, Ill. Plumbing-fixture. No. 1,035,457; Aug. 13; Gaz. vol. 181; p. 388.
Madden, Patrick J., Chicago, Ill. Drinking-fountain. No. 1,038,916; Sept. 17; Gaz. vol. 182; p. 659.
Madden, Thomas E., assignor to himself and J. C. Hancock, Indianapolis, Ind. Short-circuiter for reversed spark-generators. No. 1,027,388; May 21; Sp. p. 5076; Gaz. vol. 178; p. 854.
Maddock, Edward S., Kenosha, Wis., and J. M. Cobb, Chicago, Ill. Record-card. No. 1,029,702; June 18; Sp. p. 3560; Gaz. vol. 179; p. 628.
Maddox, Charlie H., Canton, Mo. Tire-armor. No. 1,025,285; May 7; Sp. p. 383; Gaz. vol. 178; p. 62.
Maddox, Harvey B., Magee, Miss. Rail-joint. No. 1,042,702; Oct. 29; Gaz. vol. 183; p. 1155.
Maddox, Inez, Bombay, India. Bracelet and bangle. No. 1,016,023; Jan. 30; Sp. p. 6440; Gaz. vol. 174; p. 1121.
Maddox, William F., Linton, Ind. Automatic valve for mine-pumps. No. 1,016,573; Feb. 6; Sp. p. 797; Gaz. vol. 175; p. 118.
Maddox, William T., Alexandria, La. Buggy or wagon greaser. No. 1,038,917; Sept. 17; Gaz. vol. 182; p. 659.
Madeleine, Marie, *et al.* (See Langlois, Jean, assignor.)
Madero, Eduardo J. M., Buenos Aires, Argentina. Rotary engine. No. 1,028,371; June 4; Sp. p. 676; Gaz. vol. 179; p. 102.
Madero, Eduardo J. M., Buenos Aires, Argentina. Rotary engine. No. 1,048,844; Dec. 31; Gaz. vol. 185; p. 1190.
Madigan, Patrick J., and J. Rehak, Chicago, Ill. Postmarking-machine. No. 1,039,560; Sept. 24; Gaz. vol. 182; p. 897.
Madison, Emiel, Mariner Harbor, N. Y. Non-refillable bottle. No. 1,042,937; Oct. 29; Gaz. vol. 183; p. 1235.
Madison, H. Flood. (See Smith, William M., assignor.)
Madison, Hans P., Fort Smith, Ark. Screw-plate. No. 1,040,365; Oct. 8; Gaz. vol. 183; p. 263.
Madison Machine Company. (See Conradson, Conrad M., assignor.)
Madison, Ole B., St. Johns, Oreg. Chimney cap and ventilator. No. 1,035,024; Aug. 6; Gaz. vol. 181; p. 207.
Madison, Walter G., Ames, Iowa. Flying-machine. No. 1,047,098; Dec. 10; Gaz. vol. 185; p. 487.
Madonna, Charles J., New York, N. Y. Hot-water heater and sterilizer. No. 1,047,668; Dec. 17; Gaz. vol. 185; p. 723.
Madsen, Charles, Buffalo, N. Y. Patient-supporter. No. 1,015,812; Jan. 30; Sp. p. 5985; Gaz. vol. 174; p. 1047.
Madsen, Charles P., assignor to Pelouze Electric Heater Co., Chicago, Ill. Electrical heater. No. 1,014,161; Jan. 9; Sp. p. 2377; Gaz. vol. 174; p. 397.
Madsen, Charles P., assignor to Pelouze Electric Heater Co., Chicago, Ill. Combination sad-iron and cooker. No. 1,018,576; Feb. 27; Sp. p. 5247; Gaz. vol. 175; p. 911.
Madsen, Charles P., assignor to Pelouze Electric Heater Co., Chicago, Ill. Electric curling-iron. No. 1,018,673; Feb. 27; Sp. p. 5440; Gaz. vol. 175; p. 943.
Madsen, Charles P., assignor, by mesne assignments, to Pelouze Manufacturing Company, Chicago, Ill. Electric heater. No. 1,023,475; Apr. 16; Sp. p. 3667; Gaz. vol. 177; p. 650.
Madsen, Charles P., assignor, by mesne assignments, to Pelouze Manufacturing Company, Chicago, Ill. Electric heater. No. 1,034,130; July 30; Gaz. vol. 180; p. 1270.
Madsen, Charles P., assignor, by mesne assignments, to Pelouze Manufacturing Company, Chicago, Ill. Electric heating device. No. 1,034,265; July 30; Gaz. vol. 180; p. 1318.
Madsen, Charles P., assignor to Pelouze Manufacturing Company, Chicago, Ill. Disk stove. No. 1,034,810; Aug. 6; Gaz. vol. 181; p. 138.
Madsen, Charles P., assignor, by mesne assignments, to Pelouze Manufacturing Company, Chicago, Ill. Electric switch for sad-irons. No. 1,036,868; Aug. 27; Gaz. vol. 181; p. 939.
Madsen, Charles P., Salt Lake City, Utah, assignor to Pelouze Manufacturing Company, Chicago, Ill. Sad-iron. No. 1,034,129; July 30; Gaz. vol. 180; p. 1270.
Madsen, Mads O., Asnas, Denmark. Straw-press with automatic bundle-measurer and needle-controller. No. 1,027,868; May 28; Sp. p. 6129; Gaz. vol. 178; p. 1052.
Madsen, Nils, Westville, N. J. Mowing-machine. No. 1,041,312; Oct. 15; Gaz. vol. 183; p. 621.
Madson, William P., R. Christenson, A. Ingbretson, and W. Nowship, Milwaukee, Wis. Device for twisting stay-wires. No. 1,045,994; Dec. 3; Gaz. vol. 185; p. 67.
Maertens, Emile, Providence, R. I. Making metal tubes and similar articles. No. 1,039,065; Sept. 17; Gaz. vol. 182; p. 704.
Magee, Francis L., assignor of one-eighth to I. F. Peirsel, one-eighth to G. L. Moore, one-eighth to W. N. Parson, and one-eighth to J. A. Gibson, South Brownsville, Pa. Metallic tie. No. 1,045,050; Nov. 19; Gaz. vol. 184; p. 760.
Magee, Guy, Jr., Wilmette, Ill. Package. No. 1,036,661; Aug. 27; Gaz. vol. 181; p. 872.
Magee, James, 2nd. (See McCollum, Alfred F., assignor.)
Magee, John W., Norfield, Miss. Harrow. No. 1,041,313; Oct. 15; Gaz. vol. 183; p. 621.
Magee, Walter S., Bath, S. C. Cloth-roll grip. No. 1,024,089; Apr. 23; Sp. p. 4974; Gaz. vol. 177; p. 879.
Magee, William J., assignor to Southern Stamping & Die Works, New Orleans, La. Switchboard. No. 1,043,615; Nov. 5; Gaz. vol. 184; p. 203.
Magerstadt, Ernest J. (See Mercier, Joseph T., assignor.)
Magidson, Frank, Pittsburgh, Pa., assignor to Royal Automatic Machine Company. Machine for manufacturing sheet-metal pipe. No. 1,023,115; Apr. 9; Sp. p. 2895; Gaz. vol. 177; p. 492.
Magie, Wilber R., Indianapolis, Ind. Machine for wiring sheet metal. No. 1,048,984; Dec. 31; Gaz. vol. 185; p. 1237.
Magill, Joseph A., Govan, Wash. Machine for punching holes in the ground for the purpose of irrigation. No. 1,044,404; Nov. 12; Gaz. vol. 184; p. 505.
Magner, Thomas J., deceased, Olean, N. Y.; G. A. Larkin, administrator. Vehicle-spring. No. 1,033,429; July 23; Gaz. vol. 180; p. 1007.
Magnetic Pigment Company. (See Fireman, Peter, assignor.)
Magni, Umberto, San Francisco, Cal. Combined valve and water-meter. No. 1,045,865; Dec. 5; Gaz. vol. 185; p. 24.
Magnus, Edward H., Toledo, Ohio. Device for smoothing holes in resetting shoe-buttons. No. 1,027,057; May 21; Sp. p. 4372; Gaz. vol. 178; p. 742.
Magnus, John. (See Dalton and Magnus.)
Magnuson, Archie, Spencer, Iowa. Basin. No. 1,049,116; Dec. 31; Gaz. vol. 185; p. 1284.
Magnuson, Axel, New York, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Spring-motor mechanism and attachment for operating elevator-safeties. No. 1,034,472; Aug. 6; Gaz. vol. 181; p. 23.
Magnuson, Axel, New York, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Electric motor mechanism for operating elevator-safeties. No. 1,040,555; Oct. 8; Gaz. vol. 183; p. 329.
Magnuson, Axel B., Cambridge, Mass. Hose-coupling. No. 1,020,615; Mar. 19; Sp. p. 3423; Gaz. vol. 176; p. 606.
Magnuson, Nels, assignor to The Packard Company, Fort Wayne, Ind. Pneumatic actuating unit. No. 1,041,125; Oct. 15; Gaz. vol. 183; p. 557.
Magnusson, John A., assignor of one-half to P. R. Tanzy, Tacoma, Wash. Bolt-extractor. No. 1,019,718; Mar. 5; Sp. p. 1537; Gaz. vol. 176; p. 239.

Alphabetical list of patentees—Continued.

Magoon, Edwin C., assignor of one-half to D. W. Flynn, Galesburg, Ill. Ladder-foot. No. 1,025,474; May 7; Sp. p. 820; Gaz. vol. 178; p. 128.
Magor, Basil, New York, N. Y. Underframe for cars. No. 1,016,165; Jan. 30; Sp. p. 6726; Gaz. vol. 174; p. 1169.
Magruder, Charles A. (See Smith, James M., assignor.)
Maguire, Charlotta A., Chicago, Ill. Garment-stay. No. 1,035,983; Aug. 20; Gaz. vol. 181; p. 602.
Maguire, John R., Philadelphia, Pa. Car-fender. No. 1,018,123; Feb. 20; Sp. p. 4212; Gaz. vol. 175; p. 724.
Maguire, Joseph T., Washington, D. C. Dial and pointer for price-computing scales. No. 1,042,360; Oct. 22; Gaz. vol. 183; p. 1006.
Mahaffey, Carl. (See Wilson, James G., assignor.)
Mahaffey, Newton, W., Stockton, Cal. Hydrocarbon-burner. No. 1,041,828; Oct. 22; Gaz. vol. 183; p. 830.
Mahan, James J. (See Moran and Mahan.)
Mahan, James J., Jersey City, N. J. Toy. No. 1,019,266; Mar. 5; Sp. p. 567; Gaz. vol. 176; p. 91.
Maher, James, East Liverpool, Ohio. Pipe-wrench. No. 1,016,079; Jan. 30; Sp. p. 6576; Gaz. vol. 174; p. 1141.
Maher, James M., Fremont, and E. Bignell, Lincoln, Nebr. Combination land-claiming and current-controlling means for silt-bearing streams. No. 1,031,077; July 2; Gaz. vol. 180; p. 81.
Mahieu, Hilaire, New York, N. Y. Glove. No. 1,037,946; Sept. 10; Gaz. vol. 182; p. 292.
Mahler, Albert J., assignor, by mesne assignments, to I. R. Rehm, Chicago, Ill. Folding cover. No. 1,036,662; Aug. 27; Gaz. vol. 181; p. 872.
Mahlstedt, John F. (See Fanslow, Benjamin O., assignor.)
Mahlstedt, John F., Los Angeles, Cal. Printing-press. No. 1,016,756; Feb. 6; Sp. p. 1167; Gaz. vol. 175; p. 180.
Mahlstedt, John F., Los Angeles, Cal. Ink-fountain. No. 1,018,434; Feb. 27; Sp. p. 4870; Gaz. vol. 175; p. 862.
Mahlstedt, John F., Los Angeles, Cal. Printing-machine. No. 1,041,314; Oct. 15; Gaz. vol. 183; p. 621.
Mahoney, Denis J., Winona, Minn. Attachment for planters. No. 1,035,025; Aug. 6; Gaz. vol. 181; p. 207.
Mahoney, James T., Worcester, Mass. Safety starting device. No. 1,043,121; Nov. 5; Gaz. vol. 184; p. 25.
Mahoney, Jeremiah L. (See Murray, James A., assignor.)
Mahoney, Jeremiah L., assignor of one-half to J. A. Murray, New Haven, Conn. Apparatus for making water-bags. No. 1,035,616; Aug. 13; Gaz. vol. 181; p. 441.
Mahoney, John R., Washington, D. C. Display-rack. No. 1,026,593; May 14; Sp. p. 3283; Gaz. vol. 178; p. 543.
Mahoney, Joseph N., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Circuit-breaker. No. 1,045,866; Dec. 3; Gaz. vol. 185; p 24.
Mahoney, Joseph T. (See Hobbs, James J., assignor.)
Mahoney, Martin L., Corliss, assignor of one-half to Sisters of St. Dominic, Racine, Wis. Windmill. No. 1,036,128; Aug. 20; Gaz. vol. 181; p. 654.
Mahoney, William M., Toledo, Ohio. Caliper attachment. No. 1,015,813; Jn. 30; Sp. p. 5987; Gaz. vol. 174; p. 1047.
Maier, Louis H., New York, N. Y. Musical instrument. No. 1,034,811; Aug. 6; Gaz. vol. 181; p. 139.
Maier, William, Buffalo, N. Y. Caster. No. 1,015,572; Jan. 23; Sp. p. 5480; Gaz. vol. 174; p. 938.
Maihak, Firm of H. (See Böttcher and Lehmann, assignors.)
Mailey, Roy D. (See Krauss and Mailey.)
Mailloux, Cyprien O., and H. J. Westover, New York, N. Y. Indicating gas-analyzer. No. 1,014,241; Jan. 9; Sp. p. 2566; Gaz. vol. 174; p. 428.
Mailloux, Cyprien O., and H. J. Westover, New York, N. Y. Automatic draft-modifier. No. 1,043,616; Nov. 5; Gaz. vol. 184; p. 203.
Main, Fred F., Chicago, Ill., assignor, by mesne assignments, to J. T. Underwood, Brooklyn, N. Y. Combined type-writing and computing machine. No. 1,013,670; Jan. 2; Sp. p. 1281; Gaz. vol. 174; p. 201.
Main, Fred F., Columbus, assignor to Main Return Company, Cleveland, Ohio. Automatic writing-machine. No. 1,034,131; July 30; Gaz. vol. 180; p. 1271.
Main Return Company. (See Main, Fred F., assignor.)
Main, William, Piermont, N. Y. Tube-mill grinder. No. 1,043,855; Nov. 12; Gaz. vol. 184; p. 315.
Maine Development Corporation. (See Goodyear, Nelson. assignor.)
Maine, Herbert E., Providence, R. I. Portable self-contained weighing and measuring apparatus. No. 1,015,739; Jan. 23; Sp. p. 5838; Gaz. vol. 174; p. 995.
Maine, Herbert E., Providence, R. I. Insole-smoothing implement for shoes. No. 1,036,129; Aug. 20; Gaz. vol. 181; p. 654.
Mainer, William L., assignor of one-half to J. M. Hubert, Lamb, Tex. Mail-handling apparatus. No. 1,028,755; June 4; Sp. p. 1484; Gaz. vol. 179; p. 230.
Mainer, William L., assignor of one-half to J. M. Hubert, Lamb, Tex. Mail-receiving apparatus. No. 1,028,756; June 4; Sp. p. 1486; Gaz. vol. 179; p. 230.
Mainker, Rubin, Bayonne, assignor of one-half to M. Lichtiger, Newark, N. J. Corner-fastener for bedsteads. No. 1,047,669; Dec. 17; Gaz. vol. 185; p. 723.
Mainville, John B., Alpena, Mich. Log-car stake. No. 1,031,132; July 2; Gaz. vol. 180; p. 101.
Mainwaring, Charles E. F. M. (See Forty, William H., assignor.)
Mainzer, Herbert R., New York, N. Y. Paper-cutter. No. 1,047,426; Dec. 17; Gaz. vol. 185; p. 636.
Maisenbacher, Fritz, and T. Bürck, Pforzheim, Germany. Soldering single links of solid wire chains. No. 1,027,869; May 28; Sp. p. 6131; Gaz. vol. 178; p. 1052.
Maitland, George, Detroit, Mich. Vacuum-cleaner. No. 1,038,167; Sept. 10; Gaz. vol. 182; p. 364.
Maiworm, Frank, and C. E. Mitchell, Chicago, Ill. Self-heating flat-iron. No. 1,023,947; Apr. 23; Sp. p. 4678; Gaz. vol. 177; p. 830.
Maize, Frank P., Newark, N. J. Prepay-car. No. 1,032,225; July 9; Gaz. vol. 180; p. 516.
Maize, Frank P., Newark, N. J. Gear-case. No. 1,048,328; Dec. 24; Gaz. vol. 185; p. 973.
Maize, Frank P., Portland, Oreg. Controller-regulator. No. 1,044,212; Nov. 12; Gaz. vol. 184; p. 439.
Maize Sugar & Cellulose Company. (See Stewart, Francis L., assignor.)
Majestic Furnace and Foundry Company. (See Triggs, James M., assignor.)
Majestic Manufacturing Company. (See Henry, Frank R., assignor.)
Makarhof, John A., assignor of forty-nine one-hundredths to F. R. Belt and fifty-one one-hundredths to G. A. Baird, Chicago, Ill. Safety-trimmer for corns and calli. No. 1,016,343; Feb. 6; Sp. p. 244; Gaz. vol. 175; p. 38.
Makarhof, John A., assignor of forty-nine one-hundredths to F. R. Belt and fifty-one one-hundredths to G. A. Baird, Chicago, Ill. Safety-razor. No. 1,016,344; Feb. 6; Sp. p. 247; Gaz. vol. 175; p. 38.
Makepeace, Bertrand L. (See Heinrich, Stephen J., assignor.)
Maker, Ralph K., assignor to B. A. Ballou and Company, Inc., Providence, R. I. Pin. No. 1,031,355; July 2; Gaz. vol. 180; p. 178.
Makin Heating Company, The. (See Makin and Schellman, assignors.)
Makin, John S., and H. A. Schellman. assignors to The Makin Heating Company, Philadelphia, Pa. Auxiliary water-heater. No. 1,022,148; Apr. 2; Sp. p. 842; Gaz. vol. 177; p. 133.
Makin, John S., and H. A. Schellman, assignors to The Makin Heating Company, Philadelphia, Pa. Deflector for heaters. No. 1,022,854; Apr. 9; Sp. p. 2358; Gaz. vol. 177; p. 403.
Makowacz, Martin, Pittsburgh, Pa. Folding umbrella. No. 1,022,855; Apr. 9; Sp. p. 2360; Gaz. vol. 177; p. 403.
Makowski, Albert, Meriden, Conn. Spirit-level. No. 1,018,719; Feb. 27; Sp. p. 5533; Gaz. vol. 175; p. 958.
Makowski, John F., assignor to The Roebling Construction Company, San Francisco, Cal. Clip for fireproof construction. No. 1,027,425; May 28; Sp. p. 5160; Gaz. vol. 178; p. 904.
Makranvey, Mihalj, *et al.* (See Vitoszki, Mike, assignor.)
Malachowiski, Hermann. (See Rühling, Waldemar, assignor.)
Malacina, Maciej. (See Olas, Blażej, assignor.)
Malchow, William, Natoma, Kans. Folding crate. No. 1,017,573; Feb. 13; Sp. p. 2942; Gaz. vol. 175; p. 497.
Malcolm, George W., Davenham, and F. T. Munton, Winsford, assignors to The Salt Union, Limited, Liverpool, England. Treatment of brine. No. 1,025,411; May 7; Sp. p. 668; Gaz. vol. 178; p. 105.
Malcolm, George W., Davenham, and F. T. Munton, Winsford, assignors to The Salt Union Limited, Liverpool, England. Treatment of brine. No. 1,030,103; June 18; Sp. p. 4436; Gaz. vol. 179; p. 766.
Malcom, Robert, Chicago, Ill. Eye-shield. No. 1,031,859; July 9; Gaz. vol. 180; p. 394.
Malde, Daniel. Stavanger, Norway. Can forming and trimming machine. No. 1,035,984; Aug. 20; Gaz. vol. 181; p. 602.
Malek, Josef, Braceville, Ill. Tie and rail-fastener. No. 1,019,503; Mar. 5; Sp. p. 1149; Gaz. vol. 176; p. 169.
Malerich, Joseph. (See Martin and Scheiler, assignors.)
Maley, Fred W., Bakersfield, Cal. Absorbent comb. No. 1,039,982; Oct. 1; Gaz. vol. 183; p. 104.
Maley, George, and F. Schweinfurth, Sandusky, Ohio. Cabinet. No. 1,034,632; Aug. 6; Gaz. vol. 181; p. 76.
Malgady, Henry G., Jersey City, N. J. Car-door. No. 1,033,026; July 16; Gaz. vol. 180; p. 831.
Malinovszky, Andrew, Schenectady, N. Y., assignor of one-half to J. J. Urschel, Toledo, Ohio. Ventilating device. No. 1,047,960; Dec. 24; Gaz. vol. 185; p. 851.
Malinovszky, Andrew, Toledo, Ohio, assignor of one-fourth to J. H. Taylor and three-fourths to The Sanitary Brick Company, Schenectady, N. Y. Brick, tile, or analogous article and making same. No. 1,016,345; Feb. 6; Sp. p. 248; Gaz. vol. 175; p. 39.
Maljkovich, John, New York, N. Y. Flying-machine. No. 1,036,287; Aug. 20; Gaz. vol. 181; p. 710.
Mallam, Guy H., Kansas City, Mo. Paper-creasing machine. No. 1,013,411; Jan. 2; Sp. p. 704; Gaz. vol. 174; p. 112.
Malle Little Grip Company, The. (See Pritzkow, Malle L., assignor.)

Alphabetical list of patentees—Continued.

Mallery Manufacturing Company. (See Waldvogel, Paul E., assignor.)
Mallett, Raymond A. (See Shermund and Mallett.)
Mallette, Emmor M., Chicago, Ill. Sharpening device. No. 1,025,412; May 7; Sp. p. 670; Gaz. vol. 178; p. 105.
Mallin, Isaac H., assignor of one-half to T. W. McDougal, Chicago, Ill. Carbon-sheet. No. 1,032,918; July 16; Gaz. vol. 180; p. 796.
Mallins, Charles W., Liverpool, England. Starting motor-vehicle internal-combustion engines. No. 1,023,212; Apr. 16; Sp. p. 3154; Gaz. vol. 177; p. 564.
Mallon, Charles, Chicago, Ill. Checking system and check therefor. No. 1,015,573; Jan. 23; Sp. p. 5481; Gaz. vol. 174; p. 938.
Mallory, Dwight F., *et al.* (See Vogt, Jesse S., assignor.)
Mallory, Edward B., Wilkinsburg, assignor to Economy Fuse & Manufacturing Co., Pittsburgh, Pa. Refillable cartridge-fuse. No. 1,045,051; Nov. 19; Gaz. vol. 184; p. 760.
Mallory, Ogden, Oakland, Cal. Riveting-machine attachment. No. 1,017,436; Feb. 13; Sp. p. 2666; Gaz. vol. 175; p. 451.
Mallory, William B., Hermosa, S. D. Spring wheel-tire. No. 1,041,829; Oct. 22; Gaz. vol. 183; p. 831.
Malloy, Edward T., Hamilton, Ohio. Smoke-house. No. 1,016,698; Feb. 6; Sp. p. 1054; Gaz. vol. 175; p. 162.
Malmgren, Nels, L. N. Todd, and S. J. Watson, Canton, Ill. Trolley-wire-cleaning device. No. 1,030,670; June 25; Sp. p. 5883; Gaz. vol. 179; p. 1006.
Malmquist, Adolph, assignor to Perfect Vacuum Can Co., Chicago, Ill. Machine for sealing cans. No. 1,039,770; Oct. 1; Gaz. vol. 183; p. 34.
Malmquist, Robert C., New Haven, Conn. Spray attachment for hose-nozzles. No. 1,044,795; Nov. 19; Gaz. vol. 184; p. 672.
Malmsten, Nils K. E. (See Thorssell and Malmsten.)
Malmsten, Nils K. E., and K. T. Thorssell, Malmö, Sweden. Crumbling device for superphosphate and other materials. No. 1,026,273; May 14; Sp. p. 2603; Gaz. vol. 178; p. 436.
Malmstrom, Peter E., assignor of one-half to A. M. Sloss, New York, N. Y. Siphon-bottle. No. 1,018,124; Feb. 20; Sp. p. 4213; Gaz. vol. 175; p. 724.
Malo, Huzeb A., Hammond, Ind. Horseshoe. No. 1,043,856; Nov. 12; Gaz. vol. 184; p. 315.
Malocsay, Francis X., Jersey City, N. J., assignor to W. H. Heulings, Philadelphia, Pa. Car-door. No. 1,024,797; Apr. 30; Sp. p. 6594; Gaz. vol. 177; p. 1159.
Malocsay, Francis X., assignor to W. Steinert Sons & Company, New York, N. Y. Drier for gummed sheets. No. 1,043,447; Nov. 5; Gaz. vol. 184; p. 144.
Malone, Adolphus W. (See Aster and Malone.)
Malone, Charles W., Detroit, Mich. Non-refillable bottle. No. 1,040,714; Oct. 8; Gaz. vol. 183; p. 387.
Malone, John J., New Haven, Conn. Door-latch. No. 1,033,110; July 23; Gaz. vol. 180; p. 899.
Malone, John J., New Haven, Conn. Vehicle-door latch. No. 1,035,617; Aug. 13; Gaz. vol. 181; p. 442.
Malone, Oscar C., Wellston, Okla. Oiling attachment for brooms. No. 1,048,715; Dec. 31; Gaz. vol. 185; p. 1145.
Maloney, John. (See Brown and Maloney.)
Maloney, John E. (See Babcock, Frank A., assignor.)
Maloney, William, Ottawa, Ontario, Canada. Elevated railway. No. 1,019,331; Mar. 5; Sp. p. 731; Gaz. vol. 176; p. 113.
Maloy, William H., Suffern, assignor to E. H. Fallows, New York, N. Y. Back for brake-shoes. No. 1,019,812; Mar. 12; Sp. p. 1730; Gaz. vol. 176; p. 303.
Maloz, David H., *et al.* (See Maloz, Walter C., assignor.)
Maloz, Walter C., assignor of one-third to D. H. Maloz, Patterson, and one-third to W. P. Brady, New Orleans, La. Liquid-dispenser. No. 1,029,076; June 11; Sp. p. 2176; Gaz. vol. 179; p. 375.
Malsin, Albert, New York, N. Y. Garment. No. 1,046,620; Dec. 10; Gaz. vol. 185; p. 325.
Maltbie, Birdsey L., East Orange, N. J. Medicinal and pharmaceutical preparation. No. 1,047,961; Dec. 24; Gaz. vol. 185; p. 851.
Maltby, Arthur I., and E. C. Doolittle, Wallingford, Conn., assignors of three-fourths to said Maltby and one-fourth to said Doolittle. Machine for surfacing wood floors. No. 1,039,983; Oct. 1; Gaz. vol. 183; p. 104.
Malvern, Lewis K., assignor to Elgin National Watch Company, Elgin, Ill. Jeweler's gage. No. 1,020,832; Mar. 19; Sp. p. 3892; Gaz. vol. 176; p. 680.
Maly, Charles, Braceville, Ill. Metallic tie and rail-fastener. No. 1,025,704; May 7; Sp. p. 1319; Gaz. vol. 178; p. 205.
Manchester, Ernest F., Randolph, Vt. Pool-register. No. 1,030,786; June 25; Sp. p. 6195; Gaz. vol. 179; p. 1047.
Manchester, Thomas H., assignor to Chicago Car Heating Company, Chicago, Ill. Hose-coupling. No. 1,019,979; Mar. 12; Sp. p. 2073; Gaz. vol. 176; p. 358.
Manchester, Thomas H., assignor to Chicago Car Heating Company, Chicago, Ill. Pressure-reducing device. No. 1,022,322; Apr. 2; Sp. p. 1183; Gaz. vol. 177; p. 190.
Manchester, Thomas H., and E. H. Gold, Chicago, Ill.; said Manchester assignor to said Gold. Hose-coupling. No. 1,019,980; Mar. 12; Sp. p. 2075; Gaz. vol. 176; p. 358.
Mancini, Vincenzo, Schenectady, N. Y. Detachable horseshoe. No. 1,037,947; Sept. 10; Gaz. vol. 182; p. 292.
Mandak, Michael, Slatyfork, W. Va. Hat-retainer. No. 1,030,906; July 2; Gaz. vol. 180; p. 19.
Mandley, William J., Shelburne, Ontario, Canada. Machine for grinding lawn-mowers. No. 1,043,948; Nov. 12; Gaz. vol. 184; p. 348.
Mandt, Gunder G., assignor to William Galloway Company, Waterloo, Iowa. Carrier. No. 1,022,687; Apr. 9; Sp. p. 1987; Gaz. vol. 177; p. 344.
Manek, Lawrence, Winipank, Conn. Wrench. No. 1,027,870; May 28; Sp. p. 6132; Gaz. vol. 178; p. 1052.
Maney, Michael J. (See Jones, George W., assignor.)
Maney, Thomas, Louisville, Ky. Track appliance. No. 1,020,298; Mar. 12; Sp. p. 2743; Gaz. vol. 176; p. 464.
Maney, Thomas, Louisville, Ky. Railway-track appliance. No. 1,022,957; Apr. 9; Sp. p. 2580; Gaz. vol. 177; p. 438.
Mangan, John A. (See Bropson, James, assignor.)
Mangiarotti, Arcangelo, Milan, Italy. Pedal mechanism for bicycles. No. 1,020,299; Mar. 12; Sp. p. 2744; Gaz. vol. 176; p. 465.
Mangin, Edward C., Colorado Springs, Colo. Miner's lamp. No. 1,037,948; Sept. 10; Gaz. vol. 182; p. 293.
Mangold, Peter C., Carrolltown, Pa. Lock. No. 1,039,158; Sept. 24; Gaz. vol. 182; p. 754.
Mangum, Zachariah, Silver Spring, Md. Overshoe for horses. No. 1,032,919; July 16; Gaz. vol. 180; p. 796.
Manhattan Briar Pipe Company. (See Glossinger, John, assignor.)
Manheim, Sigwarth, New York, N. Y. Soap-handle. No. 1,027,208; May 21; Sp. p. 4710; Gaz. vol. 178; p. 791.
Manheimer, Abraham, St. Louis, Mo. Bow for ladies' low-cut shoes, slippers, and the like. No. 1,024,517; Apr. 30; Sp. p. 5958; Gaz. vol. 177; p. 1061.
Manierre, George, assignor to Ticknor-Manierre Company, Milwaukee, Wis. Loading-machine. No. 1,037,784; Sept. 3; Gaz. vol. 182; p. 202.
Mankey, Vernon H., Aberdeen, S. D. Head-rest. No. 1,038,403; Sept. 10; Gaz. vol. 182; p. 445.
Manlet, Peter L., assignor of one-fourth to W. J. Kout, St. Paul, Minn. Automatic stop for elevators. No. 1,032,363; July 9; Gaz. vol. 180; p. 564.
Manley, Howard I., Kansas City, Mo. Tire-filling compound and process involving the same. No. 1,025,000; Apr. 30; Sp. p. 7001; Gaz. vol. 177; p. 1230.
Manley, Howard I., Kansas City, Mo., assignor of one-half to R. H. Wright, Durham, N. C. Hydraulic clutch. No. 1,043,617; Nov. 5; Gaz. vol. 184; p. 203.
Manley, John C., assignor to The Inventors Development Company, Chicago, Ill. Lamp-locking device. No. 1,032,618; July 16; Gaz. vol. 180; p. 694.
Manley, John C., J. Thulin, and P. J. Smith, assignors to Inventors Development Co., Chicago, Ill. Lamp-locking device. No. 1,040,366; Oct. 8; Gaz. vol. 183; p. 263.
Manley, John C., J. Thulin, and P. J. Smith, assignors to Inventors Development Co., Chicago, Ill. Lamp-locking device. No. 1,040,367; Oct. 8; Gaz. vol. 183; p. 263.
Manley, Thomas A., assignor to Ohio Tool Company, Auburn, N. Y. Plane. No. 1,021,369; Mar. 26; Sp. p. 5001; Gaz. vol. 176; p. 913.
Manly, Frederick G., Chicago, Ill. Spray-nozzle. No. 1,033,603; July 23; Gaz. vol. 180; p. 1064.
Mann, Abraham R., Jr., Weisel, Pa. Cigar-lighter. No. 1,025,001; Apr. 30; Sp. p. 7003; Gaz. vol. 177; p. 1230.
Mann, Albert H., Sundance, Wyo. Stilt. No. 1,037,503; Sept. 3; Gaz. vol. 182; p. 111.
Mann, Charles A., Cincinnati, Ohio. Machine for honing and stropping razors and razor-blades. No. 1,039,561; Sept. 24; Gaz. vol. 182; p. 897.
Mann & Co., Ed. (See Heess, Jacob, assignor.)
Mann, Harry, Brooklyn, N. Y., assignor of one-fourth to C. Thoma, Jr., and one-fourth to W. Thoma, Carlstadt, N. J. Centering device. No, 1,040,715; Oct. 8; Gaz. vol. 183; p. 388.
Mann, Henry N., Chicago, Ill. Machine for applying cover-retaining devices to receptacles. No. 1,015,047; Jan. 16; Sp. p. 4364; Gaz. vol. 174; p. 732.
Mann, Ira A., Pittsburgh, Pa. Water-closet. No. 1,017,437; Feb. 13; Sp. p. 2668; Gaz. vol. 175; p. 451.
Mann, James T. (See Davis, James B., assignor.)
Mann, Louis T., Chicago, Ill. Means for transmitting power from axles to bodies of railway-cars. No. 1,019,903; Mar. 12; Sp. p. 1921; Gaz. vol. 176; p. 334.
Mann, Miles H., Webster Groves, assignor to Buffum Tool Company, Louisiana, Mo. Wire-cutter. No. 1,018,839; Feb. 27; Sp. p. 5791; Gaz. vol. 175; p. 1000.
Mann, Thomas, Portland, Oreg. Window-sash lock. No. 1,035,985; Aug. 20; Gaz. vol. 181; p. 602.
Manners, James R., Manila, Philippine Islands. Finger-exerciser. No. 1,027,871; May 28; Sp. p. 6133; Gaz. vol. 178; p. 1053.
Mannheimer, Harry M., and F. P. Green, St. Louis, Mo.; said Green assignor to said Mannheimer. Display-fixture for children's cribs. No. 1,033,111; July 23; Gaz. vol. 180; p. 899.
Manning, Bowman & Company. (See Savage, George E., assignor.)
Manning Bowman & Company. (See Savage and Wilkinson, assignors.)

Alphabetical list of patentees—Continued.

Manning, Coleman J., Medford, assignor to American Steam Gauge and Valve Manufacturing Company, Boston, Mass. Pressure-gage. No. 1,043,618; Nov. 5; Gaz. vol. 184; p. 204.
Manning, Coleman J., Medford, assignor to American Steam Gauge & Valve Manufacturing Company, Boston, Mass. Recording low-pressure gage. No. 1,044,678; Nov. 19; Gaz. vol. 184; p. 630.
Manning, Elmer J., Janesville, Wis. Atomizer. No. 1,020,833; Mar. 19; Sp. p. 3893; Gaz. vol. 176; p. 680.
Manning, Joseph A., Pawtucket, R. I. Doll-head. No. 1,047,259; Dec. 17; Gaz. vol. 185; p. 576.
Manning, Louis H., Parmele, N. C. Window-blind. No. 1,029,814; June 18; Sp. p. 3799; Gaz. vol. 179; p. 667.
Manning, Wilbur J. A., Detroit, Mich. Holder for fire-extinguishers. No. 1,015,048; Jan. 16; Sp. p. 4367; Gaz. vol. 174; p. 733.
Mannon, Oliver R., and H. C. Rasmussen, Maxwell, Nebr. Nut and bolt lock. No. 1,033,027; July 16; Gaz. vol. 180; p. 832.
Manns, Daniel E. (See Lee, Charles M., assignor.)
Manny, Fred L., Benton Harbor, Mich., assignor to Metal Sectional Furniture Company, Portland, Me. Binder-frame. No. 1,038,616; Sept. 17; Gaz. vol. 182; p. 554.
Manny, Fred L., Benton Harbor, Mich., assignor of one-half to C. W. Haas, Chicago, Ill. Computing-machine. No. 1,038,774; Sept. 17; Gaz. vol. 182; p. 610.
Manowitz, Jacob, New York, N. Y. Garment-former. No. 1,045,305; Nov. 26; Gaz. vol. 184; p. 875.
Manrodt, Henry, Brooklyn, N. Y. Rotary motor. No. 1,040,716; Oct. 8; Gaz. vol. 183; p. 388.
Manross, David A., assignor of one-half to H. Smith, Franklin, Pa. Pole-derrick. No. 1,015,236; Jan. 16; Sp. p. 4720; Gaz. vol. 174; p. 795.
Mansfeld, Hans, assignor to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Gallocyanin compounds and making them. No. 1,028,045; May 28; Sp. p. 6488; Gaz. vol. 178; p. 1110.
Mansfield, Isaac N., Soddy, Tenn. Cotton-chopper. No. 1,042,361; Oct. 22; Gaz. vol. 183; p. 1006.
Mansfield, Kate L., *et al.* (See Mansfield, Lott, assignor.)
Mansfield, Lott, assignor, by mesne assignments, of one-half to K. L. Mansfield, Hingham, and one-half to W. N. Trowbridge, Brookline, Mass. Cream-dipper. No. 1,013,503; Jan. 2; Sp. p. 903; Gaz. vol. 174; p. 144.
Mansfield, Richard W., New London, Conn. Educational game apparatus. No. 1,030,414; June 25; Sp. p. 5126; Gaz. vol. 179; p. 914.
Mansfield, Richard W., New London, Conn. Game apparatus. No. 1,034,633; Aug. 6; Gaz. vol. 181; p. 76.
Manship, William, Leicester, England, assignor to United Shoe Machinery Company, Paterson, N. J. Machine for use in the manufacture of boots and shoes. No. 1,048,187; Dec. 24; Gaz. vol. 185; p. 926.
Manson, John A., New York, N. Y. Bracket for card-holders. No. 1,035,618; Aug. 13; Gaz. vol. 181; p. 442.
Manson, Joseph P., Hartland, Me. Potato-vine arranger. No. 1,030,475; June 25; Sp. p. 5278; Gaz. vol. 179; p. 936.
Manson, Marsden, San Francisco, Cal. Teaching geography. No. 1,042,455; Oct. 29; Gaz. vol. 183; p. 1068.
Manson, Marsden, San Francisco, Cal. Globe. No. 1,042,456; Oct. 29; Gaz. vol. 183; p. 1068.
Manson, Ray H., assignor to The Dean Electric Company, Elyria, Ohio. Signaling device. No. 1,016,699; Feb. 6; Sp. p. 1056; Gaz. vol. 175; p. 162.
Manson, Ray H., assignor to The Dean Electric Company, Elyria, Ohio. Alarm-signal device. No. 1,020,768; Mar. 19; Sp. p. 3761; Gaz. vol. 176; p. 659.
Manson, Ray H., assignor to The Dean Electric Company, Elyria, Ohio. Pole-changer. No. 1,023,261; Apr. 16; Sp. p. 3250; Gaz. vol. 177; p. 581.
Manson, Ray H., assignor to Dean Electric Company, Elyria, Ohio. Protective device for electrical apparatus. No. 1,025,532; May 7; Sp. p. 954; Gaz. vol. 178; p. 148.
Manson, Ray H., assignor to The Dean Electric Company, Elyria, Ohio. Relay and circuits therefor. No. 1,030,415; June 25; Sp. p. 5128; Gaz. vol. 179; p. 914.
Manson, Ray H., assignor to The Dean Electric Company, Elyria, Ohio. Hand-generator for harmonic signaling systems. No. 1,032,688; July 16; Gaz. vol. 180; p. 720.
Manson, Ray H., assignor to The Dean Electric Company, Elyria, Ohio. Telephone wall set. No. 1,033,817; July 30; Gaz. vol. 180; p. 1160.
Manson, Ray H., assignor to The Dean Electric Company, Elyria, Ohio. Mounting-bracket. No. 1,035,369; Aug. 13; Gaz. vol. 181; p. 358.
Manson, Ray H., assignor to The Dean Electric Company, Elyria, Ohio. Apparatus for training and locking signaling devices and the like. No. 1,036,663; Aug. 27; Gaz. vol. 181; p. 872.
Manson, Ray H., assignor to The Dean Electric Company, Elyria, Ohio. Telephone-exchange system. No. 1,038,617; Sept. 17; Gaz. vol. 182; p. 554.
Manson, Ray H., assignor to The Dean Electric Company, Elyria, Ohio. Electric-circuit controller. No. 1,047,260; Dec. 17; Gaz. vol. 185; p. 577.
Manson, Ray H., assignor to The Dean Electric Company, Elyria, Ohio. Conveyance and signaling appliance therefor. No. 1,048,557; Dec. 31; Gaz. vol. 185; p. 1089.
Manson, Vance S. (See Sauvage, William H., assignor.)
Manteuffel, William, St. Paul, Minn. Refrigerator. No. 1,035,370; Aug. 13; Gaz. vol. 181; p. 359.
Mantle Machinery and Patents Company. (See Cohn, Samuel, assignor.)
Mantle Machinery and Patents Company. (See Jonson, Herman, assignor.)
Manthe, Otto K. A., Niederplanitz, near Zwickau, Germany. Making skittle-grounds. No. 1,027,872; May 28; Sp. p. 6135; Gaz. vol. 178; p. 1053.
Manton-Gaulin Manufacturing Company. (See Davies, John W., assignor.)
Mantonya, Sylvester A., Yates Center, Kans. Crude-oil burner. No. 1,030,104; June 18; Sp. p. 4438; Gaz. vol. 179; p. 766.
Manufacturers Can Company, The. (See Milligan and Jacobsen, assignors.)
Manufacturing Equipment & Engineering Company. (See Leland, Sanford D., assignor.)
Manville Brothers Company, The. (See Lepper and Manville, assignors.)
Manville, Robert C. (See Dorman and Manville.)
Manville, William W. (See Lepper and Manville.)
Manzel, Adolph W., assignor to Manzel Brothers Company, Buffalo, N. Y. Force-feed lubricator. No. 1,014,403; Jan. 9; Sp. p. 2928; Gaz. vol. 174; p. 485.
Manzel, Adolph W., assignor to Manzel Brothers Company, Buffalo, N. Y. Force-feed lubricator. No. 1,032,487; July 16; Gaz. vol. 180; p. 650.
Manzel Brothers Company. (See Manzel, Adolph W., assignor.)
Manzel, Charles W., assignor, by mesne assignments, to J. L. Osgood, Buffalo, N. Y. Lubricator. No. 1,019,167; Mar. 5; Sp. p. 356; Gaz. vol. 176; p. 56.
Mapel, Clarence O., Chicago, Ill., assignor to Burroughs Adding Machine Company, Detroit, Mich. Adding-machine. No. 1,013,192; Jan. 2; Sp. p. 204; Gaz. vol. 174; p. 36.
Maphet, Albert, Los Angeles, Cal. Drum-support. No. 1,022,149; Apr. 2; Sp. p. 843; Gaz. vol. 177; p. 134.
Maple, Warren H. (See Turner and Maple.)
Mapson, Robert L., La Mesa, and A. C. Wolfe, Nestor, Cal. Grain-elevator. No. 1,043,619; Nov. 5; Gaz. vol. 184; p. 204.
Marazzi, Adolf, Kottern, near Kempten, Germany, assignor to Genossenschaft für Textilpatente, Basel, Switzerland. Formation of the thread-reserve for looms with mechanical bobbin change. No. 1,019,329; Mar. 5; Sp. p. 729; Gaz. vol. 176; p. 113.
Marazzi, Adolf, Kottern, near Kempten, Germany, assignor to Genossenschaft für Textilpatente, Basel, Switzerland. Bobbin for weaving-looms. No. 1,029,020; June 11; Sp. p. 2074; Gaz. vol. 179; p. 357.
Marble, Edwin H., assignor to Curtis & Marble Machine Company, Worcester, Mass. Cloth-finishing machine. No. 1,049,248; Dec. 31; Gaz. vol. 185; p. 1328.
Marble, George W., Milwaukee, Wis. Power-transmission device. No. 1,015,049; Jan. 16; Sp. p. 4368; Gaz. vol. 174; p. 733.
Marble, George W., Chicago, Ill., assignor to Stephenson Motor Truck Company, Milwaukee, Wis. Power-transmission device. No. 1,038,918; Sept. 17; Gaz. vol. 182; p. 660.
Marble, Harry M. (See Whalen, Thomas J., assignor.)
Marble, James E., Pittsburgh, Pa. Adjustable spacing-collar. No. 1,035,799; Aug. 13; Gaz. vol. 181; p. 502.
Marble, Webster L., Gladstone, Mich. Gaff-tongs. No. 1,018,065; Feb. 20; Sp. p. 4090; Gaz. vol. 175; p. 704.
Marble, Webster L., Gladstone, Mich. Folding compound tool. No. 1,036,664; Aug. 27; Gaz. vol. 181; p. 873.
Marble, Webster L., Gladstone, Mich. Front sight for firearms. No. 1,047,427; Dec. 17; Gaz. vol. 185; p. 636.
Marburg, Franz, Jr., Wiesbaden, Germany. Axial impeller-pump and the like. No. 1,046,092; Dec. 3; Gaz. vol. 185; p. 100.
Marburg, Franz, Jr., New York, N. Y. Screw-propeller pump. No. 1,047,261; Dec. 17; Gaz. vol. 185; p. 577.
Marburg, Louis C., Milwaukee, Wis., assignor to Allis-Chalmers Company. System of electrical distribution. No. 1,048,985; Dec. 31; Gaz. vol. 185; p. 1238.
Marcante, Peter F., Allentown, Pa. Shuttle-check. No. 1,023,579; Apr. 16; Sp. p. 3882; Gaz. vol. 177; p. 684.
March, Charles M., Portland, Me. Sliding and swinging window. No. 1,015,050; Jan. 16; Sp. p. 4371; Gaz. vol. 174; p. 733.
Marchal, Alfred, Croubans, France. Weft-end support in Northrop looms. No. 1,013,884; Jan. 9; Sp. p. 1774; Gaz. vol. 174; p. 304.
Marchand, Alexis, Bridgeport, Wash. Party-line telephone system. No. 1,013,412; Jan. 2; Sp. p. 705; Gaz. vol. 174; p. 112.
Marchand, Alexis, assignor to J. Bouska, Bridgeport, Wash. Chair-brace. No. 1,025,580; May 7; Sp. p. 1071; Gaz. vol. 178; p. 165.
Marchant, Arthur G. (See Marchant, Thomas B., A. G., and G. P.)
Marchant, Elison A. (See Sparr and Marchant.)

Alphabetical list of patentees—Continued.

Marchant, George P. (See Marchant, Thomas B., A. G., and G. P.)
Marchant, Thomas B., A. G., and G. P., London, England. Elastic tire. No. 1,024,090; Apr. 23; Sp. p. 4975; Gaz. vol. 177; p. 880.
Marche, Henri, Fourmies, France. Transferring hairs from skins to suitable supports. No. 1,047,822; Dec. 17; Gaz. vol. 185; p. 776.
Marcher, Frank A., Los Angeles, Cal. Mounting for eye-glasses. No. 1,032,488; July 16; Gaz. vol. 180; p. 651.
Marcks, Miecislaw, Lübeck, Germany. Dental impression-cup. No. 1,023,213; Apr. 16; Sp. p. 3156; Gaz. vol. 177; p. 565.
Marcou, André H., Versailles, France. Air-compressor. No. 1,026,521; May 14; Sp. p. 3153; Gaz. vol. 178; p. 520.
Marcucci, Angelo. (See Belluomini and Marcucci.)
Marcucci, Marius, assignor to Modern Pen Company, New York, N. Y. Pocket-clip. No. 1,016,166; Jan. 30; Sp. p. 6727; Gaz. vol. 174; p. 1169.
Marcus, Herman, assignor of one-half to J. Bloch, New York, N. Y. Non-refillable bottle. No. 1,025,757; May 7; Sp. p. 1434; Gaz. vol. 178; p. 225.
Marcus, Martin H., Yonkers, N. Y., assignor to Johnson & Johnson, New Brunswick, N. J. Apparatus for making sanitary napkins. No. 1,038,493; Sept. 10; Gaz. vol. 182; p. 476.
Marcus, Solomon, Philadelphia, Pa. Adjustable piano and piano-player seat. No. 1,042,245; Oct. 22; Gaz. vol. 183; p. 969.
Marcuse, Moses M., Far Rockaway, assignor to West Disinfecting Co., New York, N. Y. Sanitary mouthpiece for telephones. No. 1,017,680; Feb. 20; Sp. p. 3152; Gaz. vol. 175; p. 568.
Marcuse, Moses M., New York, N. Y., assignor to West Disinfecting Company. Mounting for flexible rolled material. No. 1,046,474; Dec. 10; Gaz. vol. 185; p. 274.
Marden, William, Boston, Mass. Valve control. No. 1,048,329; Dec. 24; Gaz. vol. 185; p. 973.
Mardis, Charles. (See Fowler, James T., assignor.)
Marean, Marrett F., Joplin, Mo. Folding umbrella. No. 1,026,357; May 14; Sp. p. 2813; Gaz. vol. 178; p. 466.
Marek, Ernest, Chicago, Ill. Aeroplane. No. 1,049,117; Dec. 31; Gaz. vol. 185; p. 1284.
Margerison, Charles, Toronto, Ontario, Canada. Combined curtain-pole and shade-support. No. 1,028,757; June 4; Sp. p. 1488; Gaz. vol. 179; p. 230.
Margeson, Christopher, Springfield, Mass. Agricultural implement. No. 1,019,330; Mar. 5; Sp. p. 729; Gaz. vol. 176; p. 113.
Margetts, Frederick W. and W. H., East Dulwich, England. Spring-wheel for vehicles. No. 1,022,430; Apr. 9; Sp. p. 1440; Gaz. vol. 177; p. 258.
Margetts, William H. (See Margetts, Frederick W. and W. H.)
Margolius, David, Spartanburg, S. C. Mop-holder. No. 1,027,209; May 21; Sp. p. 4711; Gaz. vol. 178; p. 791.
Marguet, Lucien, Rioupéroux, Isère, France. Construction and means of operation of pulp-straining drums for paper-making machines. No. 1,038,919; Sept. 17; Gaz. vol. 182; p. 660.
Marian, Josef, Pressburg, Austria-Hungary. Bottle-closure. No. 1,043,620; Nov. 5; Gaz. vol. 184; p. 205.
Marietti, Silvio, Alpignano, near Turin, Italy, assignor to Société Anonyme des Perfectionnements aux Lampes Electriques à Filaments Metalliques, Brussels, Belgium. Mounting and soldering electrical filaments. No. 1,029,383; June 11; Sp. p. 2857; Gaz. vol. 179; p. 481.
Marikle, Jervis A., Brooklyn, N. Y. Game apparatus. No. 1,018,840; Feb. 27; Sp. p. 5792; Gaz. vol. 175; p. 1000.
Marin, Eric G., Syracuse, N. Y. Automatic cut-off for gas. No. 1,037,275; Sept. 3; Gaz. vol. 182; p. 33.
Marinelli, Augusto, Loreto, Italy. Table-caster. No. 1,015,201; Jan. 16; Sp. p. 4651; Gaz. vol. 174; p. 785.
Marinette & Menominee Box Company. (See Cook, John A., assignor.)
Marinics, Frank, Expedit, Pa. Tire. No. 1,022,856; Apr. 9; Sp. p. 2361; Gaz. vol. 177; p. 403.
Marinics, Frank, Expedit, Pa. Rail-joint. No. 1,027,873; May 28; Sp. p. 6136; Gaz. vol. 178; p. 1053.
Marino, Pascal, London, England. Electrolytic separator and making the same. No. 1,020,149; Mar. 12; Sp. p. 2424; Gaz. vol. 176; p. 414.
Marino, Pascal, London, England. Secondary battery. No. 1,023,861; Apr. 23; Sp. p. 4470; Gaz. vol. 177; p. 801.
Marino, Pascal, London, England. Treating wood for use in secondary batteries. No. 1,023,948; Apr. 23; Sp. p. 4681; Gaz. vol. 177; p. 831.
Marino, Pascal, Regents Park, London, England. Electrolytic deposition of metals. No. 1,028,895; June 11; Sp. p. 1789; Gaz. vol. 179; p. 313.
Marino, Pascal, London, England. Superficial metallization of silicious articles. No. 1,041,126; Oct. 15; Gaz. vol. 183; p. 557.
Marino, Quintin, Golders Green, London, England. Treatment of surfaces of aluminium or its alloys for the deposition of metals thereon. No. 1,045,718; Nov. 26; Gaz. vol 184; p. 1023.
Marinsky, Davis, assignor to New York Buckle Company, New York, N. Y. Buckle. No. 1,044,896; Nov. 19; Gaz. vol. 184; p. 706.
Marion, Clarence, Petaluma, Cal. Hose-clamp. No. 1,047,962; Dec. 24; Gaz. vol. 185; p. 851.
Marion Machine Foundry & Supply Co. (See Blakeslee, Henry W. and D. R., assignors.)
Marion Steam Shovel Company, The. (See King and Fellmeth, assignors.)
Marion Steam Shovel Company, The. (See King and Weston, assignors.)
Marion Steam Shovel Company, The. (See Yawger, William H., assignor.)
Mark, Anson, and W. E. Sandford, Zanesville, Ohio. Apparatus for corrugating tubes. No. 1,045,092; Nov. 19; Gaz. vol. 184; p. 774.
Mark, Anson, and W. E. Sandford, Zanesville, Ohio. Apparatus for corrugating tubes. No. 1,045,093; Nov. 19; Gaz. vol. 184; p. 774.
Markee, Reuel T., Philadelphia, Pa. Heat-conserving apparatus. No. 1,016,346; Feb. 6; Sp. p. 251; Gaz. vol. 175; p. 39.
Markell, Alexander. (See Cumberland, Peregrine E. G., assignor.)
Marken, Joseph A., Hudson, S. D. Sleigh-runner. No. 1,033,183; July 23; Gaz. vol. 180; p. 925.
Markham Air Rifle Company. (See Roe, Ernest S., assignor.)
Markham, Charles F., Providence, R. I. Pin. No. 1,029,205; June 11; Sp. p. 2461; Gaz. vol. 179; p. 419.
Markham, Charles F., Providence, R. I. Pin. No. 1,038,618; Sept. 17; Gaz. vol. 182; p. 555.
Markiewicz, Michael, Newark, N. J. Clothes-line holder. No. 1,048,558; Dec. 31; Gaz. vol. 185; p. 1090.
Markle, John F. (See Cafferty and Markle.)
Markle, Wallace W. (See Larson, William, assignor.)
Markley, Richard, Norristown, Pa. Drinking-bowl for animals. No. 1,042,246; Oct. 22; Gaz. vol. 183; p. 969.
Markley, William D., Harrisburg, Pa. Door-lock. No. 1,030,313; June 25; Sp. p. 4916; Gaz. vol. 179; p. 877.
Markley, Willis R., Findlay, Ohio. Insulator. No. 1,021,059; Mar. 26; Sp. p. 4360; Gaz. vol. 176; p. 809.
Märklin & Co., Gebr. (See Choné, Fritz, assignor.)
Markman, Harvey C., Denver, Colo. Garment-hanger. No. 1,031,946; July 9; Gaz. vol. 180; p. 423.
Markmann, Alexander, and W. Stauter, assignors to C. Markmann, Dusseldorf, Germany. Spring device for starting automobiles. No. 1,031,134; July 2; Gaz. vol. 180; p. 101.
Markmann, Carl. (See Markmann and Stauter, assignors.)
Marko, Louis, *et al.* (See Walint, Markus, assignor.)
Markoe, John A., St. Paul, Minn. Stamp-affixer machine. No. 1,035,619; Aug. 13; Gaz. vol. 181; p. 442.
Marks, Firm of A. A. (See Marks, George E., assignor.)
Marks, Andrew J. (See Lawhorn and Marks.)
Marks, George E., assignor to Firm of A. A. Marks, New York, N. Y. Artificial leg. No. 1,032,074; July 9; Gaz. vol. 180; p. 465.
Marks, Henry A., Winterhaven, Fla. Oil-burner. No. 1,020,616; Mar. 19; Sp. p. 3426; Gaz. vol. 176; p. 606.
Marks, Jacob A., Nevada, Mo. Mattress-rack. No. 1,013,413; Jan. 2; Sp. p. 713; Gaz. vol. 174; p. 113.
Marks, John, Treberne, Manitoba, Canada. Memorandum-book. No. 1,041,500; Oct. 15; Gaz. vol. 183; p. 682.
Márkus, Gergely, Ellwood City, Pa. Wrench. No. 1,035,886; Aug. 20; Gaz. vol. 181; p. 570.
Markus, Janos, Freeburg, Ill. Smoke-consumer. No. 1,022,857; Apr. 9; Sp. p. 2361; Gaz. vol. 177; p. 404.
Markus, John, Glen Carbon, Ill. Yieldable support for furniture. No. 1,022,858; Apr. 9; Sp. p. 2363; Gaz. vol. 177; p. 404.
Marlatt, Robert, assignor of one-half to J. Connell, Carnegie, Pa. Puppet-valve. No. 1,024,642; Apr. 30; Sp. p. 6270; Gaz. vol. 177; p. 1104.
Marley, Samuel S., *et al.* (See Ostergren, Oscar P., assignor.)
Marlow, Daniel W., East Point, Ga. Stove. No. 1,015,330; Jan. 23; Sp. p. 4960; Gaz. vol. 174; p. 856.
Marlow, William, New York, N. Y., assignor to Standard Knitting Mills Company. Winding-machine. No. 1,025,988; May 14; Sp. p. 1954; Gaz. vol. 178; p. 337.
Marlton, William, *et al.* (See Craigie, William, assignor.)
Marmetschke, Ernst, Schöpfurth, near Eberswalde, assignor to Hubertusmühle mit beschränkter Haftung, Schöpfurth, Germany. Preserving wood. No. 1,016,024; Jan. 30; Sp. p. 6441; Gaz. vol. 174; p. 1121.
Marohn, Charles F., Milwaukee, Wis. Composition for removing varnish, paint, and the like. No. 1,035,620; Aug. 13; Gaz. vol. 181; p. 443.
Marois, Joseph P., assignor of one-fourth to S. Simon, Montreal, Quebec, Canada. Railway-track. No. 1,027,490; May 28; Sp. p. 5275; Gaz. vol. 178; p. 925.
Maroni, Joseph F., Montpelier, Vt. Polishing-machine. No. 1,038,404; Sept. 10; Gaz. vol. 182; p. 445.
Marot, René, Paris, France. Apparatus for preparing a mixture of air and sulfur dioxid. No. 1,024,798; Apr. 30; Sp. p. 6596; Gaz. vol. 177; p. 1160.
Marquardt, Otto, Schneidemühl, Germany. Sifting arrangement for flour-mills. No. 1,044,796; Nov. 19; Gaz. vol. 184; p. 672.

Alphabetical list of patentees—Continued.

Marquet, Oscar L. (See Pritchard and Potter, assignors.)
Marquis, William P., Central City, Nebr. Curtain-fixture. No. 1,017,574; Feb. 13; Sp. p. 2943; Gaz. vol. 175; p. 497.
Marr, Alexander W., Hamilton, Ohio. Ring-and-bolt safe-lock. No. 1,041,127; Oct. 15; Gaz. vol. 183; p. 557.
Marr, Robert A., Blacksburg, Va. Preserving cut timber and product thereof. No. 1,023,745; Apr. 16; Sp. p. 4179; Gaz. vol. 177; p. 734.
Marr, Robert A., Blacksburg, Va. Preserved wood and making same. No. 1,023,784; Apr. 16; Sp. p. 4250; Gaz. vol. 177; p. 747.
Marr, Robert A., Blacksburg, Va. Making paper and product thereof. No. 1,046,475; Dec. 10; Gaz. vol. 185; p. 274.
Marris, Clarence O., Akron, Ohio. Globe-holder. No. 1,037,276; Sept. 3; Gaz. vol. 182; p. 33.
Marsalis, James W., Hattiesburg, Miss. Thill-tug. No. 1,017,303; Feb. 13; Sp. p. 2383; Gaz. vol. 175; p. 405.
Marschall, Adolf J., Madison, Wis. Rennet-package and making same. No. 1,038,920; Sept. 17; Gaz. vol. 182; p. 661.
Marschik, Samuel, Brünn, Austria-Hungary. Wage-registering apparatus for power-looms and textile machinery. No. 1,034,920; Aug. 6; Gaz. vol. 181; p. 173.
Marsden, James, Wigan, England. Marking cloth by perforated lays or templets. No. 1,047,823; Dec. 17; Gaz. vol. 185; p. 776.
Marsden, Mark W., Philadelphia, Pa. System of developing natural power for industrial purposes. No. 1,036,502; Aug. 20; Gaz. vol. 181; p. 785.
Marsden, Mark W., Philadelphia, Pa. Apparatus for cleaning oil-wells. No. 1,041,501; Oct. 15; Gaz. vol. 183; p. 682.
Marseilles Company. (See Adams, Alonzo T., assignor.)
Marsh, Albert L., and J. Patrick, assignors to Hoskins Manufacturing Company, Detroit, Mich. Recording device. No. 1,048,188; Dec. 24; Gaz. vol. 185; p. 926.
Marsh, Albert M. (See Fleming and Marsh.)
Marsh, Arthur E., Denver, Colo. Coin-detector. No. 1,021,615; Mar. 26; Sp. p. 5552; Gaz. vol. 176; p. 997.
Marsh, Calvin D., deceased; F. F. Stryker, administrator, assignor to Hermance Machine Co., Williamsport, Pa. Cutter-head. No. 1,021,202; Mar. 26; Sp. p. 4657; Gaz. vol. 176; p. 854.
Marsh-Capron Manufacturing Company. (See Mosby, Alfred D., assignor.)
Marsh, Charles S. (See Chappel, James M., assignor.)
Marsh, Charles S. (See Kline, Wallace C., assignor.)
Marsh, Elon A., Detroit, Mich. Centrifugal pump. No. 1,026,101; May 14; Sp. p. 2239; Gaz. vol. 178; p. 378.
Marsh, George A., Dixfield, Me. Can-tipping machine. No. 1,034,473; Aug. 6; Gaz. vol. 181; p. 23.
Marsh, Homer S. (See Pointer, Zachariah T., assignor.)
Marsh, James B., Des Moines, Iowa. Reinforced arch-bridge. No. 1,035,026; Aug. 6; Gaz. vol. 181; p. 208.
Marsh, Joseph J. (See Chaplin and Marsh.)
Marsh, Joseph R. C., Cincinnati, Ohio, assignor to Marsh Steel Company. Composition of matter. No. 1,027,620; May 28; Sp. p. 5534; Gaz. vol. 178; p. 968.
Marsh, Joseph R. C., assignor to Marsh Steel Company, Cincinnati, Ohio. Composition of matter. No. 1,028,046; May 29; Sp. p. 6490; Gaz. vol. 178; p. 1110.
Marsh, Joseph R. C., assignor to Marsh Steel Company, Cincinnati, Ohio. Composition of matter. No. 1,028,047; May 28; Sp. p. 6490; Gaz. vol. 178; p. 1110.
Marsh, Owen F. (See Segel and Marsh.)
Marsh Steel Company. (See Marsh, Joseph R. C., assignor.)
Marsh, Wilbur W. (See Hackett and Morgan, assignors.)
Marsh, William P., Dayton, Ohio, and H. E. Dill, assignors to National Coning Machinery Company, Indianapolis, Ind. Cutting and printing machine. No. 1,029,021; June 11; Sp. p. 2075; Gaz. vol. 179; p. 357.
Marshak, Jacob, assignor of one-half to S. Goodman, New Haven, Conn. Alarm device. No. 1,036,869; Aug. 27; Gaz. vol. 181; p. 940.
Marshall, Albert J. (See Godinez and Marshall.)
Marshall, Albert T. (See Owens and Marshall.)
Marshall, Albert T., assignor to The Automatic Refrigerating Company, Hartford, Conn. Temperature control of refrigerating-compartments. No. 1,014,833; Jan. 16; Sp. p. 3893; Gaz. vol. 174; p. 660.
Marshall, Alexander. (See Ferguson and Marshall.)
Marshall, Benjamin B., Colorado Springs, Colo. Pump for liquids. No. 1,031,133; July 2; Gaz. vol. 180; p. 101.
Marshall, Charles S., Brockton, assignor to Boston Machine Works Company, Lynn, Mass. Folding-machine. No. 1,013,414; Jan. 2; Sp. p. 714; Gaz. vol. 174; p. 113.
Marshall, Dale, Cheltenham, England. Display device. No. 1,028,842; June 4; Sp. p. 1663; Gaz. vol. 179; p. 259.
Marshall, Dale, Cheltenham, England. Picture-hanging device. No. 1,043,448; Nov. 5; Gaz. vol. 184; p. 144.
Marshall, Dean, *et al.* (See Hutchinson, Harry, assignor.)
Marshall, Edward. (See Cutting and Marshall.)
Marshall, Edward C. and E., Lynn, assignors to Novelty Selling Company, Boston, Mass. Edge and bottom protector for shoes. No. 1,041,830; Oct. 22; Gaz. vol. 183; p. 831.
Marshall, Edward L. (See Smith and Marshall.)
Marshall, Ernest. (See Marshall, Edward C. and E.)
Marshall, Floyd D., *et al.* (See Mercer, Josias J., assignor.)
Marshall, Frank L., Boston, Mass. Combined dental speculum and saliva-ejector. No. 1,042,133; Oct. 22; Gaz. vol. 183; p. 932.
Marshall, George, Fremont, Nebr. Machine for making shocks. No. 1,025,705; May 7; Sp. p. 1320; Gaz. vol. 178; p. 205.
Marshall, George, East Ely, Nev. Safety switch-lock. No. 1,026,875; May 21; Sp. p. 3925; Gaz. vol. 178; p. 677.
Marshall, George H., New York, N. Y. Soda-calciner. No. 1,014,314; Jan. 9; Sp. p. 2708; Gaz. vol. 174; p. 453.
Marshall, George H., New York, N. Y. Evaporating apparatus for recovering soda-ash. No. 1,035,097; Aug. 6; Gaz. vol. 181; p. 233.
Marshall, Harry E., San Antonio, Tex. Vending-machine. No. 1,025,286; May 7; Sp. p. 384; Gaz. vol. 178; p. 63.
Marshall, Herbert E., and R. Isaksen, Brooklyn, N. Y. Power-transmission mechanism. No. 1,023,262; Apr. 16; Sp. p. 3254; Gaz. vol. 177; p. 582.
Marshall, Hugh K., Sydney, New South Wales, Australia. Marine sounding apparatus. No. 1,016,923; Feb. 6; Sp. p. 1525; Gaz. vol. 175; p. 236.
Marshall, James A. G., London, England. Attachment for pistols. No. 1,027,556; May 28; Sp. p. 5408; Gaz. vol. 178; p. 948.
Marshall, James E. (See Gary and Marshall.)
Marshall, James E., New York, N. Y. Flying-machine. No. 1,038,168; Sept. 10; Gaz. vol. 182; p. 365.
Marshall, James G. (See Morehead, Cox, and Marshall.)
Marshall, John, Kilnhurst, England. Aerial machine. No. 1,043,949; Nov. 12; Gaz. vol. 184; p. 349.
Marshall, John B., San Francisco, Cal. Sprayer for fire-hose and the like. No. 1,037,785; Sept. 3; Gaz. vol. 182; p. 203.
Marshall, John C. (See Cowie and Marshall.)
Marshall, John I. (See Faulds, John, assignor.)
Marshall, Norman. (See Raiche, Andrew, assignor.)
Marshall, Norman, Newton, Mass., assignor, by mesne assignments, to Arrow Electric Company, Hartford, Conn. Outlet-box. No. 1,031,564; July 2; Gaz. vol. 180; p. 248.
Marshall, Robert, and A. Norbury, Bloomington, Ill. Railway-crossing. No. 1,020,834; Mar. 19; Sp. p. 3895; Gaz. vol. 176; p. 681.
Marshall, Simon K., and M. H. McKinney, Xenia, Ohio. Stop-motion for spinning-machines. No. 1,018,919; Feb. 27; Sp. p. 5955; Gaz. vol. 175; p. 1026.
Marshall, Thomas J., New York, N. Y. Soap-bubble blower. No. 1,020,708; Mar. 19; Sp. p. 3632; Gaz. vol. 176; p. 638.
Marshall, Walker E., assignor to I. J. Scott, Danville, Ill. Trolley-wheel. No. 1,033,333; July 23; Gaz. vol. 180; p. 975.
Marshall, William. (See Blackman and Marshall.)
Marshall, William, and N. Simison, Des Moines, Iowa. Anchor. No. 1,026,402; May 14; Sp. p. 2901; Gaz. vol. 178; p. 481.
Marshel, John B., Dallas, Tex. Cotton-harvester. No. 1,042,703; Oct. 29; Gaz. vol. 183; p. 1156.
Marshel, John B., Dallas, Tex. Cotton-stalk puller. No. 1,042,704; Oct. 29; Gaz. vol. 183; p. 1156.
Marsters, James H., Looking Glass, and A. Abraham, Roseburg, Oreg. Drinking-cup device. No. 1,035,718; Aug. 13; Gaz. vol. 181; p. 475.
Marston, Annie V. (See Smith and Marston.)
Marston, George W., Dexter, Iowa. Transmission-gearing. No. 1,026,448; May 14; Sp. p. 3007; Gaz. vol. 178; p. 496.
Martel, Gustave J., Chicago, Ill. Tire-patching device. No. 1,048,189; Dec. 24; Gaz. vol. 185; p. 927.
Martell, Herbert C., assignor to Durant-Dort Carriage Company, Flint, Mich. Vehicle-body. No. 1,033,334; July 23; Gaz. vol. 180; p. 975.
Martell, Lydia, and E. J. Payne, Seattle, Wash. Bust-supporter. No. 1,020,213; Mar. 12; Sp. p. 2580; Gaz. vol. 176; p. 438.
Marten, William F., Oakland, Cal. Selective telephone system. No. 1,029,504; June 11; Sp. p. 3111; Gaz. vol. 179; p. 522.
Martens, Carl, Riemke, near Bochum, Germany. Reciprocating engine. No. 1,032,689; July 16; Gaz. vol. 180; p. 720.
Martens, Rudolph H., Fairfield, Wash. Sawing-machine. No. 1,014,500; Jan. 9; Sp. p. 3098; Gaz. vol. 174; p. 515.
Martenson, John. (See Johanson, Emil G., assignor.)
Martersteck, William T., Sharon, Pa. Means for transmitting power from the axles of railway-cars. No. 1,024,518; Apr. 30; Sp. p. 5960; Gaz. vol. 177; p. 1062.
Marth, Charles J., St. Louis, Mo. Gearing. No. 1,042,580; Oct. 29; Gaz. vol. 183; p. 1113.
Marth, Charles J., assignor to Wayne Manufacturing Company, St. Louis, Mo. Washing-machine. No. 1,023,746; Apr. 16; Sp. p. 4181; Gaz. vol. 177; p. 734.

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Marth, Charles J., assignor to Wayne Manufacturing Company, St. Louis, Mo. Wringer. No. 1,047,544; Dec. 17; Gaz. vol. 185; p. 677.
Martin Adjustable Piano Bench Company, The. (See Martin, Christian H., assignor.)
Martin, Albert, Newark, N. J. Expansion-spike. No. 1,024,904; Apr. 30; Sp. p. 6805; Gaz. vol. 177; p. 1196.
Martin, Albert, Newark, N. J. Wrench. No. 1,030,907; July 2; Gaz. vol. 180; p. 19.
Martin, Albert, and O. D. Charles, Monohan, Wash. Milk-pail. No. 1,044,552; Nov. 19; Gaz. vol. 184; p. 585.
Martin, Andrew, Moosic, Pa. Hanger-support. No. 1,037,277; Sept. 3; Gaz. vol. 182; p. 33.
Martin, Arthur T., Sac City, Iowa. Seed-grader. No. 1,026,327; May 14; Sp. p. 2728; Gaz. vol. 178; p. 456.
Martin, Aubry H., Short Hills, assignor to Recording Speedometer Company, Newark, N. J. Tape-feeding mechanism for recording instruments. No. 1,017,984; Feb. 20; Sp. p. 3905; Gaz. vol. 175; p. 675.
Martin, Aubry H., Short Hills, assignor to Recording Speedometer Company, Newark, N. J. Speed-recorder. No. 1,018,330; Feb. 20; Sp. p. 4624; Gaz. vol. 175; p. 794.
Martin, Charles, Hollenberg, Kans. Cattle-guard. No. 1,048,330; Dec. 24; Gaz. vol. 185; p. 974.
Martin, Charles B., Portland, Oreg. Car-fender. No. 1,035,621; Aug. 13; Gaz. vol. 181; p. 443.
Martin, Charles E., Mansfield, Ohio. Roof for silos or the like. No. 1,032,012; July 9; Gaz. vol. 180; p. 444.
Martin, Charles E., Hammond, Ind. Tufting-machine. No. 1,037,786; Sept. 3; Gaz. vol. 182; p. 203.
Martin, Charles E., and S. J. Clokey, Washington, Pa. Wheel. No. 1,021,467; Mar. 26; Sp. p. 5263; Gaz. vol. 176; p. 949.
Martin, Charles H., Worcester, Mass. Vehicle. No. 1,018,248; Feb. 20; Sp. p. 4468; Gaz. vol. 175; p. 767.
Martin, Charles H. C., Forestville, N. Y. Cushion-heel. No. 1,035,371; Aug. 13; Gaz. vol. 181; p. 359.
Martin, Christian H., Akron, assignor, by mesne assignments, to The Martin Adjustable Piano Bench Company, Cleveland, Ohio. Adjustable piano-bench. No. 1,048,190; Dec. 24; Gaz. vol. 185; p. 927.
Martin, Daniel C., Maplewood, Mo. Feed-bag. No. 1,026,989; May 21; Sp. p. 4203; Gaz. vol. 178; p. 717.
Martin, David W., Mount Airy, Md. Cultivator-tooth and connection. No. 1,034,474; Aug. 6; Gaz. vol. 181; p. 24.
Martin, Douglas J., New York, N. Y. Antiskid device. No. 1,023,580; Apr. 16; Sp. p. 3883; Gaz. vol. 177; p. 684.
Martin, Edgar D., assignor of one-half to F. P. Smith, Chicago, Ill. Building construction. (Reissue.) No. 13,488; Nov. 19; Gaz. vol. 184; p. 782.
Martin, Edward H., Webster City, Iowa. Telephone-meter. No. 1,018,435; Feb. 27; Sp. p. 4872; Gaz. vol. 175; p. 863.
Martin, Eugene, Soldiers Grove, Wis. Pump. No. 1,013,415; Jan. 2; Sp. p. 721; Gaz. vol. 174; p. 113.
Martin, Frank, assignor of one-half to M. Di Bella, Renova, Pa. Locomotive. No. 1,039,304; Sept. 24; Gaz. vol. 182; p. 808.
Martin, Frank H., San Francisco, Cal. Scale-scoop. No. 1,029,138; June 11; Sp. p. 2321; Gaz. vol. 179; p. 396.
Martin, Frank P., Williamsburg, Kans. Mold. No. 1,048,087; Dec. 24; Gaz. vol. 185; p. 893.
Martin, Frederick E., Bonami, La. Conveyer-chain cleat. No. 1,013,794; Jan. 2; Sp. p. 1538; Gaz. vol. 174; p. 245.
Martin, Frederick E., Bonami, La. Fluid-pressure control. No. 1,030,105; June 18; Sp. p. 4439; Gaz. vol. 179; p. 767.
Martin, Frederick E., Bonami, La. Retaining-valve. No. 1,043,122; Nov. 5; Gaz. vol. 184; p. 26.
Martin, George C., Los Angeles, Cal. Friction-clutch. No. 1,019,267; Mar. 5; Sp. p. 570; Gaz. vol. 176; p. 91.
Martin, George C., Los Angeles, Cal. Shock-absorber. No. 1,034,634; Aug. 6; Gaz. vol. 181; p. 76.
Martin, George C., Los Angeles, Cal. Shock-absorber. No. 1,039,305; Sept. 24; Gaz. vol. 182; p. 809.
Martin, George V., assignor to The National Malleable Castings Company, Cleveland, Ohio. Pilot-coupling for locomotives. No. 1,022,859; Apr. 9; Sp. p. 2364; Gaz. vol. 177; p. 404.
Martin, George W., Channing, Tex. Nut-lock. No. 1,041,831; Oct. 22; Gaz. vol. 183; p. 831.
Martin, George W., Channing, Tex. Nut-lock. No. 1,041,832; Oct. 22; Gaz. vol. 183; p. 832.
Martin, H. G. (See Crouch, William V. and M. S., assignors.)
Martin, Haakon A., assignor to The National Cash Register Company, Dayton, Ohio. Total-printing cash-register. No. 1,013,193; Jan. 2; Sp. p. 209; Gaz. vol. 174; p. 36.
Martin, Harry T., Panhandle, Tex. Rotary churn. No. 1,020,300; Mar. 12; Sp. p. 2745; Gaz. vol. 176; p. 465.
Martin, Homer N., New York, N. Y. Smoke-consuming apparatus. No. 1,045,577; Nov. 26; Gaz. vol. 184; p. 973.
Martin, Horace G., East Rutherford, N. J. Electric telegraphic apparatus. No. 1,042,457; Oct. 29; Gaz. vol. 183; p. 1069.
Martin, Horace G., East Rutherford, N. J. Electric telegraphic apparatus. No. 1,043,449; Nov. 5; Gaz. vol. 184; p. 144.
Martin, Hugh, *et al.* (See White, William R., assignor.)
Martin, Ira E., Chicago, Ill. Adjustable shelf. No. 1,043,950; Nov. 12; Gaz. vol. 184; p. 349.
Martin, Ira L., Portland, Oreg. Flying-machine. No. 1,021,877; Apr. 2; Sp. p. 273; Gaz. vol. 177; p. 44.
Martin, J. D. (See Miller, John W., assignor.)
Martin, James, Manchester, England. Picker-spindle for looms. No. 1,017,225; Feb. 13; Sp. p. 2228; Gaz. vol. 175; p. 379.
Martin, James A., *et al.* (See Kent, Victor E., assignor.)
Martin, James A., *et al.* (See White, William R., assignor.)
Martin, James H., Springfield, Mo. Current-motor. No. 1,025,002; Apr. 30; Sp. p. 7004; Gaz. vol. 177; p. 1230.
Martin, James H., Springfield, Mo. Flume construction. No. 1,044,463; Nov. 12; Gaz. vol. 184; p. 524.
Martin Jex & Company. (See Dell, Norman E., assignor.)
Martin, John O., and H. W. Scheiler, assignors of one-third to A. A. Ahrens, Lincoln, Ill. Coupling. No. 1,020,431; Mar. 19; Sp. p. 3017; Gaz. vol. 176; p. 547.
Martin, John O., and H. W. Scheiler, assignors of one-third to J. Malerich, Lincoln, Ill. Brake mechanism. No. 1,039,771; Oct. 1; Gaz. vol. 183; p. 35.
Martin, John R., St. Louis, Mo. Aeroplane. No. 1,037,278; Sept. 3; Gaz. vol. 182; p. 34.
Martin, John S., *et al.* (See Rosen, Simon L., assignor.)
Martin, Joseph, Waterbury, Vt. Hay rake and tumbler. No. 1,044,213; Nov. 12; Gaz. vol. 184; p. 439.
Martin, Joseph E., Kansas City, Mo., assignor to The Bryant Electric Company, Bridgeport, Conn. Globe-holder. No. 1,029,384; June 11; Sp. p. 2859; Gaz. vol. 179; p. 481.
Martin, Joseph E., Kansas City, Mo., assignor to The Bryant Electric Company, Bridgeport, Conn. Globe-holder. No. 1,029,385; June 11; Sp. p. 2860; Gaz. vol. 179; p. 481.
Martin, Lewis, Roseland, Mo. Gate. No. 1,029,306; June 11; Sp. p. 2675; Gaz. vol. 179; p. 453.
Martin, Noah R., and C. E. Roby, Columbus, Ohio. Spring-wheel. No. 1,024,091; Apr. 23; Sp. p. 4977; Gaz. vol. 177; p. 880.
Martin, Patrick A., Birmingham, and J. Stanley, Sparkhill, near Birmingham, England. Golf-ball. No. 1,022,248; Apr. 2; Sp. p. 1052; Gaz. vol. 177; p. 168.
Martin, Paul, Roubaix, France. Holder for printing-surfaces. No. 1,022,323; Apr. 2; Sp. p. 1188; Gaz. vol. 177; p. 191.
Martin, Paul, Roubaix, France. Cutting mechanism for printing-presses. No. 1,042,938; Oct. 29; Gaz. vol. 183; p. 1236.
Martin, Phillip B., and H. Dahlenburg, Avon, S. D. Draft-equalizer. No. 1,022,490; Apr. 9; Sp. p. 1552; Gaz. vol. 177; p. 278.
Martin, Richard W., Los Angeles, Cal. Sanitary pressure-filter. No. 1,015,051; Jan. 16; Sp. p. 4373; Gaz. vol. 174; p. 734.
Martin, Robert H., Newark, N. J., assignor to W. D. Walbridge, New York, N. Y. Rotary engine. No. 1,039,562; Sept. 24; Gaz. vol. 182; p. 898.
Martin, Robert L., Ocala, Fla. Canal-feeder. No. 1,029,505; June 11; Sp. p. 3115; Gaz. vol. 179; p. 522.
Martin, Robert T. J., Elyria, Ohio. Pressed-metal seat. No. 1,014,013; Jan. 9; Sp. p. 2060; Gaz. vol. 174; p. 348.
Martin, Rodney W., Dayton, Ohio. Adjustable multi-tracker for mechanical musical-instrument players. No. 1,019,813; Mar. 12; Sp. p. 1731; Gaz. vol. 176; p. 303.
Martin, Samuel M., Hetherdale, Prince Edward Island, Canada. Tedder attachment for mowing-machines. No. 1,047,099; Dec. 10; Gaz. vol. 185; p. 488.
Martin, Sidney, Chelsea, Mass. Suspenders. No. 1,042,939; Oct. 29; Gaz. vol. 183; p. 1236.
Martin, Simon L., Oklahoma, Okla. Boring-machine. No. 1,036,665; Aug. 27; Gaz. vol. 181; p. 873.
Martin, T., Missouri City, Tex. Whiffletree. No. 1,026,522; May 14; Sp. p. 3154; Gaz. vol. 178; p. 521.
Martin, Theodore R., *et al.* (See Gray, Edward A., assignor.)
Martin, Thomas B., Texico, N. Mex. Pump. No. 1,025,878; May 7; Sp. p. 1699; Gaz. vol. 178; p. 265.
Martin, Thomas G., Parkersburg, W. Va. Machine for making staves. No. 1,032,226; July 9; Gaz. vol. 180; p. 516.
Martin, Thomas H., Tacoma, Wash. Box-making machine. No. 1,044,066; Nov. 12; Gaz. vol. 184; p. 389.
Martin, W. A., *et al.* (See Miller, Charles K., assignor.)
Martin, Wallace B., assignor of one-half to W. C. Stanton, St. Paul, Minn. Emery-wheel guard. No. 1,041,128; Oct. 15; Gaz. vol. 183; p. 558.
Martin, William E., Stamford, England. Mowing-machine. No. 1,027,745; May 28; Sp. p. 5790; Gaz. vol. 178; p. 1009.
Martin, William E., Stamford, England. Carbureter. No. 1,038,921; Sept. 17; Gaz. vol. 182; p. 661.
Martin, William H., Geyserville, Cal. Car-fender. No. 1,044,464; Nov. 12; Gaz. vol. 184; p. 525.

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Martin, William J., assignor of one-half to F. J. Carr, Buffalo, N. Y. Intensifier. No. 1,037,031; Aug. 27; Gaz. vol. 181; p. 994.
Martin, William T., Sr., administrator. (See Fischer, Hermann W.).
Martin, William W., assignor to Emmons Bros. Company, Haverhill, Mass. Manufacture of hats. No. 1,037,032; Aug. 27; Gaz. vol. 181; p. 994.
Martindale, John H., assignor of one-half to E. G. Gilbert, Lakewood, Ohio. Gas-burner. No. 1,048,716; Dec. 31; Gaz. vol. 185; p. 1145.
Martineau, Clarence R., *et al.* (See Fairchild, William, assignor.)
Martineau, William C., *et al.* (See Fairchild, William, assignor.)
Martineau, William C., Albany, N. Y. Car-seal. No. 1,032,414; July 16; Gaz. vol. 180; p. 625.
Martineau, William C., Albany, N. Y. Game apparatus. No. 1,040,717; Oct. 8; Gaz. vol. 183; p. 389.
Martini, Carl, assignor to Martini & Hüneke Maschinenbau-Aktien-Gesellschaft, Berlin, Germany. Device for safely storing inflammable liquids. No. 1,025,758; May 7; Sp. p. 1436; Gaz. vol. 178; p. 225.
Martini, Henry, assignor of one-half to D. A. Woolley, Girard, Ill. Pick. No. 1,049,249; Dec. 31; Gaz. vol. 185; p. 1328.
Martini & Huneke Maschinenbau-Aktien-Gesellschaft. (See Kesseler, Paul, assignor.)
Martini & Hüneke Maschinenbau-Aktien-Gesellschaft. (See Martini, Carl, assignor.)
Martino, Natale, New York, N. Y. Life-preserver. No. 1,037,279; Sept. 3; Gaz. vol. 182; p. 34.
Martinson, Julius. (See Myrholm, Peder, assignor.)
Marty, Henry L., Orrville, Ohio. Pipe-wrench. No. 1,024,519; Apr. 30; Sp. p. 5961; Gaz. vol. 177; p. 1062.
Marvel, James, New Bedford, Mass. Loom-temple. No. 1,038,169; Sept. 10; Gaz. vol. 182; p. 365.
Marvin, Harry N., Canastota, assignor, by mesne assignments, to Biograph Company, New York, N. Y. Animated-picture apparatus. No. 1,021,060; Mar. 26; Sp. p. 4361; Gaz. vol. 176; p. 810.
Marx, Charles O., Brooklyn, assignor of one-half to S. Bruckheimer, New York, N. Y. Door-hanger. No. 1,041,833; Oct. 22; Gaz. vol. 183; p. 832.
Marx, Henry C., Boston, assignor to The Phonoharp Company, East Boston, Mass. Playing attachment for stringed musical instruments. No. 1,044,553; Nov. 19; Gaz. vol. 184; p. 585.
Marx, Henry J., Holyoke, Mass., assignor to The American Thread Company, New York, N. Y. Winding-machine. No. 1,029,703; June 18; Sp. p. 3561; Gaz. vol. 179; p. 629.
Marx, Henry J., Holyoke, Mass., assignor to The American Thread Company, New York, N. Y. Winding mechanism. No. 1,029,704; June 18; Sp. p. 3565; Gaz. vol. 179; p. 629.
Marx, Henry J., Holyoke, Mass., assignor to The American Thread Company, New York, N. Y. Winding-machine. No. 1,029,761; June 18; Sp. p. 3677; Gaz. vol. 179; p. 648.
Marx, Henry J., Holyoke, Mass., assignor to The American Thread Company, Jersey City, N. J. Tension control for thread-dressing machines and the like. No. 1,029,878; June 18; Sp. p. 3958; Gaz. vol. 179; p. 689.
Marx, Joseph J., St. Louis, Mo. Waistband for trousers. No. 1,046,476; Dec. 10; Gaz. vol. 185; p. 274.
Marx, Leon L., assignor of one-half to A. A. Swayze, Monroe, La. Protective covering for tooth-brushes. No. 1,041,315; Oct. 15; Gaz. vol. 183; p. 622.
Marx, Otto, *et al.* (See Koller, Wilhelm, assignor.)
Marx, Paul G., New York, N. Y., and L. Brucker, Boston, Mass. Hydraulic transmission for boats. No. 1,035,458; Aug. 13; Gaz. vol. 181; p. 388.
Marx, Phil. (See Riley, William K., assignor.)
Mary, Joseph L., and M. Lambert, Shelbyville, Ind., assignors to Moore Carving Machine Company, Minneapolis, Minn. Sander or smoothing-machine. No. 1,019,066; Mar. 5; Sp. p. 115; Gaz. vol. 176; p. 22.
Marysville Cabinet Company, The. (See Bainer and Spurling, assignors.)
Marzak, Frank, Flushing, N. Y. Smoking-pipe. No. 1,018,841; Feb. 27; Sp. p. 5794; Gaz. vol. 175; p. 1001.
Marzak, Frank, College Point, N. Y. Knife. No. 1,037,648; Sept. 3; Gaz. vol. 182; p. 158.
Maschinenfabrik Kappel Aktiengesellschaft. (See Knecht, Johann J., assignor.)
Maschinenfabrik Moenus A. G. (See Crain, Rudolf E., assignor.)
Maschinenfabrik Moenus A. G. (See Bohacek, Paul, assignor.)
Maschinenfabrik Moenus A. G. (See Heldmann, Peter, assignor.)
Maschinenfabrik Oerlikon. (See Honegger, Emil, assignor.)
Maschinenfabrik Schnarr & Schmitt. (See Schmitt, Rudolf, assignor.)
Mascord, George W. (See Chitty, Lange, and Mascord.)
Mascord, George W., Barnes, London, England. Application and distribution of electromotive power for use in starting machinery, &c. No. 1,033,257; July 23; Gaz. vol. 180; p. 950.
Masel, Theodore, assignor to American Baker's Machinery Company, St. Louis, Mo. Dough-divider. No. 1,021,157; Mar. 26; Sp. p. 4565; Gaz. vol. 176; p. 839.
Maser, George V., Philadelphia, Pa., and J. A. Gebhart, Wilmington, Del. Sanitary counter. No. 1,032,013; July 9; Gaz. vol. 180; p. 445.
Masgai, John, Worthington, Minn. Cue-tip. No. 1,013,671; Jan. 2; Sp. p. 1286; Gaz. vol. 174; p. 201.
Masini, Caesar. (See Judkins, Charles E., assignor.)
Maskey, Carle L., Cleveland, Ohio. Automobile locking mechanism. No. 1,022,431; Apr. 9; Sp. p. 1442; Gaz. vol. 177; p. 258.
Maskrey, Arthur J., assignor of one-half to J. E. Carnahan, Canton, Ohio. Rolling iron or steel sheets. No. 1,029,936; June 18; Sp. p. 4084; Gaz. vol. 179; p. 709.
Maskrey, George W., Willow River, Minn. Load-carrier. No. 1,040,227; Oct. 1; Gaz. vol. 183; p. 185.
Mason, Albert I., Hood River, Oreg. Box-press. No. 1,015,237; Jan. 16; Sp. p. 4721; Gaz. vol. 174; p. 796.
Mason, Belle A., Binghamton, N. Y. Toy. No. 1,031,135; July 2; Gaz. vol. 180; p. 102.
Mason, Calvin D., Ashland, Ohio. Safety-platform. No. 1,018,674; Feb. 27; Sp. p. 5442; Gaz. vol. 175; p. 944.
Mason, Carlisle. (See Schmid and Mason.)
Mason, Charles, Boston, assignor of one-half to P. J. Holmes, Carver, Mass. Adjustable shade-roller bracket. No. 1,016,641; Feb. 6; Sp. p. 945; Gaz. vol. 175; p. 142.
Massey, Charles F., Chicago, Ill. Molding battery-wells. No. 1,013,416; Jan. 2; Sp. p. 723; Gaz. vol. 174; p. 114.
Mason, Charles F., Neenah, Wis. Valve. No. 1,041,316; Oct. 15; Gaz. vol. 183; p. 622.
Mason, Charles T., Sumter, S. C. Interrupter for ignition-dynamos. No. 1,017,304; Feb. 13; Sp. p. 2384; Gaz. vol. 175; p. 406.
Mason, Charles T., Sumter, S. C. Ignition device for explosive-engines. No. 1,030,243; June 18; Sp. p. 4726; Gaz. vol. 179; p. 813.
Mason, Charles T., Sumter, S. C. Electric device for explosive-engines. No. 1,031,016; July 2; Gaz. vol. 180; p. 59.
Mason, Charles T., Sumter, S. C. Timing device for ignition systems. No. 1,047,963; Dec. 24; Gaz. vol. 185; p. 851.
Mason, Charles T., Sumter, S. C., assignor to The Sumter Telephone Manufacturing Co. Telephone-receiver. No. 1,031,947; July 9; Gaz. vol. 180; p. 423.
Mason, Edward H., *et al.* (See Kenner, William E., assignor.)
Mason, Edward J. (See Mason, William S. and E. J.)
Mason, Francis C., and J. W. Shanahan, assignors to Bissell Carpet Sweeper Co., Grand Rapids, Mich. Brush adjustment for carpet-sweepers. No. 1,038,170; Sept. 10; Gaz. vol. 182; p. 365.
Mason, Francis C., and J. W. Shanahan, assignors to Bissell Carpet Sweeper Co., Grand Rapids, Mich. Carpet-sweeper. No. 1,042,134; Oct. 22; Gaz. vol. 183; p. 932.
Mason, Fred H., and J. Allen, Scranton, Pa. Separating mechanism. No. 1,021,690; Mar. 26; Sp. p. 5673; Gaz. vol. 176; p. 1021.
Mason, George N., assignor to Reading Hardware Company, Reading, Pa. Reversible locking-bolt. No. 1,019,678; Mar. 5; Sp. p. 1469; Gaz. vol. 176; p. 227.
Mason, George N., assignor to Reading Hardware Company, Reading, Pa. Rim-latch. No. 1,021,417; Mar. 26; Sp. p. 5146; Gaz. vol. 176; p. 931.
Mason, George N., assignor to Reading Hardware Company, Reading, Pa. Lock. No. 1,024,733; Apr. 30; Sp. p. 6447; Gaz. vol. 177; p. 1137.
Mason, George N., assignor to Reading Hardware Company, Reading, Pa. Cylinder door-lock. No. 1,032,920; July 16; Gaz. vol. 180; p. 796.
Mason, George N., assignor to Reading Hardware Company, Reading, Pa. Latch and lock mechanism. No. 1,033,028; July 16; Gaz. vol. 180; p. 832.
Mason, George N., assignor to Reading Hardware Company, Reading, Pa. Lock. No. 1,036,130; Aug. 20; Gaz. vol. 181; p. 654.
Mason, George N., assignor to Reading Hardware Company, Reading, Pa. Store-door latch. No. 1,048,845; Dec. 31; Gaz. vol. 185; p. 1190.
Mason, George W., Marshall, and F. Hammond, Casey, Ill. Stuffing-box. No. 1,028,758; June 4; Sp. p. 1489; Gaz. vol. 179; p. 231.
Mason, James R., North Versailles township, Allegheny county, Pa. Rotary air-compressor. No. 1,021,320; Mar. 26; Sp. p. 4905; Gaz. vol. 176; p. 897.
Mason, Luther A., Ellensburg, Wash. Faucet-filter. No. 1,016,757; Feb. 6; Sp. p. 1174; Gaz. vol. 175; p. 181.
Mason, Orlando P., Bellaire, Ohio. Receptacle-supporting device. No. 1,048,986; Dec. 31; Gaz. vol. 185; p. 1238.
Mason, Sylvester, deceased, Willisville, Ill.; W. L. Mason, administrator. Refrigerator-car. No. 1,030,671; June 25; Sp. p. 5888; Gaz. vol. 179; p. 1006.
Mason, Terrill M., Murfreesboro, Tenn. Attachment for plows and the like. No. 1,046,621; Dec. 10; Gaz. vol. 185; p. 326.
Mason, Volney W., Providence, R. I. Safety device for elevators. No. 1,024,943; Apr. 30; Sp. p. 6893; Gaz. vol. 177; p. 1211.

Mason, Volney W., Providence, R. I. Universal sheave suspension. No. 1,027,491; May 28; Sp. p. 5276; Gaz. vol. 178; p. 925.
Mason, W. L., administrator. (See Mason, Sylvester.)
Mason, William S. and E. J., Leicester, England. Window-holder for sliding sashes. No. 1,027,874; May 28; Sp. p. 6137; Gaz. vol. 178; p. 1053.
Mason, William T. (See Mueller and Mason.)
Masor, Daniel, New York, N. Y. Adjustable clamp. No. 1,043,711; Nov. 5; Gaz. vol. 184; p. 234.
Massachusetts Belting Company. (See Hammond and Taft, assignors.)
Massachusetts Saw Works. (See McQuillan, Joseph W., assignor.)
Massart, Jules, Lantremange, Belgium. Harvesting-machine for beet-roots and the like. No. 1,031,356; July 2; Gaz. vol. 180; p. 178.
Massey, Benjamin F. (See Maynard and Massey.)
Massey-Harris Co. (See Johnston, Andrew, assignor.)
Massey, Robert F., assignor of one-half to P. S. Mabe, Trussville, Ala. Car-brake. No. 1,040,368; Oct. 8; Gaz. vol. 183; p. 264.
Massillon Steam & Hot Water Heating Company. (See Mauger and Hinderer, assignors.)
Massip, Georges, Paris, France. Centrifugal air-pump. No. 1,049,118; Dec. 31; Gaz. vol. 185; p. 1285.
Massohn, Richard, and K. T. Sandreczki, Hamburg, Germany. Rotary engine. No. 1,041,646; Oct. 15; Gaz. vol. 183; p. 729.
Massohn, Richard, and J. Strathus, Hamburg, Germany; said Massohn assignor to said Strathus. Arrangement for the projection of lantern-pictures. No. 1,024,734; Apr. 30; Sp. p. 6449; Gaz. vol. 177; p. 1137.
Masson, John, Byron, Cal. Meat and sausage cutter. No. 1,036,870; Aug. 27; Gaz. vol. 181; p. 940.
Mast, Adolf, Tempelhof, near Berlin, Germany. Point for concrete piles. No. 1,018,979; Feb. 27; Sp. p. 6095; Gaz. vol. 175; p. 1048.
Mast, Joseph F., Harper, Kans. Machine for snapping and husking ears of corn. No. 1,021,321; Mar. 26; Sp. p. 4907; Gaz. vol. 176; p. 897.
Mast, Peter, Toledo, Ohio. Fence-gate. No. 1,044,214; Nov. 12; Gaz. vol. 184; p. 439.
Master, James W., assignor of one-third to S. Bryan, San Diego, Cal. Undercurrent sea-motor. No. 1,015,627; Jan. 23; Sp. p. 5591; Gaz. vol. 174; p. 958.
Master, James W., assignor of one-third to N. S. Abrahamson, San Diego, Cal. Life-preserver. No. 1,025,989; May 14; Sp. p. 1956; Gaz. vol. 178; p. 338.
Master Roll Music Duplicating Company. (See Myers, Edgar W., assignor.)
Masters, Archie H., Burt, Iowa. Portable shower-bath. No. 1,047,670; Dec. 17; Gaz. vol. 185; p. 724.
Mastin, Charles I. E., Midland Park, N. J. Packing for piston-rods, &c. No. 1,018,202; Feb. 20; Sp. p. 4375; Gaz. vol. 175; p. 751.
Matalene, Henry W., New York, N. Y. Stem winding and setting watch. No. 1,020,769; Mar. 19; Sp. p. 3763; Gaz. vol. 176; p. 659.
Matalene, Henry W., New York, N. Y. Folding watch-case. No. 1,020,770; Mar. 19; Sp. p. 3766; Gaz. vol. 176; p. 659.
Matalene, Henry W., New York, N. Y. Clock for automobiles and the like. No. 1,023,383; Apr. 16; Sp. p. 3482; Gaz. vol. 177; p. 621.
Matalene, Henry W., New York, N. Y. Stem winding and setting watch. No. 1,023,384; Apr. 16; Sp. p. 3485; Gaz. vol. 177; p. 622.
Matalene, Henry W., New York, N. Y. Stem-winding watch. No. 1,044,554; Nov. 19; Gaz. vol. 184; p. 585.
Matarazzo, Stephen A., Wilmerding, Pa. Tire. No. 1,030,263; June 18; Sp. p. 4770; Gaz. vol. 179; p. 820.
Match Supply Company. (See Hutchinson, William F., assignor.)
Matchell, George, South Pasadena, Cal. Fire, smoke, steam, and air shaft. No. 1,014,969; Jan. 16; Sp. p. 4199; Gaz. vol. 174; p. 707.
Matchette, Frank J. (See Cramer, Robert, assignor.)
Matchette, Frank J. (See Van Ness, Frank W., assignor.)
Matchette, Frank J., Milwaukee, Wis. Vacuum-sweeper. No. 1,020,104; Mar. 12; Sp. p. 2340; Gaz. vol. 176; p. 400.
Matchette, Frank J., Milwaukee, Wis. Closure for vacuum service-inlets. No. 1,021,203; Mar. 26; Sp. p. 4659; Gaz. vol. 176; p. 854.
Matchette, Frank J., Milwaukee, Wis. Vacuum-sweeper. No. 1,035,372; Aug. 13; Gaz. vol. 181; p. 360.
Matchless Heater Company, The. (See Stephenson, Thomas H., assignor.)
Matchless Lighter Company. (See Gould, Joseph B., assignor.)
Matear, Huon A., T. F. Kenney, and H. Woodhouse, Liverpool, England. Recording and indicating the working of hydraulic and electric lifts or hoists. No. 1,038,922; Sept. 17; Gaz. vol. 182; p. 661.
Mateer, George, Coatesville, Pa. Reaming-machine. (Reissue.) No. 13,422; May 21; Sp. p. 5096; Gaz. vol. 178; p. 857.
Mateer, Jesse E. (See Reynders and Mateer.)
Matejowitz, Charles, Kenosha, Wis. Weed-exterminator. No. 1,047,262; Dec. 17; Gaz. vol. 185; p. 578.
Mather, Allan G. (See Vessot and Mather.)
Mather, Samuel W., Cleveland, Ohio. Vehicle-step. No. 1,026,102; May 14; Sp. p. 2245; Gaz. vol. 178; p. 378.
Mathers, Ezra A., assignor of one-half to D. W. Harner, Philadelphia, Pa. Ore-crusher. No. 1,017,780; Feb. 20; Sp. p. 3428; Gaz. vol. 175; p. 603.
Mathes, George, Bedford, Ind. Gutter. No. 1,013,194; Jan. 2; Sp. p. 218; Gaz. vol. 174; p. 37.
Mathesius, Walther, Charlottenburg, Germany. Hot-blast stove. No. 1,018,331; Feb. 20; Sp. 4625; Gaz. vol. 175; p. 794.
Mathesius, Walther, Charlottenburg, Germany. Economizer, regenerator, and the like. No. 1,027,875; May 28; Sp. p. 6138; Gaz. vol. 178; p. 1054.
Matheson, Axel C., Bangor, Wis. Fishing-rod. No. 1,033,430; July 23; Gaz. vol. 180; p. 1007.
Matheson, Charles A., Duluth, Minn. Carpenter's gage. No. 1,032,227; July 9; Gaz. vol. 180; p. 517.
Matheson, Donald W., Yorktown, Saskatchewan, Canada. Telescopic gun-sight attachment. No. 1,022,249; Apr. 2; Sp. p. 1053; Gaz. vol. 177; p. 168.
Matheson, John J., Teaneck, N. J., assignor to West Disinfecting Company, New York, N. Y. Liquid-mixing apparatus. No. 1,036,871; Aug. 27; Gaz. vol. 181; p. 941.
Matheson, William A. (See Holmes and Matheson.)
Mathew, George, Southsea, Eng. Combined skirt and blouse grip. No. 1,040,228; Oct. 1; Gaz. vol. 183; p. 186.
Mathews, Amos A., Bowling Green, Mo. Necktie-holder. No. 1,037,787; Sept. 3; Gaz. vol. 182; p. 203.
Mathews, Frederick C. (See Alley, Moses E., assignor.)
Mathews, George, New Castle, Pa. Nut-locking device. No. 1,030,106; June 18; Sp. p. 4441; Gaz. vol. 179; p. 767.
Mathews Gravity Carrier Company. (See Buck, Herman J., assignor.)
Mathews Gravity Carrier Company. (See Dehler, Albert S., assignor.)
Mathews Gravity Carrier Company. (See Moore, Frank E., assignor.)
Mathews, Stephen M., Toronto, Ontario, Canada. Heel-protector. No. 1,036,666; Aug. 27; Gaz. vol. 181; p. 873.
Mathewson, Stanley B., Atlanta, Ga., assignor, by mesne assignments, to Barber-Colman Company, Rockford, Ill. Means for securing the end portion of a warp. No. 1,019,332; Mar. 5; Sp. p. 732; Gaz. vol. 176; p. 114.
Mathey, Eugene F. (See Wilson and Mathey.)
Mathias, David W., Pottsville, Pa. Piling-bar. No. 1,039,563; Sept. 24; Gaz. vol. 182; p. 898.
Mathias, George F., Mahanoy City, Pa. Bottle-carrier. No. 1,032,921; July 16; Gaz. vol. 180; p. 797.
Mathiesen, Marius, San Antonio, Tex. Automatically-balancing aeroplane. No. 1,026,219; May 14; Sp. p. 2502; Gaz. vol. 178; p. 419.
Mathiesen, Marius, San Antonio, Tex. Resilient vehicle-wheel. No. 1,034,475; Aug. 6; Gaz. vol. 181; p. 24.
Mathiesen, Marius, San Antonio, Tex. Resilient wheel. No. 1,037,949; Sept. 10; Gaz. vol. 182; p. 293.
Mathis, Henry H., Camden, S. C. Resilient heel. No. 1,021,751; Mar. 26; Sp. p. 5809; Gaz. vol. 176; p. 1042.
Mathison, Joseph, Boston, Mass. Confectionery-coating machine. No. 1,032,014; July 9; Gaz. vol. 180; p. 445.
Mathus, Charles W., Wichita Falls, Tex. Cotton-chopper attachment. No. 1,024,799; Apr. 30; Sp. p. 6597; Gaz. vol. 177; p. 1160.
Mathy, Joseph, Washington, D. C. Crate-corner lock. No. 1,038,923; Sept. 17; Gaz. vol. 182; p. 662.
Mathys, John E., Springfield, Ohio. Molding-machine. No. 1,032,415; July 16; Gaz. vol. 180; p. 626.
Matitsch, August, assignor to M. Faber & Co., Vienna, Austria-Hungary. Lace-making machine. No. 1,036,872; Aug. 27; Gaz. vol. 181; p. 941.
Matkovcik, John, Michel, British Columbia, Canada. Rail chair and fastener. No. 1,044,215; Nov. 12; Gaz. vol. 184; p. 439.
Matlack, Albert F., Philadelphia, Pa. Gas-producer. No. 1,025,148; May 7; Sp. p. 77; Gaz. vol. 178; p. 14.
Matlack, Albert F., Philadelphia, Pa. Gas-producer. No. 1,025,198; May 7; Sp. p. 195; Gaz. vol. 178; p. 33.
Matlick, Isaac N., Portland, Oreg. Tellurian. No. 1,019,981; Mar. 12; Sp. p. 2078; Gaz. vol. 176; p. 358.
Matoushek, Frank, Witten, S. D. Wire barb. No. 1,039,159; Sept. 24; Gaz. vol. 182; p. 754.
Matricardi, Giuseppe, Pallanza, Italy. Gaseous-power generator. No. 1,036,288; Aug. 20; Gaz. vol. 181; p. 711.
Matson, Berthe E., Boston, Mass. Life-raft. No. 1,049,250; Dec. 31; Gaz. vol. 185; p. 1328.
Matson, Charles, Elizabeth, N. J. Non-refillable bottle. No. 1,020,997; Mar. 26; Sp. p. 4237; Gaz. vol. 176; p. 787.
Matson, Charles I., Chicago, Ill. Aerial machine. No. 1,019,168; Mar. 5; Sp. p. 359; Gaz. vol. 176; p. 57.
Matson, Charles I., Chicago, Ill. Aerial machine. No. 1,036,667; Aug. 27; Gaz. vol. 181; p. 873.
Matson, Edward E., Michigan City, Ind., assignor to The National Self-Registering Bank Co., Chicago, Ill. Registering savings-bank. No. 1,015,762; Jan. 23; Sp. p. 5885; Gaz. vol. 174; p. 1003.

Alphabetical list of patentees—Continued.

Matson, Harrison, St. Louis, Mo. Bat. No. 1,026,990; May 21; Sp. p. 4204; Gaz. vol. 178; p. 718.
Matson, Jean H., Loomis, Nebr. Hat. No. 1,035,209; Aug. 13; Gaz. vol. 181; p. 300.
Mattatuck Manufacturing Company, The. (See Bigelow, George E., assignor.)
Matter, Julius, Laacken, near Barmen, Germany. Apparatus for removing lye from fabrics. No. 1,037,280; Sept. 3; Gaz. vol. 182; p. 34.
Mattern, August, Baltimore, Md. Curtain-holder. No. 1,024,349; Apr. 23; Sp. p. 5527; Gaz. vol. 177; p. 968.
Mattern, Ernest O., Portland, Oreg. Centrifugal concentrator. No. 1,048,846; Dec. 31; Gaz. vol. 185; p. 1191.
Mattern, Joel D. (See Mattern, William F. and J. D.)
Mattern, William F. and J. D., Shamokin, Pa. Cutter-head. No. 1,025,149; May 7; Sp. p. 81; Gaz. vol. 178; p. 15.
Mattes, Francis H., Newton Falls, Ohio. Fruit-jar attachment. No. 1,037,649; Sept. 3; Gaz. vol. 182; p. 159.
Mattes, Henry, New York, N. Y. Portable cot. No. 1,020,998; Mar. 26; Sp. p. 4239; Gaz. vol. 176; p. 787.
Matteson, Milo D. (See Kitterman, George W., assignor.)
Matteson, Roy L., Santa Maria, Cal. Flying-machine. No. 1,024,011; Apr. 23; Sp. p. 4797; Gaz. vol. 177; p. 852.
Matteson, Vernie, assignor of one-half to R. B. Tolsma, Seattle, Wash. Oil-burner. No. 1,026,815; May 21; Sp. p. 3789; Gaz. vol. 178; p. 656.
Matteson, Walter C., San Jose, Cal. Means for mounting truck members on endless-band wheels. No. 1,020,105; Mar. 12; Sp. p. 2342; Gaz. vol. 176; p. 401.
Matteson, Walter C., San Jose, Cal. Band-tightener for flexible band-wheels. No. 1,039,421; Sept. 24; Gaz. vol. 182; p. 848.
Matthes, Richard, and R. Schirmer, Zeitz, Germany. Machine for polishing metal and precious metals. No. 1,045,578; Nov. 26; Gaz. vol. 184; p. 973.
Matthews, Algernon W., Haverhill, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Tool-support. No. 1,049,309; Dec. 31; Gaz. vol. 185; p. 1349.
Matthews, Charles H., Topeka, Kans. Hosiery-turner. No. 1,030,520; June 25; Sp. p. 5409; Gaz. vol. 179; p. 952.
Matthews, Charles H., assignor of one-half to L. Alexander, Clinton, Ill. Knockdown shipping-crate. No. 1,040,369; Oct. 8; Gaz. vol. 183; p. 264.
Matthews-Davis Tool Company. (See Davis, Emery E., assignor.)
Matthews, Edgar L., Peoria, Ill. Fly-trap. No. 1,039,984; Oct. 1; Gaz. vol. 183; p. 104.
Matthews, Edwin L., Minneapolis, Minn. Adding and listing machine. No. 1,028,896; June 11; Sp. p. 1790; Gaz. vol. 179; p. 313.
Matthews, Edwin S., New York, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Hydraulic-valve apparatus. No. 1,032,339; July 9; Gaz. vol. 180; p. 555.
Matthews, Edwin S., New York, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Safety device for elevators. No. 1,032,340; July 9; Gaz. vol. 180; p. 556.
Matthews, Frank T., Baltimore, Md. Coat. No. 1,017,781; Feb. 20; Sp. p. 3430; Gaz. vol. 175; p. 603.
Matthews, Frank T., Baltimore, Md. Vest. No. 1,031,078; July 2; Gaz. vol. 180; p. 81.
Matthews, George S., Kansas City, Mo. Device for indicating the intended movements of vehicles. No. 1,017,226; Feb. 13; Sp. p. 2229; Gaz. vol. 175; p. 379.
Matthews, James H., assignor to Jas. H. Matthews & Co., Pittsburgh, Pa. Holder for changeable type-blocks. No. 1,041,647; Oct. 15; Gaz. vol. 183; p. 730.
Matthews, James T., San Antonio, Tex. Transplanter. No. 1,038,924; Sept. 17; Gaz. vol. 182; p. 662.
Matthews, John V., and E. L. Kyle, Philadelphia, Pa. Speed-comparing device. No. 1,039,564; Sept. 24; Gaz. vol. 182; p. 899.
Matthews, Luther, Paris, Tenn. Incinerator for garbage, &c. No. 1,034,266; July 30; Gaz. vol. 180; p. 1319.
Matthews, Matthew H. (See Donald and Matthews.)
Matthews, Nate J., Newark, R. L. Johnstone, Glen Ridge, and A. W. Cash, Newark, N. J. Conveyer for wrapping and labeling machines. No. 1,024,012; Apr. 23; Sp. p. 4799; Gaz. vol. 177; p. 852.
Matthews, Robert E., assignor of one-third to S. L. Powell and one-third to C. C. Kirkpatrick, San Angelo, Tex. Hasp-fastener. No. 1,023,747; Apr. 16; Sp. p. 4182; Gaz. vol. 177; p. 734.
Matthews, Thomas A., Nashville, Tenn. Stationery-cabinet. No. 1,028,091; May 28; Sp. p. 6603; Gaz. vol. 178; p. 1124.
Matthews, Walter S., Pascagoula, Miss. Collapsible drinking-cup. No. 1,020,617; Mar. 19; Sp. p. 3428; Gaz. vol. 176; p. 607.
Matthews, William, assignor to G. W. Jones, London, England. Paper-feeding device. No. 1,045,418; Nov. 26; Gaz. vol. 184; p. 915.
Matthews, William A. (See King, Joseph S., assignor.)
Matthews, William B. (See Lewis, Jasper E., assignor.)
Matthews, William H., Jr., Philadelphia, Pa. Sand-feeding device. No. 1,016,509; Feb. 6; Sp. p. 625; Gaz. vol. 175; p. 96.
Matthias, Edward A., Liverpool, England. Means for fastening lids of packing-cases. No. 1,047,895; Dec. 17; Gaz. vol. 185; p. 801.
Matthies, Robert, and J. A. Shepherd, Hammond, Ind. Dump-box. No. 1,022,562; Apr. 9; Sp. p. 1707; Gaz. vol. 177; p. 301.
Matthiessen, William, New York, N. Y. Baking-pan. No. 1,037,161; Aug. 27; Gaz. vol. 181; p. 1037.
Mattice, Asa M., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Shaft-bearing. No. 1,028,122; June 4; Sp. p. 60; Gaz. vol. 179; p. 14.
Mattingly, Albertus B., New York, N. Y. Ice-manufacturing apparatus. No. 1,041,317; Oct. 15; Gaz. vol. 183; p. 623.
Mattingly, Preston J., T. J. Hines, and J. J. Brennan, Louisville, Ky. Apparatus for distillation. No. 1,034,267; July 30; Gaz. vol. 180; p. 1319.
Mattison, James C., Vancouver, British Columbia, Canada. Trolley-head. No. 1,033,335; July 23; Gaz. vol. 180; p. 975.
Mattivi, Vigilio, Cedarhurst, Colo. Permutation-lock. No. 1,021,107; Mar. 26; Sp. p. 4449; Gaz. vol. 176; p. 823.
Mattman, Emil, Milwaukee Wis., assignor to Allis-Chalmers Company. Turbo construction. No. 1,030,595; June 25; Sp. p. 5645; Gaz. vol. 179; p. 978.
Mattoni, Henry W., assignor of one-half to M. F. Lynch, New York, N. Y. Pin-guard. No. 1,024,268; Apr. 23; Sp. p. 5391; Gaz. vol. 177; p. 944.
Mattoni, Henry W., assignor to C. B. W. Anderson, New York, N. Y. Game apparatus. No. 1,044,679; Nov. 19; Gaz. vol. 184; p. 631.
Mattox, Sylva. (See Mohr and Mattox.)
Mattson, Charles, Bremerton, Wash. Means for loading and unloading trucks. No. 1,025,287; May 7; Sp. p. 387; Gaz. vol. 178; p. 63.
Mattson, Ernst H., Chicago, Ill. Airship. No. 1,039,160; Sept. 24; Gaz. vol. 182; p. 754.
Mattson, John E. (See Moore, William, assignor.)
Mattson, Julius G., Plumb, Minn. Loader. No. 1,038,405; Sept. 10; Gaz. vol. 182; p. 446.
Mattsson, Alfred G., assignor to Great Lakes Engineering Works, Detroit, Mich. Pump. No. 1,017,106; Feb. 13; Sp. p. 1960; Gaz. vol. 175; p. 337.
Matula, Nicholas M., Johnstown, Pa. Muffler. No. 1,045,419; Nov. 26; Gaz. vol. 184; p. 916.
Matus, John, Torrington, Conn. Bottle-closure. No. 1,022,101; Apr. 2; Sp. p. 737; Gaz. vol. 177; p. 118.
Matutinovich, Matthew, New York, N. Y. Bottle. No. 1,047,100; Dec. 10; Gaz. vol. 185; p. 488.
Matych, Frederick J., Middletown, Conn. Stereotype-plate cutter. No. 1,016,347; Feb. 6; Sp. p. 254; Gaz. vol. 175; p. 39.
Matzner, Augusta. (See Goldsman, Alexander, assignor.)
Mauck, John A., Princeton, Ind. Supplementary spring attachment and shock-absorber for automobiles. No. 1,020,043; Mar. 12; Sp. p. 2207; Gaz. vol. 176; p. 380.
Maudslay, Reginald W., Coventry, England. Cape carthood. No. 1,046,093; Dec. 3; Gaz. vol. 185; p. 101.
Mauersberger, Karl W., Chemnitz, Germany. Apparatus for manufacturing plastic articles, relievos, hollow bodies, and the like of pulp. No. 1,041,129; Oct. 15; Gaz. vol. 183; p. 558.
Mauger, Andrew, and J. L. Hinderer, assignors to Massillon Steam & Hot Water Heating Company, Massillon, Ohio. Steam or hot-water heater. No. 1,027,389; May 21; Sp. p. 5077; Gaz. vol. 178; p. 854.
Mauger, Ralph A., Camden, N. J., assignor of one-half to E. Macneir, Philadelphia, Pa. Water-gage. No. 1,036,289; Aug. 20; Gaz. vol. 181; p. 711.
Maul, Alfred, Dresden, Germany. Linear-dimension gage. No. 1,044,555; Nov. 19; Gaz. vol. 184; p. 586.
Mauli, Edward N., Jacksonville, Fla. Fruit-grader. No. 1,035,887; Aug. 20; Gaz. vol. 181; p. 571.
Maupai, Eugene L., New York, N. Y. Bleaching process. No. 1,032,151; July 9; Gaz. vol. 180; p. 490.
Maupin, James W., Stuarts Draft, Va. Rural-carrier's routing device. No. 1,037,788; Sept. 3; Gaz. vol. 182; p. 204.
Mauran, Max, Niagara Falls, N. Y. Discharging-valve for fluid-holding receptacles. No. 1,027,136; May 21; Sp. p. 4569; Gaz. vol. 178; p. 768.
Mauran, Max, and J. H. MacMahon, Niagara Falls, N. Y. Economic process of producing gas. No. 1,031,017; July 2; Gaz. vol. 180; p. 59.
Maurer, Barnett, and A. Gordon, Killingly, Conn. Non-refillable bottle. No. 1,042,247; Oct. 22; Gaz. vol. 183; p. 969.
Maurer, Charles. (See Linder, John, assignor.)
Maurer, Frederick W., *et al.* (See Bremer, Russell H., assignor.)
Maurer, Herman A. (See Maurer, William and H. A.)
Maurer, Louis A., Newark, N. J. Clutch mechanism. No. 1,032,759; July 16; Gaz. vol. 180; p. 744.
Maurer, William and H. A., Rocklyn, Wash. Beet-top cutter. No. 1,039,161; Sept. 24; Gaz. vol. 182; p. 755.

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Maurice, Jules J., New York, N. Y. Sun-shield for the nose. No. 1,048,191; Dec. 24; Gaz. vol. 185; p. 927.
Maury, V. Le Beau. (See Austin, William P., assignor.)
Mauser, Paul, Oberndorf-on-the-Neckar, Germany. Automatic gun. No. 1,014,660; Jan. 16; Sp. p. 3502; Gaz. vol. 174; p. 600.
Mauser, Paul, Oberndorf-on-the-Neckar, Germany. Ejector device for automatic firearms. No. 1,035,210; Aug. 13; Gaz. vol. 181; p. 301.
Mauser, Paul, Oberndorf-on-the-Neckar, Germany. Small-arm. No. 1,040,718; Oct. 8; Gaz. vol. 183; p. 389.
Mauser, Paul, Oberndorf-on-the-Neckar, Germany. Firing mechanism for recoil-loading pistols with fixed barrels. No. 1,041,648; Oct. 15; Gaz. vol. 183; p. 730.
Mauser, Paul, Oberndorf-on-the-Neckar, Germany. Recoil-loading pistol with fixed barrel. No. 1,047,671; Dec. 17; Gaz. vol. 185; p. 724.
Mauser, Paul, Oberndorf-on-the-Neckar, Germany. Safety mechanism for firearms. No. 1,047,672; Dec. 17; Gaz. vol. 185; p. 724.
Mauss, Wilhelm, Johannesburg, Transvaal. Valve device for hydraulically-controlled self-feeding percussive apparatus. No. 1,015,449; Jan. 23; Sp. p. 5209; Gaz. vol. 174; p. 895.
Mauss, Wilhelm, Brack Pan, assignor to The Konomax Rock Drill Syndicate Limited, Johannesburg, Transvaal. Valveless engine. No. 1,037,033; Aug. 27; Gaz. vol. 181; p. 994.
Maussner, Frederick, Philadelphia, Pa. Interwoven-curled-hair mattress. No. 1,035,622; Aug. 13; Gaz. vol. 181; p. 443.
Mauthe, Robert, Denver, Colo. Electrically-operated alarm-clock. No. 1,048,987; Dec. 31; Gaz. vol. 185; p. 1239.
Mautner, Ludwig J., Vienna, Austria-Hungary. Apparatus for determining the moment when a ship's gun passes through a predetermined elevation. No. 1,035,122; Aug. 6; Gaz. vol. 181; p. 239.
Maves, Christian, Davenport, Iowa. Road-grading machine. No. 1,037,281; Sept. 3; Gaz. vol. 182; p. 34.
Maw Brakes Limited. (See Maw, Robert, assignor.)
Maw, Edmund M., Depew, assignor to Gould Coupler Company, New York, N. Y. Car-coupling. No. 1,015,052; Jan. 16; Sp. p. 4375; Gaz. vol. 174; p. 734.
Maw, Robert, assignor to Maw Brakes Limited, Montreal, Quebec, Canada. Car-stopping device. No. 1,015,628; Jan. 23; Sp. p. 5594; Gaz. vol. 174; p. 958.
Max Zeitler Engraving & Supply Co. (See Demery, Joseph H., assignor.)
Max Zeitler Engraving & Supply Co. (See Demery, Thomas R., assignor.)
Maxey, Robert E. L., Hot Springs, Ark. Railway-tie and fastener. No. 1,026,816; May 21; Sp. p. 3790; Gaz. vol. 178; p. 656.
Maxi Company. (See Weiss, Arthur J., assignor.)
Maxim, Hiram P., Hartford, Conn. Gas-engine silencer. No. 1,015,698; Jan. 23; Sp. p. 5758; Gaz. vol. 174; p. 981.
Maxim, Hiram P., Hartford, Conn. Automobile-starter. No. 1,020,106; Mar. 12; Sp. p. 2344; Gaz. vol. 176; p. 401.
Maxim, Hiram P., Hartford, Conn., assignor to Maxim Silent Firearms Company, New York, N. Y. Silencing device for firearms. No. 1,018,720; Feb. 27; Sp. p. 5534; Gaz. vol. 175; p. 958.
Maxim, Hiram P., Hartford, Conn., assignor to The Waverley Company, Indianapolis, Ind. Motor-vehicle. No. 1,021,061; Mar. 26; Sp. p. 4363; Gaz. vol. 176; p. 810.
Maxim, Hosea F., assignor of one-half to O. Wells, Norfolk, Va. Connector for electric conductors. No. 1,039,422; Sept. 24; Gaz. vol. 182; p. 848.
Maxim, Hosea F., assignor of one-half to O. Wells, Norfolk, Va. Connector for electric conductors. No. 1,039,423; Sept. 24; Gaz. vol. 182; p. 848.
Maxim, Hosea F., assignor of one-half to O. Wells, Norfolk, Va. Connector for electric conductors. No. 1,039,424; Sept. 24; Gaz. vol. 182; p. 848.
Maxim, Hudson, Hopatcong, N. J. Automobile torpedo and method of and apparatus for its propulsion. No. 1,014,014; Jan. 9; Sp. p. 2063; Gaz. vol. 174; p. 348.
Maxim, Hudson, Hopatcong borough, N. J. Torpedo-boat. No. 1,028,473; June 4; Sp. p. 909; Gaz. vol. 179; p. 136.
Maxim, Hudson, Hopatcong, N. J. Game of skill. No. 1,030,521; June 25; Sp. p. 5410; Gaz. vol. 179; p. 952.
Maxim, Hudson, New York, N. Y. War vessel. No. 1,028,472; June 4; Sp. p. 906; Gaz. vol. 179; p. 136.
Maxim, Hudson, Brooklyn, N. Y. Combined multibarrel gun and range-finder. No. 1,031,279; July 2; Gaz. vol. 180; p. 152.
Maxim, Hudson, Hopatcong, N. J., assignor to E. I. du Pont de Nemours Powder Company. Explosive charge for ordnance. No. 1,015,814; Jan. 30; Sp. p. 5988; Gaz. vol. 174; p. 1047.
Maxim Silent Firearms Company. (See Maxim, Hiram P., assignor.)
Maxwell, Bert C., Canton, Ohio. Money-holder. No. 1,036,873; Aug. 27; Gaz. vol. 181; p. 941.
Maxwell, Bert C., Canton, Ohio. Account-cabinet. No. 1,048,088; Dec. 24; Gaz. vol. 185; p. 893.
Maxwell, Bert C., assignor to J. Whiting, Jr., trustee, Canton, Ohio. Manifolding-book. No. 1,043,330; Nov. 5; Gaz. vol. 184; p. 102.
Maxwell-Briscoe Motor Company. (See Dahl, Harry G., assignor.)
Maxwell, David, Detroit, Mich. Metal reinforcement for concrete structures. No. 1,048,421; Dec. 24; Gaz. vol. 185; p. 1003.
Maxwell, Edward J., *et al.* (See Willett, Robert A., assignor.)
Maxwell, Fred A., Lakewood, Ohio. Envelop-sealing machine. No. 1,046,477; Dec. 10; Gaz. vol. 185; p. 275.
Maxwell, George S., Newark, N. J. Transmission-gearing. No. 1,039,425; Sept. 24; Gaz. vol. 182; p. 849.
Maxwell, John J., Washington, D. C. Hammock. No. 1,026,524; May 14; Sp. p. 3156; Gaz. vol. 178; p. 521.
Maxwell, John S., Anadarko, Okla. Book-holder. No. 1,026,523; May 14; Sp. p. 3155; Gaz. vol. 178; p. 521.
Maxwell Manufacturing Company. (See Kennedy, Frank M., assignor.)
Maxwell, Marion D., Henderson, Iowa. Reel. No. 1,037,950; Sept. 10; Gaz. vol. 182; p. 293.
Maxwell, Marshall P., Brooklyn, N. Y. Post. No. 1,042,362; Oct. 22; Gaz. vol. 183; p. 1006.
Maxwell, Thomas A., Stephenville, Tex. Clamp. No. 1,035,800; Aug. 13; Gaz. vol. 181; p. 502.
Maxwell, Wes, and J. M. Allen, Hope, Ark. Fertilizer-distributer. No. 1,036,668; Aug. 27; Gaz. vol. 181; p. 874.
Maxwell, William G., Edinburgh, and E. J. C. Christie, Leith, Scotland. Manufacture of textile belting. No. 1,041,130; Oct. 15; Gaz. vol. 183; p. 558.
May, Albert E. (See Zahn, Charles B., assignor.)
May, Augustus, New Orleans, La. Water-cooling attachment for refrigerators. No. 1,013,795; Jan. 2; Sp. p. 1540; Gaz. vol. 174; p. 245.
May, Augustus, New Orleans, La. Indicator for railway-cars. No. 1,025,003; Apr. 30; Sp. p. 7007; Gaz. vol. 177; p. 1231.
May, Edward C., Watertown, Wis. Flour-sifting machine. No. 1,025,004; Apr. 30; Sp. p. 7010; Gaz. vol. 177; p. 1231.
May, Frederick, and J. H. Bleoo, New York, N. Y. Razor. No. 1,022,860; Apr. 9; Sp. p. 2365; Gaz. vol. 177; p. 405.
May, George H., Parkhead, Glasgow, Scotland. Heddle for wire-weaving. No. 1,023,263; Apr. 16; Sp. p. 3260; Gaz. vol. 177; p. 582.
May, Henry W., *et al.* (See Roberts, Henry P., assignor.)
May, John H., Napa, Cal. Railway-tie. No. 1,047,964; Dec. 24; Gaz. vol. 185; p. 852.
May, Joseph, Frankfort-on-the-Main, Germany. Arch-supporter. No. 1,033,184; July 23; Gaz. vol. 180; p. 925.
May, Joseph, Frankfort-on-the-Main, Germany. Orthopedic footwear. No. 1,043,331; Nov. 5; Gaz. vol. 184; p. 102.
May, Julius A., Genoa, Ill. Game. No. 1,041,834; Oct. 22; Gaz. vol. 183; p. 839.
May, Philomena, Pittsburgh, Pa. Combined sweeper and rake. No. 1,014,404; Jan. 9; Sp. p. 2930; Gaz. vol. 174; p. 486.
May, Solomon, Chicago, Ill. Sausage-casing. No. 1,036,290; Aug. 20; Gaz. vol. 181; p. 711.
May, Solomon, Chicago, Ill. Making sausage-casings. No. 1,036,291; Aug. 20; Gaz. vol. 181; p. 711.
May, William A., Quitman, Ga. Animal-trap. No. 1,032,228; July 9; Gaz. vol. 180; p. 518.
May, William M., assignor of one-half to S. F. Shannon, Philadelphia, Pa. Car-fender. No. 1,025,533; May 7; Sp. p. 957; Gaz. vol. 178; p. 149.
Mayer, Anton, Chicago, Ill. Airship. No. 1,030,826; June 25; Sp. p. 6365; Gaz. vol. 179; p. 1063.
Mayer, Bertram, and L. Weil, assignors to Society of Chemical Industry in Basle, Basel, Switzerland. Manufacture of a sulfureted vat dye of the anthracene series. No. 1,044,797; Nov. 19; Gaz. vol. 184; p. 673.
Mayer, Charles W., Rochester, N. Y., assignor to K. B. Mayer. Coating-machine. No. 1,043,021; Oct. 29; Gaz. vol. 183; p. 1265.
Mayer, Clarence, and S. Yaffe, assignors to Nature's Rival Company, Chicago, Ill. Form-pad. No. 1,018,066; Feb. 20; Sp. p. 4091; Gaz. vol. 175; p. 704.
Mayer, Godfried J., Buffalo, N. Y. Gasolene feed-chamber. No. 1,015,053; Jan. 16; Sp. p. 4379; Gaz. vol. 174; p. 735.
Mayer, Heinrich, Arbon, Switzerland. Tilting autotruck. No. 1,045,579; Nov. 26; Gaz. vol. 184; p. 973.
Mayer, Heinrich, assignor to The Firm of A. Saurer, Arbon, Switzerland. Motor-car frame. No. 1,016,282; Feb. 6; Sp. p. 106; Gaz. vol. 175; p. 16.
Mayer, Henry, New York, N. Y. Apparatus for projecting pictures during production. No. 1,036,131; Aug. 20; Gaz. vol. 181; p. 655.
Mayer, Henry J., Columbus, Ohio. Tailor's chalk sharpener, receptacle, and paper-weight. No. 1,018,768; Feb. 27; Sp. p. 5650; Gaz. vol. 175; p. 976.
Mayer, John L., Chicago, Ill. Clothes-wringer attachment for bath-tubs. No. 1,044,897; Nov. 19; Gaz. vol. 184; p. 706.
Mayer, Joshua W. (See Spaney and Mayer.)
Mayer, Joshua W., New York, N. Y. Jewelry. No. 1,045,106; Nov. 19; Gaz. vol. 184; p. 778.

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Mayer, Katherine B. (See Mayer, Charles W., assignor.)
Mayer, Louis. (See Klusmeyer, Frederick C. W., assignor.)
Mayer, Louis, Mankato, Minn. Knuckle connection and drive for vehicle-wheels. No. 1,027,137; May 21; Sp. p. 4571; Gaz. vol. 178; p. 768.
Mayer, Louis, Mankato, Minn. Wheel and journal. No. 1,029,762; June 18; Sp. p. 3678; Gaz. vol. 179; p. 648.
Mayer, Maximilian, Orange, J. N. Wiggin, East Orange, and R. W. Cornelison, Bloomfield, N. J., assignors to H. B. Wiggin's Sons Company. Size for walls. No. 1,044,405; Nov. 12; Gaz. vol. 184; p. 505.
Mayer, Maximilian, J. N. Wiggin, Orange, and R. W. Cornelison, Bloomfield, N. J., assignors to H. B. Wiggin's Sons Company. Composition of matter to be used as coating, size, or paste. No. 1,049,251; Dec. 31; Gaz. vol. 185; p. 1329.
Mayer-Verrie, Julius, London, England. Machine for cutting, folding, and collecting cigarette and other papers. No. 1,035,211; Aug. 13; Gaz. vol. 181; p. 301.
Mayer, Wilhelm, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Tilting ammunition-wagon. No. 1,045,719; Nov. 26; Gaz. vol. 184; p. 1024.
Mayer, Wilhelm, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Limber-coupling for artillery-vehicles. No. 1,045,720; Nov. 26; Gaz. vol. 184; p. 1024.
Mayer, Wilhelm, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Artillery-vehicle. No. 1,045,721; Nov. 26; Gaz. vol. 184; p. 1024.
Mayers, Alfred C., Salinas, assignor to D. C. Demarest, San Francisco, Cal. Nut-lock. No. 1,031,654; July 2; Gaz. vol. 180; p. 280.
Mayfield, Richard F., Oakland, Okla. Combined harrow and stalk-cutter. No. 1,046,094; Dec. 3; Gaz. vol. 185; p. 101.
Mayhall, William A., Gloster, Miss. Reversing mechanism. No. 1,048,559; Dec. 31; Gaz. vol. 185; p. 1090.
Mayhew, Joseph L., Oak Bluffs, Mass. Soldering-iron holder. No. 1,033,112; July 23; Gaz. vol. 180; p. 900.
Mayhew, Nathaniel L., Beaumont, Tex. Roundabout. No. 1,033,258; July 23; Gaz. vol. 180; p. 950.
Maynard, Frederick E. (See White, John C., assignor.)
Maynard, John F., *et al.* (See Sanford, Leverett A., assignor.)
Maynard, John R., and B. F. Massey, Charlotte, N. C. Plumb-level. No. 1,046,622; Dec. 10; Gaz. vol. 185; p. 326.
Maynes, Hyla F., Gaines, Pa. Machine for applying labels. No. 1,019,719; Mar. 5; Sp. p. 1538; Gaz. vol. 176; p. 239.
Mayo, Benjamin F., Salem, Mass. Contact-piece for furniture. No. 1,030,596; June 25; Sp. p. 5646; Gaz. vol. 179; p. 978.
Mayo, Benjamin F., Salem, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Gripper. No. 1,015,388; Jan. 23; Sp. p. 5075; Gaz. vol. 174; p. 875.
Mayo, Benjamin F., Salem, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Tension device. No. 1,028,474; June 4; Sp. p. 912; Gaz. vol. 179; p. 137.
Mayo, Edwin H., Richmond, Va. Hat-holder. No. 1,027,138; May 21; Sp. p. 4572; Gaz. vol. 178; p. 768.
Mayo, John. (See Kirby and Mayo.)
Mayo, Robert D., Sr., Grand Rapids, Mich. Metal casing. No. 1,048,988; Dec. 31; Gaz. vol. 185; p. 1239.
Mayo, Thomas H., Melrose Highlands, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for making heels. No. 1,025,534; May 7; Sp. p. 958; Gaz. vol. 178; p. 149.
Mayo, Virginius J., New Haven, Conn. Metal-bender. No. 1,031,136; July 2; Gaz. vol. 180; p. 102.
Mayo, Virginius J., New Haven, Conn. Radiator construction. No. 1,031,137; July 2; Gaz. vol. 180; p. 102.
Mayo, William C., El Paso, assignor of one-third to G. E. Briggs, Barstow, and one-third to J. Houlehan, El Paso, Tex. Controlling system for motor-traction cars. No. 1,022,324; Apr. 2; Sp. p. 1188; Gaz. vol. 177; p. 191.
Mayor, Johann, St. Petersburg, Russia. Apparatus for making tubes. No. 1,036,874; Aug. 27; Gaz. vol. 181; p. 942.
Mayr, Charles. (See Todd and Mayr.)
Mays, David P. (See Riefer and Mays.)
Mays, Gilbert U., Butler, Pa. Centering tool and punch. No. 1,029,386; June 11; Sp. p. 2860; Gaz. vol. 179; p. 481.
Mays, P. C., *et al.* (See Shropshire, Jesse C., assignor.)
Maytag Company, The. (See Snyder, Howard F., assignor.)
Maytag, Fred L. (See Snyder, Howard F., assignor.)
Maywald, Frederick J., Brooklyn, N. Y. Oil-separator. No. 1,048,717; Dec. 31; Gaz. vol. 185; p. 1145.
Maze, Harry T. (See Cliff and Maze.)
Mazurek, Andrzej, Philadelphia, Pa. Curtain-pole. No. 1,014,405; Jan. 9; Sp. p. 2931; Gaz. vol. 174; p. 486.
Mazzolini, Giuseppe, Naples, Italy. Protective plates for bulkhead-openings and the like. No. 1,022,688; Apr. 9; Sp. p. 1989; Gaz. vol. 177; p. 345.
Mazzolini, Giuseppe, Naples, Italy. Door, hatch, or like closing device. No. 1,029,620; June 18; Sp. p. 3364; Gaz. vol. 179; p. 599.
McAdam, Etta S., Drummond, Mich. Photographic-printing frame. No. 1,038,171; Sept. 10; Gaz. vol. 182; p. 366.
McAdam, John V. (See Everett and McAdam.)
McAdams, Francis J. (See Padden and McAdams.)
McAdams, George F., New York, N. Y. Jogger for paper-ruling machines or printing-presses. No. 1,028,475; June 4; Sp. p. 916; Gaz. vol. 179; p. 137.
McAdams, George F., New York, N. Y. Paper cutting, ruling, and assembling machine for making tablets. No. 1,028,476; June 4; Sp. p. 918; Gaz. vol. 179; p. 137.
McAdams, James F., Lima, Ill. Measuring and invoicing machine. No. 1,045,420; Nov. 26; Gaz. vol. 184; p. 916.
McAdie, Alexander G., San Francisco, Cal. Fruit-protector. No. 1,021,691; Mar. 26; Sp. p. 5674; Gaz. vol. 176; p. 1021.
McAdie, Alexander G., San Francisco, Cal. Plant-protector. No. 1,047,138; Dec. 10; Gaz. vol. 185; p. 503.
McAfee, Charles L., Beverly, Kans., assignor to Funsten Brothers & Company, St. Louis, Mo. Animal-trap. No. 1,048,422; Dec. 24; Gaz. vol. 185; p. 1004.
McAlister, John. (See McBurney and McAlister.)
McAllister, Angeline A. H., Cedarview, Utah. Undergarment. No. 1,038,620; Sept. 17; Gaz. vol. 182; p. 555.
McAllister, George B., Baltimore, Md., assignor to McAllister Street Car Mail Box Company. Mail-receptacle. No. 1,042,458; Oct. 29; Gaz. vol. 183; p. 1069.
McAllister, James H., O'Neill, Nebr. Folding carrier. No. 1,028,048; May 28; Sp. p. 6491; Gaz. vol. 178; p. 1110.
McAllister, John E., *et al.* (See Simon, Henry, assignor.)
McAllister Street Car Mail Box Company. (See McAllister, George B., assignor.)
McAneany, Bernard, Fitchburg, Mass. Loom-harness. No. 1,036,132; Aug. 20; Gaz. vol. 181; p. 655.
McAnelly, Homer H., Chicago, Ill. Tripping mechanism for camera-shutters. No. 1,043,951; Nov. 12; Gaz. vol. 184; p. 350.
McAnelly, Thomas H., Findlay, Ohio. Drawing instrument. No. 1,021,692; Mar. 26; Sp. p. 5676; Gaz. vol. 176; p. 1022.
McAnulty, John A. (See Cruikshank and McAnulty.)
McAnulty, Samuel E. (See Tichenor and McAnulty.)
McArdle, Arthur G., San Francisco, Cal. Electric-lamp fixture. No. 1,025,005; Apr. 30; Sp. p. 7012; Gaz. vol. 177; p. 1231.
McArdle, Michael W., assignor to Chicago Flexible Shaft Company, Chicago, Ill. Cutter for animal-shears. No. 1,019,333; Mar. 5; Sp. p. 734; Gaz. vol. 176; p. 114.
McArdle, Robert B. (See McArdle, William H. and R. B.)
McArdle, William H. and R. B., Camden, N. J. Envelop, card, and sheet feeder for type-writers. No. 1,038,406; Sept. 10; Gaz. vol. 182; p. 446.
McArthur, Andrew J., and J. R. Tucker, Springfield, Ga. Automatic oiler. No. 1,020,835; Mar. 19; Sp. p. 3898; Gaz. vol. 176; p. 681.
McArthur, Warren, Chicago, Ill., assignor of one-half to R. E. Dietz Company, New York, and one-half to C. T. Ham Manufacturing Company, Rochester, N. Y. Lantern-guard. No. 1,035,623; Aug. 13; Gaz. vol. 181; p. 444.
McArthur, William, Tenino, Wash. Locomotive-boiler. No. 1,015,501; Jan. 23; Sp. p. 5327; Gaz. vol. 174; p. 913.
McAtee, James C., Hiwasse, Ark. Animal-trap. No. 1,017,227; Feb. 13; Sp. p. 2230; Gaz. vol. 175; p. 379.
McAuley, Thomas, Reno, Nev. Compound high-pressure turbine-wheel. No. 1,017,438; Feb. 13; Sp. p. 2670; Gaz. vol. 175; p. 452.
McBarnes, Wade H., Decatur, Ind. Velocipede. No. 1,020,432; Mar. 19; Sp. p. 3019; Gaz. vol. 176; p. 547.
McBerty, Frank R., New Rochelle, assignor to Western Electric Company, New York, N. Y. Busy-test system for party telephone-lines. No. 1,045,306; Nov. 26; Gaz. vol. 184; p. 876.
McBerty, Frank R., New Rochelle, N. Y., assignor to Western Electric Company, Chicago, Ill. Electrical switch-contact. No. 1,046,823; Dec. 10; Gaz. vol. 185; p. 396.
McBerty, Frank R., New Rochelle, N. Y., assignor to Western Electric Company, Chicago, Ill. Making bimetallic plates. No. 1,046,824; Dec. 10; Gaz. vol. 185; p. 396.
McBrair, Henry C., Middletown, N. Y., assignor to Direct Drive Gear Company, Paterson, N. J. Transmission-gearing. No. 1,023,862; Apr. 23; Sp. p. 4472; Gaz. vol. 177; p. 801.
McBride, Albert P., Independence, Kans. Extracting appliance for use in oil or gas wells. No. 1,017,305; Feb. 13; Sp. p. 2387; Gaz. vol. 175; p. 406.
McBride, Albert P., Independence, Kans. Underreamer. No. 1,025,413; May 7; Sp. p. 671; Gaz. vol. 178; p. 106.
McBride, Charles C., assignor of one-half to J. M. Sparks, Bisbee, Ariz. Stone-truck. No. 1,023,024; Apr. 9; Sp. p. 2699; Gaz. vol. 177; p. 461.

Alphabetical list of patentees—Continued.

McBride, Charles R., New York, assignor of one-half to himself, and one-half to C. R. Laurenzi, Brooklyn, N. Y. Tension-anchor for hose-supporters. No. 1,015,054; Jan. 16; Sp. p. 4380; Gaz. vol. 174; p. 735.
McBride-Frazier Arc Lamp Company, The. (See McBride, Lewis M., assignor.)
McBride, Henry. (See Sowards, Charles J., assignor.)
McBride, Lewis M., assignor to The McBride-Frazier Arc Lamp Company, Denver, Colo. Electric-arc lamp. No. 1,039,162; Sept. 24; Gaz. vol. 182; p. 755.
McBride, Mary O., executrix. (See Morris, Charles W., assignor.)
McBride, Robert E., Mullen, Nebr. Monoplane. No. 1,041,131; Oct. 15; Gaz. vol. 183; p. 559.
McBride, Wilbur D. (See Morris, Charles W., assignor.)
McBroom, James E. (See Eubanks and McBroom.)
McBurney, Thomas J., Fort Bayard, and J. McAlister, Central, N. Mex. Screen for windows or doors. No. 1,016,842; Feb. 6; Sp. p. 1344; Gaz. vol. 175; p. 208.
McCaa, David G., Lancaster, Pa. Apparatus for the porduction of high-potential electric currents. No. 1,047,545; Dec. 17; Gaz. vol. 185; p. 678.
McCabe, Hugh, Lawrence, Mass. Flanging-machine. No. 1,030,416; June 25; Sp. p. 5133; Gaz. vol. 179; p. 915.
McCabe, James M. (See Buell, Fred B., assignor.)
McCabe, James P. (See Burkhardt, Martin L., assignor.)
McCabe, James T., New York, N. Y. Door-hanger. No. 1,038,502; Sept. 10; Gaz. vol. 182; p. 480.
McCabe, John S., assignor to Montclair Manufacturing and Machine Company, Bridgeville, Pa. Trolley-wheel. No. 1,030,597; June 25; Sp. p. 5648; Gaz. vol. 179; p. 979.
McCabe, Myles. (See Jackson, George A., assignor.)
McCaffrey, Philip F., New York, N. Y. Combination chair and couch. No. 1,024,944; Apr. 30; Sp. p. 6894; Gaz. vol. 177; p. 1211.
McCaffrey, Thomas. (See Hodges and McCaffrey.)
McCaghey, Peter B., Little Falls, N. Y. Means for coupling derrick-guys and the like. No. 1,047,965; Dec. 24; Gaz. vol. 185; p. 852.
McCain, Cyrus A., Oak Park, Ill. Sheet-delivery mechanism. No. 1,046,095; Dec. 3; Gaz. vol. 185; p. 101.
McCain, Frank J. (See Welty and McCain.)
McCall, Charnock H., Atlanta, Ga. Draft-regulator for fire-tube boilers. No. 1,023,949; Apr. 23; Sp. p. 4683; Gaz. vol. 177; p. 831.
McCall, Charnock H., Atlanta, Ga. Draft-regulator. No. 1,032,015; July 9; Gaz. vol. 180; p. 445.
McCall, Charnock H., Atlanta, Ga. Exhaust mechanism for engines. No. 1,032,016; July 9; Gaz. vol. 180; p. 446.
McCall, Henry S., Ogeechee, Ga. Automobile-extricator. No. 1,034,635; Aug. 6; Gaz. vol. 181; p. 77.
McCall, Thomas A., Cincinnati, Ohio. Mechanism for automatically operating levers. No. 1,024,092; Apr. 23; Sp. p. 4979; Gaz. vol. 177; p. 880.
McCall, Thomas A., assignor to The Automatic Typewriter Company, Cleveland, Ohio. Mechanism for feeding paper to type-writers. No. 1,029,206; June 11; Sp. p. 2462; Gaz. vol. 179; p. 419.
McCall, Thomas A., assignor to The National Automatic Typewriter Company, Cincinnati, Ohio. Perforating-machine. No. 1,048,560; Dec. 31; Gaz. vol. 185; p. 1090.
McCallister, Oscar N., Mount Vernon, Ind. Detachable limousine-top for automobiles. No. 1,026,358; May 14; Sp. p. 2814; Gaz. vol. 178; p. 466.
McCallum, James W., Plymouth, Ind. Vehicle-wheel. No. 1,033,185; July 23; Gaz. vol. 180; p. 925.
McCallum, Joseph A., Crestline, Ohio. Automatic lubricator for journal-bearings. No. 1,039,426; Sept. 24; Gaz. vol. 182; p. 849.
McCallum, William A., Cincinnati, Ohio. Hanger for trolley-wires. No. 1,047,546; Dec. 17; Gaz. vol. 185; p. 678.
McCalmont, Robert. (See Ames, Oscar H., assignor.)
McCampbell, W. E., *et al.* (See Opsahl, Tidemand, assignor.)
McCann, Andrew, Fall City, Wash. Shingle-press. No. 1,032,489; July 16; Gaz. vol. 180; p. 651.
McCann, Benjamin, Moundsville, W. Va. Rail-fastening. No. 1,017,575; Feb. 13; Sp. p. 2944; Gaz. vol. 175; p. 497.
McCann, Kerney, *et al.* (See Lisch, Jacob J., assignor.)
McCann, Lewis E., assignor of one-half to W. J. Schaefer, Ontario, and one-half to Los Angeles Can Company, Los Angeles, Cal. Means for conveying cans in exhausters, cookers, &c. No. 1,023,087; Apr. 9; Sp. p. 2837; Gaz. vol. 177; p. 483.
McCann, William B., Omaha, Nebr. Ice-cream freezer. No. 1,013,672; Jan. 2; Sp. p. 1287; Gaz. vol. 174; p. 201.
McCarry, William H., Pittsfield, Mass. Folding bed. No. 1,028,372; June 4; Sp. p. 678; Gaz. vol. 179; p. 102.
McCarthy, James J. (See Sullivan, Jeremiah J., assignor.)
McCarthy, John J., Yardley, Pa. Cigar-box cabinet. No. 1,039,163; Sept. 24; Gaz. vol. 182; p. 755.
McCarthy, Louis, Boston, Mass. Insulator. No. 1,035,212; Aug. 13; Gaz. vol. 181; p. 301.
McCarthy, Louis, Boston, Mass. Insulating-joint. No. 1,042,019; Oct. 22; Gaz. vol. 183; p. 895.
McCarthy, Martin F., Davenport, Iowa. Expansion-joint for concrete pavements. No. 1,033,431; July 23; Gaz. vol. 180; p. 1007.
McCarthy, Mitchell F., New York, N. Y. Building structure. No. 1,027,058; May 21; Sp. p. 4373; Gaz. vol. 178; p. 742.
McCarthy, Mitchell F., New York, N. Y. Floor structure. No. 1,047,966; Dec. 24; Gaz. vol. 185; p. 852.
McCarthy, Peter T., J. and E. Michmershuizen, Holland, Mich. Fumigator. No. 1,022,491; Apr. 9; Sp. p. 1553; Gaz. vol. 177; p. 279.
McCarthy, Terrance, assignor of one-half to W. McCarthy, Jackson, Mich. Car-door lock. No. 1,027,265; May 21; Sp. p. 4812; Gaz. vol. 178; p. 811.
McCarthy, Thomas F., Boston, Mass. Cleat for base-ball shoes. No. 1,034,476; Aug. 6; Gaz. vol. 181; p. 24.
McCarthy, Thomas J., Detroit, Mich. Gas-starter for internal-combustion engines. No. 1,046,825; Dec. 10; Gaz. vol. 185; p. 397.
McCarthy, William. (See McCarthy, Terrance, assignor.)
McCarthy, William B. (See Hayes, Robert D., assignor.)
McCarthy, William E., Seattle, Wash. Liquid-fuel burner. No. 1,041,649; Oct. 15; Gaz. vol. 183; p. 731.
McCarthy, William M., assignor to The National Cash Register Company, Dayton, Ohio. Cash-register. No. 1,033,432; July 23; Gaz. vol. 180; p. 1007.
McCarthy, William M., assignor to The National Cash Register Company, Dayton, Ohio. Cash-register. No. 1,034,477; Aug. 6; Gaz. vol. 181; p. 25.
McCartney, James H. (See Fellows, Irving D., assignor.)
McCarty, Edward W. (See Flynn, Michael J., assignor.)
McCarty, Eugene J. (See Baker and McCarty.)
McCarty, Eugene J., Clinton, Mass. Valve. No. 1,034,370; July 30; Gaz. vol. 180; p. 1355.
McCarty, Eugene J., assignor to W. R. Dame, trustee, Clinton, Mass. Vehicle-tire. No. 1,039,427; Sept. 24; Gaz. vol. 182; p. 850.
McCarty, Eugene J., assignor to T. J. McNamara, Clinton, Mass. Steam-turbine. No. 1,047,967; Dec. 24; Gaz. vol. 185; p. 852.
McCarty, Grant W., and D. F. Harness; said Harness assignor, by mesne assignments, to F. W. Inglis, Oklahoma, Okla. Transom-lift. No. 1,035,719; Aug. 13; Gaz. vol. 181; p. 476.
McCarty, John P., K. Douglas, Oakland, and F. P. Herrguth, assignors to Universal Wireless Telephone and Telegraph Company, San Francisco, Cal. Wireless-telephone transmitter. No. 1,044,798; Nov. 19; Gaz. vol. 184; p. 673.
McCarty, Lawrence J., trustee. (See Morse, James A., assignor.)
McCarty, Norman, assignor to Atlas Engine Works, Indianapolis, Ind. Pump. No. 1,014,242; Jan. 9; Sp. p. 2572; Gaz. vol. 174; p. 428.
McCarty, Patrick, Honesdale, Pa. Tricycle No. 1,031,280; July 2; Gaz. vol. 180; p. 152.
McCarty, William F. M., New York, N. Y. Hydraulic concentrating and amalgamating apparatus. No. 1,047,673; Dec. 17; Gaz. vol. 185; p. 725.
McCarty, Willis A., Doniphan, Mo. Folding table. No. 1,042,020; Oct. 22; Gaz. vol. 183; p. 895.
McCaskey, Alfred S., assignor, by mesne assignments, to McCaskey Electric Calculator Company, Chicago, Ill. Calculating-machine. No. 1,018,510; Feb. 27; Sp. p. 5050; Gaz. vol. 175; p. 888.
McCaskey Electric Calculator Company. (See McCaskey, Alfred S., assignor.)
McCaskey, Perry A., Alliance, Ohio. Multiple cash-recorder. No. 1,043,332; Nov. 5; Gaz. vol. 184; p. 103.
McCaskey, Perry A., assignor to The McCaskey Register Company, Alliance, Ohio. Credit-accounting appliance. (Reissue.) No. 13,390; Mar. 26; Sp. p. 5822; Gaz. vol. 176; p. 1043.
McCaskey Register Company, The. (See McCaskey, Perry A., assignor.) (Reissue.)
McCaslin, Harry M., assignor to American-La France Fire Engine Company, Elmira, N. Y. Pressure-medium container. No. 1,028,373; June 4; Sp. p. 679; Gaz. vol. 179; p. 102.
McCaslin, William, assignor to Draper Company, Hopedale, Mass. Loom-shuttle. No. 1,017,782; Feb. 20; Sp. p. 3431; Gaz. vol. 175; p. 604.
McCaslin, William, assignor to Draper Company, Hopedale, Mass. Thread-parting mechanism for looms. No. 1,035,213; Aug. 13; Gaz. vol. 181; p. 302.
McCauley, Albert J., St. Louis, Mo. Car-truck. No. 1,027,746; May 28; Sp. p. 5793; Gaz. vol. 178; p. 1009.
McCauley, Albert J., St. Louis, Mo. Car-truck. No. 1,027,747; May 28; Sp. p. 5795; Gaz. vol. 178; p. 1010.
McCauley, Albert J., St. Louis, Mo. Car-truck. No. 1,027,748; May 28; Sp. p. 5797; Gaz. vol. 178; p. 1010.
McCauley, Albert J., St. Louis, Mo. Car-truck. No. 1,028,049; May 28; Sp. p. 6493; Gaz. vol. 178; p. 1111.
McCauley, Albert J., assignor to C. A. Garvey, St. Louis, Mo. Printing-machine. No. 1,045,722; Nov. 26; Gaz. vol. 184; p. 1025.
McCauley, Albert J., assignor to Double Body Bolster Company, St. Louis, Mo. Car-underframe. No. 1,046,826; Dec. 10; Gaz. vol. 185; p. 397.

Alphabetical list of patentees—Continued.

McCauley, John L. (See McLean and McCauley.)
McCausland, James, and W. Bailey, Edmonton, Alberta, Canada. Window sash and frame. No. 1,025,414; May 7; Sp. p. 675; Gaz. vol. 178; p. 106.
McChesney, John S., Chicago, Ill. Broom-banding machine. No. 1,014,887; Jan. 16; Sp. p. 4015; Gaz. vol. 174; p. 678.
McClair, Charles, Schenectady, N. Y., assignor to General Electric Company. Electrical measuring instrument. No. 1,022,795; Apr. 9; Sp. p. 2235; Gaz. vol. 177; p. 383.
McClaskey, Charles H., Carneyville, Wyo. Lubricant journal-box. No. 1,019,814; Mar. 12; Sp. p. 1735; Gaz. vol. 176; p. 303.
McClatchie, John M., assignor of one-half to R. E. Cogland, Huntingdon, Quebec, Canada. Coin slot-machine. No. 1,046,096; Dec. 3; Gaz. vol. 185; p. 102.
McClave, Lee S., Peabody, Kans. Spring bicycle-frame. No. 1,014,888; Jan. 16; Sp. p. 4018; Gaz. vol. 174; p. 679.
McClay, Charles M., Washington, D. C. Antislipping overshoe for horses. No. 1,031,281; July 2; Gaz. vol. 180; p. 153.
McClean, Samuel N., Cleveland, Ohio. Vehicle wheel and tire. No. 1,015,238; Jan. 16; Sp. p. 4723; Gaz. vol. 174; p. 796.
McClean, Samuel N., Cleveland, Ohio, assignor, by mesne assignments, to The Automatic Arms Company. Automatic machine-gun. No. 1,042,135; Oct. 22; Gaz. vol. 183; p. 932.
McClean, Samuel N., Cleveland, Ohio, assignor, by mesne assignments, to The Automatic Arms Company. Breech-loading and discharge-actuated firearm. No. 1,042,363; Oct. 22; Gaz. vol. 183; p. 1007.
McClellan, Benjamin S., Chicago, Ill. Metallic sash. No. 1,045,580; Nov. 26; Gaz. vol. 184; p. 974.
McClellan, Clarence L., Aransas Pass, Tex. Tube-compressing device. No. 1,033,717; July 23; Gaz. vol. 180; p. 1100.
McClellan, Edward J. (See Garvin and McClellan.)
McClellan, Stephen, Brooklyn, N. Y. Foldable umbrella. No. 1,013,555; Jan. 2; Sp. p. 1012; Gaz. vol. 174; p. 162.
McClellan, Stephen, Brooklyn, N. Y. Foldable umbrella. No. 1,027,426; May 28; Sp. p. 5162; Gaz. vol. 178; p. 904.
McClellon, James M., Everett, Mass. Superheater. No. 1,038,172; Sept. 10; Gaz. vol. 182; p. 366.
McClendon, Fred H. (See McClendon, James T. and F. H.)
McClendon, James T. and F. H., Lufkin, Tex. Hitching device. No. 1,016,348; Feb. 6; Sp. p. 256; Gaz. vol. 175; p. 40.
McClintock, Charles D., assignor of fifty-eight one-hundredths to S. Cornfield, Oakland, Cal. Power-transmission mechanism. No. 1,041,132; Oct. 15; Gaz. vol. 183; p. 559.
McClintock, Leroy. (See Beck, Herman P., assignor.)
McCloskey, Louis J. (See Phillips and McCloskey.)
McCloskey, Louis J., Carrick borough, assignor to Phillips Mine and Mill Supply Co., Pittsburgh, Pa. Car-door latch. No. 1,020,107; Mar. 12; Sp. p. 2349; Gaz. vol. 176; p. 402.
McCloskey, William, Maidstone, Ontario, Canada. Mop-wringer. No. 1,015,450; Jan. 23; Sp. p. 5211; Gaz. vol. 174; p. 896.
McCloud, Edward H., Columbus, Ohio. Flexible fire-resisting shutter. No. 1,013,945; Jan. 9; Sp. p. 1915; Gaz. vol. 174; p. 326.
McCloud, Edward H., Columbus, Ohio. Fire-resisting curtain. No. 1,014,315; Jan. 9; Sp. p. 2720; Gaz. vol. 174; p. 453.
McCloud, Edward H., Columbus, Ohio. Means for supporting and operating curtain-rollers. No. 1,015,331; Jan. 23; Sp. p. 4962; Gaz. vol. 174; p. 856.
McCloud, Edward H., Columbus, Ohio. Flexible fire-resisting shutter and slat therefor. No. 1,015,332; Jan. 23; Sp. p. 4963; Gaz. vol. 174; p. 856.
McCloud, Edward H., Columbus, Ohio. Mechanism for raising and lowering shutters or curtains. No. 1,019,169; Mar. 5; Sp. p. 364; Gaz. vol. 176; p. 57.
McCloud, Edward H., Columbus, Ohio. Automatic fire-resisting shutter. (Reissue.) No. 13,405; Apr. 16; Sp. p. 4261; Gaz. vol. 177; p. 748.
McCloud, Edward H., Columbus, Ohio. Fireproof door or shutter. No. 1,034,812; Aug. 6; Gaz. vol. 181; p. 139.
McCloud, Michael J., Brooklyn, assignor to I. E. Ikelheimer, New York, N. Y. Valve. No. 1,014,501; Jan. 9; Sp. p. 3100; Gaz. vol. 174; p. 515.
McCloy, Alfred, and J. W. Bolger, Stratford, Ontario, Canada. Pickling-machine. No. 1,046,315; Dec. 3; Gaz. vol. 185; p. 180.
McCloy, John H., Gradatim, and A. M. Brown, Oakmont, Pa. Stay-bolt construction for steam-boilers. No. 1,025,706; May 7; Sp. p. 1322; Gaz. vol. 178; p. 206.
McClung, Emory, assignor to E. F. Goodwin, Clarksburg, W. Va. Door-sign. No. 1,029,506; June 11; Sp. p. 3117; Gaz. vol. 179; p. 523.
McClure, Andrew F., *et al.* (See Lynch, Phillip J., assignor.)
McClure, Charles W., Saginaw, Mich. Hoop-fastening means for silos. No. 1,015,815; Jan. 30; Sp. p. 5991; Gaz. vol. 174; p. 1047.
McClure, Charles W., Saginaw, Mich. Silo-roof construction. No. 1,019,334; Mar. 5; Sp. p. 734; Gaz. vol. 176; p. 114.
McClure, Edward, assignor of one-half to F. P. Smith, Chicago, Ill. Supporting mechanism for doors and other objects. No. 1,019,335; Mar. 5; Sp. p. 736; Gaz. vol. 176; p. 114.
McClure, Ira, Marion, Ind. Dish-washer. No. 1,036,669; Aug. 27; Gaz. vol. 181; p. 874.
McClure, Joseph A., Emporia, Kans. Stamp. No. 1,040,719; Oct 8; Gaz. vol. 183; p. 389.
McClure, Ora D., Ishpeming, Mich. Guide for elevator cars or cages. No. 1,037,282; Sept. 3; Gaz. vol. 182; p. 34.
McClure, Samuel, Oil Springs, Ontario, Canada. Water-power wheel. No. 1,033,433; July 23; Gaz. vol. 180; p. 1008.
McClure, William C., *et al.* (See Meis, William, assignor.)
McCluskey, Daniel J., San Francisco, Cal. Vehicle-spring. No. 1,019,336; Mar. 5; Sp. p. 738; Gaz. vol. 176; p. 115.
McCluskey, Frank, New York, N. Y. Joint for tubular piling. No. 1,025,759; May 7; Sp. p. 1437; Gaz. vol. 178; p. 225.
McCluskey, James, North Bay, Ontario, Canada. Relief-valve for locomotives. No. 1,045,307; Nov. 26; Gaz. vol. 184; p. 876.
McCluskey, James L., Pittsburg, Kans. Call for ducks. No. 1,043,123; Nov. 5; Gaz. vol. 184; p. 26.
McCoig, Franklin P., Durant, Okla. Corn-popping machine. No. 1,021,322; Mar. 26; Sp. p. 4908; Gaz. vol. 176; p. 897.
McCoig, Franklin P., Durant, Okla., assignor of one-half to A. F. Ninke, Inglewood, Cal. Cotton-picker. No. 1,038,925; Sept. 17; Gaz. vol. 182; p. 663.
McColgan, William, Marshall, Minn. Reamer. No. 1,019,679; Mar. 5; Sp. p. 1470; Gaz. vol. 176; p. 227.
McColl, Francis P., St. Andrews, New Brunswick, Canada, assignor to American Key Can Company, Chicago, Ill. Roll-top can. No. 1,039,164; Sept. 24; Gaz. vol. 182; p. 756.
McColl, Irving G., New York, N. Y. Flash-light apparatus. No. 1,023,161; Apr. 16; Sp. p. 3044; Gaz. vol. 177; p. 546.
McCollam, Patrick G., Easton, Conn. Sheet-music turner. No. 1,015,574; Jan. 23; Sp. p. 5483; Gaz. vol. 174; p. 938.
McCollom, Burton R., assignor to The A. J. Phillips Company, Fenton, Mich. Window-screen. No. 1,016,574; Feb. 6; Sp. p. 799; Gaz. vol. 175; p. 118.
McCollom, William J., Paterson, N. J. Razor stropping and grinding machine. No. 1,034,132; July 30; Gaz. vol. 180; p. 1271.
McColloms, Max R. (See Gruss and McColloms.)
McCollum, Alfred F., assignor of three-fifths to J. Magee, 2nd, Bloomsburg, Pa. Ice-skate carrier. No. 1,028,050; May 28; Sp. p. 6496; Gaz. vol. 178; p. 1111.
McCollum, Alfred F., assignor of three-fifths to J. Magee, 2d, Bloomsburg, Pa. Rug. No. 1,049,119; Dec. 31; Gaz. vol. 185; p. 1285.
McCollum, Alfred F., assignor of three-fifths to J. Magee, 2d, Bloomsburg, Pa. Turned-under edge-binding for fabrics. No. 1,049,120; Dec. 31; Gaz. vol. 185; p. 1286.
McCollum, Burton, Washington, D. C. Hysteresis starting device for induction-motors. No. 1,031,802; July 9; Gaz. vol. 180; p. 374.
McCollum, Burton, Washington, D. C. Alternating-current induction-motor. No. 1,035,373; Aug. 13; Gaz. vol. 181; p. 360.
McCollum, Burton, Washington, D. C. Induction-motor. No. 1,038,775; Sept. 17; Gaz. vol. 182; p. 610.
McCollum, Burton, Washington, D. C. Squirrel-cage rotor. No. 1,044,217; Nov. 12; Gaz. vol. 184; p. 440.
McCollum, Frank, and A. C. Hanner, Randleman, N. C. Lug-strap connector. No. 1,015,816; Jan. 30; Sp. p. 5992; Gaz. vol. 174; p. 1048.
McCollum, James H. K., Toronto, Ontario, Canada. Steam-engine. No. 1,046,827; Dec. 10; Gaz. vol. 185; p. 397.
McCollum, Norman D., Gore, Ga. Adjustable scraper. No. 1,032,291; July 9; Gaz. vol. 180; p. 539.
McComas, Charles F., Denison, Tex. Railway-tie. No. 1,043,621; Nov. 5; Gaz. vol. 184; p. 205.
McComb, James K., Oshawa, Ontario, Canada. Hook and eye clamp for sewing-machines. No. 1,032,017; July 9; Gaz. vol. 180; p. 446.
McComb, William N., New York, N. Y. Light-shield. No. 1,027,621; May 28; Sp. p. 5535; Gaz. vol. 178; p. 968.
McComb, William N., New York, N. Y. Kaleidoscope. No. 1,034,478; Aug. 6; Gaz. vol. 181; p. 25.
McComb, Willie R., San Francisco, Cal. Process and apparatus for harvesting cotton. No. 1,041,650; Oct. 15; Gaz. vol. 183; p. 731.
McCombs, Charles H., Cleveland, assignor of one-half to C. S. Britton, Bratenahl, Ohio. Shock-absorber. No. 1,019,504; Mar. 5; Sp. p. 1150; Gaz. vol. 176; p. 169.
McConathy, Herbert. (See Sparks, Mirabeau E., assignor.)

Alphabetical list of patentees—Continued.

McConeghy, Fred, Bryan, Ohio. Railway-crossing. No. 1,044,680; Nov. 19; Gaz. vol. 184; p. 631.
McConkey, James H., *et al.* (See French, Francis J., assignor.)
McConnachie, William G., Medford, N. D. Draft-equalizer. No. 1,044,556; Nov. 19; Gaz. vol. 184; p. 586.
McConnaughy, Walter H., Pittsburgh, Pa. Crumb-collector. No. 1,013,195; Jan. 2; Sp. p. 219; Gaz. vol. 174; p. 37.
McConnell, Charles T., and E. B. Harris, Houstonia, Mo. Farm-gate. No. 1,033,336; July 23; Gaz. vol. 180; p. 976.
McConnell, David A., Thornton township, Buffalo county, Nebr. Closure for threshing-machines. No. 1,038,926; Sept. 17; Gaz. vol. 182; p. 663.
McConnell, Ernest, assignor of one-half to W. D. Hammond, Los Angeles, Cal. Safety swinging window. No. 1,019,337; Mar. 5; Sp. p. 740; Gaz. vol. 176; p. 115.
McConnell, Estus R. (See Johnson and McConnell.)
McConnell, Franz M., Longview, Tex. Nasal expander. No. 1,014,076; Jan. 9; Sp. p. 2208; Gaz. vol. 174; p. 369.
McConnell, John, assignor to The United Steel Company, Canton, Ohio. Making steel. No. 1,039,428; Sept. 24; Gaz. vol. 182; p. 850.
McConnell, John H., Winslow, Ind. Mustache-guard. No. 1,042,940; Oct. 29; Gaz. vol. 183; p. 1236.
McConnell, Joseph, Connellsville, Pa. Fluid-pressure motor. No. 1,013,885; Jan. 9; Sp. p. 1776; Gaz. vol. 174; p. 305.
McConnell, Ralph, Barton Heights, assignor of one-half to G. B. Hutchings, Richmond, Va. Bottle attachment. No. 1,042,705; Oct. 29; Gaz. vol. 183; p. 1157.
McConnell, Russell N., *et al.* (See Bergman and Clarke, assignors.)
McConnell, Samuel W., Tippecanoe, Ohio. Railway-tie and fastener. No. 1,041,133; Oct. 15; Gaz. vol. 183; p. 560.
McConnell, William, Vancouver, British Columbia, Canada. Paper-feeding device. No. 1,018,577; Feb. 27; Sp. p. 5251; Gaz. vol. 175; p. 912.
McConnell, William, Sioux Falls, S. D. Pipe-machine. No. 1,019,505; Mar. 5; Sp. p. 1152; Gaz. vol. 176; p. 169.
McConnell, William H., assignor to International Machine Corporation, Richmond, Va. Shoe-polishing machine. No. 1,024,589; Apr. 30; Sp. p. 6135; Gaz. vol. 177; p. 1086.
McConway & Torley Company, The. (See Buhoup, Harry C., assignor.)
McConway & Torley Company. (See Kelso, Joseph, assignor.)
McConway & Torley Company. (See Kelso, William, assignor.)
McConway & Torley Company, The. (See McConway, William, Jr., assignor.)
McConway & Torley Company, The. (See Milliken, Isaac H., assignor.)
McConway, William, Jr., assignor to The McConway & Torley Company, Pittsburgh, Pa. Coupling. No. 1,021,418; Mar. 26; Sp. p. 5147; Gaz. vol. 176; p. 931.
McConway, William, Jr., assignor to The McConway & Torley Company, Pittsburgh, Pa. Draft appliance for railway-cars. No. 1,021,419; Mar. 26; Sp. p. 5148; Gaz. vol. 176; p. 932.
McCool, William A., Beaver Falls, Pa., assignor to Hercules Tire & Rubber Company. Vulcanizing-mold. No. 1,019,506; Mar. 5; Sp. p. 1155; Gaz. vol. 176; p. 170.
McCoole, Gabriel W., Hot Springs, Ark. Hose-nozzle. No. 1,017,638; Feb. 13; Sp. p. 3068; Gaz. vol. 175; p. 517.
McCord, Alvin C., Chicago, Ill. Car-axle-box lid. No. 1,036,670; Aug. 27; Gaz. vol. 181; p. 875.
McCord, D. W. (See Misko, Joseph, assignor.)
McCord, Edward J. (See Hargraves and McCord.)
McCord, Herbert A., Chicago, Ill. Reinforced heat-retaining stone for fireless cookers. No. 1,034,268; July 30; Gaz. vol. 180; p. 1320.
McCord Manufacturing Company. (See Dietz, William, assignor.)
McCord, Ralph, St. Louis, Mo. Closet-seat. No. 1,018,721; Feb. 27; Sp. p. 5539; Gaz. vol. 175; p. 959.
McCord, Ralph, St. Louis, Mo. Closet-seat hinge. No. 1,018,722; Feb. 27; Sp. p. 5541; Gaz. vol. 175; p. 959.
McCord, Robert H. (See Hollier, Walter J., assignor.)
McCormack, William D., Nashville, Tenn. Cushion-tire. No. 1,042,941; Oct. 29; Gaz. vol. 183; p. 1236.
McCormick, Andrew, *et al.* (See Haney, Edwin H., assignor.)
McCormick, Andrew, Chicago Heights, Ill. Rotary engine. No. 1,014,162; Jan. 9; Sp. p. 2381; Gaz. vol. 174; p. 398.
McCormick, Frank L., and A. De Kleist, assignors to The Rudolph Wurlitzer Manufacturing Company, North Tonawanda, N. Y. Automatic musical instrument. No. 1,043,056; Oct. 29; Gaz. vol. 183; p. 1277.
McCormick, Harold F. (See James, Sydney V., assignor.)
McCormick, James F. (See Minto and McCormick.)
McCormick, John H., New Orleans, La. Cotton-seed delinter. No. 1,020,108; Mar. 12; Sp. p. 2350; Gaz. vol. 176; p. 402.
McCormick, John H., New Orleans, La. Cotton-seed-delinting drum. No. 1,038,927; Sept. 17; Gaz. vol. 182; p. 663.
McCormick, Richard P., Jr., Portland, Oreg. Side-dump car. No. 1,014,077; Jan. 9; Sp. p. 2208; Gaz. vol. 174; p. 370.
McCormick, Robert L., Terre Haute, Ind. Stadia attachment for angle-indicators. No. 1,048,718; Dec. 31; Gaz. vol. 185; p. 1146.
McCormick-Romme Company. (See Romme, William S., assignor.)
McCormick, Warren L., Sapulpa, Okla. Glass-lined pump-barrel. No. 1,019,507; Mar. 5; Sp. p. 1157; Gaz. vol. 176; p. 170.
McCormick, Warren L., Sapulpa, Okla. Pipe-coupling. No. 1,030,107; June 18; Sp. p. 4442; Gaz. vol. 179; p. 767.
McCornack, Herbert, West Chester, Pa. Internal-combustion engine. No. 1,036,503; Aug. 20; Gaz. vol. 181; p. 785.
McCotter, Charles R., assignor of one-half to G. S. Phillips, Jacksonville, Fla. Life-raft. No. 1,019,982; Mar. 12; Sp. p. 2084; Gaz. vol. 176; p. 359.
McCoubrie, Louden A., and C. F. Raydure, Philadelphia, Pa. Shoe for third-rail electric cars. No. 1,021,420; Mar. 26; Sp. p. 5150; Gaz. vol. 176; p. 932.
McCoubrie, Louden A., and C. F. Raydure, Philadelphia, Pa. Foldable shoe for third-rail electric cars. No. 1,045,581; Nov. 26; Gaz. vol. 184; p. 974.
McCourt, Cyril D. (See Bone, Wilson, and McCourt.)
McCourt, Cyril D., Streatham Common, London, assignor to Radiant Heating Limited, Leeds, England. Metal-melting furnace. No. 1,046,828; Dec. 10; Gaz. vol. 185; p. 398.
McCourt, William J., and M. W. Coghlan, Chicago, Ill. Water-meter. No. 1,034,479; Aug. 6; Gaz. vol. 181; p. 25.
McCoy, Elijah, Detroit, assignor to Ypsilanti Lubricator Company, Ypsilanti, Mich. Gage. No. 1,021,255; Mar. 26; Sp. p. 4782; Gaz. vol. 176; p. 873.
McCoy, Elijah, Detroit, assignor to Ypsilanti Lubricator Company, Ypsilanti, Mich. Lubricator. No. 1,031,948; July 9; Gaz. vol. 180; p. 423.
McCoy, James O., Manchester, N. H. Tool holder and heater. No. 1,035,720; Aug. 13; Gaz. vol. 181; p. 476.
McCoy, Josiah R., Marshalltown, Iowa. Earth-chipping machine. No. 1,025,475; May 7; Sp. p. 823; Gaz. vol. 178; p. 128.
McCoy, Levey, Memphis, Tenn. Embalming apparatus. No. 1,031,565; July 2; Gaz. vol. 180; p. 248.
McCoy, M. M. (See Douthit, George O., assignor.)
McCoy, Milton B., Colorado Springs, Colo. Combined mop holder and wringer. No. 1,046,829; Dec. 10; Gaz. vol. 185; p. 399.
McCoy, Ulysses G., Taskee Station, Mo. Underflow gravity-dam. No. 1,034,269; July 30; Gaz. vol. 180; p. 1320.
McCoy, Walter E. (See Sprong and McCoy.)
McCoy, Walter J., South Omaha, Nebr. Truck. No. 1,027,557; May 28; Sp. p. 5410; Gaz. vol. 178; p. 948.
McCoy, Willard E., East Liverpool, Ohio. Burner. No. 1,022,861; Apr. 9; Sp. p. 2367; Gaz. vol. 177; p. 405.
McCoy, William W., assignor to L. G. Freeman, Cincinnati, Ohio. Brush for power marking-machines. (Reissue.) No. 13,400; Apr. 9; Sp. p. 2914; Gaz. vol. 177; p. 496.
McCracken, William J., Sioux City, Iowa. Tile-making machine. No. 1,027,492; May 28; Sp. p. 5278; Gaz. vol. 178; p. 925.
McCrary, John W., Ethan, S. D. Papering-machine. No. 1,030,417; June 25; Sp. p. 5139; Gaz. vol. 179; p. 915.
McCrary, Merritt L., Ethan, S. D. Wheel-scoop. No. 1,015,969; Jan. 30; Sp. p. 6327; Gaz. vol. 174; p. 1101.
McCrea, Frederick E. (See McCue and McCrea.)
McCrea, John C., *et al.* (See Graham, Andrew W., assignor.)
McCreary, Louis F. (See Capper and McCreary.)
McCreery Engineering Company. (See Luehrs and Conant, assignors.)
McCrone, Patrick F., Scranton, Pa. Hame-fastener. No. 1,026,817; May 21; Sp. p. 3792; Gaz. vol. 178; p. 657.
McCroskey, David C., Yazoo City, Miss. Insect-destroying apparatus. No. 1,022,200; Apr. 2; Sp. p. 953; Gaz. vol. 177; p. 152.
McCrudden, Hugh, Cohoes, N. Y. Stop-motion for circular-knitting machines. No. 1,031,860; July 9; Gaz. vol. 180; p. 394.
McCue, Charles T., Hartford, Conn., assignor to F. E. Wilcox and L. E. Hickok, Mechanicsburg, Pa. Perch attachment for vehicles. No. 1,029,879; June 18; Sp. p. 3963; Gaz. vol. 179; p. 689.
McCue, Frank, New York, and F. E. McCrea, Troy, N. Y. Railway-rail coupling. No. 1,039,429; Sept. 24; Gaz. vol. 182; p. 850.
McCuller, James A. (See Ebbs and McCuller.)
McCulloch, Frederick L., Arcadia, Fla. Reversible steam-turbine. No. 1,016,080; Jan. 30; Sp. p. 6579; Gaz. vol. 174; p. 1142.
McCulloch, Harry G., assignor to The Stover Manufacturing Company, Freeport, Ill. Grinding-bur. No. 1,026,818; May 21; Sp. p. 3793; Gaz. vol. 178; p. 657.

Alphabetical list of patentees—Continued.

McCulloch, Harry G., assignor to The Stover Manufacturing Company, Freeport, Ill. Feed-mill. No. 1,037,951; Sept. 10; Gaz. vol. 182; p. 294.
McCulloch, John, Lostock-Gralam, England. Railway-sleeper. No. 1,041,134; Oct. 15; Gaz. vol. 183; p. 560.
McCulloch, John A., McKeesport, Pa. Valve. No. 1,016,167; Jan. 30; Sp. p. 6728; Gaz. vol. 174; p. 1170.
McCullough, John E. (See McDonald and McCullough.)
McCullough, Peter A., Pittsburgh, Pa. Trolley-harp. No. 1,026,689; May 21; Sp. p. 3518; Gaz. vol. 178; p. 613.
McCullough, Peter A., Pittsburgh, Pa. Trolley. No. 1,045,867; Dec. 3; Gaz. vol. 185; p. 25.
McCullough, Romain B., *et al.* (See Jackson, Orin V., assignor.)
McCullough, William T. (See Griffith and McCullough.)
McCully, Charles H. (See McCully, Richard P. and C. H.)
McCully, Richard P. and C. H., Brooklyn, N. Y. Surgical-instrument container. No. 1,043,333; Nov. 5; Gaz. vol. 184; p. 103.
McCune, Charles A. (See Bruckner and McCune.)
McCune, Frank R., assignor to Acme Hoisting Machinery Company, St. Louis, Mo. Hoisting-tower. No. 1,013,886; Jan. 9; Sp. p. 1780; Gaz. vol. 174; p. 305.
McCune, James B., Bowen, and B. T. Cubine, Kansas City, Mo. Oil-can. No. 1,045,868; Dec. 3; Gaz. vol. 185; p. 25.
McCune, William H., Monrovia, Cal. Freight-handling system. No. 1,040,229; Oct. 1; Gaz. vol. 183; p. 186.
McCurdy, Arthur W., Baddeck, Nova Scotia, Canada. Photographic negative and producing the same. No. 1,014,970; Jan. 16; Sp. p. 4200; Gaz. vol. 174; p. 707.
McCurdy, Horace L., Coleman, Tex. Transmission-gearing. No. 1,031,193; July 2; Gaz. vol. 180; p. 122.
McCurdy, Stewart L., Pittsburgh, Pa. Game apparatus. No. 1,030,108; June 18; Sp. p. 4443; Gaz. vol. 179; p. 767.
McCurry, James, Kearny, N. J. Curtain-roller. No. 1,019,338; Mar. 5; Sp. p. 742; Gaz. vol. 176; p. 115.
McCurry, John H., Grubbs, Ark. Curette. No. 1,033,914; July 30; Gaz. vol. 180; p. 1194.
McDaniel, James W. (See Kamerer, Emanuel A., assignor.)
McDaniel, John W., Holley, Fla. Gum-truck. No. 1,020,509; Mar. 19; Sp. p. 3178; Gaz. vol. 176; p. 571.
McDaniel, Robert L., Camden, Miss. Boring-machine. No. 1,016,283; Feb. 6; Sp. p. 107; Gaz. vol. 175; p. 17.
McDaniels, David H., Lancaster, Pa. Switch-operating device. No. 1,024,735; Apr. 30; Sp. p. 6451; Gaz. vol. 177; p. 1138.
McDermid, Archie, El Paso, Tex. Tool-handle. No. 1,042,942; Oct. 29; Gaz. vol. 183; p. 1237.
McDermott, Franklin P., Jr. (See Remy, McDermott, and Reuter.)
McDermott, Michael M., Brooklyn, N. Y. Stiffening device for garments. No. 1,019,339; Mar. 5; Sp. p. 745; Gaz. vol. 176; p. 116.
McDermott, Patrick. (See Bevard, Alvin F., assignor.)
McDermott, Thomas E. (See Campbell, John, assignor.)
McDevitt, Frederick H., Winthrop, Mass. Collapsible clearer-stick. No. 1,036,671; Aug. 27; Gaz. vol. 181; p. 875.
McDevitt, Joseph P., Philadelphia, Pa. Head-covering. No. 1,046,478; Dec. 10; Gaz. vol. 185; p. 275.
McDonald, Allan A., Potlatch, Idaho. Self-locking paper-file. No. 1,033,915; July 30; Gaz. vol. 180; p. 1195.
McDonald, Amanda, Central City, S. D. Detachable rubber heel. No. 1,039,306; Sept. 24; Gaz. vol. 182; p. 809.
McDonald, Arthur O., McCook, Nebr. Railway-tie plate and rail-fastener. No. 1,047,824; Dec. 17; Gaz. vol. 185; p. 776.
McDonald, Bernard C., Rockford, Ill. Holder for horses' manes. No. 1,024,690; Apr. 30; Sp. p. 6365; Gaz. vol. 177; p. 1121.
McDonald, Charles B., assignor to McDonald Machine Company, Chicago, Ill. Can-testing machine. No. 1,025,199; May 7; Sp. p. 198; Gaz. vol. 178; p. 33.
McDonald, Charles B. and C. D., Chicago, Ill. Three-compartment receptacle. No. 1,019,010; Feb. 27; Sp. p. 6168; Gaz. vol. 175; p. 1059.
McDonald, Charles B., and J. E. McCullough, assignors to McDonald Machine Company, Chicago, Ill. Can-testing machine. No. 1,013,796; Jan. 2; Sp. p. 1543; Gaz. vol. 174; p. 245.
McDonald, Charles D. (See McDonald, Charles B. and C. D.)
McDonald, Charles D., Chicago, Ill., assignor, by mesne assignments, to American Cork & Seal Company, Philadelphia, Pa. Machine for forming seals in metallic caps. No. 1,013,841; Jan. 2; Sp. p. 1637; Gaz. vol. 174; p. 262.
McDonald, Charles D., Chicago, Ill., assignor, by mesne assignments, to American Cork & Seal Company, Philadelphia, Pa. Machine for positioning and securing gaskets within metallic caps. No. 1,013,842; Jan. 2; Sp. p. 1643; Gaz. vol. 174; p. 262.
McDonald, Charles D., assignor to McDonald Machine Company, Chicago, Ill. Metal-working machine. No. 1,039,565; Sept. 24; Gaz. vol. 182; p. 899.
McDonald, Charles W., Austin, Tex. Machine for cracking nuts. No. 1,043,712; Nov. 5; Gaz. vol. 184; p. 235.
McDonald, Daniel J. (See Howe and McDonald.)
McDonald, Duncan A. L., Montreal, Quebec, Canada, assignor to The Pay-As-You-Enter-Car Corporation, New York, N. Y. Turnstile mechanism. No. 1,016,948; Feb. 13; Sp. p. 1596; Gaz. vol. 175; p. 281.
McDonald, Duncan A. L., Montreal, Quebec, Canada, assignor to The Pay-As-You-Enter-Car Corporation, New York, N. Y. Pay-as-you-enter car. No. 1,016,949; Feb. 13; Sp. p. 1598; Gaz. vol. 175; p. 282.
McDonald, George D., and G. H. Lockett, Glenrock, Wyo. Animal-catcher. No. 1,036,292; Aug. 20; Gaz. vol. 181; p. 711.
McDonald, George L., Paragould, Ark. Portable stand. No. 1,014,889; Jan. 16; Sp. p. 4020; Gaz. vol. 174; p. 679.
McDonald, John, Byron, assignor of one-half to R. Muirhead, Orchard Lake, Mich. Gearing. No. 1,015,055; Jan. 16; Sp. p. 4382; Gaz. vol. 174; p. 735.
McDonald, John A., and W. McDowall, Century, Fla. Invalid-bed. No. 1,046,830; Dec. 10; Gaz. vol. 185; p. 399.
McDonald, John M., assignor to A. Y. McDonald Mfg. Co., Dubuque, Iowa. Packed joint. No. 1,031,018; July 2; Gaz. vol. 180; p. 59.
McDonald, John M., Dubuque, Iowa, assignor to A. Y. McDonald Mfg. Co. Air-valve for tanks. No. 1,046,208; Dec. 3; Gaz vol. 185; p. 141.
McDonald, John R., Rockhill, S. C., assignor to New South Stock Co., Charlotte, N. C. Waste-cleaning machine. No. 1,031,655; July 2; Gaz. vol. 180; p. 280.
McDonald Machine Company. (See McDonald, Charles B., assignor.)
McDonald Machine Company. (See McDonald, Charles D., assignor.)
McDonald Machine Company. (See McDonald and McCullough, assignors.)
McDonald Mfg. Co., A. Y. (See McDonald, John M., assignor.)
McDonald, Samuel F., *et al.* (See Schneider, Frederick, assignor.)
McDonald, William, Curwensville, Pa. Carpet-fastener. No. 1,032,922; July 16; Gaz. vol. 180; p. 797.
McDonald, William, Swansea, England. Rotary engine. No. 1,034,133; July 30; Gaz. vol. 180; p. 1272.
McDonald, William T., Porterdale, Ga. Fender. No. 1,042,459; Oct. 29; Gaz. vol. 183; p. 1070.
McDonnell, Anthony F., Scranton, Pa. Door-catch. No. 1,048,989; Dec. 31; Gaz. vol. 185; p. 1240.
McDonnell, David, *et al.* (See Ironside, Matthew C., assignor.)
McDonner, Charley, assignor of one-half to G. Lambries, Manitowoc, Wis. Shade and curtain hanger. No. 1,039,566; Sept. 24; Gaz. vol. 182; p. 900.
McDonough, Robert H. O., Washington, Pa. Flushing apparatus. No. 1,027,622; May 28; Sp. p. 5538; Gaz. vol. 178; p. 968.
McDorman, Paul, assignor to The National Laundry Machinery Company, Dayton, Ohio. Washing-machine. No. 1,040,370; Oct. 8; Gaz. vol. 183; p. 264.
McDougal, Thomas W. (See Mallin, Isaac H., assignor.)
McDougall, Alexander and A. M., Duluth, Minn. Self-propelled vessel. No. 1,022,250; Apr. 2; Sp. p. 1054; Gaz. vol. 177; p. 168.
McDougall, Alexander M. (See McDougall, Alexander and A. M.)
McDougall Company. (See Bertram, Henry W., assignor.)
McDougall, George F. A., Dorchester, assignor of one-third to C. J. Scoulikas, Boston, Mass. Sanding device for motor-cars. No. 1,046,623; Dec. 10; Gaz. vol. 185; p. 326.
McDougall, John. (See Hutten and McDougall.)
McDougall, Neil, Minot, N. D. Truck. No. 1,049,252; Dec. 31; Gaz. vol. 185; p. 1329.
McDowall, William. (See McDonald and McDowall.)
McDowell, John G., Pittsburgh, Pa. Motor for pumps and other purposes. No. 1,023,214; Apr. 16; Sp. p. 3157; Gaz. vol. 177; p. 565.
McDowell, Roy, Salem, Oreg. Cherry-seeding machine. No. 1,048,331; Dec. 24; Gaz. vol. 185; p. 974.
McDuff, Daniel R., Berclair, Tex. Collar and necktie holder. No. 1,014,834; Jan. 16; Sp. p. 3894; Gaz. vol. 174; p. 661.
McDuffey, William, Chicago, Ill. Vehicle-fender. No. 1,041,318; Oct. 15; Gaz. vol. 183; p. 623.
McDuffie, Charles N., *et al.* (See McIntosh, McClellan, assignor.)
McElhone, Francis J., Jersey City, N. J. Electroplating. No. 1,018,332; Feb. 20; Sp. p. 4626; Gaz. vol. 175; p. 795.
McElhone, Francis J., Jersey City, N. J. Electroplating. No. 1,025,760; May 7; Sp. p. 1438; Gaz. vol. 178; p. 226.
McElliott, Joseph P., assignor to The Automatic Movable Headlight Company, Toledo, Ohio. Automatic directing means for headlights. No. 1,021,843; Apr. 2; Sp. p. 200; Gaz. vol. 177; p. 33.
McElroy, Jackson A., and W. B. Freeman, Hattiesburg, Miss. Combined rail-joint and nut-lock. No. 1,040,720; Oct. 8; Gaz. vol. 183; p. 389.
McElroy, James F., Albany, N. Y., assignor to Consolidated Car Heating Company. Switch. No. 1,023,264; Apr. 16; Sp. p. 3263; Gaz. vol. 177; p. 582.

Alphabetical list of patentees—Continued.

McElroy, James F., Albany, N. Y., assignor to Consolidated Car Heating Company. Car-heating coupling. No. 1,023,265; Apr. 16; Sp. p. 3265; Gaz. vol. 177; p. 583.
McElroy, James F., Albany, N. Y., assignor to Consolidated Car Heating Company. Electric heating system for boilers. No. 1,030,672; June 25; Sp. p. 5890; Gaz. vol. 179; p. 1007.
McElroy, James F., Albany, assignor, by mesne assignments, to The United States Light & Heating Company, New York, N. Y. Armature-winding. No. 1,039,307; Sept. 24; Gaz. vol. 182; p. 809.
McElroy, James H., Middletown, N. Y. Laying-nest. No. 1,014,316; Jan. 9; Sp. p. 2721; Gaz. vol. 174; p. 453.
McElroy, John H. (See Bystrom, John, assignor.)
McElroy, John H. (See Weiss, George, assignor.)
McElroy, John H., Chicago, Ill. Voting-machine. No. 1,044,799; Nov. 19; Gaz. vol. 184; p. 673.
McElroy, Joseph A., New York, N. Y. Sprinkler. No. 1,032,558; July 16; Gaz. vol. 180; p. 674.
McElroy, Patrick J., Cambridge, assignor of one-half to The Randall-Faichney Company, Boston, Mass. Piston for hypodermic syringes, &c. No. 1,036,672; Aug. 27; Gaz. vol. 181; p. 875.
McElroy, William E. (See Wearn, George W., assignor.)
McElvain, John L., Whitham, Mo. Pump. No. 1,034,270; July 30; Gaz. vol. 180; p. 1320.
McEntire, Alvin R., Folsom, Ga. Spring-wheel. No. 1,030,314; June 25; Sp. p. 4917; Gaz. vol. 179; p. 877.
McEven, Willard M. (See Lamb, Charles C., assignor.)
McEwen, Peter C., and F. W. Young, Detroit, Mich. Hernial truss-pad. No. 1,023,435; Apr. 16; Sp. p. 3585; Gaz. vol. 177; p. 637.
McEwing, Duncan S. (See Johnson and McEwing.)
McFadden, John J., Renovo, Pa. Attachment for typewriters. No. 1,018,511; Feb. 27; Sp. p. 5096; Gaz. vol. 175; p. 888.
McFadden, William P. H., *et al.* (See Lanaux, Alfred A., assignor.)
McFarlan, William J. (See Murdock and McFarlan.)
McFarland, Charles N., assignor to The Adder Machine Company, Kingston, Pa. Eliminating-key for adding-machines. No. 1,024,013; Apr. 23; Sp. p. 4802; Gaz. vol. 177; p. 853.
McFarland, Frank H. (See Eddleman and McFarland.)
McFarland, William T., Chicago, Ill. Combination gravity sash-lock and weather-strip. No. 1,045,869; Dec. 3; Gaz. vol. 185; p. 25.
McFarlane, George W., Paris, Ontario, Canada. Sheet-piling. No. 1,042,581; Oct. 29; Gaz. vol. 183; p. 1113.
McFarlane, Robert N. F., *et al.* (See Lake, Franklin W., assignor.)
McFarlin, Esco, and A. Cline, Doniphan, Mo. Apparatus for sprouting grain. No. 1,038,407; Sept. 10; Gaz. vol 182; p. 447.
McFeely, Ronald F., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Gripper. No. 1,014,835; Jan. 16; Sp. p. 3895; Gaz. vol. 174; p. 661.
McFeely, Ronald F., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Pounding-up machine. No. 1,019,067; Mar. 5; Sp. p. 117; Gaz. vol. 176; p. 22.
McFeely, Ronald F., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Gripper. No. 1,019,904; Mar. 12; Sp. p. 1926; Gaz. vol. 176; p. 335.
McFeely, Ronald F., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J., and Boston, Mass. Pegging-machine. No. 1,028,240; June 4; Sp. p. 392; Gaz. vol. 179; p. 56.
McFeely, Ronald F., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J., and Boston, Mass. Pulling-over machine. No. 1,029,387; June 11; Sp. p. 2862; Gaz. vol. 179; p. 482.
McFeely, Ronald F., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for working an upper over a last. No. 1,030,264; June 18; Sp. p. 4771; Gaz. vol. 179; p. 821.
McFeely, Ronald F., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Tack-feeding mechanism. No. 1,030,315; June 25; Sp. p. 4919; Gaz. vol. 179; p. 878.
McFeely, Ronald F., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Pulling-over machine. No. 1,030,522; June 25; Sp. p. 5414; Gaz. vol. 179; p. 953.
McFeely, Ronald F., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Jack for shoe-machines. No. 1,030,827; June 25; Sp. p. 6368; Gaz. vol. 179; p. 1063.
McFeely, Ronald F., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Work-support. No. 1,042,460; Oct. 29; Gaz. vol. 183; p. 1070.
McFeely, Ronald F., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Shoe-forming machine. No. 1,042,582; Oct. 29; Gaz. vol. 183; p. 1113.
McFell, Judson, Chicago, Ill. Selective signaling means. No. 1,024,590; Apr. 30; Sp. p. 6145; Gaz. vol. 177; p. 1086.
McFell, Judson, Chicago, Ill. Selective signaling system. No. 1,030,197; June 18; Sp. p. 4627; Gaz. vol. 179; p. 796.
McFell, Judson, Chicago, Ill. Electrical signal-transmitter. No. 1,044,218; Nov. 12; Gaz. vol. 184; p. 440.
McFell, Judson, Chicago, Ill. Selective signaling system. No. 1,048,561; Dec. 31; Gaz. vol. 185; p. 1090.
McFerran, Robert B., *et al.* (See Ford, Frank W., assignor.)
McFetridge, Joseph, Vandergrift, assignor to American Sheet & Tin Plate Company, Pittsburgh, Pa. Reclaiming ammonium and zinc values from sal-ammoniac-flux skimmings. No. 1,044,557; Nov. 19; Gaz. vol. 184; p. 587.
McFetridge, Joseph, Vandergrift, assignor to American Sheet & Tin Plate Company, Pittsburgh, Pa. Treating waste ferrous sulfate liquors. No. 1,045,723; Nov. 26; Gaz. vol. 184; p. 1025.
McGahey, Richard, Walla Walla, Wash. Loaded-truck-counting apparatus. No. 1,013,797; Jan. 2; Sp. p. 1546; Gaz. vol. 174; p. 246.
McGall, William, and T. E. Morgan, Pittsburgh, Pa. Extension-table. No. 1,035,214; Aug. 13; Gaz. vol. 181; p. 302.
McGandy, George W., Marshall, Minn. Tile-setter. No. 1,040,721; Oct. 8; Gaz. vol. 183; p. 390.
McGarity, John. (See Lawless, John, assignor.)
McGarry, D. P. (See Wood, William H., assignor.)
McGarry, John A., Chicago, Ill. Lumber-truck. No. 1,041,319; Oct. 15; Gaz. vol. 183; p. 624.
McGarvey, Anna, Westover, Pa. Cabinet and dough-raiser. No. 1,019,815; Mar. 12; Sp. p. 1736; Gaz. vol. 176; p. 304.
McGary, Marcellus, Helmer, Idaho. Electrode. No. 1,035,215; Aug. 13; Gaz. vol. 181; p. 303.
McGary, Robert M., Mechanicsburg, Pa. Apparatus for adapting beds of the ordinary type for the use of invalids. No. 1,021,693; Mar. 26; Sp. p. 5678; Gaz. vol. 176; p. 1022.
McGaughey, Alonzo M., Russellville, Ind. Display-rack. No. 1,019,983; Mar. 12; Sp. p. 2086; Gaz. vol. 176; p. 359.
McGaughey, Charles. (See Trew and McGaughey.)
McGavic, Charles O., Denver, Colo. Building construction. No. 1,027,266; May 21; Sp. p. 4813; Gaz. vol. 178; p. 812.
McGavick, Alexander J., Chicago, Ill. Fence post and fence-fastening. No. 1,019,816; Mar. 12; Sp. p. 1737; Gaz. vol. 176; p. 304.
McGavick, Alexander J., Chicago, Ill. Fence post and fastening. No. 1,019,817; Mar. 12; Sp. p. 1738; Gaz. vol. 176; p. 304.
McGavin, James, Chicago, Ill. Mine-protection system. No. 1,021,370; Mar. 26; Sp. p. 5004; Gaz. vol. 176; p. 913.
McGavin, James, Springfield, Ill. Cord-adjuster for electric lamps. No. 1,026,690; May 21; Sp. p. 3519; Gaz. vol. 178; p. 613.
McGavock, William J., Mexico, Mexico. Nut-lock. No. 1,019,680; Mar. 5; Sp. p. 1471; Gaz. vol. 176; p. 227.
McGeary, Luman A., assignor to F. E. Walden, Worcester, Mass. Clothes-drier. No. 1,021,694; Mar. 26; Sp. p. 5680; Gaz. vol. 176; p. 1022.
McGee, James L., La Junta, Colo. Valve. No. 1,028,947; June 11; Sp. p. 1912; Gaz. vol. 179; p. 330.
McGee, James P. (See Albrecht and McGee.)
McGee, John, Quinlan, Tex. Mail-box-transmission system. No. 1,019,984; Mar. 12; Sp. p. 2088; Gaz. vol. 176; p. 360.
McGeorge, John, Cleveland, Ohio. Pump. No. 1,027,139; May 21; Sp. p. 4574; Gaz. vol. 178; p. 769.
McGettigan, Edward J., Cleveland, Ohio. Building-block. No. 1,023,748; Apr. 16; Sp. p. 4183; Gaz. vol. 177; p. 735.
McGettigan, Edward J., Cleveland, Ohio. Building-block. No. 1,023,785; Apr. 16; Sp. p. 4252; Gaz. vol. 177; p. 747.
McGhee, Nicholas B., Tempe, Ariz., assignor of one-half to A. A. Smith, Perkins, Okla. Lamp-shade. No. 1,035,624; Aug. 13; Gaz. vol. 181; p. 444.
McGibney, George E., *et al.* (See Dunn, Frederick W., assignor.)
McGiffert, John R., assignor to Clyde Iron Works, Duluth, Minn. Log-loading machine. No. 1,017,306; Feb. 13; Sp. p. 2389; Gaz. vol. 175; p. 407.
McGiffert, John R., assignor to Clyde Iron Works, Duluth, Minn. Brake mechanism. No. 1,026,274; May 14; Sp. p. 2605; Gaz. vol. 178; p. 437.
McGiffert, John R., assignor to Clyde Iron Works, Duluth, Minn. Fluid-operated clutch. No. 1,027,493; May 28; Sp. p. 5282; Gaz. vol. 178; p. 926.
McGill, Charles E., assignor of one-fourth to C. Huber, one-fourth to E. Howell, and one-fourth to C. F. Ruoff, Binghamton, N. Y. Shuttle. No. 1,014,661; Jan. 16; Sp. p. 3504; Gaz. vol. 174; p. 600.
McGill Manufacturing Company. (See Beisler, Herman E., assignor.)
McGillis, Archibald, Vancouver, British Columbia, Canada. Excavating-scoop for wire-rope hauls. No. 1,027,876; May 28; Sp. p. 6140; Gaz. vol. 178; p. 1054.

Alphabetical list of patentees—Continued.

McGilvrey, John W. A., Albia, Iowa. Wire-stretcher. No. 1,022,102; Apr. 2; Sp. p. 738; Gaz. vol. 177; p. 118.
McGinley, Thomas A., assignor to The Duff Manufacturing Company, Pittsburgh, Pa. Gearing. No. 1,047,674; Dec. 17; Gaz. vol. 185; p. 725.
McGinnis, James, Johnstown, Pa. Pneumatic tire. No. 1,021,616; Mar. 26; Sp. p. 5554; Gaz. vol. 176; p. 997.
McGinnis, William S., Mahoningtown, Pa. Car-coupling. No. 1,022,796; Apr. 9; Sp. p. 2238; Gaz. vol. 177; p. 383.
McGlaughlin, George G. (See Slaback and McGlaughlin.)
McGlaughlin, Joseph W., West Allis, Wis. Car-dumper. No. 1,032,619; July 16; Gaz. vol. 180; p. 694.
McGlocklin, Francis M., Grand Rapids, Mich. Railway-track support and fastener. No. 1,025,820; May 7; Sp. p. 1559; Gaz. vol. 178; p. 247.
McGoffin, Thomas E. (See Sleeper and McGoffin.)
McGoldrick, John, Baltimore, Md. Mechanism for preparing boats for launching. No. 1,022,432; Apr. 9; Sp. p. 1444; Gaz. vol. 177; p. 259.
McGonigle, Charles W., Algona, assignor of one-half to G. E. Miller, Port Orchard, Wash. Electromagnetic sounding apparatus. No. 1,023,215; Apr. 16; Sp. p. 3159; Gaz. vol. 177; p. 565.
McGonigle, Charles W., Algona, assignor to The Globe Telephone Company, Seattle, Wash. Sound-transmitting apparatus. No. 1,049,253; Dec. 31; Gaz. vol. 185; p. 1329.
McGowan, Joseph C., and R. W. Michler, assignors of one-third to M. P. Deutsch, Perris, Cal. Signal. No. 1,019,340; Mar. 5; Sp. p. 746; Gaz. vol. 176; p. 116.
McGowan, Patrick A., Newport, Ky. Device for applying grease to rolls. No. 1,021,062; Mar. 26; Sp. p. 4367; Gaz. vol. 176; p. 810.
McGowan, William N., Croatan, N. C. Surveying-instrument. No. 1,042,248; Oct. 22; Gaz. vol. 183; p. 969.
McGrath, John T., Battle Creek, Mich. Automatic machine for cutting off tubes. No. 1,020,433; Mar. 19; Sp. p. 3021; Gaz. vol. 176; p. 547.
McGrath, John T., Battle Creek, Mich. Flue-expander. No. 1,037,789; Sept. 3; Gaz. vol. 182; p. 204.
McGrath, Peter, Denver, Colo. Potato-digger. No. 1,024,269; Apr. 23; Sp. p. 5393; Gaz. vol. 177; p. 944.
McGrath, Thomas, Springfield, Mass. Crucible-cover. No. 1,029,815; June 18; Sp. p. 3801; Gaz. vol. 179; p. 667.
McGrath, Thomas A. (See Dennis, Benjamin A., assignor.)
McGraw, Edwin C., assignor to McGraw Tire & Rubber Company, East Palestine, Ohio. Vulcanizer. No. 1,039,308; Sept. 24; Gaz. vol. 182; p. 810.
McGraw, Edwin C., assignor to McGraw Tire & Rubber Company, East Palestine, Ohio. Vulcanizer. No. 1,039,309; Sept. 24; Gaz. vol. 182; p. 810.
McGraw Tire & Rubber Company. (See McGraw, Edwin C., assignor.)
McGraw, Walter E., Malden, assignor to C. H. Pearson, Brookline, Mass. Device for improving the tone of cathedral-gongs for clocks. No. 1,025,821; May 7; Sp. p. 1561; Gaz. vol. 178; p. 247.
McGreevey, John A., Delphi, Ind. Driven wrench. No. 1,028,123; June 4; Sp. p. 62; Gaz. vol. 179; p. 14.
McGregor, Alexander G., Salt Lake City, Utah. Fluid-pressure-controlling system for motor-vehicles. No. 1,044,898; Nov. 19; Gaz. vol. 184; p. 706.
McGregor, Allan L., Duluth, Minn. Automobile-buffer. No. 1,014,713; Jan. 16; Sp. p. 3608; Gaz. vol. 174; p. 618.
McGregor, Allan L., Chicago, Ill. Automobile-buffer. No. 1,032,690; July 16; Gaz. vol. 180; p. 721.
McGregor, Joseph G. (See Peterson and McGregor.)
McGregor, Raymond. (See Alander and McGregor.)
McGroarty, Edward. (See Macfarlane and McGroarty.)
McGugan, Archibald, and H. Spragg, Hamilton, Ontario, Canada. Clock. No. 1,039,165; Sept. 24; Gaz. vol. 182; p. 756.
McGuiness, Benjamin F., Worcester, Mass., assignor to Crompton & Knowles Loom Works. Loom-protecting mechanism. No. 1,029,937; June 18; Sp. p. 4085; Gaz. vol. 179; p. 709.
McGuire, Albert W., Carmel, Me. Envelop. No. 1,039,567; Sept. 24; Gaz. vol. 182; p. 900.
McGuire, James J., St. Louis, Mo. Two-cycle engine. No. 1,014,078; Jan. 9; Sp. p. 2212; Gaz. vol. 174; p. 370.
McGuire, John J., New York, N. Y. Wheel-hub. No. 1,024,270; Apr. 23; Sp. p. 5396; Gaz. vol. 177; p. 945.
McGuire, Michael G., Chicago, Ill. Sportsman's appliance. No. 1,020,044; Mar. 12; Sp. p. 2208; Gaz. vol. 176; p. 380.
McGuire, Peter J., Wilkinsburg, and H. J. Fronk, Monaca, assignors to United States Sanitary Manufacturing Company, Pittsburgh, Pa. Sink or basin stopper. No. 1,028,374; June 4; Sp. p. 682; Gaz. vol. 179; p. 103.
McGuire, Willard L. (See Shields and McGuire.)
McGuire, William. (See Kinney and McGuire.)
McGuire, William A., *et al.* (See Little, William A., assignor.)
McGuire, William A., Turtle Creek, Pa. Coffee-grinder. No. 1,034,813; Aug. 6; Gaz. vol. 181; p. 139.
McGuirl, John J., Monaca, Pa. Rail. No. 1,032,846; July 16; Gaz. vol. 180; p. 773.
McHarg, Arthur V. A., New York, N. Y. Switch and cut-out device. No. 1,036,293; Aug. 20; Gaz. vol. 181; p. 712.
McHarg, Arthur V. A., New York, N. Y. Switch. No. 1,036,294; Aug. 20; Gaz. vol. 181; p. 712.
McHarg, Arthur V. A., New York, N. Y. Fuse-switch. No. 1,048,847; Dec. 31; Gaz. vol. 185; p. 1191.
McHarg, John. (See Childs, Jesse, assignor.)
McHattie, Jean J., and A. D. Lyle, Kansas City, Mo. Dress-form. No. 1,021,108; Mar. 26; Sp. p. 4451; Gaz. vol. 176; p. 823.
McHench, Andrew, Fargo, N. D. Block-molding machine. No. 1,028,241; June 4; Sp. p. 401; Gaz. vol. 179; p. 56.
McHill, William R., Moran, Kans. Liquid-fuel burner. No. 1,045,995; Dec. 3; Gaz. vol. 185; p. 67.
McHill, William R., assignor of one-third to J. H. Cramer, Moran, Kans. Liquid-fuel burner. No. 1,025,636; May 7; Sp. p. 1190; Gaz. vol. 178; p. 183.
McHugh, Anthony L., Cincinnati, Ohio, assignor to Allis-Chalmers Company and The Bullock Electric Manufacturing Company. Coil-forming machine. No. 1,016,700; Feb. 6; Sp. p. 1059; Gaz. vol. 175; p. 162.
McHugh, William. (See Shutts and McHugh.)
McIlvaine, Joe F., Lebanon, Mo. Stovepipe-fastener. No. 1,016,426; Feb. 6; Sp. p. 415; Gaz. vol. 175; p. 66.
McIlvaine, Margaret, Irwin, Pa. Sieve. No. 1,030,673; June 25; Sp. p. 5895; Gaz. vol. 179; p. 1007.
McIlvanie, Samuel, Eburne, British Columbia, Canada. Pencil-sharpener. No. 1,018,249; Feb. 20; Sp. p. 4470; Gaz. vol. 175; p. 768.
McIlveene, Mineola, Leuders, Tex. Hair-waver. No. 1,041,651; Oct. 15; Gaz. vol. 183; p. 731.
McIlveene, Mineola, Lueders, and L. A. Hayes, Weatherford, Tex. Potato-digging machine. No. 1,019,681; Mar. 5; Sp. p. 1475; Gaz. vol. 176; p. 228.
McIlvoy, William A., Gettysburg, S. D. Land-roller. No. 1,040,722; Oct. 8; Gaz. vol. 183; p. 390.
McIntee, John B., and I. Bowman, Jeannette, Pa. Glass-pot. No. 1,032,923; July 16; Gaz. vol. 180; p. 797.
McIntire, Jacob N., assignor to The Brunswick-Balke-Collender Company of New York, New York, N. Y. Mortuary refrigerator. No. 1,021,722; Mar. 26; Sp. p. 5742; Gaz. vol. 176; p. 1031.
McIntire, Samuel B., Houston, Minn. Bob-sled brake. No. 1,043,022; Oct. 29; Gaz. vol. 183; p. 1266.
McIntosh, Charles C., Los Angeles, Cal. Fruit-sizer. No. 1,019,341; Mar. 5; Sp. p. 747; Gaz. vol. 176; p. 116.
McIntosh, McClellan, assignor of two-thirds to F. A. Ewer and J. T. Cloney, Allegan, Mich. Spring construction. No. 1,033,434; July 23; Gaz. vol. 180; p. 1008.
McIntosh, McClellan, assignor of one-fourth to J. T. Cloney and one-fourth to C. N. McDuffie, Allegan, Mich. Vehicle-wheel. No. 1,034,390; July 30; Gaz. vol. 180; p. 1362.
McIntosh, Thomas, Jenkintown, Pa. Window-blind. No. 1,013,417; Jan. 2; Sp. p. 726; Gaz. vol. 174; p. 114.
McIntosh, Virginia C., Sharpsburg, Pa. Combined mop stick and wringer. No. 1,030,109; June 18; Sp. p. 4446; Gaz. vol. 179; p. 768.
McIntosh, William A. (See Linscott and McIntosh.)
McIntyre, Frank, New York, assignor to C. J. Tagliabue, Brooklyn, N. Y. Casing for clinical thermometers. No. 1,041,135; Oct. 15; Gaz. vol. 183; p. 560.
McIntyre, John, Jersey City, N. J. Electromagnetic apparatus. No. 1,029,388; June 11; Sp. p. 2886; Gaz. vol. 179; p. 482.
McIntyre, John, Jersey City, N. J., assignor, by mesne assignments, to W. M. Griffith, Freeport, Long Island, N. Y. Treating milk. No. 1,026,756; May 21; Sp. p. 3660; Gaz. vol. 178; p. 636.
McIntyre, John, Jersey City, N. J., assignor, by mesne assignments, to W. M. Griffith, Freeport, Long Island, N. Y. Apparatus for drying milk. No. 1,026,757; May 21; Sp. p. 3664; Gaz. vol. 178; p. 636.
McIntyre, John J., Hartford, Conn. Internal-combustion engine. No. 1,022,492; Apr. 9; Sp. p. 1554; Gaz. vol. 177; p. 279.
McIntyre, John J., Hartford, Conn. Spark-plug. No. 1,041,835; Oct. 22; Gaz. vol. 183; p. 833.
McIntyre, John T., Jackson, Ala. Air-blower for forges. No. 1,030,418; June 25; Sp. p. 5141; Gaz. vol. 179; p. 916.
McIntyre, Loren W., Portland, Oreg. Tool for marking cement pavements. No. 1,041,320; Oct. 15; Gaz. vol. 183; p. 624.
McIntyre, Lowell N., Carthage, N. Y. Paper-stock refining and distributing system. No. 1,026,819; May 21; Sp. p. 3795; Gaz. vol. 178; p. 657.
McIntyre, Malcolm W., Cincinnati, Ohio, and R. P. Conner, Covington, Ky. Amusement device. No. 1,013,843; Jan. 2; Sp. p. 1656; Gaz. vol. 174; p. 263.
McIntyre, Michael M., assignor to The Perfection Spring Company, Cleveland, Ohio. Vehicle-spring. No. 1,014,406; Jan. 9; Sp. p. 2933; Gaz. vol. 174; p. 486.
McIntyre, Michael M., assignor to The Perfection Spring Company, Cleveland, Ohio. Vehicle-spring. No. 1,018,250; Feb. 20; Sp. p. 4471; Gaz. vol. 175; p. 768.
McIntyre, William J., Hartford, Conn. Caster. No. 1,029,705; June 18; Sp. p. 3567; Gaz. vol. 179; p. 630.

Alphabetical list of patentees—Continued.

McIsaac, John T., East Weymouth, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Welt-guide. No. 1,030,741; June 25; Sp. p. 6049; Gaz. vol. 179; p. 1031.
McJunkin, Paul. (See Graybill and McJunkin.)
McKaig, Eddy T., assignor to I. Larsen, Chicago, Ill. Lubricating device. No. 1,021,421; Mar. 26; Sp. p. 5151; Gaz. vol. 176; p. 932.
McKaig, Eddy T., assignor of one-half to A. E. Silk and H. Denninger, Chicago, Ill. Coin counting and packaging machine. No. 1,023,162; Apr. 16; Sp. p. 3048; Gaz. vol. 177; p. 547.
McKam, Lawrence G., assignor to Standard Saw and Manufacturing Co., Detroit, Mich. Saw-set. No. 1,025,950; May 7; Sp. p. 1881; Gaz. vol. 178; p. 288.
McKasty, Martin F., Jamaica, N. Y. Marker and rower. No. 1,049,121; Dec. 31; Gaz. vol. 185; p. 1286.
McKay, Donald, Collingwood, Ontario, Canada. Truss. No. 1,026,758; May 21; Sp. p. 3670; Gaz. vol. 178; p. 637.
McKay, Festus A., parish of St. Andrews, Jamaica. Apparatus for scrubbing and polishing floors. No. 1,021,695; Mar. 26; Sp. p. 5682; Gaz. vol. 176; p. 1023.
McKay, James D., St. John, New Brunswick, assignor of one-half to J. C. Purdy, St. John, Canada. Device for creating a draft through smoke-stacks. No. 1,013,887; Jan. 9; Sp. p. 1781; Gaz. vol. 174; p. 305.
McKay, Jesse M. and R. A., Olathe, Colo. Brick-hook. No. 1,014,079; Jan. 9; Sp. p. 2215; Gaz. vol. 174; p. 371.
McKay, Joseph, assignor to Hall, Hartwell & Co., Troy, N. Y. Manufacture of fold-collars. No. 1,045,724; Nov. 26; Gaz. vol. 184; p. 1026.
McKay, Robert A. (See McKay, Jesse M. and R. A.)
McKay, Thomas H., and J. F. Hughes, Guthrie, Okla. Rail-joint support. No. 1,017,576; Feb. 13; Sp. p. 2945; Gaz. vol. 175; p. 497.
McKay, William, assignor of one-twentieth to I. G. Burton, New York, N. Y. Puncture-proof tire. No. 1,048,423; Dec. 24; Gaz. vol. 185; p. 1004.
McKean, John O., Westfield, Mass. Headlight for vehicles. No. 1,013,300; Jan. 2; Sp. p. 475; Gaz. vol. 174; p. 74.
McKean, John O., Westfield, Mass. Tension mechanism for winding-machines. No. 1,027,140; May 21; Sp. p. 4578; Gaz. vol. 178; p. 769.
McKean, John O., assignor to Foster Machine Company, Westfield, Mass. Winding-machine. No. 1,014,836; Jan. 16; Sp. p. 3904; Gaz. vol. 174; p. 661.
McKean, John O., assignor to Foster Machine Company, Westfield, Mass. Winding-machine. No. 1,018,920; Feb. 27; Sp. p. 5959; Gaz. vol. 175; p. 1027.
McKean, John O., assignor to Foster Machine Company, Westfield, Mass. Tension device. No. 1,024,800; Apr. 30; Sp. p. 6599; Gaz. vol. 177; p. 1160.
McKechnie, Alexander, Birmingham, and F. G. Beasley, Smethwick, Birmingham, England. Treating nickel-copper mattes. No. 1,047,825; Dec. 17; Gaz. vol. 185; p. 777.
McKechnie, Alexander, Birmingham, and F. G. Beasley, Smethwick, Birmingham, England. Oxidizing ferrous to ferric solutions. No. 1,047,826; Dec. 17; Gaz. vol. 185; p. 777.
McKee, Albert K., assignor of one-third to E. V. Bray and one-third to T. Cox, Jr., Coalinga, Cal. Well-tubing lock. No. 1,028,759; June 4; Sp. p. 1491; Gaz. vol. 179; p. 231.
McKee, Charles, Monticello, Ill. Corn-sheller. No. 1,029,451; June 11; Sp. p. 3012; Gaz. vol. 179; p. 504.
McKee, Clarence W., Phoenix, Ariz. Irrigation system. No. 1,018,251; Feb. 20; Sp. p. 4473; Gaz. vol. 175; p. 768.
McKee, Clark W., San Diego, Cal. Gravity-actuated window-lock. No. 1,032,559; July 16; Gaz. vol. 180; p. 674.
McKee, Clarke W., San Diego, Cal. Patch for pneumatic tires. No. 1,016,349; Feb. 6; Sp. p. 257; Gaz. vol. 175; p. 40.
McKee, Ellery L., Talladega Springs, Ala. Brace for chairs, couches, and the like. No. 1,047,428; Dec. 17; Gaz. vol. 185; p. 636.
McKee, Fred A. (See McKee, Jasper N., assignor.)
McKee, Garnet W., assignor to Eclipse Fuel Engineering Company, Rockford, Ill. Gas mixer and regulator. No. 1,036,133; Aug. 20; Gaz. vol. 181; p. 656.
McKee, George F., and W. F. Schilling, Aspinwall, assignors to McKee-Schilling Permanent Mold Company, Pittsburgh, Pa. Casting apparatus. No. 1,019,905; Mar. 12; Sp. p. 1927; Gaz. vol. 176; p. 335.
McKee, George F., and W. F. Schilling, Aspinwall, assignors to McKee-Schilling Permanent Mold Company, Pittsburgh, Pa. Casting apparatus. No. 1,019,906; Mar. 12; Sp. p. 1930; Gaz. vol. 176; p. 335.
McKee, George F., and W. F. Schilling, Aspinwall, assignors to McKee-Schilling Permanent Mold Company, Pittsburgh, Pa. Casting apparatus. No. 1,030,198; June 18; Sp. p. 4638; Gaz. vol. 179; p. 797.
McKee, James H. (See Black and McKee.)
McKee, Jasper N., assignor to F. A. McKee, Indianapolis, Ind. Belt-stretcher. No. 1,031,357; July 2; Gaz. vol. 180; p. 178.
McKee, Milton A., Westerly, R. I., assignor to C. B. Cottrell & Sons Company, New York, N. Y. Electrotyping. No. 1,033,435; July 23; Gaz. vol. 180; p. 1008.
McKee, Milton A., Westerly, R. I., assignor to C. B. Cottrell and Sons Company, New York, N. Y. Electrotyping. No. 1,033,604; July 23; Gaz. vol. 180; p. 1065.
McKee, Milton A., Westerly, R. I., assignor to C. B. Cottrell & Sons Company, New York, N. Y. Hot bending-machine for the treatment of printing-plates. No. 1,043,334; Nov. 5; Gaz. vol. 184; p. 103.
McKee, Robert, Philadelphia, Pa. Explosive-engine. No. 1,026,403; May 14; Sp. p. 2904; Gaz. vol. 178; p. 481.
McKee-Schilling Permanent Mold Company. (See McKee and Schilling, assignors.)
McKee, Walter S., Glencoe, Ill., and P. M. Vilas, Minneapolis, Minn., assignors to Edgar Allen American Manganese Steel Company, Augusta, Me. Cast-metal dipper-body. No. 1,031,138; July 2; Gaz. vol. 180; p. 103.
McKee, Walter S., Glencoe, Ill., and P. M. Vilas, Minneapolis, Minn., assignors to Edgar Allen American Manganese Steel Company, Augusta, Me. Cast-metal dipper-front. No. 1,033,818; July 30; Gaz. vol. 180; p. 1160.
McKeel, Holden C., Newbern, N. C., and J. Griffin, Little River, S. C. Flue-cleaner. No. 1,026,525; May 14; Sp. p. 3158; Gaz. vol. 178; p. 521.
McKeen, John A. (See Porter, Louis N., assignor.)
McKeen Motor Car Company. (See McKeen, William R., Jr., assignor.)
McKeen, Thomas L., Easton, Pa. Car buffer and end sill. No. 1,016,701; Feb. 6; Sp. p. 1062; Gaz. vol. 175; p. 163.
McKeen, Thomas L., Easton, Pa. Car buffing device. No. 1,016,702; Feb. 6; Sp. p. 1064; Gaz. vol. 175; p. 163.
McKeen, Thomas L., Easton, Pa. Friction-buffer for railway-cars. No. 1,016,703; Feb. 6; Sp. p. 1067; Gaz. vol. 175; p. 164.
McKeen, Thomas L., Easton, Pa. Platform-buffer for railway passenger-cars. No. 1,029,938; June 18; Sp. p. 4088; Gaz. vol. 179; p. 709.
McKeen, Thomas L., Easton, Pa. Car-buffing device. No. 1,043,335; Nov. 5; Gaz. vol. 184; p. 104.
McKeen, William R., Jr., assignor to McKeen Motor Car Company, Omaha, Nebr. Engine. No. 1,017,008; Feb. 13; Sp. p. 1727; Gaz. vol. 175; p. 301.
McKeen, William R., Jr., assignor to McKeen Motor Car Company, Omaha, Nebr. Draft-sill construction for cars. No. 1,028,760; June 4; Sp. p. 1494; Gaz. vol. 179; p. 232.
McKeever, Charles, Jersey City, N. J. Bottle. No. 1,044,219; Nov. 12; Gaz. vol. 184; p. 441.
McKeever, Francis S., and H. C. Schuck, Pittsburgh, Pa. Folding shipping crate or box. No. 1,013,196; Jan. 2; Sp. p. 221; Gaz. vol. 174; p. 37.
McKellar, Cecil G., Christchurch, New Zealand. Rear-wheel fitting of cycle-frames. No. 1,024,216; Apr. 23; Sp. p. 5276; Gaz. vol. 177; p. 925.
McKellips, Alonzo N., Billings, Mont. Disk plow and beam therefor. No. 1,045,421; Nov. 26; Gaz. vol. 184; p. 916.
McKelvey, James K., Warnock, Ohio. Clutch. No. 1,017,577; Feb. 13; Sp. p. 2946; Gaz. vol. 175; p. 498.
McKelvey, James W., Lawrenceville, Ga. Automatic train-stop. No. 1,037,504; Sept. 3; Gaz. vol. 182; p. 112.
McKelvey, Katharine S., Pittsburgh, Pa. Curtain-stretcher. No. 1,024,905; Apr. 30; Sp. p. 6807; Gaz. vol. 177; p. 1197.
McKelvey, William W. (See Sherman, McKelvey, and Reilly.)
McKelvey, William W., assignor to The William B. Pollock Company, Youngstown, Ohio. Ladle-car. No. 1,021,543; Mar. 26; Sp. p. 5411; Gaz. vol. 176; p. 974.
McKelvy, Samuel A. (See French, McKelvy, and Scroggs.)
McKenna, John A., Crafton, Pa. Faucet. No. 1,020,434; Mar. 19; Sp. p. 3026; Gaz. vol. 176; p. 548.
McKenna, Matthew T., San Francisco, Cal. Pile-driving-follower attachment. No. 1,017,439; Feb. 13; Sp. p. 2673; Gaz. vol. 175; p. 452.
McKenzie, Angus, Jamestown, assignor, by mesne assignments, to Empire Voting Machine Company, Rochester, N. Y. Voting-machine. No. 1,031,139; July 2; Gaz. vol. 180; p. 103.
McKenzie, Dougal J., Chicago, Ill. Furnace. No. 1,019,508; Mar. 5; Sp. p. 1158; Gaz. vol. 176; p. 171.
McKenzie, John D., Laurel, Miss. Baling-press. No. 1,022,035; Apr. 2; Sp. p. 604; Gaz. vol. 177; p. 96.
McKenzie, Malcolm, Plainfield, N. J. Apparatus for extracting turpentine and other substances from wood. (Reissue.) No. 13,456; Aug. 6; Gaz. vol. 181; p. 245.
McKeone, Lawrence P., New York, N. Y. Aerocraft. No. 1,041,136; Oct. 15; Gaz. vol. 183; p. 561.
McKeown, William C., assignor to Buffalo Radiator Company, Buffalo, N. Y. Radiator-assembling machine. No. 1,020,150; Mar. 12; Sp. p. 2426; Gaz. vol. 176; p. 415.
McKerrow, Charles A., London, assignor to John H. Gillett & Sons, Chorley, England. Transfer-printing. No. 1,030,908; July 2; Gaz. vol. 180; p. 20.

Alphabetical list of patentees—Continued.

McKesson, Charles L., and B. F. Rice, Colorado Springs, Colo. Method and apparatus for sizing or volumetric grading of materials. No. 1,044,067; Nov. 12; Gaz. vol. 184; p. 390.
McKesson, Elmer I., Toledo, Ohio. Anesthetic-administering apparatus. No. 1,028,582; June 4; Sp. p. 1130; Gaz. vol. 179; p. 172.
McKesson, Elmer I., Toledo, Ohio. Rebreathing-bag for anesthetizing apparatus. No. 1,028,583; June 4; Sp. p. 1135; Gaz. vol. 179; p. 172.
McKibben, Robert E., Lock Haven, Pa. Shoe. No. 1,040,230; Oct. 1; Gaz. vol. 183; p. 186.
McKiel, James B., Marshall, Tex. Headlight for automobiles. No. 1,024,411; Apr. 23; Sp. p. 5675; Gaz. vol. 177; p. 989.
McKiel, James B., Marshall, Tex. Connector for lamps. No. 1,024,643; Apr. 30; Sp. p. 6271; Gaz. vol. 177; p. 1104.
McKiernan-Terry Drill Company. (See Terry, Coleman A., assignor.)
McKillip, George H. (See Purcell, George W., assignor.)
McKillop, Andrew, Downieville, Cal. Wheel. No. 1,049,254; Dec. 31; Gaz. vol. 185; p. 1330.
McKillop, Andrew, assignor of one-fourth to F. B. De Launey, Alleghany, Cal. Vehicle-wheel. No. 1,034,271; July 30; Gaz. vol. 180; p. 1321.
McKillop, Samuel W., Cleveland, Ohio. Tube-top. No. 1,039,985; Oct. 1; Gaz. vol. 183; p. 104.
McKim, James C., Charleroi, Pa. Machine for finishing bottle-necks. No. 1,036,295; Aug. 20; Gaz. vol. 181; p. 712.
McKim, Marie A., Cambridge, Mass. Garment-confining attachment for trunks. No. 1,041,836; Oct. 22; Gaz. vol. 183; p. 833.
McKinless, James R., Oakland, Cal., assignor, by mesne assignments, to International Conformer Company. Hat-comformator. No. 1,017,009; Feb. 13; Sp. p. 1731; Gaz. vol. 175; p. 302.
McKinley, John W., Washington, D. C. Adjustable window-shade hanger. No. 1,048,089; Dec. 24; Gaz. vol. 185; p. 893.
McKinley, Joseph S., Cincinnati, Ohio. Ink-distributing roll. No. 1,022,563; Apr. 9; Sp. p. 1709; Gaz. vol. 177; p. 301.
McKinney, Albert, and N. Richardson, Toronto, Ontario, Canada. Filing device. No. 1,043,952; Nov. 12; Gaz. vol. 184; p. 350.
McKinney, Minard H. (See Marshall and McKinney.)
McKinney, William M., Crows Landing, Cal. Vehicle-headlight. No. 1,032,924; July 16; Gaz. vol. 180; p. 797.
McKinney, William M., Crows Landing, Cal. Pencil-sharpener. No. 1,044,800; Nov. 19; Gaz. vol. 184; p. 673.
McKinnon, Alexander E., assignor to Acme Supply Company, Chicago, Ill. Deck-sash ratchet. No. 1,019,068; Mar. 5; Sp. p. 136; Gaz. vol. 176; p. 22.
McKinnon Chain Company. (See Ryan, Michael B., assignor.)
McKinnon Dash Company. (See Notman, Robert L., assignor.)
McKinnon, George E., Little Falls, N. J. Cushioned horseshoe. No. 1,042,943; Oct. 29; Gaz. vol. 183; p. 1237.
McKinzie, James F. and R. E., and J. B. Clark, La Salle, Ill. Electric motor. No. 1,020,566; Mar. 19; Sp. p. 3312; Gaz. vol. 176; p. 591.
McKinzie, Robert E. (See McKinzie and Clark.)
McKissick, William L., Carlisle, Iowa. Starting device for explosive-engines. No. 1,045,422; Nov. 26; Gaz. vol. 184; p. 917.
McKlveen, Frank G., and L. W. Naylor, Denver, Colo.; said Naylor assignor to said McKlveen. Starter for internal-combustion engines. No. 1,017,681; Feb. 20; Sp. p. 3154; Gaz. vol. 175; p. 569.
McKnight, Alexander, Brooklyn, N. Y. Extensible bed No. 1,037,283; Sept. 3; Gaz. vol. 182; p. 35.
McKnight, George M. (See Wheeler, Thomas J., assignor.)
McKnight, Richard, Denver, Colo. Clamp for use in the production of screen and window frames, doors, &c. No. 1,028,584; June 4; Sp. p. 1137; Gaz. vol. 179; p. 173.
McKnight, Richard, Denver, Colo., assignor to The Steel Tenon Manufacturing Company. Metallic dowel-plate for use in the production of screen-frames, &c. No. 1,028,761; June 4; Sp. p. 1496; Gaz. vol. 179; p. 232.
McKnight, Sanford C. (See Lend, John, assignor.)
McKnight, William A., Alexis, Ill. Septic tank. No. 1,046,097; Dec. 3; Gaz. vol. 185; p. 102.
McKnight, William N., and R. H. Youngman, assignors to Harbison-Walker Refractories Co., Pittsburgh, Pa. Brick for metallurgic furnaces. No. 1,016,350; Feb. 6; Sp. p. 258; Gaz. vol. 175; p. 40.
McLain, A. B., *et al.* (See Shropshire, Jesse C., assignor.)
McLain, Robert H., Schenectady, N. Y., assignor to General Electric Company. Motor control. No. 1,039,568; Sept. 24; Gaz. vol. 182; p. 900.
McLain, Robert H., Schenectady, N. Y., assignor to General Electric Company. Motor-control system. No. 1,041,137; Oct. 15; Gaz. vol. 183; p. 561.
McLain, William R., Philadelphia, Pa., assignor to The Macallen Company, Boston, Mass. Hickey. No. 1,017,985; Feb. 20; Sp. p. 3906; Gaz. vol. 175; p. 676.
McLanahan, Austin. (See Potts, Louis M., assignor.)
McLaren, Edward, New York, N. Y. Automatic gum-vending device. No. 1,031,140; July 2; Gaz. vol. 180; p. 103.
McLaren, Henry, Leeds, England. Plow operated by steam or other motive power. No. 1,018,252; Feb. 20; Sp. p. 4477; Gaz. vol. 175; p. 768.
McLarn, Ernest S., New York, N. Y., assignor to Western Electric Company, Chicago, Ill. Plunger-switch. No. 1,038,776; Sept. 17; Gaz. vol. 182; p. 610.
McLarn, Ernest S., East Orange, N. J., assignor to Western Electric Company, New York, N. Y. Telephone-switchboard. No. 1,039,773; Oct. 1; Gaz. vol. 183; p. 35.
McLarty, Leonard L., assignor of one-half to L. A. Hauser, Los Angeles, Cal. Engine-starter. No. 1,015,817; Jan. 30; Sp. p. 5993; Gaz. vol. 174; p. 1048.
McLaughlin, Daniel P., Chicago, Ill. Flying-machine or airship. No. 1,048,990; Dec. 31; Gaz. vol. 185; p. 1240.
McLaughlin, Frank. (See White and McLaughlin.)
McLaughlin, George A., *et al.* (See Christman, Matthias, assignor.)
McLaughlin, Harry W., Aspinwall, Pa. Cue. No. 1,014,502; Jan. 9; Sp. p. 3102; Gaz. vol. 174; p. 515.
McLaughlin, Horace S. (See McMillen, Robert, assignor.)
McLaughlin, James A., Odum, Ga. Friction-gearing. No. 1,036,134; Aug. 20; Gaz. vol. 181; p. 656.
McLaughlin, John C., Jersey City, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 1,021,158; Mar. 26; Sp. p. 4569; Gaz. vol. 176; p. 840.
McLaughlin, John C., Jersey City, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 1,022,373; Apr. 2; Sp. p. 1290; Gaz. vol. 177; p. 208.
McLaughlin, Patrick. (See Shigley, Cyrus C., assignor.)
McLaurin, R. L., *et al.* (See Shields, Alfred, assignor.)
McLean, Edward S., Marissa, Ill. Percolator. No. 1,029,939; June 18; Sp. p. 4090; Gaz. vol. 179; p. 710.
McLean, George S., Waterbury, Conn. Wire-straightener. No. 1,044,899; Nov. 19; Gaz. vol. 184; p. 707.
McLean, Gregory D., Newtown, Mo. Railway-tie. No. 1,040,371; Oct. 8; Gaz. vol. 183; p. 265.
McLean, James A., Amesbury, Mass. Panel-section joining and finishing frame. No. 1,045,996; Dec. 3; Gaz. vol. 185; p. 67.
McLean, James P., *et al.* (See Vargyas, Eugene von, assignor.)
McLean, Joseph W., Tucson, Ariz. Derailment-preventer. No. 1,028,585; June 4; Sp. p. 1141; Gaz. vol. 179; p. 173.
McLean, Lot, and T. R. Jurin, Orting, Wash. Saw-dresser. No. 1,045,052; Nov. 19; Gaz. vol. 184; p. 760.
McLean, Peter J., *et al.* (See Patten, William, assignor.)
McLean, William J., and J. L. McCauley, Bellingham, Wash. Oil-burner. No. 1,039,569; Sept. 24; Gaz. vol. 182; p. 900.
McLean, William J., and J. L. McCauley, Bellingham, Wash. Oil-burning steam-boiler. No. 1,039,570; Sept. 24; Gaz. vol. 182; p. 901.
McLearn, Herman C., Yarmouth, Me. Press. No. 1,026,876; May 21; Sp. p. 3929; Gaz. vol. 178; p. 678.
McLeer, Charles B. and J. F., Brooklyn, N. Y., assignors to Electric Carrier Company, Wilmington, Del. Signal system. No. 1,042,944; Oct. 29; Gaz. vol. 183; p. 1237.
McLeer, Joseph F. (See McLeer, Charles B. and J. F.)
McLellan, Harry R. (See Strickland, James L., assignor.)
McLellan, Robert B., Seattle, Wash. Oil-burner. No. 1,030,419; June 25; Sp. p. 5142; Gaz. vol. 179; p. 916.
McLendon, Andrew J., Edith, Tex. Gearing. No. 1,017,107; Feb. 13; Sp. p. 1961; Gaz. vol. 175; p. 337.
McLendon, Walter R., and R. I. Eustis, assignors of one-fourth to F. D. Eustis, Los Angeles, Cal. Shoring-tool. No. 1,022,036; Apr. 2; Sp. p. 607; Gaz. vol. 177; p. 96.
McLeod, Charles, Toronto, Ontario, Canada. Centrifugal separator. No. 1,035,888; Aug. 20; Gaz. vol. 181; p. 571.
McLeod, Harvey W., Quincy, Mass. Swimming appliance. No. 1,014,407; Jan. 9; Sp. p. 2934; Gaz. vol. 174; p. 486.
McLeod, Malcolm J., *et al.* (See Roper, William, assignor.)
McLeod, Nelson W., assignor to American Tire Company, St. Louis, Mo. Making pneumatic-tire casings. No. 1,029,307; June 11; Sp. p. 2676; Gaz. vol. 179; p. 454.
McLintock, John, Glasgow, Scotland. Lubricating axle-box. No. 1,023,668; Apr. 16; Sp. p. 4052; Gaz. vol. 177; p. 711.
McLoon, Nelson E., Glencoe, Mo. Limekiln. No. 1,014,015; Jan. 9; Sp. p. 2070; Gaz. vol. 174; p. 348.
McMahan, C. S. (See Yarbrough, John E., assignor.)
McMahan, Perry C., and E. L. King, Warren, Ohio. Extension-table. No. 1,030,853; June 25; Sp. p. 6445; Gaz. vol. 179; p. 1073.
McMahon, Oscar L., Columbia, Tenn. Bandage. No. 1,019,985; Mar. 12; Sp. p. 2090; Gaz. vol. 176; p. 360.
McMahon, Thomas W. (See Sheehan and McMahon.)

Alphabetical list of patentees—Continued.

McManama, John W., Waltham, assignor of one-third to S. W. Simonds, Somerville, and one-third to F. A. Barbey, Cambridge, Mass. Railway-track curve. No. 1,039,430; Sept. 24; Gaz. vol. 182; p. 850.
McManaman, James H., Correctionville, and E. Greiner, Sioux City, Iowa. Car-bolt appliance. No. 1,030,476; June 25; Sp. p. 5279; Gaz. vol. 179; p. 936.
McManigal, Frank S., Thermopolis, Wyo. Horse-controlling device. No. 1,045,308; Nov. 26; Gaz. vol. 184; p. 877.
McManis, John V., and W. L. Sherwood, Kirksville, Mo.; said Sherwood assignor to said McManis. Osteopathic table. No. 1,038,619; Sept. 17; Gaz. vol. 182; p. 555.
McMann, George M., Detroit, Mich. Dental syringe. No. 1,033,819; July 30; Gaz. vol. 180; p. 1161.
McManus, Charles E., New York, N. Y. Bottle-closure. No. 1,043,857; Nov. 12; Gaz. vol. 184; p. 315.
McManus, James, Pigeon Lake, Manitoba, Canada. Shock-loader. No. 1,033,820; July 30; Gaz. vol. 180; p. 1161.
McManus, John, Jet, Okla. Railway-track. No. 1,035,027; Aug. 6; Gaz. vol. 181; p. 208.
McManus, John A., Jr., Lynn, Mass. Casting-machine. No. 1,015,818; Jan. 30; Sp. p. 5995; Gaz. vol. 174; p. 1048.
McManus, John A., Jr., Lynn, Mass. Casting-machine. No. 1,015,819; Jan. 30; Sp. p. 6000; Gaz. vol. 174; p. 1049.
McManus, William H., assignor of one-half to W. J. Moran, Chicago, Ill. Waiter-calling device. No. 1,035,889; Aug. 20; Gaz. vol. 181; p. 571.
McMartin, Malcolm J., assignor to Duluth Corrugating & Roofing Company, Duluth, Minn. Metal building construction. No. 1,047,263; Dec. 17; Gaz. vol. 185; p. 578.
McMeen & Miller. (See Deakin, Gerald, assignor.)
McMeen & Miller. (See McMeen, Samuel G., assignor.)
McMeen, Samuel G., San Francisco, Cal., assignor to McMeen & Miller, Chicago, Ill. Telephone-receiver. No. 1,027,494; May 28; Sp. p. 5285; Gaz. vol. 178; p. 926.
McMichael, Ellem, *et al.* (See Kesselman, Edward H., assignor.)
McMichael, James G., Chicago, Ill. Rail-joint. No. 1,024,736; Apr. 30; Sp. p. 6453; Gaz. vol. 177; p. 1138.
McMichael, James G., Chicago, Ill. Rail-joint. No. 1,042,021; Oct. 22; Gaz. vol. 183; p. 896.
McMichael, Jessie, *et al.* (See Kesselman, Edward H., assignor.)
McMillan, Gilbert N., Shelburne, N. H. Perforated note-sheet for musical instruments. No. 1,042,706; Oct. 29; Gaz. vol. 183; p. 1157.
McMillan, Hugh P., Baltimore, Md. Wall-bracket. No. 1,048,192; Dec. 24; Gaz. vol. 185; p. 927.
McMillan, Hugh P., assignor to Wm. A. Tottle & Co., Baltimore, Md. Machine for cementing brush-bristles. No. 1,037,830; Sept. 3; Gaz. vol. 182; p. 217.
McMillan, John W., El Dorado, Ark. Cotton chopper and cultivator. No. 1,025,761; May 7; Sp. p. 1439; Gaz. vol. 178; p. 226.
McMillan, Malcolm. (See Kenny and McMillan.)
McMillan, Peter, Monango, N. D. Wire-stretcher. No. 1,035,028; Aug. 6; Gaz. vol. 181; p. 208.
McMillan, Robert W., *et al.* (See Williams, Andrew J. and C. E., assignors.)
McMillan, William P., Tampa, Fla. Irrigating apparatus. No. 1,017,578; Feb. 13; Sp. p. 2947; Gaz. vol. 175; p. 498.
McMillen, Albert K. (See Shackleford, Gordon, and McMillen.)
McMillen, Andrew, Russellton, Pa. Feed-bag. No. 1,022,862; Apr. 9; Sp. p. 2368; Gaz. vol. 177; p. 405.
McMillen, John J., Corning, N. Y. Lawn-mower attachment. No. 1,028,051; May 28; Sp. p. 6497; Gaz. vol. 178; p. 1111.
McMillen, Robert, assignor of one-third to H. S. McLaughlin, Pittsburgh, Pa. Trolley. No. 1,019,509; Mar. 5; Sp. p. 1160; Gaz. vol. 176; p. 171.
McMillen, Russell H., Wheeling, W. Va. Still. No. 1,019,069; Mar. 5; Sp. p. 137; Gaz. vol. 176; p. 23.
McMinn, Leslie, Knoxville, Tenn. Telephone-bell. No. 1,045,725; Nov. 26; Gaz. vol. 184; p. 1026.
McMordie, William E., Hamilton, Tex. Surgical instrument. No. 1,046,098; Dec. 3; Gaz. vol. 185; p. 103.
McMorris, William L., *et al.* (See Hargis, Harry W., assignor.)
McMorrow, Peter J., St. Louis, Mo. Oven. No. 1,028,242; June 4; Sp. p. 403; Gaz. vol. 179; p. 57.
McMullan, David S., Cleveland, assignor of one-half to R. J. Coleman, Akron, Ohio. Shoe-retainer. No. 1,028,586; June 4; Sp. p. 1142; Gaz. vol. 179; p. 173.
McMullen, Alexander J., Milwaukee, Wis. Automatic stoker for locomotives. No. 1,017,682; Feb. 20; Sp. p. 3156; Gaz. vol. 175; p. 569.
McMullen, Charles F., Fort Lupton, Colo. Grasshopper-destroyer. No. 1,014,890; Jan. 16; Sp. p. 4020; Gaz. vol. 174; p. 679.
McMullen, Etta, Oskaloosa, Iowa. Waist-form and skirt-frame. No. 1,037,650; Sept. 3; Gaz. vol. 182; p. 159.
McMullen, George B. (See McMullen, George W. and G. B.)
McMullen, George B., Chicago, Ill., assignor, by mesne assignments, to Z. G. Simmons, Kenosha, Wis., A. W. Preston, Swampscott, and B. W. Palmer, Boston, Mass., trustees. Sugar-producing product. No. 1,040,557; Oct. 8; Gaz. vol. 183; p. 330.
McMullen, George B., Chicago, Ill., assignor, by mesne assignments, to Z. G. Simmons, Kenosha, Wis., A. W. Preston, Swampscott, and B. W. Palmer, Boston, Mass., trustees. Sugar-producing product. No. 1,040,558; Oct. 8; Gaz. vol. 183; p. 330.
McMullen, George B., Chicago, Ill., assignor, by mesne assignments, to Z. G. Simmons, Kenosha, Wis., A. W. Preston, Swampscott, and B. W. Palmer, Boston, Mass., trustees. Separating sugar-cane into its two chief structural parts. No. 1,040,559; Oct. 8; Gaz. vol. 183; p. 330.
McMullen, George W., Chicago, Ill. Drying and apparatus therefor. No. 1,040,556; Oct. 8; Gaz. vol. 183; p. 330.
McMullen, George W., Picton, Ontario, Canada, assignor, by mesne assignments, to Z. G. Simmons, Kenosha, Wis., A. W. Preston, Swampscott, and B. W. Palmer, Boston, Mass., trustees. Sugar-making product. No. 1,040,561; Oct. 8; Gaz. vol. 183; p. 331.
McMullen, George W. and G. B., Picton, Ontario, Canada, assignors, by mesne assignments, to Z. G. Simmons, Kenosha, Wis., A. W. Preston, Swampscott, and B. W. Palmer, Boston, Mass., trustees. Making sugar and by-products from sugar-cane. No. 1,040,560; Oct. 8; Gaz. vol. 183; p. 331.
McMullen, Robert, Fremantle, Western Australia, Australia. Automatic-balancing aeroplane. No. 1,037,651; Sept. 3; Gaz. vol. 182; p. 159.
McMurdie, Francis J., assignor to American Blower Company, Detroit, Mich. Ventilating apparatus. No. 1,019,818; Mar. 12; Sp. p. 1739; Gaz. vol. 176; p. 304.
McMurray, Louis S. (See Dymond, John, assignor.)
McMurray, Max, Cleveland, Ohio. Blast-furnace. No. 1,024,801; Apr. 30; Sp. p. 6601; Gaz. vol. 177; p. 1160.
McMurtrie, Adnah, New York, N. Y. Connector for electrical conduits. No. 1,036,296; Aug. 20; Gaz. vol. 181; p. 713.
McMurtry, Alden L., Sound Beach Conn. Bubble-hat. No. 1,021,323; Mar. 26; Sp. p. 4910; Gaz. vol. 176; p. 897.
McMurtry, Alden L., Sound Beach, Conn. Electrical apparatus for stage effects. No. 1,021,787; Apr. 2; Sp. p. 66; Gaz. vol. 177; p. 14.
McMurtry, Alden L., Sound Beach, Conn. Garment for stage effects. No. 1,022,433; Apr. 9; Sp. p. 1447; Gaz. vol. 177; p. 259.
McMurtry, George G., New York, N. Y. Apparatus for rolling shapes. No. 1,021,468; Mar. 26; Sp. p. 5264; Gaz. vol. 176; p. 949.
McMurtry, George G., New York, N. Y., assignor to United States Steel Corporation, Hoboken, N. J. Railway cross-tie. No. 1,031,358; July 2; Gaz. vol. 180; p. 179.
McMurtry, Willie H., Elizabethtown, Ky. Filter. No. 1,035,890; Aug. 20; Gaz. vol. 181; p. 572.
McMurtry, Willie H., Elizabethtown, Ky. Filter. No. 1,047,101; Dec. 10; Gaz. vol. 185; p. 489.
McMyler Interstate Company, The. (See Lovell, Frederick W., assignor.)
McMyler, John, assignor to The McMyler Manufacturing Company, Cleveland, Ohio. Loading apparatus. No. 1,046,624; Dec. 10; Gaz. vol. 185; p. 326.
McMyler Manufacturing Company, The. (See Lovell, Frederick W., assignor.)
McMyler Manufacturing Company, The. (See McMyler, John, assignor.)
McNab, Alexander, assignor to The McNab Company, Bridgeport, Conn. Indicating device. No. 1,024,452; Apr. 23; Sp. p. 5761; Gaz. vol. 177; p. 1002.
McNab Company, The. (See McNab, Alexander, assignor.)
McNabb, Sherman, Prague, Okla. Windmill. No. 1,018,203; Feb. 20; Sp. p. 4377; Gaz. vol. 175; p. 751.
McNair, Luther, Brooklyn, N. Y. Sanitary attachment for drinking-glasses. No. 1,034,636; Aug. 6; Gaz. vol. 181; p. 77.
McNair, Robert H. and W. A., Peoria, Ill. Clothes-line reel. No. 1,017,010; Feb. 13; Sp. p. 1732; Gaz. vol. 175; p. 302.
McNair, William A. (See McNair, Robert H. and W. A.)
McNally, John J., Norfolk, Va., assignor to McNally Pneumatic Gin Corporation. Pneumatic cotton-gin. No. 1,033,718; July 23; Gaz. vol. 180; p. 1100.
McNally, John J., Norfolk, Va., assignor to McNally Pneumatic Gin Corporation. Seed-cotton separator. No. 1,033,719; July 23; Gaz. vol. 180; p. 1101.
McNally Pneumatic Gin Corporation. (See McNally, John J., assignor.)
McNamara, James, Montreal, Quebec, Canada, assignor to Mergenthaler Linotype Company. Slug for line-casting machines. No. 1,045,162; Nov. 26; Gaz. vol. 184; p. 826.
McNamara, James J., Baltimore, Md. Garbage-can. No. 1,013,504; Jan. 2; Sp. p. 904; Gaz. vol. 174; p. 144.
McNamara, John F., *et al.* (See Griggs and Henderson, assignors.)
McNamara, Martin F., Mill Valley, Cal. Collar. No. 1,047,130; Dec. 10; Gaz. vol. 185; p. 501.

Alphabetical list of patentees—Continued.

McNamara, Michael H., Chicago, Ill. Sliding-door track and cap. No. 1,023,950; Apr. 23; Sp. p. 4684; Gaz. vol. 177; p. 831.
McNamara, Thomas J. (See Baker and McCarty, assignors.)
McNamara, Thomas J. (See McCarty, Eugene J., assignor.)
McNamee, James, Amsterdam, N. Y. Starting device. No. 1,021,939; Apr. 2; Sp. p. 385; Gaz. vol. 177; p. 64.
McNatt, Daniel W., Goldthwaite, Tex. Equalizer. No. 1,031,019; July 2; Gaz. vol. 180; p. 60.
McNaught, Myrtle H. (See Warren, Elmer P., assignor.)
McNaughton, George D. (See Mugler and McNaughton.)
McNaull, William D., Toledo, Ohio. Means for attaching water-tubes to water-tube boiler and other drums. No. 1,021,204; Mar. 26; Sp. p. 4661; Gaz. vol. 176; p. 855.
McNee, George G., Clay Center, Kans., assignor of one-half to J. T. Fitch, Helper, Utah. Pump. No. 1,032,847; July 16; Gaz. vol. 180; p. 773.
McNeil, Alfred H., Chingford, assignor to The Associated Fire Alarms Limited, London, England. Automatic fire-alarm system. No. 1,047,264; Dec. 17; Gaz. vol. 185; p. 579.
McNeil, Charles A. (See McNeil, George S., assignor.)
McNeil, Daniel W., assignor to The John Douglas Company, Cincinnati, Ohio. Flush mechanism for closets. No. 1,047,265; Dec. 17; Gaz. vol. 185; p. 579.
McNeil, George S., assignor to C. A. McNeil, New York, N. Y. Fly-removing device. No. 1,046,831; Dec. 10; Gaz. vol. 185; p. 399.
McNeil, Howard H., New Freedom, Pa. Trolley-guard. No. 1,028,052; May 28; Sp. p. 6498; Gaz. vol. 178; p. 1111.
McNeil, Myron S., Hazlehurst, and G. Steingruber, Martinsville, Miss.; said McNeil assignor to said Steingruber. Rail-joint. No. 1,044,406; Nov. 12; Gaz. vol. 184; p. 505.
McNew, William F. (See Heedwell and McNew.)
McNitt, Robert J., Niagara Falls, assignor to Roessler & Hasslacher Chemical Company, New York, N. Y. Electrolytic process. No. 1,027,495; May 28; Sp. p. 5287; Gaz. vol. 178; p. 927.
McNitt, Robert J., Niagara Falls, assignor to The Chlorine Products Company, New York, N. Y. Producing chlorids of tin. No. 1,030,110; June 18; Sp. p. 4447; Gaz. vol. 179; p. 768.
McNulta, Herbert, Chicago, Ill. Passenger-car for railways. No. 1,035,216; Aug. 13; Gaz. vol. 181; p. 303.
McNulty, Harry B., East Cleveland, assignor, by mesne assignments, to The United States Phonograph Company, Cleveland, Ohio. Phonograph. No. 1,020,151; Mar. 12; Sp. p. 2430; Gaz. vol. 176; p. 415.
McNulty, Harry B., East Cleveland, assignor, by mesne assignments, to The United States Phonograph Company, Cleveland, Ohio. Phonograph. No. 1,038,621; Sept. 17; Gaz. vol. 182; p. 556.
McNulty, Richard J., Boston, Mass. Manhole and catch-basin cover. No. 1,016,081; Jan. 30; Sp. p. 6581; Gaz. vol. 174; p. 1142.
McPhayden, John A., and C. T. De Veaux, Chattanooga, Tenn. Making radiators and analogous tubular structures. No. 1,014,603; Jan. 9; Sp. p. 3303; Gaz. vol. 174; p. 549.
McPheron, Leslie D., Uniopolis, Ohio. Pump-rod coupling. No. 1,020,301; Mar. 12; Sp. p. 2746; Gaz. vol. 176; p. 465.
McPherson, Donald H., Le Roy, assignor to Superior Register Company, Canisteo, N. Y. Slip-holder. No. 1,039,571; Sept. 24; Gaz. vol. 182; p. 901.
McPherson, Herbert R., *et al.* (See Ivor, Barry, assignor.)
McPherson, James E., Canton, and E. E. Orr, Weymouth, Mass., assignors to United Shoe Machinery Company, Paterson, N. J. Welt-guide for sewing water-tight inseams. No. 1,017,059; Feb. 13; Sp. p. 1843; Gaz. vol. 175; p. 320.
McPherson, James L., Camden, N. J. Attachment for beds. No. 1,046,479; Dec. 10; Gaz. vol. 185; p. 275.
McPherson, Lewis M., and M. J. F. Grundy, Chicago, Ill. Antichafing and menstrual garment. No. 1,031,861; July 9; Gaz. vol. 180; p. 394.
McPike, John H. (See Wells and Harlow, assignors.)
McPike, William B., Bowling Green, Mo. Spring-wheel. No. 1,013,946; Jan. 9; Sp. p. 1916; Gaz. vol. 174; p. 326.
McProud, David W., assignor of one-half to T. J. Sumwalt, Farmland, Ind. Post. No. 1,033,916; July 30; Gaz. vol. 180; p. 1195.
McQuade, Augustus K., Pittsburgh, Pa. Trolley-pole construction. No. 1,035,986; Aug. 20; Gaz. vol. 181; p. 603.
McQuade, George, and N. S. Airhart, Trenton, Mo. Lubricator for locomotive-driver flanges. No. 1,013,197; Jan. 2; Sp. p. 222; Gaz. vol. 174; p. 37.
McQuaid, William W., Petroleum, assignor of one-half to F. B. Haymaker, Clarksburg, W. Va. Rail-joint. No. 1,041,502; Oct. 15; Gaz. vol. 183; p. 683.
McQuary, Oscar H., Jr., Lawrence, Kans. Face-protector. No. 1,035,217; Aug. 13; Gaz. vol. 181; p. 303.
McQueary, Charles A., and L. A. Passauer, Elk City, Kans. Combined shoe scraper and brush. No. 1,048,991; Dec. 31; Gaz. vol. 185; p. 1240.
McQueen, Archibald B., Dunnellon, Fla. Spring-tire for vehicle-wheels. No. 1,015,451; Jan. 23; Sp. p. 5212; Gaz. vol. 174; p. 896.
McQueen, Neill, Ludowici, Ga. Spring-cushion tire. No. 1,034,720; Aug. 6; Gaz. vol. 181; p. 106.
McQueen, Neill, Ludowici, Ga. Rim structure. No. 1,034,814; Aug. 6; Gaz. vol. 181; p. 140.
McQueen, Neill, Ludowici, Ga. Cushion-tire for wheels. No. 1,035,128; Aug. 6; Gaz. vol. 181; p. 241.
McQuillan, Joseph W., Springfield, assignor to Massachusetts Saw Works, Chicopee, Mass. Hacksaw-frame. No. 1,023,216; Apr. 16; Sp. p. 3161; Gaz. vol. 177; p. 566.
McQuillan, Mary A., Greeley, Kans. Book-remover. No. 1,025,415; May 7; Sp. p. 677; Gaz. vol. 178; p. 107.
McQuiston, William G., Oil City, assignor of one-half to H. T. Rose, Jr., Rouseville, Pa. Animal-trap. No. 1,020,950; Mar. 19; Sp. p. 4127; Gaz. vol. 176; p. 720.
McRae-Blom Company. (See McRae and Blom, assignors.)
McRae, Samuel, and J. H. Blom, assignors to McRae-Blom Company, Everett, Wash. Hose-patch. No. 1,017,265; Feb. 13; Sp. p. 2304; Gaz. vol. 175; p. 392.
McReynolds, John E., Seattle, Wash. Amusement apparatus. No. 1,030,316; June 25; Sp. p. 4921; Gaz. vol. 179; p. 878.
McSheehy, Bartholomew E. (See Africa and McSheehy.)
McSorley, William J., assignor of one-half to J. W. Scott, Eau Claire, Wis. Molding and grooving head. No. 1,034,272; July 30; Gaz. vol. 180; p. 1321.
McStay, William F., assignor of twenty-four and one-half one-hundredths to C. A. Murray, Moncton, New Brunswick, and twenty-four and one-half one-hundredths to E. S. Reade, Ottawa, Ontario, Canada. Ladder. No. 1,044,407; Nov. 12; Gaz. vol. 184; p. 506.
McSweeney, Peter E. (See Risser and McSweeney.)
McTaggart, Garnett G., Reno, Nev. Weeder. No. 1,022,103; Apr. 2; Sp. p. 739; Gaz. vol. 177; p. 118.
McTernan, John. (See Hudson, George H., assignor.)
McTurk, Morton H., Philadelphia, Pa. Coal-separator. No. 1,014,080; Jan. 9; Sp. p. 2216; Gaz. vol. 174; p. 371.
McWane, James R., Birmingham, Ala. Pipe-foundry plant. No. 1,035,374; Aug. 13; Gaz. vol. 181; p. 360.
McWane, James R., Birmingham, Ala. Multiple-core-bar-turning device. No. 1,035,375; Aug. 13; Gaz. vol. 181; p. 361.
McWane, James R., Birmingham, Ala. Core-bar pusher. No. 1,035,376; Aug. 13; Gaz. vol. 181; p. 361.
McWhirter, John H., Grand Valley, Okla. Tanning compound. No. 1,047,968; Dec. 24; Gaz. vol. 185; p. 852.
McWhirter, John S., New York, N. Y., assignor to General Electric Company. Pressure-controlling mechanism. No. 1,016,025; Jan. 30; Sp. p. 6442; Gaz. vol. 174; p. 1122.
McWhorter, Alfred D. (See Tutwiler and McWhorter.)
McWilliams, James M., assignor of one-half to J. A. Cain, Leesville, La. Pump. No. 1,040,231; Oct. 1; Gaz. vol. 183; p. 186.
McWilliams, John, East McKeesport, and M. E. Cleeland, West Homestead, Pa. Mechanism actuated by a hot bearing. No. 1,018,253; Feb. 20; Sp. p. 4481; Gaz. vol. 175; p. 769.
McWilliams, Joseph E., Hitchcock, Okla. Wheel. No. 1,035,625; Aug. 13; Gaz. vol. 181; p. 444.
Mead, Bert H., Hartford, Conn., assignor to R. W. Gallagher, New York, N. Y. Recording mechanism for meters. No. 1,043,336; Nov. 5; Gaz. vol. 184; p. 104.
Mead, Cyrus E., assignor to The Mead Engine Company, Dayton, Ohio. Explosive-engine. (Reissue.) No. 13,368; Feb. 13; Sp. p. 3076; Gaz. vol. 175; p. 518.
Mead, Edward L., St. Louis, Mo. Clutch. No. 1,044,220; Nov. 12; Gaz. vol. 184; p. 441.
Mead Engine Company, The. (See Mead, Cyrus E., assignor.) (Reissue.)
Mead, Enoch P., Salt Lake City, Utah. Sole and heel plate. No. 1,030,003; June 18; Sp. p. 4214; Gaz. vol. 179; p. 730.
Mead, George A. (See Denneen and Mead.)
Mead, George A., assignor to The Ohio Brass Company, Mansfield, Ohio. Insulator. No. 1,048,992; Dec. 31; Gaz. vol. 185; p. 1240.
Mead, Jacob J., New York, N. Y. Fountain-pen. No. 1,032,848; July 16; Gaz. vol. 180; p. 773.
Mead, Marion F., Geddes, S. D. Fence-repairing implement. No. 1,021,324; Mar. 26; Sp. p. 4911; Gaz. vol. 176; p. 898.
Mead Morrison Mfg. Co. (See Hammond and Donahue, assignors.)
Mead, William E., Marshall, Tex. Air-brake. No. 1,017,011; Feb. 13; Sp. p. 1734; Gaz. vol. 175; p. 302.
Meade, Henry B., assignor of one-half to W. F. Shedd, Los Angeles, Cal. Cyanid-cylinder. No. 1,038,173; Sept. 10; Gaz. vol. 182; p. 366.
Meade, James, Stoughton, Mass. Apparatus for conditioning adhesive coated fabric. No. 1,035,218; Aug. 13; Gaz. vol. 181; p. 303.

Meadowcroft, Charles W., Sr., Philadelphia, Pa. Riveting-machine. No. 1,034,480; Aug. 6; Gaz. vol. 181; p. 26.
Meadowcroft, Edward E., Hobart, Tasmania, Australia. Style-bar for phonographs. No. 1,013,198; Jan. 2; Sp. p. 223; Gaz. vol. 174; p. 38.
Meadows, William C., Poors Knob, N. C. Power plant. No. 1,047,675; Dec. 17; Gaz. vol. 185; p. 726.
Meahl, Philip J., Bayonne, N. J. Adjustable tracker. No. 1,013,301; Jan. 2; Sp. p. 478; Gaz. vol. 174; p. 75.
Meahl, Philip J., Bayonne, N. J., assignor to The Aeolian Company, New York, N. Y. Combined player-piano and phonograph. No. 1,025,200; May 7; Sp. p. 200; Gaz. vol. 178; p. 34.
Meaker, John W., Detroit, Mich. Explosive-engine. No. 1,015,502; Jan. 23; Sp. p. 5328; Gaz. vol. 174; p. 913.
Meaker, John W., Detroit, Mich. Explosive-engine. No. 1,023,088; Apr. 9; Sp. p. 2840; Gaz. vol. 177; p. 483.
Meany, James, Philadelphia, Pa. Railway-switch. No. 1,048,562; Dec. 31; Gaz. vol. 185; p. 1091.
Meany, James, Philadelphia, Pa. Switch-throwing mechanism. No. 1,048,563; Dec. 31; Gaz. vol. 185; p. 1091.
Mearkle, Louis K., Philadelphia, Pa. Vending-machine. No. 1,038,622; Sept. 17; Gaz. vol. 182; p. 556.
Mears, Charles W., Cleveland, Ohio. Book. No. 1,042,707; Oct. 29; Gaz. vol. 183; p. 1157.
Mears Ear Phone Company, The. (See Schneider, Eugene W., assignor.)
Meason, Henry M., *et al.* (See Crawford, Thomas, assignor.)
Meath, Michael F., Sadorus, Ill. Vehicle-hound. No. 1,022,037; Apr. 2; Sp. p. 608; Gaz. vol. 177; p. 96.
Mecera, Josef, Washington, D. C. Keyed zither. No. 1,040,232; Oct. 1; Gaz. vol. 183; p. 187.
Mechanical Process Manufacturing Company. (See Corl, Robert M., assignor.)
Mechin, Gus V. R. (See Tabler, Frank C., assignor.)
Mechling, Charles A., D. L. Thomas, and J. H. Kuhns, Tulsa, Okla.; said Kuhns assignor to said Mechling. Rope-clamp. No. 1,035,891; Aug. 20; Gaz. vol. 181; p 572.
Meck, Virgil A. (See Echternach, Harry S., assignor.)
Meckbach, Georg, Schöneberg, near Berlin, Germany. Binocular telescope. No. 1,037,505; Sept. 3; Gaz. vol. 182; p. 112.
Meckfessel, Emil C., and A. J. Weil, St. Louis, Mo. Hat-pin guard and point protector. No. 1,034,921; Aug. 6; Gaz. vol. 181; p. 174.
Mecklem, Clive, assignor to Brentano's, New York, N. Y. Score-card. No. 1,019,070; Mar. 5; Sp. p. 139; Gaz. vol. 176; p. 23.
Mecklem, Samuel G., and G. C. Brinkman, Spokane, Wash. Grate. No. 1,046,625; Dec. 10; Gaz. vol. 185; p. 327.
Medart, Philip S., assignor to Fred Medart Manufacturing Company, St. Louis, Mo. Striking-bag drum. No. 1,046,397; Dec. 3; Gaz. vol. 185; p. 209.
Medeiros, Manuel G., Irvington, Cal. Rail-fastener. No. 1,014,891; Jan. 16; Sp. p. 4022; Gaz. vol. 174; p. 680.
Medlin, William A., Ripley, Miss. Wire-stretcher. No. 1,021,371; Mar. 26; Sp. p. 5005; Gaz. vol. 176; p. 914.
Medwedeff, Arthur. (See Poole, Walter L., assignor.)
Meech, Frank B., New York, N. Y. Diaphragm. No. 1,016,704; Feb. 6; Sp. p. 1069; Gaz. vol. 175; p. 164.
Meeder, Herbert L., Fremont, Nebr. Starting device for explosive-engines. No. 1,049,122; Dec. 31; Gaz. vol 185; p. 1286.
Meehan, Michael. (See Brennan and Meehan.)
Meehan, Patrick, Lowellville, Ohio. Gas-cleaner. No. 1,035,892; Aug. 20; Gaz. vol. 181; p. 573.
Meehan, Patrick. (See Rogers, James B., assignor.)
Meek, Clifford P., Greensburg, Ind. Plow-beam. No. 1,022,958; Apr. 9; Sp. p. 2581; Gaz. vol. 177; p. 438.
Meek, Harry S., Wichita, Kans. Curtain-fixture. No. 1,025,920; May 7; Sp. p. 1814; Gaz. vol. 178; p. 280.
Meek, Herreman O., Garden City, Kans. Concrete-mold. No. 1,016,285; Feb. 6; Sp. p. 111; Gaz. vol. 175; p. 17.
Meek, Herreman O., and C. E. Bradburn, Garden City, Kans. Collapsible form. No. 1,016,284; Feb. 6; Sp. p. 109; Gaz. vol. 175; p. 17.
Meek, Silas L., Alma Center, Wis. Draft-equalizer. No. 1,036,135; Aug. 20; Gaz. vol. 181; p. 656.
Meeker, Albert A., New York, N. Y. Folding stool. No. 1,026,759; May 21; Sp. p. 3671; Gaz. vol. 178; p. 637.
Meeker, John F., Stamps, Ark. Flue-expander. No. 1,024,802; Apr. 30; Sp. p. 6603; Gaz. vol. 177; p. 1161.
Meeker, Samuel G., New York, N. Y. Lock-nut. No. 1,045,423; Nov. 26; Gaz. vol. 184; p. 917.
Meeks, John J. (See Meeks, Oscar L., assignor.)
Meeks, Oscar L., Abilene, Kans., assignor of one-half to J. J. Meeks, Kansas City, Mo. Cooler. No. 1,024,014; Apr. 23; Sp. p. 4804; Gaz. vol. 177; p. 853.
Meem, James C., assignor of one-half to F. L. Cranford, Brooklyn, N. Y. Tunnel construction. No. 1,018,578; Feb. 27; Sp. p. 5256; Gaz. vol. 175; p. 912.
Mees, Eberhard F., Milwaukee, Wis. Roller-skate. No. 1,018,512; Feb. 27; Sp. p. 5098; Gaz. vol. 175; p. 889.
Mees, Gustav, Charlottenburg, Germany. Turbine-driven helicopter. No. 1,047,266; Dec. 17; Gaz. vol. 185; p. 579.
Mefort, Gustave, assignor to The Simple Account Sales-book Company, Fremont, Ohio. Manifold sales-book. No. 1,039,166; Sept. 24; Gaz. vol. 182; p. 756.
Megahan, Oliver P., Westerville, Ohio. Insulator-support. No. 1,029,207; June 11; Sp. p. 2464; Gaz. vol. 179; p. 419.
Megginson, Cabell W., Danville, Va., assignor to Draper Company, Hopedale, Mass. Shipper-locking means for looms. No. 1,042,461; Oct. 29; Gaz. vol. 183; p. 1070.
Megill, William S. C., National Home, Wis. Spittoon-lifter. No. 1,023,669; Apr. 16; Sp. p. 4053; Gaz. vol. 177; p. 711.
Meginness, John C., Wolsey, S. D. Car-coupling. No. 1,037,790; Sept. 3; Gaz. vol. 182; p. 204.
Meguire, Abijah S., Chicago, Ill. Rock-drill bit. No. 1,036,673; Aug. 27; Gaz. vol. 181; p. 875.
Mehlberger, Louis, Sparta, Mich. Steel railway-tie. No. 1,046,480; Dec. 10; Gaz. vol. 185; p. 275.
Mehlhope, Clarence E., trustee. (See Stanwood, James B., assignor.)
Mehner, Hermann, Berlin, Germany. Producing alkali metal from oxygen compounds of alkali. No. 1,016,758; Feb. 6; Sp. p. 1176; Gaz. vol. 175; p. 181.
Mehringer, Theodore A., Jasper, Ind. Foldable chicken-coop. No. 1,031,359; July 2; Gaz. vol. 180; p. 179.
Meier, Albert. (See Meier, Ernst, assignor.)
Meier, Albert J., Glendale, Mo. Bearer for corroding-pots. No. 1,017,627; Feb. 13; Sp. p. 3043; Gaz. vol. 175; p. 513.
Meier, Albert J., Glendale, Mo. Annealing-oven. No. 1,024,217; Apr. 23; Sp. p. 5278; Gaz. vol. 177; p. 925.
Meier, Albert J., Glendale, Mo. Heading-machine for steel packages. No. 1,025,637; May 7; Sp. p. 1193; Gaz. vol. 178; p. 183.
Meier, Albert J., Glendale, Mo. Bag-house. No. 1,030,477; June 25; Sp. p. 5281; Gaz. vol. 179; p. 937.
Meier, Albert J., Glendale, assignor to Unit Construction Company, St. Louis, Mo. Concrete construction. No. 1,031,079; July 2; Gaz. vol. 180; p. 82.
Meier, Albert J., Glendale, and W. L. Sullivan, assignors to The Temco Manufacturing Company, St. Louis, Mo. Ticket vending and registering machine. No. 1,039,167; Sept. 24; Gaz. vol. 182; p. 757.
Meier, August J., Longtown, Mo. Saw-carriage. No. 1,040,233; Oct. 1; Gaz. vol. 183; p. 187.
Meier, Charles. (See Langen and Meier.)
Meier, Ernst, assignor of one-half to A. Meier, Hye, Tex. Music-leaf turner. No. 1,021,940; Apr. 2; Sp. p. 388; Gaz. vol. 177; p. 64.
Meier, John, De Kalb, Tex. Cotton-picker. No. 1,032,560; July 16; Gaz. vol. 180; p. 674.
Meier, Konrad, New York, N. Y. Cast-iron blast-heater. No. 1,047,676; Dec. 17; Gaz. vol. 185; p. 726.
Meier, May S. (See Wood, Charles C., assignor.)
Meier, Reinhold, Chicago, Ill. Pneumatic carrier. No. 1,047,547; Dec. 17; Gaz. vol. 185; p. 679.
Meier, Willi E. P., Grenaa, Denmark. Hog-scraping machine. No. 1,024,412; Apr. 23; Sp. p. 5679; Gaz. vol. 177; p. 989.
Meigs, Curtis C., Woodbury, N. J. Apparatus for making sulfuric acid. No. 1,022,493; Apr. 9; Sp. p. 1557; Gaz. vol. 177; p. 279.
Meigs, Curtis C., Woodbury, N. J. Ore-burner. No 1,038,408; Sept. 10; Gaz. vol. 182; p. 447.
Meigs, Frank E., Burlington, Vt. Belt-pulley. No. 1,042,583; Oct. 29; Gaz. vol. 183; p. 1114.
Meigs, John F., and R. P. Stout, assignors to Bethlehem Steel Company, South Bethlehem, Pa. Ammunition-loading apparatus. No. 1,018,067; Feb. 20; Sp. p. 4092; Gaz. vol. 175; p. 704.
Meigs, Stanley V., Pueblo, Colo. Railway motor-car. No. 1,025,201; May 7; Sp. p. 203; Gaz. vol. 178; p. 34.
Meikel, Charles W. (See Bright, Martin C., assignor.)
Meilink, Charles F., Toledo, Ohio. Safe-cabinet. No. 1,020,652; Mar. 19; Sp. p. 3502; Gaz. vol. 176; p. 618.
Meinhardt, Hans A., Pittsfield, Mass. Resilient tire. No. 1,022,689; Apr. 9; Sp. p. 1990; Gaz. vol. 177; p. 345.
Meinhardt, Hans A., assignor of one-half to T. J. Urell, Pittsfield, Mass. Slide for motion-picture machines. No. 1,016,575; Feb. 6; Sp. p. 800; Gaz. vol. 175; p. 118.
Meinken, A. C. T. (See Meinken, John, assignor.)
Meinken, John, assignor of one-half to A. C. F. Meinken, St. Paul, Minn. Mold. No. 1,047,102; Dec. 10; Gaz. vol. 185; p. 489.
Meis, William, Mount Oliver borough, assignor to W. C. McClure, Carrick borough, and W. Fromm, St. Clair borough, Pa. Detonating toy. No. 1,017,683; Feb. 20; Sp. p. 3158; Gaz. vol. 175; p. 569.
Meisel, Francis, assignor to Meisel Press & Manufacturing Company, Boston, Mass. Printing and numbering machine. No. 1,034,637; Aug. 6; Gaz. vol. 181; p. 77.
Meisel, Francis, assignor to Meisel Press & Manufacturing Company, Boston, Mass. Machine for making toilet-paper rolls. No. 1,037,284; Sept. 3; Gaz. vol. 182; p. 35.
Meisel Press & Manufacturing Company. (See Meisel, Francis, assignor.)
Meisenburg, Kurt. (See Hofmann, Delbrück, and Meisenburg.)
Meiser, Jesse A., assignor of one-fourth to J. A. Prentice, Eureka, Cal. Photographic-printing apparatus. No. 1,014,767; Jan. 16; Sp. p. 3734; Gaz. vol. 174; p. 636.
Meisselbach Catucci Manufacturing Company. (See Catucci, Pliny, assignor.)

Alphabetical list of patentees—Continued.

Meissner, Edward C., St. Louis, Mo., assignor to Chicago Pneumatic Tool Company, Chicago, Ill. Pneumatic hammer. No. 1,028,124; June 4; Sp. p. 63; Gaz. vol. 179; p. 14.
Meissner, Otto W., Montreal, Quebec, Canada. Door. No. 1,014,768; Jan. 16; Sp. p. 3741; Gaz. vol. 174; p. 636.
Meissner, Otto W., Montreal, Quebec, Canada. Dump-car. No. 1,044,681; Nov. 19; Gaz. vol. 184; p. 631.
Meissner, Otto W., Westmount, Quebec, Canada. Trap-door. No. 1,022,747; Apr. 9; Sp. p. 2142; Gaz. vol. 177; p. 367.
Meissner, Otto W., Westmount, Quebec, Canada. Dump-car. No. 1,022,748; Apr. 9; Sp. p. 2144; Gaz. vol. 177; p. 368.
Meissner, Otto W., Westmount, Quebec, Canada. Trap-door. No. 1,023,951; Apr. 23; Sp. p. 4685; Gaz. vol. 177; p. 832.
Meissner, Otto W., Westmount, Quebec, Canada. Trap-door-operating mechanism. No. 1,035,801; Aug. 13; Gaz. vol. 181; p. 502.
Meissner, Otto W., Westmount, Quebec, Canada. Door. No. 1,043,953; Nov. 12; Gaz. vol. 184; p. 351.
Meister, Peter S., Denver, Colo. Carcass-shifting apparatus for packing-houses. No. 1,036,297; Aug. 20; Gaz. vol. 181; p. 713.
Meitz, August W., Grand Rapids, Mich. Valve-seating implement. No. 1,022,038; Apr. 2; Sp. p. 609; Gaz. vol. 177; p. 96.
Mekeel, Charles H., Jr., St. Louis county, Mo. Wrench. No. 1,014,714; Jan. 16; Sp. p. 3610; Gaz. vol. 174; p. 618.
Melander, August W., San Francisco, Cal. Lubricating-projectile. No. 1,039,774; Oct. 1; Gaz. vol. 183; p. 36.
Melanson, Ranchford B., Lynn, assignor of one-half to J. P. Bauer, Marblehead, Mass. Shoe and box-toe therefor. No. 1,043,858; Nov. 12; Gaz. vol. 184; p. 316.
Melber, George, Ekalaka, Mont. Washboard. No. 1,022,251; Apr. 2; Sp. p. 1055; Gaz. vol. 177; p. 168.
Melberg, Victor E. (See Willis, William B., assignor.)
Melbye, Oskar, Cypress Island, Wash. Winch. No. 1,017,307; Feb. 13; Sp. p. 2392; Gaz. vol. 175; p. 407.
Melcher, Frank O. (See Hollis and Melcher.)
Melchers, John H., Decatur, Ill. Bleaching old papers, paper-stock, straw, &c. No. 1,032,229; July 9; Gaz. vol. 180; p. 519.
Melchert, Charles A., assignor, by mesne assignments, to The Accident Insurance Machine Company, Kansas City, Mo. Coin-controlled vending-machine. No. 1,014,016; Jan. 9; Sp. p. 2071; Gaz. vol. 174; p. 349.
Melchert, Charles A., assignor, by mesne assignments, to The Accident Insurance Machine Company, Kansas City, Mo. Clock-set printing mechanism. No. 1,014,017; Jan. 9; Sp. p. 2079; Gaz. vol. 174; p. 349.
Melchert, Charles A., assignor to Automatic Machine Sales Company, Kansas City, Mo. Vending-machine. No. 1,044,682; Nov. 19; Gaz. vol. 184; p. 632.
Melchert, Charles A., assignor to Automatic Machine Sales Company, Kansas City, Mo. Vending-machine. No. 1,044,683; Nov. 19; Gaz. vol. 184; p. 632.
Melchior, Joseph E., Des Moines, Iowa, assignor of one-half to North and Judd Manufacturing Company, New Britain, Conn. Spread-roller. No. 1,014,769; Jan. 16; Sp. p. 3742; Gaz. vol. 174; p. 637.
Meldrum, Harry W., East St. Louis, Ill. Wrench. No. 1,015,970; Jan. 30; Sp. p. 6328; Gaz. vol. 174; p. 1101.
Meledonian, Sarkis, Seattle, Wash. Trunk-fastener. No. 1,033,917; July 30; Gaz. vol. 180; p. 1196.
Meleney, George B., Chicago, Ill. Drawer and file-holder. No. 1,016,890; Feb. 6; Sp. p. 1438; Gaz. vol. 175; p. 224.
Melhorn, Charles T., Amsbry, Pa. Wrench. No. 1,028,243; June 4; Sp. p. 405; Gaz. vol. 179; p. 57.
Melinski, Mykolaj, Albert City, Iowa. Trolley-pole. No. 1,013,673; Jan. 2; Sp. p. 1289; Gaz. vol. 174; p. 202.
Melio, James, Chicago, Ill. Non-refillable bottle. No. 1,034,721; Aug. 6; Gaz. vol. 181; p. 107.
Mell, Tod J., assignor to The Republic Rubber Company, Youngstown, Ohio. Tire for vehicle-wheels. No. 1,021,422; Mar. 26; Sp. p. 5155; Gaz. vol. 176; p. 933.
Mellen, Frank, New York, N. Y. Shoe-jack. No. 1,042,364; Oct. 22; Gaz. vol. 183; p. 1007.
Mellen, Joseph F., Providence, R. I. Arm-rest for glove-fitting. No. 1,025,476; May 7; Sp. p. 825; Gaz. vol. 178; p. 129.
Mellin, Carl J., Schenectady, N. Y. Steam-pipe for articulated locomotives. No. 1,020,435; Mar. 19; Sp. p. 3028; Gaz. vol. 176; p. 548.
Mellin, Carl J., Schenectady, assignor to American Locomotive Company, New York, N. Y. Compound engine. No. 1,025,638; May 7; Sp. p. 1196; Gaz. vol. 178; p. 184.
Melling, George, *et al.* (See Melling, Herman, assignor.)
Melling, George, assignor of one-third to H. W. Melling and one-third to L. Northrup, Jackson, Mich. Die-sinking or routing tool. No. 1,029,208; June 11; Sp. p. 2465; Gaz. vol. 179; p. 419.
Melling, Herman, assignor of one-third to L. Northrup and one-third to G. Melling, Jackson, Mich. Combined router and die-sinker. No. 1,028,125; June 4; Sp. p. 66; Gaz. vol. 179; p. 15.
Melling, Herman W., *et al.* (See Melling, George, assignor.)
Mellinger, Franklin C., Avon, Pa. Railway-tie. No. 1,037,506; Sept. 3; Gaz. vol. 182; p. 112.
Mellinger, Theodore G., West Hempfield township, Lancaster county, assignor of one-half to M. M. Harnish, Lancaster, Pa. Incubator. No. 1,037,180; Aug. 27; Gaz. vol. 181; p. 1043.
Mellon, George A., St. Louis, Mo. Link bed-bottom fabric. No. 1,024,803; Apr. 30; Sp. p. 6604; Gaz. vol. 177; p. 1161.
Mellon, George A., assignor to Link Fabric Company of America, St. Louis, Mo. Mattress-guard. No. 1,031,656; July 2; Gaz. vol. 180; p. 280.
Melnik, Rose S., Upper Montclair, N. J. Garment. No. 1,021,878; Apr. 2; Sp. p. 276; Gaz. vol. 177; p. 44.
Melson, George T., Coleman, Fla. Time stock-feeder. No. 1,014,163; Jan. 9; Sp. p. 2383; Gaz. vol. 174; p. 398.
Melton, Daniel H. and E. L., Enfield, N. C. Fertilizer-distributer. No. 1,043,124; Nov. 5; Gaz. vol. 184; p. 26.
Melton, Edward R., Washington, D. C. Cooling apparatus for inking-rollers. No. 1,048,193; Dec. 24; Gaz. vol. 185; p. 928.
Melton, Elias L. (See Melton, Daniel H. and E. L.)
Melton, Robert A., Stockton, Cal. Counting-machine. No. 1,039,168; Sept. 24; Gaz. vol. 182; p. 757.
Melville-Hamilton, Augusta M., Medindie, South Australia, Australia. Water-bottle or water-bag. No. 1,019,171; Mar. 5; Sp. p. 371; Gaz. vol. 176; p. 58.
Melville, John W. (See Miller, Edwin H., assignor.)
Melville, John W., Los Angeles, Cal. Measuring-tape. No. 1,023,863; Apr. 23; Sp. p. 4475; Gaz. vol. 177; p. 802.
Melvin, Benjamin G. (See Blaney, William, assignor.)
Melzer, Adolph, Evansville, Ind. Animal-ambulance. No. 1,019,268; Mar. 5; Sp. p. 574; Gaz. vol. 176; p. 92.
Melzi, Firm of Eredi. (See Berti, Salvatore, assignor.)
Memmersheim, Werner, Neheim, Germany. Steam-pressure regulator. No. 1,013,199; Jan. 2; Sp. p. 224; Gaz. vol. 174; p. 38.
Menager, Henry A., Gallipolis, Ohio, assignor of ninety one-hundredth to J. A. Menager, Holden, W. Va. Tool for stringing line-wires. No. 1,036,136; Aug. 20; Gaz. vol. 181; p. 657.
Menager, John A. (See Menager, Henry A., assignor.)
Menapace, J. M. (See Sims, John H., assignor.)
Menard, Philip P. (See Burlingame and Menard.)
Menarini, Giuseppe, and A. Emanuele, Rome, Italy. Device for practising in shooting without projectiles. No. 1,031,566; July 2; Gaz. vol. 180; p. 249.
Mencher, Abraham I., New York, N. Y. Bow-facing oar. No. 1,033,720; July 23; Gaz. vol. 180; p. 1101.
Mendel, Carlo, Triest, Austria-Hungary. Coupling. No. 1,027,267; May 21; Sp. p. 4815; Gaz. vol. 178; p. 812.
Mendelsohn, Harry, New York, N. Y. Reversible buffer. No. 1,014,629; Jan. 9; Sp. p. 3396; Gaz. vol. 174; p. 559.
Mendelsohn, I. W., *et al.* (See Dressel, Charles P., assignor.)
Mendenhall, Charles E., *et al.* (See Kettering, Charles F., assignor.)
Mendenhall, Clarence M., New Rochelle, N. Y., assignor to The Railway Materials Company, Chicago, Ill. Brake-shoe. No. 1,045,997; Dec. 3; Gaz. vol. 185; p. 68.
Mendenhall, Elbert V., assignor to M. F. Mendenhall, Los Angeles, Cal. Piano-bench. No. 1,018,204; Feb. 20; Sp. p. 4378; Gaz. vol. 175; p. 752.
Mendenhall, Hiram, and A. T. Killinger, Audubon, Iowa. Ironing-board. No. 1,034,021; July 30; Gaz. vol. 180; p. 1234.
Mendenhall, Mary F. (See Mendenhall, Elbert V., assignor.)
Mendenhall, William J. (See Swenson, Herman C., assignor.)
Méndez, Ciro F., assignor of one-half to R. Ypina, San Luis Potosi, Mexico. Rotatory mechanism. No. 1,035,377; Aug. 13; Gaz. vol. 181; p. 361.
Menendez, Gabriel A., assignor to The Goss Printing Press Company, Chicago, Ill. Brake mechanism for web-rolls. No. 1,028,244; June 4; Sp. p. 407; Gaz. vol. 179; p. 58.
Mengel Box Company. (See Schleicher, John W., assignor.)
Mengel Box Company. (See Schleicher, Robert, assignor.)
Menger, Joseph R. W., Union Hill, N. J. Cigarette-box. No. 1,029,548; June 11; Sp. p. 3205; Gaz. vol. 179; p. 537.
Menk, George L., St. Louis, Mo. Heating-stove. No. 1,019,172; Mar. 5; Sp. p. 373; Gaz. vol. 176; p. 58.
Menke, George E., assignor of one-half to J. J. Detmers, Hebron, Nebr. Loading device. No. 1,021,696; Mar. 26; Sp. p. 5683; Gaz. vol. 176; p. 1023.
Menke, Karl H., Portland, Oreg. Water-motor. No. 1,014,164; Jan. 9; Sp. p. 2384; Gaz. vol. 174; p. 398.
Mennenga, Onko J., Renville, Minn. Basket for passenger-cars. No. 1,039,310; Sept. 24; Gaz. vol. 182; p. 810.
Mennesson, Marcel. (See Goudard and Mennesson.)
Menningen, Joseph F., deceased, West Allis, Wis.; K. Menningen, administratrix. Vacuum-producing apparatus. No. 1,013,200; Jan. 2; Sp. p. 225; Gaz. vol. 174; p. 38.
Menningen, Joseph F., West Allis, Wis., assignor to Allis-Chalmers Company. Controller. No. 1,028,948; June 11; Sp. p. 1913; Gaz. vol. 179; p. 331.

Alphabetical list of patentees—Continued.

Menningen, Joseph F., West Allis, Wis., assignor to Allis-Chalmers Company. Fluid-pressure governor. No. 1,048,424; Dec. 24; Gaz. vol. 185; p. 1004.
Menningen, Katherine, administratrix. (See Menningen, Joseph F.)
Menns, Walter K., Malden, assignor to C. H. Pearson, Brookline, Mass. Electromagnetic instrument. No. 1,029,880; June 18; Sp. p. 3965; Gaz. vol. 179; p. 690.
Menns, Walter K., Malden, assignor to C. H. Pearson, Brookline, Mass. Electromagnetic instrument. No. 1,035,378; Aug. 13; Gaz. vol. 181; p. 362.
Menns, Walter K., Malden, assignor to Chelsea Clock Company, Boston, Mass. Speed indicating and recording device. No. 1,037,952; Sept. 10; Gaz. vol. 182; p. 294.
Meno, Frederick J., Detroit, Mich. Message-carrier for vessels. No. 1,013,607; Jan. 2; Sp. p. 1112; Gaz. vol. 174; p. 179.
Mensing, Henry A., Rochester, N. Y. Calculator. No. 1,039,775; Oct. 1; Gaz. vol. 183; p. 36.
Menteer, Robert E. (See Bell and Menteer.)
Mentz, George F., Attica, N. Y., assignor, by mesne assignments, to United Aviation Company. Aeroplane. No. 1,034,638; Aug. 6; Gaz. vol. 181; p. 78.
Mentzer, Albert A. (See Haslett and Mentzer.)
Menuskin, Simon, Chattanooga, Tenn. Vertically-adjustable window-shade fixture. No. 1,037,285; Sept. 3; Gaz. vol. 182; p. 36.
Menzel, Christian L., Nobby, Queensland, Australia. Boat. No. 1,038,928; Sept. 17; Gaz. vol. 182; p. 664.
Menzies, Robert C., Glens Falls, N. Y. Street-cleaning machine. No. 1,014,165; Jan. 9; Sp. p. 2386; Gaz. vol. 174; p. 399.
Menzies, Thomas G. (See Gibb, Menzies, and Chalmers.)
Mercadier, Gabriel. (See Lucas-Girardville and Mercadier.)
Mercantile Supply Company, The. (See Barnes, Edward M., assignor.)
Mercer, H. J. (See Perkins, Henry, assignor.)
Mercer, Ivor E., Gravesend, England. Valve. No. 1,049,123; Dec. 31; Gaz. vol. 185; p. 1287.
Mercer, Josias J., assignor of one-third to S. D. Adkins and one-third to F. D. Marshall, Crowder, Mo. Gravitating hinge. No. 1,046,209; Dec. 3; Gaz. vol. 185; p. 141.
Mercer, Thomas, Preston, England. Crank manufacture. No. 1,022,434; Apr. 9; Sp. p. 1448; Gaz. vol. 177; p. 259.
Merchant, Woodson T., Louisville, Ky. Hospital-bed. No. 1,038,623; Sept. 17; Gaz. vol. 182; p. 557.
Mercié, Henri A. (See Benét and Mercié.)
Mercier, Joseph T., assignor to E. J. Magerstadt, Chicago, Ill. Car-ventilator. No. 1,033,918; July 30; Gaz. vol. 180; p. 1196.
Merck, Thomas M., Gainesville, Ga. Truss. No. 1,031,724; July 9; Gaz. vol. 180; p. 346.
Merckens, August, New York, N. Y. Airship. No. 1,033,186; July 23; Gaz. vol. 180; p. 925.
Merckens, Waldemar. (See Smith and Merckens.)
Meredith, George H., San Francisco, Cal. Self-adjusting trolley-pole. No. 1,022,959; Apr. 9; Sp. p. 2582; Gaz. vol. 177; p. 439.
Meredith, George W., Chicago, Ill. Transmission-gearing. No. 1,027,268; May 21; Sp. p. 4817; Gaz. vol. 178; p. 812.
Meredith-Jones, Hubert, New York, N. Y., assignor to Columbia Nut and Bolt Company, Incorporated, Bridgeport, Conn. Shaft driving and releasing mechanism. No. 1,040,563; Oct. 8; Gaz. vol. 183; p. 331.
Meredith, Noah E., Los Angeles, Cal. Valve-grinder. No. 1,015,902; Jan. 30; Sp. p. 6187; Gaz. vol. 174; p. 1079.
Meredith, Samuel W., Philadelphia, Pa. Adjustable extension drill-socket. No. 1,028,126; June 4; Sp. p. 69; Gaz. vol. 179; p. 15.
Meredith, William F. (See Rossi and Meredith.)
Meredith, William L., Searsboro, Iowa. Game apparatus. No. 1,035,029; Aug. 6; Gaz. vol. 181; p. 208.
Meredith, Z. Albert, Marion, Ohio. Cornet. No. 1,040,372; Oct. 8; Gaz. vol. 183; p. 265.
Mergenthaler Linotype Company. (See Degener, Heinrich, assignor.)
Mergenthaler Linotype Company. (See Lawrenz, Emil, assignor.)
Mergenthaler Linotype Company. (See McNamara, James, assignor.)
Mergenthaler Linotype Company. (See Muehleisen, Carl, assignor.)
Mergenthaler Linotype Company. (See Muehleisen and Albrecht, assignors.)
Mergenthaler Linotype Company. (See Rödiger and Muehleisen, assignors.)
Mergenthaler Linotype Company. (See Rogers, John R., assignor.)
Mergenthaler Linotype Company. (See Rogers, John R., assignor.) (Reissue.)
Mergner, Friedrich, Neumarkt, Oberpfalz, Germany. Adjustable support. No. 1,024,804; Apr. 30; Sp. p. 6605; Gaz. vol. 177; p. 1161.
Merhige, Amin, and C. F. Cookson, New York, N. Y.; said Cookson assignor to said Merhige. Cloth-cutting machine. No. 1,024,271; Apr. 23; Sp. p. 5397; Gaz. vol. 177; p. 945.
Meriam, Joseph B., and H. L. Allen, assignors to The Bruce-Macbeth Engine Company, Cleveland, Ohio. Gas-engine valve. No. 1,046,210; Dec. 3; Gaz. vol. 185; p. 142.
Merian, Frederic, assignor to Forter Miller Engineering Company, Pittsburgh, Pa. Gas-producer. No. 1,040,723; Oct. 8; Gaz. vol. 183; p. 390.
Merikle, Edward D., Passaic, N. J. Garden-hose reel. No. 1,030,199; June 18; Sp. p. 4640; Gaz. vol. 179; p. 797.
Merillat, Peter C., Winfield, Iowa. Adjustable mold for culverts and bridges. No. 1,022,960; Apr. 9; Sp. p. 2584; Gaz. vol. 177; p. 439.
Meriwether, Charles N., Clarksville, Tenn. Phosphate and making same. No. 1,016,352; Feb. 6; Sp. p. 261; Gaz. vol. 175; p. 41.
Meriwether, Coleman. (See Kaufman and Meriwether.)
Meriwether, Coleman, Montclair, N. J., assignor to Lock Joint Pipe Cimpany, New York, N. Y. Reinforced-concrete caisson. No. 1,048,993; Dec. 31; Gaz. vol. 185; p. 1241.
Meriwether, Edward G., *et al.* (See Custer, Peter A., assignor.)
Merkel, Arthur E., assignor to Schaffner Bros., Cleveland, Ohio. Adjustable garment. No. 1,014,317; Jan. 9; Sp. p. 2726; Gaz. vol. 174; p. 454.
Merkel, Benedict. (See Engelmann and Merkel.)
Merkel, Benedikt. (See Engelmann, Merkel, and Wesenberg.)
Merkel, Guy F., Fairfax, Minn. Bundle-carrier for band-cutters and feeders. No. 1,032,691; July 16; Gaz. vol. 180; p. 721.
Merkel, Henry W., Cincinnati, Ohio. Closet-flush. No. 1,037,034; Aug. 27; Gaz. vol. 181; p. 995.
Merkel, Jacob B., and G. J. Carroll, Tamaqua, Pa. Film-winding mechanism for moving-picture machines. No. 1,021,617; Mar. 26; Sp. p. 5555; Gaz. vol. 176; p. 997.
Merkel, James B., and W. M. Reynolds, Hattiesburg, Miss. Combined planter and fertilizer-distributer. No. 1,033,605; July 23; Gaz. vol. 180; p. 1065.
Merkel, Lewis W., assignor of one-fourth to J. J. Hanlon and one-fourth to H. G. Schelden, Allentown, Pa. Moving-picture machine. No. 1,026,991; May 21; Sp. p. 4207; Gaz. vol. 178; p. 718.
Merkel, Martin, Celestine, Ind. Harrow. No. 1,023,436; Apr. 16; Sp. p. 3587; Gaz. vol. 177; p. 638.
Merkel, Paul, Böhlen, near Rötha, Germany. Producing patterns on hair-covered skins. No. 1,042,809; Oct. 29; Gaz. vol. 183; p. 1192.
Merkelbach, Albert J., Muscatine, Iowa. Burial-vault. No. 1,035,987; Aug. 20; Gaz. vol. 181; p. 603.
Merling, Georg, and H. Köhler, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Producing isoprene. No. 1,026,691; May 21; Sp. p. 3521; Gaz. vol. 178; p. 614.
Merling, Georg, and H. Köhler, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Producing isoprene. No. 1,026,692; May 21; Sp. p. 3521; Gaz. vol. 178; p. 614.
Merling, Georg, and H. Köhler, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Producing isoprene. No. 1,036,875; Aug. 27; Gaz. vol. 181; p. 942.
Merling, Georg, and H. Köhler, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Producing erythrene. No. 1,036,876; Aug. 27; Gaz. vol. 181; p. 942.
Meronek, Nick, Polonia, Wis. Distributing-machine. No. 1,021,544; Mar. 26; Sp. p. 5413; Gaz. vol. 176; p. 975.
Merrell, Howard E., *et al.* (See Gill, Edwin R., assignor.)
Merrell, Irving S. (See Merrell, Lewis C. and I. S.)
Merrell, Lewis C. and I. S., assignors to Merrell-Soule Company, Syracuse, N. Y. Desiccating milk. No. 1,048,463; Dec. 24; Gaz. vol. 185; p. 1019.
Merrell-Soule Company. (See Merrell, Lewis C. and I. S., assignors.)
Merriam, Henry F. (See Briggs and Merriam.)
Merriam, Henry F. (See Leddell, William A., assignor.)
Merriam, Henry T., Springfield, Mass. Bur-remover for pipes. No. 1,036,298; Aug. 20; Gaz. vol. 181; p. 713.
Merriam, Henry T., Springfield, Mass. Tool for removing burs internally on pipes. No. 1,049,124; Dec. 31; Gaz. vol. 185; p. 1287.
Merrick, Asa L. (See Lawson, Benjamin S., assignor.)
Merrick, Herbert L., Passaic, N. J. Automatic weigher. No. 1,018,068; Feb. 20; Sp. p. 4094; Gaz. vol. 175; p. 705.
Merrifield, Charles W., Springvale, Me. Fly-killer. No. 1,030,004; June 18; Sp. p. 4214; Gaz. vol. 179; p. 730.
Merrill, Arthur H., Hartford, Conn. Compound tool. No. 1,040,564; Oct. 8; Gaz. vol. 183; p. 332.
Merrill, Edwin R., Columbus, Ohio, assignor to The Jeffrey Manufacturing Company. Anchor. No. 1,047,267; Dec. 17; Gaz. vol. 185; p. 579.
Merrill, Emily L., Dorchester, Mass. Run-opener and pole-guide. No. 1,045,998; Dec. 3; Gaz. vol. 185; p. 68.
Merrill, Henry D., Clinton, Mo. Flood-gate. No. 1,013,608; Jan. 2; Sp. p. 1113; Gaz. vol. 174; p. 179.
Merrill, Ira J., assignor of one-half to C. A. Benbow, Portland, Oreg. Spring-wheel. No. 1,039,311; Sept. 24; Gaz. vol. 182; p. 810.
Merrill, Jason L. (See Sammet and Merrill.)

Alphabetical list of patentees—Continued.

Merrill, Joshua, Dedham, Mass. Detachable stopper-retainer for bottles. No. 1,035,219; Aug. 13; Gaz. vol. 181; p. 304.
Merrill Metallurgical Company. (See Bosqui, Daniel, assignor.)
Merrill, Nate E., and J. C. Cavender, Hobart, Ind. Roller-bearing. No. 1,019,819; Mar. 12; Sp. p. 1741; Gaz. vol. 176; p. 305.
Merrill, Peter H., Pardeeville, assignor of one-half to L. E. Wheeler, Randolph, Wis. Wire-fence tool. No. 1,015,503; Jan. 23; Sp. p. 5330; Gaz. vol. 174; p. 914.
Merrill, Robert T., Milwaukee, Wis. Ventilator and chimney-cap. No. 1,037,286; Sept. 3; Gaz. vol. 182; p. 36.
Merrill, William H., St. Louis, Mo. Venereal bag. No. 1,014,837; Jan. 16; Sp. p. 3906; Gaz. vol. 174; p. 662.
Merrill, Willis C., Boston, Mass. Treating oleaginous materials. No. 1,023,386; Apr. 16; Sp. p. 3488; Gaz. vol. 177; p. 622.
Merrimac Chemical Company. (See Walker, William H., assignor.)
Merriman, Charles H., *et al.* (See Blake, David H., assignor.)
Merriman, Ichabud. (See Cassidy, James C., assignor.)
Merriman, Le Grand, *et al.* (See Blake, David H., assignor.)
Merriman, Myron C., Detroit, Mich. Cushion-tire. No. 1,014,318; Jan. 9; Sp. p. 2727; Gaz. vol. 174; p. 454.
Merriman, Thomas T., and B. F. Peart, Central Point, Oreg. Vise. No. 1,019,682; Mar. 5; Sp. p. 1477; Gaz. vol. 176; p. 228.
Merritt, Alfred E., Gainesville, Ga. Agricultural implement. No. 1,034,481; Aug. 6; Gaz. vol. 181; p. 26.
Merritt, Alfred E., Gainesville, Ga. Producing a rubber-containing product. No. 1,045,053; Nov. 19; Gaz. vol. 184; p. 761.
Merritt, Arthur A., Worcester, Mass., assignor to Willcox & Gibbs Sewing Machine Company, New York, N. Y. Sewing-machine. No. 1,041,652; Oct. 15; Gaz. vol. 183; p. 732.
Merritt, Arthur A., Worcester, Mass., assignor to Willcox & Gibbs Sewing Machine Co., New York, N. Y. Sewing-machine. No. 1,041,653; Oct. 15; Gaz. vol. 183; p. 732.
Merritt, Arthur A., Worcester, Mass., assignor to Willcox & Gibbs Sewing Machine Company, New York, N. Y. Needle-bar-driving connection. No. 1,041,654; Oct. 15; Gaz. vol. 183; p. 733.
Merritt, Arthur A., Worcester, Mass., assignor to Willcox & Gibbs Sewing Machine Company, New York, N. Y. Thread-guide. No. 1,041,655; Oct. 15; Gaz. vol. 183; p. 733.
Merritt, Arthur A., Worcester, Mass., assignor to Willcox & Gibbs Sewing Machine Company, New York, N. Y. Thread-guide. No. 1,041,656; Oct. 15; Gaz. vol. 183; p. 734.
Merritt, Arthur A., Worcester, Mass., assignor to Willcox & Gibbs Sewing Machine Company, New York, N. Y. Driving connection for sewing-machines. No. 1,041,657; Oct. 15; Gaz. vol. 183; p. 734.
Merritt, Arthur A., Worcester, Mass., assignor to Willcox & Gibbs Sewing Machine Company, New York, N. Y. Feeding mechanism for sewing-machines. No. 1,041,658; Oct. 15; Gaz. vol. 183; p. 734.
Merritt, Arthur A., Worcester, Mass., assignor to Willcox & Gibbs Sewing Machine Company, New York, N. Y. Rotary take-up. No. 1,041,715; Oct. 15; Gaz. vol. 183; p. 753.
Merritt, Arthur A., Worcester, Mass., assignor to Willcox & Gibbs Sewing Machine Company, New York, N. Y. Thread-guide. No. 1,044,068; Nov. 12; Gaz. vol. 184; p. 390.
Merritt, Carl, assignor to Rudgear-Merle & Co., San Francisco, Cal. Invisible hinge-joint for wall-beds. No 1,039,986; Oct. 1; Gaz. vol. 183; p. 105.
Merritt, James M., Los Angeles, Cal. Gearing. No. 1,023,266; Apr. 16; Sp. p. 3267; Gaz. vol. 177; p. 583.
Merritt, Joseph. (See Lorenz and Merritt.)
Merritt, Joseph, Hartford, Conn., assignor to Union Paper Bag Machine Company, Philadelphia, Pa. Making paper bags. No. 1,029,706; June 18; Sp. p. 3569; Gaz. vol. 178; p. 630.
Merritt, Joseph, Hartford, Conn., assignor, by mesne assignments, of one-half to Beech-Nut Packing Company, Canajoharie, N. Y., one-fourth to W. A. Lorenz, and one-fourth to W. H. Honiss, Hartford, Conn. Hermetic-sealing apparatus. No. 1,026,404; May 14; Sp. p. 2909; Gaz. vol. 178; p. 482.
Merritt, Joseph, assignor of one-fourth to W. A. Lorenz, one-fourth to W. H. Honiss, Hartford, Conn., and one-half to Beech-Nut Packing Company, Canajoharie, N. Y. Making gaskets. No. 1,049,255; Dec. 31; Gaz. vol. 185; p. 1330.
Merritt, Louis G., Lockport, N. Y. Veneer-drying apparatus. No. 1,022,690; Apr. 9; Sp. p. 1991; Gaz. vol. 177; p. 345.
Merritt, Matthew M., Middleton, Mass., assignor, by mesne assignments, to General Electric Company. Incandescent lamp. No. 1,034,722; Aug. 6; Gaz. vol. 181; p. 107.
Merritt, Mortimer G., assignor to Rome Metallic Bedstead Company, Rome, N. Y. Truck. No. 1,017,160; Feb. 13; Sp. p. 2070; Gaz. vol. 175; p. 356.
Merritt, Walter H. (See Morris and Merritt.)
Merrow, Edgar L. (See O'Connell, James P., assignor.)
Merrow, Joseph M., Hartford, Conn. Crochet-machine. No. 1,045,163; Nov. 26; Gaz. vol. 184; p. 826.
Merrow Machine Company, The. (See Stedman, William H., assignor.)
Merry, Benjamin P., Stryker, Ohio. Animal-muzzle. No. 1,042,022; Oct. 22; Gaz. vol. 183; p. 896.
Merry, Charles L., Kansas City, Mo. Lens-mount. No. 1,034,391; July 30; Gaz. vol. 180; p. 1362.
Merry, Charles L., Kansas City, Mo. Lens-measuring instrument. No. 1,043,954; Nov. 12; Gaz. vol. 184; p. 351.
Merry, William F., *et al.* (See Neville, Harry, assignor.)
Merryfield, Thomas E., Atwood, Colo. Grain separator and cleaner. No. 1,032,230; July 9; Gaz. vol. 180; p. 519.
Merryman, Clarence E., Anderson, Ind. Metallic thermometer. No. 1,020,045; Mar. 12; Sp. p. 2210; Gaz. vol. 176; p. 381.
Mershon, Claude R., and W. E. Redner, Kansas City, Mo. Spring-axle for cycles. No. 1,042,136; Oct. 22; Gaz. vol. 183; p. 933.
Mershon, Edward C., Saginaw, assignor to Wm. B. Mershon & Co., Carrollton, Mich. Gage for straight-edges. No. 1,017,639; Feb. 13; Sp. p. 3069; Gaz. vol. 175; p. 517.
Mershon, Edward C., Saginaw, assignor to Wm. B. Mershon & Co., Carrollton, Mich. Saw-set. No. 1,041,321; Oct. 15; Gaz. vol. 183; p. 624.
Mershon, Ralph D., New York, N. Y. Making articles of argillaceous materials. No. 1,034,815; Aug. 6; Gaz. vol. 181; p. 140.
Mertens, Siegfried, Cologne, Germany. Apparatus for drying lignite. No. 1,047,969; Dec. 24; Gaz. vol. 185; p. 852.
Merton, Thomas D., Grove Mill, Watford, assignor of one-half to H. M. Ridge, London, England. Roasting-furnace. No. 1,022,961; Apr. 9; Sp. p. 2588; Gaz. vol. 177; p. 439.
Merwin, Byron E., and E. P. Doyle, Wheaton, Ill. Safety train-order holder. No. 1,043,337; Nov. 5; Gaz. vol. 184; p. 105.
Merwin, George H., Milford, Conn. Lubricating-trolley. No. 1,037,507; Sept. 3; Gaz. vol. 182; p. 113.
Merwin, George M., Berwyn, Ill., assignor to International Harvester Company. Corn husker and shredder. No. 1,017,783; Feb. 20; Sp. p. 3433; Gaz. vol. 175; p. 604.
Merwin, John C., and J. W. Donovan, assignors to National Blank Book Company, Holyoke, Mass. Appliance for supplying ribbon gold to rotary-disk gilding-tools. No. 1,029,308; June 11; Sp. p. 2679; Gaz. vol. 179; p. 454.
Merz, Theodore C., assignor of one-half to S. E. Heineman, Detroit, Mich. Vehicle-curtain. No. 1,044,900; Nov. 19; Gaz. vol. 184; p. 707.
Mesinger, Frederick, New York, N. Y. Saddle for motorcycles. No. 1,036,877; Aug. 27; Gaz. vol. 181; p. 942.
Mesinger, Frederick, New York, N. Y. Saddle for motorcycles. No. 1,045,999; Dec. 3; Gaz. vol. 185; p. 68.
Mesinger, Henry, New York, N. Y. Saddle for motorcycles. No. 1,037,287; Sept. 3; Gaz. vol. 182; p. 36.
Mesnard, Gilbert R., Chicago, Ill. Pliers. No. 1,021,372; Mar. 26; Sp. p. 5006; Gaz. vol. 176; p. 914.
Messacar, William E., assignor to The Apex Horseshoe Co., Albion, Mich. Horseshoe. No. 1,030,478; June 25; Sp. p. 5283; Gaz. vol. 179; p. 937.
Messenger, Isaiah L., De Ruyter, assignor to R. D. Burdick and L. C. Saunders, Lincklaen Center, N. Y. Screw-driver. No. 1,027,877; May 28; Sp. p. 6142; Gaz. vol. 178; p. 1054.
Messer, Vladimir V., Los Angeles, Cal. Reinforced-concrete pipe. No. 1,013,302; Jan. 2; Sp. p. 479; Gaz. vol. 174; p. 75.
Messer, Vladimir V., assignor to Fellows Direct Power Transmission Co., Los Angeles, Cal. Variable-speed power transmission. No. 1,045,582; Nov. 26; Gaz. vol. 184; p. 975.
Messick, Charles, Hackensack, N. J. I-beam-track-switching device. No. 1,014,503; Jan. 9; Sp. p. 3104; Gaz. vol. 174; p. 515.
Messick, John C., assignor of one-third to R. G. Jones and one-third to W. F. Jones, San Rafael, Cal. Pneumatic door-lock. No. 1,038,624; Sept. 17; Gaz. vol. 182; p. 557.
Messick, William L., Irvington, Va. Ship's davit and means for operating the same. No. 1,021,545; Mar. 26; Sp. p. 5416; Gaz. vol. 176; p. 975.
Messimer, Charles W. (See Olmstead and Messimer.)
Messina, Joseph, New Orleans, La. Flue or draft motor. No. 1,013,798; Jan. 2; Sp. p. 1548; Gaz. vol. 174; p. 246.
Messinger, Jacob H. (See Gold and Messinger.)
Messiter, Edwin H., Brooklyn, N. Y., assignor to Electric Weighing Company, New York, N. Y. Integrating mechanism. No. 1,014,604; Jan. 9; Sp. p. 3305; Gaz. vol. 174; p. 549.
Messler, Matie C. (See Wattles, Luther H., assignor.)

Alphabetical list of patentees—Continued.

Messner, Christian, Hibbing, Minn. Measure. No. 1,022,749; Apr. 9; Sp. p. 2146; Gaz. vol. 177; p. 368.
Messter, Oskar, Berlin, Germany. Toy kinematograph. No. 1,020,999; Mar. 26; Sp. p. 4241; Gaz. vol. 176; p. 788.
Mesta Machine Company. (See Iversen, Lorenz, assignor.)
Mesta Machine Company. (See Neave, Andrew A., assignor.)
Mestas, José V., Mexico, Mexico. Metallic mattress. No. 1,019,510; Mar. 5; Sp. p. 1162; Gaz. vol. 176; p. 171.
Mestayer, Henry. (See Lawrence, Robert M., assignor.)
Mesturino, Giuseppe A., Turin, Italy. Composition of matter for fireproofing and other purposes. No. 1,030,909; July 2; Gaz. vol. 180; p. 20.
Metal, Max H., New York, N. Y. Coin-registering case or receptacle. No. 1,032,760; July 16; Gaz. vol. 180; p. 745.
Metal Sectional Furniture Company. (See Manny, Fred L., assignor.)
Metal Specialties Manufacturing Company. (See Gilbough, Benjamin G., assignor.)
Metall-Industrie Schönebeck A. G. (See Ehmsen, Carl F., assignor.)
Metallbank & Metallurgische Gesellschaft A. G. (See Bittmann, Heinrich, assignor.)
Metallic Barrel Company, The. (See Brown, Louis O., assignor.)
Metallic Flexible Hose Company. (See Wolf and Governale, assignors.)
Metallpapier-Broncefarben-Blattmetallwerke Aktiengesellschaft. (See Beer, Hans, assignor.)
Metallurgical Research Company. (See Rockey and Eldridge, assignors.)
Metals Welding Company, The. (See Harris, John, assignor.)
Metcalf, Charles W., San Diego, Cal. Pipe-tapping means. No. 1,016,026; Jan. 30; Sp. p. 6445; Gaz. vol. 174; p. 1122.
Metcalf, George H., Wilkinson, assignor of one-half to J. A. Nunnery, Rosetta, Miss. Wheel. No. 1,021,618; Mar. 26; Sp. p. 5557; Gaz. vol. 176; p. 998.
Metcalf, Frank K. (See Jones, Metcalf, and Wear.)
Metcalf, Murray B., Cowanesque, Pa. Reversible draft. No. 1,025,006; Apr. 30; Sp. p. 7013; Gaz. vol. 177; p. 1232.
Metcalfe, Garfield. (See Metcalfe, John T. and G.)
Metcalfe, John T. and G., Quincy, Pa. Gearing for traction-engines. No. 1,048,464; Dec. 24; Gaz. vol. 185; p. 1019.
Metcalfe, John T. and G., assignors to Quincy Engine Company, Quincy, Pa. Gasolene spray or vaporizer valve. No. 1,034,273; July 30; Gaz. vol. 180; p. 1321.
Métérié, Emile J. (See Fogarty, James H., assignor.)
Metropolitan Electric Mfg. Co. (See Newton, William J., assignor.)
Metropolitan Engineering Company. (See Palmer, Granville E., assignor.)
Metropolitan Paving Brick Company, The. (See Barbour, James G., assignor.)
Metropolitan Sewing Machine Company. (See Weis, John P., assignor.)
Metropolitan Sewing Machine Company. (See Weis and Krug, assignors.)
Metten, John F., Philadelphia, Pa., assignor to The Wm. Cramp & Sons Ship & Engine Building Company. Gland piping system. No. 1,042,810; Oct. 29; Gaz. vol. 183; p. 1192.
Metten, John F., Philadelphia, Pa., assignor to Wm. Cramp & Sons Ship & Engine Building Company. Apparatus for the balancing of rotatable bodies. No. 1,047,677; Dec. 17; Gaz. vol. 185; p. 726.
Metten, John F., Philadelphia, Pa., assignor to The Wm. Cramp & Sons Ship & Engine Building Company. System of steam-driving. No. 1,047,908; Dec. 17; Gaz. vol. 185; p. 805.
Metten, John F., Philadelphia, Pa., assignor to The Wm. Cramp & Sons Ship & Engine Building Company. Elastic-fluid turbine. No. 1,048,564; Dec. 31; Gaz. vol. 185; p. 1091.
Metz, Charles H., Spokane, Wash. Belt-lacing tool. No. 1,020,214; Mar. 12; Sp. p. 2581; Gaz. vol. 176; p. 438.
Metz, Charles H., Spokane, Wash. Belt-punch. No. 1,020,302; Mar. 12; Sp. p. 2747; Gaz. vol. 176; p. 466.
Metz, Herman, and E. J. Bowles, Clinton, Ill. Sheet-metal-beading machine. No. 1,039,776; Oct. 1; Gaz. vol. 183; p. 37.
Metz, Silas W., Beaver Falls, Pa. Miner's lamp. No. 1,038,930; Sept. 17; Gaz. vol. 182; p. 664.
Metzger, Amandus, Schenectady, N. Y., assignor to General Electric Company. Welding-machine. No. 1,029,389; June 11; Sp. p. 2887; Gaz. vol. 179; p. 482.
Metzger, David, New York, N. Y. Pompon. No. 1,014,408; Jan. 9; Sp. p. 2937; Gaz. vol. 174; p. 487.
Metzger, David, New York, N. Y. Making imitation-feather articles. No. 1,024,272; Apr. 23; Sp. p. 5400; Gaz. vol. 177; p. 945.
Metzger, Ferdinand F., assignor to Williams, Brown and Earle, Inc., Philadelphia, Pa. Blue-printing machine. No. 1,022,039; Apr. 2; Sp. p. 611; Gaz. vol. 177; p. 97.
Metzger, Gaston, Kansas City, Mo. Polishing-brush. No. 1,029,077; June 11; Sp. p. 2178; Gaz. vol. 179; p. 375.
Metzger, Sherman E., Silver Lake, Ind. Coupling. No. 1,033,187; July 23; Gaz. vol. 180; p. 926.
Metzger, William A., Red Hook, N. Y. Milk-pail cover. No. 1,045,054; Nov. 19; Gaz. vol. 184; p. 761.
Meuche, Theodore, *et al.* (See Kohnle, Frederick, assignor.)
Meurling, Harry F. V., Kelowna, British Columbia, Canada. Hydrant. No. 1,036,674; Aug. 27; Gaz. vol. 181; p. 875.
Meute, John, Jr., Moon Run, Pa. Wire-hanger. No. 1,043,713; Nov. 5; Gaz. vol. 184; p. 235.
Meves, Gustav N., Davenport, Iowa. Operating mechanism for power-actuated washing-machines. No. 1,022,691; Apr. 9; Sp. p. 2001; Gaz. vol. 177; p. 346.
Mewborne, Robert G., Louisville, Ky., assignor to The Kentucky Tobacco Product Company. Tobacco-drying and nicotin-extracting process. No. 1,039,987; Oct. 1; Gaz. vol. 183; p. 105.
Meyenburg, Konrad V. von, Zurich, assignor to Motorkultur A. G., Basel, Switzerland. Machine for mechanical tillage. No. 1,018,843; Feb. 27; Sp. p. 5796; Gaz. vol. 175; p. 1001.
Meyer, Adolph, assignor of one-half to P. Weidemann, St. Louis, Mo. Combination trap and fixture. No. 1,039,169; Sept. 24; Gaz. vol. 182; p. 757.
Meyer, Adolph E., Webster Groves, and F. Wetteroth, St. Louis, Mo. Handle. No. 1,025,416; May 7; Sp. p. 678; Gaz. vol. 178; p. 107.
Meyer, Alfred F. (See Meyer, Ernest L. and A. F.)
Meyer, Barney, assignor to Elevator Supply & Repair Company, Chicago, Ill. Pneumatically-operated elevator signal system. No. 1,035,802; Aug. 13; Gaz. vol. 181; p. 503.
Meyer, Ernest L. and A. F., Hays, Kans. Folding crate. No. 1,037,162; Aug. 27; Gaz. vol. 181; p. 1037.
Meyer, Fanny J. (See Schodde, George W., assignor.)
Meyer, Felix, Aix-la-Chapelle, Germany. Razor. No. 1,015,575; Jan. 23; Sp. p. 5487; Gaz. vol. 174; p. 939.
Meyer, Ferdinand P., New York, N. Y. Sight-square. No. 1,013,799; Jan. 2; Sp. p. 1549; Gaz. vol. 174; p. 246.
Meyer, Frank W., assignor to The Oshkosh Trunk Company, Oshkosh, Wis. Trunk. No. 1,035,220; Aug. 13; Gaz. vol. 181; p. 304.
Meyer, Frederick L., assignor of one-half to G. B. Uthman, Scranton, Pa. Portable horse-feeding trough. No. 1,049,256; Dec. 31; Gaz. vol. 185; p. 1331.
Meyer, Georg, assignor to Siemens-Schuckert Werke, G. m. b. H., Berlin, Germany. Conductor for electric tugs. No. 1,034,022; July 30; Gaz. vol. 180; p. 1234.
Meyer, George A., St. Paul, Minn. Dipping-tank. No. 1,023,387; Apr. 16; Sp. p. 3493; Gaz. vol. 177; p. 623.
Meyer, George S., Newburgh, N. Y. Combined calk-plates and carrier. No. 1,037,163; Aug. 27; Gaz. vol. 181; p. 1038.
Meyer, Gerhard, Shreveport, La. Packing-shoe. No. 1,018,333; Feb. 20; Sp. p. 4627; Gaz. vol. 175; p. 795.
Meyer-Henniger, Firm of Gustav A. (See Kabitzsch, Herman O., assignor.)
Meyer, Henry A., assignor to The Wolf Electrical Promoting Company, Cincinnati, Ohio. Cloth-cutter. No. 1,047,429; Dec. 17; Gaz. vol. 185; p. 636.
Meyer, John J., Yonkers, N. Y. Siphon-valve for flushing-tanks. No. 1,042,365; Oct. 22; Gaz. vol. 183; p. 1007.
Meyer, John J., Yonkers, N. Y. Valve. No. 1,044,408; Nov. 12; Gaz. vol. 184; p. 506.
Meyer, John M., assignor of two-thirds to The Sayers and Scovill Company, Cincinnati, Ohio. Means for securing curved shaft-heels to shaft-irons. No. 1,032,075; July 9; Gaz. vol. 180; p. 465.
Meyer, Joseph F., and G. Leppenat, Pittsburgh, Pa. Leveling device for billiard and pool tables. No. 1,025,707; May 7; Sp. p. 1324; Gaz. vol. 178; p. 206.
Meyer, Julius. (See Meyer, Willy and J.)
Meyer, Julius, New York, N. Y., assignor to G. F. Spencer, Newark, N. J. Ventilated reflector. No. 1,030,910; July 2; Gaz. vol. 180; p. 20.
Meyer, Julius A., St. Louis, Mo. Foot-operated bass-drum and cymbal beater. No. 1,016,510; Feb. 6; Sp. p. 626; Gaz. vol. 175; p. 96.
Meyer, Karl, assignor to Firm of J. W. Saltzer, Hanover, Germany. Apparatus for drawing or marking lines on wearing-apparel. No. 1,046,316; Dec. 3; Gaz. vol. 185; p. 180.
Meyer, Louis C., Davenport, Iowa. Pot-scraper. No. 1,018,844; Feb. 27; Sp. p. 5799; Gaz. vol. 175; p. 1001.
Meyer, Ludwig F. (See Lyons, Thomas, assignor.)
Meyer, Paul, assignor of one-half to M. Nolden, Solingen, Germany. Screw-wrench. No. 1,015,504; Jan. 23; Sp. p. 5331; Gaz. vol. 174; p. 914.
Meyer, Paul F., Gary, Ind. Folding pedestal. No. 1,024,453; Apr. 23; Sp. p. 5764; Gaz. vol. 177; p. 1002.
Meyer, Peter. (See Andres and Meyer.)
Meyer, Peter, Calmar, Iowa. Quaking-grass destroyer. No. 1,018,513; Feb. 27; Sp. p. 5100; Gaz. vol. 175; p. 889.
Meyer, Peter, Cologne-Nippes, and K. Nuese, Altona, Germany; said Meyer assignor to said Nuese. Type-writing machine. No. 1,030,005; June 18; Sp. p. 4215; Gaz. vol. 179; p. 731.

Alphabetical list of patentees—Continued.

Meÿer, Robert, Mülheim-Ruhr, Germany. Automatic plate-valve. No. 1,019,683; Mar. 5; Sp. p. 1478; Gaz. vol. 176; p. 228.
Meyer, Rudolph, New York, N. Y. Hat-pin guard. No. 1,014,838; Jan. 16; Sp. p. 3907; Gaz. vol. 174; p. 662.
Meÿer, Wilhelm, Silberhütte, Anhalt, Germany. Apparatus for calming sea-waves. No. 1,043,125; Nov. 5; Gaz. vol. 184; p. 27.
Meyer, William A., Chicago, Ill. Dust-catching attachment for brooms. No. 1,024,454; Apr. 23; Sp. p. 5765; Gaz. vol. 177; p. 1003.
Meyer, William C., Boston, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Shoe-sewing machine. No. 1,017,440; Feb. 13; Sp. p. 2674; Gaz. vol. 175; p. 453.
Meyer, William C., Boston, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Tension mechanism for sewing-machines. No. 1,030,742; June 25; Sp. p. 6051; Gaz. vol. 179; p. 1031.
Meyer, William C., Boston, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Tension device for sewing-machines. No. 1,030,743; June 25; Sp. p. 6056; Gaz. vol. 179; p. 1032.
Meyer, William C., Boston, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Bobbin-holding device for lock-stitch sewing-machines. No. 1,048,565; Dec. 31; Gaz. vol. 185; p. 1092.
Meyer, William C., Boston, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Shoe-sewing machine. No. 1,048,719; Dec. 31; Gaz. vol. 185; p. 1146.
Meyer, Willy and J., New York, N. Y., assignors to People of the United States. Apparatus for conducting thoracic operations. No. 1,013,800; Jan. 2; Sp. p. 1551; Gaz. vol. 174; p. 247.
Meyercord, George R., Chicago, Ill. Decorating enameled metal. No. 1,033,821; July 30; Gaz. vol. 180; p. 1162.
Meyering, Julius V., assignor to Grube-Meyering Trunk Co., Chicago, Ill. Clothes compressing and holding attachment for trunks. No. 1,045,309; Nov. 26; Gaz. vol. 184; p. 877.
Meyers, Roddy F., Troy, Ill. Stacker. No. 1,030,420; June 25; Sp. p. 5143; Gaz. vol. 179; p. 916.
Meyers, Roy J., assignor of one-half to J. R. Pearce, Florence, Ariz. Trolley-head. No. 1,032,231; July 9; Gaz. vol. 180; p. 519.
Meyers, Willard F., Long Island City, N. Y. Stone-sawing machine. No. 1,017,784; Feb. 20; Sp. p. 3435; Gaz. vol. 175; p. 604.
Meyers, Willard F., Long Island City, N. Y. Stone-saw. No. 1,022,692; Apr. 9; Sp. p. 2003; Gaz. vol. 177; p. 346.
Meyers, Willard F., Long Island City, N. Y. Car-holder. No. 1,022,693; Apr. 9; Sp. p. 2006; Gaz. vol. 177; p. 347.
Meyers, Willard F., New York, N. Y. Stoneworking-machine. No. 1,027,558; May 28; Sp. p. 5412; Gaz. vol. 178; p. 949.
Meyerson, Morris, Jacksonville, Fla. Cigar-cutter. No. 1,043,338; Nov. 5; Gaz. vol. 184; p. 105.
Meyrowitz Manufacturing Co., The. (See Cohen, Ira R., assignor.)
Meyrowitz Manufacturing Co. (See Higgins, Frederick L., assignor.)
Meyrowitz, Simon, New York, N. Y. Refuse-receptacle. No. 1,040,565; Oct. 8; Gaz. vol. 183; p. 332.
Meyst, William H., Champaign, Ill. Awning structure. No. 1,030,421; June 25; Sp. p. 5150; Gaz. vol. 179; p. 916.
Mez, Gustav, Berlin, Germany. Type-writing machine. No. 1,016,351; Feb. 6; Sp. p. 259; Gaz. vol. 175; p. 40.
Mezger, Frederick C., Jr., and V. Van Venschoten, Gatun, Canal Zone. Rail-bumper. No. 1,049,310; Dec. 31; Gaz. vol. 185; p. 1350.
Mezza, Antonio B., Pleasanton, Cal. Rake. No. 1,013,556; Jan. 2; Sp. p. 1014; Gaz. vol. 174; p. 162.
Mica Insulator Company. (See Jefferson, Charles W., assignor.)
Miceusz, Ludwik, Holden, W. Va. Wrench. No. 1,048,994; Dec. 31; Gaz. vol. 185; p. 1241.
Michael, Clement W., assignor to J. I. Case Plow Works, Racine, Wis. Disk harrow. No. 1,026,760; May 21; Sp. p. 3673; Gaz. vol. 178; p. 637.
Michael, Ernest H. (See Lovell and Michael.)
Michael, James L., Upton, Wyo. Strangler for horses. No. 1,019,684; Mar. 5; Sp. p. 1479; Gaz. vol. 176; p. 229.
Michael, William H. (See Kenner, Michael, and Burton.)
Michaelson, Adam M., *et al.* (See Michaelson, James M., assignor.)
Michaelsen, Charles O., Omaha, Nebr. Mineral-concentrator. No. 1,027,349; May 21; Sp. p. 4980; Gaz. vol. 178; p. 839.
Michaelsen, Charles O., Omaha, Nebr. Ore-screen. No. 1,040,251; Oct. 1; Gaz. vol. 183; p. 194.
Michaelson, James M., assignor of one-fourth to J. R. Wertman and three-fourths to A. M. Michaelson, Geneva, N. Y. Combined train-pipe coupling and valve. No. 1,013,418; Jan. 2; Sp. p. 728; Gaz. vol. 174; p. 115.
Michaelson, Joseph M., Minneapolis, Minn. Muffler. No 1,038,931; Sept. 17; Gaz. vol. 182; p. 664.
Michaelson, Joseph M., assignor, by mesne assignments, to Minneapolis Motor Company, Minneapolis, Minn. Motor-cycle frame. No. 1,047,430; Dec. 17; Gaz. vol. 185; p. 637.
Michaelson, Joseph M., assignor, by mesne assignments, to Minneapolis Motor Company, Minneapolis, Minn. Motor-cycle frame. No. 1,047,431; Dec. 17; Gaz. vol. 185; p. 637.
Michand, Elmer J., Willimantic, Conn. Lathe dog. No. 1,038,409; Sept. 10; Gaz. vol. 182; p. 448.
Michau, Felix, Paris, France. Flying-machine. No. 1,018,205; Feb. 20; Sp. p. 4381; Gaz. vol. 175; p. 752.
Michaud, Onesime E., St. Louis, Mo. Axle. No. 1,031,080; July 2; Gaz. vol. 180; p. 82.
Michel, Frederick G., Albany, N. Y. Window-fastener. No. 1,024,273; Apr. 23; Sp. p. 5401; Gaz. vol. 177; p. 945.
Michel, Isac, assignor to Michelius G. m. b. H., Frankfort-on-the-Main, Germany. Machine for opening envelops. No. 1,013,201; Jan. 2; Sp. p. 228; Gaz. vol. 174; p. 38.
Michel, Paul, Fils, Troyes, France. Sawmill set-works. No. 1,016,759; Feb. 6; Sp. p. 1176; Gaz. vol. 175; p. 181.
Michelin, André, Paris, France. Manufacturing anti-slipping tires for motors and other vehicles. No. 1,018,626; Feb. 27; Sp. p. 5340; Gaz. vol. 175; p. 927.
Michelin, André J., Paris, assignor to Michelin et Cie, Clermont-Ferrand, France. Demountable rim for vehicle-tires. No. 1,043,714; Nov. 5; Gaz. vol. 184; p. 236.
Michelin et Cie. (See Michelin, André J., assignor.)
Michelin & Cie. (See Wolff, Marc, assignor.)
Michelius G. m. b. H. (See Michel, Isac, assignor.)
Michels, George, Astoria, N. Y. Disinfecting device. No. 1,024,591; Apr. 30; Sp. p. 6154; Gaz. vol. 177; p. 1087.
Michelsen, Julius, *et al.* (See Miller, Walter J., assignor.)
Michelsen, Waldemar, Jatibonico, Cuba. Centrifugal machine. No. 1,040,373; Oct. 8; Gaz. vol. 183; p. 265.
Michelson, Albert A., Chicago, Ill. Range-finder. No. 1,030,846; June 25; Sp. p. 6424; Gaz. vol. 179; p. 1070.
Michener, Eugene S., New Castle, Pa. Means for removing carbon from engine-cylinders. No. 1,022,040; Apr. 2; Sp. p. 616; Gaz. vol. 177; p. 97.
Michener, Eugene S., New Castle, Pa. Internal-combustion engine. No. 1,037,953; Sept. 10; Gaz. vol. 182; p. 295.
Michener, Thurman J., Charleroi, Pa. Toy. No. 1,023,324; Apr. 16; Sp. p. 3379; Gaz. vol. 177; p. 603.
Michigan Metal Products Company. (See Vaughan, Thomas M., assignor.)
Michigan Stove Company, The. (See Dailey, Jesse V., assignor.)
Michler, Robert W. (See McGowan and Michler.)
Michmershuizen, Edward. (See McCarthy and Michmershuizen.)
Michmershuizen, Judson. (See McCarthy and Michmershuizen.)
Michod, Charles L., assignor of one-half to Llewellyn Iron Works, Los Angeles, Cal. Armored well-screen. No. 1,019,986; Mar. 12; Sp. p. 2091; Gaz. vol. 176; p. 360.
Mickelson, Carl P., Mason, Mich. Portable refrigerating-case. No. 1,042,249; Oct. 22; Gaz. vol. 183; p. 970.
Micon, David, assignor of one-half to B. Goldman, Chicago, Ill. Spring-mattress. No. 1,029,881; June 18; Sp. p. 3968; Gaz. vol. 179; p. 690.
Midby, George T., Plentywood, Mont. Heater. No. 1,046,317; Dec. 3; Gaz. vol. 185; p. 181.
Middaugh, Carlisle H., Lawrenceville, Pa. Separating-case. No. 1,030,317; June 25; Sp. p. 4923; Gaz. vol. 179; p. 878.
Middleton, David A., Logansport, Ind. Binder for tablets. No. 1,046,481; Dec. 10; Gaz. vol. 185; p. 276.
Middleton, David J., Kingston, R. M. Keefer, Edwardsville, and J. F. Ballamy, Larksville, Pa. Coal-separator. No. 1,040,374; Oct. 8; Gaz. vol. 183; p. 266.
Middleton, Richard. (See Carpenter and Middleton.)
Midgley, Charles A., Ilkley, assignor to E. Brunner, Manchester, England. Boiler-furnace. No. 1,036,299; Aug. 20; Gaz. vol. 181; p. 714.
Midgley, Ephraim A., and M. H. Scarlet, Salt Lake City, Utah. Reaming-tool. No. 1,049,125; Dec. 31; Gaz. vol. 185; p. 1287.
Midgley, Frederick W., Jersey City, N. J., assignor to J. Firth, New York, N. Y. Wave-meter. No. 1,018,769; Feb. 27; Sp. p. 5650; Gaz. vol. 175; p. 976.
Midland Ores and Patent Company. (See Baxeres de Alzugaray, José, assignor.)
Mieden, Adam, Deadwood, Cal. Safety-envelop. No. 1,013,557; Jan. 2; Sp. p. 1014; Gaz. vol. 174; p. 163.
Mieden, Adam, Deadwood, Cal. Pocket memorandum-book. No. 1,025,007; Apr. 30; Sp. p. 7014; Gaz. vol. 177; p. 1232.
Miehle Printing Press and Manufacturing Company. (See Droitcour, Michael A., assignor.)
Miehle Printing Press & Manufacturing Company, The. (See Goldberg, Hyman E., assignor.)
Miehle Printing Press and Manufacturing Company. (See Miehle, Robert, assignor.)
Miehle, Robert, Chicago, Ill. Fuel and water regulator for steam-generators. No. 1,026,693; May 21; Sp. p. 3522; Gaz. vol. 178; p. 614.

Alphabetical list of patentees—Continued.

Miehle, Robert, Chicago, Ill. Fuel and water regulator for steam-boilers. No. 1,026,761; May 21; Sp. p. 3675; Gaz. vol. 178; p. 638.
Miehle, Robert, assignor to Miehle Printing Press and Manufacturing Company, Chicago, Ill. Multicolor-printing press. No. 1,039,777; Oct. 1; Gaz. vol. 183; p. 37.
Mielke, Charles F., *et al.* (See Mielke and Sergent, assignors.)
Mielke, Henry W., and G. M. Sergent, assignors of one-fourth to G. F. Slocum and one-fourth to C. F. Mielke, Rochester, N. Y. Spark-arrester. No. 1,014,018; Jan. 9; Sp. p. 2083; Gaz. vol. 174; p. 349.
Mies, Frank P., Chicago, Ill. Air-tempering device. No. 1,027,141; May 21; Sp. p. 4580; Gaz. vol. 178; p. 770.
Mies, Frank P., Chicago, Ill. Ventilating device. No. 1,038,625; Sept. 17; Gaz. vol. 182; p. 558.
Mies, Frank P., Chicago, Ill., assignor to Plural System Ventilator Co. Electric heater. No. 1,038,410; Sept. 10; Gaz. vol. 182; p. 445.
Mies, Frank P., Chicago, Ill., assignor to The Plural System Ventilator Co. Heating and ventilating apparatus. No. 1,041,322; Oct. 15; Gaz. vol. 183; p. 624.
Miesen, Clarence F., Carrollton, Ky. Folding crate. No. 1,018,254; Feb. 20; Sp. p. 4483; Gaz. vol. 175; p. 769.
Mighell, Norman E., Marshalltown, Iowa. Surgical appliance. No. 1,041,138; Oct. 15; Gaz. vol. 183; p. 561.
Mighill, Thomas A., Cambridge, Mass. Apparatus for turning peat blocks. No. 1,015,390; Jan. 23; Sp. p. 5079; Gaz. vol. 174; p. 875.
Mighton, I. Elmer, *et al.* (See Thebaud, John E., assignor.)
Migliavacca, Henry B., Napa, Cal. Automatic check-valve for inflammable gases. No. 1,030,911; July 2; Gaz. vol. 180; p. 20.
Migliavacca, Sero, Bremerton, Wash. Chain-grip fastener. No. 1,039,778; Oct. 1; Gaz. vol. 183; p. 38.
Mihalj, Unoka, *et al.* (See Balazs, John, assignor.)
Mihok, Emery W., West Hammond, Ill. Flour bolter or dresser. No. 1,016,705; Feb. 6; Sp. p. 1070; Gaz. vol. 175; p. 164.
Mika, Joseph, Passaic, N. J. Safety-envelop. No. 1,033,606; July 23; Gaz. vol. 180; p. 1065.
Mikesell, William E., Albany, Ill. Cultivator. No. 1,028,053; May 28; Sp. p. 6499; Gaz. vol. 178; p. 1112.
Mikkelson, Ole J., Ferryville, Wis. Tire chain and guard. No. 1,018,206; Feb. 20; Sp. p. 4384; Gaz. vol. 175; p. 753.
Mikorey, Hans, Berlin, Germany, assignor to Lettrophones Limited, London, England. Talking-machine. No. 1,027,350; May 21; Sp. p. 4984; Gaz. vol. 178; p. 840.
Miks, Ambrose, Ganado, Tex. Tractor. No. 1,041,837; Oct. 22; Gaz. vol. 183; p. 834.
Miks, Walter, Mayfield, Kans. Alfalfa-feed cutter and grinder. No. 1,024,413; Apr. 23; Sp. p. 5680; Gaz. vol. 177; p. 989.
Milam, John H., *et al.* (See Goetzinger, Charles P., assignor.)
Milch, Jacob. (See Lowy and Milch.)
Milcinsky, Joseph. (See Firbas and Milcinsky.)
Milek, Frederick W., Sturgis, S. D. Metal-welding machine. No. 1,041,838; Oct. 22; Gaz. vol. 183; p. 834.
Miles, Adrian, Quartz, Mont. Ironing-board. No. 1,030,006; June 18; Sp. p. 4218; Gaz. vol. 179; p. 731.
Miles, Aquilla. (See Everhart, Charles O., assignor.)
Miles, Casper W., Anderson township, Hamilton county, Ohio, assignor to S. S. Miles, Greensboro, N. C. Air and gas compressor. No. 1,029,309; June 11; Sp. p. 2682; Gaz. vol. 179; p. 455.
Miles, Clyde L. (See Anderson and Miles.)
Miles, E. C. (See Whitfield, James F., assignor.)
Miles, Henry D., assignor to Buffalo Foundry and Machine Company, Buffalo, N. Y. Heating and mixing apparatus. No. 1,039,779; Oct. 1; Gaz. vol. 183; p. 38.
Miles, James E., Spokane, Wash. Offset device. No. 1,016,082; Jan. 30; Sp. p. 6583; Gaz. vol. 174; p. 1143.
Miles, John B., Philadelphia, Pa. Apparatus for removing moisture from air. No. 1,041,323; Oct. 15; Gaz. vol. 183; p. 625.
Miles, Marshal T., Chicago, Ill. Toe-weight. No. 1,049,126; Dec. 31; Gaz. vol. 185; p. 1288.
Miles Mnfg. Co., The. (See Whitney and Van Leuven, assignors.)
Miles, Nettie, Colona, Colo. Flower-pot stand. No. 1,043,622; Nov. 5; Gaz. vol. 184; p. 205.
Miles, Samuel A., Philadelphia, Pa. Engine. No. 1,023,670; Apr. 16; Sp. p. 4055; Gaz. vol. 177; p. 711.
Miles, Stephen S. (See Miles, Casper W., assignor.)
Miles, William C., Seattle, Wash. Combined shingle sawing and jointing machine. No. 1,039,312; Sept. 24; Gaz. vol. 182; p. 811.
Milewski, Marian, Carmel, N. Y. Hasp-lock. No. 1,027,878; May 28; Sp. p. 6143; Gaz. vol. 178; p. 1055.
Milewski, Marian, Carmel, N. Y. Telephone-holder. No. 1,029,390; June 11; Sp. p. 2890; Gaz. vol. 179; p. 483.
Miley, Michael, Sheffield township, Warren county, Pa. Hand-grip for scythes. No. 1,042,708; Oct. 29; Gaz. vol. 183; p. 1158.
Mill, Anton, Sr., and A. Mill, Jr., Cincinnati, Ohio, assignors to H. Heine, Chicago, Ill. Machine for grinding drills. No. 1,016,891; Feb. 6; Sp. p. 1441; Gaz. vol. 175; p. 224.
Millar, Charles I., Providence, R. I. Cross-strap connector. No. 1,019,820; Mar. 12; Sp. p. 1742; Gaz. vol. 176; p. 305.
Millar Electric Company. (See Millar, Robert M., assignor.)
Millar, George W., St. Louis, Mo. Pipe and cable coupling and casing therefor. No. 1,028,245; June 4; Sp. p. 409; Gaz. vol. 179; p. 58.
Millar, John, assignor of one-half to D. Campbell, Arlington, N. J. Cushion-wheel. No. 1,047,268; Dec. 17; Gaz. vol. 185; p. 580.
Millar, Peter K. (See Jones and Millar.)
Millar, Preston S. (See Sharp and Millar.)
Millar, Robert M., Chicago, Ill. Lamp-supporting device. No. 1,043,530; Nov. 5; Gaz. vol. 184; p. 174.
Millar, Robert M., Chicago, Ill. Automatic signal. No. 1,046,626; Dec. 10; Gaz. vol. 185; p. 327.
Millar, Robert M., assignor to Millar Electric Company, Chicago, Ill. Electric heater. No. 1,034,393; July 30; Gaz. vol. 180; p. 1363.
Millard, Dell E., Galesburg, Kans. Combined bag-holder and weighing-scale. No. 1,019,685; Mar. 5; Sp. p. 1481; Gaz. vol. 176; p. 229.
Millard, Frank B., Palisade, N. J. Photographic instrument. No. 1,037,035; Aug. 27; Gaz. vol. 181; p. 995.
Millard, William, assignor, by mesne assignments, to Aiball Manufacturing Company, New York, N. Y. Vending-machine. No. 1,013,674; Jan. 2; Sp. p. 1290; Gaz. vol. 174; p. 202.
Milleman, Jacob C., *et al.* (See De Bats, Louis H. J., assignor.)
Millen, James L., Lansing, Mich. Sanitary drinking-fountain. No. 1,020,303; Mar. 12; Sp. p. 2748; Gaz. vol. 176; p. 466.
Miller, Alfred K., Worcester, assignor of thirty one-hundredths to R. O. Ingram, Andover, and thirty one-hundredths to H. L. Wadsworth, Boston, Mass. Yarn-winding machine. No. 1,019,173; Mar. 5; Sp. p. 376; Gaz. vol. 176; p. 59.
Miller, Allen O. (See Miller, John K. and A. O.)
Miller, Alonzo. (See Koher, John D., assignor.)
Miller, Alvin. (See Miller, Christian J. and A.)
Miller, Andrew D., Johnstown, Pa. Nut-lock. No. 1,024,274; Apr. 23; Sp. p. 5402; Gaz. vol. 177; p. 946.
Miller, Andrew E., assignor to S. Himmel, Baltimore, Md. Display-rack. No. 1,023,789; Apr. 16; Sp. p. 4260; Gaz. vol. 177; p. 748.
Miller, Andrew E., assignor to S. Himmel, Baltimore, Md. Display-rack. No. 1,032,341; July 9; Gaz. vol. 180; p. 556.
Miller, Anna W., *et al.*, heirs-at-law. (See Webb, Samuel J.)
Miller, Arlington H. J., Bangor, Pa. Nut-lock and releasing device therefor. No. 1,019,686; Mar. 5; Sp. p. 1482; Gaz. vol. 176; p. 229.
Miller, Austin. (See Fuller and Miller.)
Miller, Benjamin F., Ulysses, Idaho. Lamp-cord reel. No. 1,027,663; May 28; Sp. p. 5627; Gaz. vol. 178; p. 982.
Miller, Benjamin F., Oxnard, Cal. Plug-tobacco box. No. 1,047,269; Dec. 17; Gaz. vol. 185; p. 580.
Miller, Benjamin F., Jr. (See Tanner, Traugotte A., assignor.)
Miller, Byron W., Colorado Springs, Colo. Vehicle-wheel. No. 1,023,025; Apr. 9; Sp. p. 2701; Gaz. vol. 177; p. 461.
Miller, Carl H., Cleveland, Ohio. Burner for kitchen-ranges. No. 1,040,375; Oct. 8; Gaz. vol. 183; p. 266.
Miller, Carl H., Cleveland, Ohio. Valve for gas-ranges. No. 1,040,376; Oct. 8; Gaz. vol. 183; p. 266.
Miller, Charles, assignor to Gundlach-Manhattan Optical Company, Rochester, N. Y. Clamping device for lens-holders. No. 1,042,023; Oct. 22; Gaz. vol. 183; p. 897.
Miller, Charles A. (See Flanagan and Miller.)
Miller, Charles A., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Time-movement. No. 1,043,531; Nov. 5; Gaz. vol. 184; p. 174.
Miller, Charles E., assignor of one-third to J. M. Keenan and one-third to E. H. Filbert, Reading, Pa. Gasolene-gage for automobiles. No. 1,047,548; Dec. 17; Gaz. vol. 185; p. 679.
Miller, Charles J., Minneapolis, Minn. Store-service apparatus. No. 1,030,318; June 25; Sp. p. 4925; Gaz. vol. 179; p. 879.
Miller, Charles K., assignor of one-third to R. J. Coleman and one-third to W. A. Martin, Waxahachie, Tex. Mold-board. No. 1,036,675; Aug. 27; Gaz. vol. 181; p. 876.
Miller, Charles L., South Norwood, Ohio, assignor to United Shoe Machinery Company, Paterson, N. J. Sole-laying machine. No. 1,018,069; Feb. 20; Sp. p. 4098; Gaz. vol. 175; p. 705.
Miller, Christian J. and A., Smithville, Ohio. Fruit-pulping machine. No. 1,047,970; Dec. 24; Gaz. vol. 185; p. 853.
Miller, Christian R. (See Bowman, Elhanan, assignor.)
Miller, Clarence M., Mount Pleasant, Iowa. Pitch-board. No. 1,035,379; Aug. 13; Gaz. vol. 181; p. 362.
Miller, Clyde B. (See King, Jacob H., assignor.)
Miller, Cornelius, assignor to M. Lenahan, Providence, R. I. Device for threading shuttles. No. 1,038,777; Sept. 17; Gaz. vol. 182; p. 611.

Alphabetical list of patentees—Continued.

Miller, D D, and D. E. Rowland, Canton, Ohio; said Rowland assignor to said Miller. Trip for hay and other carriers. No. 1,014,019; Jan. 9; Sp. p. 2084; Gaz. vol. 174; p. 350.
Miller, Dalton. (See Vordemfelde, Fred L., assignor.)
Miller, Daniel H., Fort Worth, Tex. Wire fence. No. 1,019,071; Mar. 5; Sp. p. 140; Gaz. vol. 176; p. 23.
Miller, David, Schenectady, N. Y., assignor to General Electric Company. Coil-former. No. 1,032,925; July 16; Gaz. vol. 180; p. 798.
Miller, David C., Mount Braddock, Pa. Metallic tie and rail-fastener. No. 1,015,056; Jan. 16; Sp. p. 4385; Gaz. vol. 174; p. 736.
Miller, David R., *et al.* (See Kelley, John W., assignor.)
Miller, Du Brul & Peters Mfg. Co., The. (See Du Brul, Davila S., assignor.)
Miller, Du Brul & Peters Mfg. Co., The. (See Kottusch, Emil W., assignor.)
Miller, Eben, Fredericton, New Brunswick, Canada. Mud-guard support. No. 1,024,644; Apr. 30; Sp. p. 6274; Gaz. vol. 177; p. 1104.
Miller, Edward C. (See Otto, Albert A., assignor.)
Miller, Edward F., Newton, assignor to Crosby Steam Gage and Valve Company, Boston, Mass. Safety-valve. No. 1,020,921; Mar. 19; Sp. p. 4056; Gaz. vol. 176; p. 709.
Miller, Edward W. (See Gaynor, Miller, and Remier.)
Miller, Edwin, assignor to Miller Lighting Company, Inc., Detroit, Mich. Carbid-feeder. No. 1,026,594; May 14; Sp. p. 3284; Gaz. vol. 178; p. 543.
Miller, Edwin, assignor to Miller Lighting Company, Inc., Detroit, Mich. Reserve carbid-receptacle. No. 1,038,932; Sept. 17; Gaz. vol. 182; p. 664.
Miller, Edwin C., Sabina, Ohio. Ice-crusher. No. 1,048,332; Dec. 24; Gaz. vol. 185; p. 974.
Miller, Edwin H., Los Angeles, Cal. Tape-line spring-scale. No. 1,014,839; Jan. 16; Sp. p. 3908; Gaz. vol. 174; p. 662.
Miller, Edwin H., assignor of one-half to J. W. Melville, Los Angeles, Cal. Crank mechanism. No. 1,024,139; Apr. 23; Sp. p. 5102; Gaz. vol. 177; p. 897.
Miller, Eli A., *et al.* (See Jones, John B., assignor.)
Miller, Eli J., York, Pa. Washing-machine. No. 1,020,618; Mar. 19; Sp. p. 3429; Gaz. vol. 176; p. 607.
Miller, Eli J., York, Pa. Dish-washing machine. No. 1,032,018; July 9; Gaz. vol. 180; p. 446.
Miller, Emil, North Haledon borough, N. J. Automatic stop-motion for ribbon-looms. No. 1,022,435; Apr. 9; Sp. p. 1449; Gaz. vol. 177; p. 259.
Miller, Emil A., Chicopee Falls, Mass. Machine for winding base-balls. No. 1,047,678; Dec. 17; Gaz. vol. 185; p. 726.
Miller, Emil H. (See Gough and Miller.)
Miller, Enoch, Boswell, Pa. Trick toy. No. 1,044,801; Nov. 19; Gaz. vol. 184; p. 674.
Miller, Ernest B. (See Patten, John, assignor.)
Miller, Ernest B., Baltimore, Md. Apparatus for elevating, transporting, and discharging material. No. 1,021,063; Mar. 26; Sp. p. 4369; Gaz. vol. 176; p. 811.
Miller, Estella. (See Hill, Josiah, assignor.)
Miller, Eugene C. (See Benson, Samuel, assignor.)
Miller, Ezra, Sterling, Mich. Railway-tie. No. 1,043,126; Nov. 5; Gaz. vol. 184; p. 27.
Miller, Francis, Bellevue, Ky. Tire-puncture finder No. 1,037,954; Sept. 10; Gaz. vol. 182; p. 295.
Miller, Francis, Bellevue, Ky. Tire-puncture finder No. 1,037,955; Sept. 10; Gaz. vol. 182; p. 295.
Miller, Francis S., assignor to Harris Air Pump Company, Indianapolis, Ind. Air-lift pump. No. 1,036,524; Aug. 20; Gaz. vol. 181; p. 792.
Miller, Frank, St. James, Mich. Invalid-bed. No. 1,027,879; May 28; Sp. p. 6145; Gaz. vol. 178; p. 1055.
Miller, Frank B., Norwalk, Ohio. Poultry-feeder. No. 1,023,325; Apr. 16; Sp. p. 3380; Gaz. vol. 177; p. 603.
Miller, Frank B., Norwalk, Ohio. Earth-anchor. No. 1,035,893; Aug. 20; Gaz. vol. 181; p. 573.
Miller, Frank C., Salt Lake City, Utah, assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 1,026,171; May 14; Sp. p. 2379; Gaz. vol. 178; p. 401.
Miller, Frank J. (See Oster and Miller.)
Miller, Frank P., Meadville, Pa. Automatic speed-change and tap-reversing attachment for drill-presses. No. 1,017,785; Feb. 20; Sp. p. 3439; Gaz. vol. 175; p. 605.
Miller, Frank W., assignor of one-half to C. D. Bauers, Chicago, Ill. Boiler washing and filling system. No. 1,032,076; July 9; Gaz. vol. 180; p. 465.
Miller, Franklin C., Pittsburgh, Pa. Wrench. No. 1,036,300; Aug. 20; Gaz. vol. 181; p. 714.
Miller, Franklin C., Easton, Pa. Hood-lock for automobiles. No. 1,047,679; Dec. 17; Gaz. vol. 185; p. 727.
Miller, Fred A., assignor to S. R. Dresser Manufacturing Company, Bradford, Pa. Rubber-packed pipe-coupling. No. 1,032,761; July 16; Gaz. vol. 180; p. 745.
Miller, Frederic R., Cypress Hills, N. Y. Stretching-frame. No. 1,021,619; Mar. 26; Sp. p. 5558; Gaz. vol. 176; p. 998.
Miller, Frederick, Los Angeles, Cal. Roundabout. No. 1,015,971; Jan. 30; Sp. p. 6329; Gaz. vol. 174; p. 1101.
Miller, Frederick C., assignor to N. Du Brul, Cincinnati, Ohio. Rear axle for automobiles. No. 1,043,785; Nov. 5; Gaz. vol. 184; p. 259.
Miller, Frederick J., assignor to The Western Gas Fixture Company, Toledo, Ohio. Hickey. No. 1,019,821; Mar. 12; Sp. p. 1743; Gaz. vol. 176; p. 305.
Miller, Frederick W. (See Miller, John A. and F. W.)
Miller, George B., assignor of one-half to G. Laut, Eau Claire, Wis. Ice-scraper. No. 1,037,956; Sept. 10; Gaz. vol. 182; p. 296.
Miller, George C., and W. J. Beattie, Fitchburg, Mass. Track-sanding device. No. 1,030,523; June 25; Sp. p. 5424; Gaz. vol. 179; p. 953.
Miller, George C. D., assignor to Cary Manufacturing Company, New York, N. Y. Retainer for partitions of crates. No. 1,048,566; Dec. 31; Gaz. vol. 185; p. 1092.
Miller, George E. (See McGonigle, Charles W., assignor.)
Miller, George E., Madison, Me. Sulfur-burner. No. 1,018,255; Feb. 20; Sp. p. 4484; Gaz. vol. 175; p. 769.
Miller, George E., Oakland, Cal. Gas-engine starter. No. 1,034,274; July 30; Gaz. vol. 180; p. 1322.
Miller, George E., Etna, Pa. Recessing-tool for lathes. No. 1,035,221; Aug. 13; Gaz. vol. 181; p. 305.
Miller, George E., Sacramento, assignor to E. Clemens Horst Company, San Francisco, Cal. Hop-cluster stemmer. No. 1,013,505; Jan. 2; Sp. p. 906; Gaz. vol. 174; p. 145.
Miller, George F., Kansas City, Mo. Chalk-holder. No. 1,040,724; Oct. 8; Gaz. vol. 183; p. 391.
Miller, George G., Lebanon, assignor to J. Von Bracht, Reading, Pa. Gun-barrel cleaner. No. 1,041,839; Oct. 22; Gaz. vol. 183; p. 834.
Miller, George L., Henry county, near Coal Valley, Ill. Funnel. No. 1,031,567; July 2; Gaz. vol. 180; p. 249.
Miller, George S., Chicago, Ill. Knife and scissors sharpener. No. 1,018,579; Feb. 27; Sp. p. 5258; Gaz. vol. 175; p. 913.
Miller, George W., Los Angeles, Cal. Coin-actuated mechanism for vending-machines. No. 1,046,099; Dec. 3; Gaz. vol. 185; p. 103.
Miller, Granville J., Fort Defiance, Va. Coin-holder for rural mail-boxes. No. 1,025,150; May 7; Sp. p. 82; Gaz. vol. 178; p. 15.
Miller, Granville J., Fort Defiance, Va. Telephone-desk and book-support. No. 1,046,100; Dec. 3; Gaz. vol. 185; p. 104.
Miller, Gustave P. S., deceased, Brooklyn, N. Y.; N. Anderson, administratrix. Pneumatic action for musical instruments. No. 1,031,141; July 2; Gaz. vol. 180; p. 104.
Miller, Gustave P. S., deceased, Brooklyn, N. Y.; N. Anderson, administratrix. Automatic piano-player. No. 1,032,692; July 16; Gaz. vol. 180; p. 721.
Miller, Guyon, assignor to Downingtown Manufacturing Company, Downingtown, Pa. Reel for winding paper. No. 1,031,568; July 2; Gaz. vol. 180; p. 249.
Miller, H. T. (See Thompson, Knight H., assignor.)
Miller, Harriet M., Opdyke, Ill. Tie. No. 1,019,342; Mar. 5; Sp. p. 749; Gaz. vol. 176; p. 117.
Miller, Harry, Butler, Pa. Vending-machine. No. 1,018,845; Feb. 27; Sp. p. 5800; Gaz. vol. 175; p. 1002.
Miller, Harry A., Los Angeles, Cal. Carbureter attachment. No. 1,014,319; Jan. 9; Sp. p. 2728; Gaz. vol. 174; p. 454.
Miller, Harry A., Los Angeles, Cal. Carbureter. No. 1,036,301; Aug. 20; Gaz. vol. 181; p. 715.
Miller, Harry A., Los Angeles, Cal. Auxiliary air attachment. No. 1,036,302; Aug. 20; Gaz. vol. 181; p. 715.
Miller, Harry E., Chicago, Ill. Device for supporting containers. No. 1,045,870; Dec. 3; Gaz. vol. 185; p. 26.
Miller, Harry G., Milwaukee, Wis., assignor to Miller Saw-Trimmer Company of Michigan, Alma, Mich. Sawing and trimming machine with router and jig-saw attachment. No. 1,030,598; June 25; Sp. p. 5651; Gaz. vol. 179; p. 979.
Miller, Henry, *et al.* (See Graetz, William, assignor.)
Miller, Henry, Pekin, Ill. Horse-swing. No. 1,015,239; Jan. 16; Sp. p. 4726; Gaz. vol. 174; p. 797.
Miller, Henry, Washington, Pa. Umbrella. No. 1,026,820; May 21; Sp. p. 3801; Gaz. vol. 178; p. 658.
Miller, Henry, Washington, Pa. Flying-machine. No. 1,031,569; July 2; Gaz. vol. 180; p. 250.
Miller, Henry C., Milwaukee, Wis. Flexible binder-post. No. 1,019,174; Mar. 5; Sp. p. 378; Gaz. vol. 176; p. 59.
Miller, Henry C., Milwaukee, Wis. Loose-leaf binder. No. 1,040,377; Oct. 8; Gaz. vol. 183; p. 267.
Miller, Henry C., Milwaukee, Wis. Loose-leaf binder. No. 1,043,955; Nov. 12; Gaz. vol. 184; p. 351.
Miller, Henry C., Waterford, N. Y. Buttonhole-sewing machine. No. 1,033,721; July 23; Gaz. vol. 180; p. 1101.
Miller, Henry C., Waterford, N. Y. Buttonhole-machine. No. 1,038,411; Sept. 10; Gaz. vol. 182; p. 448.
Miller, Henry G., Cleveland, Ohio, assignor of one-half to S. S. Newman, Pittsburgh, Pa. Filter system. No. 1,013,419; Jan. 2; Sp. p. 730; Gaz. vol. 174; p. 115.
Miller, Henry J., Marion Junction, S. D. Sled-runner. No. 1,034,134; July 30; Gaz. vol. 180; p. 1272.
Miller, Henry J., Boston, Mass., assignor to American Textile Appliances Company. Stop-motion for looms. No. 1,034,275; July 30; Gaz. vol. 180; p. 1322.
Miller, Henry S., San Diego, Cal. Miter-box. No. 1,017,640; Feb. 13; Sp. p. 3070; Gaz. vol. 175; p. 517.

Alphabetical list of patentees—Continued.

Miller, Henry W., Ritzville, Wash. Stalk-cutter. No. 1,034,392; July 30; Gaz. vol. 180; p. 1362.
Miller, Herbert J., London, Ontario, Canada. Game apparatus. No. 1,020,215; Mar. 12; Sp. p. 2582; Gaz. vol. 176; p. 438.
Miller, Herman D., Harrietsville, Ohio. Churn. No. 1,046,832; Dec. 10; Gaz. vol. 185; p. 400.
Miller, Hugh S., deceased; P. Q. Miller, administrator, Johnson City, Tenn. Automatic coupling. No. 1,044,802; Nov. 19; Gaz. vol. 184; p. 674.
Miller, Huson V., Kalamazoo, Mich. Lifting-jack. No. 1,027,880; May 28; Sp. p. 6146; Gaz. vol. 178; p. 1055.
Miller, Ingle W., Greenville, Ohio. Corn-planter. No. 1,032,693; July 16; Gaz. vol. 180; p. 721.
Miller, Irvin L. (See Robertson, Miller, and Sturdyvin.)
Miller, Isaac E., Chicago, Ill. Cooking utensil. No. 1,020,304; Mar. 12; Sp. p. 2749; Gaz. vol. 176; p. 466.
Miller, Isaac W., St. Louis, Mo. Hanger-rack. No. 1,014,020; Jan. 9; Sp. p. 2086; Gaz. vol. 174; p. 350.
Miller, Isadore H., assignor to J. Miller, Cleveland, Ohio. Cabinet. No. 1,030,111; June 18; Sp. p. 4449; Gaz. vol. 179; p. 769.
Miller, James A. (See Hoover and Miller.)
Miller, James B., Rochester, N. Y. Cell-case and blank therefor. No. 1,014,081; Jan. 9; Sp. p. 2218; Gaz. vol. 174; p. 378.
Miller, James E., Braddock, assignor of one-half to J. J. Sixsmith, Homestead, Pa. Trousers-pressing device. No. 1,038,778; Sept. 17; Gaz. vol. 182; p. 611.
Miller, James E., Braddock, assignor of one-half to J. J. Sixsmith, Homestead, Pa. Combined window lock and ventilator. No. 1,046,833; Dec. 10; Gaz. vol. 185; p. 400.
Miller, James F., Goldsboro, N. C. Sweet-potato-vine clipper. No. 1,040,234; Oct. 1; Gaz. vol. 183; p. 187.
Miller, James S., Reading, Pa. Sewage-separator. No. 1,019,907; Mar. 12; Sp. p. 1931; Gaz. vol. 176; p. 336.
Miller, James S. and W., Beaver Falls, Pa. Detachable cuff for trousers. No. 1,023,864; Apr. 23; Sp. p. 4477; Gaz. vol. 177; p. 802.
Miller, Jay D. (See Devore, Espy L., assignor.)
Miller, Jeremiah, Turtle Creek, assignor of two-thirds to J. D. Perry, A. D. Lawson, and C. R. Mitchell, Danville, W. Va. Combined fork and rake. No. 1,022,962; Apr. 9; Sp. p. 2591; Gaz. vol. 177; p. 440.
Miller, Jerome J., Omaha, Nebr. Egg-saving packer. No. 1,026,359; May 14; Sp. p. 2816; Gaz. vol. 178; p. 466.
Miller, Jesse. (See Miller, William I. and J.)
Miller, John, Jr., Beloit, Wis., assignor to Charles H. Besly & Company, Chicago, Ill. Disk-grinder. No. 1,029,882; June 18; Sp. p. 3969; Gaz. vol. 179; p. 690.
Miller, John A., Homewood, Ill. Handle-bar mechanism for pleasure-railways. No. 1,037,957; Sept. 10; Gaz. vol. 182; p. 296.
Miller, John A., Homewood, Ill. Pleasure-railway. No. 1,037,958; Sept. 10; Gaz. vol. 182; p. 296.
Miller, John A., Homewood, Ill. Pleasure-railway structure. No. 1,038,174; Sept. 10; Gaz. vol. 182; p. 367.
Miller, John A., Homewood Ill. Handle-bar mechanism for pleasure-railways. No. 1,038,175; Sept. 10; Gaz. vol. 182; p. 367.
Miller, John A. and F. W., Carrick, Pa. Mortising-machine. No. 1,037,288; Sept. 3; Gaz. vol. 182; p. 36.
Miller, John B., Chicago, Ill. Hot-water heater. No. 1,018,256; Feb. 20; Sp. p. 4485; Gaz. vol. 175; p. 770.
Miller, John C., Grantsville, Md. Stirrup. No. 1,028,763; June 4; Sp. p. 1498; Gaz. vol. 179; p. 232.
Miller, John C., Canton, Ohio. Bottle-case. No. 1,038,626; Sept. 17; Gaz. vol. 182; p. 558.
Miller, John F. (See Miller, William W. and J. F.)
Miller, John F., and W. V. Turner, Edgewood, Pa. Electric controller device. No. 1,039,170; Sept. 24; Gaz. vol. 182; p. 757.
Miller, John G., Burlington, Iowa. Vehicle-brake. No. 1,018,627; Feb. 27; Sp. p. 5342; Gaz. vol. 175; p. 927.
Miller, John G., assignor to The Baker Manufacturing Company, Chicago, Ill. Wheeled dirt-receptacle. No. 1,031,949; July 9; Gaz. vol. 180; p. 424.
Miller, John H. (See Bethel, Harry L., assignor.)
Miller, John H., New Weston, Ohio. Planter-marker. No. 1,028,375; June 4; Sp. p. 683; Gaz. vol. 179; p. 103.
Miller, John H., Mercersburg, Pa. Rail tie-plate and fastener. No. 1,033,337; July 23; Gaz. vol. 180; p. 976.
Miller, John J., San Diego, Cal. Reinforced-concrete plank and sea-wall casing. No. 1,048,567; Dec. 31; Gaz. vol. 185; p. 1092.
Miller, John K. and A. O., Seattle, Wash. Draft apparatus. No. 1,035,988; Aug. 20; Gaz. vol. 181; p. 603.
Miller, John W., Bernharts, Pa. Hammer. No. 1,037,289; Sept. 3; Gaz. vol. 182; p. 37.
Miller, John W., Waukegan, Ill., assignor to The American Steel & Wire Company of New Jersey, Hoboken, N. J. Tension appliance for bale-tie machines. No. 1,029,078; June 11; Sp. p. 2179; Gaz. vol. 179; p. 375.
Miller, John W., assignor of one-half to J. D. Martin, Todds Point, Ill. Churn. No. 1,039,572; Sept. 24; Gaz. vol. 182; p. 902.
Miller, Joseph. (See Miller, Isadore H., assignor.)
Miller, Joseph, assignor to The Champion Register Company, Cleveland, Ohio. Record-keeper. No. 1,046,000; Dec. 3; Gaz. vol. 185; p. 69.
Miller, Joseph A., *et al.* (See Spink, Edward J., assignor.)
Miller, Joseph M., Chicago, Ill. Fire-extinguisher. No. 1,018,514; Feb. 27; Sp. p. 5102; Gaz. vol. 175; p. 889.
Millet, Josiah B., assignor to Boston Talking Machine Company, Boston, Mass. Phonograph-record. No. 1,047,971; Dec. 24; Gaz. vol. 185; p. 853.
Miller, Lee, Chicago, Ill. Parachute device. No. 1,037,959; Sept. 10; Gaz. vol. 182; p. 297.
Miller, Lewis A. (See Parker, Edmund A., assignor.)
Miller Lighting Company. (See Miller, Edwin, assignor.)
Miller Lock Co. (See Dowe, Arthur W., assignor.)
Miller Lock Co. (See Soley, Frank, assignor.)
Miller, Mary H., Belle Vernon, Pa. Hat-pin-point protector. No. 1,048,568; Dec. 31; Gaz. vol. 185; p. 1093.
Miller, Mary K., Manor, Pa. Jar-closure. No. 1,032,490; July 16; Gaz. vol. 180; p. 651.
Miller, Martin T., Tracy, Iowa. Mail-carrier. No. 1,021,620; Mar. 26; Sp. p. 5559; Gaz. vol. 176; p. 998.
Miller, Maurice T., Scranton, Pa. Door-crape hanger. No. 1,022,963; Apr. 9; Sp. p. 2593; Gaz. vol. 177; p. 441.
Miller, Merle W., Warren, Pa. Gage. No. 1,045,871; Dec. 3; Gaz. vol. 185; p. 26.
Miller, Morris, New York, N. Y. Reversible coat. No. 1,034,135; July 30; Gaz. vol. 180; p. 1272.
Miller, Moses, and J. Bliden, Baltimore, Md. Garment. No. 1,031,142; July 2; Gaz. vol. 180; p. 104.
Miller, Moses, J. Bliden, and M. Smith, Baltimore, Md. Sewing-machine attachment. No. 1,048,720; Dec. 31; Gaz. vol. 185; p. 1147.
Miller, Nicholas C., Dodgeville, Wis. Hoisting-drum. No. 1,019,269; Mar. 5; Sp. p. 575; Gaz. vol. 176; p. 92.
Miller, Nicholas C., Dodgeville, Wis. Hay-distributer. No. 1,025,708; May 7; Sp. p. 1325; Gaz. vol. 178; p. 207.
Miller, Nicholas C., Dodgeville, Wis. Clutch. No. 1,028,764; June 4; Sp. p. 1499; Gaz. vol. 179; p. 233.
Miller, Ole C., Chicago, Ill. Sandpaper-holder. No. 1,024,015; Apr. 23; Sp. p. 4805; Gaz. vol. 177; p. 853.
Miller, Oscar. (See Krangness, Nels B., assignor.)
Miller, Peter Q., administrator. (See Miller, Hugh S.)
Miller, Philip C., Chicago, Ill. Adjustable valve for dust-collectors. No. 1,023,521; Apr. 16; Sp. p. 3760; Gaz. vol. 177; p. 665.
Miller, Philip C., Chicago, Ill. Adjuster for blowpipe systems. No. 1,028,376; June 4; Sp. p. 684; Gaz. vol. 179; p. 104.
Miller, Raymond E., New Brighton, Pa. Wrench. No. 1,025,709; May 7; Sp. p. 1330; Gaz. vol. 178; p. 207.
Miller, Richard, New Berlin, Ohio. Take-up buckle. No. 1,033,338; July 23; Gaz. vol. 180; p. 977.
Miller, Richard, Appleton, Wis. Car-mover shoe. No. 1,037,960; Sept. 10; Gaz vol. 182; p. 298.
Miller, Robert, Jr., Schenectady, N. Y., assignor to General Electric Company. Resistance. No. 1,021,256; Mar. 26; Sp. p. 4782; Gaz. vol. 176; p. 873.
Miller, Robert E., Bethlehem, Pa. Sled. No. 1,041,324; Oct. 15; Gaz. vol. 183; p. 625.
Miller, Roscoe, *et al.* (See Crull and Spangler, assignors.)
Miller, Royal R., assignor of one-half to W. C. Darby, Pueblo, Colo. Waterproof switch-box. No. 1,021,373; Mar. 26; Sp. p. 5007; Gaz. vol. 176; p. 914.
Miller, Royal R., assignor of one-half to W. C. Darby, Pueblo, Colo. Electric track-switch. No. 1,046,001; Dec. 3; Gaz. vol. 185; p. 69.
Miller, Rudolph C., Beaumont, Tex. Grain-door for cars. No. 1,017,786; Feb. 20; Sp. p. 3443; Gaz. vol. 175; p. 605.
Miller, Samuel, Chicago, Ill. Dump-wagon. No. 1,040,725; Oct. 8; Gaz. vol. 183; p. 391.
Miller, Samuel B., Vandergrift Heights, Pa. Feed-bag. No. 1,044,221; Nov. 12; Gaz. vol. 184; p. 441.
Miller, Samuel F., South Orange, N. J., assignor to Pacific Flush Tank Company, Chicago, Ill. Adjustable vent for siphons. No. 1,037,791; Sept. 3; Gaz. vol. 182; p. 204.
Miller Saw-Trimmer Company of Michigan. (See Miller, Harry G., assignor.)
Miller, Sesworth G., Russell, Kans. Pipe-clamp. No. 1,014,504; Jan. 9; Sp. p. 3109; Gaz. vol. 174; p. 516.
Miller, Solomon M., Peoria, Ill. Safety appliance for elevators. No. 1,017,684; Feb. 20; Sp. p. 3160; Gaz. vol. 175; p. 570.
Miller & Sons Co. (See Taggart, William N., assignor.)
Miller, Stephen S., Akron, Ohio, assignor to Consolidated Rubber Tire Company, New York, N. Y. Antiskid device for block-tires. No. 1,041,139; Oct. 15; Gaz. vol. 183; p. 562.
Miller, Steven, Smithdale, Pa. Game apparatus or puzzle. No. 1,021,546; Mar. 26; Sp. p. 5417; Gaz. vol. 176; p. 975.
Miller, Thomas B., Kansas City, Mo. Miter-clamp. No. 1,034,482; Aug. 6; Gaz. vol. 181; p. 27.
Miller, Thomas D., St. Louis, Mo. Closure for retorts. No. 1,038,933; Sept. 17; Gaz. vol. 182; p. 665.
Miller, Thomas F., Richland, assignor of one-half to H. E. Russell, Plainwell, Mich. Package-tie. No. 1,022,964; Apr. 9; Sp. p. 2594; Gaz. vol. 177; p. 441.
Miller, Thomas J., and G. Allsup, Biggs, Oreg. Peach-brushing apparatus. No. 1,013,506; Jan. 2; Sp. p. 908; Gaz. vol. 174; p. 145.

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Miller, Thomas M., Sidney, Ohio. Game-board. No. 1,043,956; Nov. 12; Gaz. vol. 184; p. 352.
Miller, Thomas S., South Orange, N. J. Apparatus for transferring materials. No. 1,013,420; Jan. 2; Sp. p. 732; Gaz. vol. 174; p. 115.
Miller, Thomas S., South Orange, N. J. Marine transfer. No. 1,015,240; Jan. 16; Sp. p. 4727; Gaz. vol. 174; p. 797.
Miller, Thomas S., South Orange, N. J. Hoisting-engine. No. 1,024,520; Apr. 30; Sp. p. 5962; Gaz. vol. 177; p. 1062.
Miller, Thomas S., South Orange, N. J. Friction-clutch mechanism. No. 1,024,737; Apr. 30; Sp. p. 6454; Gaz. vol. 177; p. 1138.
Miller, Thomas S., South Orange, N. J. Engine. No. 1,028,127; June 4; Sp. p. 70; Gaz. vol. 179; p. 15.
Miller, Thomas S., South Orange, N. J. Marine cableway. No. 1,028,897; June 11; Sp. p. 1801; Gaz. vol. 179; p. 314.
Miller, Thomas S., South Orange, N. J. Cableway button-stop. No. 1,031,360; July 2; Gaz. vol. 180; p. 179.
Miller, Thomas S., South Orange, N. J. Cableway. No. 1,033,436; July 23; Gaz. vol. 180; p. 1009.
Miller, Thomas S., South Orange, N. J. Rope-engine for marine transfers. No. 1,037,508; Sept. 3; Gaz. vol. 182; p. 113.
Miller, Thomas W., assignor to The Faultless Rubber Company, Ashland, Ohio. Bathing-cap. No. 1,028,826; June 4; Sp. p. 1628; Gaz. vol. 179; p. 254.
Miller, Tom A., Dublin, Tex. Union garment. No. 1,033,437; July 23; Gaz. vol. 180; p. 1009.
Miller, Walter. (See Miller, James S. and W.)
Miller, Walter J., assignor of one-fourth to J. R. French and one-fourth to J. Michelsen, Los Angeles, Cal. Sanitary vacuum beer-mug. No. 1,031,950; July 9; Gaz. vol. 180; p. 424.
Miller, Wiley S., Mansfield, Wash. Dish-washer. No. 1,045,726; Nov. 26; Gaz. vol. 184; p. 1026.
Miller, William, St. Louis, Mo., assignor to Standard Railway Equipment Company, East St. Louis, Ill. Carline. No. 1,029,570; June 11; Sp. p. 3249; Gaz. vol. 179; p. 545.
Miller, William, assignor to Acme Pipe Clamp Company, St. Louis, Mo. Train-pipe clamp. No. 1,030,200; June 18; Sp. p. 4642; Gaz. vol. 179; p. 798.
Miller, William B., Pine Bluff, Ark. Window-screen. No. 1,017,266; Feb. 13; Sp. p. 2306; Gaz. vol. 175; p. 392.
Miller, William B., Pittsburgh, Pa. Merchandise-carrier. No. 1,022,104; Apr. 2; Sp. p. 740; Gaz. vol. 177; p. 118.
Miller, William B., Altoona, Pa. Curtain-rod. No. 1,035,989; Aug. 20; Gaz. vol. 181; p. 604.
Miller, William D., Butler, Pa. Telephone-receiver holder. No. 1,042,811; Oct. 29; Gaz. vol. 183; p. 1193.
Miller, William E., Revere, Mass. Amusement apparatus. No. 1,013,202; Jan. 2; Sp. p. 229; Gaz. vol. 174; p. 39.
Miller, William E., Revere, Mass. Amusement apparatus. No. 1,013,203; Jan. 2; Sp. p. 230; Gaz. vol. 174; p. 39.
Miller, William E., Palisade, Nev. Rail-brace and tie-rod. No. 1,042,024; Oct. 22; Gaz. vol. 183; p. 897.
Miller, William F., Fond du Lac, Wis. Grinding and polishing machine. No. 1,025,417; May 7; Sp. p. 679; Gaz. vol. 178; p. 107.
Miller, William I. and J., Red Wing, Minn. Horseshoe-calk. No. 1,026,449; May 14; Sp. p. 3009; Gaz. vol. 178; p. 496.
Miller, William L., assignor to Gisholt Machine Company, Madison, Wis. Electric signaling system. No. 1,040,378; Oct. 8; Gaz. vol. 183; p. 267.
Miller, William L., assignor to Gisholt Machine Company, Madison, Wis. Turret rotating, centering, and locking mechanism for turret-lathes. No. 1,047,270; Dec. 17; Gaz. vol. 185; p. 581.
Miller, William P., Freeport, N. Y. Grease-gun. No. 1,041,840; Oct. 22; Gaz. vol. 183; p. 834.
Miller, William R., Southington, Conn. Light-fixture tripod. No. 1,030,007; June 18; Sp. p. 4219; Gaz. vol. 179; p. 731.
Miller, William T., Winston Salem, N. C. Trolley. No. 1,043,023; Oct. 29; Gaz. vol. 183; p. 1266.
Miller, William T., Boston, Mass., assignor to Henry F. Miller & Sons Piano Company. Pneumatic player for musical instruments. No. 1,033,438; July 23; Gaz. vol. 180; p. 1009.
Miller, William W., Union township, and J. F. Miller, Jackson township, Miami county, Ind. Appliance for handling helpless persons. No. 1,018,723; Feb. 27; Sp. p. 5542; Gaz. vol. 175; p. 959.
Miller, Willis I., Cleveland, Ohio. Electric-lamp fixture. No. 1,036,676; Aug. 27; Gaz. vol. 181; p. 876.
Miller, Willis I., Cleveland, Ohio. Electrically-operated massaging device. No. 1,043,957; Nov. 12; Gaz. vol. 184; p. 352.
Miller, Wray B., Bourbon, Ind. Nest. No. 1,019,072; Mar. 5; Sp. p. 142; Gaz. vol. 176; p. 23.
Miller, Wray B., Bourbon, Ind. Churn. No. 1,021,621; Mar. 26; Sp. p. 5560; Gaz. vol. 176; p. 998.
Millers Falls Company. (See Leland, John A., assignor.)
Millers Falls Company. (See Ryther, Henry A., assignor.)
Millet, Josiah B., Boston, Mass. Phonograph. No. 1,013,421; Jan. 2; Sp. p. 735; Gaz. vol. 174; p. 116.
Millican, Frederick S., Vancouver, British Columbia, Canada. Boat. No. 1,038,176; Sept. 10; Gaz. vol. 182; p. 367.
Millice, Paul S., Miamisburg, Ohio, assignor to Fire-Proof Furniture and Construction Company, New York, N. Y. Filing device. No. 1,032,491; July 16; Gaz. vol. 180; p. 652.
Millies, Wilhelm. (See Dietrich and Millies.)
Milligan, James H., Lawrenceville, Ill. Burial-vault. No. 1,031,725; July 9; Gaz. vol. 180; p. 346.
Milligan, Stephen W., Elizabeth, and J. F. Jacobsen, assignors to The Manufacturers Can Company, Newark, N. J. Sealing device for cans, &c. No. 1,040,726; Oct. 8; Gaz. vol. 183; p. 391.
Milligan, Wellington H. (See Beaver, Howard W., assignor.)
Milliken, Isaac H., assignor to The McConway & Torley Company, Pittsburgh, Pa. Coupling. No. 1,021,423; Mar. 26; Sp. p. 5156; Gaz. vol. 176; p. 933.
Milliken, Isaac H., Aspinwall, assignor to The McConway & Torley Company, Pittsburgh, Pa. Car-coupling. No. 1,033,259; July 23; Gaz. vol. 180; p. 951.
Milliken, Norman I., assignor to The Janesville Machine Co., Janesville, Wis. Plow. No. 1,018,397; Feb. 20; Sp. p. 4779; Gaz. vol. 175; p. 818.
Milliner, James M., New Hope, Ala. Muzzle. No. 1,041,841; Oct. 22; Gaz. vol. 183; p. 835.
Million, Silas J., Rogers, Nebr. Traction-plow. No. 1,029,816; June 18; Sp. p. 3802; Gaz. vol. 179; p. 667.
Milliren, John E., Falls Creek, Pa. Glass-handling apparatus. No. 1,038,177; Sept. 10; Gaz. vol. 182; p. 368.
Milliron, Russell D., Mount Pleasant, Pa. Tie and rail-fastener. No. 1,028,587; June 4; Sp. p. 1143; Gaz. vol. 179; p. 174.
Mills, Anson C., assignor to Jackson Fence Company, Jackson, Mich. Metallic tube. No. 1,034,483; Aug. 6; Gaz. vol. 181; p. 27.
Mills, Bert L., Hastings, Nebr. Air-pressure reservoir. No. 1,044,465; Nov. 12; Gaz. vol. 184; p. 525.
Mills, Charles, assignor, by mesne assignments, to Saco-Pettee Company, Newton, Mass. Machine for attaching clothing to flats. No. 1,029,452; June 11; Sp. p. 3014; Gaz. vol. 179; p. 504.
Mills, Charles, assignor, by mesne assignments, to Saco-Pettee Company, Newton, Mass. Coiler-tube. No. 1,040,566; Oct. 8; Gaz. vol. 183; p. 333.
Mills, Charles, and L. W. Penney, assignors, by mesne assignments, to Saco-Pettee Company, Newton, Mass. Lap-winder. No. 1,029,391; June 11; Sp. p. 2891; Gaz. vol. 179; p. 483.
Mills, Charles S., Middletown, N. Y. Printing-plate base. No. 1,031,803; July 9; Gaz. vol. 180; p. 374.
Mills, Chester B., East McKeesport, Pa., assignor to Westinghouse Electric and Manufacturing Company. Core structure for dynamo-electric machines. No. 1,046,834; Dec. 10; Gaz. vol. 185; p. 400.
Mills, Daniel, Philadelphia, Pa., assignor to Standard Sewing Machine Company, Cleveland, Ohio. Thread-cutting mechanism for sewing-machines. No. 1,016,027; Jan. 30; Sp. p. 6446; Gaz. vol. 174; p. 1122.
Mills, Daniel, Philadelphia, Pa., assignor to Standard Sewing Machine Company, Cleveland, Ohio. Thread-cutting mechanism for sewing-machines. No. 1,016,226; Jan. 30; Sp. p. 6836; Gaz. vol. 174; p. 1188.
Mills, Edgar C., Manchester, England. Furnace for steam-boilers. No. 1,041,325; Oct. 15; Gaz. vol. 183; p. 625.
Mills, Edward L., Los Angeles, Cal. Drive-down-casing spear. No. 1,021,205; Mar. 26; Sp. p. 4662; Gaz. vol. 176; p. 855.
Mills, Edward L., assignor to Fitchburg Machine Works, Fitchburg, Mass. Lathe. No. 1,027,496; May 28; Sp. p. 5289; Gaz. vol. 178; p. 927.
Mills, Edward L., Fitchburg, Mass., and J. W. Whitford, Jersey City, N. J., assignors to Fitchburg Machine Works, Fitchburg, Mass. Tool-holder. No. 1,015,903; Jan. 30; Sp. p. 6189; Gaz. vol. 174; p. 1079.
Mills, Edward L., Fitchburg, Mass., and J. W. Whitford, Jersey City, N. J., assignors to Fitchburg Machine Works, Fitchburg, Mass. Lathe attachment for turning taper surfaces. No. 1,031,726; July 9; Gaz. vol. 180; p. 347.
Mills, Edward R. (See Elliott, Mills, and Holt.)
Mills, Ernest H., Merchantville, assignor of one-half to G. Loeling, Pensauken township, N. J. Automatic self-feeder for chickens, pigeons, and the like. No. 1,027,881; May 28; Sp. p. 6148; Gaz. vol. 178; p. 1056.
Mills, Frank B., Chicago, Ill. Steering-indicator. No. 1,044,901; Nov. 19; Gaz. vol. 184; p. 707.
Mills, George W., and J. E. Simpson, Georgetown, Pa. Feed-regulator for gravity concrete-mixers. No. 1,047,680; Dec. 17; Gaz. vol. 185; p. 728.
Mills, H. S. (See Mills, Mortimer B., assignor.)
Mills, Herbert S., Chicago, Ill. Coin-controlled device for vending-machines. No. 1,014,320; Jan. 9; Sp. p. 2729; Gaz. vol. 174; p. 455.
Mills, Herbert S., Oak Park, Ill. Delivery-protector for vending-machines. No. 1,024,140; Apr. 23; Sp. p. 5104; Gaz. vol. 177; p. 898.

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Mills, Herbert S., Oak Park, Ill. Coin-chute for vending-machines. No. 1,029,209; June 11; Sp. p. 2466; Gaz. vol. 179; p. 420.
Mills, Herbert S., Oak Park, Ill. Vending-machine. No. 1,038,178; Sept. 10; Gaz. vol. 182; p. 368.
Mills, Herman C. (See Hill and Underwood, assignors.)
Mills, Herman C. (See Underwood and Hill, assignors.)
Mills, Ignatious P., San Francisco, Cal. Sanitary device for telephones. No. 1,045,310; Nov. 26; Gaz. vol. 184; p. 877.
Mills, James, Spokane, Wash. Gate. No. 1,018,515; Feb. 27; Sp. p. 5104; Gaz. vol. 175; p. 890.
Mills, John H. T. (See Mills, Virgil H. and J. H. T.)
Mills, John H. T. and V. H., Hubbard, Tex. Oil-burner. No. 1,035,459; Aug. 13; Gaz. vol. 181; p. 389.
Mills, Love W., *et al.*, heirs-at-law. (See Webb, Samuel J.)
Mills, Mortimer B., Chicago, assignor to H. S. Mills, Oak Park, Ill. Annunciator apparatus. No. 1,027,749; May 28; Sp. p. 5798; Gaz. vol. 178; p. 1010.
Mills Novelty Company. (See Hassmann, Carl G., assignor.)
Mills Novelty Company. (See Sandell, Henry K., assignor.)
Mills, Patrick P., Raton, N. Mex. Dirt-receptacle for grave-diggers. No. 1,033,722; July 23; Gaz. vol. 180; p. 1101.
Mills, Radcliffe B., Philadelphia, Pa. Dyeing-tub. No. 1,014,243; Jan. 9; Sp. p. 2574; Gaz. vol. 174; p. 429.
Mills, Robert W., Chicago, Ill. Instrument-holder. No. 1,045,583; Nov. 26; Gaz. vol. 184; p. 975.
Mills, Thomas, Bartlett, Ohio, assignor of one-half to S. L. Roseburg, Pittsburgh, Pa. Bottle. No. 1,023,114; Apr. 9; Sp. p. 2894; Gaz. vol. 177; p. 492.
Mills, Virgil H. (See Mills, John H. T. and V. H.)
Mills, Virgil H. and J. H. T., Hubbard, Tex. Steam-generator. No. 1,024,521; Apr. 30; Sp. p. 5966; Gaz. vol. 177; p. 1063.
Mills Woven Cartridge Belt Co. (See Jennings, Victor H., assignor.)
Mills Woven Cartridge Belt Co., The. (See Knight, Livingston, assignor.)
Millsaps, Daniel W., assignor, by mesne assignments, to The Millsaps Mail Exchange Company, Marion, S. C. Mail-bag deliverer and receiver. No. 1,034,639; Aug. 6; Gaz. vol. 181; p. 78.
Millsaps Mail Exchange Company, The. (See Millsaps, Daniel W., assignor.)
Millspaugh, Edward J., *et al.* (See Sanford, Leverett A., assignor.)
Millspaugh, William H., Sandusky, Ohio. Paper-making machine. No. 1,025,822; May 7; Sp. p. 1563; Gaz. vol. 178; p. 247.
Millspaugh, William H., Sandusky, Ohio. Device for filling centrifugal casting-machines. No. 1,047,972; Dec. 24; Gaz. vol. 185; p. 853.
Millville Machine Company. (See Headley and Bard, assignors.)
Millward, Russell H., Washington, D. C. Attachment for type-writers. No. 1,045,424; Nov. 26; Gaz. vol. 184; p. 918.
Millward, Russell H., Washington, D. C. Combined ruler and letter-scale. No. 1,045,425; Nov. 26; Gaz. vol. 184; p. 918.
Millward, Thomas. (See Paris and Millward.)
Milne, Charles A., W. Taylor, and M. R. Churchill, assignors, by mesne assignments, to Motor Appliances Company, Detroit, Mich. Engine-starting device. No. 1,032,694; July 16; Gaz. vol. 180; p. 722.
Milne, John, New York, N. Y. Superheater. No. 1,025,151; May 7; Sp. p. 83; Gaz. vol. 178; p. 15.
Milne, Robert, Rockford, Ill. Change-speed mechanism. No. 1,029,549; June 11; Sp. p. 3206; Gaz. vol. 179; p. 538.
Milne, Robert, Rockford, Ill. Belt-shifter. No. 1,036,303; Aug. 20; Gaz. vol. 181; p. 715.
Milne, Robert, assignor to Rockford Drilling Machine Company, Rockford, Ill. Gearing. No. 1,017,441; Feb. 13; Sp. p. 2676; Gaz. vol. 175; p. 453.
Milne, Robert, assignor to Rockford Drilling Machine Co., Rockford, Ill. Feeding attachment for drill-spindles. No. 1,026,595; May 14; Sp. p. 3285; Gaz. vol. 178; p. 543.
Milner, Barons, *et al.* (See Albert, Floyd W., assignor.)
Milner, Emil H., Stockbridge, Mich. Reclining-chair. No. 1,015,452; Jan. 23; Sp. p. 5213; Gaz. vol. 174; p. 896.
Miltenberg, Alfred M. (See Swingle and Miltenberg.)
Milton Chemical Company. (See Billings, Walter H., assignor.)
Milton, Frederick B., Pittston, Pa. Mucilage-brush holder. No. 1,013,422; Jan. 2; Sp. p. 738; Gaz. vol. 174; p. 116.
Milton, John, assignor of one-half to E. L. Scharf, Washington, D. C., and one-half to G. F. Eamich, Lovettsville, Va. Valve mechanism for draft-regulators. No. 1,031,458; July 2; Gaz. vol. 180; p. 212.
Milton, John L., Chicago, Ill. Electrical equipment for automobiles. No. 1,015,275; Jan. 16; Sp. p. 4808; Gaz. vol. 174; p. 809.
Milton, John L., Chicago, Ill. Making electric coils. No. 1,046,211; Dec. 3; Gaz. vol. 185; p. 142.
Milton, John L., Louisville, Ky. Electric ignition system for internal-combustion engines. No. 1,039,171; Sept. 24; Gaz. vol. 182; p. 758.
Milton, Richard H., Greensboro, N. C. Airship-propeller. No. 1,028,765; June 4; Sp. p. 1502; Gaz. vol. 179; p. 233.
Milwaukee Brass Manufacturing Company. (See Engel, August, assignor.)
Milwaukee Corrugating Company. (See Brune, Friederich, assignor.)
Milwaukee Corrugating Company. (See Flagge, Phillipp F., assignor.)
Milwaukee Separator Company. (See Hartmann, William C., assignor.)
Milz, Walter E. E., assignor to Phinney-Walker Keyless Clock Co., New York, N. Y. Keyless clock. No. 1,031,804; July 9; Gaz. vol. 180; p. 374.
Milz, Walter E. E., assignor to Phinney-Walker Keyless Clock Co., New York, N. Y. Keyless clock. No. 1,031,805; July 9; Gaz. vol. 180; p. 374.
Milz, Walter E. E., assignor to Phinney-Walker Keyless Clock Company, New York, N. Y. Stop mechanism. No. 1,031,806; July 9; Gaz. vol. 180; p. 375.
Mimms, Nannie L., Selma, Ala. Device for attaching shades to shade-rollers. No. 1,041,140; Oct. 15; Gaz. vol. 183; p. 562.
Minchin, Alice M., Evart, Mich. Mattress. No. 1,035,222; Aug. 13; Gaz. vol. 181; p. 305.
Mine & Smelter Supply Company, The. (See Eggers, Henry, assignor.)
Mineart, Christ, East Pleasant Plain, Iowa. Car-brake. No. 1,036,878; Aug. 27; Gaz. vol. 181; p. 942.
Miner, James H., Lumberton, Miss. Acetylene-gas generator. No. 1,016,843; Feb. 6; Sp. p. 1346; Gaz. vol. 175; p. 208.
Miner, James H., Lumberton, Miss. Wheel-flange lubricator. No. 1,027,559; May 28; Sp. p. 5419; Gaz. vol. 178; p. 949.
Miner, James H., Lumberton, Miss. Wheel-flange lubricator. No. 1,033,919; July 30; Gaz. vol. 180; p. 1196.
Miner, James H., Lumberton, Miss. Cleat or lag for conveyer-chains. No. 1,048,848; Dec. 31; Gaz. vol. 185; p. 1191.
Miner, Lucien L., Bisbee, Ariz. Brace for fractured bones. No. 1,025,008; Apr. 30; Sp. p. 7018; Gaz. vol. 177; p. 1232.
Miner, Ralph K. (See Feldmeier and Miner.)
Miner, Stewart A., Dauphin, Manitoba, Canada. Grain-car door. No. 1,047,131; Dec. 10; Gaz. vol. 185; p. 501.
Miner, Walter C., Boston, Mass. Target. No. 1,036,879; Aug. 27; Gaz. vol. 181; p. 942.
Miner, William H. (See Bundy, Cyrus L., assignor.)
Miner, William H. (See Dath, Charles E., assignor.)
Miner, William H. (See Johnson, George A., assignor.)
Miner, William H. (See Lewis, Goodrich Q., assignor.)
Miner, William H. (See O'Connor, John F., assignor.)
Minerallac Electric Company. (See Hall, Chester I., assignor.)
Miners Electric Safety Lamp Manfg. Co., The. (See Thompson, Alva E., assignor.)
Miners Electric Safety Lamp Manfg. Co., The. (See Thompson and Cameron, assignors.)
Minetty, George A., Davenport, Iowa. Dumping-car. No. 1,013,801; Jan. 2; Sp. p. 1556; Gaz. vol. 174; p. 247.
Minetty, George A., Davenport, Iowa. Locking device. No. 1,038,412; Sept. 10; Gaz. vol. 182; p. 449.
Mingay, Matthew, Detroit, Mich. Reinforced concrete structure. No. 1,016,760; Feb. 6; Sp. p. 1180; Gaz. vol. 175; p. 181.
Mingo, Herbert G., New Westminster, British Columbia, Canada. Advertising device. No. 1,046,318; Dec. 3; Gaz. vol. 185; p. 181.
Minhinnett, George F., Blooming Grove, Tex. Reversible automobile-lamp. No. 1,037,961; Sept. 10; Gaz. vol. 182; p. 298.
Minier, George H., and T. Lowe, South Pasadena, Cal. Gas-furnace. No. 1,032,695; July 16; Gaz. vol. 180; p. 723.
Minimax Consolidated Limited. (See Breslauer, Max, assignor.)
Mink, Benjamin L., Philadelphia, Pa. Attachment for flagpoles. No. 1,035,990; Aug. 20; Gaz. vol. 181; p. 604.
Minkhoff, Charles I., and L. Kronthal, New York, N. Y. Adjustable hat or cap. No. 1,014,505; Jan. 9; Sp. p. 3111; Gaz. vol. 174; p. 517.
Minkoff, Charles I., and L. Kronthal, New York, N. Y. Cap. No. 1,040,727; Oct. 8; Gaz. vol. 183; p. 391.
Minneapolis Bedding Company. (See Courtney, William E., assignor.)
Minneapolis Motor Company. (See Michaelson, Joseph M., assignor.)
Minnesota Manufacturers Association. (See Heimer, John, assignor.)
Minnesota Manufacturers Association. (See Johnston, Henry H., assignor.)
Minnesota Manufacturers Association. (See Lister, Charles H., assignor.)
Minnich, David A., deceased, York, Pa.; W. A. Cook, administrator. Vacuum carpet-cleaner. No. 1,035,460; Aug. 13; Gaz. vol. 181; p. 389.

Alphabetical list of patentees—Continued.

Minnick, Alfred, Coeur d'Alene, Idaho, assignor to Minnick Automatic Train Controller Company. Safety system for railways. No. 1,016,227; Jan. 30; Sp. p. 6843; Gaz. vol. 174; p. 1189.
Minnick, Alfred, Coeur d'Alene, Idaho, assignor to Minnick Automatic Train Controller Company. Automatic brake-applying means for railways. No. 1,029,210; June 11; Sp. p. 2468; Gaz. vol. 179; p. 420.
Minnick Automatic Train Controller Company. (See Minnick, Alfred, assignor.)
Minniear, William, Altamont, Kans. Hay-retainer. No. 1,045,426; Nov. 26; Gaz. vol. 184; p. 918.
Minnier, Blythe J., Watertown, N. Y., assignor to New York Air Brake Company. Air-brake apparatus. No. 1,017,787; Feb. 20; Sp. p. 3444; Gaz. vol. 175; p. 606.
Minnig, Elmer L., Harrisburg, Pa. Nut-lock. No. 1,024,805; Apr. 30; Sp. p. 6606; Gaz. vol. 177; p. 1162.
Minnis, Paul H., Lansing, Mich. Spring-wheel for vehicles. No. 1,014,409; Jan. 9; Sp. p. 2937; Gaz. vol. 174; p. 487.
Minor, Daniel B., assignor to L. S. Hackney, St. Paul, Minn. Fan. No. 1,014,321; Jan. 9; Sp. p. 2733; Gaz. vol. 174; p. 455.
Minor, Daniel B., assignor to L. S. Hackney, St. Paul, Minn. Centrifugal fan. No. 1,020,771; Mar. 19; Sp. p. 3767; Gaz. vol. 176; p. 660.
Minor, John H., Kansas City, Mo. Program-holder. No. 1,049,311; Dec. 31; Gaz. vol. 185; p. 1350.
Minster, Nicholas L. (See Smith, Albert D., assignor.)
Minter, Ignatius. (See Minter, Peter, W., and I.)
Minter, Peter, W., and I., Highland, Wis. Acetylene-gas generator. No. 1,027,750; May 28; Sp. p. 5801; Gaz. vol. 178; p. 1011.
Minter, Walter J., London, England. Pocket-knife. No. 1,022,494; Apr. 9; Sp. p. 1559; Gaz. vol. 177; p. 280.
Minter, William. (See Minter, Peter, W., and I.)
Minto, George W., and J. F. McCormick, Brier Hill, Pa. Locking device for the gates of shafts. No. 1,036,504; Aug. 20; Gaz. vol. 181; p. 786.
Minton, J. A. (See Cannon, John F., assignor.)
Mintz, Harry, Passaic, N. J. Safe. No. 1,026,630; May 14; Sp. p. 3372; Gaz. vol. 178; p. 555.
Mintz, Harry, Malden, Mass. Extensible bed. No. 1,035,721; Aug. 13; Gaz. vol. 181; p. 477.
Mintz, Hyman, Passaic, N. J. Life-boat. No. 1,033,607; July 23; Gaz. vol. 180; p. 1065.
Mintz, Mike, Rock Island, Ill. Diaphragm-valve. No. 1,035,803; Aug. 13; Gaz. vol. 181; p. 503.
Mintz, Mike, Rock Island, Ill. Air-compressor. No. 1,035,804; Aug. 13; Gaz. vol. 181; p. 504.
Minue, William E., Fredericton, New Brunswick, Canada. Rotating-cylinder engine. No. 1,019,908; Mar. 12; Sp. p. 1932; Gaz. vol. 176; p. 336.
Miquel, Juan. (See Vincke and Miquel.)
Miracle, Meredith W., Dallas, Tex. Automatic computing device. No. 1,033,439; July 23; Gaz. vol. 180; p. 1010.
Miram, Kurt, and L. Seidel, Aachen, Germany. Electromagnetic clutch. No. 1,031,081; July 2; Gaz. vol. 180; p. 83.
Mirandette, Hormidas S., Spencer, Mass. Sole-cutter and numbering-machine. No. 1,033,764; July 23; Gaz. vol. 180; p. 1114.
Mireau, Ernest, Toronto, Ontario, Canada. Flame-deflector. No. 1,022,436; Apr. 9; Sp. p. 1450; Gaz. vol. 177; p. 260.
Mires, John C., Oakland, Cal. Underground conduit for electric railways. No. 1,014,892; Jan. 16; Sp. p. 4023; Gaz. vol. 174; p. 680.
Miron, Joseph, Wabeno, Wis. Safety-clevis. No. 1,022,041; Apr. 2; Sp. p. 618; Gaz. vol. 177; p. 97.
Miser, Charles E., assignor to Miser-Shaff Specialty Company, Watertown, N. Y. Automatic relief-valve. No. 1,019,511; Mar. 5; Sp. p. 1163; Gaz. vol. 176; p. 172.
Miser-Shaff Specialty Company. (See Miser, Charles E., assignor.)
Miserez, Jules. (See Lippke, Babin, and Miserez.)
Mishawaka Woolen Manufacturing Co. (See Timming, August C., assignor.)
Mishler, Carlton E., Shipshewana, Ind. Square. No. 1,048,333; Dec. 24; Gaz. vol. 185; p. 975.
Misko, Joseph, assignor to D. W. McCord, New York, N. Y. Making rail-joints. No. 1,041,503; Oct. 15; Gaz. vol. 183; p. 683.
Miskovsky, Frank, Providence, R. I. Automobile starting device. No. 1,047,103; Dec. 10; Gaz. vol. 185; p. 489.
Misland, Joseph A. (See Cannan and Misland.)
Misland, Joseph A., Bayonne, N. J. Electrical resistance. No. 1,036,304; Aug. 20; Gaz. vol. 181; p. 716.
Misner Briquette Machine Company, The. (See Misner, Edgar D., assignor.)
Misner, Edgar D., St. Louis, Mo., assignor to The Misner Briquette Machine Company. Molding-machine. No. 1,015,576; Jan. 23; Sp. p. 5489; Gaz. vol. 174; p. 939.
Misner, William L., Tonawanda, N. Y. Whiffletree-guard. No. 1,033,920; July 30; Gaz. vol. 180; p. 1197.
Missouri Lamp & Mfg. Co. (See Schaefer, Edward, assignor.)
Mitchell, Abner A., Earleton, Kans. Attachment for cultivators. No. 1,013,675; Jan. 2; Sp. p. 1292; Gaz. vol. 174; p. 203.
Mitchell, Archibald R. (See Kent and Mitchell.)
Mitchell, Ardon M., Flushing, N. Y. Casualty-indicator. No. 1,029,550; June 11; Sp. p. 3210; Gaz. vol. 179; p. 538.
Mitchell, Ardon M., Flushing, assignor, by mesne assignments, of one-half to K. M. Widmer, New York, N. Y. Making fuel-briquets. No. 1,029,022; June 11; Sp. p. 2077; Gaz. vol. 179; p. 357.
Mitchell, Charles E. (See Maiworm and Mitchell.)
Mitchell, Charles R., *et al.* (See Miller, Jeremiah, assignor.)
Mitchell, Charles R., Chatswood, New South Wales, Australia. Milking machinery. No. 1,018,846; Feb. 27; Sp. p. 5802; Gaz. vol. 175; p. 1002.
Mitchell, Clarence C., Madisonville, Ohio, assignor to The Triumph Electric Company. Dynamo-electric machine. No. 1,033,188; July 23; Gaz. vol. 180; p. 926.
Mitchell, Edgar S., and G. A. Campbell, Homer, La. Extension car-step. No. 1,033,029; July 16; Gaz. vol. 180; p. 833.
Mitchell, Edmund, Old Trap, N. C. Grapple. No. 1,015,057; Jan. 16; Sp. p. 4386; Gaz. vol. 174; p. 736.
Mitchell, Frank, Hammersmith, London, England, assignor, by mesne assignments, to Atlantic National Bank, Providence, R. I. Target-practice apparatus. No. 1,015,391; Jan. 23; Sp. p. 5081; Gaz. vol. 174; p. 876.
Mitchell, Fredric P., New York, N. Y. Non-refillable bottle. No. 1,034,484; Aug. 6; Gaz. vol. 181; p. 27.
Mitchell, George R., assignor of one-third to J. W. Smith and one-third to R. Croasdale, Syracuse, N. Y. Pulverizer. No. 1,038,779; Sept. 17; Gaz. vol. 182; p. 611.
Mitchell, Harrison J., assignor to The Berlin Machine Works, Beloit, Wis. Sandpaper-drum. No. 1,016,511; Feb. 6; Sp. p. 628; Gaz. vol. 175; p. 96.
Mitchell, Harrison J., assignor to The Berlin Machine Works, Beloit, Wis. Bearing. No. 1,030,912; July 2; Gaz. vol. 180; p. 21.
Mitchell, Harry J., Wilmerding, Pa. Horse-detaching device. No. 1,015,699; Jan. 23; Sp. p. 5761; Gaz. vol. 174; p. 982.
Mitchell, Harry R., North Yakima, Wash. Permutation-lock. No. 1,029,707; June 18; Sp. p. 3571; Gaz. vol. 179; p. 630.
Mitchell, Hartley A., Newport News, Va. Convertible motor-boat and automobile combined. No. 1,047,271; Dec. 17; Gaz. vol. 185; p. 582.
Mitchell, Henry J., Cincinnati, Ohio. Farm-gate. No. 1,028,588; June 4; Sp. p. 1144; Gaz. vol. 179; p. 174.
Mitchell, Isaac L., Cedar Rapids, Iowa. Oil-burner attachment for stoves. No. 1,018,257; Feb. 20; Sp. p. 4487; Gaz. vol. 175; p. 770.
Mitchell, Jay G., assignor to The North Electric Company, Cleveland, Ohio. Telephone system. No. 1,025,477; May 7; Sp. p. 827; Gaz. vol. 178; p. 129.
Mitchell, Jay G., assignor to The North Electric Company, Cleveland, Ohio. Electric signal-receiving appliance. No. 1,027,351; May 21; Sp. p. 4986; Gaz. vol. 178; p. 840.
Mitchell, Jessie M., Clayton, Miss. Thumb and finger sucking preventer. No. 1,048,569; Dec. 31; Gaz. vol. 185; p. 1093.
Mitchell, John, Ponsonby, New Zealand. Construction of building-walls. No. 1,039,313; Sept. 24; Gaz. vol. 182; p. 811
Mitchell, John E., St. Louis, Mo. Cotton extracting and cleaning machine. No. 1,030,913; July 2; Gaz. vol. 180; p. 21.
Mitchell, John F., Topeka, Kans. Cushion-wheel for vehicles. No. 1,014,244; Jan. 9; Sp. p. 2575; Gaz. vol. 174; p. 429.
Mitchell, John R., Montclair, N. J. Thread-guide. No. 1,030,112; June 18; Sp. p. 4451; Gaz. vol. 179; p. 769.
Mitchell, John S., and S. M. Colburn, assignors to L. S. Donaldson Company, Minneapolis, Minn. Store-counter. No. 1,035,223; Aug. 13; Gaz. vol. 181; p. 305.
Mitchell, John T. H., Chicago, Ill. Advertising device. No. 1,043,243; Nov. 5; Gaz. vol. 184; p. 70.
Mitchell, Leonardine L., London, England. Traveling-case for umbrellas, parasols, and the like. No. 1,031,361; July 2; Gaz. vol. 180; p. 180.
Mitchell, Melvin G., South Bend, Ind., assignor to National Cable & Mfg. Co., Niles, Mich. Lightning-conductor. No. 1,017,308; Feb. 13; Sp. p. 2393; Gaz. vol. 175; p. 407.
Mitchell, Nelson B., and J. W. Taggart, Sr., assignors of one-fourth to U. G. Redelmann, Indianapolis, Ind. Switch-operating mechanism. No. 1,042,812; Oct. 29; Gaz. vol. 183; p. 1193.
Mitchell, Robert, London, England. Roller for sugar-cane mills. No. 1,015,577; Jan. 23; Sp. p. 5492; Gaz. vol. 174; p. 939.
Mitchell, Robert C., Mount Vernon, N. Y. Power-transmission mechanism. No. 1,028,128; June 4; Sp. p. 74; Gaz. vol. 179; p. 16.
Mitchell, Robert J., Marion, Ohio. Automatic air-brake coupling. No. 1,017,442; Feb. 13; Sp. p. 2679; Gaz. vol. 175; p. 453.
Mitchell-Tappen Company. (See Coffey, Barton H., assignor.)
Mitchell, Thomas E., Meaderville, Mont. Dust-receptacle. No. 1,038,413; Sept. 10; Gaz. vol. 182; p. 449.

Alphabetical list of patentees—Continued.

Mitchell Vance Co., The. (See Robb, James T., assignor.)
Mitchell, Walter S., San Francisco, Cal. Removable flooring-strip. No. 1,029,940; June 18; Sp. p. 4091; Gaz. vol. 179; p. 710.
Mitchell, Wickliff B., Bedford, Ind. Ironing-board. No. 1,030,914; July 2; Gaz. vol. 180; p. 22.
Mitchell, William A., Sedalia, Mo. Freight-car ladder. No. 1,043,715; Nov. 5; Gaz. vol. 184; p. 236.
Mitchell, William B., Edgbaston, Birmingham, assignor to W. Mitchell (Pens) Limited, Smethwick, near Birmingham, England. Bobbin-carriage and bobbin of lace machinery. No. 1,015,333; Jan. 23; Sp. p. 4964; Gaz. vol. 174; p. 856.
Mitchell, William C., Sydney, Nova Scotia, Canada. Apparatus for handling coke and similar loose material. No. 1,013,676; Jan. 2; Sp. p. 1293; Gaz. vol. 174; p. 203.
Mitchell, William C., Sydney, Nova Scotia, Canada. Steam-separator. No. 1,013,677; Jan. 2; Sp. p. 1301; Gaz. vol. 174; p. 203.
Mitchell, William C., Sydney, Nova Scotia, Canada. Tilting-pan coke-discharging apparatus. No. 1,024,141; Apr. 23; Sp. p. 5105; Gaz. vol. 177; p. 898.
Mitchell, William M., Louisville, Ky., and G. A. Johnson, Marion, Ind., assignors to Positive Rail Anchor Company, Louisville, Ky. Rail-anchor. No. 1,032,019; July 9; Gaz. vol. 180; p. 447.
Mitchell, William R., Los Angeles, Cal. Carrier and submarine tube for gathering oysters and the like. No. 1,048,194; Dec. 24; Gaz. vol. 185; p. 928.
Mitchell, William W., Chicago, Ill. Meat-chopper. No. 1,021,000; Mar. 26; Sp. p. 4243; Gaz. vol. 176; p. 788.
Mittasch, Alwin. (See Bosch and Mittasch.)
Mittendorff, Louis W., York, Nebr. Nest. No. 1,038,627; Sept. 17; Gaz. vol. 182; p. 558.
Mittineague Paper Company. (See Speed, James, assignor.)
Mittinger, George E., Jr., New Castle, Pa. Shaping sheet metal into bilged barrel-shells. No. 1,042,945; Oct. 29; Gaz. vol. 183; p. 1237.
Mittinger, George E., Jr., New Castle, Pa. Apparatus for making metal bilged barrel-shells. No. 1,042,946; Oct. 29; Gaz. vol. 183; p. 1238.
Mittinger, George E., Jr., New Castle, Pa. Metal keg. No. 1,045,055; Nov. 19; Gaz. vol. 184; p. 761.
Mitts, Philip S., Saginaw, Mich. Oil-groove-cutting attachment for key-seating machines. No. 1,025,152; May 7; Sp. p. 85; Gaz. vol. 178; p. 16.
Mix, Edgar W., Paris, France, assignor to General Electric Company. Automatic regulation of mixed-pressure turbines. No. 1,021,257; Mar. 26; Sp. p. 4784; Gaz. vol. 176; p. 873.
Mixa, Emil, Terryville, Conn. Fish-fork. No. 1,027,269; May 21; Sp. p. 4825; Gaz. vol. 178; p. 813.
Mixter, George W., assignor to Deere & Company, Moline, Ill. Plow. No. 1,032,020; July 9; Gaz. vol. 180; p. 447.
Miyamoto, Mohachi, San Francisco, Cal. Chimney-cleaner. No. 1,040,728; Oct. 8; Gaz. vol. 183; p. 392.
Mladezki, Johan, and P. Wenk, Chicago, Ill. Rubber heel. No. 1,044,222; Nov. 12; Gaz. vol. 184; p. 441.
Mlinar, John, Cleveland, Ohio. Cuspidor. No. 1,043,339; Nov. 5; Gaz. vol. 184; p. 105.
Mlitz, August, Charlottenburg, Germany. Piston lubricating-pump. No. 1,014,840; Jan. 16; Sp. p. 3909; Gaz. vol. 174; p. 663.
Mlitz, August, Charlottenburg, Germany. Slide-closure for vessels. No. 1,020,772; Mar. 19; Sp. p. 3768; Gaz. vol. 176; p. 660.
Mlitz, August, assignor to Vacuum-Adhesine-Gesellschaft m. b. H., Charlottenburg, Germany. Lubricator. No. 1,025,581; May 7; Sp. p. 1072; Gaz. vol. 178; p. 165.
Mlitz, August, assignor to Vacuum-Adhesine-Gesellschaft m. b. H., Charlottenburg, Germany. Steam-lubricator. No. 1,033,339; July 23; Gaz. vol. 180; p. 977.
Mlle. Wolfe Company, The. (See Smith, Goodwin B., assignor.)
Mobberly, John. (See Mobberly, Ora, assignor.)
Mobberly, Ora, assignor of one-third to J. Mobberly, Corbin, Ky. Wheel. No. 1,037,652; Sept. 3; Gaz. vol. 182; p. 159.
Moberg, John E., Stillwater, Minn. Padlock. No. 1,028,246; June 4; Sp. p. 410; Gaz. vol. 179; p. 58.
Moberg, Oscar, assignor to Landers, Frary & Clark, New Britain, Conn. Roll-holder. No. 1,045,311; Nov. 26; Gaz. vol. 184; p. 878.
Mobley, Grier P., San Antonio, Tex. Wireless break-key. No. 1,048,849; Dec. 31; Gaz. vol. 185; p. 1192.
Moch, Eugene W., New York, N. Y. Machine for trimming plume-stems. No. 1,032,416; July 16; Gaz. vol. 180; p. 626.
Moch, Eugene W., New York, N. Y. Machine for splitting plume-stems. No. 1,032,417; July 16; Gaz. vol. 180; p. 627.
Moch, Eugene W., New York, N. Y. Machine for splitting plume-stems. No. 1,032,418; July 16; Gaz. vol. 180; p. 627.
Mochizuki, Masaharu. (See Akahori and Mochizuki.)
Mock, Charles M., Kenilworth, A. U. Gerber and H. Cordell, Chicago, Ill. Piston-actuated mechanism. No. 1,023,267; Apr. 16; Sp. p. 3269; Gaz. vol. 177; p. 584.
Mock, Frederick W., Milroy, Ind. Spring for gates, &c. No. 1,019,822; Mar. 12; Sp. p. 1744; Gaz. vol. 176; p. 305.
Mock, Winfield S., Edgewood, assignor of one-half to R. A. Robinson, Swissvale, Pa. Electric rat-trap. No. 1,045,584; Nov. 26; Gaz. vol. 184; p. 975.
Mode, Marshall M., Cameron, Tex. Cotton-compress. No. 1,038,934; Sept. 17; Gaz. vol. 182; p. 665.
Model Bottling Machinery Company, The. (See Wagner, Edward, assignor.)
Model Manufacturing Company. (See Johnston, Harry B., assignor.)
Model, Wilhelm A., Feuerbach, near Stuttgart, Germany. Freezer. No. 1,032,561; July 16; Gaz. vol. 180; p. 674.
Model, Wilhelm A., Feuerbach, near Stuttgart, Germany. Machine for making ice-cream. No. 1,036,677; Aug. 27; Gaz. vol. 181; p. 876.
Modern Compressed Air Cleaning Company. (See Overholt, Edwin E., assignor.)
Modern Pen Company. (See Marcucci, Marius, assignor.)
Modoc Development Company. (See Dickenson, William J. A., assignor.)
Modry, August M., New York, N. Y. Carriage-window. No. 1,037,164; Aug. 27; Gaz. vol. 181; p. 1038.
Moe, Eldor H., Salt Lake City, Utah. Electric fire-alarm. No. 1,019,270; Mar. 5; Sp. p. 577; Gaz. vol. 176; p. 92.
Moe, John P. (See Carpenter, Columbus C., assignor.)
Moe, Peter S., Creston, Wash. Brake mechanism. No. 1,022,252; Apr. 2; Sp. p. 1056; Gaz. vol. 177; p. 168.
Moe, Sivert, Chicago, Ill. Mangle for small articles. No. 1,016,028; Jan. 30; Sp. p. 6455; Gaz. vol. 174; p. 1123.
Moebes, August, Jr., and A. H. W. Weber, San Francisco, Cal. Box-lid holder. No. 1,025,582; May 7; Sp. p. 1073; Gaz. vol. 178; p. 166.
Moebs, Oliver G. (See Schneider, Walter C., assignor.)
Moege, Wilhelm, Parkston, S. D. Latch. No. 1,021,258; Mar. 26; Sp. p. 4786; Gaz. vol. 176; p. 874.
Moeller, Franklin. (See Pitkin and Moeller.)
Moeller, Henry. (See Kieweg, Moeller, and Wagner.)
Moeller, Henry, New York, N. Y. Cooling device. No. 1,014,893; Jan. 16; Sp. p. 4025; Gaz. vol. 174; p. 680.
Moeller, Henry A., Central Falls, R. I. Illuminating-sign for automobiles. No. 1,044,223; Nov. 12; Gaz. vol. 184; p. 442.
Moeller, William J., Wyoming, assignor to The Philip Carey Manufacturing Company, Lockland, Ohio. Insulator-covering. No. 1,020,567; Mar. 19; Sp. p. 3313; Gaz. vol. 176; p. 592.
Moeller, William J., Wyoming, assignor to The Philip Carey Manufacturing Company, Lockland, Ohio. Roofing material. No. 1,044,558; Nov. 19; Gaz. vol. 184; p. 587.
Moeller, William J., Wyoming, assignor to The Philip Carey Manufacturing Company, Lockland, Ohio. Tile roofing-cement and making same. No. 1,045,585; Nov. 26; Gaz. vol. 184; p. 976.
Moenck, Herman M., assignor of one-half to G. B. Streit, Detroit, Mich. Butter-dish. No. 1,041,659; Oct. 15; Gaz. vol. 183; p. 735.
Moenus Machine Company. (See Crain and Heckmann, assignors.)
Moenus Machine Works. (See Böhaček, Paul, assignor.)
Moest, Martin. (See Berneck, Moest, and Graf.)
Moest, Martin, and R. M. von Berneck, assignors to Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany. Treating nitric acid by electrolysis. No. 1,040,379; Oct. 8; Gaz. vol. 183; p. 267.
Moewes, Ernst, Marienfelde, near Berlin, and A. Vischer, Cannstatt, assignors to Daimler Motorengesellschaft, Untertürkheim, near Stuttgart, Germany. Internal-combustion engine. No. 1,024,862; Apr. 30; Sp. p. 6720; Gaz. vol. 177; p. 1183.
Moffat, Andrew M., Frankfort, Ky. Canteen. No. 1,047,681; Dec. 17; Gaz. vol. 185; p. 728.
Moffat, William S., Pittsburgh, Pa., assignor to Berbecker & Rowland Manufacturing Company, Waterville, Conn. Curtain-pole bracket. No. 1,033,440; July 23; Gaz. vol. 180; p. 1010.
Moffet, Alvus H., Larned, Kans. U-shaped track-fastening. No. 1,014,083; Jan. 9; Sp. p. 2222; Gaz. vol. 174; p. 372.
Moffet, Alvus H., Larned, Kans. Rail-fastening. No. 1,014,084; Jan. 9; Sp. p. 2223; Gaz. vol. 174; p. 372.
Moffet, Alvus H., Larned, Kans. Concrete tie. No. 1,014,085; Jan. 9; Sp. p. 2224; Gaz. vol. 174; p. 373.
Moffet, Alvus H., Larned, Kans. Rail-fastening. No. 1,014,086; Jan. 9; Sp. p. 2225; Gaz. vol. 174; p. 373.
Moffet, Alvus H., Larned, Kans. Rail-fastening. No. 1,014,087; Jan. 9; Sp. p. 2227; Gaz. vol. 174; p. 373.
Moffet, Alvus H., Larned, Kans. Rail-fastening. No. 1,014,088; Jan. 9; Sp. p. 2228; Gaz. vol. 174; p. 373.
Moffet, Alvus H., Larned, Kans. Tie structure. No. 1,014,089; Jan. 9; Sp. p. 2230; Gaz. vol. 174; p. 374.
Moffet, Alvus H., Larned, Kans. Rail-fastening. No. 1,014,090; Jan. 9; Sp. p. 2231; Gaz. vol. 174; p. 374.
Moffet, Alvus H., Larned, Kans. Track-fastening. No. 1,014,166; Jan. 9; Sp. p. 2388; Gaz. vol. 174; p. 399.
Moffet, Alvus H., Larned, Kans. Rail-fastening means. No. 1,042,462; Oct. 29; Gaz. vol. 183; p. 1071.
Moffet, William G., Chicago, Ill. Machine for testing cans. No. 1,032,926; July 16; Gaz. vol. 180; p. 798.

Alphabetical list of patentees—Continued.

Moffet, William G., Chicago, Ill. Vending-machine. No. 1,047,549; Dec. 17; Gaz. vol. 185; p. 679.
Moffett, Allison. (See Francis and Moffett.)
Moffitt, Allison, Galeton, Pa. Vehicle-spring. No. 1,023,865; Apr. 23; Sp. p. 4478; Gaz. vol. 177; p. 802.
Moffitt, Eugenia A., administratrix. (See Moffitt, John R.)
Moffitt, John R., deceased; E. A. Moffitt, administratrix, Denver, Colo. Metallurgical furnace. No. 1,014,971; Jan. 16; Sp. p. 4202; Gaz. vol. 174; p. 707.
Mogyorosi, Steven, Stamford, Conn. Rail-tie or sleeper. No. 1,029,211; June 11; Sp. p. 2474; Gaz. vol. 179; p. 421.
Mohan, John, Philadelphia, Pa. Nut-lock. No. 1,042,584; Oct. 29; Gaz. vol. 183; p. 1114.
Mohawk Valley Cap Factory *et al.* (See Eberley, George W., assignor.)
Mohney, Blair L., McKeesport, Pa. Clothes-rack. No. 1,046,319; Dec. 3; Gaz. vol. 185; p. 181.
Mohr, Benjamin F., Mifflinburg, Pa. Pump. No. 1,031,362; July 2; Gaz. vol. 180; p. 180.
Mohr, Charles L., Janesville, Wis., assignor to Mohr Manufacturing Company, Chicago, Ill. Attachment for linotype-machines. No. 1,036,678; Aug. 27; Gaz. vol. 181; p. 876.
Mohr Manufacturing Company. (See Mohr, Charles L., assignor.)
Mohr, James, and S. Mattox, Wilson Creek, Wash. Cattle-guard. No. 1,045,727; Nov. 26; Gaz. vol. 184; p. 1026.
Mohrherr, John, Fairview, Mont. Cattle-poke. No. 1,034,816; Aug. 6; Gaz. vol. 181; p. 140.
Mohrman, August W. (See Peterson and Mohrman.)
Moine, Emile F. (See Burdy and Moine.)
Moir, John W., Wayne, Pa. Nose-bag. No. 1,035,991; Aug. 20; Gaz. vol. 181; p. 604.
Moïse, Harmon D., Sumter, S. C. Flush-tank apparatus. No. 1,023,522; Apr. 16; Sp. p. 3761; Gaz. vol. 177; p. 665.
Möise, Harmon D., Sumter, S. C. Flush-tank elbow. No. 1,037,165; Aug. 27; Gaz. vol. 181; p. 1038.
Moïse, Harmon D., Sumter, S. C. Gate-latch. No. 1,044,684; Nov. 19; Gaz. vol. 184; p. 633.
Moise, Lionel H., San Francisco, Cal. Hand-stamp holder. No. 1,034,485; Aug. 6; Gaz. vol. 181; p. 28.
Moise, Lionel H., San Francisco, Cal. Illuminated sign. No. 1,047,973; Dec. 24; Gaz. vol. 185; p. 854.
Molard, William. (See Rosedale, Adolph, assignor.)
Molcar, John J., Forest Park, Ill. Reel. No. 1,014,322; Jan. 9; Sp. p. 2734; Gaz. vol. 174; p. 455.
Moldenhauer, Frank O. (See Roth and Moldenhauer.)
Moldenhauer, Wilhelm, *et al.* (See Weber, Oskar H. and K., assignors.)
Molencki, Edward, Detroit, Mich. Curtain-pole. No. 1,021,064; Mar. 26; Sp. p. 4371; Gaz. vol. 176; p. 811.
Molesworth, Clyde E., Portland, Oreg. Means for heating fluids. No. 1,035,992; Aug. 20; Gaz. vol. 181; p. 605.
Molin, Arthur E., Rockford, Ill. Screen-door check or the like. No. 1,044,225; Nov. 12; Gaz. vol. 184; p. 442.
Molina, Edward C., East Orange, N. J., assignor to American Telephone and Telegraph Company. Controlling apparatus. No. 1,039,988; Oct. 1; Gaz. vol. 183; p. 105.
Molinares, Antonio, assignor of one-half to J. Senior, Barranquilla, Colombia. Amusement device. No. 1,034,922; Aug. 6; Gaz. vol. 181; p. 174.
Moline, Bennie. (See Gress and Moline.)
Moline Plow Company. (See Lindgren, Alexus C., assignor.)
Moline Plow Company. (See Lindgren, August, assignor.)
Moll, Bernhard C., Chicago, Ill. Dental mold. No. 1,037,962; Sept. 10; Gaz. vol. 182; p. 298.
Moll, Theodore W. (See Moll, William and T. W.)
Moll, William and T. W., Cleveland, Ohio. Steam-trap. No. 1,013,507; Jan. 2; Sp. p. 909; Gaz. vol. 174; p. 145.
Mollberg, Louis, A. G. Storen, and J. O. Storén, Brooklyn, N. Y. Sleeve-form. No. 1,018,724; Feb. 27; Sp. p. 5547; Gaz. vol. 175; p. 960.
Möllenhoff, Carl, Leverkusen, near Cologne, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Production of alizarin. No. 1,036,880; Aug. 27; Gaz. vol. 181; p. 943.
Möllenhoff, Carl, Leverkusen, near Cologne, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Production of alizarin from anthraquinone. No. 1,036,881; Aug. 27; Gaz. vol. 181; p. 943.
Mollinger, Alexander J., Nymegen, Netherlands. Two-wheeled roller-skate. No. 1,043,958; Nov. 12; Gaz. vol. 184; p. 352.
Mollinger, Théodore G., The Hague, Netherlands, assignor, by mesne assignments, to General Sterilizing Company, Wilmington, Del. Apparatus for the sterilization of milk or other liquids. No. 1,045,056; Nov. 19; Gaz. vol. 184; p. 761.
Molloy, Mark T., Joplin, Mo. Strainer. No. 1,027,623; May 28; Sp. p. 5539; Gaz. vol. 178; p. 969.
Molloy, Thomas F., West Haven, Conn. Buckle. No. 1,049,127; Dec. 31; Gaz. vol. 185; p. 1288.
Molnar, Ernest, Cleveland, Ohio. Air-navigating machine. No. 1,031,807; July 9; Gaz. vol. 180; p. 375.
Molnár, Joseph, Trenton, N. J. Switch-throwing device. No. 1,022,863; Apr. 9; Sp. p. 2369; Gaz. vol. 177; p. 405.
Molnár, Steve, assignor of one-fourth to M. Kosztotanyi, one-fourth to J. Pentek, and one-fourth to C. Kuhn, Homestead, Pa. Rat-trap. No. 1,029,551; June 11; Sp. p. 3213; Gaz. vol. 179; p. 538.
Moloney Electric Company. (See Mullen, James J., assignor.)
Moloney, Matthew, Christchurch, New Zealand. Telephone-transmitter. No. 1,022,253; Apr. 2; Sp. p. 1058; Gaz. vol. 177; p. 169.
Moloney, William J., Oakland, Cal. Car-stake. No. 1,022,105; Apr. 2; Sp. p. 744; Gaz. vol. 177; p. 119.
Moltrup, James T., Beaver Falls, Pa. Metal-storage system. No. 1,029,139; June 11; Sp. p. 2323; Gaz. vol. 179; p. 396.
Moluf, Knut, Benson, Nebr. Operating mechanism for barbers' chairs. No. 1,031,808; July 9; Gaz. vol. 180; p. 375.
Molyneux, George E., Bayonne, N. J., assignor to The Singer Manufacturing Company. Sewing-machine. No. 1,013,204; Jan. 2; Sp. p. 231; Gaz. vol. 174; p. 39.
Molyneux, George E., Bayonne, N. J., assignor to The Singer Manufacturing Company. Sewing-machine. No. 1,024,691; Apr. 30; Sp. p. 6365; Gaz. vol. 177; p. 1121.
Mominee, Charles J., assignor to H. I. Mominee, Toledo, Ohio. Portable car-chute. No. 1,021,741; Mar. 26; Sp. p. 5783; Gaz. vol. 176; p. 1038.
Mominee, Herman I. (See Mominee, Charles J., assignor.)
Monaghan Mills. (See Jones, George H., assignor.)
Monaghan, Thomas L., New York, N. Y. Swimming mitt or glove. No. 1,023,581; Apr. 16; Sp. p. 3885; Gaz. vol. 177; p. 684.
Monahan, Louis J., assignor to Termaat & Monahan Co., Oshkosh, Wis. Governor for explosive-engines. No. 1,021,879; Apr. 2; Sp. p. 278; Gaz. vol. 177; p. 45.
Monahan, Louis J., and R. Ziebell, Oshkosh, Wis. Molding-machine. No. 1,029,079; June 11; Sp. p. 2184; Gaz. vol. 179; p. 376.
Monarch Machinery Co. (See Bushnell, Oscar P., assignor.)
Monarch Metal Weather Strip Company. (See Lane, Alfred M., assignor.)
Monarch Rotary Engine Company. (See Aabel, John T., assignor.)
Monarch Steam Blower Company. (See Bradley, William J., assignor.)
Monarch Telephone Manufacturing Company. (See Fricke, William A., assignor.)
Monarch Typewriter Company, The. (See Barney, Edwin E., assignor.)
Monarch Typewriter Company, The. (See Bond, Charles J., assignor.)
Monarch Typewriter Company, The. (See Coo, Thomas J., assignor.)
Monarch Typewriter Company, The. (See Fallenstein, Rudolf, assignor.)
Monarch Typewriter Company, The. (See Harry, Spencer P., assignor.)
Monarch Typewriter Company, The. (See Hull, Oakley, E., assignor.)
Monarch Typewriter Company, The. (See Judd, John F., assignor.)
Monarch Typewriter Company, The. (See Purdy, John, assignor.)
Monarch Typewriter Company, The. (See Richardson, Daniel J., assignor.)
Monarch Typewriter Company, The. (See Seib, George A., assignor.)
Monarch Typewriter Company, The. (See Seidelinger, Robie, assignor.)
Monarch Typewriter Company, The. (See Steele, Herbert H., assignor.)
Monarch Typewriter Company, The. (See Woodward, Horace L., assignor.)
Monarch Typewriter Company, The. (See Wyckoff, Lynn B., assignor.)
Monard, Alfred, Paris, France. Water-meter with revolving piston. No. 1,026,992; May 21; Sp. p. 4212; Gaz. vol. 178; p. 718.
Moncrief, Stephen P., Atlanta, Ga. Self-feeding warm-air furnace. No. 1,022,965; Apr. 9; Sp. p. 2596; Gaz. vol. 177; p. 441.
Mondry, Peter, Amsterdam, N. Y. Portable grist-mill. No. 1,038,935; Sept. 17; Gaz. vol. 182; p. 665.
Monell, Ira F., Boulder, Colo. Ore-concentrator. No. 1,013,205; Jan. 2; Sp. p. 234; Gaz. vol. 174; p. 40.
Monell, Ira F., Boulder, Colo. Concentrator. No. 1,033,260; July 23; Gaz. vol. 180; p. 951.
Monell, Ira F., Boulder, Colo. Ore concentrator or slimer. No. 1,041,842; Oct. 22; Gaz. vol. 183; p. 835.
Moneuse, Alphonse F., New Rochelle, N. Y. Coffee and tea urn. No. 1,015,058; Jan. 16; Sp. p. 4387; Gaz. vol. 174; p. 736.
Moneuse, Alphonse F., New Rochelle, N. Y. Coffee or tea urn. No. 1,029,392; June 11; Sp. p. 2896; Gaz. vol. 179; p. 483.
Money, Benjamin F. (See Iley and Money.)
Money, Robert L. (See Iley and Money.)
Mongardi, Giovanni, Boston, Mass. Rope or cord coupling. No. 1,036,679; Aug. 27; Gaz. vol. 181; p. 877.

Alphabetical list of patentees—Continued.

Mongen, Paul, Mülheim-on-the-Rhine, Germany. Mold-drying stove. No. 1,027,210; May 21; Sp. p. 4713; Gaz. vol. 178; p. 791.
Monhaupt, Max, Altona-Ottensen, Germany. Manufacture of edible products from bassia seeds. No. 1,030,674; June 25; Sp. p. 5896; Gaz. vol. 179; p. 1007.
Monitor Drill Company, The. (See Brennan, Thomas, Jr., assignor.)
Monitor Drill Company, The. (See Rieske, Otto G., assignor.)
Monitor Drill Company, The. (See Stainfield and Beeman, assignors.)
Monitor Gas Generator Company. (See Kilburn, Fairley, Kidner, Irvine, and Chestnut, assignors.)
Monitor Manufacturing Company. (See Whittingham, George H., assignor.)
Monk, William, Newark, N. J. Reversing mechanism. No. 1,042,585; Oct. 29; Gaz. vol. 183; p. 1114.
Monks-Ripley Pile Company. (See Ripley, John W., assignor.)
Monmonier, Julius W., and J. H. Morehead, Globe, Ariz. Self-weighing scoop. No. 1,034,486; Aug. 6; Gaz. vol. 181; p. 28.
Monnot, John F., Paris, France. Electric heater. No. 1,014,662; Jan. 16; Sp. p. 3506; Gaz. vol. 174; p. 601.
Monnot, John F., Paris, France, assignor to Duplex Metals Company, New York, N. Y. Producing coated metal objects. No. 1,042,586; Oct. 29; Gaz. vol. 183; p. 1115.
Monogram Construction Company. (See Harms and Small, assignors.)
Monosmith, David J., Spencer, Ohio. Incandescing element. No. 1,030,787; June 25; Sp. p. 6197; Gaz. vol. 179; p. 1048.
Monro, Arthur R., and H. Beatty, Berkeley, Cal. Equilibrium attachment for aeroplanes. No. 1,014,082; Jan. 9; Sp. p. 2219; Gaz. vol. 174; p. 372.
Monroe, Henry A., Astoria, Oreg. Fish-net reel. No. 1,038,414; Sept. 10; Gaz. vol. 182; p. 449.
Monroe, Jefferson P., *et al.* (See Elkin, Warren, assignor.)
Monroe, John W. (See Monroe, Robert L., assignor.)
Monroe, Levi G. (See Wessels, Martin J., assignor.)
Monroe, Nathaniel S., Arthur, Ill. Road-leveling device. No. 1,015,820; Jan. 30; Sp. p. 6003; Gaz. vol. 174; p. 1049.
Monroe, Orville V., Los Angeles, Cal. Pen-wiper. No. 1,041,326; Oct. 15; Gaz. vol. 183; p. 626.
Monroe, Robert L., assignor of one-half to J. W. Monroe, Sioux City, Iowa. Electrically-operated balancing mechanism for aeroplanes. No. 1,047,827; Dec. 17; Gaz. vol. 185; p. 777.
Monroe, Will K., assignor to The Brown Hoisting Machinery Company, Cleveland, Ohio. Apparatus for screening coal. No. 1,023,582; Apr. 16; Sp. p. 3886; Gaz. vol. 177; p. 685.
Monsarrat, Charles N., *et al.* (See Motley, Phillips B., assignor.)
Monsees, Dietrich G., Sedalia, Mo. Adjustable casing-spear. No. 1,045,728; Nov. 26; Gaz. vol. 184; p. 1027.
Monson, David, Belview, Minn. Wire-fastener. No. 1,014,245; Jan. 9; Sp. p. 2577; Gaz. vol. 174; p. 429.
Montague Mailing Machinery Company. (See Chambers, George A., assignor.)
Montague Mailing Machinery Company. (See Lee, Ulysses G., assignor.)
Montague, Theodore H., Blue Island, Ill. Dental articulator. No. 1,045,586; Nov. 26; Gaz. vol. 184; p. 976.
Montanye, Stanley S., Johnstown, Pa. Filter. No. 1,028,377; June 4; Sp. p. 686; Gaz. vol. 179; p. 104.
Montclair Manufacturing and Machine Company. (See McCabe, John S., assignor.)
Montel, Alva, Claypool, Ind. Automobile. No. 1,035,461; Aug. 13; Gaz. vol. 181; p. 389.
Montelius, Ernst E. L., *et al.* (See Nilsson, Otto, assignor.)
Montgomery, Arthur W., assignor of one-third to F. A. Rivers and one-third to O. Swanson, Helena, Mont. Window-shade bracket. No. 1,027,270; May 21; Sp. p. 4826; Gaz. vol. 178; p. 813.
Montgomery, Frederick D., Chicago, Ill. Producing color-type engravings. No. 1,027,142; May 21; Sp. p. 4581; Gaz. vol. 178; p. 770.
Montgomery, Glen F., Oak Hill, Fla. Funnel. No. 1,045,312; Nov. 26; Gaz. vol. 184; p. 878.
Montgomery, Harriet I., *et al.*, administrators. (See Montgomery, John A.)
Montgomery, Harry B., Harrisburg, Pa. Resilient tire. No. 1,022,966; Apr. 9; Sp. p. 2598; Gaz. vol. 177; p. 441.
Montgomery, Henry J., Silver Creek, N. Y. Locking device for beds. No. 1,030,008; June 18; Sp. p. 4220; Gaz. vol. 179; p. 731.
Montgomery, Hiram W., Santa Monica, Cal. Suspensory. No. 1,017,897; Feb. 20; Sp. p. 3715; Gaz. vol. 175; p. 646.
Montgomery, Jesse H., Los Angeles, Cal. Device for flexing or crowning the sounding-boards of pianos. No. 1,048,195; Dec. 24; Gaz. vol. 185; p. 928.
Montgomery, John A., deceased, Walton, N. Y.; H. I., W. H., and M. C. Montgomery, administrators. Cow-stable. No. 1,033,441; July 23; Gaz. vol. 180; p. 1010.
Montgomery, Maxwell C., *et al.*, administrators. (See Montgomery, John A.)
Montgomery, Robert J., and W. H. Hill, assignors to Sanitax Brush Company, Chicago, Ill. Brush. No. 1,013,558; Jan. 2; Sp. p. 1016; Gaz. vol. 174; p. 163.
Montgomery, Thomas A., *et al.* (See Scow, Louis E., assignor.)
Montgomery, Thomas E., *et al.* (See Scow, Louis E., assignor.)
Montgomery, Walter L., Chicago, Ill. Conveying and feeding mechanism. No. 1,028,766; June 4; Sp. p. 1504; Gaz. vol. 179; p. 234.
Montgomery, William H., *et al.*, administrators. (See Montgomery, John A.)
Montgomery, William J., Crenshaw, Miss. Wire-fence stretcher. No. 1,023,749; Apr. 16; Sp. p. 4184; Gaz. vol. 177; p. 735.
Montilli, Leonardo. (See Rogati and Montilli.)
Montsabré, Philippe, Fresno, Cal. Endless tracks mounted on wheeled carriers. No. 1,017,443; Feb. 13; Sp. p. 2681; Gaz. vol. 175; p. 454.
Moodie, Robert P., and C. W. Ball, Ottawa, Ontario, Canada. Stand for electric heaters and irons. No. 1,026,596; May 14; Sp. p. 3290; Gaz. vol. 178; p. 544.
Moody, Fred M., Whitman, Mass., assignor, by mesne assignments, to United Shoe Machinery Company, Paterson, N. J. Machine for randing and cutting in the shanks of shoes. No. 1,048,196; Dec. 24; Gaz. vol. 185; p. 928.
Moody, John R., Salem, Oreg. Registering mechanism for doors. No. 1,023,217; Apr. 16; Sp. p. 3162; Gaz. vol. 177; p. 566.
Moody, Walter S., Pittsfield, Mass., assignor to General Electric Company. High-voltage transformer. No. 1,019,512; Mar. 5; Sp. p. 1165; Gaz. vol. 176; p. 172.
Moody, William O., Chicago, Ill. Relief-valve. No. 1,037,509; Sept. 3; Gaz. vol. 182; p. 113.
Moomaw, Henry E., Salem, Va. Sheet-metal roofing-plate. No. 1,021,844; Apr. 2; Sp. p. 202; Gaz. vol. 177; p. 33.
Moon, Clyde, McDonald, assignor of three-eighths to O. Alexander, Mount Hope, and one-fourth to B. Walace, Thayer, W. Va. Covering for wire. No. 1,034,276; July 30; Gaz. vol. 180; p. 1322.
Moon, Edward W., St. Louis, Mo., assignor to Otis Elevator Company, Jersey City, N. J. Combined electrical and mechanical brake for elevators. No. 1,047,272; Dec. 17; Gaz. vol. 185; p. 582.
Moon-Hopkins Billing Machine Company. (See Hopkins, Hubert, assignor.)
Moon-Hopkins Billing Machine Company. (See Hopkins, William W., assignor.)
Moon-Hopkins Billing Machine Company. (See Thieme, Otto, assignor.)
Moon-Hopkins Billing Machine Company. (See Wageley, Robert E., assignor.)
Moon, John W. (See Moon, Wesley J. and J. W.)
Moon, Richard D., and H. J. Horne, San Angelo, Tex. Windmill. No. 1,015,505; Jan. 23; Sp. p. 5331; Gaz. vol. 174; p. 914.
Moon, Rupert A. (See Pack and Moon.)
Moon, Wesley J. and J. W., Hayden Hill, Old Hill, England. Manufacturing metal tubes. No. 1,026,103; May 14; Sp. p. 2246; Gaz. vol. 178; p. 378.
Moon, Wesley J., Economy, and J. W. Moon, Conshohocken, Pa. Apparatus for manufacturing metal tubes. No. 1,026,275; May 14; Sp. p. 2606; Gaz. vol. 178; p. 437.
Moon, William B., Sandusky, Ohio. Total-adding weighing-scale. No. 1,040,380; Oct. 8; Gaz. vol. 183; p. 267.
Moon, William B., Sandusky, Ohio. Counting-machine. No. 1,046,835; Dec. 10; Gaz. vol. 185; p. 401.
Moonelis, Adolph, New York, N. Y. Artificial tobacco and making same. No. 1,016,844; Feb. 6; Sp. p. 1347; Gaz. vol. 175; p. 208.
Mooney, Benjamin F., Findlay, Ohio. Duet piano-bench. No. 1,028,767; June 4; Sp. p. 1505; Gaz. vol. 179; p. 234.
Mooney, Edward L., assignor of one-half to P. W. Wirth, Minneapolis, Minn. Safe. No. 1,045,729; Nov. 26; Gaz. vol. 184; p. 1027.
Mooney, John J., New York, N. Y. Water-tube boiler. No. 1,042,709; Oct. 29; Gaz. vol. 183; p. 1158.
Mooney, Lawrence C., Montgomery, Ala. Cross-tie. No. 1,016,845; Feb. 6; Sp. p. 1350; Gaz. vol. 175; p. 208.
Mooney, Lawrence C., Montgomery, Ala. Locomotive front end. No. 1,026,920; May 21; Sp. p. 4040; Gaz. vol. 178; p. 693.
Mooney, Timothy, Yorkville, N. Y. Loom-shuttle. No. 1,023,952; Apr. 23; Sp. p. 4687; Gaz. vol. 177; p. 832.
Mooney, William A., La Cygne, Kans. Railway-spike. No. 1,025,009; Apr. 30; Sp. p. 7019; Gaz. vol. 177; p. 1233.
Moor, Harry, Philadelphia, Pa., assignor of one-half to T. G. Coulter, Camden, N. J. Furnace. No. 1,044,559; Nov. 19; Gaz. vol. 184; p. 587.
Moore, Alexander, Christchurch, New Zealand. Life-belt. No. 1,045,164; Nov. 26; Gaz. vol. 184; p. 827.
Moore, Alexander T., New Orleans, La. Treating fabrics. No. 1,019,909; Mar. 12; Sp. p. 1938; Gaz. vol. 176; p. 336.

Alphabetical list of patentees—Continued.

Moore, Alfred M., Malden, and C. M. Moore, Everett, Mass. Shoe-shank stiffener. No. 1,014,894; Jan. 16; Sp. p. 4026; Gaz. vol. 174; p. 681.
Moore Architectural and Engineering Company. (See Heller, Charles S., assignor.)
Moore, Calvin, Providence, Iowa. Grain-car door. No. 1,014,246; Jan. 9; Sp. p. 2577; Gaz. vol. 174; p. 429.
Moore Carving Machine Company. (See Mary and Lambert, assignors.)
Moore, Charles A., St. Paul, Minn. Refrigerator-car. No. 1,035,805; Aug. 13; Gaz. vol. 181; p. 504.
Moore, Charles A., St. Paul, Minn., assignor to Moore Patent Car Company. Heater-car. No. 1,016,243; Jan. 30; Sp. p. 6880; Gaz. vol. 174; p. 1195.
Moore, Charles A., St. Paul, Minn., assignor to Moore Patent Car Co. Refrigerator-car. No. 1,030,524; June 25; Sp. p. 5427; Gaz. vol. 179; p. 953.
Moore, Charles A., Borderland, assignor of one-half to C. J. Adams, Hatfield, W. Va. Automatic safety-valve. No. 1,032,849; July 16; Gaz. vol. 180; p. 774.
Moore, Charles B., Lake Forest, assignor to American Locomotive Equipment Co., Chicago, Ill. Locomotive-journal lubricator. No. 1,046,002; Dec. 3; Gaz. vol. 185; p. 70.
Moore, Charles B., Lake Forest, assignor to American Locomotive Equipment Co., Chicago, Ill. Locomotive-journal lubricator. No. 1,046,003; Dec. 3; Gaz. vol. 185; p. 70.
Moore, Charles C., Lexington, Ky. Producing starch and glucose. No. 1,016,761; Feb. 6; Sp. p. 1181; Gaz. vol. 175; p. 182.
Moore, Charles C., Washington, D. C. Treating cassava and products thereof. No. 1,016,762; Feb. 6; Sp. p. 1184; Gaz. vol. 175; p. 182.
Moore, Charles R., La Fayette, Ind. Timing mechanism. No. 1,033,030; July 16; Gaz. vol. 180; p. 833.
Moore, Charles S., Danvers, Mass. Shock-absorbing device. No. 1,041,843; Oct. 22; Gaz. vol. 183; p. 835.
Moore, Charles W., Oswego, S. C. Churn. No. 1,046,320; Dec. 3; Gaz. vol. 185; p. 182.
Moore, Chester M. (See Moore, Alfred M. and C. M.)
Moore, Clarence L., Allenhurst, N. J. Aeroplane. No. 1,019,987; Mar. 12; Sp. p. 2092; Gaz. vol. 176; p. 361.
Moore, Daniel M., Newark, N. J., assignor to Moore Electrical Company, New York, N. Y. Hand-fire for making joints in vacuum-tube lamps. No. 1,014,247; Jan. 9; Sp. p. 2580; Gaz. vol. 174; p. 430.
Moore, Daniel M., Newark, N. J., assignor to Moore Electrical Co., New York, N. Y. Electrically-operated vacuum-tube. No. 1,020,109; Mar. 12; Sp. p. 2353; Gaz. vol. 176; p. 403.
Moore, Daniel M., Newark, N. J., assignor to Moore Electrical Co., New York, N. Y. Terminal for gas and vapor electric apparatus. No. 1,020,110; Mar. 12; Sp. p. 2357; Gaz. vol. 176; p. 403.
Moore, Daniel M., Newark, N. J., assignor to General Electric Company. Fixture for vacuum-tube lamps. No. 1,028,092; May 28; Sp. p. 6605; Gaz. vol. 178; p. 1125.
Moore, Daniel M., Newark, N. J., assignor to General Electric Company. Vacuum-tube lamp. No. 1,032,562; July 16; Gaz. vol. 180; p. 675.
Moore, Daniel M., Newark, N. J., assignor to General Electric Company. Vacuum-tube lighting. No. 1,032,927; July 16; Gaz. vol. 180; p. 799.
Moore, Daniel M., Newark, N. J., assignor to General Electric Company. Vacuum-tube electric-lighting apparatus. No. 1,032,928; July 16; Gaz. vol. 180; p. 799.
Moore, Daniel M., Newark, N. J., assignor to General Electric Company. Vacuum-tube lamp. No. 1,034,923; Aug. 6; Gaz. vol. 181; p. 174.
Moore, Daniel M., Newark, N. J., assignor to General Electric Company. Gas-feed valve for vacuum-tubes. No. 1,035,894; Aug. 20; Gaz. vol. 181; p. 573.
Moore, Daniel M., Newark, N. J., assignor to General Electric Company. Vacuum-tube lighting. No. 1,037,290; Sept. 3; Gaz. vol. 182; p. 37.
Moore, Daniel M., Newark, N. J., assignor to General Electric Company. Vacuum-tube lighting. No. 1,042,587; Oct. 29; Gaz. vol. 183; p. 1115.
Moore, Daniel M., Newark, N. J., assignor to General Electric Company. Vacuum-tube lamp. No. 1,046,004; Dec. 3; Gaz. vol. 185; p. 70.
Moore, David P. (See Beale and Moore.)
Moore, De Witt C., *et al.* (See Foster, Oliver M., assignor.)
Moore, Edward. (See Wilson, James E., assignor.)
Moore, Edward Y., Cleveland, Ohio. Switch for trolley-trackways. No. 1,015,578; Jan. 23; Sp. p. 5493; Gaz. vol. 174; p. 940.
Moore, Edward Y., Cleveland, Ohio. Hoist. No. 1,035,030; Aug. 6; Gaz. vol. 181; p. 209.
Moore, Edward Y., Cleveland, Ohio. Trolley. No. 1,036,505; Aug. 20; Gaz. vol. 181; p. 786.
Moore, Edward Y., Cleveland, Ohio. Trackway for overhead trolleys. No. 1,037,036; Aug. 27; Gaz. vol. 181; p. 995.
Moore, Edward Y., and M. Mulholland, Cleveland, Ohio; said Moore assignor to said Mulholland. Hatch-cover fastener. No. 1,019,343; Mar. 5; Sp. p. 750; Gaz. vol. 176; p. 117.
Moore, Edwin, assignor to Moore Push-Pin Company, Philadelphia, Pa. Hanger. No. 1,049,128; Dec. 31; Gaz. vol. 185; p. 1288.
Moore Electrical Company. (See Moore, Daniel M., assignor.)
Moore, Elias S., Milwaukee, Wis. Incubator. No. 1,033,031; July 16; Gaz. vol. 180; p. 833.
Moore, Elmer E., assignor of one-third to L. Smith and one-third to J. Fehrenback, Martins Ferry, Ohio. Combination shade and curtain hanger. No. 1,035,626; Aug. 13; Gaz. vol. 181; p. 444.
Moore, Ernest K., Hattiesburg, Miss. Cotton-chopper. No. 1,039,431; Sept. 24; Gaz. vol. 182; p. 851.
Moore, Frank E., assignor to Mathews Gravity Carrier Company, St. Paul, Minn. Gravity-carrier. No. 1,028,589; June 4; Sp. p. 1146; Gaz. vol. 179; p. 174.
Moore, Fred M., and J. C. Elliott, Oldtown, Me. Cardingdoffer and constructing same. No. 1,015,202; Jan. 16; Sp. p. 4652; Gaz. vol. 174; p. 785.
Moore, Frederick, Stoke Newington, London, England. Self-locking nut. No. 1,022,201; Apr. 2; Sp. p. 954; Gaz. vol. 177; p. 152.
Moore, Gaius C., assignor to John C. Moore Corporation, Rochester, N. Y. Loose-leaf binder. No. 1,018,770; Feb. 27; Sp. p. 5653; Gaz. vol. 175; p. 977.
Moore, George, Pittsburgh, Pa. Wrench. No. 1,040,729; Oct. 8; Gaz. vol. 183; p. 392.
Moore, George L., *et al.* (See Magee, Francis L., assignor.)
Moore, George R., Chicago, Ill. Apparatus for sinking wells. No. 1,018,725; Feb. 27; Sp. p. 5549; Gaz. vol. 175; p. 960.
Moore, Harry W., assignor to R. A. Duff, Nebraska City, Nebr. Explosive-engine. No. 1,042,947; Oct. 29; Gaz. vol. 183; p. 1238.
Moore, Henry C., Cleburne, Tex. Resilient wheel. No. 1,049,129; Dec. 31; Gaz. vol. 185; p. 1288.
Moore, Henry F. (See Berliner, Swem, and Moore.)
Moore, Herbert L. G., Richmond Hill, N. Y., assignor of one-half to himself, and one-half to H. A. Vreeland, North Paterson, N. J. Grease-proof paper vessel. No. 1,041,504; Oct. 15; Gaz. vol. 183; p. 684.
Moore, J. Walter, Fort Edward, N. Y. Child's combined carriage and sleigh. No. 1,013,206; Jan. 2; Sp. p. 237; Gaz. vol. 174; p. 40.
Moore, James, Boston, Mass., assignor to The Vulcan Soot Cleaner Company of Pittsburg, Pa., Dubois, Pa. Boiler-flue-cleaner system. No. 1,041,141; Oct. 15; Gaz. vol. 183; p. 562.
Moore, James A., Atlanta, Ga. Spring for beds. No. 1,023,089; Apr. 9; Sp. p. 2841; Gaz. vol. 177; p. 483.
Moore, James E. (See Van Devander and Moore.)
Moore, James E. A. (See Seaver and Moore.)
Moore, James H. (See Springsteen, Nelson E., assignor.)
Moore, Jay W., Gays Mills, assignor to Stoelting Brothers Co., Kiel, Wis. Carrier. No. 1,019,175; Mar. 5; Sp. p 379; Gaz. vol. 176; p. 60.
Moore, Jehu C., New York, N. Y. Sewing-machine. No. 1,047,974; Dec. 24; Gaz. vol. 185; p. 854.
Moore, Jeremiah, *et al.* (See Doyle, James, assignor.)
Moore, John A., Chicago, Ill. Electric controller. No. 1,043,340; Nov. 5; Gaz. vol. 184; p. 105.
Moore, John B., Washington, D. C. Reversing mechanism for explosive-engines. No. 1,024,945; Apr. 30; Sp. p. 6896; Gaz. vol. 177; p. 1211.
Moore, John C., Bernice, La. Seeder and planter. No. 1,018,580; Feb. 27; Sp. p. 5260; Gaz. vol. 175; p. 913.
Moore, John H., *et al.* (See Capwell, Courtland G., assignor.)
Moore, John P., Jr. (See Huggins, Frank L., assignor.)
Moore, John R., Allegheny, Pa. Folding stool. No. 1,023,671; Apr. 16; Sp. p. 4058; Gaz. vol. 177; p. 712.
Moore, John W., Carey, Ohio. Insulator. No. 1,048,850; Dec. 31; Gaz. vol. 185; p. 1192.
Moore, John W., and W. A. Browne, Columbus, Ohio. Engine. No. 1,038,780; Sept. 17; Gaz. vol. 182; p. 612.
Moore, Joseph M., Unadilla, N. Y. Door for silos. No. 1,037,963; Sept. 10; Gaz. vol. 182; p. 298.
Moore, L. M. (See Tudor, James H., assignor.)
Moore, Lee C., Pittsburgh, Pa. Steel tower or derrick. No. 1,015,821; Jan. 30; Sp. p. 6006; Gaz. vol. 174; p. 1049.
Moore, Lewis P., Weldon, Ill. Bolt-holding pincers. No. 1,020,361; Mar. 12; Sp. p. 2854; Gaz. vol. 176; p. 483.
Moore, Mala, Roseville, Ill. Wire-fence-reeling device. No. 1,041,142; Oct. 15; Gaz. vol. 183; p. 562.
Moore, Mandeville A., Newton Highlands, Mass. Filter. No. 1,028,054; May 28; Sp. p. 6500; Gaz. vol. 178; p. 1112.
Moore, Morris W., Somerville, assignor to Samuel Ward Company, Boston, Mass. Fountain-pen. No. 1,031,282; July 2; Gaz. vol. 180; p. 153.
Moore, Moses M., Chicago, Ill., assignor to T. W. Snow Construction Company. Stand-pipe. No. 1,038,179; Sept. 10; Gaz. vol. 182; p. 368.
Moore, Orlando, Visalia, Cal. Detachable tread. No. 1,030,113; June 18; Sp. p. 4453; Gaz. vol. 179; p. 769.
Moore, Orlando C., Morrow, Ohio. Flow-motor. No. 1,042,366; Oct. 22; Gaz. vol. 183; p. 1008.

Alphabetical list of patentees—Continued.

Moore Patent Car Company. (See Elmer, James P., assignor.)
Moore Patent Car Company. (See Moore, Charles A., assignor.)
Moore Push-Pin Company. (See Moore, Edwin, assignor.)
Moore, Ralph H., Spreckels, assignor to Spreckels Sugar Company, San Francisco, Cal. Beet topping and loading apparatus. No. 1,024,142; Apr. 23; Sp. p. 5110; Gaz. vol. 177; p. 898.
Moore, Ralph H., Spreckels, assignor to Spreckels Sugar Company, San Francisco, Cal. Scraper for sugar-centrifugals. No. 1,042,710; Oct. 29; Gaz. vol. 183; p. 1158.
Moore, Raphael A., Portsmouth, Ohio. Toy pistol. No. 1,024,350; Apr. 23; Sp. p. 5528; Gaz. vol. 177; p. 969.
Moore, Robert A., New York, N. Y. Silencer for firearms. No. 1,021,742; Mar. 26; Sp. p. 5784; Gaz. vol. 176; p. 1039.
Moore, Robert H., assignor to American Creosoting Company, Chicago, Ill. Car-unloading device. No. 1,028,768; June 4; Sp. p. 1506; Gaz. vol. 179; p. 234.
Moore, Robert H., assignor to American Creosoting Company, Chicago, Ill. Valve or cover for tanks. No. 1,040,730; Oct. 8; Gaz. vol. 183; p. 392.
Moore, Robert L., near Byers, Colo. Rail-joint. No. 1,027,211; May 21; Sp. p. 4714; Gaz. vol. 178; p. 792.
Moore, Robert M., Galveston, Tex. Attachment for laundry-extractors. No. 1,015,392; Jan. 23; Sp. p. 5084; Gaz. vol. 174; p. 876.
Moore, Robert S., assignor to Gyro Motor Company, Washington, D. C. Piston for expansion-engines. No. 1,020,836; Mar. 19; Sp. p. 3899; Gaz. vol. 176; p. 682.
Moore, Robert S., and J. L. Simmons, assignors to The Gyro Motor Company, Washington, D. C. Gas-engine. No. 1,019,513; Mar. 5; Sp. p. 1166; Gaz. vol. 176; p. 172.
Moore, Robert S., and J. L. Simmons, assignors to Gyro Motor Company, Washington, D. C. Gas-engine. No. 1,022,864; Apr. 9; Sp. p. 2370; Gaz. vol. 177; p. 406.
Moore, Roswell A., Waterbury, Conn., and A. S. Sutcliffe, Newark, N. J., assignors to The Narrow Fabric Corporation, Orange, Conn. Reel for strip material. No. 1,029,212; June 11; Sp. p. 2474; Gaz. vol. 179; p. 421.
Moore, Roy, Adena, Ohio. Gate. No. 1,029,393; June 11; Sp. p. 2899; Gaz. vol. 179; p. 484.
Moore, Sidney W., Stockbridge, N. Y. Milk-pail. No. 1,048,851; Dec. 31; Gaz. vol. 185; p. 1192.
Moore, Thomas L., New York, N. Y. Paving-joint. No. 1,040,731; Oct. 8; Gaz. vol. 183; p. 392.
Moore, Thomas N., Coleman, Okla. Wagon-brake. No. 1,019,176; Mar. 5; Sp. p. 381; Gaz. vol. 176; p. 60.
Moore, Thomas N., Coleman, Okla. Vehicle-brake. No. 1,037,291; Sept. 3; Gaz. vol. 182; p. 37.
Moore, Thomas R., Walden, N. Y. Knife-blade-squaring machine. No. 1,046,627; Dec. 10; Gaz. vol. 185; p. 328.
Moore, Valloo V., Baraboo, Wis. Poultry-feeder. No. 1,036,882; Aug. 27; Gaz. vol. 181; p. 943.
Moore, Van Zandt M., Cleveland, Ohio. Steering-gearing. No. 1,033,442; July 23; Gaz. vol. 180; p. 1010.
Moore, Vinson, Brinkley, Ark. Flue-working tool. No. 1,026,993; May 21; Sp. p. 4214; Gaz. vol. 178; p. 719.
Moore, Walter B., Seattle, Wash. Air-lift pump. No. 1,035,993; Aug. 20; Gaz. vol. 181; p. 605.
Moore, Warren, Loomis, Nebr. Harvester attachment. No. 1,022,325; Apr. 2; Sp. p. 1203; Gaz. vol. 177; p. 192.
Moore and White Company, The. (See White, Joseph A., assignor.)
Moore, William, Duluth, assignor of fifty-one one-hundredths to J. E. Mattson, Deer Wood, Minn. Twine-cutter. No. 1,026,631; May 14; Sp. p. 3373; Gaz. vol. 178; p. 555.
Moore, William A., Gaithersburg, Md. Nut-lock. No. 1,032,929; July 16; Gaz. vol. 180; p. 799.
Moore, William E., Pittsburgh, Pa. Gin-saw. No. 1,042,250; Oct. 22; Gaz. vol. 183; p. 970.
Moore, William G., Indianapolis, Ind., assignor to The National Malleable Castings Company, Cleveland, Ohio. Molding apparatus. No. 1,013,303; Jan. 2; Sp. p. 481; Gaz. vol. 174; p. 75.
Moore, Zovalda. (See Couture, William L., assignor.)
Moores, Joel, Cincinnati, Ohio. Machine for molding dough. No. 1,044,803; Nov. 19; Gaz. vol. 184; p. 675.
Moorhead, Albert E., assignor, by mesne assignments, to American Rotary Valve Company, Chicago, Ill. Valve. No. 1,020,922; Mar. 19; Sp. p. 4058; Gaz. vol. 176; p. 709.
Moorhead, Albert E., assignor, by mesne assignments, to American Rotary Valve Company, Chicago, Ill. Vacuum-cleaning device. No. 1,042,711; Oct. 29; Gaz. vol. 183; p. 1158.
Moorhead, Albert E., assignor, by mesne assignments, to American Rotary Valve Company, Chicago, Ill. Rotary valve for engines and the like. No. 1,042,712; Oct. 29; Gaz. vol. 183; p. 1159.
Moorhead, Albert E., San Francisco, Cal., assignor to American Rotary Valve Company, Chicago, Ill. Pneumatic scrubbing appliance. No. 1,042,713; Oct. 29; Gaz. vol. 183; p. 1160.
Moorhead, Albert E., San Francisco, Cal., assignor to American Rotary Valve Company, Chicago, Ill. Pneumatic cleansing implement for removing dust. No. 1,043,024; Oct. 29; Gaz. vol. 183; p. 1266.
Moorhead, Albert E., assignor to American Rotary Valve Company, Chicago, Ill. Pneumatic cleansing apparatus. No. 1,043,025; Oct. 29; Gaz. vol. 183; p. 1266.
Moorhead, Albert E., San Francisco, Cal., assignor to American Rotary Valve Company, Chicago, Ill. Pneumatic cleansing apparatus. No. 1,023,090; Apr. 9; Sp. p. 2841; Gaz. vol. 177; p. 484.
Moorhead, Albert E., San Francisco, Cal., assignor to American Rotary Valve Company, Chicago, Ill. Pneumatic scrubbing appliance. No. 1,026,104; May 14; Sp. p. 2249; Gaz. vol. 178; p. 379.
Moorman, John A., Packwood, Iowa. Device for retaining horse-collars in position to be repaired. No. 1,049,312; Dec. 31; Gaz. vol. 185; p. 1350.
Moors, George F., Mount Vernon, Ill. Rotary engine. No. 1,029,941; June 18; Sp. p. 4094; Gaz. vol. 179; p. 710.
Moran, Daniel E., Mendham, N. J. Building piers, shafts, &c. No. 1,036,680; Aug. 27; Gaz. vol. 181; p. 877.
Moran, Daniel E., Mendham, N. J. Sinking joint-caissons and building piers, walls, &c. No. 1,036,681; Aug. 27; Gaz. vol. 181; p. 877.
Moran, Geneva, Thomaston, Me. Nursing-bottle attachment. No. 1,023,672; Apr. 16; Sp. p. 4059; Gaz. vol. 177; p. 712.
Moran, John, *et al.* (See Bopp, Clinton L., assignor.)
Moran, John F. (See Small, Henry, assignor.)
Moran, John F., Pittsburg, Kans., assignor of one-half to J. P. Ryder, Kansas City, Mo. Slide-valve. No. 1,027,560; May 28; Sp. p. 5420; Gaz. vol. 178; p. 949.
Moran, John F., and J. J. Mahan, Jersey City, N. J.; said Mahan assignor to said Moran. Nozzle appliance. No. 1,045,057; Nov. 19; Gaz. vol. 184; p. 762.
Moran, Joseph H., *et al.* (See Aragall, Joseph, assignor.)
Moran, Louis A., Grosse Pointe Farms, Mich. Garbage-receptacle. No. 1,028,898; June 11; Sp. p. 1807; Gaz. vol. 179; p. 314.
Moran, Michael C., Olyphant, Pa. Label. No. 1,020,305; Mar. 12; Sp. p. 2751; Gaz. vol. 176; p. 466.
Moran, William H., New York, N. Y. Fuel-reservoir. No. 1,039,573; Sept. 24; Gaz. vol. 182; p. 902.
Moran, William J. (See McManus, William H., assignor.)
Morawiecki, Michal, Pittsburgh, Pa. Bottle closure or stopper. No. 1,037,792; Sept. 3; Gaz. vol. 182; p. 205.
Morawiecki, Michal, Pittsburgh, Pa. Rat-trap. No. 1,048,995; Dec. 31; Gaz. vol. 185; p. 1241.
Morawski, Adolf, Tariffville, Conn. Electric rat-trap. No. 1,047,682; Dec. 17; Gaz. vol. 185; p. 728.
Morawski, Aleksander, Warsaw, Russia. Vacuum-pump. No. 1,049,130; Dec. 31; Gaz. vol. 185; p. 1289.
Mordan, James. (See Armstrong and Mordan.)
Mordaunt, Leonard. (See Lovey, Joseph, assignor.)
Morden Frog & Crossing Works. (See Cusic, Dennis H., assignor.)
Morden Frog & Crossing Works. (See Wilmot-Gilbert, William J., assignor.)
Morden, Lucena M., Waterbury, Conn. Loose-leaf binder. No. 1,037,292; Sept. 3; Gaz. vol. 182; p. 38.
Morden, Lucena M., Waterbury, Conn. Loose-leaf binder. No. 1,037,293; Sept. 3; Gaz. vol. 182; p. 38.
Morden, Lucena M., Waterbury, Conn. Multiple book-rings. No. 1,046,836; Dec. 10; Gaz. vol. 185; p. 401.
Morden, Lucena M., Waterbury, Conn. Loose-leaf binder. No. 1,048,852; Dec. 31; Gaz. vol. 185; p. 1193.
Moreau, Hector L. (See Barrows and Moreau.)
Moreaux, Achille M., Paris, France. Fork. No. 1,031,657; July 2; Gaz. vol. 180; p. 280.
Morecambe Motor and Engineering Company Limited. (See Walker and Hollings, assignors.)
Morehead, Hugh F., New Britain, Conn. Board-clamp. No. 1,018,070; Feb. 20; Sp. p. 4100; Gaz. vol. 175; p. 705.
Morehead, John H. (See Monmonier and Morehead.)
Morehead, John I., Smith Center, Kans. Inkstand. No. 1,047,975; Dec. 24; Gaz. vol. 185; p. 854.
Morehead, John M., Chicago, Ill., G. E. Cox and J. G. Marshall, Niagara Falls, assignors to Union Carbide Company, New York, N. Y. Subdividing crystalline calcium carbid. No. 1,036,525; Aug. 20; Gaz. vol. 181; p. 793.
Morehouse, David, Delphos, Ohio. Lubricating device for engines. No. 1,013,678; Jan. 2; Sp. p. 1303; Gaz. vol. 174; p. 204.
Morehouse, David, Delphos, Ohio. Steam-engine lubricator. No. 1,026,526; May 14; Sp. p. 3159; Gaz. vol. 178; p. 522.
Morehouse, Eugene, assignor to B. A. Ballou and Company, Inc., Providence, R. I. Pin. No. 1,028,477; June 4; Sp. p. 922; Gaz. vol. 179; p. 138.
Morehouse, Eugene, assignor to B. A. Ballou and Company, Inc., Providence, R. I. Safety-catch for pins. No. 1,034,136; July 30; Gaz. vol. 180; p. 1273.
Morehouse, Leonard M., Newark, N. J. Loose-leaf binder. No. 1,018,125; Feb. 20; Sp. p. 4214; Gaz. vol. 175; p. 725.

Alphabetical list of patentees—Continued.

Morel, Charles, Domène, Isère, France. Vertical tubular mill for fine grinding. No. 1,024,414; Apr. 23; Sp. p. 5682; Gaz. vol. 177; p. 990.
Morel, Lorenzo E., St. Hyacinthe, Quebec, Canada. Sostenuto attachment for electropneumatic instruments. No. 1,030,319; June 25; Sp. p. 4926; Gaz. vol. 179; p. 879.
Morel, Marshall E., Sheridan, Ill. Railroad-tie. No. 1,033,032; July 16; Gaz. vol. 180; p. 834.
Moreland, Frank T., assignor of one-half to P. H. Petersen, Oakland, Cal. Electric-light socket. No. 1,038,415; Sept. 10; Gaz. vol. 182; p. 450.
Moreland, William C., Clay Center, Kans. Plaster-pointing-up device. No. 1,038,180; Sept. 10; Gaz. vol. 182; p. 368.
Moreland, William E., Union City, Ga. Pipe-coupling. No. 1,029,453; June 11; Sp. p. 3016; Gaz. vol. 179; p. 505.
Moreland, Willis J., Mottville, N. Y. Damper. No. 1,024,946; Apr. 30; Sp. p. 6898; Gaz. vol. 177; p. 1212.
Morell, Alfred F., Worcester, Mass., assignor to Crompton & Knowles Loom Works. Weft-replenishing loom. No. 1,041,844; Oct. 22; Gaz. vol. 183; p. 836.
Morell, Ernst, Cassel, Germany. Rotary pump. No. 1,032,342; July 9; Gaz. vol. 180; p. 557.
Moren, August, Maples, S. D. Pole-cap for vehicles. No. 1,043,057; Oct. 29; Gaz. vol. 183; p. 1278.
Morén, Hugo. (See Sohlman, Nordenfelt, and Morén.)
Moretto, Gaspare. (See Santilli, Angelo, assignor.)
Morey, Harry J., and F. A. Brogden, Syracuse, N. Y. Electric switch. No. 1,030,788; June 25; Sp. p. 6199; Gaz. vol. 179; p. 1048.
Morey, Harry J., and F. A. Brogden, Syracuse, N. Y. Electric switch. No. 1,037,964; Sept. 10; Gaz. vol. 182; p. 299.
Morey, Leonard D., Watertown, assignor of one-half to J. H. Bronson, Waterbury, Conn. Automatic sprinkler-closer. No. 1,028,247; June 4; Sp. p. 412; Gaz. vol. 179; p. 59.
Morey, Myron, Milford, Mass. Suspension for cables. No. 1,025,098; Apr. 30; Sp. p. 7202; Gaz. vol. 177; p. 1261.
Morey, William, Quincy, Ill. Sanitary cuspidor. No. 1,025,288; May 7; Sp. p. 389; Gaz. vol. 178; p. 64.
Morford, William L., Maitland, Mo. Plow. No. 1,039,314; Sept. 24; Gaz. vol. 182; p. 811.
Morgal, John F., assignor to The C. W. Raymond Company, Dayton, Ohio. Screen for dry-pans. No. 1,048,721; Dec. 31; Gaz. vol. 185; p. 1147.
Morgan, Alfred E., assignor of one-half to W. A. Morgan, Hartford, Conn. Package-binder. No. 1,014,506; Jan. 9; Sp. p. 3112; Gaz. vol. 174; p. 517.
Morgan, Arthur, *et al.* (See Dressel, Charles P., assignor.)
Morgan, Arthur H., Cambridge, Mass. Gas-meter. No. 1,020,837; Mar. 19; Sp. p. 3900; Gaz. vol. 176; p. 682.
Morgan, Charles, assignor to Arcade Manufacturing Company, Freeport, Ill. Molder's flask. No. 1,028,478; June 4; Sp. p. 923; Gaz. vol. 179; p. 138.
Morgan, Charles H. (See Murphy and Harrison, assignors.)
Morgan, Charles M., Los Angeles, Cal. Display-card. No. 1,028,479; June 4; Sp. p. 925; Gaz. vol. 179; p. 138.
Morgan Construction Company. (See Carroll, Elbert H., assignor.)
Morgan Construction Company. (See Edwards, Victor E., assignor.)
Morgan Construction Company. (See Edwards and George, assignors.)
Morgan Construction Company. (See Jefferies, Ebenezer A. W., assignor.)
Morgan Construction Company. (See Jefferies and Isley, assignors.)
Morgan Engineering Company, The. (See Taylor, Clarence L., assignor.)
Morgan, Ernest W., Oakland, Cal., assignor of one-half to N. Oster, Kinsley, Kans. Envelop. No. 1,025,583; May 7; Sp. p. 1075; Gaz. vol. 178; p. 166.
Morgan, Frank E. (See Vogelzangs and Morgan.)
Morgan, Frank S., Nevada City, Cal. Injector attachment for air or steam pumps. No. 1,023,583; Apr. 16; Sp. p. 3890; Gaz. vol. 177; p. 685.
Morgan, Franklyn J., Chicago, Ill. Automobile body and seats. No. 1,039,780; Oct. 1; Gaz. vol. 183; p. 38.
Morgan-Gardner Electric Company. (See Noble, Ralph E., assignor.)
Morgan, Gerry A., Goffstown, N. H., assignor to Boston Automatic Machine Company, Boston, Mass. Power-transmission mechanism. No. 1,021,159; Mar. 26; Sp. p. 4570; Gaz. vol. 176; p. 840.
Morgan, Hamilton, San Francisco, Cal. Eye-cap. No. 1,016,083; Jan. 30; Sp. p. 6584; Gaz. vol. 174; p. 1143.
Morgan, Henry W., Rochester, N. Y. Nailing-machine. No. 1,020,436; Mar. 19; Sp. p. 3029; Gaz. vol. 176; p. 548.
Morgan, Henry W., Rochester, N. Y. Nailing-machine. No. 1,039,172; Sept. 24; Gaz. vol. 182; p. 758.
Morgan, Horace M. (See Hopkins and Morgan.)
Morgan, Hubert W., Cleveland, Ohio, assignor of one-half to H. S. Townsend, Buffalo, N. Y. Pin attachment. No. 1,036,883; Aug. 27; Gaz. vol. 181; p. 944.
Morgan, Isaiah D. (See Snodgrass, Charles C., assignor.)
Morgan, James J., Chicago, Ill. Coffee-pot. No. 1,041,143; Oct. 15; Gaz. vol. 183; p. 563.
Morgan, John, and H. E. Grabau, New York, N. Y. Detachable spout for containers. No. 1,044,560; Nov. 19; Gaz. vol. 184; p. 588.
Morgan, John D., Summit, N. J., assignor to Goss Printing Press Company, Chicago, Ill. Book or pamphlet making machine. No. 1,021,325; Mar. 26; Sp. p. 4912; Gaz. vol. 176; p. 898.
Morgan, John D., Summit, N. J., assignor to Goss Printing Press Company, Chicago, Ill. Folding-machine. No. 1,029,140; June 11; Sp. p. 2324; Gaz. vol. 179; p. 396.
Morgan, John H., Harrogate, England. Shelf and other like bracket. No. 1,028,590; June 4; Sp. p. 1148; Gaz. vol. 179; p. 174.
Morgan, John W. (See Davis and Morgan.)
Morgan, Lewis N., *et al.* (See Dawson, Robert C., assignor.)
Morgan, Mathew B., assignor to Chalmers Motor Company, Detroit, Mich. Holder. No. 1,016,353; Feb. 6; Sp. p. 262; Gaz. vol. 175; p. 41.
Morgan, Morgan T., Anaconda, Mont. Burglar-alarm. No. 1,031,951; July 9; Gaz. vol. 180; p. 425.
Morgan, Nels, Funk, Nebr. Cap-securing means for grease-cups. No. 1,039,781; Oct. 1; Gaz. vol. 183; p. 38.
Morgan, Percy D., Portland, Oreg. Combined pencil and compasses. No. 1,021,160; Mar. 26; Sp. p. 4572; Gaz. vol. 176; p. 841.
Morgan, Ralph L., Worcester, Mass. Means for loading and unloading motor-trucks. No. 1,030,320; June 25; Sp. p. 4932; Gaz. vol. 179; p. 880.
Morgan, Ralph L., Worcester, Mass. Loading and unloading device. No. 1,048,722; Dec. 31; Gaz. vol. 185; p. 1147.
Morgan Spring Company. (See Sleeper, Frank H., assignor.
Morgan, Thomas C., assignor to H. L. Scranton, Spokane, Wash. Heater for washing-machines and the like. No. 1,033,113; July 23; Gaz. vol. 180; p. 900.
Morgan, Thomas E. (See McGall and Morgan.)
Morgan, Thomas E., Starkweather, N. D. Commode. No. 1,013,802; Jan. 2; Sp. p. 1560; Gaz. vol. 174; p. 248.
Morgan, Thomas W. (See Hackett and Morgan.)
Morgan, William A. (See Morgan, Alfred E., assignor.)
Morgan, William F., Duquesne, Pa. Nut-locking device. No. 1,015,059; Jan. 16; Sp. p. 4389; Gaz. vol. 174; p. 737.
Morgan, William H. (See Kirk, Jesse S., assignor.)
Morgan, William H. (See Taylor, Clarence L., assignor.)
Morgan, William H., Alliance, Ohio. Railway-tie and means for securing rails to the same. No. 1,026,108; May 14; Sp. p. 2255; Gaz. vol. 178; p. 380.
Morgan, William H., Alliance, Ohio. Means for securing rails to metal ties. No. 1,028,248; June 4; Sp. p. 414; Gaz. vol. 179; p. 59.
Morgan, William H., Alliance, Ohio. Metal ties for railways. No. 1,028,249; June 4; Sp. p. 415; Gaz. vol. 179; p. 60.
Morgan, William H., Alliance, Ohio. Metal tie. No. 1,028,250; June 4; Sp. p. 417; Gaz. vol. 179; p. 60.
Morgan, William H., Alliance, Ohio. Metal ties for railways. No. 1,028,251; June 4; Sp. p. 418; Gaz. vol. 179; p. 60.
Morgan, William H., Alliance, Ohio. Railway-track construction. No. 1,046,837; Dec. 10; Gaz. vol. 185; p. 401.
Morgan, William H., Alliance, Ohio. Metal tie for railways. No. 1,047,432; Dec. 17; Gaz. vol. 185; p. 637.
Morgan, William H., Alliance, Ohio. Railway-track construction. No. 1,048,723; Dec. 31; Gaz. vol. 185; p. 1148.
Morgan, William H., and W. V. Hartzell, Alliance, Ohio; said Hartzell assignor to said Morgan. Clamp for securing railway-rails to metal ties. No. 1,026,105; May 14; Sp. p. 2250; Gaz. vol. 178; p. 379.
Morgan, William H., and W. V. Hartzell, Alliance, Ohio; said Hartzell assignor to said Morgan. Metal ties for railways. No. 1,026,106; May 14; Sp. p. 2252; Gaz. vol. 178; p. 379.
Morgan, William H., and W. V. Hartzell, Alliance, Ohio; said Hartzell assignor to said Morgan. Means for securing rails to metal ties. No. 1,026,107; May 14; Sp. p. 2253; Gaz. vol. 178; p. 380.
Morgan, William W., Philadelphia, Pa., and J. L. Fitts, Merchantville, N. J., assignors to Warren Webster & Company. Water and air relief valve for steam-heating systems. No. 1,041,144; Oct. 15. Gaz. vol. 183; p. 563.
Morgan & Wright. (See Hoyt, Homer J., assignor.)
Morgeneier, Robert. (See Wear and Morgeneier.)
Morgenstein, Jacob R. (See Blenz and Morgenstein.)
Morgenstern, David, and M. Brill, New York, N. Y. Satchel-lock. No. 1,022,202; Apr. 2; Sp. p. 956; Gaz. vol. 177; p. 153.
Morgenstern, Oscar L., Philadelphia, Pa. Submerged water-wheel. No. 1,013,508; Jan. 2; Sp. p. 912; Gaz. vol. 174; p. 146.
Morgner, Carl G., Harvey, Ill. Screen for car-windows. No. 1,047,828; Dec. 17; Gaz. vol. 185; p. 777.
Morimura, Senshiro, Tokyo, Japan. Sand-pump. No. 1,034,817; Aug. 6; Gaz. vol. 181; p. 141.

Alphabetical list of patentees—Continued.

Morin, Edgar G., Jr., San Francisco, Cal. Lock and mortise gage. No. 1,014,895; Jan. 16; Sp. p. 4028; Gaz. vol. 174; p. 681.
Morin, George F., Benson, Minn. Mail-bag deliverer. No. 1,019,823; Mar. 12; Sp. p. 1746; Gaz. vol. 176; p. 306.
Morin, Joseph P., assignor of one-half to T. Morin, Laconia, N. H. Mop-wringer. No. 1,024,738; Apr. 30; Sp. p. 6457; Gaz. vol. 177; p. 1138.
Morin, Leon J., Taunton, Mass. Spinning-machine. No. 1,028,480; June 4; Sp. p. 926; Gaz. vol. 179; p. 138.
Morin, Thomas. (See Morin, Joseph P., assignor.)
Morisons, Jules L., Anvers, Belgium. Automatic locking device. No. 1,042,948; Oct. 29; Gaz. vol. 183; p. 1239.
Moritz, Gustave, St. Louis, Mo. Eye-shield for spectacles, eyeglasses, and the like. No. 1,025,202; May 7; Sp. p. 204; Gaz. vol. 178; p. 34.
Moritz, Herman, New York, N. Y. Cloth-steaming machine. No. 1,047,683; Dec. 17; Gaz. vol. 185; p. 728.
Moritz, Joseph, Dresden, Germany. Transom-lifter. No. 1,040,732; Oct. 8; Gaz. vol. 183; p. 393.
Moritzky, Nathan, Brooklyn, N. Y. Ball-float. No. 1,049,131; Dec. 31; Gaz. vol. 185; p. 1289.
Moriz, Georg, and G. P. Barschall, Rixdorf, near Berlin, Germany. Cap for stoppers of bottles. No. 1,028,769; June 4; Sp. p. 1508; Gaz. vol. 179; p. 235.
Mork, Harry S. (See Gallagher and Mork.)
Mork, Harry S., assignor to Chemical Products Company, Boston, Mass. Cellulose ester. No. 1,039,782; Oct. 1; Gaz. vol. 183; p. 39.
Morley, Charles D., assignor to Unit Construction Company, St. Louis, Mo. Attaching hoisting-hooks. No. 1,045,587; Nov. 26; Gaz. vol. 184; p. 976.
Morley, Daniel T. (See Bevan and Morley.)
Morley, Henry, Patchogue, N. Y. Curtain-stretcher. No. 1,035,627; Aug. 13; Gaz. vol. 181; p. 445.
Morley, Joseph D., Utica, N. Y., assignor, by mesne assignments, to Scott & Williams, Incorporated, Camden, N. J. Improving the texture of knitted webs. No. 1,035,031; Aug. 6; Gaz. vol. 181; p. 209.
Morley, Joseph D., Utica, N. Y., assignor, by mesne assignments, to Scott & Williams, Incorporated, Camden, N. J. Tension mechanism for knitting-machines. No. 1,039,989; Oct. 1; Gaz. vol. 183; p. 105.
Morley, Joseph D., Utica, N. Y., assignor, by mesne assignments, to Scott & Williams, Incorporated, Camden, N. J. Rib-knitting machine. No. 1,039,990; Oct. 1; Gaz. vol. 183; p. 106.
Morningstar, Chauncie W., Marion, Mich. Drop-light support. No. 1,047,433; Dec. 17; Gaz. vol. 185; p. 638.
Moross, William P. D., Chattanooga, Tenn. Hydraulic-cement and water paint. No. 1,036,506; Aug. 20; Gaz. vol. 181; p. 787.
Morral, John, assignor of one-fourth to W. Drake and one-fourth to M. C. Clements, Larue, Ohio. Corn-butting machine. No. 1,029,213; June 11; Sp. p. 2475; Gaz. vol. 179; p. 421.
Morrell, Edward S., Philadelphia, Pa. Panel-board construction. No. 1,040,381; Oct. 8; Gaz. vol. 183; p. 268.
Morres, Joseph V., Brookville, Pa. Rail-joint. No. 1,017,986; Feb. 20; Sp. p. 3907; Gaz. vol. 175; p. 676.
Morrill, Milton D., Washington, D. C. Sectional mold for concrete construction. No. 1,014,630; Jan. 9; Sp. p. 3398; Gaz. vol. 174; p. 559.
Morrill, Milton D., Washington, D. C. Sectional mold for concrete wall construction. No. 1,032,419; July 16; Gaz. vol. 180; p. 627.
Morrill, Stanley V., Benton Harbor, Mich. Scoop. No. 1,039,574; Sept. 24; Gaz. vol. 182; p. 902.
Morrin, Thomas, San Francisco, Cal. Centrifugal oil-burner. No. 1,025,153; May 7; Sp. p. 87; Gaz. vol. 178; p. 16.
Morris, Albert W. (See Wetherill and Morris.)
Morris, Albert W., assignor to The American Pulley Company, Philadelphia, Pa. Shaft-hanger. No. 1,025,289; May 7; Sp. p. 391; Gaz. vol. 178; p. 64.
Morris, Albert W., assignor to Wetherill Finished Castings Company, Philadelphia, Pa. Pressure casting apparatus. No. 1,039,173; Sept. 24; Gaz. vol. 182; p. 759.
Morris Cash Register Company. (See Wear, Charles, assignor.)
Morris, Charles A., Montclair, N. J., assignor to The Hayward Company. Excavating-shovel. No. 1,022,638; Apr. 9; Sp. p. 1870; Gaz. vol. 177; p. 327.
Morris, Charles A., Montclair, assignor to Otis Elevator Company, Jersey City, N. J. Conveyer. No. 1,047,273; Dec. 17; Gaz. vol. 185; p. 582.
Morris, Charles A., and W. H. Merritt, Red Bank, N. J. Carbureter. No. 1,033,443; July 23; Gaz. vol. 180; p. 1011.
Morris, Charles D., Washington, D. C., assignor of three-fifths to W. D. Junkin, Spokane, Wash., and one-fifth to J. B. Swinburne, Washington, D. C. Telephone relay or repeater. No. 1,033,114; July 23; Gaz. vol. 180; p. 900.
Morris, Charles W., assignor of one-half to W. D. McBride, deceased, Toledo, Ohio, (M. O. McBride, executrix.) Switch-operating mechanism. No. 1,031,082; July 2; Gaz. vol. 180; p. 83.
Morris, Daniel W. (See Sommerfield and Morris.)
Morris, David Z. (See Morris, George R., assignor.)
Morris, Edward L., Boston, Mass. Token, charm, or pocket-piece. No. 1,016,706; Feb. 6; Sp. p. 1072; Gaz. vol. 175; p. 165.
Morris, Francis S., Moon township, Beaver county, Pa. Tool-support. No. 1,018,258; Feb. 20; Sp. p. 4488; Gaz. vol. 175; p. 770.
Morris, Francis S., and P. S. Kirke, Westminster, England. Manufacture of chains. No. 1,028,055; May 28; Sp. p. 6501; Gaz. vol. 178; p. 1112.
Morris, Fulton R., assignor to Morris Grain Drier and Salvage Company, Milwaukee, Wis. Grain-drier. No. 1,028,899; June 11; Sp. p. 1809; Gaz. vol. 179; p. 314.
Morris, George A., Inver Grove, Minn. Saw-set. No. 1,019,824; Mar. 12; Sp. p. 1747; Gaz. vol. 176; p. 306.
Morris, George H., Glencoe, Ill., assignor to The Electric Storage Battery Company, Philadelphia, Pa. Insulating-support for storage-battery tanks. No. 1,034,394; July 30; Gaz. vol. 180; p. 1363.
Morris, George R., Buffalo, N. Y., assignor of one-third to D. Z. Morris, Toronto, Canada. Telephone-transmitter. No. 1,030,915; July 2; Gaz. vol. 180; p. 22.
Morris Grain Drier and Salvage Company. (See Morris, Fulton R., assignor.)
Morris, Harold B., Michigan City, Ind. Cord for use in the manufacture of chairs or other articles. No. 1,027,751; May 28; Sp. p. 5802; Gaz. vol. 178; p. 1011.
Morris, Harrison R., Mapleton, Kans. Egg-candler. No. 1,023,091; Apr. 9; Sp. p. 2847; Gaz. vol. 177; p. 484.
Morris, Harry. (See Reed, Isaac N., assignor.)
Morris, Harry J., and J. A. Cowlyn, Kansas City, Mo. Artificial limb. No. 1,026,109; May 14; Sp. p. 2258; Gaz. vol. 178; p. 380.
Morris, Joseph, and C. Brownlee, Keewatin, Ontario, Canada. Grain-car door. No. 1,045,313; Nov. 26; Gaz. vol. 184; p. 878.
Morris, Otto M. (See Woodfield, Morris, and Gosling.)
Morris, Robert T., New York, N. Y. Smoker's pipe. No. 1,025,639; May 7; Sp. p. 1198; Gaz. vol. 178; p. 184.
Morris S. Wright Company. (See Wright, Morris S., assignor.)
Morris, Shiras, assignor to The Hart & Hegeman Manufacturing Company, Hartford, Conn. Electric switch. No. 1,033,340; July 23; Gaz. vol. 180; p. 977.
Morris, Shiras, assignor to The Hart & Hegeman Manufacturing Company, Hartford, Conn. Support and housing for electric-switch mounting. No. 1,035,380; Aug. 13; Gaz. vol. 181; p. 363.
Morris, William, Flint, Mich. Leaf-turner. No. 1,046,628; Dec. 10; Gaz. vol. 185; p. 328.
Morris, William A. (See Shank, Leroy S., assignor.)
Morris, William H., Carroll, Nebr. Butt-removing attachment for corn-harvesters. No. 1,017,987; Feb. 20; Sp. p. 3908; Gaz. vol. 175; p. 676.
Morris, William H., and H. Hudson, Nashville, Tenn. Adjustable ice-shoe. No. 1,016,168; Jan. 30; Sp. p. 6730; Gaz. vol. 174; p. 1170.
Morris, William H., Galena, Ill., A. Gruneisen and F. Hoppe, Platteville, Wis. Car-replacer. No. 1,029,394; June 11; Sp. p. 2901; Gaz. vol. 179; p. 484.
Morrison, Andrew, Pittsburgh, Pa. Guard-rail. No. 1,036,305; Aug. 20; Gaz. vol. 181; p. 716.
Morrison, Charlie E., Sheldon, Ill. Shock-compressor. No. 1,043,026; Oct. 29; Gaz. vol. 183; p. 1267.
Morrison, Fred, *et al.* (See Bundy, Henry C., assignor.)
Morrison, George L. (See Fordon and Morrison.)
Morrison, George L., Hudson, and A. A. Fordon, Detroit, Mich. Basket and handle therefor. No. 1,046,321; Dec. 3; Gaz. vol. 185; p. 182.
Morrison, George L., Hudson, and A. A. Fordon, Detroit, Mich. Suit-case box. No. 1,046,398; Dec. 3; Gaz. vol. 185; p. 210.
Morrison, James, assignor to The Cincinnati Time Recorder Company, Cincinnati, Ohio. Time-recorder. No. 1,022,694; Apr. 9; Sp. p. 2009; Gaz. vol. 177; p. 347.
Morrison, John A. (See Fisher and Morrison.)
Morrison, Lewis E., Newark, N. J., assignor to Automatic Platen Press Company, New York, N. Y. Sheet-feeding mechanism. No. 1,014,323; Jan. 9; Sp. p. 2736; Gaz. vol. 174; p. 456.
Morrison, Lewis E., assignor to himself and M. Plum, Newark, N. J. Delivery mechanism for platen-presses. No. 1,025,418; May 7; Sp. p. 681; Gaz. vol. 178; p. 108.
Morrison, Lewis E., assignor to himself and M. Plunn, Newark, N. J. Sheet-feeding mechanism. No. 1,033,444; July 23; Gaz. vol. 180; p. 1011.
Morrison, Lewis E., assignor to himself and M. Plunn, Newark, N. J. Printing-machine. No. 1,033,445; July 23; Gaz. vol. 180; p. 1011.
Morrison, Lewis E., assignor to himself and M. Plum, Newark, N. J. Inking mechanism. No. 1,040,733; Oct. 8; Gaz. vol. 183; p. 393.
Morrison, Robert J., Wayne, Pa. Brad feeding and driving apparatus. No. 1,024,645; Apr. 30; Sp. p. 6275; Gaz. vol. 177; p. 1105.
Morrison, Thomas, assignor of one-half to W. H. Woodward, Denver, Colo. Safety door-bolt. No. 1,047,139; Dec. 10; Gaz. vol. 185; p. 504.
Morrison, William, Des Moines, Iowa. Alkaline battery. No. 1,020,568; Mar. 19; Sp. p. 3314; Gaz. vol. 176; p. 592.

Alphabetical list of patentees—Continued.

Morrison, William, Des Moines, Iowa. Storage-battery electrode and making it. No. 1,021,989; Apr. 2; Sp. p. 512; Gaz. vol. 177; p. 81.
Morrison, William, Des Moines, Iowa. Binder for peroxid active material and making it. No. 1,021,990; Apr. 2; Sp. p. 514; Gaz. vol. 177; p. 81.
Morrison, William, Des Moines, Iowa. Binder for peroxid active material and making it. No. 1,021,991; Apr. 2; Sp. p. 517; Gaz. vol. 177; p. 82.
Morrison, William, Des Moines, Iowa. Binder for peroxid active material and making it. No. 1,021,992; Apr. 2; Sp. p. 520; Gaz. vol. 177; p. 82.
Morrison, William, Des Moines, Iowa. Binding the active material of positive-pole lead electrodes. No. 1,021,993; Apr. 2; Sp. p. 521; Gaz. vol. 177; p. 82.
Morrison, William, Des Moines, Iowa. Binding the active material of positive-pole lead electrodes. No. 1,021,994; Apr. 2; Sp. p. 523; Gaz. vol. 177; p. 82.
Morrison, William, Des Moines, Iowa. Binding the active material of positive-pole lead electrodes. No. 1,021,995; Apr. 2; Sp. p. 524; Gaz. vol. 177; p. 82.
Morrison, William, Des Moines, Iowa. Binding the active material of positive-pole lead electrodes. No. 1,021,996; Apr. 2; Sp. p. 526; Gaz. vol. 177; p. 83.
Morrison, William, Des Moines, Iowa. Storage-battery conductor or support. No. 1,021,997; Apr. 2; Sp. p. 528; Gaz. vol. 177; p. 83.
Morrison, William, Des Moines, Iowa. Electrolytic rectifier. No. 1,022,695; Apr. 9; Sp. p. 2012; Gaz. vol. 177; p. 348.
Morrison, William, Des Moines, Iowa. Electrolytic rectifier. No. 1,023,092; Apr. 9; Sp. p. 2849; Gaz. vol. 177; p. 484.
Morrison, William, Des Moines, Iowa. Electrode for reversible galvanic batteries. (Reissue.) No. 13,420; May 14; Sp. p. 3425; Gaz. vol. 178; p. 565.
Morrison, William, Chicago, Ill. Power installation. No. 1,044,409; Nov. 12; Gaz. vol. 184; p. 506.
Morrison, William C., Pittsburgh, Pa., assignor of one-half to W. Richardson, St. Louis, Mo. Hand-hole plate. No. 1,025,710; May 7; Sp. p. 1331; Gaz. vol. 178; p. 207.
Morrison, William F. (See Coe, Charles E., assignor.)
Morrison, William F., Cowell, Cal. Steel and concrete railway-tie. No. 1,021,845; Apr. 2; Sp. p. 203; Gaz. vol. 177; p. 34.
Morrison, William R., Chicago, Ill. Fastening device for tires. No. 1,046,629; Dec. 10; Gaz. vol. 185; p. 329.
Morrissey, Thomas F., West Orange, N. J., assignor to United Button Company. Sawing-machine. No. 1,019,720; Mar. 5; Sp. p. 1543; Gaz. vol. 176; p. 240.
Morrow, Harry C., White Hall, assignor to Illinois Silo Company, Bloomington, Ill. Silo. No. 1,048,724; Dec. 31; Gaz. vol. 185; p. 1148.
Morrow, James L., Antioch, Tenn. Strap-clutch. No. 1,038,628; Sept. 17; Gaz. vol. 182; p. 559.
Morrow, John H., Chicago, Ill. Radiator. No. 1,044,561; Nov. 19; Gaz. vol. 184; p. 588.
Morrow, John W., Murrayville, Victoria, assignor of one-third to B. Edwards, Pinnaroo, Australia. Fence, telegraph, and other post. No. 1,025,823; May 7; Sp. p. 1568; Gaz. vol. 178; p. 248.
Morscher, Lawrence N., assignor to himself and W. J. Ehrsam, cotrustees, Enterprise, Kans. Grader. No. 1,023,750; Apr. 16; Sp. p. 4185; Gaz. vol. 177; p. 735.
Morse, Alfred B., South Easton, Mass. Clutch for automobiles and the like. No. 1,016,427; Feb. 6; Sp. p. 416; Gaz. vol. 175; p. 66.
Morse, Arthur R. (See Hohberger, Johann T., assignor.)
Morse Chain Company, The. (See Allingham, Henry W., assignor.)
Morse Chain Company. (See Morse, Frank L., assignor.)
Morse, Frank H. G., Cambridge, Mass. Box. No. 1,013,207; Jan. 2; Sp. p. 240; Gaz. vol. 174; p. 41.
Morse, Frank L., assignor to Morse Chain Company, Trumansburg, N. Y. Drive-chain. No. 1,027,352; May 21; Sp. p. 4988; Gaz. vol. 178; p. 841.
Morse, Frank V., Minneapolis, Minn. Tone-clarifier for talking-machines. No. 1,014,841; Jan. 16; Sp. p. 3910; Gaz. vol. 174; p. 663.
Morse, George E., Brockton, Mass. Seat. No. 1,043,450; Nov. 5; Gaz. vol. 184; p. 144.
Morse, Harry W., and L. W. Sargent, Cambridge, Mass. Treating feldspar. No. 1,041,327; Oct. 15; Gaz. vol. 183; p. 626.
Morse, James A., Newton, assignor to L. J. McCarty, trustee, Boston, Mass. Spinning-ring. No. 1,032,077; July 9; Gaz. vol. 180; p. 466.
Morse, James E., Canandaigua, N. Y. Blade-sharpener. No. 1,024,947; Apr. 30; Sp. p. 6900; Gaz. vol. 177; p. 1212.
Morse, John J., and W. S. Gemmer, St. Louis, Mo. Brake-shoe. No. 1,031,658; July 2; Gaz. vol. 180; p. 281.
Morse, Martha A., New York, N. Y. Washboard. No. 1,043,623; Nov. 5; Gaz. vol. 184; p. 205.
Morse, Orville M., deceased, Jackson, Mich.; S. G. Morse, special administratrix. Dust-collector. No. 1,029,214; June 11; Sp. p. 2479; Gaz. vol. 179; p. 422.
Morse, Orville M., deceased, Jackson, Mich.; S. G. Morse, administratrix. Dust collector or separator. No. 1,031,862; July 9; Gaz. vol. 180; p. 395.
Morse, Robert B., Stapleton, N. Y. Window-screen. No. 1,048,474; Dec. 24; Gaz. vol. 185; p. 1023.
Morse, Sarah G., administratrix. (See Morse, Orville M.)
Morse Twist Drill & Machine Company. (See O'Connor and Riley, assignors.)
Morse, Wendell J., Albion, Mich. Coin or check controlled vending-machine. No. 1,021,723; Mar. 26; Sp. p. 5745; Gaz. vol. 176; p. 1032.
Morse, William H. (See Shaw and Morse.)
Morse, William R., Los Angeles, Cal. Separator. No. 1,049,257; Dec. 31; Gaz. vol. 185; p. 1331.
Mort, George F., Ealing, London, England. Explosion-engine. No. 1,021,697; Mar. 26; Sp. p. 5685; Gaz. vol. 176; p. 1024.
Mortensen, Sören H., Milwaukee, Wis., assignor to Allis-Chalmers Company. Brush-holder. No. 1,017,309; Feb. 13; Sp. p. 2395; Gaz. vol. 175; p. 407.
Mortenson, Carl S., Moline, Ill. Elevator safety device. No. 1,042,813; Oct. 29; Gaz. vol. 183; p. 1193.
Mortenson, Samuel E., Chicago, Ill., assignor to Taylor Brothers Company, Battle Creek, Mich. Confectionery-box. No. 1,018,628; Feb. 27; Sp. p. 5349; Gaz. vol. 175; p. 927.
Mortimer, Charles H., assignor of one-half to C. P. Soulé, Chicago, Ill. Method and means for treating paper on a printing-press. No. 1,037,965; Sept. 10; Gaz. vol. 182; p. 299.
Mortimer, Frank. (See Rohrbacher, Edward J., assignor.)
Morton, Albert H., Lowell, Mass. Spindle-support for spinning, twisting, and the like machines. No. 1,039,432; Sept. 24; Gaz. vol. 182; p. 851.
Morton, Albert H., Lowell, Mass. Spindle for spinning, twisting, and the like machines. No. 1,039,433; Sept. 24; Gaz. vol. 182; p. 851.
Morton, Albert H., Lowell, Mass. Spinning-spindle. No. 1,039,434; Sept. 24; Gaz. vol. 182; p. 852.
Morton, Arthur, Warwick, assignor to Crompton Company, Providence, R. I. Pile-cutting machine. No. 1,016,512; Feb. 6; Sp. p. 632; Gaz. vol. 175; p. 97.
Morton, Arthur H., Cleveland, Ohio. Tire protector or shield. No. 1,029,215; June 11; Sp. p. 2482; Gaz. vol. 179; p. 422.
Morton, Arthur L., Mountain View, Cal. Apricot and peach cutter. No. 1,033,446; July 23; Gaz. vol. 180; p. 1012.
Morton, Darwin A. (See Jones, Morton, and Terziev.)
Morton, Ezra F., Long Pine, Nebr. Adjustable wrist-pin bearing. No. 1,032,620; July 16; Gaz. vol. 180; p. 694.
Morton, Frances, Buffalo, N. Y. Spectacles. No. 1,024,275; Apr. 23; Sp. p. 5403; Gaz. vol. 177; p. 946.
Morton, Henry E., Muskegon Heights, Mich. Work-holder for shapers. No. 1,033,921; July 30; Gaz. vol. 180; p. 1197.
Morton, Henry E., Muskegon, Mich. Back-rest for draw-cut shapers. No. 1,033,922; July 30; Gaz. vol. 180; p. 1197.
Morton, Lawrence D., assignor to The Hinde & Dauch Paper Company, Sandusky, Ohio. Packing-case. (Reissue.) No. 13,465; Sept. 3; Gaz. vol. 182; p. 222.
Morton, Rolla A., Fresno, Cal. Internal-combustion rotary engine. No. 1,019,177; Mar. 5; Sp. p. 383; Gaz. vol. 176; p. 60.
Morton, Walter S., Harrisburg, Pa. Traction-wheel. No. 1,036,682; Aug. 27; Gaz. vol. 181; p. 878.
Morton, Walter S., Portsmouth, Ohio. Driving-chain. No. 1,039,991; Oct. 1; Gaz. vol. 183; p. 106.
Morton, Walter S., Portsmouth, Ohio, assignor to S. F. Dunkle, trustee, Harrisburg, Pa. Driving mechanism for traction-engines. No. 1,042,714; Oct. 29; Gaz. vol. 183; p. 1160.
Mortz, Dorace E. (See Port, O'Neal, and Mortz.)
Mörtzsch, Hans, assignor to Mörtzsch and Klee, Detroit, Mich. Explosion-engine. No. 1,031,809; July 9; Gaz. vol. 180; p. 376.
Mörtzsch and Klee. (See Mörtzsch, Hans, assignor.)
Morway, John W., Plainville, Conn. Electric switch. No. 1,043,859; Nov. 12; Gaz. vol. 184; p. 316.
Mosby, Alfred D., assignor to Marsh-Capron Manufacturing Company, Chicago, Ill. Liquid-measuring device. No. 1,024,415; Apr. 23; Sp. p. 5683; Gaz. vol. 177; p. 990.
Mosby, Alfred D., assignor to Marsh-Capron Manufacturing Company, Chicago, Ill. Machine for bending T-section rails. No. 1,040,382; Oct. 8; Gaz. vol. 183; p. 268.
Moschenross, John B. (See Edison, Karl, assignor.)
Moscicki, Ignacy, Fribourg, Switzerland. Apparatus for absorption of dilute gases by liquids. No. 1,046,212; Dec. 3; Gaz. vol. 185; p. 142.
Moseley, Thomas P., Vallejo, Cal. Valve. No. 1,015,453; Jan. 23; Sp. p. 5214; Gaz. vol. 174; p. 897.
Moseley, William P., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Key. No. 1,032,930; July 16; Gaz. vol. 180; p. 799.
Moser, Frank W., Chicago, Ill., assignor to Woldert Grocery Company, Tyler, Tex. Nutcracker. No. 1,037,966; Sept. 10; Gaz. vol. 182; p. 299.
Moser, Fred J., Kane, Pa. Device for attaching reels to engines. No. 1,024,592; Apr. 30; Sp. p. 6155; Gaz. vol. 177; p. 1087.

Alphabetical list of patentees—Continued.

Moser, Fred J., Kane, Pa. Reel. No. 1,028,770; June 4; Sp. p. 1509; Gaz. vol. 179; p. 235.
Moser, Fred J., Kane, Pa. Casing-head. No. 1,045,314; Nov. 26; Gaz. vol. 184; p. 878.
Moses, Jacob B., Dallas, Tex. Sound-record tablet. No. 1,046,418; Dec. 3; Gaz. vol. 185; p. 217.
Mosher, Charles D., New York, N. Y. Closure for boiler-casings, &c. No. 1,043,451; Nov. 5; Gaz. vol. 184; p. 145.
Mosher, Peter W., Stockton, Cal. Electric danger-alarm for railways. No. 1,033,341; July 23; Gaz. vol. 180; p. 978.
Moskowits, Rudolph, Indianapolis, Ind. Convertible chair. No. 1,026,276; May 14; Sp. p. 2609; Gaz. vol. 178; p. 437.
Mosler, Arthur R. (See Murray, James E., assignor.)
Mosler, Arthur R., assignor to A. R. Mosler & Co., New York, N. Y. Circuit-breaker for electric-ignition devices. No. 1,042,814; Oct. 29; Gaz. vol. 183; p. 1194.
Mosman, Ernest. (See Subers and Mosman.)
Mosman, Ernest, Cleveland, Ohio. Automatically-locking plate. No. 1,045,058; Nov. 19; Gaz. vol. 184; p. 762.
Mosmann, John, Newark, N. J. Automatic fire-alarm. No. 1,042,025; Oct. 22; Gaz. vol. 183; p. 897.
Moss, Charles M., and S. Q. Hayes, Pittsburgh, Pa., assignors to Westinghouse Electric and Manufacturing Company. System of electric-current distribution. No. 1,017,060; Feb. 13; Sp. p. 1845; Gaz. vol. 175; p. 320.
Moss, Earl C., Chicago, Ill. Binder-frame. No. 1,030,675; June 25; Sp. p. 5897; Gaz. vol. 179; p. 1007.
Moss, Ernest, Dallington, Christchurch, New Zealand. Thermostat. No. 1,039,174; Sept. 24; Gaz. vol. 182; p. 759.
Moss, George A., Plymouth, Pa. Coal-boring bit. No. 1,040,383; Oct. 8; Gaz. vol. 183; p. 269.
Moss, George A., assignor to M. L. Moss, San Francisco, Cal. Gage for scribing work. No. 1,041,145; Oct. 15; Gaz. vol. 183; p. 563.
Moss, Mary L. (See Moss, George A., assignor.)
Moss, Robert S., Chicago, assignor of one-fourth to A. Roberts, Evanston, and one-fourth to E. Anderson, Chicago, Ill. Coke-oven. No. 1,025,419; May 7; Sp. p. 684; Gaz. vol. 178; p. 108.
Moss, Sanford A. (See Rice and Moss.)
Moss, Sanford A., Lynn, Mass., assignor to General Electric Company. Centrifugal compressor. No. 1,041,505; Oct. 15; Gaz. vol. 183; p. 684.
Moss, Shepley H., Morris, Ill. Cow-holder. No. 1,047,104; Dec. 10; Gaz. vol. 185; p. 490.
Moss, Thomas J., St. Louis, Mo. Chock. No. 1,035,381; Aug. 13; Gaz. vol. 181; p. 363.
Mossberg, Axel E., Westpoint, Nebr. Spring attachment for oil-cans. No. 1,038,181; Sept. 10; Gaz. vol. 182; p. 369.
Mossberg, Axel E., Westpoint, Nebr. Manure-spreader. No. 1,046,838; Dec. 10; Gaz. vol. 185; p. 402.
Mossberg, Frank, Attleboro, Mass., assignor to Frank Mossberg Company. Ratchet-wrench. No. 1,019,825; Mar. 12; Sp. p. 1749; Gaz. vol. 176; p. 306.
Mossberg, Frank, Attleboro, Mass., assignor to Frank Mossberg Company. Braider-spool. No. 1,040,384; Oct. 8; Gaz. vol. 183; p. 269.
Mossberg, Frank, Attleboro, Mass., assignor to Frank Mossberg Company. Pipe-wrench. No. 1,044,069; Nov. 12; Gaz. vol. 184; p. 390.
Mossberg, Frank, Attleboro, Mass., assignor to Frank Mossberg Company. Loom-beam. No. 1,044,685; Nov. 19; Gaz. vol. 184; p. 633.
Mossick, Charles E., Chicago, Ill. Loose-leaf binder. No. 1,015,203; Jan. 16; Sp. p. 4653; Gaz. vol. 174; p. 785.
Mossig, Max. (See Sachs and Mossig.)
Mosso, Arthur, Sonoma, and P. Giovanetti, San Francisco, Cal. Vehicle-wheel. No. 1,015,700; Jan. 23; Sp. p. 5762; Gaz. vol. 174; p. 982.
Mossop, Agnes, Harley, Ontario, Canada. Envelop. No. 1,023,437; Apr. 16; Sp. p. 3588; Gaz. vol. 177; p. 638.
Mossop, John, Altrincham, England. Musical-instrument case. No. 1,013,423; Jan. 2; Sp. p. 739; Gaz. vol. 174; p. 116.
Mosteller, Dosier H., Chicago, Ill. Commodity-receptacle. No. 1,027,353; May 21; Sp. p. 4990; Gaz. vol. 178; p. 841.
Mote, Joe E. (See Thomas, William, assignor.)
Motley, Phillips B., assignor to himself, C. N. Monsarrat, and J. G. Sullivan, Westmount, Quebec, Canada. Hollow section. No. 1,023,163; Apr. 16; Sp. p. 3052; Gaz. vol. 177; p. 547.
Motor Appliances Company. (See Milne, Taylor, and Churchill, assignors.)
Motorkultur A. G. (See Meyenburg, Konrad V. von, assignor.)
Motsinger Device Manufacturing Company. (See Motsinger, Homer N., assignor.)
Motsinger, Homer N., assignor to Motsinger Device Manufacturing Company, Pendleton, Ind. Magneto-electric device. No. 1,021,001; Mar. 26; Sp. p. 4244; Gaz. vol. 176; p. 788.
Motsinger, Homer N., Pendleton, assignor to Motsinger Device Manufacturing Company, La Fayette, Ind. Carbureter. No. 1,021,547; Mar. 26; Sp. p. 5418; Gaz. vol. 176; p. 975.
Mott, Abram C. (See Edgar, Andrew C., assignor.)
Mott, Abram C., Jr., assignor to Thomas, Roberts, Stevenson Company, Philadelphia, Pa. Pilot-burner for gas-stoves No. 1,037,037; Aug. 27; Gaz. vol. 181; p. 996.
Mott, Fred C., Satsop, Wash. Fluid-actuated clutch. No. 1,045,315; Nov. 26; Gaz. vol. 184; p. 879.
Mott, James H., Emmett township, Calhoun county, Mich., assignor to Simplex Spreader Manufacturing Company, Kansas City, Mo. Straw-spreader. No. 1,037,038; Aug. 27; Gaz. vol. 181; p. 996.
Mott, William R., Lakewood, assignor to National Carbon Company, Cleveland, Ohio. Arc-lamp. No. 1,036,884; Aug. 27; Gaz. vol. 181; p. 944.
Mouchet, Albert A., Youngsville, La. Machine for driving posts and well-tubing. No. 1,019,687; Mar. 5; Sp. p. 1483; Gaz. vol. 176; p. 229.
Mouchin, Andrews, Moscow, Russia. Feed-water purifier for boilers. No. 1,047,829; Dec. 17; Gaz. vol. 185; p. 778.
Mould, Edmund F., Cleveland, Ohio, assignor to The Adams-Bagnall Electric Company. Holder for globes or reflectors. No. 1,045,588; Nov. 26; Gaz. vol. 184; p. 976.
Moulden, John C., and H. W. Webster, assignors to Central Zinc Company Limited, Seaton Carew, England. Zinc distillation. No. 1,030,676; June 25; Sp. p. 5899; Gaz. vol. 179; p. 1008.
Moulder, James. (See Irby, Wiley R., assignor.)
Moulton, Cleveland F., St. Louis, Mo. Envelop. No. 1,016,950; Feb. 13; Sp. p. 1600; Gaz. vol. 175; p. 282.
Moulton, Fred H., Lexington, Mass. Extension-ladder hook. No. 1,045,165; Nov. 26; Gaz. vol. 184; p. 827.
Moulton, Luther V., and P. A. Jones, Grand Rapids, Mich. Starter for internal-combustion engines. (Reissue.) No. 13,450; July 30; Gaz. vol. 180; p. 1368.
Mount Vernon Specialty Company. (See Hoevet, Alfred T., assignor.)
Mount, William D., Saltville, Va. Drive for conveyers. No. 1,032,850; July 16; Gaz. vol. 180; p. 774.
Mountford, Thomas, Newark, N. J., assignor to Blancard & Company, New York, N. Y. Jewel-setting. No. 1,032,762; July 16; Gaz. vol. 180; p. 745.
Mounts, Edison J., Krum, Tex. Safety-brake for elevators. No. 1,040,734; Oct. 8; Gaz. vol. 183; p. 393.
Movsovitz, Samuel G. (See Levy, John, assignor.)
Mowat, Alexander G., Toronto, Ontario, Canada, assignor to The Carter-Crume Company, Limited, Niagara Falls, N. Y. Sales-slip. No. 1,024,522; Apr. 30; Sp. p. 5970; Gaz. vol. 177; p. 1063.
Mowat, Oliver M. (See Saunders and Mowat.)
Mowbray, James W., Gleichen, Alberta, assignor to The Hydro-Carbon Vaporizer Limited, Fort William, Canada. Hydrocarbon-vaporizer for internal-combustion engines. No. 1,021,326; Mar. 26; Sp. p. 4915; Gaz. vol. 176; p. 898.
Mowbray, William J., Providence, R. I. Meter. No. 1,024,218; Apr. 23; Sp. p. 5282; Gaz. vol. 177; p. 926.
Mower, Charles H. (See Williams, Frederick W. R., assignor.)
Mower, Fred G., assignor to Goodell Company, Antrim, N. H. Fruit-slicer. No. 1,044,070; Nov. 12; Gaz. vol. 184; p. 391.
Mower, Herbert W., Newark, N. J. Expansion-bolt. No. 1,033,447; July 23; Gaz. vol. 180; p. 1012.
Mowrer, Claude E., Ypsilanti, Mich. Wire-terminal plug. No. 1,049,132; Dec. 31; Gaz. vol. 185; p. 1289.
Mowry, Charles, Kimball, Ohio. Potato-harvester. No. 1,018,071; Feb. 20; Sp. p. 4101; Gaz. vol. 175; p. 706.
Mowry, Edward S., and H. Hanson, Middletown, Conn. Anchor. No. 1,033,033; July 16; Gaz. vol. 180; p. 834.
Mowry, Roy M., Nezperce, Idaho. Car-door. No. 1,033,115; July 23; Gaz. vol. 180; p. 900.
Moxham, Arthur J., Wilmington, Del. Blast-furnace. No. 1,036,137; Aug. 20; Gaz. vol. 181; p. 657.
Moxley, Berry C., Hoquiam, Wash. Spark-arrester. No. 1,031,570; July 2; Gaz. vol. 180; p. 250.
Moxley, Frances M. (See Robinson, James H., assignor.)
Moxley, Ward G., Ravena, N. Y. Automobile light-turner. No. 1,023,026; Apr. 9; Sp. p. 2704; Gaz. vol. 177; p. 462.
Moya, Hidalgo, Leicester, England. Aerial vessel. No. 1,019,514; Mar. 5; Sp. p. 1168; Gaz. vol. 176; p. 173.
Moya, Hidalgo, assignor to Imperial Typewriter Company, Limited, North Evington, England. Type-writer. No. 1,045,059; Nov. 19; Gaz. vol. 184; p. 763.
Moye, Edward A. (See Clark, Edward O., assignor.)
Moyer, Frank P., Utica, N. Y. Window-screen. No. 1,038,936; Sept. 17; Gaz. vol. 182; p. 666.
Moyer, Harvey A. (See Kavle, Oscar C., assignor.)
Moyer, Harvey A. (See Latta, Emmit G., assignor.)
Moyer, Harvey A., Syracuse, N. Y. Automobile. No. 1,036,885; Aug. 27; Gaz. vol. 181; p. 944.
Moyer, John B., Lucas, S. D. Disk-sharpener. No. 1,028,252; June 4; Sp. p. 419; Gaz. vol. 179; p. 60.
Moyer, Malcolm B., assignor to Moyer Manufacturing Company, Montevideo, Minn. Elevated-carrier latch. No. 1,043,786; Nov. 5; Gaz. vol. 184; p. 259.
Moyer Manufacturing Company. (See Moyer, Malcolm B., assignor.)

Alphabetical list of patentees—Continued.

Moyers, George F., New Virginia, Iowa. Device for binding and tying corn-shocks. No. 1,035,628; Aug. 13; Gaz. vol. 181; p. 445.
Moyes, John, Glasgow, and C. A. Stevenson, Edinburgh, Scotland. Signaling apparatus. No. 1,028,591; June 4; Sp. p. 1149; Gaz. vol. 179; p. 175.
Moyet, Jean B., and H. Bouvier, Grenoble, assignors to Société d'Etude et d'Exploitations des Attelages Automatiques pour Wagons (Brevets Moyet-Bouvier). Lyon, France. Automatic railway-coupling. No. 1,048,334; Dec. 24; Gaz. vol. 185; p. 975.
Moyle, Edward. (See Moyle, Edward H., assignor.)
Moyle, Edward H., Los Angeles, assignor to E. Moyle, Grass Valley, Cal. Supporting and lifting and adjusting device for stamp-mills. No. 1,040,235; Oct. 1; Gaz. vol. 183; p. 188.
Mozingo, William H., Hurdland, Mo. Saw gummer and swager. No. 1,040,385; Oct. 8; Gaz. vol. 183; p. 269.
Mrock, Albert F., assignor to Tufting Machine Supply Company, Chicago, Ill. Machine for shirring cloth and other materials. No. 1,042,715; Oct. 29; Gaz. vol. 183; p. 1161.
Mrugala, Ferdinand, *et al.* (See Kuna, Vincent J., assignor.)
Mt. Holyoke Tissue Mills. (See Bond, William H., assignor.)
Mücke, Paul, Schönau, Germany. Flower-vase. No. 1,045,589; Nov. 26; Gaz. vol. 184; p. 977.
Muckenfuss, Anthony M., University, Miss. Method of and apparatus for testing paint. No. 1,014,842; Jan. 16; Sp. p. 3911; Gaz. vol. 174; p. 663.
Muckey, Jeremiah, Gorin, Mo. Mold for concrete curbs for graves. No. 1,024,646; Apr. 30; Sp. p. 6277; Gaz. vol. 177; p. 1106.
Mudd, Joseph A., Chicago, Ill. Temporary binder. No. 1,026,277; May 14; Sp. p. 2611; Gaz. vol. 178; p. 438.
Mudge, Charles A., New York, N. Y., assignor to The Cutler-Hammer Manufacturing Company, Milwaukee, Wis. Electrical resistance. No. 1,044,562; Nov. 19; Gaz. vol. 184; p. 589.
Muehleisen, Carl. (See Rödiger and Muehleisen.)
Muehleisen, Carl, Berlin, Germany, assignor to Mergenthaler Linotype Company. Typographical composing-machine. No. 1,031,952; July 9; Gaz. vol. 180; p. 425.
Muehleisen, Carl, and C. A. Albrecht, Berlin, Germany, assignors to Mergenthaler Linotype Company, New York, N. Y. Means for leveling multiple-face matrices in line-casting machines. No. 1,017,444; Feb. 13; Sp. p. 2694; Gaz. vol. 175; p. 454.
Mueller, Adolph, *et al.*, executors. (See Mueller, Henry.)
Mueller, Adolph, *et al.*, executors. (See Mueller, Philip and H.)
Mueller, Adolph, *et al.*, executors. (See Mueller and Schuermann.)
Mueller, Anton, Wausau, Wis. Sample-holding device. No. 1,032,851; July 16; Gaz. vol. 180; p. 775.
Mueller, August, New York, N. Y. Hat-pin guard. No. 1,020,653; Mar. 19; Sp. p. 3504; Gaz. vol. 176; p. 619.
Mueller, Emil T. (See Wenzel, Fredrick E., assignor.)
Mueller, Frank, assignor to American Eagle Motor Car Company, New York, N. Y. Hydraulic lubricator. No. 1,024,692; Apr. 30; Sp. p. 6368; Gaz. vol. 177; p. 1122.
Mueller, Frank, assignor to American Eagle Motor Car Company, New York, N. Y. Hydraulic lubricator. No. 1,024,693; Apr. 30; Sp. p. 6369; Gaz. vol. 177; p. 1122.
Mueller, Fred B., assignor to H. Mueller Manufacturing Company, Decatur, Ill. Flexible connection for gas-meters. No. 1,042,251; Oct. 22; Gaz. vol. 183; p. 970.
Mueller, George H., Columbus, Ohio, assignor to The Jeffrey Manufacturing Company. Lubricating device for conveyer-chains. No. 1,014,248; Jan. 9; Sp. p. 2582; Gaz. vol. 174; p. 431.
Mueller, Helena. (See Szabados, Antony, assignor.)
Mueller, Helena, *et al.* (See Szabados, Antony, assignor.)
Mueller, Henry. (See Mueller, Philip and H.)
Mueller, Henry, New York, N. Y. Mixing-machine. No. 1,036,683; Aug. 27; Gaz. vol. 181; p. 878.
Mueller, Henry, deceased; O. B. and A. Mueller, executors, assignors to H. Mueller Manufacturing Company, Decatur, Ill. Cock or faucet. No. 1,024,093; Apr. 23; Sp. p. 4982; Gaz. vol. 177; p. 881.
Mueller, Henry, deceased; O. B. and A. Mueller, executors, assignors to H. Mueller Manufacturing Company, Decatur, Ill. Tool-shank. No. 1,034,724; Aug. 6; Gaz. vol. 181; p. 108.
Mueller, Henry, deceased; O. B. and A. Mueller, executors, assignors to H. Mueller Manufacturing Company, Decatur, Ill. Box-flange for pipe-couplings. No. 1,039,315; Sept. 24; Gaz. vol. 182; p. 811.
Mueller, Henry, deceased, (O. B. and A. Mueller, executors,) and A. C. Schuermann, assignors to H. Mueller Manufacturing Company, Decatur, Ill. Tool-retaining device for boring-bars. No. 1,034,723; Aug. 6; Gaz. vol. 181; p. 107.
Mueller, Henry, deceased, (O. B. and A. Mueller, executors,) and A. C. Schuermann, assignors to H. Mueller Mfg. Co., Decatur, Ill. Self-closing cock or faucet. No. 1,046,399; Dec. 3; Gaz. vol. 185; p. 210.
Mueller, John, Cleveland, Ohio. Self-closing faucet. No. 1,023,094; Apr. 23; Sp. p. 4988; Gaz. vol. 177; p. 881.
Mueller, Louis, Owosso, Mich. Rail-joint. No. 1,019,178; Mar. 5; Sp. p. 386; Gaz. vol. 176; p. 61.
Mueller, Louis J., Jr., Milwaukee, Wis. Damper. No. 1,023,866; Apr. 23; Sp. p. 4480; Gaz. vol. 177; p. 803.
Mueller, Louis J., Jr., assignor to L. J. Mueller Furnace Co., Milwaukee, Wis. Smoke-pipe connection and check-damper for heaters. No. 1,048,197; Dec. 24; Gaz. vol. 185; p. 929.
Mueller, Max R. H. (See Garner and Mueller.)
Mueller, Ora B., *et al.*, executors. (See Mueller, Henry.)
Mueller, Ora B., *et al.*, executors. (See Mueller, Philip and H.)
Mueller, Ora B., *et al.*, executors. (See Mueller and Schuermann.)
Mueller, Oscar B., New Rochelle, N. Y., assignor to National Water Main Cleaning Company. Device for passing cables through pipe-lines. No. 1,035,994; Aug. 20; Gaz. vol. 181; p. 605.
Mueller, Otto H., Camberwell, England, assignor to Henry R. Worthington. Jet-condenser. No. 1,015,822; Jan. 30; Sp. p. 6008; Gaz. vol. 174; p. 1050.
Mueller, Otto H., Camberwell, England, assignor to Henry R. Worthington. Hydraulic air compressor or pump. No. 1,031,143; July 2; Gaz. vol. 180; p. 105.
Mueller, Peter J., Maquoketa, Iowa. Driving mechanism. No. 1,032,696; July 16; Gaz. vol. 180; p. 723.
Mueller, Philip, assignor to The H. Mueller Manufacturing Company, Decatur, Ill. Box construction. No. 1,015,454; Jan. 23; Sp. p. 5217; Gaz. vol. 174; p. 897.
Mueller, Philip, assignor to The H. Mueller Manufacturing Company, Decatur, Ill. Multiple cock. No. 1,022,375; Apr. 2; Sp. p. 1292; Gaz. vol. 177; p. 209.
Mueller, Philip, assignor to The H. Mueller Manufacturing Company, Decatur, Ill. Device for manipulating pipe-fittings. No. 1,023,095; Apr. 23; Sp. p. 4989; Gaz. vol. 177; p. 882.
Mueller, Philip, assignor to The H. Mueller Manufacturing Company, Decatur, Ill. Tool for inserting corporation-cocks. No. 1,023,096; Apr. 23; Sp. p. 4992; Gaz. vol. 177; p. 882.
Mueller, Philip, assignor to H. Mueller Manufacturing Co., Decatur, Ill. Bath or basin fitting. No. 1,026,632; May 14; Sp. p. 3375; Gaz. vol. 178; p. 556.
Mueller, Philip, assignor to H. Mueller Manufacturing Company, Decatur, Ill. Automatic fire-hose valve. No. 1,026,994; May 21; Sp. p. 4216; Gaz. vol. 178; p. 719.
Mueller, Philip, assignor to H. Mueller Manufacturing Company, Decatur, Ill. Branch connection for meter-testing machines. No. 1,028,481; June 4; Sp. p. 927; Gaz. vol. 179; p. 139.
Mueller, Philip, assignor to H. Mueller Manufacturing Company, Decatur, Ill. Socket-head for curb-cocks. No. 1,032,492; July 16; Gaz. vol. 180; p. 652.
Mueller, Philip, assignor to H. Mueller Manufacturing Company, Decatur, Ill. Seal for service-cocks. No. 1,033,072; July 16; Gaz. vol. 180; p. 848.
Mueller, Philip, assignor to H. Mueller Manufacturing Company, Decatur, Ill. Cesspool. No. 1,033,448; July 23; Gaz. vol. 180; p. 1012.
Mueller, Philip, assignor to H. Mueller Manufacturing Company, Decatur, Ill. Pipe-flange. No. 1,034,725; Aug. 6; Gaz. vol. 181; p. 108.
Mueller, Philip, assignor to H. Mueller Manufacturing Company, Decatur, Ill. Fluid-meter tester. No. 1,038,182; Sept. 10; Gaz. vol. 182; p. 369.
Mueller, Philip, assignor to H. Mueller Manufacturing Company, Decatur, Ill. Seal for service-cocks. No. 1,038,183; Sept. 10; Gaz. vol. 182; p. 369.
Mueller, Philip, assignor to H. Mueller Manufacturing Company, Decatur, Ill. Adjustable screw-joint coupling for supply-pipes. No. 1,039,575; Sept. 24; Gaz. vol. 182; p. 903.
Mueller, Philip, assignor to H. Mueller Manufacturing Company, Decatur, Ill. Gas-cock. No. 1,045,094; Nov. 19; Gaz. vol. 184; p. 774.
Mueller, Philip, assignor to H. Mueller Mfg. Co., Decatur, Ill. Seal for service-cocks. No. 1,048,198; Dec. 24; Gaz. vol. 185; p. 929.
Mueller, Philip, and A. C. Schuermann, assignors to H. Mueller Manufacturing Company, Decatur, Ill. Sanitary drinking-fountain. No. 1,014,324; Jan. 9; Sp. p. 2738; Gaz. vol. 174; p. 456.
Mueller, Philip, and A. C. Schuermann, assignors to H. Mueller Manufacturing Company, Decatur, Ill. Apparatus for attaching coupling-nuts to pipe-fittings. No. 1,018,207; Feb. 20; Sp. p. 4385; Gaz. vol. 175; p. 753.
Mueller, Philip, and A. C. Schuermann, assignors to The H. Mueller Manufacturing Company, Decatur, Ill. Meter support or shelf. No. 1,018,675; Feb. 27; Sp. p. 5444; Gaz. vol. 175; p. 944.
Mueller, Philip, and A. C. Schuermann, assignors to The H. Mueller Manufacturing Company, Decatur, Ill. Sanitary drinking-fountain. No. 1,020,923; Mar. 19; Sp. p. 4063; Gaz. vol. 176; p. 710.
Mueller, Philip, and A. C. Schuermann, assignors to H. Mueller Manufacturing Company, Decatur, Ill. Apparatus for attaching collars or flanges to pipe-fittings. No. 1,034,726; Aug. 6; Gaz. vol. 181; p. 108.

Alphabetical list of patentees—Continued.

Mueller, Philip, and A. C. Schuermann, assignors to H. Mueller Manufacturing Company, Decatur, Ill. Adjustable screw-joint coupling for supply-pipes. No. 1,036,684; Aug. 27; Gaz. vol. 181; p. 878.

Mueller, Philip, and A. C. Schuermann, assignors to H. Mueller Manufacturing Company, Decatur, Ill. Seal for pipe-couplings. No. 1,039,576; Sept. 24; Gaz. vol. 182; p. 903.

Mueller, Philip, and W. T. Mason, assignors to H. Mueller Manufacturing Company, Decatur, Ill. Hose-support for fire-hose. No. 1,023,218; Apr. 16; Sp. p. 3164; Gaz. vol. 177; p. 566.

Mueller, Philip, and H. Mueller, deceased, (O. B. and A. Mueller, executors,) assignors to H. Mueller Manufacturing Company, Decatur, Ill. Cock-hole cover. No. 1,040,735; Oct. 8; Gaz. vol. 183; p. 394.

Mueller, Rudolph, Chicago, Ill. Apparatus for carbonating liquids. No. 1,043,127; Nov. 5; Gaz. vol. 184; p. 28.

Mueller, Wilhelm, Essen-on-the-Ruhr, Germany. Direct recovery of tar and ammonia from distillation-gases. No. 1,043,452; Nov. 5; Gaz. vol. 184; p. 145.

Mueller, Wilhelm, Essen-on-the-Ruhr, Germany. Recovery of ammonia from distillation-gases. No. 1,045,590; Nov. 26; Gaz. vol. 184; p. 977.

Mueller, William, Dubuque, Iowa. Drinking-fountain. No. 1,038,937; Sept. 17; Gaz. vol. 182; p. 666.

Mueller, William A., Bath, S. D., assignor of one-half to J. L. Sullivan, Decatur, Ill. Engine-stop and speed limit. No. 1,029,023; June 11; Sp. p. 2079; Gaz. vol. 179; p. 358.

Mueller, William O., and G. F. Ahlering, Evansville, Ind. Combination filing-cabinet. No. 1,045,316; Nov. 26; Gaz. vol. 184; p. 879.

Muench, Herman G., San Francisco, Cal. Apparatus for inspecting bottles. No. 1,030,422; June 25; Sp. p. 5152; Gaz. vol. 179; p. 917.

Muench, Hermann G., Berkeley, Cal. Bottle-labeling machine. No. 1,047,550; Dec. 17; Gaz. vol. 185; p. 680.

Muender, William L., Montford, Wis. Concentrating-table. No. 1,015,823; Jan. 30; Sp. p. 6009; Gaz. vol. 174; p. 1050.

Muender, William L., Montfort, Wis. Table. No. 1,031,659; July 2; Gaz. vol. 180; p. 281.

Mueser, William, New York, N. Y. Reinforced-concrete piling. No. 1,034,277; July 30; Gaz. vol. 180; p. 1322.

Mugler, Herman A., New York, N. Y., and G. D. McNaughton, East Orange, N. J. Cover for coal-holes, manholes, vaults, trenches, &c. No. 1,035,722; Aug. 13; Gaz. vol. 181; p. 477.

Mühlberg, Albert, Basel, Switzerland. Shaping-machine for screw-propellers. No. 1,021,941; Apr. 2; Sp. p. 392; Gaz. vol. 177; p. 65.

Mühlberg, Albert, Basel, Switzerland. Screw-propeller. No. 1,023,584; Apr. 16; Sp. p. 3891; Gaz. vol. 177; p. 685.

Muir, Charles. (See Vincent and Muir.)

Muir, Farquharson J., Winchester, Mass., assignor of two-fifths to W. A. Hewitt, Greensboro, N. C. Pressure dyeing-machine. No. 1,034,487; Aug. 6; Gaz. vol. 181; p. 28.

Muir, Harry C., Rushville, Ind. Cabinet. No. 1,015,060; Jan. 16; Sp. p. 4390; Gaz. vol. 174; p. 737.

Muir, Matthew C., Philadelphia, Pa. Vehicle-brake. No. 1,024,694; Apr. 30; Sp. p. 6371; Gaz. vol. 177; p. 1122.

Muir-Vincent Smoke Consumers Limited. (See Vincent and Muir, assignors.)

Muirhead, Robert. (See McDonald, John, assignor.)

Mukautz, Peter J., Kansas City, Mo. Phonograph attachment for kinetoscopes. No. 1,020,362; Mar. 12; Sp. p. 2854; Gaz. vol. 176; p. 484.

Mukautz, Peter J., Kansas City, Mo. Vitascope. No. 1,033,608; July 23; Gaz. vol. 180; p. 1066.

Mulder, Alje, Grand Rapids, Mich. Milk-bottle. No. 1,017,161; Feb. 13; Sp. p. 2072; Gaz. vol. 175; p. 356.

Muldoon, Jerome. (See Bunting, Muldoon, and Springer.)

Mulford, Logan W., Narberth, Pa. Concrete skylight, vault-light, and floor-light. No. 1,021,548; Mar. 26; Sp. p. 5420; Gaz. vol. 176; p. 976.

Mulford, Logan W., assignor to American Bar Lock Company, Philadelphia, Pa. Sidewalk-door. No. 1,015,579; Jan. 23; Sp. p. 5495; Gaz. vol. 174; p. 940.

Mulford, Ora J. (See King, Charles B., assignor.)

Mulgrew, Felix B., San Francisco, Cal. Vaginal syringe. No. 1,034,818; Aug. 6; Gaz. vol. 181; p. 141.

Mulhall, Charles J., Chicago, Ill. Car-door. No. 1,035,806; Aug. 13; Gaz. vol. 181; p. 505.

Mulholland, Hugh, New York, N. Y. Illuminated sign. No. 1,024,695; Apr. 30; Sp. p. 6373; Gaz. vol. 177; p. 1123.

Mulholland, Hugh, Cincinnati, Ohio. Illuminated sign. No. 1,037,294; Sept. 3; Gaz. vol. 182; p. 38.

Mulholland, Hugh, New York, N. Y., and C. G. West, Greenwich, Conn., assignors, by mesne assignments, to G. M. Potter, New York, N. Y. Illuminated sign. No. 1,039,175; Sept. 24; Gaz. vol. 182; p. 759.

Mulholland, Mathew. (See Moore and Mulholland.)

Mulholland, Samuel. (See Craig, Robert M., assignor.)

Mulholland, Vergil, Edgewood, assignor to Heyl & Patterson, Inc., Pittsburgh, Pa. Apparatus for handling glassware. No. 1,016,428; Feb. 6; Sp. p. 420; Gaz. vol. 175; p. 67.

Mullaly, Thomas W., Fort Worth, Tex. Theatrical schedule and advertising-cabinet. No. 1,038,416; Sept. 10; Gaz. vol. 182; p. 450.

Mullaney, John J., New York, N. Y. Pocket-lamp. No. 1,026,995; May 21; Sp. p. 4220; Gaz. vol. 178; p. 720.

Mullaney, William F., Marshall, Minn. Adding-counter. No. 1,035,629; Aug. 13; Gaz. vol. 181; p. 446.

Mullen, George B., assignor of one-half to H. Schmidt, New York, N. Y. Screw-driver. No. 1,047,684; Dec. 17; Gaz. vol. 185; p. 729.

Mullen, James J., assignor to Moloney Electric Company, St. Louis, Mo. Self-cooled transformer. No. 1,039,577; Sept. 24; Gaz. vol. 182; p. 903.

Mullen, John W. (See Pope and Mullen.)

Mullen, Thomas J., and T. F. Brennan, New Brighton, N. Y. Shock-absorber. No. 1,034,023; July 30; Gaz. vol. 180; p. 1234.

Mullen, Thomas J., and T. F. Brennan, New Brighton, N. Y. Pneumatic spring. No. 1,039,578; Sept. 24; Gaz. vol. 182; p. 904.

Mullendore, Vine, Denver, Colo. Flying-machine. No. 1,019,988; Mar. 12; Sp. p. 2095; Gaz. vol. 176; p. 361.

Mullennix, John S., Bradford, Ohio. Filter. No. 1,038,417; Sept. 10; Gaz. vol. 182; p. 451.

Müller, Alfred F., Philadelphia, Pa. Carousel. No. 1,040,736; Oct. 8; Gaz. vol. 183; p. 394.

Müller, Arthur and E., Berlin, Germany. Fixing the tangs of table-cutlery, tools, and the like in their handles. No. 1,030,321; June 25; Sp. p. 4934; Gaz. vol. 179; p. 880.

Müller, Auguste R., assignor to R. M. D. Syndicate, Limited, London, England. Material or composition and article made therefrom. No. 1,022,495; Apr. 9; Sp. p. 1560; Gaz. vol. 177; p. 280.

Müller, Carl A., Witzenhausen, Germany. Safety-lock. No. 1,031,953; July 9; Gaz. vol. 180; p. 426.

Müller, Carl O., Höchst-on-the-Main, and A. Luther, Nied-on-the-Main, assignors to Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany. Dyestuff. No. 1,041,146; Oct. 15; Gaz. vol. 183; p. 564.

Müller, Conrad, New York, N. Y. Releasing device. No. 1,024,948; Apr. 30; Sp. p. 6901; Gaz. vol. 177; p. 1212.

Müller, David, Mosbach, Germany. Fire-escape. No. 1,043,959; Nov. 12; Gaz. vol. 184; p. 353.

Müller, Eduard F., Leipzig-Lindenau, Germany. Paper-bag machine. No. 1,020,773; Mar. 19; Sp. p. 3769; Gaz. vol. 176; p. 661.

Muller, Edward, East New Durham, N. J. Vehicle-washer. No. 1,022,042; Apr. 2; Sp. p. 619; Gaz. vol. 177; p. 98.

Muller, Edward, Weehawken, N. J. Vehicle-washer. No. 1,046,839; Dec. 10; Gaz. vol. 185; p. 402.

Müller, Emil, Dusseldorf, Germany. Sight for rifles and machine-guns. No. 1,027,271; May 21; Sp. p. 4827; Gaz. vol. 178; p. 813.

Müller, Emil, Dusseldorf, assignor to Rheinische Metallwaaren- und Maschinenfabrik, Dusseldorf-Derendorf, Germany. Firing device for guns with differential recoils. No. 1,026,597; May 14; Sp. p. 3291; Gaz. vol. 178; p. 544.

Müller, Ernst. (See Müller, Arthur and E.)

Müller, Friedrich, Brebach-on-the-Saar, O. Johannsen, Neufechingen, and P. Pape, Brebach-on-the-Saar, assignors to Company Rudolph Böcking & Cie. Erben Stumm- Halberg und Rud. Böcking G. m. b. H., Halbergerhutte, near Brebach, Germany. Filtration of furnace-gases. No. 1,022,496; Apr. 9; Sp. p. 1561; Gaz. vol. 177; p. 280.

Müller, Fritz. (See Cloetta and Müller.)

Müller, Fritz, Cologne, Germany. Dirigible headlight. No. 1,042,137; Oct. 22; Gaz. vol. 183; p. 933.

Muller, Gottlieb U., Philadelphia, Pa. Automatic stabilizing apparatus for aeroplanes. No. 1,032,852; July 16; Gaz. vol. 180; p. 775.

Muller, Gustav A. H., Montreal, Quebec, Canada. Compound for exterminating vermin. No. 1,015,701; Jan. 23; Sp. p. 5764; Gaz. vol. 174; p. 982.

Müller, Hans, Hagen, Germany. Manufacturing bolts, rivets, and similar articles. No. 1,029,395; June 11; Sp. p. 2903; Gaz. vol. 179; p. 485.

Müller, Heinrich. (See Kuhlmann and Müller.)

Müller, Heinrich, assignor to Nürnberger Metall- und Lackierwarenfabrik vormals Gebrüder Bing, Aktiengesellschaft, Nuremberg, Germany. Means for producing a walking movement in toy figures. No. 1,035,098; Aug. 6; Gaz. vol. 181; p. 233.

Müller, Henry F., assignor to R. T. Randall & Co., Philadelphia, Pa. Sausage-stuffing machine. No. 1,014,605; Jan. 9; Sp. p. 3312; Gaz. vol. 174; p. 550.

Müller, Herman, Leipzig-Gohlis, assignor to A. Bleichert & Co., Leipzig, Germany. Device for lifting and lowering telpher-cars. No. 1,034,137; July 30; Gaz. vol. 180; p. 1273.

Müller, Herman J., assignor to The Hensel Silk Manufacturing Company, Philadelphia, Pa. Fringe-loom. No. 1,044,226; Nov. 12; Gaz. vol. 184; p. 442.

Alphabetical list of patentees—Continued.

Müller, Hermann, Leipzig, Germany. Refrigerating and carbonating apparatus. No. 1,046,482; Dec. 10; Gaz. vol. 185; p. 276.
Müller, Hermann, assignor to Adolf Bleichert & Company, Leipzig-Gohlis, Germany. Suspension-railway and the like. No. 1,044,902; Nov. 19; Gaz. vol. 184; p. 707.
Muller, John D., New York, N. Y. Motor-boat. No. 1,041,328; Oct. 15; Gaz. vol. 183; p. 626.
Müller, Philipp, Vilbel, Germany. Evaporator. No. 1,033,609; July 23; Gaz. vol. 180; p. 1066.
Muller, Richard, Highland Falls, N. Y. Match-box. No. 1,014,167; Jan. 9; Sp. p. 2390; Gaz. vol. 174; p. 400.
Muller, Richard O., Washington, D. C. Elastic-fluid turbine. No. 1,025,921; May 7; Sp. p. 1815; Gaz. vol. 178; p. 280.
Muller, Richard O., Washington, D. C. Turbine-rotor. No. 1,026,821; May 21; Sp. p. 3802; Gaz. vol. 178; p. 658.
Müller, Victor, Berlin, Germany. Apparatus for cutting threads on tubes and for cutting off tubes. No. 1,017,898; Feb. 20; Sp. p. 3717; Gaz. vol. 175; p. 647.
Müller, Walter, Grube Ilse, Lausitz, Germany. Press for making briquets and the like. No. 1,029,817; June 18; Sp. p. 3805; Gaz. vol. 179; p. 667.
Müllers, August, München-Gladbach, Germany. Napping-machine. No. 1,019,515; Mar. 5; Sp. p. 1169; Gaz. vol. 176; p. 173.
Mullin, John R., Rome, assignor of one-half to J. F. Holzinger, New York, N. Y. Non-refillable bottle. No. 1,028,077; May 28; Sp. p. 6557; Gaz. vol. 178; p. 1119.
Mullineux, Matthew, Vancouver, British Columbia, Canada. Filling and venting aperture for gasolene-tanks. No. 1,031,283; July 2; Gaz. vol. 180; p. 153.
Mullins, Micajah, Junction City, Kans. Educational device. No. 1,023,586; Apr. 16; Sp. p. 3997; Gaz. vol. 177; p. 686.
Mulloy, Patrick J., assignor of one-half to P. S. Houghton, Grand Forks, N. D. Grain-loader. No. 1,037,793; Sept. 3; Gaz. vol. 182; p. 205.
Mulroyan, Thomas E. (See Sprague and Mulroyan.)
Multi Color Attachment Company. (See Brooks and Galland, assignors.)
Multi-Rate Company, The. (See Davison, Andrew O., assignor.)
Multiplex Display Fixture Company. (See Feldmann and Crecelius, assignors.)
Multiplex Shuttle Embroidering Machine Company. (See Krusi, John, assignor.)
Multipost Company. (See Straight, Bennett D., assignor.)
Mulvehill, James, Dubuque, Iowa. Device for operating corn-planter markers. No. 1,018,581; Feb. 27; Sp. p. 5261; Gaz. vol. 175; p. 913.
Mulvey, William J., Youngstown, Ohio. Press. No. 1,018,676; Feb. 27; Sp. p. 5446; Gaz. vol. 175; p. 945.
Mulvihill, Daniel C., assignor to American Car & Foundry Company, Chicago, Ill. Ventilator for refrigerator-cars. No. 1,017,445; Feb. 13; Sp. p. 2697; Gaz. vol. 175; p. 455.
Mulvihill, Daniel C., assignor to American Car & Foundry Company, Chicago, Ill. Centering mechanism. No. 1,044,071; Nov. 12; Gaz. vol. 184; p. 391.
Mumford, Edgar H. (See Atha and Mumford.)
Mumford, Edgar H., Philadelphia, Pa. Jolt-ramming apparatus. No. 1,017,685; Feb. 20; Sp. p. 3167; Gaz. vol. 175; p. 570.
Mumford, Joseph F., Philadelphia, Pa., assignor to Automatic Brush Machinery Company, Wilmington, Del. Machine for manufacturing brushes. No. 1,016,951; Feb. 13; Sp. p. 1601; Gaz. vol. 175; p. 282.
Mumford, William S., Philadelphia, Pa. Damper. No. 1,020,216; Mar. 12; Sp. p. 2585; Gaz. vol. 176; p. 439.
Mumm & Co., G. H. (See Robinet, Georges, assignor.)
Mumma, Ira, Dayton, Ohio. Automatic water-feed acetylene-generator. No. 1,014,715; Jan. 16; Sp. p. 3613; Gaz. vol. 174; p. 619.
Mummelthey, Ferdinand, Coraopolis, Pa. Nut-lock. No. 1,046,483; Dec. 10; Gaz. vol. 185; p. 276.
Mumprecht, Paul. (See Honold, Rall, and Mumprecht.)
Muncaster, Walter J., Cumberland, Md. Crane. No. 1,023,438; Apr. 16; Sp. p. 3589; Gaz. vol. 177; p. 638.
Muncaster, Walter J., Cumberland, Md. Shafting machinery. No. 1,039,992; Oct. 1; Gaz. vol. 183; p. 107.
Munchausen, Arthur, Independence, La. Hat. No. 1,045,060; Nov. 19; Gaz. vol. 184; p. 763.
Munday, Daniel G., McAdoo, Pa. Shade and curtain hanger. No. 1,016,429; Feb. 6; Sp. p. 423; Gaz. vol. 175; p. 67.
Mundler, Samuel, London, England. Alarm for boxes and other receptacles. No. 1,027,272; May 21; Sp. p. 4829; Gaz. vol. 178; p. 814.
Mundt, John. (See Corlew, Clarence M., assignor.)
Munger, Herbert W., New York, N. Y. Expansion-bolt. No. 1,024,949; Apr. 30; Sp. p. 6903; Gaz. vol. 177; p. 1213.
Munger, James V., Portland, N. Y., assignor to G. H. Dunham, Warren, Pa. Car-coupling. No. 1,021,698; Mar. 26; Sp. p. 5689; Gaz. vol. 176; p. 1024.
Munger, James V., Portland, N. Y., assignor to G. H. Dunham, Warren, Pa. Car-coupling. No. 1,043,453; Nov. 5; Gaz. vol. 184; p. 145.
Munger, Vernon D., Massillon, Ohio. Wire-basket-fabric-making machine. No. 1,024,143; Apr. 23; Sp. p. 5112; Gaz. vol. 177; p. 899.
Munger, Vernon D., Antwerp, assignor to The Munger Wire Basket Company, Massillon, Ohio. Twister-head for wire-basket-making machines. No. 1,038,629; Sept. 17; Gaz. vol. 182; p. 559.
Munger, Verrenice, and C. S. Carter, assignors to The H. C. Cook Company, Ansonia, Conn. Index-tab. No. 1,023,219; Apr. 16; Sp. p. 3165; Gaz. vol. 177; p. 567.
Munger Wire Basket Company, The. (See Munger, Vernon D., assignor.)
Munich, Florian E., Philadelphia, Pa. Stocking. No. 1,016,354; Feb. 6; Sp. p. 263; Gaz. vol. 175; p. 41.
Municipal Supplies Company. (See Delaney, Joseph P., assignor.)
Munk, Heinrich, Berlin, Germany. Vehicle-wheel with elastic spokes. No. 1,017,988; Feb. 20; Sp. 3911; Gaz. vol. 175; p. 676.
Munker, Philip L., New York, N. Y. Game apparatus. No. 1,016,084; Jan. 30; Sp. p. 6585; Gaz. vol. 174; p. 1143.
Munro, Edward M., assignor of one-half to The R. E. T. Construction Company, Limited, London, England. Trolley-poles for electric traction systems. No. 1,021,206; Mar. 26; Sp. p. 4664; Gaz. vol. 176; p. 855.
Muns, David J., Dublin, Ga. Adjustable scaffold. No. 1,017,686; Feb. 20; Sp. p. 3168; Gaz. vol. 175; p. 570.
Munsen, Henry, Forsyth, Mont. Water-bicycle. No. 1,034,278; July 30; Gaz. vol. 180; p. 1323.
Munsick, George, *et al.* (See Troxler, Gustavus, assignor.)
Munson, Allan G., and M. N. Webster, St. Paul, Minn. Arc-lamp hanger and automatic cut-out. No. 1,026,360; May 14; Sp. p. 2817; Gaz. vol. 178; p. 466.
Munson, Charles M., deceased; J. Munson, Chicopee, Mass., administratrix. Paper-testing machine. No. 1,019,721; Mar. 5; Sp. p. 1548; Gaz. vol. 176; p. 240.
Munson, Hugh H., Truro, Iowa. Revolving clod-fender. No. 1,025,420; May 7; Sp. p. 687; Gaz. vol. 178; p. 108.
Munson, Jacob C., Pontiac, Ill. Gate attachment. No. 1,043,960; Nov. 12; Gaz. vol. 184; p. 353.
Munson, Jacob C., Pontiac, Ill. Alarm attachment for incubators. No. 1,046,630; Dec. 10; Gaz. vol. 185; p. 329.
Munson, John H., Lake Park, Minn. Automatic belt guide and thrower. No. 1,034,279; July 30; Gaz. vol. 180; p. 1323.
Munson, Julia, administratrix. (See Munson, Charles M.)
Munson, Maud C., Chicago, Ill. Warming-oven. No. 1,014,325; Jan. 9; Sp. p. 2740; Gaz. vol. 174; p. 457.
Munson, Sweney, Fowler, Colo. Guard-rail clamp. No. 1,027,212; May 21; Sp. p. 4716; Gaz. vol. 178; p. 792.
Munster, Ernst. (See Köhn, Claus H., assignor.)
Munton, Frederick T. (See Malcolm and Munton.)
Muntz, Albert I., Stype Grange, England. Staple. No. 1,035,032; Aug. 6; Gaz. vol. 181; p. 210.
Muntz, Raymond H., Greenville, Pa., assignor to Geiszler Starting Device Co., New York, N. Y. Starting device for internal-combustion engines. No. 1,037,653; Sept. 3; Gaz. vol. 182; p. 160.
Müntzing, Alvar, Stockholm, Sweden. Apparatus for separating solid matters from liquids. No. 1,048,853; Dec. 31; Gaz. vol. 185; p. 1193.
Munyan, James E., deceased; M. H. Munyan, administratrix, Mantua, N. J. Oil-filter. No. 1,035,807; Aug. 13; Gaz. vol. 181; p. 505.
Munyan, Mary H., administratrix. (See Munyan, James E.)
Munz, Charles W., Detroit, Mich. Round-top extension-table. No. 1,019,826; Mar. 12; Sp. p. 1750; Gaz. vol. 176; p. 307.
Munzer, Hugo, Paterson, N. J. Damper-regulator. No. 1,048,090; Dec. 24; Gaz. vol. 185; p. 894.
Münzner, Max, Newark, N. J., assignor to The Torsion Balance Company, New York, N. Y. Fabric-scale. No. 1,031,954; July 9; Gaz. vol. 180; p. 426.
Murch, George F., New York, N. Y. Trolley-wheel. No. 1,043,961; Nov. 12; Gaz. vol. 184; p. 353.
Murdick, Israel H., and C. J. Garey, Benton Harbor, Mich. Lifting-jack. No. 1,031,194; July 2; Gaz. vol. 180; p. 123.
Murdoch, Andrew, Ancon, Canal Zone. Fruit-picker. No. 1,026,996; May 21; Sp. p. 4222; Gaz. vol. 178; p. 720.
Murdock, A. R. (See Beal, Asher, assignor.)
Murdock, Charles B., Wenatchee, Wash. Current-motor. No. 1,047,274; Dec. 17; Gaz. vol. 185; p. 583.
Murdock, Darius J. W., Waterville, Wash. Pipe-coupling. No. 1,048,855; Dec. 31; Gaz. vol. 185; p. 1194.
Murdock, George F., Wellsville, Ohio. Lunch-box. No. 1,013,208; Jan. 2; Sp. p. 242; Gaz. vol. 174; p. 41.
Murdock, John F., and W. J. McFarlan, Paterson, N. J.; said Murdock assignor to said McFarlan. Type-writer. No. 1,048,854; Dec. 31; Gaz. vol. 185; p. 1193.
Murex Magnetic Company. (See Lockwood, Alfred A., assignor.)
Murfee, Edward H., Gainesville, Ga. Differential resonator. No. 1,044,227; Nov. 12; Gaz. vol. 184; p. 443.
Murgas, Joseph, Wilkes-Barre, Pa. Casting-reel. No. 1,024,739; Apr. 30; Sp. p. 6458; Gaz. vol. 177; p. 1139.

Alphabetical list of patentees—Continued.

Murken, Dietrich M., New York, N. Y. Draft-equalizer. No. 1,043,860; Nov. 12; Gaz. vol. 184; p. 316.
Murnin, Leslie G., New York, N. Y. Apparatus for vending individual drinks. No. 1,017,788; Feb. 20; Sp. p. 3448; Gaz. vol. 175; p. 606.
Muro, Raul D., Habana, Cuba. Vehicle-wheel. No. 1,036,685; Aug. 27; Gaz. vol. 181; p. 879.
Murphey, Frank P., Decatur, Ill. Corn-planter. No. 1,018,980; Feb. 27; Sp. p. 6097; Gaz. vol. 175; p. 1049.
Murphey, Frank P., Decatur, Ill. Corn-planter. No. 1,020,363; Mar. 12; Sp. p. 2857; Gaz. vol. 176; p. 484.
Murphey, William A., Dallas, Tex. Automatic advertising device. No. 1,019,688; Mar. 5; Sp. p. 1484; Gaz. vol. 176; p. 230.
Murphey, William W., Louisville, Ky. Combination bath and toilet cabinet. No. 1,038,630; Sept. 17; Gaz. vol. 182; p. 560.
Murphy, Albert C., New York, N. Y., assignor to Murphy Equipment Company. Column for railway-trucks. No. 1,033,189; July 23; Gaz. vol. 180; p. 926.
Murphy, Albert C., New York, N. Y., assignor to Murphy Equipment Company. Side frame for railway-trucks. No. 1,034,488; Aug. 6; Gaz. vol. 181; p. 29.
Murphy, Charles A., and M. W. Reynolds, Oakland, Cal. Illuminated spirit-level. No. 1,043,128; Nov. 5; Gaz. vol. 184; p. 28.
Murphy, Daniel R., Fredericktown, assignor to H. K. Porter Co., Pittsburgh, Pa. Compressed-air engine. No. 1,024,740; Apr. 30; Sp. p. 6459; Gaz. vol. 177; p. 1139.
Murphy, Edgar G., Montgomery, Ala. Telescope. No. 1,048,570; Dec. 31; Gaz. vol. 185; p. 1093.
Murphy, Edward H., Chicago, Ill. Heat-regulator. No. 1,013,424; Jan. 2; Sp. p. 740; Gaz. vol. 174; p. 117.
Murphy, Edward W., Bridgeport, Conn. Truck attachment for carrying beef. No. 1,015,393; Jan. 23; Sp. p. 5088; Gaz. vol. 174; p. 877.
Murphy, Edwin J., and J. Eaton, Schenectady, N. Y., assignors to General Electric Company. Motor-control system. No. 1,041,845; Oct. 22; Gaz. vol. 183; p. 836.
Murphy Equipment Company. (See Murphy, Albert C., assignor.)
Murphy, Francis P., Prince Albert, Saskatchewan, Canada. Display-rack. No. 1,049,133; Dec. 31; Gaz. vol. 185; p. 1290.
Murphy, Frank E., Lincoln, Ill. Trolley-harp. No. 1,016,430; Feb. 6; Sp. p. 426; Gaz. vol. 175; p. 67.
Murphy, Fred E. (See Hunt and Murphy.)
Murphy, Frederick M., Chicago, Ill. Fuel-feed system. No. 1,024,351; Apr. 23; Sp. p. 5529; Gaz. vol. 177; p. 969.
Murphy, George F., New Haven, Conn. Wind-shield. No. 1,031,020; July 2; Gaz. vol. 180; p. 60.
Murphy, George F., Providence, R. I., assignor to Fuel Oil Engine Company. Gas-engine. No. 1,013,888; Jan. 9; Sp. p. 1782; Gaz. vol. 174; p. 306.
Murphy, Harry A., and J. F. Simpson, Fulwood, Preston, England. Shuttle-threading device. No. 1,013,425; Jan. 2; Sp. p. 742; Gaz. vol. 174; p. 117.
Murphy, Howard M. P., assignor to The Westinghouse Air Brake Company, Pittsburgh, Pa. Duplex pressure-control apparatus. No. 1,015,824; Jan. 30; Sp. p. 6012; Gaz. vol. 174; p. 1050.
Murphy, Howard M. P., New York, N. Y., assignor to The Air Brake Company, Pittsburgh, Pa. Electric pump governor. No. 1,036,886; Aug. 27; Gaz. vol. 181; p. 944.
Murphy, Howard M. P., assignor to The Westinghouse Westinghouse Air Brake Company, Pittsburgh, Pa. Electric pump-governor. No. 1,037,039; Aug. 27; Gaz. vol. 181; p. 996.
Murphy Iron Works. (See Bigelow, Frank B., assignor.)
Murphy Iron Works. (See Phillip, George W., assignor.)
Murphy, James, London, England. Bottle-blowing machine. No. 1,043,129; Nov. 5; Gaz. vol. 184; p. 28.
Murphy, James A. (See Holiday, Ashley P., assignor.)
Murphy, James A., Holyoke, Mass. Base-ball bat. No. 1,025,478; May 7; Sp. p. 830; Gaz. vol. 178; p. 130.
Murphy, James A., Holyoke, and R. J. Harrison, Chicopee Falls, assignors of one-third to C. H. Morgan, Holyoke, Mass. Protective shoe for tires. No. 1,049,313; Dec. 31; Gaz. vol. 185; p. 1351.
Murphy, James H., St. Louis, Mo. Excavating-bucket, No. 1,033,822; July 30; Gaz. vol. 180; p. 1162.
Murphy, James J., assignor to Eagle Lock Co., Terryville, Conn. Suit-case lock. No. 1,028,482; June 4; Sp. p. 930; Gaz. vol. 179; p. 139.
Murphy, John B., assignor to The North and Pfeiffer Manufacturing Company, Hartford, Conn. Boot or shoe calk. No. 1,022,106; Apr. 2; Sp. p. 747; Gaz. vol. 177; p. 119.
Murphy, John F., Bridgeport, Conn. Combined hot and cold water valve. No. 1,017,789; Feb. 20; Sp. p. 3450; Gaz. vol. 175; p. 607.
Murphy, John F., assignor to Flour City Ornamental Iron Works, Minneapolis, Minn. Door-hanger. No. 1,038,938; Sept. 17; Gaz. vol. 182; p. 666.
Murphy, John T. (See George and Murphy, assignors.)
Murphy, John T., New York, N. Y. Attachment for baby-carriages. No. 1,039,993; Oct. 1; Gaz. vol. 183; p. 107.
Murphy, John W. (See Barry and Murphy.)
Murphy, Michael C., Philadelphia, Pa., assignor to A. G. Spalding & Bros. Manf'g. Co. Athletic putting-shot. 1,036,138; Aug. 20; Gaz. vol. 181; p. 658.
Murphy, Michael T., Grand Rapids, Mich. Yarn-cone. No. 1,037,295; Sept. 3; Gaz. vol. 182; p. 39.
Murphy, Patrick J., *et al.* (See Nill, John B., assignor.)
Murphy, Patrick J., Scranton, Pa. Hanger-wrench and splice-adjuster. No. 1,032,853; July 16; Gaz. vol. 180; p. 775.
Murphy, Peter F., Milwaukee, Wis. Waste connection. No. 1,025,584; May 7; Sp. p. 1075; Gaz. vol. 178; p. 166.
Murphy, Peter H. (See Hoffman, John J., assignor.)
Murphy, Peter H., Pittsburgh, Pa. Blow-off valve. No. 1,013,426; Jan. 2; Sp. p. 744; Gaz. vol. 174; p. 117.
Murphy, Timothy J. (See George and Murphy.)
Murphy Wall Bed Company. (See Murphy, William L., assignor. (Reissue.)
Murphy, Walter P., *et al.* (See Acker, Julius J., assignor.)
Murphy, Walter P. (See Conwell, Samuel H., assignor.)
Murphy, Walter P., St. Louis, Mo. Car-roof. No. 1,030,599; June 25; Sp. p. 5656; Gaz. vol. 179; p. 980.
Murphy, Walter P., St. Louis, Mo. Bracket for uncoupling-levers. No. 1,031,810; July 9; Gaz. vol. 180; p. 376.
Murphy, Walter P., St. Louis, Mo. Release-rigging. No. 1,043,930; Nov. 12; Gaz. vol. 184; p. 341.
Murphy, Walter P., Chicago, Ill. Car-roof. No. 1,030,600; June 25; Sp. p. 5658; Gaz. vol. 179; p. 980.
Murphy, Walter P., Chicago, Ill. Car-roof. No. 1,030,601; June 25; Sp. p. 5660; Gaz. vol. 179; p. 981.
Murphy, Walter P., Chicago, Ill. Car-roof. No. 1,030,602; June 25; Sp. p. 5664; Gaz. vol. 179; p. 981.
Murphy, Walter P., Chicago, Ill. Metal car-roof. No. 1,030,603; June 25; Sp. p. 5667; Gaz. vol. 179; p. 982.
Murphy, Walter P., Chicago, Ill. Release-rigging. No. 1,031,811; July 9; Gaz. vol. 180; p. 377.
Murphy, Walter P., and V. E. Sisson, Chicago, Ill.; said Sisson assignor to said Murphy. Railway-car-end construction. No. 1,031,571; July 2; Gaz. vol. 180; p. 251.
Murphy, William, Manchester, assignor to F. Reddaway, Pendleton, England. Machine for weaving tubular goods. No. 1,014,716; Jan. 16; Sp. p. 3618; Gaz. vol. 174; p. 619.
Murphy, William L., assignor to Murphy Wall Bed Company, San Francisco, Cal. Disappearing bed. (Reissue.) No. 13,428; June 11; Sp. p. 3272; Gaz. vol. 179; p. 549.
Murphy, William L., San Francisco, Cal., assignor to Murphy Wall Bed Company. Disappearing bed. No. 1,030,201; June 18; Sp. p. 4643; Gaz. vol. 179; p. 798.
Murphy, William L., San Francisco, Cal., assignor to Murphy Wall Bed Company. Hinge. No. 1,041,147; Oct. 15; Gaz. vol. 183; p. 564.
Murphy, William T., Providence, R. I., assignor to Standard Machinery Company. Safety device. No. 1,046,840; Dec. 10; Gaz. vol. 185; p. 402.
Murray, Alexander. (See Edgington, William F., assignor.)
Murray, Archibald B., Ross, assignor of forty-five one-hundredths to E. R. Bowne, San Francisco, Cal. Gas-burner. No. 1,024,016; Apr. 23; Sp. p. 4806; Gaz. vol. 177; p. 854.
Murray, Aristides R., assignor to The Cincinnati Shaper Company, Cincinnati, Ohio. Shaping-machine. No. 1,023,268; Apr. 16; Sp. p. 3272; Gaz. vol. 177; p. 584.
Murray, Aristides R., assignor to The Cincinnati Shaper Co., Cincinnati, Ohio. Driving mechanism. No. 1,028,771; June 4; Sp. p. 1510; Gaz. vol. 179; p. 235.
Murray, Charles A., *et al.* (See McStay, William F., assignor.)
Murray, Charles F., assignor to American Steel Foundries, Chicago, Ill. Knuckle-pin retainer for car-couplings. No. 1,026,278; May 14; Sp. p. 2613; Gaz. vol. 178; p. 438.
Murray, Charles R., Chicago, Ill. Iron furniture. No. 1,016,355; Feb. 6; Sp. p. 264; Gaz. vol. 175; p. 41.
Murray, Chauncey A., Cumberland, Wyo. Suspenders. No. 1,045,427; Nov. 26; Gaz. vol. 184; p. 918.
Murray, Christopher A., Pawtucket, assignor of one-half to A. O. Coates, Providence, R. I. Combined shirt-waist holder, skirt-supporter, and waist-former. No. 1,044,072; Nov. 12; Gaz. vol. 184; p. 391.
Murray, Donald, London, England. Printer for multiplex printing-telegraph systems. No. 1,021,942; Apr. 2; Sp. p. 396; Gaz. vol. 177; p. 65.
Murray, Edward L., Council Bluffs, Iowa. Elevator-gate-closing device. No. 1,042,949; Oct. 29; Gaz. vol. 183; p. 1239.
Murray, Edward T., *et al.* (See Murray, John F., assignor.)
Murray, Esther, assignor to The Resilient Motor Wheel Syndicate Limited, London, England. Spring vehicle-wheel. (Reissue.) No. 13,364; Jan. 16; Sp. p. 4823; Gaz. vol. 174; p. 812.
Murray, Eugene, Washington, D. C., assignor to L. Jordan, Port Gibson, Miss. Pneumatic cotton-picker. No. 1,024,455; Apr. 23; Sp. p. 5766; Gaz. vol. 177; p. 1003.
Murray, Gilbert V., Seattle, Wash. Folding ironing-table. No. 1,036,887; Aug. 27; Gaz. vol. 181; p. 945.
Murray, Gordon B., Grant City, Mo. Culvert-mold. No. 1,029,024; June 11; Sp. p. 2081; Gaz. vol. 179; p. 358.
Murray, Harry D. (See Fithian and Murray.)

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Murray, Harry D., assignor to The Bessemer Gas Engine Company, Grove City, Pa. Inlet-valve for compressors. No. 1,029,025; June 11; Sp. p. 2084; Gaz. vol. 179; p. 359.
Murray and Jacobs Manufacturing Company. (See Jacobs, Charles B., assignor.)
Murray, James A. (See Mahoney, Jeremiah L., assignor.)
Murray, James A., assignor of one-half to J. L. Mahoney, New Haven, Conn. Apparatus for producing rubber bulbs for atomizers, syringes, &c. No. 1,040,737; Oct. 8; Gaz. vol. 183; p. 395.
Murray, James E., McKeesport, Pa. Vehicle wheel and axle. No. 1,026,220; May 14; Sp. p. 2503; Gaz. vol. 178; p. 419.
Murray, James E., Brooklyn, assignor to A. R. Mosler, New York, N. Y. Spark-plug. No. 1,033,449; July 23; Gaz. vol. 180; p. 1013.
Murray, James W., Fort McPherson, Ga. Filler for ice-cream cones. No. 1,045,166; Nov. 26; Gaz. vol. 184; p. 827.
Murray, John B., Ellwood City, Pa. Piano-action. No. 1,034,489; Aug. 6; Gaz. vol. 181; p. 29.
Murray, John B., and M. E. Caven, Ellwood City, Pa. Overshoe-fastener. No. 1,038,939; Sept. 17; Gaz. vol. 182; p. 667.
Murray, John F. (See Shannon, Harris C., assignor.)
Murray, John F., Chicago, Ill. Safety-razor. No. 1,046,005; Dec. 3; Gaz. vol. 184; p. 71.
Murray, John F., assignor of one-third to G. A. Schrody and one-third to E. T. Murray, Colorado Springs, Colo. Match-box. No. 1,029,080; June 11; Sp. p. 2185; Gaz. vol. 179; p. 376.
Murray, John H., Bay View, Md. Grain-separator. No. 1,031,144; July 2; Gaz. vol. 180; p. 105.
Murray, Michael F., Oakland, Cal. Automatic temperature-regulator. No. 1,015,204; Jan. 16; Sp. p. 4654; Gaz. vol. 174; p. 785.
Murray, Michael P., Cresson, Pa. Railway-clamp. No. 1,045,730; Nov. 26; Gaz. vol. 184; p. 1028.
Murray, Stanley G. (See Clifford and Murray.)
Murray, Stephen D., Dallas, Tex. Cotton-feeder. No. 1,017,446; Feb. 13; Sp. p. 2699; Gaz. vol. 175; p. 455.
Murray, Stephen D., Dallas, Tex. Huller-gin. No. 1,028,772; June 4; Sp. p. 1513; Gaz. vol. 179; p. 236.
Murray, Thomas E., New York, N. Y. Spring contact-plates. No. 1,018,334; Feb. 20; Sp. p. 4629; Gaz. vol. 175; p. 795.
Murray, Thomas E., New York, N. Y. Fuse-case. No. 1,021,549; Mar. 26; Sp. p. 5423; Gaz. vol. 176; p. 976.
Murray, Thomas E., New York, N. Y. Electric cut-out. No. 1,021,550; Mar. 26; Sp. p. 5424; Gaz. vol. 176; p. 977.
Murray, Thomas E., New York, N. Y. Junction-box. No. 1,023,220; Apr. 16; Sp. p. 3167; Gaz. vol. 177; p. 567.
Murray, Thomas E., New York, N. Y. Electric cut-out. No. 1,023,326; Apr. 16; Sp. p. 3381; Gaz. vol. 177; p. 603.
Murray, Thomas E., New York, N. Y. Guard device. No. 1,028,253; June 4; Sp. p. 420; Gaz. vol. 179; p. 61.
Murray, Thomas E., New York, N. Y. Meter-testing cut-out. No. 1,028,254; June 4; Sp. p. 421; Gaz. vol. 179; p. 61.
Murray, Thomas E., New York, N. Y. Fuse-case. No. 1,028,255; June 4; Sp. p. 424; Gaz. vol. 179; p. 61.
Murray, Thomas E., New York, N. Y. Electric cut-out. No. 1,028,256; June 4; Sp. p. 425; Gaz. vol. 179; p. 61.
Murray, Thomas E., New York, N. Y. Joint for sheathed conductors. No. 1,028,257; June 4; Sp. p. 427; Gaz. vol. 179; p. 62.
Murray, Thomas E., New York, N. Y. Electric cut-out. No. 1,028,258; June 4; Sp. p. 428; Gaz. vol. 179; p. 62.
Murray, Thomas E., New York, N. Y. Connection device for circuit-conductors. No. 1,028,259; June 4; Sp. p. 429; Gaz. vol. 179; p. 62.
Murray, Thomas E., New York, N. Y. Junction-box for circuit-conductors. No. 1,028,260; June 4; Sp. p. 432; Gaz. vol. 179; p. 62.
Murray, Thomas E., New York, N. Y. Meter-testing service cut-out. No. 1,031,363; July 2; Gaz. vol. 180; p. 180.
Murray, Thomas E., New York, N. Y. Meter-testing connection-block. No. 1,036,507; Aug. 20; Gaz. vol. 181; p. 787.
Murray, Thomas E., New York, N. Y. Connection device for circuit-conductors. No. 1,036,508; Aug. 20; Gaz. vol. 181; p. 787.
Murray, Thomas E., New York, N. Y. Forming integral flanges on bodies of ductile metal. No. 1,036,509; Aug. 20; Gaz. vol. 181; p. 788.
Murray, Thomas E., New York, N. Y. Electric fuse. No. 1,036,510; Aug. 20; Gaz. vol. 181; p. 788.
Murray, Thomas E., New York, N. Y. Electric cut-out. No. 1,041,846; Oct. 22; Gaz. vol. 183; p. 836.
Murray, Thomas E., New York, N. Y. Electric cut-out. No. 1,041,847; Oct. 22; Gaz. vol. 183; p. 837.
Murray, Thomas E., New York, N. Y. Protective casing for electric meters. No. 1,048,856; Dec. 31; Gaz. vol. 185; p. 1194.
Murray, Thomas E., New York, N. Y. Electric cut-out. No. 1,048,857; Dec. 31; Gaz. vol. 185; p. 1194.
Murray, Thomas E., New York, N. Y. Electric bath-cabinet. No. 1,048,858; Dec. 31; Gaz. vol. 185; p. 1195.
Murray, Thomas E., and P. Torchio, New York, N. Y. Reactance-coil. No. 1,017,348; Feb. 13; Sp. p. 2473; Gaz. vol. 175; p. 420.
Murray, Thomas E., Jr., New York, N. Y. Electric fuse. No. 1,048,859; Dec. 31; Gaz. vol. 185; p. 1195.
Murray, Thomas P. (See Revell and Murray.)
Murray, Thomas P., assignor to A. H. Revell, Chicago, Ill. Stove. No. 1,043,341; Nov. 5; Gaz. vol. 184; p. 106.
Murray, Warren E. (See Hannam and Murray.)
Murray, William J. (See Adams and Murray.)
Murray, William J. (See Shaw, David J., assignor.)
Murray, William T., Baldwin, Kans. Spring-wheel. No. 1,018,259; Feb. 20; Sp. p. 4489; Gaz. vol. 175; p. 770.
Murray, William T., Baldwin, Kans. Curtain for vehicle-tops. No. 1,034,280; July 30; Gaz. vol. 180; p. 1324.
Murta, Samuel, St. Louis, Mo. Water-elevator. No. 1,016,085; Jan. 30; Sp. p. 6588; Gaz. vol. 174; p. 1144.
Musgrave, Claude E. (See Musgrave, Mark and C. E.)
Musgrave, Mark and C. E., Pittsburg, Kans. Carbureter for gas-engines. No. 1,043,342; Nov. 5; Gaz. vol. 184; p. 106.
Musil, Joseph M., Cleburne, Kans. Filing-cabinet. No. 1,045,317; Nov. 26; Gaz. vol. 184; p. 879.
Musk, Albert, Rochester, N. Y. Tape-holder. No. 1,020,152; Mar. 12; Sp. p. 2438; Gaz. vol. 176; p. 415.
Mussbeck, Karl, Munich, Germany. Means for preserving oil-paintings and similar art objects. No. 1,031,727; July 9; Gaz. vol. 180; p. 347.
Musser, John L., Lancaster, Pa. Apparatus for treating clay. No. 1,029,708; June 18; Sp. p. 3573; Gaz. vol. 179; p. 630.
Musser, William. (See Sailer, John M., assignor.)
Mussey, William H., Richmond Hill, N. Y. Basket-rack. No. 1,029,621; June 18; Sp. p. 3366; Gaz. vol. 179; p. 599.
Mussey, William H., Richmond Hill, N. Y. Suspension means for motor-generators. No. 1,029,622; June 18; Sp. p. 3367; Gaz. vol. 179; p. 599.
Mustin, Herbert S., assignor to The Austin Manufacturing Company, Chicago, Ill. Grass-cutting machine. No. 1,013,209; Jan. 2; Sp. p. 243; Gaz. vol. 174; p. 41.
Mustin, Herbert S., assignor to The Austin Manufacturing Company, Chicago, Ill. Power-driven lawn-mower. No. 1,014,663; Jan. 16; Sp. p. 3508; Gaz. vol. 174; p. 601.
Mustin, Herbert S., assignor to The Austin Manufacturing Company, Chicago, Ill. Clutch mechanism. No. 1,015,394; Jan. 23; Sp. p. 5090; Gaz. vol. 174; p. 877.
Mustin, James G. (See Broden and Mustin.)
Muth, Claud C., Chicago, Ill. Machine for sharpening safety-razor blades. No. 1,048,571; Dec. 31; Gaz. vol. 185; p. 1094.
Muth, Eugene W. (See Muth, Walter F. and E. W.)
Muth, John. (See Heinkel and Muth.)
Muth, John, Britton, S. D. Hen's nest. No. 1,017,790; Feb. 20; Sp. p. 3452; Gaz. vol. 175; p. 607.
Muth, John, assignor to The E. H. Hotchkiss Company, Norwalk, Conn. Tack-strip. No. 1,045,591; Nov. 26; Gaz. vol. 184; p. 977.
Muth, Walter F. and E. W., Dayton, Ohio. Derrick. No. 1,023,327; Apr. 16; Sp. p. 3383; Gaz. vol. 177; p. 604.
Muther, Lorenz. (See Muther and Sprye, assignors.)
Muther, Lorenz, Boston, Mass. Machine for covering eyelets. No. 1,022,043; Apr. 2; Sp. p. 622; Gaz. vol. 177; p. 98.
Muther, Lorenz F., Newton, and W. M. Sprye, Lynn, assignors to L. Muther, Boston, Mass. Eyelet-setting machine. No. 1,044,410; Nov. 12; Gaz. vol. 184; p. 507.
Mutter, Charles, Paterson, N. J. Game apparatus. No. 1,021,788; Apr. 2; Sp. p. 67; Gaz. vol. 177; p. 14.
Muzzy, William H., assignor, by mesne assignments, to The National Cash Register Company, Dayton, Ohio. Cash-register. No. 1,013,210; Jan. 2; Sp. p. 245; Gaz. vol. 174; p. 42
Muzzy, William H., assignor to The National Cash Register Company, Dayton, Ohio. Combination typewriting and adding machine. No. 1,013,211; Jan. 2; Sp. p. 250; Gaz. vol. 174; p. 42.
Muzzy, William H., assignor to The National Cash Register Company, Dayton, Ohio. Cash-register. No. 1,015,825; Jan. 30; Sp. p. 6014; Gaz. vol. 174; p. 1051.
Muzzy, William H., assignor to The National Cash Register Company, Dayton, Ohio. Cash-register. No. 1,025,990; May 14; Sp. p. 1958; Gaz. vol. 178; p. 338.
Muzzy, William H., assignor to The National Cash Register Company, Dayton, Ohio. Cash-register. No. 1,026,762; May 21; Sp. p. 3680; Gaz. vol. 178; p. 638.
Muzzy, William H., assignor to The National Cash Register Company, Dayton, Ohio. Cash-register. No. 1,026,763; May 21; Sp. p. 3686; Gaz. vol. 178; p. 639.
Muzzy, William H., assignor to The National Cash Register Company, Dayton, Ohio. Filing appliance. No. 1,031,021; July 2; Gaz. vol. 180; p. 60.
Muzzy, William H., assignor to The National Cash Register Company, Dayton, Ohio. Cash-register. No. 1,036,686; Aug. 27; Gaz. vol. 181; p. 879.

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Muzzy, William H., assignor, by mesne assignments, to The National Cash Register Company, Dayton, Ohio. Cash-register. No. 1,037,967; Sept. 10; Gaz. vol. 182; p. 300.
Muzzy, William H., New York, N. Y., assignor to The National Cash Register Company, Dayton, Ohio. Cash-register. No. 1,024,593; Apr. 30; Sp. p. 6157; Gaz. vol. 177; p. 1087.
Muzzy, William H., assignor, by mesne assignments, to The National Cash Register Company, Dayton, Ohio. Registering-scale. No. 1,047,685; Dec. 17; Gaz. vol. 185; p. 729.
Muzzy, William H., assignor, by mesne assignments, to The National Cash Register Company, Dayton, Ohio. Cash-register. No. 1,047,686; Dec. 17; Gaz. vol. 185; p. 729.
Muzzy, William H., assignor to The National Cash Register Company, Dayton, Ohio. Cash-register and money-changer. No. 1,048,860; Dec. 31; Gaz. vol. 185; p. 1195.
Muzzy, William H., New York, N. Y., assignor to The National Cash Register Company, Dayton, Ohio. Cash-register. No. 1,048,861; Dec. 31; Gaz. vol. 185; p. 1195.
Muzzy, William H., New York, N. Y., assignor to National Cash Register Company, Dayton, Ohio. Adding-machine. No. 1,039,783; Oct. 1; Gaz. vol. 183; p. 39.
Myer, Albert P., Minneapolis, assignor of one-half to O. T. Dougherty, St. Paul, Minn. Sewing-machine needle. No. 1,024,416; Apr. 23; Sp. p. 5684; Gaz. vol. 177; p. 990.
Myers, Benjamin, Spokane, Wash. Safety-stirrup. No. 1,025,824; May 7; Sp. p. 1569; Gaz. vol. 178; p. 248.
Myers and Brother, F. E. (See Myers, Philip A., assignor.)
Myers, Charles E. (See Savignac and Myers.)
Myers, Charles G., Cleveland, Ohio. Light concentrator and projector. No. 1,042,716; Oct. 29; Gaz. vol. 183; p. 1161.
Myers, Charles H., Franklin, Pa. Antiskidding attachment for wheels. No. 1,016,846; Feb. 6; Sp. p. 1353; Gaz. vol. 175; p. 209.
Myers, Charles H., Buffalo, N. Y. Fence-post. No. 1,041,848; Oct. 22; Gaz. vol. 183; p. 837.
Myers, Charles H., Buffalo, N. Y. Motor-boat. No. 1,041,849; Oct. 22; Gaz. vol. 183; p. 837.
Myers, Charley A., Lexington, Nebr. Draw-bar. No. 1,044,903; Nov. 19; Gaz. vol. 184; p. 708.
Myers, Charley A., Lexington, Nebr. Cooling device for gas-engines. No. 1,045,061; Nov. 19; Gaz. vol. 184; p. 763.
Myers, Cornelius T., Racine, Wis. Pumping-engine plant. No. 1,034,490; Aug. 6; Gaz. vol. 181; p. 29.
Myers, David M., Hurdsfield, assignor to Myers Manufacturing Company, Fargo, N. D. Hay and grain loader. No. 1,019,344; Mar. 5; Sp. p. 752; Gaz. vol. 176; p. 117.
Myers, Edgar W., assignor to Euterpean Duplicator Company, Inc., Seattle, Wash. Machine for making perforated music. No. 1,021,327; Mar. 26; Sp. p. 4919; Gaz. vol. 176; p. 899.
Myers, Edgar W., assignor to Master Roll Music Duplicating Company, San Jose, Cal. Music-perforating machine. No. 1,046,322; Dec. 3; Gaz. vol. 185; p. 182.
Myers, Elmer J., Martinsburg, assignor of one-half to C. F. Brown, Hollidaysburg, Pa. Valve-gear. No 1,028,592; June 4; Sp. p. 1154; Gaz. vol. 179; p. 175.
Myers, Frederick, New York, N. Y. Razor-stropper. No. 1,036,687; Aug. 27; Gaz. vol. 181; p. 879.
Myers, George M., Toronto, Ohio. Pipe-forming apparatus. No. 1,015,334; Jan. 23; Sp. p. 4967; Gaz. vol. 174; p. 857.
Myers, Gurney, Lansdale, Pa. Carpenter's laying-out tool. No. 1,024,863; Apr. 30; Sp. p. 6722; Gaz. vol. 177; p. 1183.
Myers, Gurney, Lansdale, Pa. Carpenter's laying-out tool. No. 1,032,493; July 16; Gaz. vol. 180; p. 652.
Myers, Harry T., Chicago, Ill. Combined bumper and fender. No. 1,026,279; May 14; Sp. p. 2613; Gaz. vol. 178; p. 438.
Myers, Hubert A., Goshen, Ind. Hoisting device. No. 1,014,326; Jan. 9; Sp. p. 2741; Gaz. vol. 174; p. 457.
Myers, Hubert A., Goshen, Ind. Hoisting device. No. 1,014,327; Jan. 9; Sp. p. 2744; Gaz. vol. 174; p. 457.
Myers, Hubert A., Goshen, Ind. Hoisting device. No. 1,040,386; Oct. 8; Gaz. vol. 183; p. 270.
Myers, Hubert A., Goshen, Ind., assignor to United States Chemical Co., Chicago, Ill. Grave-vault. No. 1,033,823; July 30; Gaz. vol. 180; p. 1162.
Myers, Isaac M., and O. Erwin, Ellington, Mo. Rail-joint regulator. No. 1,018,436; Feb. 27; Sp. p. 4875; Gaz. vol. 175; p. 863.
Myers, Isaac N., Los Angeles, Cal. Life-saving device. No. 1,030,525; June 25; Sp. p. 5429; Gaz. vol. 179; p. 954.
Myers, James J., Thurles, Ireland. Variable-speed gearing. No. 1,047,551; Dec. 17; Gaz. vol. 185; p. 680.
Myers, James R., Fairmont, W. Va. Machine to open the foot of a goblet. No. 1,013,427; Jan. 2; Sp. p. 746; Gaz. vol. 174; p. 118.
Myers, Jesse J., East Lansing, Mich. Model of the human eye. No. 1,042,815; Oct. 29; Gaz. vol. 183; p. 1194.
Myers, John H. (See Parsons and Myers.)
Myers, Josiah M., Davenport, Iowa. Chiropractic table. No. 1,042,252; Oct. 22; Gaz. vol. 183; p. 971.
Myers, Laura M., Chicago, Ill. Twine cutter and holder. No. 1,020,111; Mar. 12; Sp. p. 2359; Gaz. vol. 176; p. 403.
Myers, Leopold, Birmingham, England. Drawing-compasses. No. 1,047,275; Dec. 17; Gaz. vol. 185; p. 583.
Myers, Levi S., Concordia, Kans. Hand-brace for guns. No. 1,022,437; Apr. 9; Sp. p. 1452; Gaz. vol. 177; p. 260.
Myers, Lewis A., Jr., Newark, N. J. Belt-buckle. No. 1,025,991; May 14; Sp. p. 1961; Gaz. vol. 178; p. 338.
Myers, Lewis A., Jr., Newark, N. J. Garment-supporter. No. 1,049,134; Dec. 31; Gaz. vol. 185; p. 1290.
Myers, Lewis J., Hannibal, Mo. Brake. No. 1,033,261; July 23; Gaz. vol. 180; p. 951.
Myers, Louis, New York, N. Y. Pencil-sharpening machine. No. 1,043,861; Nov. 12; Gaz. vol. 184; p. 316.
Myers, Louis, Newark, N. J., assignor, by mesne assignments, to Newell & Neal. Safety-chest. No. 1,044,228; Nov. 12; Gaz. vol. 184; p. 443.
Myers, Louis E. (See Wood, Montraville M., assignor.)
Myers Manufacturing Company. (See Myers, David M., assignor.)
Myers, Philip A., assignor to F. E. Myers and Brother, Ashland, Ohio. Pump. No. 1,014,664; Jan. 16; Sp. p. 3511; Gaz. vol. 174; p. 601.
Myers, Phineas B., Morristown, N. J. Paper box for culture-tubes and similar articles. No. 1,021,998; Apr. 2; Sp. p. 529; Gaz. vol. 177; p. 83.
Myers, Reuben F. (See Pruden, Henry B., assignor.)
Myers, Samuel F., University City, Mo. Fireplace-damper. No. 1,047,434; Dec. 17; Gaz. vol. 185; p. 638.
Myers, William L., Wichita, Kans. Clamping-plate for rails. No. 1,047,687; Dec. 17; Gaz. vol. 185; p. 730.
Myers, William M., *et al.* (See Fleming, Edward, assignor.)
Myers, William M., St. Joseph, Mo. Rotary explosion-engine. No. 1,043,454; Nov. 5; Gaz. vol. 184; p. 146.
Mygatt, Otis A., New York, N. Y. Compound shade-reflector of glass. No. 1,019,179; Mar. 5; Sp. p. 388; Gaz. vol. 176; p. 61.
Mygatt, Otis A., New York, N. Y. Glass structure. No. 1,041,329; Oct. 15; Gaz. vol. 183; p. 627.
Mygatt, Otis A., New York, N. Y. Pressed or molded ribbed glassware. No. 1,042,463; Oct. 29; Gaz. vol. 183; p. 1071.
Mygatt, Otis A., New York, N. Y. Reflector for artificial lights. No. 1,043,787; Nov. 5; Gaz. vol. 184; p. 259.
Myles, James C., and H. Girvin, San Francisco, Cal. Sand-blast. No. 1,038,781; Sept. 17; Gaz. vol. 182; p. 612.
Myrholm, Peder, assignor of one-half to J. Martinson, Volga, S. D. Barrel-truck. No. 1,018,260; Feb. 20; Sp. p. 4491; Gaz. vol. 175; p. 771.
Myrick, Fred C. (See Williams and Myrick.)
Myrtin, Sven M., Stockholm, Sweden. Flat screen. No. 1,027,143; May 21; Sp. p. 4582; Gaz. vol. 178; p. 770.
Mytton, Richard G. V., deceased; D. Barker, executor, Los Angeles, Cal. Flying-machine. No. 1,017,989; Feb. 20; Sp. p. 3911; Gaz. vol. 175; p. 677.
N. O. Nelson Manufacturing Company. (See Lawnin, Louis D., assignor.)
Nachod, Carl P., Philadelphia, Pa. Signaling apparatus. No. 1,044,411; Nov. 12; Gaz. vol. 184; p. 507.
Nachtigall, Paul F., Fort Wayne, Ind. Tombstone, sign, &c. No. 1,021,789; Apr. 2; Sp. p. 69; Gaz. vol. 177; p. 15.
Nacirema Chemical Company. (See Dunham, Henry V., assignor.)
Nacken, Walter, Erlau, Germany. Multiple-wire-drawing machine. No. 1,031,572; July 2; Gaz. vol. 180; p. 251.
Nadler, William, and M. Ressler, Montreal, Quebec, Canada. Car-fender. No. 1,023,027; Apr. 9; Sp. p. 2705; Gaz. vol. 177; p. 462.
Nadorff, Henry, Louisville, Ky. Bung and bushing therefor. No. 1,039,994; Oct. 1; Gaz. vol. 183; p. 108.
Naegelen, Charles, assignor to The Cincinnati Butcher's Supply Company, Cincinnati, Ohio. Auxiliary refrigerator-door. No. 1,046,400; Dec. 3; Gaz. vol. 185; p. 210.
Nageborn, William E., Detroit, Mich. Carbureter. No. 1,018,126; Feb. 20; Sp. p. 4216; Gaz. vol. 175; p. 725.
Nagel, Firm of A. W. (See Bisdorf, Wilhelm, assignor.)
Nagel, Firm of A. W. (See Kant, Gustav, assignor.)
Nagel, Carl, Gliesmarode, Germany. Sack-scale. No. 1,045,062; Nov. 19; Gaz. vol. 184; p. 764.
Nagel-Chase Manufacturing Company, The. (See Granz, Joseph, assignor.)
Nagel, John. (See Starkweather and Nagel.)
Nagel, Simon J., Glen Ullin, N. D. Oil-can attachment. No. 1,017,899; Feb. 20; Sp. p. 3719; Gaz. vol. 175; p. 647.
Nagel, Theodore, Chicago, Ill. Automatic regulating-switch. No. 1,042,950; Oct. 29; Gaz. vol. 183; p. 1240.
Nagel, William G., assignor of one-third to I. Kinsey and one-third to F. Collins, Toledo, Ohio. Carbureter. No. 1,016,169; Jan. 30; Sp. p. 6731; Gaz. vol. 174; p. 1170.

Alphabetical list of patentees—Continued.

Nagy, Laslo, Sharpsville, Pa. Hat-pin-point protector. No. 1,033,450; July 23; Gaz. vol. 180; p. 1013.
Nagy, Louis, New York, N. Y. Alarm-lock. No. 1,047,105; Dec. 10; Gaz. vol. 185; p. 490.
Nahemow, Louis, New York, N. Y. Safety-razor. No. 1,018,437; Feb. 27; Sp. p. 4877; Gaz. vol. 175; p. 863.
Nailler, Raymond F., Elyria, Ohio. Seam-welding apparatus. No. 1,031,812; July 9; Gaz. vol. 180; p. 377.
Nair, Frank. (See Nair, Louis and F.)
Nair, Louis and F., New Britain, Conn. Broom. No. 1,027,752; May 28; Sp. p. 5804; Gaz. vol. 178; p. 1011.
Nairn, Charles J. (See Hawkins and Ogilvie, assignors.)
Nakamura, Masawo K., Seattle, Wash. Drilling-machine. No. 1,032,292; July 9; Gaz. vol. 180; p. 540.
Nalepka, Walenty, assignor of one-half to L. Kulawik, South Omaha, Nebr. Pit-car brake. No. 1,018,261; Feb. 20; Sp. p. 4493; Gaz. vol. 175; p. 772.
Nalepka, Walenty, assignor of one-sixth to P. Zurek, one-sixth to K. Siewnak, and one-sixth to S. Wiernek, South Omaha, Nebr. Rail-joint. No. 1,028,483; June 4; Sp. p. 931; Gaz. vol. 179; p. 139.
Nalepka, Walenty, assignor of one-sixth to P. Zurek, one-sixth to K. Siewnak, and one-sixth to S. Wiernek, South Omaha, Nebr. Metallic tie. No. 1,028,484; June 4; Sp. p. 932; Gaz. vol. 179; p. 140.
Nall, Fred M., Port Henry, N. Y. Fowl-fumigator. No. 1,040,387; Oct. 8; Gaz. vol. 183; p. 270.
Nall, James N., Barham, La. Churn. No. 1,045,872; Dec. 3; Gaz. vol. 185; p. 26.
Nameche, Joseph, Tarentum, assignor to Pittsburgh Plate Glass Company, Pittsburgh, Pa. Machinery for engaging and carrying loads. No. 1,021,469; Mar. 26; Sp. p. 5265; Gaz. vol. 176; p. 949.
Namur, Joseph, Kinsley, Kans. Carbureter. No. 1,022,326; Apr. 2; Sp. p. 1204; Gaz. vol. 177; p. 192.
Nance, Charles W., London, England. Aspirator. No. 1,020,709; Mar. 19; Sp. p. 3632; Gaz. vol. 176; p. 638.
Nangle, James H., Lynn, Mass. Beading-machine. No. 1,024,219; Apr. 23; Sp. p. 5286; Gaz. vol. 177; p. 926.
Nangle, James H., Lynn, Mass. Beading-machine. No. 1,033,190; July 23; Gaz. vol. 180; p. 927.
Napolitano, Alfred, Lake Charles, La. Attachment for fountain-pens. No. 1,015,702; Jan. 23; Sp. p. 5765; Gaz. vol. 174; p. 983.
Napper, Sidney S., Coventry, assignor to Samuel Courtauld & Company Limited, London, England. Manufacture of threads, filaments, strips, or films of cellulose. No. 1,045,731; Nov. 26; Gaz. vol. 184; p. 1028.
Narragansett Machine Company. (See Thornley, Albert J., assignor.)
Narrow Fabric Corporation, The. (See Moore and Sutcliffe, assignors.)
Natunsky, Solomon, Baltimore, Md. Square-rule. No. 1,038,184; Sept. 10; Gaz. vol. 182; p. 370.
Nash, Alfred S., Willimansett, Mass. Building-block. No. 1,024,276; Apr. 23; Sp. p. 5404; Gaz. vol. 177; p. 946.
Nash, Charles J., assignor to Universal Draft Gear Attachment Co., Chicago, Ill. Draft-gear. No. 1,036,511; Aug. 20; Gaz. vol. 181; p. 788.
Nash, Chester, Oregon, Ill. Pencil-sharpener. No. 1,043,130; Nov. 5; Gaz. vol. 184; p. 29.
Nash, Dollie. (See Nash, John, assignor.)
Nash, Durant D., Concord, N. C. Fireplace. No. 1,018,677; Feb. 27; Sp. p. 5448; Gaz. vol. 175; p. 945.
Nash Engineering Company. (See Nash, Lewis H., assignor.)
Nash, Fredrick W., Minneapolis, Minn. Hat. No. 1,016,892; Feb. 6; Sp. p. 1447; Gaz. vol. 175; p. 225.
Nash, Humphrey L., Cleveland, Ohio. Animal-jaw puller. No. 1,048,335; Dec. 24; Gaz. vol. 185; p. 975.
Nash, John. (See Wendte and Nash.)
Nash, John, assignor of one-half to D. Nash, North Yakima, Wash. Centripetal engine. No. 1,043,962; Nov. 12; Gaz. vol. 184; p. 354.
Nash, John A., *et al.* (See Ping, Robert G., assignor.)
Nash, Lewis H., South Norwalk, Conn. Water-meter. No. 1,024,741; Apr. 30; Sp. p. 6462; Gaz. vol. 177; p. 1139.
Nash, Lewis H., South Norwalk, Conn. Water-meter. No. 1,033,610; July 23; Gaz. vol. 180; p. 1066.
Nash, Lewis H., South Norwalk, Conn., assignor to Nash Engineering Company. Liquid-pump. No. 1,028,949; June 11; Sp. p. 1916; Gaz. vol. 179; p. 331.
Nash, Lewis H., South Norwalk, Conn., assignor to Nash Engineering Company, New York, N. Y. Turbo-displacement engine. No. 1,045,732; Nov. 26; Gaz. vol. 184; p. 1028.
Nash, Nathan E., Toronto, Ontario, Canada. Boiler-feeding apparatus. No. 1,031,955; July 9; Gaz. vol. 180; p. 426.
Nash, Walter D., Atlanta, assignor to Atlanta Utility Works, East Point, Ga. Eccentric. No. 1,014,896; Jan. 16; Sp. p. 4030; Gaz. vol. 174; p. 682.
Nash, Walter D., assignor to Atlanta Utility Works, Atlanta, Ga. Scale. No. 1,024,352; Apr. 23; Sp. p. 5530; Gaz. vol. 177; p. 969.
Nash, Walter D., Atlanta, assignor to Atlanta Utility Works, East Point, Ga. Universal separator. No. 1,045,592; Nov. 26; Gaz. vol. 184; p. 978.
Nashua Card Gummed & Coated Paper Company. (See Arnold, Frank K., assignor.)
Nasmith, John W., Manchester, England. Box-covering machine. No. 1,046,484; Dec. 10; Gaz. vol. 185; p. 277.
Nason, George J. (See Carlson and Nason.)
Nässén, John F., Solhem, and F. J. H. Rustige, assignors to Aktiebolaget Lux, Stockholm, Sweden. Apparatus for lighting and extinguishing gas-lights from a distance. No. 1,047,552; Dec. 17; Gaz. vol. 185; p. 681.
Nathan, Edwin B., New York, N.Y. Tire-casing. No. 1,042,026; Oct. 22; Gaz. vol. 183; p. 897.
Nathan Manufacturing Company. (See Kassander and Best, assignors.)
Nathan Manufacturing Company. (See Panhorst, Paul, assignor.)
Nathorst, Harry J. H., and G. Lundström, Gellivare Malmfält, Sweden. Machine for forming and sharpening drill-bits and the like. No. 1,023,476; Apr. 16; Sp. p. 3668; Gaz. vol. 177; p. 650.
National Acme Manufacturing Co., The. (See Henn, Edwin C., assignor.)
National-Acme Manufacturing Company, The. (See Glosh, Frederick P., assignor.)
National Acme Manufacturing Company, The. (See Hunter, Hugh M., assignor.)
National-Acme Manufacturing Company, The. (See Rindfleisch, Benjamin, assignor.)
National Acme Manufacturing Company, The. (See Smith, Oscar A., assignor.)
National Adjustable Window Corporation. (See House, Thomas M., assignor.)
National Aerial Navigation & Equipment Co. (See Schaufler, Fred L., assignor.)
National Automatic Typewriter Company, The. (See McCall, Thomas A., assignor.)
National Automatic Vehicle Fender Company. (See Stannard and Aginskee, assignors.)
National Blank Book Company. (See Elder, Edward H., assignor.)
National Blank Book Company. (See Merwin and Donovan, assignors.)
National Brake & Electric Co. (See Aikman, Burton S., assignor.)
National Brass Mfg. Co. (See Wray, Charles F., assignor.)
National Cable & Mfg. Co. (See Mitchell, Melvin G., assignor.)
National Calculator Company. (See Smith and Kleeberg, assignors.)
National Carbon Co. (See White, Frederick L., assignor.)
National Carbon Company. (See Brown, John W., assignor.)
National Carbon Company. (See Humel, Frank J., assignor.)
National Carbon Company. (See Mott, William R., assignor.)
National Carbon Company. (See Ordway and Brown, assignors.)
National Carbon Company. (See Smith and Marshall, assignors.)
National Carbonated Liquid Co. (See Kennedy, Guy L., assignor.)
National Carbonated Liquid Co. (See Shattuck, Arthur E., assignor.)
National Cash Register Company, The. (See Braun, Richard, assignor.)
National Cash Register Company, The. (See Brewer, Tily, and Rehfuss, assignors.)
National Cash Register Company, The. (See Carney, Thomas, assignor.)
National Cash Register Company, The. (See Carroll, Thomas, assignor.)
National Cash Register Company, The. (See Carson, Clarence, assignor.)
National Cash Register Company, The. (See Church, Edmund S., assignor.)
National Cash Register Company, The. (See Cleal, Joseph P., assignor.)
National Cash Register Company, The. (See Fabry, Fraur C., assignor.)
National Cash Register Company, The. (See Fassett, Francis K., assignor.)
National Cash Register Company, The. (See Fuller, Frederick L., assignor.)
National Cash Register Company, The. (See Grohmann and Koehne, assignors.)
National Cash Register Company, The. (See Jacob, Max, assignor.)
National Cash Register Company, The. (See Kettering and Chryst, assignors.)
National Cash Register Company, The. (See Martin, Haakon A., assignor.)
National Cash Register Company, The. (See McCarthy, William M., assignor.)
National Cash Register Company, The. (See Muzzy, William H., assignor.)
National Cash Register Company, The. (See Osborn, Francis C., assignor.)
National Cash Register Company, The. (See Palmer, Charles, assignor.)
National Cash Register Company, The. (See Parker, John F., assignor.)

Alphabetical list of patentees—Continued.

National Cash Register Company, The. (See Pein, Edward J. von, assignor.)
National Cash Register Company, The. (See Schweiger, William F., assignor.)
National Cash Register Company, The. (See Stroud, Thomas L., assignor.)
National Cash Register Company, The. (See Sugden and Pidgin, assignors.)
National Checking Company. (See Costello, James, assignor.)
National Chemical Company. (See Quinn, Wilbur W., assignor.)
National Cigar Company. (See Van Buren, George L., assignor.)
National Clock & Electric Manufacturing Co. (See Wurmt and Baumann, assignors.)
National Coning Machinery Company. (See Marsh and Dill, assignors.)
National Dump Car Company. (See Otis, Spencer, assignor.)
National Dump Car Company. (See Posson, Edward, assignor.)
National Dump Car Company. (See Seaberg, Frederick, assignor.)
National Dump Car Company. (See Yost, Winfield H., assignor.)
National Dump Car Company. (See Zimmerman, Robert M., assignor.)
National Electric Lamp Company. (See Fagan, John T., assignor.)
National Electric Signaling Company. (See Fessenden, Reginald A., assignor.)
National Electric Signaling Company. (See Hogan, John L., Jr., assignor.)
National Electric Specialty Company, The. (See Chapman, Frank S., assignor.)
National Electric Specialty Company, The. (See Chapman and Greene, assignors.)
National Electric Welder Company, The. (See Taylor, Albertis C., assignor.)
National Electrical Manufacturing Co., The. (See Rizer. Arthur D., assignor.)
National Enameling & Stamping Company. (See Haller, John P., assignor.)
National Enameling and Stamping Company. (See Schwartzburg, Edward H., assignor.)
National Equipment Company. (See Bausman, Alonzo L., assignor.)
National Equipment Company, The. (See Bausman and Cottreal, assignors.)
National Exchange Bank of Baltimore, The. (See Craggs, Ross V., assignor.)
National Fibre Box Company. (See Walter, Harrison B., assignor.)
National Fibre Products Company. (See Granville, Bernard, assignor.)
National Fire Proof Sash and Door Company. (See Swartz, Max, assignor.)
National Fresh Air Furniture Company. (See Gregory, Eugene, assignor.)
National Iron Company. (See Swensson, Eric, assignor.)
National Laundry Machinery Company, The. (See McDorman, Paul, assignor.)
National Lead Company. (See Worrall, George H., assignor.)
National Lumber Vulcanizing Corporation. (See Howard, Charles, assignor.)
National Machinery Company, The. (See Clouse, Walter N., assignor.)
National Machinery Company. (See Clouse, William L., assignor.)
National Malleable Castings Company, The. (See Blackmore, William, assignor.)
National Malleable Castings Company, The. (See Buckius, Albert O., Jr., assignor.)
National Malleable Castings Company, The. (See Byers, Jacob J., assignor.)
National Malleable Castings Company, The. (See Coffin, Walter E., assignor.)
National Malleable Castings Company, The. (See Hermanson, Gustaf A., assignor.)
National Malleable Castings Company, The. (See Krakau, Harry T., assignor.)
National Malleable Castings Company, The. (See Martin, George V., assignor.)
National Malleable Castings Company, The. (See Moore, William G., assignor.)
National Malleable Castings Company, The. (See Pope, Henry F., assignor.)
National Malleable Castings Company, The. (See Schmidt, Ernest H., assignor.)
National Malleable Castings Company, The. (See Schroeder, William S., assignor.)
National Malleable Castings Company, The. (See Stephenson, John W., assignor.)
National Malleable Castings Company, The. (See Stephenson, John W. and D. C., assignors.)
National Manufacturing Company. (See Bittorf, Louis A., assignor.)
National Metal Edge Box Company. (See Lewis, Robert B., assignor.)
National Metal Molding Company. (See Gilson, Henry R., assignor.)
National Metal Seal Corporation. (See Chellis, Eugene D., assignor.)
National Onion Salt Company, The. (See Fleck, Herman, assignor.)
National Onion Salt Company, The. (See Houston, Edward D.) (Reissue.)
National Pipe Bending Company. (See Hickey, John, assignor.)
National Pneumatic Company. (See Brinckerhoff, Francis M., assignor.)
National Pneumatic Company. (See Rowntree, Harold, assignor.)
National Printing Machine Company, The. (See Twining, William A., assignor.)
National Recorder Company. (See Kay, William W., assignor.) (Reissue.)
National Recording Lock Company. (See Cole, Joseph F., assignor.)
National Regulator Company. (See Larson, John M., assignor.)
National Scale Company. (See Ohnsman, John H., assignor.)
National Seed Tester Company. (See Twamley, Clark E., assignor.)
National Self-Registering Bank Co., The. (See Matson, Edward E., assignor.)
National Spring and Wire Company. (See Raftery, Solomon M., assignor.)
National Steel Barrel Company. (See George, James H., assignor.) (Reissue.)
National Street and Station Indicator Company. (See Kellum, Orlando E., assignor.)
National Surface Guard Company, The. (See Luthman, Charles H., assignor.)
National Sweeper Company. (See Davis, Stephen A., assignor.)
National Tag Company. (See Kuhns, John P., assignor.)
National Tool Company. (See Walters, Francis S., assignor.)
National Trenching Machine Company. (See Craig, Lee D., assignor.)
National Tube Company. (See Baehr, George, assignor.)
National Tube Company. (See Fell, Charles, assignor.)
National Tube Company. (See Kennedy, William W., assignor.)
National Tube Company. (See Saunders, Augustus M., assignor.)
National Tube Company. (See Saunders and Mowat, assignors.)
National Tube Company. (See Saunders and Speller, assignors.)
National Tube Company. (See Simpson, James, assignor.)
National Water Main Cleaning Company. (See Hiller, John A., assignor.)
National Water Main Cleaning Company, The. (See Hodgman, Burt B., assignor.)
National Water Main Cleaning Company. (See Mueller, Oscar B., assignor.)
National Waterproof Film Company. (See Beadell, Benjamin W., assignor.)
National Wireless Telephone & Telegraph Co. (See Jahnke, Albert A., assignor.)
Natt, Charles A., assignor of one-half to N. E. MacEwan, Rochester, N. Y. Bottle-stopper. No. 1,039,176; Sept. 24; Gaz. vol. 182; p. 760.
Nattenheimer, Julius, assignor of one-half to E. Eiger & Bros., Chicago, Ill. Hat-frame-forming device. No. 1,046,006; Dec. 3; Gaz. vol. 185; p. 71.
Nature's Rival Company. (See Mayer and Yaffe, assignors.)
Natzman, John J., Detroit, Mich. Compound for use in soldering aluminum and forming same. No. 1,032,494; July 16; Gaz. vol. 180; p. 652.
Natzmer, William G., McKeesport, Pa. Wrench. No. 1,034,138; July 30; Gaz. vol. 180; p. 1273.
Nau, John B., New York, N. Y. Gas-producer. No. 1,033,611; July 23; Gaz. vol. 180; p. 1067.
Naughton, William G., Philadelphia, Pa. Fender. No. 1,028,056; May 28; Sp. p. 6504; Gaz. vol. 178; p. 1113.
Naujoks, Rudolf, assignor to Firm of Dr. Ing. Schneider & Naujoks Elektrizitats-Gesellschaft mit beschrankter Haftung, Frankfort-on-the-Main, Germany. Stage-lighting device. No. 1,045,063; Nov. 19; Gaz. vol. 184; p. 764.
Naumann, Alfred, New York, N. Y. Touring-skate. No. 1,017,162; Feb. 13; Sp. p. 2073; Gaz. vol. 175; p. 356.
Naumann, Herman, Manitowoc, Wis. Rotary cheese-rack. No. 1,028,593; June 4; Sp. p. 1156; Gaz. vol. 179; p. 176.
Naumann, Wilhelm, Pankow, Germany, assignor to General Electric Company. Motor control. No. 1,031,573; July 2; Gaz. vol. 180; p. 252.
Naumann, Wilhelm, Pankow, Germany, assignor to General Electric Company. Motor control. No. 1,036,688; Aug. 27; Gaz. vol. 181; p. 879.
Nauts, Frank A., assignor to Gendron Wheel Company, Toledo, Ohio. Perambulator. No. 1,024,144; Apr. 23; Sp. p. 5115; Gaz. vol. 177; p. 899.

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Nay, Frederick L., Vacaville, Cal. Automatic change-making machine. No. 1,017,447; Feb. 13; Sp. p. 2702; Gaz. vol. 175; p. 456.
Naylor, Amos, Rochester, N. Y. Protecting-cover for shoe-uppers. No. 1,046,007; Dec. 3; Gaz. vol. 185; p. 71.
Naylor, Augustine F., assignor to Perfection Biscuit Company, Fort Wayne, Ind. Barrel-cover. No. 1,028,057; May 28; Sp. p. 6505; Gaz. vol. 178; p. 1113.
Naylor, Carl G., Chicago, Ill., assignor to American Sheet Metal Elbow Company, Wilmington, Del. Pipe-elbow-forming machine. No. 1,032,152; July 9; Gaz. vol. 180; p. 490.
Naylor, Erasmus H., London, England. Process to regenerate and improve the structure of lead electrodes of secondary batteries. No. 1,026,527; May 14; Sp. p. 3161; Gaz. vol. 178; p. 522.
Naylor, George, Salt Lake City, Utah. Railway-tie. No. 1,036,512; Aug. 20; Gaz. vol. 181; p. 788.
Naylor, Howard H. (See Steffy and Naylor.)
Naylor, James A., Gleichen, Alberta, Canada. Railway-tie. No. 1,048,725; Dec. 31; Gaz. vol. 185; p. 1148.
Naylor, Leslie W. (See McKlveen and Naylor.)
Naylor, Mansel E., Cincinnati, Ohio. Hand splitting-machine. No. 1,020,364; Mar. 12; Sp. p. 2860; Gaz. vol. 176; p. 484.
Naylor, Paul B., Kansas City, Mo. Silo. No. 1,019,180; Mar. 5; Sp. p. 389; Gaz. vol. 176; p. 62.
Nazel, John, Philadelphia, Pa. Forming-machine. No. 1,019,073; Mar. 5; Sp. p. 143; Gaz. vol. 176; p. 24.
Nazel, John, Philadelphia, Pa., assignor to Sanitary Paper Bottle Company, Wilmington, Del. Machine for making tubular receptacles. No. 1,037,040; Aug. 27; Gaz. vol. 181; p. 997.
Neahr, Jacob E., New York, N. Y. Match-receptacle. No. 1,040,236; Oct. 1; Gaz. vol. 183; p. 188.
Neal, Daniel E. (See Engle, Freeman, and Neal.)
Neal, Henry A., Richmond, England. Carbureter for internal-combustion engines. No. 1,018,262; Feb. 20; Sp. p. 4495; Gaz. vol. 175; p. 772.
Neal, John W., Kealia, Hawaii. Wave-motor. No. 1,026,450; May 14; Sp. p. 3010; Gaz. vol. 178; p. 496.
Neal Naval Stores Company. (See Dunwody, Robson, assignor.)
Neal Naval Stores Company, The. (See Neal, Stephens, assignor.)
Neal, Stephens, assignor to The Neal Naval Stores Company, Cordele, Ga. Distillation. No. 1,036,306; Aug. 20; Gaz. vol. 181; p. 716.
Neal, William J., Bloomington, Ind. Bolt-holder. No. 1,031,574; July 2; Gaz. vol. 180; p. 252.
Neale, Frank, Hood River, Oreg. Cable suspension transportation system. No. 1,041,506; Oct. 15; Gaz. vol. 183; p. 684.
Neall, Harry L., Medford, Oreg. Classifier. No. 1,047,106; Dec. 10; Gaz. vol. 185; p. 490.
Nealy, George, assignor of one-half to F. C. Wallower, Webb City, Mo. Belt-tightening means. No. 1,047,830; Dec. 17; Gaz. vol. 185; p. 778.
Neames, Maurice M., Vacherie, La. Leak-stop for levees, dikes, &c. No. 1,039,579; Sept. 24; Gaz. vol. 182; p. 904.
Near-Side Car Company, The. (See Senter and Kling, assignors.)
Nearman, Charles A., Oakland, Cal. Water-heater for shaving outfits. No. 1,030,526; June 25; Sp. p. 5430; Gaz. vol. 179; p. 954.
Nearpass, W. E. (See Fuller, John W., assignor.)
Neats, Clarence P. (See Neats, Harry S. and C. P.)
Neats, Harry S. and C. P., East Orange, N. J. Lifting-jack. No. 1,047,107; Dec. 10; Gaz. vol. 185; p. 491.
Neave, Andrew A., assignor to Mesta Machine Company, Pittsburgh, Pa. Shear-table. No. 1,045,873; Dec. 3; Gaz. vol. 185; p. 27.
Nebbia, Pietro, Milan, Italy. Machine for planking felt hat-bodies. No. 1,025,711; May 7; Sp. p. 1332; Gaz. vol. 178; p. 207.
Nebel, Karl, assignor to L. Hirsch, New York, N. Y. Straight-knitting machine. No. 1,033,723; July 23; Gaz. vol. 180; p. 1102.
Nebel, Karl, assignor to L. Hirsch, New York, N. Y. Knitting a full-fashioned blank for a stocking. No. 1,048,572; Dec. 31; Gaz. vol. 185; p. 1094.
Neble, John L., and A. Hansen, Omaha, Nebr. Pallet-truck. No. 1,021,880; Apr. 2; Sp. p. 279; Gaz. vol. 177; p. 45.
Neckerman, Roy. (See Foell, Kusebauch, and Neckerman.)
Neckerman, William M., Youngstown, Ohio. Pipe-threading machine. No. 1,013,212; Jan. 2; Sp. p. 255; Gaz. vol. 174; p. 42.
Neddo, Richard, Norfolk, Va. Stationery-distributing cabinet. No. 1,044,804; Nov. 19; Gaz. vol. 184; p. 675.
Nederland, Johan, New York, N. Y. Holder for toilet-paper rolls. No. 1,023,587; Apr. 16; Sp. p. 3899; Gaz. vol. 177; p. 686.
Nedvidek, Otaker, Milwaukee, Oreg. Yarn condenser and polisher for cordage-spinning machines. No. 1,045,064; Nov. 19; Gaz. vol. 184; p. 764.
Needham, Arthur J. and W. C., London, England. Fountain and centrifugal pump for use therewith. No. 1,020,569; Mar. 19; Sp. p. 3316; Gaz. vol. 176; p. 592.
Needham, Christopher C., Ivor, Va. Peanut-harvester. No. 1,047,108; Dec. 10; Gaz. vol. 185; p. 491.
Needham, Stephen D., Rantoul, Kans. Transport-truck for disk harrows. No. 1,019,345; Mar. 5; Sp. p. 768; Gaz. vol. 176; p. 118.
Needham, Walter C. (See Needham, Arthur J. and W. C.)
Neel, Harry C., Dravosburg, and J. B. Hatfeld, Alexandria, Pa. Sad-iron. No. 1,019,181; Mar. 5; Sp. p. 390; Gaz. vol. 176; p. 62.
Neeley, John T., Chesterton, Ind. Post-mold. No. 1,018,072; Feb. 20; Sp. p. 4103; Gaz. vol. 175; p. 706.
Neelmeier, Wilhelm. (See Jordan and Neelmeier.)
Neely Nut and Bolt Company. (See Lackner, Frederick, assignor.)
Neely, William A., assignor to Boston Machine Works Company, Lynn, Mass. Cementing-machine. No. 1,027,144; May 21; Sp. p. 4584; Gaz. vol. 178; p. 770.
Neeper, Alexander M. (See Forsyth, William D., assignor.)
Neer, Frederick A. (See Neer, Ira E., assignor.)
Neer, Ira E., Edinburg, assignor of one-half to F. A. Neer, Custer, Ill. Cotton-picker. No. 1,020,838; Mar. 19; Sp. p. 3904; Gaz. vol. 176; p. 682.
Neesham, William T., Somerset, Colo. Dinner-bucket. No. 1,015,455; Jan. 23; Sp. p. 5219; Gaz. vol. 174; p. 897.
Neff, Douglas M., East Cleveland, Ohio. Folding chair. No. 1,017,791; Feb. 20; Sp. p. 3453; Gaz. vol. 175; p. 607.
Neff, Frank R., assignor to C. A. Daniel, Philadelphia, Pa. Hose. No. 1,026,598; May 14; Sp. p. 3292; Gaz. vol. 178; p. 544.
Neff, John P., assignor to American Arch Company, New York, N. Y. Arch-brick. No. 1,046,008; Dec. 3; Gaz. vol. 185; p. 71.
Neff, Mattie E., *et al.* (See Langlois, Jean, assignor.)
Neff, Valentin, Glatz, Germany. Apparatus for lighting fires. No. 1,014,665; Jan. 16; Sp. p. 3513; Gaz. vol. 174; p. 602.
Neher, George K. (See Ohlrau and Neher.)
Neher, Noah N., Los Angeles, Cal. Vending-machine. No. 1,027,059; May 21; Sp. p. 4374; Gaz. vol. 178; p. 742.
Nehr, Herman F., Rutherford, N. J. Candelabrum. No. 1,014,410; Jan. 9; Sp. p. 2939; Gaz. vol. 174; p. 487.
Nehr, Herman F., Rutherford, N. J., assignor to Strauss Brothers & Company, New York, N. Y. Apparel-buckle. No. 1,032,420; July 16; Gaz. vol. 180; p. 628.
Nehrbas, Frederick P., C. Pleuthner, and G. S. Salzman, assignors to E. R. Thomas Motor Company, Buffalo, N. Y. Controlling device for motor-vehicles. No. 1,036,307; Aug. 20; Gaz. vol. 181; p. 716.
Nehring Insulated Wire and Manufacturing Company. (See Nehring, Paul A., assignor.)
Nehring, Paul A., Sycamore, Ill., assignor to Nehring Insulated Wire and Manufacturing Company. Insulated-wire-saturating machine. No. 1,028,827; June 4; Sp. p. 1630; Gaz. vol. 179; p. 254.
Neidlinger, George H., East Orange, N. J., assignor to Peerless Tube Co., New York, N. Y. Multiple-color tube-printing machine. No. 1,033,824; July 30; Gaz. vol. 180; p. 1163.
Neighbour, Arthur G. L., Beaumaris, Victoria, Australia. Sheep-shearing machine. No. 1,046,323; Dec. 3; Gaz. vol. 185; p. 183.
Neighbour, William W., Denison, Tex., assignor to Suspension Ball Bearing Manufacturing Company, New York, N. Y. Trolley wheel and harp. No. 1,025,479; May 7; Sp. p. 831; Gaz. vol. 178; p. 130.
Neikirk, John O., Morgan Park, Ill., assignor to Rodger Ballast Car Company. Dump-car. No. 1,026,694; May 21; Sp. p. 3527; Gaz. vol. 178; p. 615.
Neil, George E., Cleveland Ohio. Lamp. No. 1,013,947; Jan. 9; Sp. p. 1919; Gaz. vol. 174; p. 326.
Neil, James, Jr., New York, N. Y. Guard for dental instruments. No. 1,021,065; Mar. 26; Sp. p. 4372; Gaz. vol. 176; p. 811.
Neil, James A., assignor of one-half to J. E. Gale and one-eighth to J. A. Donaldson, Washington, D. C. Horseshoe. No. 1,017,228; Feb. 13; Sp. p. 2233; Gaz. vol. 175; p. 380.
Neil, James M., Toronto, Ontario, Canada. Process of and apparatus for atomizing metals, &c. No. 1,036,689; Aug. 27; Gaz. vol. 181; p. 880.
Neil, James M., Toronto, Ontario, Canada. Filtration. No. 1,043,455; Nov. 5; Gaz. vol. 184; p. 147.
Neil, James M., Toronto, Ontario, Canada. Filtering apparatus. No. 1,045,095; Nov. 19; Gaz. vol. 184; p. 775.
Neil, James M., Toronto, Ontario, Canada. Treating the residual caustic liquor resulting from digestion of wood. No. 1,047,132; Dec. 10; Gaz. vol. 185; p. 501.
Neil, James M., New York, N. Y. Treating fluids, such as water and sewage. No. 1,045,096; Nov. 19; Gaz. vol. 184; p. 775.
Neil, James M., New York, N. Y. Apparatus for atomizing metals. No. 1,049,314; Dec. 31; Gaz. vol. 185; p. 1351.

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Neil, James M., assignor to A. M. Hay, Toronto, Ontario, Canada. Precipitation of precious metals from cyanid solutions. No. 1,018,438; Feb. 27; Sp. p. 4879; Gaz. vol. 175; p. 864.
Neil, James M., assignor to A. M. Hay, Toronto, Ontario, Canada. Manufacture of glues, &c. No. 1,023,523; Apr. 16; Sp. p. 3763; Gaz. vol. 177; p. 665.
Neil, James M., assignor to A. M. Hay, Toronto, Ontario, Canada. Precipitation of precious metals from cyanid solutions. No. 1,023,524; Apr. 16; Sp. p. 3763; Gaz. vol. 177; p. 665.
Neil, James M., assignor to A. M. Hay, Toronto, Ontario, Canada. Construction material. No. 1,023,673; Apr. 16; Sp. p. 4060; Gaz. vol. 177; p. 712.
Neil, James M., assignor to A. M. Hay, Toronto, Ontario, Canada. Binding or cementing material. No. 1,023,674; Apr. 16; Sp. p. 4061; Gaz. vol. 177; p. 712.
Neil, James M., assignor to A. M. Hay, Toronto, Ontario, Canada. Binder or cementing material. No. 1,030,114; June 18; Sp. p. 4454; Gaz. vol. 179; p. 769.
Neil, James M., assignor to A. M. Hay, Toronto, Ontario, Canada. Obtaining potash from feldspar. No. 1,034,281; July 30; Gaz. vol. 180; p. 1324.
Neilsen, Carper W. (See Bender, John B., assignor.)
Neis, Peter, Calvary, Wis. Aerial carrier. No. 1,030,423; June 25; Sp. p. 5154; Gaz. vol. 179; p. 917.
Neiswander, Thornton R., Holmesville, Ohio. Mail-carrying device. No. 1,034,282; July 30; Gaz. vol. 180; p. 1324.
Nelke, Herbert L., Philadelphia, Pa. Form for shaping and finishing garments. No. 1,026,451; May 14; Sp. p. 3012; Gaz. vol. 178; p. 497.
Nellen, Friedrich, Essen-on-the-Ruhr, Germany. Device for propping mines. No. 1,049,135; Dec. 31; Gaz. vol. 185; p. 1290.
Neller, Albert H., assignor to Louden Machinery Company, Fairfield, Iowa. Suspended tracks. No. 1,020,046; Mar. 12; Sp. p. 2211; Gaz. vol. 176; p. 381.
Neller, Albert H., and R. B. Louden, Fairfield, Iowa. Door-hanger. No. 1,028,900; June 11; Sp. p. 1811; Gaz. vol. 179; p. 315.
Nellis, Charles E. (See Ellis and Nellis.)
Nelsen, Christ, Big Rock, Ill. Scaffold device. No. 1,048,726; Dec. 31; Gaz. vol. 185; p. 1148.
Nelson, Adolphus P., Grantsburg, Wis. Overhead carrier. No. 1,020,047; Mar. 12; Sp. p. 2215; Gaz. vol. 176; p. 381.
Nelson, Albert H., assignor, by mesne assignments, of one-third to J. R. Learned, Newton, one-third to C. J. Larkin, Everett, and one-third to L. C. Nelson, Faneuil, Mass. Lighter. No. 1,026,695; May 21; Sp. p. 3530; Gaz. vol. 178; p. 615.
Nelson, Alexander. (See Ellenburg and Nelson.)
Nelson, Allan C., Flushing, N. Y. Chance device. No. 1,019,910; Mar. 12; Sp. p. 1939; Gaz. vol. 176; p. 336.
Nelson, Alva A., Needles, Cal. Car-raising device. No. 1,020,217; Mar. 12; Sp. p. 2588; Gaz. vol. 176; p. 439.
Nelson, Andrew, Sedalia, Mo. Shears. No. 1,019,689; Mar. 5; Sp. p. 1486; Gaz. vol. 176; p. 230.
Nelson, Arthur, Smithville, Minn. Fountain-stopper for mucilage-bottles. No. 1,021,622; Mar. 26; Sp. p. 5561; Gaz. vol. 176; p. 999.
Nelson, Arthur W., Chicago, Ill. Pulley. No. 1,034,491; Aug. 6; Gaz. vol. 181; p. 30.
Nelson, August, Westcliffe, Colo. Spring-swingletree. No. 1,039,784; Oct. 1; Gaz. vol. 183; p. 39.
Nelson, August T., assignor to Automatic Steering Company, Milwaukee, Wis. Automatic steering device. No. 1,015,061; Jan. 16; Sp. p. 4392; Gaz. vol. 174; p. 737.
Nelson, Axel A., Washington, D. C. Tire-tool. No. 1,041,660; Oct. 15; Gaz. vol. 183; p. 735.
Nelson, Bror A., assignor of one-half to W. T. Goodman, Dixon, Mo. Switch-box. No. 1,025,585; May 7; Sp. p. 1077; Gaz. vol. 178; p. 166.
Nelson, Burt G., Milwaukee, Wis. Speed-controlling device. No. 1,047,276; Dec. 17; Gaz. vol. 185; p. 583.
Nelson, Carl, Rockford, Ill. Mortising-machine. No. 1,044,904; Nov. 19; Gaz. vol. 184; p. 708.
Nelson, Charles, New York, assignor to S. Sternau & Company, Brooklyn, N. Y. Culinary article. No. 1,022,438; Apr. 9; Sp. p. 1452; Gaz. vol. 177; p. 260.
Nelson, Charles, assignor to S. Sternau & Co., New York, N. Y. Traveler's companion. No. 1,028,901; June 11; Sp. p. 1813; Gaz. vol. 179; p. 315.
Nelson, Charles, New York, assignor to S. Sternau & Company, Brooklyn, N. Y. Coffee-machine. No. 1,041,850; Oct. 22; Gaz. vol. 183; p. 838.
Nelson, Charles, New York, N. Y., and H. J. Axt, Newark, N. J., assignors to S. Sternau & Co., Brooklyn, N. Y. Coffee-machine. No. 1,026,405; May 14; Sp. p. 2912; Gaz. vol. 178; p. 482.
Nelson, David J., Mediapolis, Iowa. Gate-closer. No. 1,022,967; Apr. 9; Sp. p. 2599; Gaz. vol. 177; p. 441.
Nelson, De Witt, Minneapolis, Minn. Emergency-tire. No. 1,029,553; June 11; Sp. p. 3217; Gaz. vol. 179; p. 539.
Nelson, Delphos C. (See Nelson, James W., assignor.)
Nelson, Dorothy, Seattle, Wash. Hat-weight. No. 1,041,330; Oct. 15; Gaz. vol. 183; p. 627.
Nelson, Edmund B., Cadiz, Ohio. Radiator-cap for automobiles. No. 1,020,437; Mar. 19; Sp. p. 3033; Gaz. vol. 176; p. 549.
Nelson, Edwin J., and H. Watkins, assignors to Utica Lawn Trimmer Company, Utica, N. Y. Table. No. 1,046,631; Dec. 10; Gaz. vol. 185; p. 329.
Nelson, Elwyn F., assignor to The Davies Threshing Machine Company, Oshkosh, Wis. Manure-scatterer. No. 1,035,724; Aug. 13; Gaz. vol. 181; p. 477.
Nelson, Emil A., assignor to Rotary Valve Motor Company, Detroit, Mich. Valve. No. 1,040,738; Oct. 8; Gaz. vol. 183; p. 395.
Nelson, Francis M., Westville, Okla. Wave-motor. No. 1,018,678; Feb. 27; Sp. p. 5450; Gaz. vol. 175; p. 945.
Nelson, Frank E., Jamestown, N. Y. Lawn-trimmer. No. 1,018,073; Feb. 20; Sp. p. 4106; Gaz. vol. 175; p. 707.
Nelson, Fred O., Estherville, Iowa. Target-clamp. No. 1,017,229; Feb. 13; Sp. p. 2234; Gaz. vol. 175; p. 380.
Nelson, George B., Redfield, Iowa. Hood for pneumatic stackers. No. 1,016,431; Feb. 6; Sp. p. 428; Gaz. vol. 175; p. 68.
Nelson, Gustav, New York, N. Y. Terminal plate for telephone desk-stands. No. 1,016,847; Feb. 6; Sp. p. 1355; Gaz. vol. 175; p. 209.
Nelson, Gustavus A. (See Elm, Elmer J., assignor.)
Nelson, Hans Z., assignor to American Gas Machine Company, Albert Lea, Minn. Vaporizing and superheating incandescent lamp. No. 1,040,388; Oct. 8; Gaz. vol. 183; p. 271.
Nelson, Harvey E., Petaluma, Cal. Automatic feeding device for linotype-machines. No. 1,016,356; Feb. 6; Sp. p. 265; Gaz. vol. 175; p. 41.
Nelson, Herman, Gothenburg, Nebr. Strainer for milk-cans. No. 1,041,331; Oct. 15; Gaz. vol. 183; p. 627.
Nelson, Hjalmar A. (See Henning and Nelson.)
Nelson, Irving C., Winnipeg, Manitoba, Canada. Gang and sulky riding-plow. No. 1,025,712; May 7; Sp. p. 1333; Gaz. vol. 178; p. 208.
Nelson, J. E., *et al.* (See Shields, Alfred, assignor.)
Nelson, James D., and E. F. Smith, Cincinnati, Ohio; said Smith assignor to said Nelson. Alarm apparatus. No. 1,022,497; Apr. 9; Sp. p. 1563; Gaz. vol. 177; p. 280.
Nelson, James W., assignor of one-half to D. C. Nelson, Marion, Ohio. Automatic cut-off for talking-machines. No. 1,021,109; Mar. 26; Sp. p. 4452; Gaz. vol. 176; p. 824.
Nelson, Jesse A., Ellsworth, Iowa. Cleaner attachment for grain-elevators. No. 1,048,091; Dec. 24; Gaz. vol. 185; p. 894.
Nelson, John A., Davenport, Iowa. Automatic gas-lighter. No. 1,024,277; Apr. 23; Sp. p. 5405; Gaz. vol. 177; p. 946.
Nelson, John B., Bivins, Tex. Shingle-machine. No. 1,036,308; Aug. 20; Gaz. vol. 181; p. 717.
Nelson, John M., assignor to Davenport Ice Chipping Machine Company, Davenport, Iowa. Ice-crusher. No. 1,013,509; Jan. 2; Sp. p. 914; Gaz. vol. 174; p. 146.
Nelson, Leliand C., *et al.* (See Nelson, Albert H., assignor.)
Nelson, Lewis P., Kenosha, Wis. Fastening device for storm-windows or the like. No. 1,030,115; June 18; Sp. p. 4455; Gaz. vol. 179; p. 769.
Nelson, Lewis W., Philadelphia, Pa. Dynamo-electric machine. No. 1,027,273; May 21; Sp. p. 4831; Gaz. vol. 178; p. 814.
Nelson, Lewis W., Philadelphia, Pa. Dynamo-electric machine. No. 1,038,494; Sept. 10; Gaz. vol. 182; p. 477.
Nelson, Louis M., Pennington, N. J. Parachute. No. 1,019,271; Mar. 5; Sp. p. 579; Gaz. vol. 176; p. 93.
Nelson, Magnus, New York, N. Y. Flooring-square. No. 1,035,033; Aug. 6; Gaz. vol. 181; p. 210.
Nelson, Milford A., Fowler, Colo. Clevis-lock. No. 1,030,527; June 25; Sp. p. 5431; Gaz. vol. 179; p. 954.
Nelson, Milford A., Fowler, Colo. Clevis. (Reissue.) No. 13,470; Oct. 1; Gaz. vol. 183; p. 200.
Nelson, N. C., *et al.* (See Gordon, William F. E., assignor.)
Nelson, Nathaniel, Chicago, Ill. Controlling mechanism for punch-presses and like machinery. No. 1,030,009; June 18; Sp. p. 4221; Gaz. vol. 179; p. 732.
Nelson, Nels, La Fayette, Oreg. Sod-trimmer. No. 1,033,612; July 23; Gaz. vol. 180; p. 1067.
Nelson, Nels I. (See Hanson and Nelson.)
Nelson, Oscar, assignor to J. P. Seeburg Piano Company, Chicago, Ill. Adjusting mechanism for rolls or spools for perforated music-sheets. No. 1,039,066; Sept. 17; Gaz. vol. 182; p. 704.
Nelson, Philip, Watrous, N. Mex. Nut-splitter. No. 1,037,968; Sept. 10; Gaz. vol. 182; p. 300.
Nelson, Robert H., assignor of one-half to C. A. Robbins, Dixon, Ill. Pressure-operated controlling-valve for house water-supply systems. No. 1,022,327; Apr. 2; Sp. p. 1206; Gaz. vol. 177; p. 192.
Nelson, Sven T., assignor to Sullivan Machinery Company, Chicago, Ill. Valve mechanism for hoisting-engines. No. 1,034,024; July 30; Gaz. vol. 180; p. 1235.
Nelson, Sven T., assignor to Sullivan Machinery Company, Chicago, Ill. Valve mechanism for hoisting-engines. No. 1,034,025; July 30; Gaz. vol. 180; p. 1235.

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Nelson, Thomas A., Chicago, Ill. Pressure-gage. No. 1,018,582; Feb. 27; Sp. p. 5263; Gaz. vol. 175; p. 914.
Nelson Valve Company. (See Schmid, John V., assignor.)
Nelson Valve Company. (See Schmid and Mason, assignors.)
Nelson, Victor F., Spokane, Wash. Snap-hook. No. 1,026,452; May 14; Sp. p. 3014; Gaz. vol. 178; p. 497.
Nelson, Weleam, Norwood, Mass. Crate. No. 1,033,724; July 23; Gaz. vol. 180; p. 1102.
Nelson, William H., Ardmore, Pa. Friction-clutch. No. 1,047,109; Dec. 10; Gaz. vol. 185; p. 492.
Nelson, William H. S., Capon Springs, W. Va. Finger-support for stringed instruments. No. 1,017,448; Feb. 13; Sp. p. 2713; Gaz. vol. 175; p. 456.
Nelson, William H. S., Capon Springs, W. Va. Insulator. No. 1,038,418; Sept. 10; Gaz. vol. 182; p. 451.
Nelsson, Oskar, Hampshire, Ill. Cow-tail holder. No. 1,023,588; Apr. 16; Sp. p. 3901; Gaz. vol. 177; p. 687.
Nemes, Mike, Fort Dodge, Iowa. Squeezing and pressing device. No. 1,026,696; May 21; Sp. p. 3532; Gaz. vol. 178; p. 616.
Nemes, Mike, Fort Dodge, Iowa. Insulator. No. 1,032,153; July 9; Gaz. vol. 180; p. 490.
Németh, Stephen. (See Hajdú and Németh.)
Nenno, George A. (See Lavanway and Nenno.)
Neptune Meter Company. (See Burton, James M., assignor.)
Neptune Meter Company. (See Dilts, Henry I., assignor.)
Nernst Lamp Company. (See Foell, Kusebauch, and Neckerman, assignors.)
Nernst Lamp Company. (See Kusebauch, Anton, assignor.)
Nernst Lamp Company. (See Roffy, Joseph T., assignor.)
Nernst Lamp Company, The. (See Thoms, Frank C., assignor.)
Nero, Arvid H., New Britain, assignor to The Arrow Electric Company, Hartford, Conn. Electric switch. No. 1,045,733; Nov. 26; Gaz. vol. 184; p. 1028.
Nesbit, David M. (See Taylor, Atkinson, and Nesbit.)
Nesbit, Watson M., and E. Pike, Eureka, Utah. Smelter-furnace. No. 1,027,882; May 28; Sp. p. 6150; Gaz. vol. 178; p. 1056.
Nesbitt, Herbert S., St. Louis, Mo. Dish-washer. No. 1,048,862; Dec. 31; Gaz. vol. 185; p. 1196.
Nesheim, Martin, Council Bluffs, Iowa. Spacing-tool. No. 1,046,632; Dec. 10; Gaz. vol. 185; p. 330.
Neskovits, Andrew, Brooklyn, N. Y. Globe-holder. No. 1,046,324; Dec. 3; Gaz. vol. 185; p. 183.
Nesom, Thomas, Indianapolis, Ind. Power-transmission attachment for automobiles. No. 1,039,177; Sept. 24; Gaz. vol. 182; p. 760.
Ness, Herbert A., Silverton, Oreg. Attachment for motor-vehicles. No. 1,029,763; June 18; Sp. p. 3679; Gaz. vol. 179; p. 649.
Ness, John M., assignor of forty-nine one-hundredths to W. L. Lord, Philadelphia, Pa. Envelop. No. 1,044,563; Nov. 19; Gaz. vol. 184; p. 589.
Nessel, Fred, Marion, Ind. Support for rugs, curtains, and the like. No. 1,032,021; July 9; Gaz. vol. 180; p. 447.
Nestor, French, Elkins, W. Va. Cooking utensil. No. 1,041,332; Oct. 15; Gaz. vol. 183; p. 627.
Nestor, John R., Seattle, Wash. Trolley-mechanism-controlled switch. No. 1,033,262; July 23; Gaz. vol. 180; p. 952.
Nestor, John R., Seattle, Wash., assignor to Automatic Announcer Co. Contact-switch equipment. No. 1,043,532; Nov. 5; Gaz. vol. 184; p. 174.
Nesvant, Claude H., assignor to Rock Island Plow Company, Rock Island, Ill. Seed-dropping mechanism. No. 1,044,905; Nov. 19; Gaz. vol. 184; p. 709.
Nesztor, Mihaly, Hartford, Wis. Elevator safety device. No. 1,028,594; June 4; Sp. p. 1159; Gaz. vol. 179; p. 176.
Neth, William C., Connellsville, Pa. Metallic tie and rail-fastener. No. 1,017,449; Feb. 13; Sp. p. 2715; Gaz. vol. 175; p. 456.
Nett, Frederick H. (See Rurford and Nett.)
Nettenstrom, David, assignor of one-half to C. H. Eder, Chicago, Ill. Power-transmission mechanism. No. 1,024,742; Apr. 30; Sp. p. 6463; Gaz. vol. 177; p. 1140.
Netter, Raphaël. (See Kuhn and Netter.)
Nettle, John F., Butte, Mont. Propeller. No. 1,022,203; Apr. 2; Sp. p. 957; Gaz. vol. 177; p. 153.
Neu, Edmund H., Pana, Ill. Tire-tester. No. 1,027,497; May 28; Sp. p. 5295; Gaz. vol. 178; p. 927.
Neu, Herbert F., Brookfield, Wis. Torpedo-cane. No. 1,025,010; Apr. 30; Sp. p. 7020; Gaz. vol. 177; p. 1233.
Neubel, Carl, Rising City, Nebr. Knockdown box. No. 1,041,333; Oct. 15; Gaz. vol. 183; p. 627.
Neuberger, David M. (See Taylor, Edwin, assignor.)
Neuberger, Henry C., and F. P. Bergh, New York, N. Y., assignors, by mesne assignments, to General Reduction Company. Treating starch, &c. No. 1,047,831; Dec. 17; Gaz. vol. 185; p. 778.
Neubert, Amalia H., Chicago, Ill. Cover for ironing-boards. No. 1,042,138; Oct. 22; Gaz. vol. 183; p. 933.
Neuberth, George E., Newark, N. J. Vehicle-spring. No. 1,048,336; Dec. 24; Gaz. vol. 185; p. 976.
Neuburger, Hugo, St. Gallen, Switzerland. Supporting attachment for field-glasses. No. 1,018,771; Feb. 27; Sp. p. 5656; Gaz. vol. 175; p. 977.
Neugardt, Andrew B., Trevorton, Pa. Gang-plow. No. 1,015,826; Jan. 30; Sp. p. 6016; Gaz. vol. 174; p. 1051.
Neuhauser, David L., Chicago, Ill. Method and apparatus for shaping glass. No. 1,028,129; June 4; Sp. p. 78; Gaz. vol. 179; p. 16.
Neuhauser, John H., Shelby, Ohio. Clipping-file. No. 1,037,296; Sept. 3; Gaz. vol. 182; p. 39.
Neuhoefer, John, A. and W. Polacheck, assignors to Chas. Polacheck & Bro. Co., Milwaukee, Wis. Electric fixture. No. 1,014,897; Jan. 16; Sp. p. 4032; Gaz. vol. 174; p. 682.
Neuhold, Erwin, Friedenau, near Berlin, Germany, assignor to The Firma Deutsche Telephonwerke G. m. b. H., Berlin, Germany. Impulse-transmitter. No. 1,021,259; Mar. 26; Sp. p. 4787; Gaz. vol. 176; p. 874.
Neuhold, Erwin, Friedenau, near Berlin, assignor to Deutsche Telephonwerke G. m. b. H., Berlin, Germany. Automatic telephone-exchange. No. 1,033,725; July 23; Gaz. vol. 180; p. 1102.
Neuhold, Erwin, Friedenau, near Berlin, assignor to Firma Deutsche Telephonwerke G. m. b. H., Berlin, Germany. Automatic telephone system. No. 1,044,229; Nov. 12; Gaz. vol. 184; p. 444.
Neukirch, Emmy R., Claremont, near Cape Town, South Africa. Folding extension-bed. No. 1,023,328; Apr. 16; Sp. p. 3386; Gaz. vol. 177; p. 604.
Neuman, Morris. (See Zukor, Arnold, assignor.)
Neumann, Elenora, assignor of one-half to A. Zukor, New York, N. Y. Nursing-bottle holder for baby-carriages. No. 1,030,744; June 25; Sp. p. 6060; Gaz. vol. 179; p. 1032.
Neumann, Friedrich E. F., Wandsbek, near Hamburg, Germany. Apparatus for refining chocolate masses and the like. No. 1,026,110; May 14; Sp. p. 2260; Gaz. vol. 178; p. 381.
Neumann, Friedrich E. F., Wandsbek, near Hamburg, Germany. Producing cocoa-powder. No. 1,032,931; July 16; Gaz. vol. 180; p. 799.
Neumann, Herman, and C. R. Annett, New York, N. Y. Machine for cutting butter. No. 1,018,516; Feb. 27; Sp. p. 5105; Gaz. vol. 175; p. 890.
Neumann, Herman, and A. Dorner, New York, N. Y. Hand-stamp. No. 1,045,065; Nov. 19; Gaz. vol. 184; p. 765.
Neumann, Richard. (See Porges and Neumann.)
Neumayer, Clara, administratrix. (See Neumayer, Maximillian.)
Neumayer, Ludwig, Strassburg, Germany. Apparatus for aerating liquids. No. 1,022,968; Apr. 9; Sp. p. 2601; Gaz. vol. 177; p. 442.
Neumayer, Ludwig, Strassburg, Germany. Vending-machine. No. 1,039,580; Sept. 24; Gaz. vol. 182; p. 904.
Neumayer, Ludwig, Strassburg, Germany. Aerating liquids. No. 1,045,066; Nov. 19; Gaz. vol. 184; p. 765.
Neumayer, Maximillian, deceased, Cincinnati, Ohio; C. Neumayer, administratrix. Centrifugal pump or blower. No. 1,029,554; June 11; Sp. p. 3219; Gaz. vol. 179; p. 540.
Neumeyer, Horace F., *et al.* (See Goodhart, Howard B., assignor.)
Neureither, Warren H., *et al.* (See Kincaid, Ira, assignor.)
Nevels, Anthony L., assignor, by mesne assignments, to The Nevels Manufacturing Company, Hartford, Conn. Coin-controlled apparatus. No. 1,035,224; Aug. 13; Gaz. vol. 181; p. 306.
Nevels, Anthony L., assignor, by mesne assignments, to The Nevels Manufacturing Company, Hartford, Conn. Time-controlled bag-punching machine. No. 1,042,816; Oct. 29; Gaz. vol. 183; p. 1195.
Nevels, Anthony L., Hartford, Conn., assignor, by mesne assignments, to Worcester Novelty Company, Worcester, Mass. Clothes-cleaning machine. No. 1,048,573; Dec. 31; Gaz. vol. 185; p. 1095.
Nevels, Edward O., Enterprise, Ala. Gumming apparatus for gin-saws. No. 1,049,258; Dec. 31; Gaz. vol. 185; p. 1332.
Nevels Manufacturing Company, The. (See Nevels, Anthony L., assignor.)
Never-Fail Company, The. (See Jeremias, Charles, assignor.)
Nevergold, George, Jeannette, assignor to Window Glass Machine Company, Pittsburgh, Pa. Blowpipe-carrier. No. 1,017,450; Feb. 13; Sp. p. 2716; Gaz. vol. 175; p. 457.
Neveu, Alfred, assignor to Société Anonyme Francaise Dite: Banque du Radium, Paris, France. Apparatus for sterilizing liquids by means of ultraviolet rays. No. 1,038,631; Sept. 17; Gaz. vol. 182; p. 560.
Neveu, Edward de. (See Bévenot and Neveu.)
Nevill, David J., Denver, Colo. Stirrer or conveyer. No. 1,039,785; Oct. 1; Gaz. vol. 183; p. 39.
Nevill, David J., Denver, Colo., assignor to J. V. Dorr, Lead, S. D. Ore conveyer and classifier. No. 1,024,647; Apr. 30; Sp. p. 6279; Gaz. vol. 177; p. 1106.
Nevill, Percy. (See Bucknall and Nevill.)

Alphabetical list of patentees—Continued.

Neville, Harry, assignor of one-fifth to G. H. Goodwin, one-fifth to D. P. Kellogg, one-fifth to W. F. Merry, and one-fifth to P. Sheedy, Los Angeles, Cal. Safety apparatus for steam-boilers. No. 1,015,703; Jan. 23; Sp. p. 5766; Gaz. vol. 174; p. 983.
Neville, Herbert. (See Pike and Neville.)
Nevin, Nina C., Sewickley, Pa. Dress-shield. No. 1,048,727; Dec. 31; Gaz. vol. 185; p. 1149.
Nevin, Roy C., Oakland, Cal. Telephone calling device. No. 1,038,419; Sept. 10; Gaz. vol. 182; p. 451.
Nevin, Roy C., Berkeley, Cal. Electric signaling device. No. 1,040,389; Oct. 8; Gaz. vol. 183; p. 271.
Nevins, Frank M., Coalinga, Cal. Shoe for well-casings. No. 1,043,343; Nov. 5; Gaz. vol. 184; p. 107.
New Britain Machine Company, The. (See Brown, Robert S., assignor.)
New Carpet and Textiles Syndicate Limited. (See Hallensleben, Otto, assignor.)
New Departure Manufacturing Company, The. (See Rockwell and Schmelz, assignors.)
New, Edward, Hamilton, Ontario, Canada. Screen for screening or sifting sand, gravel, stone, and other matters. No. 1,025,290; May 7; Sp. p. 394; Gaz. vol. 178; p. 65.
New Era Manufacturing Company. (See Scott, William A., assignor.)
New Era Spinning Co. (See Bélanger, Victor, assignor.)
New Hartford Cotton Manufacturing Company. (See Steber, Bernard T., assignor.)
New Haven Clock Co. (See Porter, Wilson E., assignor.)
New Haven Electrical Mfg. Co., The. (See Barber, Harry C., assignor.)
New Haven Mills Mfg. Co. (See Quinlan, Michael, assignor.)
New Idea Metal Goods Company. (See Boivin, Joseph, assignor.)
New Jersey Foundry and Machine Company. (See Pauli, Carl, assignor.)
New Jersey Testing Laboratories. (See Ellis, Carleton, assignor.)
New Jersey Wire Stitching Machine Company, The. (See Dobbins, John S., assignor.)
New Jersey Zinc Company. (See De Saulles, Charles A. H., assignor.)
New Jersey Zinc Company. (See Kelsey, Weston M., assignor.)
New Jersey Zinc Company. (See Rigg, Gilbert, assignor.)
New Orleans Specialty Co. (See White and Sackett, assignors.)
New South Stock Co. (See McDonald, John R., assignor.)
"New-Way" Motor Company, The. (See Bailey, Curtis L., assignor.)
"New-Way" Motor Company, The. (See Goodnow, Earle W., assignor.)
"New Way" Motor Company, The. (See Newbrough, William H., assignor.)
New York Adding Typewriter Company. (See Pike, William H., Jr., assignor.)
New York Air Brake Company, The. (See Hammond, George O., assignor.)
New York Air Brake Company, The. (See Hammond and Barnes, assignors.)
New York Air Brake Company. (See Minnier, Blythe J., assignor.)
New York Attachable Player Action Co. (See Scott, Ray W., assignor.)
New York Bottlers' Supplies Mfg. Co. (See Husted, Charles L., assignor.)
New York Buckle Company. (See Marinsky, Davis, assignor.)
New York Couch Bed Company. (See Sisbower, George F., assignor.)
New York Engineering Company. (See Ludlum, Albert C., assignor.)
New York Oilless Bearing Company. (See Christophersen, Herbert, assignor.)
New York Revolving Portable Elevator Company. (See Boehck, William E., assignor.)
New York Safety Chest Company, The. (See Ritchel, Charles F., assignor.)
New York Scaffolding Co. (See Cavanagh, Eugene M. and D. F., assignors.)
New York Sewage Disposal Co. (See Wagner, Edward L., assignor.)
New York Stamping Company. (See Simmons, Robert F., assignor.)
New York Stamping Company. (See Wojidkow, Louis, assignor.)
Newark Wagon Company. (See Collins, Wilbur L., assignor.)
Newark Wrapping Machine Co. (See Hohl, George I., assignor.)
Newberry, Spencer B., and H. N. Barrett, Baybridge, Ohio. Making fertilizer. No. 1,020,153; Mar. 12; Sp. p. 2439; Gaz. vol. 176; p. 416.
Newberry, Spencer B., and H. N. Barrett, Baybridge, Ohio. Making fertilizer. No. 1,032,763; July 16; Gaz. vol. 180; p. 745.
Newberry, Spencer B., and H. N. Barrett, Baybridge, Ohio. Fertilizer and making same. No. 1,042,588; Oct. 29; Gaz. vol. 183; p. 1116.
Newbert, Charles K., Coodys Bluff, Okla. Portable hoisting apparatus. No. 1,033,451; July 23; Gaz. vol. 180; p. 1013.
Newbold, Eugene S., assignor to American Street Lighting Company, Baltimore, Md. Lamp. No. 1,043,244; Nov. 5; Gaz. vol. 184; p. 70.
Newbold, Roger M., Chicago, Ill., assignor to The Adams & Westlake Company. Regulator for dynamo-machines and electric circuits. No. 1,034,924; Aug. 6; Gaz. vol. 181; p. 174.
Newbold, Roger M., Chicago, Ill., assignor to The Adams & Westlake Company. Battery-terminal. No. 1,048,574; Dec. 31; Gaz. vol. 185; p. 1095.
Newbrough, William H., assignor to The "New-Way" Motor Company, Lansing, Mich. Multiple-cylinder pump. No. 1,037,297; Sept. 3; Gaz. vol. 182; p. 39.
Newcomb, Claudius. (See Roe, Jackson M., assignor.)
Newcomb, Harley H. (See Roe, Jackson M., assignor.)
Newcomb, Michael P., Sandpoint, Idaho. Can-opener. No. 1,016,513; Feb. 6; Sp. p. 647; Gaz. vol. 175; p. 97.
Newcomb, Michael P., Sandpoint, Idaho, assignor to The Locomotive Equipment Company, Detroit, Mich. Journal-box. No. 1,015,335; Jan. 23; Sp. p. 4968; Gaz. vol. 174; p. 857.
Newcomer, Nathan B., and C. O. Johnson, Paonia, Colo. Orchard-heater. No. 1,038,420; Sept. 10; Gaz. vol. 182; p. 452.
Newell, Allen, Decatur, Tex. Chimney-jacket. No. 1,047,553; Dec. 17; Gaz. vol. 185; p. 682.
Newell, Fred E., Westminster, assignor to Vermont Farm Machine Company, Bellows Falls, Vt. Cow-milking machine. No. 1,029,216; June 11; Sp. p. 2483; Gaz. vol. 179; p. 422.
Newell, Fred E., Westminster, assignor to Vermont Farm Machine Company, Bellows Falls, Vt. Cow-milking machine. No. 1,030,010; June 18; Sp. p. 4223; Gaz. vol. 179; p. 732.
Newell & Neal. (See Myers, Louis, assignor.)
Newell, Peter S. H., Leonia, N. J. Book. No. 1,028,130; June 4; Sp. p. 81; Gaz. vol. 179; p. 17.
Newell, Thomas B., Wilkinsburg, Pa. Forming safe-frames. No. 1,040,567; Oct. 8; Gaz. vol. 183; p. 333.
Newell, Wilmon, College Station, Tex. Insecticide. No. 1,026,361; May 14; Sp. p. 2821; Gaz. vol. 178; p. 467.
Newell, Wilmon, College Station, Tex. Destroying cotton-boll weevils. No. 1,026,599; May 14; Sp. p. 3293; Gaz. vol. 178; p. 544.
Newgold, Morris, New York, N. Y. Flying-machine. No. 1,045,167; Nov. 26; Gaz. vol. 184; p. 827.
Newhall, Charles H., Minneapolis, Minn. Lubricator. No. 1,021,943; Apr. 2; Sp. p. 400; Gaz. vol. 177; p. 66.
Newhall, Charles H., Minneapolis, Minn. Lubricator. No. 1,021,944; Apr. 2; Sp. p. 402; Gaz. vol. 177; p. 66.
Newhall, Charles H., Minneapolis, Minn. Lubricating-cup. No. 1,022,107; Apr. 2; Sp. p. 748; Gaz. vol. 177; p. 119.
Newhall, George M., Philadelphia, Pa. Separator for vacuum-pans. No. 1,015,629; Jan. 23; Sp. p. 5596; Gaz. vol. 174; p. 959.
Newhall, George M., Philadelphia, Pa. Separator for vacuum-pans. No. 1,015,704; Jan. 23; Sp. p. 5770; Gaz. vol. 174; p. 983.
Newhall, Henry B. (See Pleister, Henry W., assignor.)
Newhall, Walter S., assignor to The Cleveland Railway Supply Company, Cleveland, Ohio. Rail-fastening device. No. 1,040,568; Oct. 8; Gaz. vol. 183; p. 333.
Newhall, Walter S., assignor to The Cleveland Railway Supply Company, Cleveland, Ohio. Guard-rail fastener. No. 1,041,334; Oct. 15; Gaz. vol. 183; p. 628.
Newhall, Walter S., S. W. Linn, and A. C. Hezlep, assignors to The Cleveland Railway Supply Company, Cleveland, Ohio. Thawing apparatus. No. 1,044,230; Nov. 12; Gaz. vol. 184; p. 444.
Newhouse, Ray C., assignor to Allis-Chalmers Company, Milwaukee, Wis. End-play device. No. 1,019,074; Mar. 5; Sp. p. 144; Gaz. vol. 176; p. 24.
Newhouse, Ray C., assignor to Allis-Chalmers Company, Milwaukee, Wis. Crusher. No. 1,031,083; July 2; Gaz. vol. 180; p. 84.
Newitt, Edward J. D., London, England, assignor to Remington Arms and Ammunition Company, New York, N. Y. Gun-sight. No. 1,034,925; Aug. 6; Gaz. vol. 181; p. 175.
Newitt, Edward J. D., London, England, assignor to Remington Arms and Ammunition Company, Ilion, N. Y. Battle-sight. No. 1,035,124; Aug. 6; Gaz. vol. 181; p. 240.
Newland, David J. (See Dearborn, Charles A., assignor.)
Newlin, James, Burlington, N. C. Packing. No. 1,023,525; Apr. 16; Sp. p. 3765; Gaz. vol. 177; p. 665.
Newman, Alvin E., Chicago, Ill. Cue-chalker. No. 1,041,148; Oct. 15; Gaz. vol. 183; p. 564.
Newman, Arthur W., Philadelphia, Pa. Hosiery. No. 1,017,310; Feb. 13; Sp. p. 2397; Gaz. vol. 175; p. 408.
Newman, Bert W., Rocky Ford, assignor of one-half to A. L. Turnipseed, Creede, Colo. Receptacle. No. 1,023,675; Apr. 16; Sp. p. 4062; Gaz. vol. 177; p. 712.
Newman, Birt W., Rocky Ford, assignor of one-third to A. L. Turnipseed, Yampa, Colo. Tanning compound. No. 1,034,283; July 30; Gaz. vol. 180; p. 1325.

Alphabetical list of patentees—Continued.

Newman, Charles H., Blackstone, Va. Spark-regulator for explosion-engines. No. 1,029,026; June 11; Sp. p. 2085; Gaz. vol. 179; p. 359.
Newman, Enos S., Washington, D. C., assignor, by mesne assignments, to Burroughs Adding Machine Company, Detroit, Mich. Combined type-writing and adding machine. No. 1,015,630; Jan. 23; Sp. p. 5597; Gaz. vol. 174; p. 959.
Newman, Harry J., Miami, Tex. Combined rail joint and chair. No. 1,042,027; Oct. 22; Gaz. vol. 183; p. 898.
Newman, Henry W., Mill Hill, England. Grinding or abrading machine. No. 1,042,817; Oct. 29; Gaz. vol. 183; p. 1195.
Newman, Hugo, New York, N. Y. Stereoscopic apparatus. No. 1,018,439; Feb. 27; Sp. p. 4880; Gaz. vol. 175; p. 864.
Newman, Hugo, New York, N. Y. Educational device. No. 1,028,378; June 4; Sp. p. 687; Gaz. vol. 179; p. 104.
Newman, Isidor, New York, N. Y. Cigar-tip cutter. No. 1,013,889; Jan. 9; Sp. p. 1784; Gaz. vol. 174; p. 306.
Newman, Isidore. (See Zukor, Arnold, assignor.)
Newman, James F., Greenville, Fla. Composition of matter. No. 1,019,989; Mar. 12; Sp. p. 2098; Gaz. vol. 176; p. 362.
Newman, Paul. (See Blattle, Herman I., assignor.)
Newman, S. S. (See Miller, Henry G., assignor.)
Newman, Thomas S., Newton, Mass. Gas-lighting device. No. 1,045,874; Dec. 3; Gaz. vol. 185; p. 27.
Newman, William R., Brooklyn, assignor of one-half to E. H. Clark, New York, N. Y. Extensible hat-pin. No. 1,043,027; Oct. 29; Gaz. vol. 183; p. 1267.
Newman, Yorgen, Monroe, Utah. Engine-cooling device. No. 1,043,344; Nov. 5; Gaz. vol. 184; p. 107.
Newmann, Hermann, New York, N. Y. Attachment for engine-lathes. No. 1,031,956; July 9; Gaz. vol. 180; p. 427.
Newmann, Hermann, New York, N. Y. Turret attachment for engine-lathes. No. 1,037,298; Sept. 3; Gaz. vol. 182; p. 40.
Newmann, John, Brooklyn, N. Y. Split roller-bearing. No. 1,037,510; Sept. 3; Gaz. vol. 182; p. 114.
Newpher, Alfred H. (See Hamm and Newpher.)
Newpher, Alfred H., assignor to The Adams & Westlake Company, Chicago, Ill. Car-window. No. 1,025,640; May 7; Sp. p. 1200; Gaz. vol. 178; p. 184.
Newpher, Alfred H., assignor to The Adams & Westlake Company, Chicago, Ill. Window-sash. No. 1,029,217; June 11; Sp. p. 2485; Gaz. vol. 179; p. 423.
Newpher, Alfred H., Chicago, Ill., assignor to The Adams & Westlake Company. Window-sash. No. 1,031,364; July 2; Gaz. vol. 180; p. 181.
Newpher, Alfred H., assignor to The Adams & Westlake Company, Chicago, Ill. Car-window. No. 1,031,575; July 2; Gaz. vol. 180; p. 252.
Newpher, Alfred H., Chicago, Ill., assignor to The Adams & Westlake Company. Window-sash and weather-guard therefor. No. 1,035,034; Aug. 6; Gaz. vol. 181; p. 210.
Newpher, Alfred H., Chicago, Ill., assignor to The Adams & Westlake Company. Window-sash and weather-guard therefor. No. 1,035,035; Aug. 6; Gaz. vol. 181; p. 210.
Newsome, William, Richmond, Va. Plow. No. 1,039,581; Sept. 24; Gaz. vol. 182; p. 905.
Newton, Albert E., Worcester, Mass., assignor to Prentice Bros. Company. Belt-drive. No. 1,019,516; Mar. 5; Sp. p. 1170; Gaz. vol. 176; p. 173.
Newton, Albert E., Worcester, Mass., assignor to Prentice Bros. Company. Weight safety device. No. 1,019,517; Mar. 5; Sp. p. 1171; Gaz. vol. 176; p. 174.
Newton, Albert E., Worcester, Mass., assignor to Prentice Bros. Company. Lathe. No. 1,031,284; July 2; Gaz. vol. 180; p. 154.
Newton, Albert S., Providence, R. I. Door-buffer. No. 1,044,412; Nov. 12; Gaz. vol. 184; p. 508.
Newton, B. W., *et al.*, trustees. (See Converse, Newton B., assignor.)
Newton, George W., Newton, Iowa. Book and pad holder. No. 1,042,589; Oct. 29; Gaz. vol. 183; p. 1116.
Newton, Harold M., St. Louis, Mo., assignor, by mesne assignments, to The Kettle River Company. Preserved wood. No. 1,037,831; Sept. 3; Gaz. vol. 182; p. 218.
Newton, Harold M., St. Louis, Mo., assignor, by mesne assignments, to The Kettle River Company. Preserved wood. No. 1,037,832; Sept. 3; Gaz. vol. 182; p. 218.
Newton, Helen, Plattsburg, N. Y. Window-shade holder. No. 1,045,734; Nov. 26; Gaz. vol. 184; p. 1029.
Newton, Henry G. (See North, Charles R., assignor.)
Newton, John L., assignor to Hart & Crouse Company, Utica, N. Y. Boiler-grate. No. 1,028,902; June 11; Sp. p. 1815; Gaz. vol. 179; p. 316.
Newton, John P., *et al.* (See Hickton, Charles, assignor.)
Newton Producing Company. (See Bonine, Charles E., assignor.)
Newton, Thomas L., Fresno, Cal. Grease-dispensing apparatus. No. 1,015,395; Jan. 23; Sp. p. 5094; Gaz. vol. 174; p. 878.
Newton, Wallace, Huron, S. D. Measuring vessel. No. 1,037,794; Sept. 3; Gaz. vol. 182; p. 206.
Newton, Whitney. (See Hoop, James P., assignor.)
Newton, William A., Richmond, Va. Trowel. No. 1,021,945; Apr. 2; Sp. p. 404; Gaz. vol. 177; p. 67.
Newton, William J., Lynbrook, N. Y., assignor to Metropolitan Electric Mfg. Co. Combined switch and tap-off. No. 1,038,940; Sept. 17; Gaz. vol. 182; p. 667.
Newville, William H., Delta, Colo. Tongs. No. 1,021,790; Apr. 2; Sp. p. 71; Gaz. vol. 177; p. 15.
Ney, Jacob, Canton, Ohio. Merry-go-round. No. 1,014,249; Jan. 9; Sp. p. 2585; Gaz. vol. 174; p. 431.
Neyland, Cary A., Spokane, Wash. Current-motor. No. 1,027,213; May 21; Sp. p. 4717; Gaz. vol. 178; p. 792.
Neymann, Percy. (See Dosselman and Neymann.)
Niagara Sprayer Company. (See Halland, Alfred S., assignor.)
Niblett, Job T., Stockwell, and W. H. Cadman, London, England. Electric hair-comb. No. 1,033,726; July 23; Gaz. vol. 180; p. 1103.
Nice, Frederick J., Pontiac, Mich. Heating-furnace. No. 1,022,204; Apr. 2; Sp. p. 958; Gaz. vol. 177; p. 153.
Nice, Fredrick J., Pontiac, Mich. Hydrocarbon-burner. No. 1,031,365; July 2; Gaz. vol. 180; p. 181.
Nichol, Clinton, Preston, Okla. Valve. No. 1,036,513; Aug. 20; Gaz. vol. 181; p. 788.
Nicholas, Marks H. (See Tillotson and Nicholas.)
Nicholas, William F., Chicago, Ill. Combined scale and writing instrument. No. 1,025,586; May 7; Sp. p. 1078; Gaz. vol. 178; p. 167.
Nicholls, Hal M. (See Sellers and Nicholls.)
Nicholls, Walter H., Charlestown, Mass. Clipper. No. 1,021,999; Apr. 2; Sp. p. 530; Gaz. vol. 177; p. 83.
Nichols, Aaron S., New York, N. Y. Holder for disk records. No. 1,026,111; May 14; Sp. p. 2262; Gaz. vol. 178; p. 381.
Nichols, Alfred O., Omaha, Nebr. Street-car signal. No. 1,047,110; Dec. 10; Gaz. vol. 185; p. 492.
Nichols, Andrew P., Seattle, Wash. Electrical switch. No. 1,047,277; Dec. 17; Gaz. vol. 185; p. 584.
Nichols, Charles B., Springfield, and F. E. Shepherd, Chicago, Ill. Railway-tie. No. 1,048,199; Dec. 24; Gaz. vol. 185; p. 930.
Nichols, Charles H., Wolverton, England. Mud-guard for the wheels of motor and other vehicles. No. 1,021,724; Mar. 26; Sp. p. 5747; Gaz. vol. 176; p. 1032.
Nichols, Charles W., Rahway, N. J. Arrangement for inclosing vacuum conduit systems. No. 1,026,406; May 14; Sp. p. 2914; Gaz. vol. 178; p. 482.
Nichols, Charles W., Rahway, N. J. Advertising device. No. 1,041,149; Oct. 15; Gaz. vol. 183; p. 564.
Nichols, Clara, Hillyard, Wash. Water-heater. No. 1,028,261; June 4; Sp. p. 433; Gaz. vol. 179; p. 63.
Nichols Copper Co. (See Herreshoff, John B. F., assignor.)
Nichols, Elmer P., assignor to Lacene Manufacturing Company, Manchester, N. H. Evening and grading machine. No. 1,046,213; Dec. 3; Gaz. vol. 185; p. 143.
Nichols, Frederick. (See Beseman and Nichols.)
Nichols, Grace C., *et al.*, executors. (See Creuzbaur, Robert.)
Nichols, Henry B., Philadelphia, Pa. Saw. No. 1,021,551; Mar. 26; Sp. p. 5426; Gaz. vol. 176; p. 977.
Nichols, Henry B., assignor to W. D. Gherky, Philadelphia, Pa. Grinding-machine. (Reissue.) No. 13,451; July 30; Gaz. vol. 180; p. 1369.
Nichols, Henry B., assignor to W. D. Gherky, Philadelphia, Pa. Grinding-machine. No. 1,035,129; Aug. 6; Gaz. vol. 181; p. 242.
Nichols, Henry B., assignor to W. D. Gherky, Philadelphia, Pa. Grinding-machine. No. 1,035,131; Aug. 6; Gaz. vol. 181; p. 242.
Nichols, Henry H., Philadelphia, Pa. Torch. No. 1,036,514; Aug. 20; Gaz. vol. 181; p. 789.
Nichols, Lewis A., Chicago, Ill. Paper-folder. No. 1,015,580; Jan. 23; Sp. p. 5497; Gaz. vol. 174; p. 940.
Nichols, Lewis P., Pittsburgh, Pa. Window-refrigerator. No. 1,036,888; Aug. 27; Gaz. vol. 181; p. 945.
Nichols-Linten Company, The. (See Linten, William, assignor.)
Nichols, Robert E., Akron, Ohio. Postage-stamp-affixing machine. No. 1,046,214; Dec. 3; Gaz. vol. 185; p. 143.
Nichols, Robert J., Berlin, Ga. Motor-vehicle. No. 1,045,067; Nov. 19; Gaz. vol. 184; p. 765.
Nichols, Samuel F., Chicago, Ill. Motor-operated brake mechanism. No. 1,029,883; June 18; Sp. p. 3972; Gaz. vol. 179; p. 691.
Nichols, Thomas F., Ray, Ariz. Solar heater. No. 1,014,972; Jan. 16; Sp. p. 4206; Gaz. vol. 174; p. 708.
Nichols, Thomas F., Ray, Ariz. Solar steam-generator. No. 1,047,554; Dec. 17; Gaz. vol. 185; p. 682.
Nichols, Wallace W. (See Billado, Jason A., assignor.)
Nichols, Walter B., Lexington, Ky. Needle for talking-machines, &c. No. 1,045,593; Nov. 26; Gaz. vol. 184; p. 978.
Nichols, Wesley G. (See Brush, George H., assignor.)
Nichols, William H., Waltham, Mass. Thread-gage. No. 1,032,764; July 16; Gaz. vol. 180; p. 745.
Nichols, Winfield S., assignor to Independent Harvester Company, Plano, Ill. Draft-equalizer. No. 1,038,632; Sept. 17; Gaz. vol. 182; p. 560.
Nicholson, Darrel. (See Nicholson, John E., assignor.)
Nicholson, George D., *et al.* (See James, Charles, assignor.)
Nicholson, George O., Longbeach, Cal. Astigmatic chart. No. 1,013,428; Jan. 2; Sp. p. 747; Gaz. vol. 174; p. 118.

Alphabetical list of patentees—Continued.

Nicholson, James H. (See Johnson and Nicholson.)
Nicholson, John E., Elkhart, Ill., assignor of one-half to D. Nicholson, Dexter, Kans. Combined track and trolley switch operating mechanism. No. 1,024,353; Apr. 23; Sp. p. 5532; Gaz. vol. 177; p. 969.
Nicholson, John H. (See Offutt, John W., assignor.)
Nicholson, Robert J., Chicago, Ill. Bookbinder. No. 1,045,168; Nov. 26; Gaz. vol. 184; p. 828.
Nicholson, William, San Francisco, Cal. Hemming attachment for sewing-machines. No. 1,044,413; Nov. 12; Gaz. vol. 184; p. 508.
Nickel, Franz F., East Orange, N. J. Steam-engine. No. 1,031,576; July 2; Gaz. vol. 180; p. 252.
Nickels, Frederick E. (See Butler, James A., assignor.)
Nickerson, Albert E., Chicago, Ill. Cleaning system. No. 1,038,185; Sept. 10; Gaz. vol. 182; p. 370.
Nickerson, Susan, Portland, Oreg. Sieve. No. 1,019,347; Mar. 5; Sp. p. 772; Gaz. vol. 176; p. 118.
Nickerson, William J., New Orleans, La. Dancing figure. No. 1,023,589; Apr. 16; Sp. p. 3902; Gaz. vol. 177; p. 687.
Nickol, Frederick C., and M. C. Stern, assignors to The Egry Register Company, Dayton, Ohio. Manifolding device. No. 1,015,581; Jan. 23; Sp. p. 5500; Gaz. vol. 174; p. 941.
Nickum, Walter D., and M. Claussen, Los Angeles, Cal. Pneumatic clutch-controller. No. 1,018,772; Feb. 27; Sp. p. 5657; Gaz. vol. 175; p. 977.
Nicles, James, assignor of one-third to W. G. Weiss, San Francisco, Cal. Paint and varnish remover. No. 1,034,819; Aug. 6; Gaz. vol. 181; p. 141.
Nicodemus, William W., Taylorville, Ill. Door-hanger. No. 1,015,827; Jan. 30; Sp. p. 6018; Gaz. vol. 174; p. 1051.
Nicol, John L., Sydney, New South Wales, Australia. Spring-frame for pince-nez. No. 1,017,579; Feb. 13; Sp. p. 2949; Gaz. vol. 175; p. 498.
Nicol, Thomas W., Kansas City, Mo. Grate. No. 1,030,528; June 25; Sp. p. 5434; Gaz. vol. 179; p. 955.
Nicolai, Gustav, Honolulu, Hawaii. Hydraulic jack. No. 1,022,865; Apr. 9; Sp. p. 2372; Gaz. vol. 177; p. 406.
Nicolaus, Frederic G., Cleveland, Ohio, assignor to American Stove Company, St. Louis, Mo. Gas-valve. No. 1,038,941; Sept. 17; Gaz. vol. 182; p. 667.
Nicoll, Benjamin F., assignor of fifteen one-hundredths to J. T. Sullivan, New Orleans, La. Mail-bag-delivery mechanism. No. 1,027,883; May 28; Sp. p. 6152; Gaz. vol. 178; p. 1057.
Niditch, Isadore, Dorchester, Mass. Compound for railway time signal-fusees. No. 1,029,884; June 18; Sp. p. 3975; Gaz. vol. 179; p. 691.
Niditch, Isadore, Dorchester, Mass., assignor to American Fog Signal Company, Pittsburgh, Pa. Railway signal-fusee. No. 1,015,062; Jan. 16; Sp. p. 4396; Gaz. vol. 174; p. 738.
Nieberding, Frank A., and E. V. Coulston, assignors to The Economy Stove Company, Cleveland, Ohio. Gas-range. No. 1,047,435; Dec. 17; Gaz. vol. 185; p. 638.
Niebling, George W., assignor of one-half to J. J. Connell, Rochester, N. Y. Support. No. 1,014,021; Jan. 9; Sp. p. 2088; Gaz. vol. 174; p. 350.
Niedergang, Antoine, Houston, Tex. Plumb-level. No. 1,046,101; Dec. 3; Gaz. vol. 185; p. 104.
Niederlander, Nicholas F., assignor to Westinghouse Automatic Air & Steam Coupler Company, St. Louis, Mo. Automatic train-pipe coupling. No. 1,025,291; May 7; Sp. p. 396; Gaz. vol. 178; p. 65.
Niederlander, Nicholas F., and R. E. Adreon, assignors to Westinghouse Automatic Air & Steam Coupler Company, St. Louis, Mo. Swivel pipe-joint. No. 1,015,904; Jan. 30; Sp. p. 6191; Gaz. vol. 174; p. 1079.
Niederlitz, Joseph D., Jersey City, N. J. Trap. No. 1,024,278; Apr. 23; Sp. p. 5407; Gaz. vol. 177; p. 947.
Niedermeyer, Arthur. (See Bernhard and Niedermeyer.)
Nield, John H., Hackensack, N. J., assignor to General Chemical Company, New York, N. Y. Salt-cake furnace. No. 1,033,825; July 30; Gaz. vol. 180; p. 1163.
Nield, Josiah, assignor to Avery Scale Company, North Milwaukee, Wis. Automatic weighing-machine. No. 1,014,717; Jan. 16; Sp. p. 3619; Gaz. vol. 174; p. 620.
Nielsen, Andreas, Copenhagen, assignor to H. Friis, Frederiksberg, near Copenhagen, Denmark. Meat-chopping machine. No. 1,029,141; June 11; Sp. p. 2330; Gaz. vol. 179; p. 397.
Nielsen, Anton E., Brooklyn, assignor to F. Wolf, New York, N. Y. Pasting-machine. No. 1,034,492; Aug. 6; Gaz. vol. 181; p. 30.
Nielsen, Catherine, *et al.* (See Geier, James, assignor.)
Nielsen, Frederik, Boston, Mass. Shock-absorber. No. 1,016,514; Feb. 6; Sp. p. 649; Gaz. vol. 175; p. 97.
Nielsen, Herman, Copenhagen, Denmark. Lock. No. 1,043,131; Nov. 5; Gaz. vol. 184; p. 29.
Nielsen, Jens, Copenhagen, Denmark. Milking-machine. No. 1,017,580; Feb. 13; Sp. p. 2951; Gaz. vol. 175; p. 498.
Nielsen, Jens, Cedar Falls, Iowa. Rotary engine. No. 1,042,951; Oct. 29; Gaz. vol. 183; p. 1240.
Nielsen, John F. (See Lauritzen and Nielsen.)
Nieman, Albert. (See Nieman, George and A.)
Nieman, George and A., Sayler Park, Ohio. Chicken-feeder. No. 1,029,623; June 18; Sp. p. 3369; Gaz. vol. 179; p. 600.
Niemann, William L., Mount Olive, Ill. Brooder. No. 1,041,851; Oct. 22; Gaz. vol. 183; p. 838.
Niemann, William L., Mount Olive, Ill. Hover. No. 1,041,852; Oct. 22; Gaz. vol. 183; p. 838.
Niemeyer, Frederick, Hoboken, N. J. Lithograining metal plates. No. 1,045,068; Nov. 19; Gaz. vol. 184; p. 766.
Niemi, Sakarias K., Tower, Minn. Saw-setting device. No. 1,038,186; Sept. 10; Gaz. vol. 182; p. 371.
Nier, Ernst, Beierfeld, Germany. Producing horns for gramophones and the like. No. 1,038,942; Sept. 17; Gaz. vol. 182; p. 668.
Nies, Henry, Mount Rainier, Md., assignor of one-half to J. B. Ryon, Washington, D. C. Cork-extractor. No. 1,042,952; Oct. 29; Gaz. vol. 183; p. 1241.
Nies, Jean, Karlsruhe, Germany. Apparatus for filling bottles. No. 1,015,631; Jan. 23; Sp. p. 5609; Gaz. vol. 174; p. 959.
Nieschang, Charles C. F., Fort Wayne, Ind. Signal. No. 1,019,827; Mar. 12; Sp. p. 1751; Gaz. vol. 176; p. 307.
Niesen, Hubert. (See Niesen, Michael H. and H.)
Niesen, Michael H. and H., Kaukauna, Wis. Universal pipe-coupling. No. 1,020,839; Mar. 19; Sp. p. 3907; Gaz. vol. 176; p. 683.
Niewohner, John, Cleveland, Ohio. Nut-lock. No. 1,021,110; Mar. 26; Sp. p. 4455; Gaz. vol. 176; p. 824.
Nightingale, John, and J. Sackett, Charlton, England. Screw-stopper for bottles and other receptacles. No. 1,016,286; Feb. 6; Sp. p. 113; Gaz. vol. 175; p. 18.
Nightingall, Victor C. J., Melbourne, Victoria, Australia. Radio-active composition of matter. No. 1,017,581; Feb. 13; Sp. p. 2952; Gaz. vol. 175; p. 499.
Niles-Bement-Pond Company. (See Greenleaf, George E., assignor.)
Niles-Bement-Pond Company. (See Greenleaf and Teas, assignors.)
Niles-Bement-Pond Company. (See Hagman, William J., assignor.)
Niles-Bement-Pond Company. (See Teas and Reiss, assignors.)
Niles-Bement-Pond Company. (See Wray and Pyle, assignors.)
Niles, Edith L., Cincinnati, Ohio. Moving advertisement device. No. 1,015,241; Jan. 16; Sp. p. 4731; Gaz. vol. 174; p. 797.
Niles, Glenn H. (See Dell and Niles.)
Niles, Harry F., assignor of one-half to T. A. Schlick, Chicago, Ill. Garment-supporter. No. 1,039,995; Oct. 1; Gaz. vol. 183; p. 108.
Nill, John B., Warren, Ohio, assignor of one-sixth to P. J. Murphy and one-sixth to W. S. German, McKeesport, Pa. Stool. No. 1,016,763; Feb. 6; Sp. p. 1188; Gaz. vol. 175; p. 182.
Nilsen, Ole E., Seattle, Wash. Distributing-valve. No. 1,030,604; June 25; Sp. p. 5670; Gaz. vol. 179; p. 982.
Nilsen, Sivert B., Warroad, Minn. Hinge. No. 1,045,875; Dec. 3; Gaz. vol. 185; p. 27.
Nilson, Lars G., Hoboken, N. J., assignor of one-half to W. B. Strang, New York, N. Y. Oil-feeding mechanism. No. 1,020,774; Mar. 19; Sp. p. 3775; Gaz. vol. 176; p. 661.
Nilson, Nils, Wayzata, Minn. Scale. No. 1,022,376; Apr. 2; Sp. p. 1297; Gaz. vol. 177; p. 209.
Nilson, Nils, Worcester, Mass. Double-neck bottle. No. 1,040,390; Oct. 8; Gaz. vol. 183; p. 272.
Nilson, Oliver C., Carthage, Mo. Mixer and stirrer. No. 1,013,803; Jan. 2; Sp. p. 1561; Gaz. vol. 174; p. 248.
Nilson, Pehr A., Philadelphia, Pa. Flying-machine. No. 1,033,452; July 23; Gaz. vol. 180; p. 1014.
Nilsson, Charles O., New York, N. Y. Pin-guard. No. 1,027,427; May 28; Sp. p. 5164; Gaz. vol. 178; p. 905.
Nilsson, Johan L., Chicago, Ill. Soldering-iron. No. 1,043,963; Nov. 12; Gaz. vol. 184; p. 354.
Nilsson, Jöns L., Kristianstad, Sweden. Refrigerating device. No. 1,040,739; Oct. 8; Gaz. vol. 183; p. 395.
Nilsson, Otto, assignor of one-third to E. E. L. Montelius and one-third to V. Nilsson, New York, N. Y. Folding go-cart. No. 1,025,292; May 7; Sp. p. 397; Gaz. vol. 178; p. 65.
Nilsson, Vigo, *et al.* (See Nilsson, Otto, assignor.)
Nilsson, Wilhelm B., Stockholm, Sweden. Sharpening apparatus for knives, scissors, and the like. No. 1,042,253; Oct. 22; Gaz. vol. 183; p. 971.
Nimmo, Thomas, South Portland, and A. G. Libby, Portland, Me. Match-making machine. No. 1,029,218; June 11; Sp. p. 2488; Gaz. vol. 179; p. 423.
Nims, Vivian R., *et al.* (See Edenfeldt, Carl, assignor.)
Nind, Frederick G., and F. Julyan, Chicago, Ill., assignors, by mesne assignments, to The American Multigraph Company, Cleveland, Ohio. Paper-folding machine. No. 1,047,688; Dec. 17; Gaz. vol. 185; p. 730.
Nind, Frederick G., and F. Julyan, assignors to The American Multigraph Company, Cleveland, Ohio. Paper-feeding mechanism. No. 1,047,689; Dec. 17; Gaz. vol. 185; p. 731.
Nind, Frederick G., and F. Julyan, assignors to The American Multigraph Company, Cleveland, Ohio. Folding-machine. No. 1,048,996; Dec. 31; Gaz. vol. 185; p. 1242.

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Ninke, Albert F. (See McCoig, Franklin P., assignor.)
Nippes, Harry M., Ivyland, Pa. Apparatus for cutting asparagus-stalks. No. 1,046,485; Dec. 10; Gaz. vol. 185; p. 277.
Nisbet, David F., Crafton, Pa. Rolling-mill appliance. No. 1,038,421; Sept. 10; Gaz. vol. 182; p. 452.
Nisbet, David F., Crafton, assignor to Mackintosh Hemphill & Co., Pittsburgh, Pa. Rolling-mill. No. 1,047,133; Dec. 10; Gaz. vol. 185; p. 502.
Nishida, Tokutaro, Seattle, Wash. Can-labeling machine. No. 1,018,398; Feb. 20; Sp. p. 4781; Gaz. vol. 175; p. 818.
Nissinen, Toimi A., New York, assignor to F. G. Zinsser, Hastings-upon-Hudson, N. Y. Bottle-capping machine. No. 1,043,132; Nov. 5; Gaz. vol. 184; p. 30.
Nissinen, Toimi A., New York, assignor to F. G. Zinsser, Hastings-upon-Hudson, N. Y. Applying caps to bottles. No. 1,043,133; Nov. 5; Gaz. vol. 184; p. 30.
Nissinen, Toimi A., New York, assignor to F. G. Zinsser, Hastings-upon-Hudson, N. Y. Bottle-cap. No. 1,043,134; Nov. 5; Gaz. vol. 184; p. 30.
Nistle, George W., Muskegon, Mich., assignor to Illinois Engineering Company, Chicago, Ill. Steam-trap. No. 1,025,293; May 7; Sp. p. 399; Gaz. vol. 178; p. 66.
Niswonger, Dorman D., Dayton, Ohio. Wrapping-twine holder. No. 1,040,740; Oct. 8; Gaz. vol. 183; p. 396.
Nitrogen Company, The. (See Acker, Charles E., assignor.)
Nitrogen Limited. (See Phillips, William A., assignor.)
Nitsch, Stanislaus. (See Winterstein and Nitsch.)
Nitzsche, Julius, Wisner, Nebr. Wheel-fender. No. 1,013,804; Jan. 2; Sp. p. 1562; Gaz. vol. 174; p. 248.
Nix, Manning L., Oklahoma, Okla. Trunk-strap. No. 1,031,813; July 9; Gaz. vol. 180; p. 377.
Nixon, Franklin S., Phillipsburg, N. J. Cement vault. No. 1,021,623; Mar. 26; Sp. p. 5562; Gaz. vol. 176; p. 999.
Nixon, Moses C., Peru, Ind. Windmill. No. 1,020,924; Mar. 19; Sp. p. 4066; Gaz. vol. 176; p. 711.
Nixon, Moses C., Peru, Ind. Baling-press. No. 1,022,393; Apr. 2; Sp. p. 1326; Gaz. vol. 177; p. 215.
Nixon, Moses C., Peru, Ind. Baling-press. No. 1,022,394; Apr. 2; Sp. p. 1328; Gaz. vol. 177; p. 216.
Nixon, Moses C., Peru, Ind. Baling-press. No. 1,043,345; Nov. 5; Gaz. vol. 184; p. 108.
Nixon, Thomas C., Chicago, Ill. Roll-reducing machine for cereals. No. 1,042,717; Oct. 29; Gaz. vol. 183; p. 1161.
No-Mar Manufacturing Company, The. (See Basset, Clay, and Phare, assignors.)
No-Mar Manufacturing Company, The. (See Phare and Clay, assignors.)
Noack, Carl, Charlottenburg, assignor to Siemens & Halske, A. G., Berlin, Germany. Signaling means for fire-alarms. No. 1,039,996; Oct. 1; Gaz. vol. 183; p. 108.
Noack, Max, Friedenau, near Berlin, Germany. Rendering the joints of the casemated port-holes of war-ships water-tight. No. 1,039,316; Sept. 24; Gaz. vol. 182; p. 811.
Noack, Walter G., Elmhurst, assignor of one-half to W. A. Sage, Hanford, Cal. Self-laying endless track for vehicles. No. 1,014,898; Jan. 16; Sp. p. 4034; Gaz. vol. 174; p. 682.
Noakes, William, Portland, Oreg. Saucepan-cover. No. 1,021,066; Mar. 26; Sp. p. 4372; Gaz. vol. 176; p. 812.
Noall, Richard. (See Webster and Noall.)
Noble, Bertram C. (See Reed, Ezra E., assignor.)
Noble, Donald, Bridgeport, Conn. Machine for covering or insulating wire with yarn or its equivalent. No. 1,032,854; July 16; Gaz. vol. 180; p. 776.
Noble, Donald, Bridgeport, Conn., assignor to The Singer Manufacturing Company. Sewing-machine. No. 1,017,164; Feb. 13; Sp. p. 2075; Gaz. vol. 175; p. 357.
Noble, Donald, Bridgeport, Conn., assignor to The Singer Manufacturing Company. Sewing-machine. No. 1,020,112; Mar. 12; Sp. p. 2360; Gaz. vol. 176; p. 403.
Noble, Donald, Bridgeport, Conn., assignor to The Singer Manufacturing Company. Crank hemstitch embroidering-machine. No. 1,033,055; July 16; Gaz. vol. 180; p. 842.
Noble, Donald, and J. S. Finch, Bridgeport, Conn., assignors, by mesne assignments, to The Singer Manufacturing Company. Buttonhole-sewing machine. No. 1,032,621; July 16; Gaz. vol. 180; p. 695.
Noble, Donald, and J. S. Finch, Bridgeport, Conn., assignors, by mesne assignments, to The Singer Manufacturing Company. Stop-motion mechanism for sewing-machines. No. 1,047,111; Dec. 10; Gaz. vol. 185; p. 492.
Noble, George W., Brooklyn, assignor to John Simmons Company, New York, N. Y. Fire-hose cabinet. No. 1,049,136; Dec. 31; Gaz. vol. 185; p. 1290.
Noble, Glenn S., Chicago, Ill. Mixer. No. 1,018,629; Feb. 27; Sp. p. 5350; Gaz. vol. 175; p. 928.
Noble, John. (See Livingston, John W., assignor.)
Noble, Ralph E., assignor to Morgan-Gardner Electric Company, Chicago, Ill. Mining-machine. No. 1,019,722; Mar. 5; Sp. p. 1550; Gaz. vol. 176; p. 241.
Noble, Walter T., *et al.* (See Flynt, Edward E., assignor.)
Noble, Warren, assignor to C. Thompson and T. T. Francis, St. Louis, Mo. Electrical signaling system. No. 1,048,200; Dec. 24; Gaz. vol. 185; p. 930.
Noble, William C. H., Los Angeles, Cal. Hot-air furnace. No. 1,013,304; Jan. 2; Sp. p. 483; Gaz. vol. 174; p. 76.
Noble, William C. H., Los Angeles, Cal. Oil-burning apparatus. No. 1,029,818; June 18; Sp. p. 3808; Gaz. vol. 179; p. 668.
Nobles, Harrison D., East Hartford, Conn. Grease-filter. No. 1,014,843; Jan. 16; Sp. p. 3914; Gaz. vol. 174; p. 663.
Nocard, Paul, Paris, France, assignor to L. T. Piver & Cie. Vanity-box. No. 1,022,254; Apr. 2; Sp. p. 1060; Gaz. vol. 177; p. 169.
Noe, Elzer C., Chicago, Ill. Turnstile. No. 1,035,462; Aug. 13; Gaz. vol. 181; p. 390.
Noeggerath, Jakob E., New York, N. Y. Railway system. No. 1,027,354; May 21; Sp. p. 4991; Gaz. vol. 178; p. 841.
Noeggerath, Jakob E., Schenectady, N. Y., assignor to General Electric Company. Dynamo-electric machine. No. 1,027,145; May 21; Sp. p. 4588; Gaz. vol. 178; p. 771.
Noeggerath, Jakob E., Schenectady, N. Y., assignor to General Electric Company. Dynamo-electric machine. No. 1,043,028; Oct. 29; Gaz. vol. 183; p. 1268.
Noel, Elisha B., assignor of one-half to E. W. Carlton, Cordell, Okla. Cotton-chopper. No. 1,043,456; Nov. 5; Gaz. vol. 184; p. 147.
Noel, Elisha B., assignor of one-fourth to C. O. Carlisle, Cordell, Okla. Door-securing device. No. 1,046,102; Dec. 3; Gaz. vol. 185; p. 104.
Noel, John A., Cardiff, England. Car-brake. No. 1,015,063; Jan. 16; Sp. p. 4397; Gaz. vol. 174; p. 738.
Noel, Joseph A., Logansport, Ind. Vending-machine. No. 1,042,254; Oct. 22; Gaz. vol. 183; p. 971.
Noffsinger, Henry C., Jewell, Ohio. Lubricator. No. 1,029,454; June 11; Sp. p. 3019; Gaz. vol. 179; p. 505.
Noga, Joe, Pittsburgh, Pa. Cuspidor. No. 1,030,116; June 18; Sp. p. 4457; Gaz. vol. 179; p. 770.
Nohava, Joseph, Gregory, S. D. End-gate-rod lock. No. 1,030,117; June 18; Sp. p. 4458; Gaz. vol. 179; p. 770.
Noiseless Typewriter Company, The. (See Lorenz, William A., assignor.)
Noiseless Typewriter Company, The. (See Sponsel, Charles W., assignor.)
Noisom, Ole P., and O. P. Lunde, South Bend, Ind. Electric time-switch. No. 1,045,735; Nov. 26; Gaz. vol. 184; p. 1029.
Noisom, Ole P., and H. Koontz, South Bend, Ind. Electric-circuit controller. No. 1,047,112; Dec. 10; Gaz. vol. 185; p. 493.
Nolan, Albert G., Camden, W. Va. Casing-head for oil and gas wells. No. 1,035,630; Aug. 13; Gaz. vol. 181; p. 446.
Nolan, Bernard J., Ottawa, Ontario, and J. Pharand, Hull, Quebec, Canada. Street-sweeping machine. No. 1,043,533; Nov. 5; Gaz. vol. 184; p. 175.
Nolan, Cornelius J., Toledo, Ohio. Glass-blowing machine. No. 1,048,465; Dec. 24; Gaz. vol. 185; p. 1020.
Nolan, Edward E., and W. H. Pierce, assignors to G. S. Blakeslee, Chicago, Ill. Machine for cutting up ice. No. 1,024,594; Apr. 30; Sp. p. 6159; Gaz. vol. 177; p. 1088.
Nolan, Frank J., assignor to Shur-On Trolley Guard Company, Buffalo, N. Y. Trolley-guard. No. 1,037,969; Sept. 10; Gaz. vol. 182; p. 300.
Nolan, John J., Linton, Ind. Resistance element. No. 1,038,422; Sept. 10; Gaz. vol. 182; p. 452.
Nolan, John R., New York, N. Y., assignor to The Diamond Match Company, Chicago, Ill. Machine for packing matches. No. 1,016,432; Feb. 6; Sp. p. 433; Gaz. vol. 175; p. 68.
Nolan, John R., New York, N. Y., assignor to The Diamond Match Company, Chicago, Ill. Match. No. 1,042,464; Oct. 29; Gaz. vol. 183; p. 1072.
Nolan, Johnston, Philadelphia, Pa. Valve. No. 1,014,168; Jan. 9; Sp. p. 2391; Gaz. vol. 174; p. 400.
Nolan, Julian S., Highland Park, Ill. Tile structure for reinforced-concrete floors. No. 1,021,552; Mar. 26; Sp. p. 5430; Gaz. vol. 176; p. 977.
Nolan, Julian S., Highland Park, Ill. Tile construction for concrete floors. No. 1,025,536; May 7; Sp. p. 966; Gaz. vol. 178; p. 149.
Nolan, Julian S., Highland Park, Ill. Reinforced-concrete floor. No. 1,033,826; July 30; Gaz. vol. 180; p. 1163.
Nolan, Oliver, assignor to Automatic Concrete Machinery Company, St. Paul, Minn. Tamping-machine. No. 1,036,139; Aug. 20; Gaz. vol. 181; p. 658.
Nold, Hubert, Cincinnati, Ohio. Fluid-cut-off device. No. 1,025,011; Apr. 30; Sp. p. 7022; Gaz. vol. 177; p. 1233.
Nolde & Horst Co., The. (See Robinson, Frank W., assignor.)
Nolden, Max. (See Meyer, Paul, assignor.)
Nolen, James G., assignor of one-half to F. B. Cook, Chicago, Ill., and one-half to Automatic Fire Protection Company. Call-box. No. 1,025,713; May 7; Sp. p. 1335; Gaz. vol. 178; p. 208.

Alphabetical list of patentees—Continued.

Noll, John, New York, N. Y., assignor to Continuous Rail Company, Wilmington, Del. Apparatus for working on the upper or wearing portions of compound tram-rails. No. 1,024,906; Apr. 30; Sp. p. 6808; Gaz. vol. 177; p. 1197.
Noll, John, assignor to Continuous Rail Company, New York, N. Y. Track construction and rail-clip. No. 1,026,877; May 21; Sp. p. 3931; Gaz. vol. 178; p. 678.
Noll, John, New York, N. Y., assignor to Continuous Rail Company, Wilmington, Del. Track construction and rail-clip. (Reissue.) No. 13,452; July 30; Gaz. vol. 180; p. 1372.
Noll, John, New York, N. Y., assignor to Continuous Rail Company, Wilmington, Del. Apparatus for working on the upper or wearing portions of compound tram-rails. (Reissue.) No. 13,459; Aug. 20; Gaz. vol. 181; p. 796.
Noll, John, New York, N. Y., assignor to Continuous Rail Company, Wilmington, Del. Machine for working on compound rails. No. 1,047,555; Dec. 17; Gaz. vol. 185; p. 682.
Noll, John, assignor of one-half to E. Del Mar, New York, N. Y. Sound-recording apparatus. No. 1,047,976; Dec. 24; Gaz. vol. 185; p. 854.
Noll, Joseph, assignor to C. Hammer, Buffalo, N. Y. Bottle-holder. No. 1,021,328; Mar. 26; Sp. p. 4922; Gaz. vol. 176; p. 900.
Nolte, Albert J. (See Schroeder and Nolte.)
Nolte, Frank. (See Childs, Wilbur T., assignor.)
Nolte, Frank. (See Hinnman, Robert M., assignor.)
Nolte, Willis C., assignor to Spring Gate Hinge Company, Dazey, N. D. Spring-hinge. No. 1,016,515; Feb. 6; Sp. p. 653; Gaz. vol. 175; p. 98.
Noonan, David E. J., St. Louis, Mo. Faucet. No. 1,030,322; June 25; Sp. p. 4935; Gaz. vol. 179; p. 880.
Noonen, Charles W. (See Christensen and Noonen.)
Noppe, Henry. (See Verwys and Noppe.)
Norberg, Andrew, Bowbells, N. D. Lock. No. 1,037,970; Sept. 10; Gaz. vol. 182; p. 301.
Norbury, Albert. (See Marshall and Norbury.)
Norcross Moulding Machine Company. (See Norcross, William C., assignor.)
Norcross, William C., Terre Haute, Ind. Sand-molding machine. No. 1,031,084; July 2; Gaz. vol. 180; p. 84.
Norcross, William C., assignor to Norcross Moulding Machine Company, Terre Haute, Ind. Jolting-machine. No. 1,016,086; Jan. 30; Sp. p. 6590; Gaz. vol. 174; p. 1144.
Nord, Walter G. (See Evans and Nord.)
Nordberg, Bruno V., Milwaukee, Wis. Variable-capacity pump. No. 1,032,421; July 16; Gaz. vol. 180; p. 628.
Nordberg, Bruno V., Milwaukee, Wis. Feed-water-heating system for multiple-expansion engines. No. 1,034,026; July 30; Gaz. vol. 180; p. 1236.
Nordberg, Bruno V., Milwaukee, Wis. Variable-capacity compressor. No. 1,047,977; Dec. 24; Gaz. vol. 185; p. 855.
Nordburg, William S., *et al.* (See Foster, Freling C., assignor.)
Norden, Carl S., Lynn, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Joint-machine and welt-cutter. No. 1,023,953; Apr. 23; Sp. p. 4688; Gaz. vol. 177; p. 832.
Norden, Carl S., Lynn, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for use in the manufacture of boots and shoes. No. 1,023,954; Apr. 23; Sp. p. 4691; Gaz. vol. 177; p. 832.
Norden, Carl S., Wakefield, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Lasting-machine. No. 1,029,396; June 11; Sp. p. 2905; Gaz. vol. 179; p. 485.
Norden, Carl S., Wakefield, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Assembling and heel-seat-lasting machine. No. 1,030,847; June 25; Sp. p. 6427; Gaz. vol. 179; p. 1071.
Norden, Mortimer, New York, N. Y. Electric-lamp socket. No. 1,014,169; Jan. 9; Sp. p. 2393; Gaz. vol. 174; p. 401.
Norden, William E., Shelby, Iowa. Veterinary obstetrical instrument. No. 1,048,728; Dec. 31; Gaz. vol. 185; p. 1149.
Nordenfelt, Henrik. (See Sohlman, Nordenfelt, and Morén.)
Nordenhold, William M., and B. R. Wynkoop, assignors to The Yale & Towne Manufacturing Company, Stamford, Conn. Key. No. 1,032,293; July 9; Gaz. vol. 180; p. 540.
Nordenkampf, Edgar B. von, Vienna, Austria-Hungary. Mosaic covering for walls, columns, and the like. No. 1,028,058; May 28; Sp. p. 6505; Gaz. vol. 178; p. 1113.
Nordfeldt, Charles. (See Hunkle and Nordfeldt.)
Nordin, Robert, Brookside, Minn. Convertible chair and couch. No. 1,018,074; Feb. 20; Sp. p. 4107; Gaz. vol. 175; p. 707.
Nordlund, John, Eureka, Cal. Fish-bait. No. 1,021,699; Mar. 26; Sp. p. 5691; Gaz. vol. 176; p. 1025.
Nordlund, John, Eureka, Cal. Fishing-tackle. No. 1,023,028; Apr. 9; Sp. p. 2706; Gaz. vol. 177; p. 462.
Nordqvist, Per E., Chicago, Ill., assignor to Concealed Door Check Company, Santa Barbara, Cal. Door-check. No. 1,041,853; Oct. 22; Gaz. vol. 183; p. 839.
Nordqvist, Per E., Chicago, Ill., assignor to Concealed Door Check Company, Santa Barbara, Cal. Door check and closer. No. 1,041,854; Oct. 22; Gaz. vol. 183; p. 839.
Nordqvist, Per E., Chicago, Ill., assignor to Concealed Door Check Company, Santa Barbara, Cal. Valve mechanism for door-checks. No. 1,041,855; Oct. 22; Gaz. vol. 183; p. 839.
Nordqvist, Per E., Chicago, Ill., assignor to Concealed Door Check Company, Santa Barbara, Cal. Door-check mechanism. No. 1,041,856; Oct. 22; Gaz. vol. 183; p. 839.
Nordqvist, Per E., Chicago, Ill., assignor to Concealed Door Check Company, Santa Barbara, Cal. Concealed door-check. No. 1,041,857; Oct. 22; Gaz. vol. 183; p. 840.
Nordstrom, Edward. (See Brink and Nordstrom.)
Norell, Carl A., Stockholm, Sweden. Escapement. No. 1,023,269; Apr. 16; Sp. p. 3275; Gaz. vol. 177; p. 585.
Norell, Nels O., Vancouver, British Columbia, Canada. Wire-rope hook device. No. 1,043,964; Nov. 12; Gaz. vol. 184; p. 355.
Norell, Per E. M., Chicago, Ill. Side bearing for cars. No. 1,037,511; Sept. 3; Gaz. vol. 182; p. 114.
Norling, Reinhold A., assignor to Aurora Automatic Machinery Company, Aurora, Ill. Pneumatic hammer. No. 1,027,060; May 21; Sp. p. 4378; Gaz. vol. 178; p. 743.
Norling, Reinhold A., assignor to Aurora Automatic Machinery Company, Aurora, Ill. Automatic throttle-valve-locking mechanism for pneumatic tools. No. 1,027,061; May 21; Sp. p. 4386; Gaz. vol. 178; p. 743.
Norling, Reinhold A., assignor to Aurora Automatic Machinery Company, Aurora, Ill. Pneumatic hammer. No. 1,027,062; May 21; Sp. p. 4387; Gaz. vol. 178; p. 744.
Norling, Reinhold A., assignor to Aurora Automatic Machinery Company, Aurora, Ill. Mechanical movement. No. 1,027,214; May 21; Sp. p. 4720; Gaz. vol. 178; p. 793.
Norling, Reinhold A., assignor to Aurora Automatic Machinery Company, Aurora, Ill. Shock-absorbing support for pneumatic hammers. No. 1,043,457; Nov. 5; Gaz. vol. 184; p. 148.
Norlund, Olof A., Williamsport, Pa. Nut-lock. No. 1,020,438; Mar. 19; Sp. p. 3035; Gaz. vol. 176; p. 549.
Norma Compagnie G. m. b. H. (See Hirth, Albert, assignor.)
"Norma" Company G. m. b. H. (See Kirner, Josef, assignor.)
Norman, George, assignor to The Birmingham Small Arms Company Limited, Birmingham, England. Air pistol or gun. No. 1,043,534; Nov. 5; Gaz. vol. 184; p. 175.
Norman, John. (See Wilson, John M., assignor.)
Norman, Joseph T., Wilkes-Barre, assignor to The Norman Picker Co., Nanticoke, Pa. Coal and slate separator. No. 1,025,587; May 7; Sp. p. 1080; Gaz. vol. 178; p. 167.
Norman, Lionel, assignor, by mesne assignments, to Pure Food Package Company, Boston, Mass. Machine for making paper vessels. No. 1,042,953; Oct. 29; Gaz. vol. 183; p. 1241.
Norman Picker Co., The. (See Norman, Joseph T., assignor.)
Norman, Sterling E., Attleboro, Mass. Rake. No. 1,014,250; Jan. 9; Sp. p. 2588; Gaz. vol. 174; p. 432.
Norman, Thomas W., Newton, Mass. Cord and rope winding machine. No. 1,031,366; July 2; Gaz. vol. 180; p. 181.
Norman, Thomas W., Newton, Mass. Cord or rope making machine. No. 1,031,367; July 2; Gaz. vol. 180; p. 182.
Norman, William W., Hunterville, Mo. Apparatus for impregnating wood. No. 1,038,423; Sept. 10; Gaz. vol. 182; p. 453.
Normand, Augustin, Le Havre, France. Spray-burner. No. 1,020,048; Mar. 12; Sp. p. 2217; Gaz. vol. 176; p. 382.
Normand, Emile H., *et al.* (See Normand, Ernest A., assignor.)
Normand, Ernest A., San Francisco, Cal. Clothes-pin. No. 1,044,805; Nov. 19; Gaz. vol. 184; p. 675.
Normand, Ernest A., assignor of one-half to E. H. Normand, San Francisco, Cal., and one-half to E. R. Carpenter, Washington, D. C. Paper-folding apparatus. No. 1,046,325; Dec. 3; Gaz. vol. 185; p. 184.
Normoyle, D. J. (See Hoffmann, Ernest A., assignor.)
Normoyle, Daniel J., Philadelphia, Pa. Tap-wrench. No. 1,041,858; Oct. 22; Gaz. vol. 183; p. 840.
Noro, Seikichi, Gladwyne, Pa. Attachment for horseshoes. No. 1,034,820; Aug. 6; Gaz. vol. 181; p. 141.
Norris, Almon E., Cambridge, Mass. Hoisting apparatus. No. 1,027,884; May 28; Sp. p. 6159; Gaz. vol. 178; p. 1057.
Norris, Daniel E., Robinson, Ill. Stuffing-box. No. 1,015,582; Jan. 23; Sp. p. 5506; Gaz. vol. 174; p. 941.
Norris, Francis, Jr. (See Gruver, Joseph H., assignor.)
Norris, Frederick H., Detroit, Mich. Apparatus for assembling collars. No. 1,027,355; May 21; Sp. p. 4995; Gaz. vol. 178; p. 842.
Norris, H. E., *et al.* (See Tatum, Franklin M., assignor.)

Alphabetical list of patentees—Continued.

Norris, Henry M., assignor to The Cincinnati Bickford Tool Company, Cincinnati, Ohio. Radial drill. No. 1,022,439; Apr. 9; Sp. p. 1454; Gaz. vol. 177; p. 260.
Norris, Henry M., assignor to The Cincinnati Bickford Tool Company, Cincinnati, Ohio. Automatic spindle-stop. No. 1,022,866; Apr. 9; Sp. p. 2374; Gaz. vol. 177; p. 406.
Norris, Henry M., assignor to The Cincinnati Bickford Tool Company, Cincinnati, Ohio. Gearing. No. 1,023,867; Apr. 23; Sp. p. 4481; Gaz. vol. 177; p. 803.
Norris, Henry M., assignor to The Cincinnati Bickford Tool Co., Cincinnati, Ohio. Gearing. No. 1,024,220; Apr. 23; Sp. p. 5288; Gaz. vol. 177; p. 926.
Norris, Henry M., assignor to The Cincinnati Bickford Tool Company, Cincinnati, Ohio. Friction-clutch. No. 1,030,424; June 25; Sp. p. 5155; Gaz. vol. 179; p. 918.
Norris, John T., *et al.* (See Tatum, Franklin M., assignor.)
Norris, Joseph B., assignor of one-half to F. M. Allison, Corsicana, Tex. Well-boring apparatus. No. 1,044,073; Nov. 12; Gaz. vol. 184; p. 392.
Norris, William H., Philadelphia, Pa. Barometric steam-condenser. No. 1,043,135; Nov. 5; Gaz. vol. 184; p. 30.
Norris, William P., Sistersville, W. Va. Automatic cut-off for tanks. No. 1,016,516; Feb. 6; Sp. p. 654; Gaz. vol. 175; p. 98.
Norrlander, Verner, Rockford, Ill. Grocer's cabinet. No. 1,029,709; June 18; Sp. p. 3575; Gaz. vol. 179; p. 631.
Norsk Hydro-Elektrisk Kvaelstofaktieselskab. (See Schönherr and Brode, assignors.)
Norsk Hydro-Electrisk Kvaelstofaktieselskab. (See Schönherr and Hessberger, assignors.)
North American Chemical Company. (See Thoma, Andrew, assignor.)
North Bro's M'f'g Co. (See Fegley, Thomas J., assignor.)
North Bros. M'f'g Co. (See Fegley and Leopold, assignors.)
North Bro's M'f'g Co. (See Leopold, George O., assignor.)
North, Charles E., Spokane, Wash. Disk plow. No. 1,033,727; July 23; Gaz. vol. 180; p. 1103.
North, Charles H., assignor to The North Electric Company, Cleveland, Ohio. Electrical interrupter device. No. 1,021,881; Apr. 2; Sp. p. 281; Gaz. vol. 177; p. 46.
North, Charles H., assignor to The North Electric Company, Cleveland, Ohio. Selective ringing-key. No. 1,042,954; Oct. 29; Gaz. vol. 183; p. 1241.
North, Charles R., Hartford, assignor of one-half to H. G. Newton, New Haven, Conn. Milling-machine. No. 1,040,983; Oct. 8; Gaz. vol. 183; p. 476.
North Electric Company, The. (See Clement, Edward E., assignor.)
North Electric Company, The. (See Mitchell, Jay G., assignor.)
North Electric Company, The. (See North, Charles H., assignor.)
North Electric Company, The. (See Wright, Joseph L., assignor.)
North, Fred K., Boston, Mass. Valve. No. 1,023,955; Apr. 23; Sp. p. 4697; Gaz. vol. 177; p. 833.
North, Hannah M., Oscoda, Mich. Attachment for ironing-boards. No. 1,016,848; Feb. 6; Sp. p. 1357; Gaz. vol. 175; p. 209.
North Indianapolis Cradle Works, The. (See Hewitt, Horace B., assignor.)
North and Judd Manufacturing Company. (See Anderson, John S., assignor.)
North & Judd Manufacturing Company. (See Crawford and Whiteley, assignors.)
North and Judd Manufacturing Company. (See Melchior, Joseph E., assignor.)
North and Pfeiffer Manufacturing Company, The. (See Hart, John B., assignor.)
North and Pfeiffer Manufacturing Company, The. (See Murphy, John B., assignor.)
North Pole Ice Cream Freezer Company. (See Hudson, Laura E., assignor.)
North, Raymond F., Glendive, Mont. Sprinkling-machine. No. 1,014,507; Jan. 9; Sp. p. 3113; Gaz. vol. 174; p. 517.
North, Raymond H. (See Etzold and North.)
North, Samuel N., Rising Sun, Ind. Gas-generator. No. 1,015,632; Jan. 23; Sp. p. 5612; Gaz. vol. 174; p. 960.
Northall, William H., assignor of one-half to C. W. Halsey, Evansville, Ind. Door-hinge. No. 1,013,948; Jan. 9; Sp. p. 1920; Gaz. vol. 174; p. 327.
Northall, William H., assignor of one-half to F. W. Goedeke, Evansville, Ind. Car-seal. No. 1,032,232; July 9; Gaz. vol. 180; p. 519.
Northall, William H., assignor of one-half to F. W. Goedeke, Evansville, Ind. Seal for box-cars, &c. No. 1,038,782; Sept. 17; Gaz. vol. 182; p. 612.
Northam, Robert J., Los Angeles, Cal. Paper-clip. No. 1,019,348; Mar. 5; Sp. p. 773; Gaz. vol. 176; p. 119.
Northcraft, Ambro J. (See Campbell, Edward B., assignor.)
Northcutt, John G., Kenna, N. Mex. Train-order deliverer. No. 1,032,932; July 16; Gaz. vol. 180; p. 800.
Northeast Electric Company. (See Halbleib, Edward A., assignor.)
Northern Brass Manufacturing Company. (See Westen, Charles, assignor.)
Northern Engineering Works. (See True, George E., assignor.)
Northern Insulating Company. (See Ellis, George H., assignor.)
Northern Iron Company. (See Ross, Lewis P., assignor.)
Northern Water Softener Company. (See Bartlett, Kent W., assignor.)
Northern Water Softener Company. (See Green, Walter H., assignor.)
Northey, John P., Toronto, Ontario, Canada. Sound-producing device. No. 1,016,087; Jan. 30; Sp. p. 6591; Gaz. vol. 174; p. 1145.
Northrop, H. Byrd. (See Ross, Harry B., assignor.)
Northrop, Henry B., Beverly, Mass. Urinal. No. 1,015,905; Jan. 30; Sp. p. 6193; Gaz. vol. 174; p. 1080.
Northrop, Jonas, Hopedale, Mass., assignor, by mesne assignments, to Draper Company. Filling-replenishing hopper. No. 1,014,770; Jan. 16; Sp. p. 3743; Gaz. vol. 174; p. 637.
Northrop, Jonas, Hopedale, Mass., assignor, by mesne assignments, to Draper Company. Filling-replenishing loom. No. 1,014,844; Jan. 16; Sp. p. 3915; Gaz. vol. 174; p. 664.
Northrop, Jonas, assignor to Draper Company, Hopedale, Mass. Loom-temple. No. 1,027,498; May 28; Sp. p. 5296; Gaz. vol. 178; p. 928.
Northrop, Jonas, assignor to Draper Company, Hopedale, Mass. Shuttle-check for looms. No. 1,033,263; July 23; Gaz. vol. 180; p. 952.
Northrop, Jonas, assignor to Draper Company, Hopedale, Mass. Take-up mechanism for looms. No. 1,035,808; Aug. 13; Gaz. vol. 181; p. 506.
Northrop, Jonas, Hopedale, Mass., assignor, by mesne assignments, to Draper Company. Warp stop-motion for looms. No. 1,045,169; Nov. 26; Gaz. vol. 184; p. 828.
Northrop, Jonas, Hopedale, Mass., assignor, by mesne assignments, to Draper Company. Warp stop-motion for looms. No. 1,045,170; Nov. 26; Gaz. vol. 184; p. 829.
Northrup, Edwin F., Philadelphia, Pa., assignor to Leeds and Northrup Company. Control apparatus. No. 1,022,498; Apr. 9; Sp. p. 1567; Gaz. vol. 177; p. 281.
Northrup, Elmer C., San Francisco, Cal. Box-nailing machine. No. 1,037,299; Sept. 3; Gaz. vol. 182; p. 40.
Northrup, Elmer C., assignor to Automatic Machine Company, San Francisco, Cal. Table mechanism for box-making machines. No. 1,033,191; July 23; Gaz. vol. 180; p. 927.
Northrup, Elmer C., assignor to Automatic Machine Company, San Francisco, Cal. Table mechanism for box-making machines. No. 1,048,201; Dec. 24; Gaz. vol. 185; p. 930.
Northrup, Le Roy, *et al.* (See Melling, George, assignor.)
Northrup, Le Roy, *et al.* (See Melling, Herman, assignor.)
Northum, Elijah M., Stephens, Ark. Registering device for telephone systems. No. 1,018,981; Feb. 27; Sp. p. 6103; Gaz. vol. 175; p. 1049.
Northwestern Barb Wire Company. (See Dillon, John M., assignor.)
Northwestern Expanded Metal Company. (See Arey, Fred C., assignor.)
Northwestern Knitting Company. (See Chatfield, Franklin, assignor.)
Norton, B. W., *et al.*, trustees. (See Converse, Newton B., assignor.)
Norton, Bertram, Stourbridge, England. Conveyer. No. 1,041,507; Oct. 15; Gaz. vol. 183; p. 685.
Norton, Britton H., Bennettsville, N. Y. Spoke for vehicle-wheels. No. 1,043,346; Nov. 5; Gaz. vol. 184; p. 108.
Norton, Charles H., assignor to Norton Grinding Company, Worcester, Mass. Multiple steady-rest for grinding-machines. No. 1,045,876; Dec. 3; Gaz. vol. 185; p. 28.
Norton, Charles H., assignor to Norton Grinding Company, Worcester, Mass. Cylindrical grinding-machine. No. 1,045,877; Dec. 3; Gaz. vol. 185; p. 28.
Norton, Charley C., and J. Pratt, Champaign, Ill. Hinge. No. 1,046,486; Dec. 10; Gaz. vol. 185; p. 277.
Norton Company. (See Hall, Samuel F., assignor.)
Norton Company. (See Saunders, Lewis E., assignor.)
Norton, Edwin, Paget, Bermuda, and B. H. Larkin, Chicago, Ill., assignors to Continental Can Company, Baltimore, Md. Can-nozzle. No. 1,017,451; Feb. 13; Sp. p. 2717; Gaz. vol. 175; p. 457.
Norton, Edwin K., New York, N. Y. Sheet-feeding mechanism for tinning-pots. No. 1,045,878; Dec. 3; Gaz. vol. 185; p. 28.
Norton, Eugene E., and A. U. Langenegger. Bridgeport, Conn. Ironing-machine. No. 1,034,139; July 30; Gaz. vol. 180; p. 1274.
Norton, Francis M., and B. C. H. Simpson, Knoxville, Ky. Draft appliance. No. 1,043,347; Nov. 5; Gaz. vol. 184; p. 108.
Norton, George B., Osceola, Iowa. Automatic water-regulator for heaters. No. 1,046,215; Dec. 3; Gaz. vol. 185; p. 144.
Norton Grinding Company. (See Norton, Charles H., assignor.)
Norton, John W., Lockney, and P. N. Sumrall, Quitaque, Tex. Spoke-tightener. No. 1,028,379; June 4; Sp. p. 690; Gaz. vol. 179; p. 105.

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Norton, Lionel W. (See Greene and Norton.)
Norton, Lowell P., Arden, Nev. Pump-operating mechanism. No. 1,018,583; Feb. 27; Sp. p. 5264; Gaz. vol. 175; p. 914.
Norton, Moses G., San Francisco, Cal. Pin. No. 1,047,556; Dec. 17; Gaz. vol. 185; p. 683.
Norton, William L., Boston, Mass. Casing-in machine for books. (Reissue.) No. 13,412; Apr. 30; Sp. p. 7241; Gaz. vol. 177; p. 1269.
Norviel, Levi A., and J. T. Compton, Pixley, Cal. Land leveling and checking apparatus. No. 1,044,414; Nov. 12; Gaz. vol. 184; p. 508.
Norwalk Lock Company. (See Rose, Edward, assignor.)
Norwich Automatic Feeder Co., The. (See Enos, Frank, Jr., assignor.)
Norwood, Elise R., San Francisco, Cal. Ribbon-clip for belt-buckles. No. 1,020,840; Mar. 19; Sp. p. 3908; Gaz. vol. 176; p. 683.
Norwood, Elise R., San Francisco, Cal. Water-bag retainer. No. 1,025,012; Apr. 30; Sp. p. 7023; Gaz. vol. 177; p. 1234.
Norwood, Fred E., Chicago, Ill. Suspension-rack. No. 1,035,895; Aug. 20; Gaz. vol. 181; p. 574.
Norwood, Harry Y., Rochester, N. Y. Electric singeing instrument. No. 1,020,439; Mar. 19; Sp. p. 3036; Gaz. vol. 176; p. 549.
Nosworthy, William H., and S. J. Prescott, Camberwell, London, England. Non-refillable bottle or like vessel. No. 1,036,889; Aug. 27; Gaz. vol. 181; p. 945.
Nothacker, Albert J. (See Paulson, Charles J., assignor.)
Nothaft, William. (See Harrison, George R., assignor.)
Nothaft, William, and G. R. Harrison, Philadelphia, Pa. Fire-escape. No. 1,032,294; July 9; Gaz. vol. 180; p. 540.
Notman, Robert L., assignor to McKinnon Dash Company, Buffalo, N. Y. Hose-reel. No. 1,048,863; Dec. 31; Gaz. vol. 185; p. 1196.
Novak, James, Chicago, Ill. Variable transmission-gearing. No. 1,036,690; Aug. 27; Gaz. vol. 181; p. 880.
Novelty Incandescent Lamp Company. (See Erskine, Bernard G., assignor.)
Novelty Manufacturing Company. (See Boeck, Charles G., assignor.)
Novelty Manufacturing Company, The. (See Fitzsimons, Oscar S., assignor.)
Novelty Selling Company. (See Marshall, Edward C. and E., assignors.)
Novick, Abraham. (See Van Riper and Novick.)
Novick, Abraham, Brooklyn, N. Y., assignor, by mesne assignments, to Bright Envelope Company. Envelop-machine. No. 1,039,786; Oct. 1; Gaz. vol. 183; p. 40.
Novitski, John J., Oshkosh, Wis. Split pulley. No. 1,018,263; Feb. 20; Sp. p. 4497; Gaz. vol. 175; p. 772.
Novitsky, Anthony. (See Cress, Novitsky, and Greenbrier.)
Novotny, John N., Badger, Minn. Safety neck-yoke. No. 1,026,997; May 21; Sp. p. 4223; Gaz. vol. 178; p. 720.
Novotny, John N., Badger, Minn. Neck-yoke safety attachment. No. 1,041,150; Oct. 15; Gaz. vol. 183; p. 565.
Novy, Joseph M., St. Louis, Mo. Rotary explosive-engine. No. 1,038,424; Sept. 10; Gaz. vol. 182; p. 453.
Nowak, Adolf A. K., Bous-on-the-Saar, Germany. Rolling-mill. No. 1,013,429; Jan. 2; Sp. p. 748; Gaz. vol. 174; p. 118.
Nowak, Adolf A. K., Bous-on-the-Saar, Germany. Rolling-mill. No. 1,024,485; Apr. 23; Sp. p. 5838; Gaz. vol. 177; p. 1015.
Nowak, Adolf A. K., Bous-on-the-Saar, Germany. Tube-rolling mill. No. 1,036,309; Aug. 20; Gaz. vol. 181; p. 717.
Nowak, Adolf A. K., Bous-on-the-Saar, Germany. Brake device for rolling-mills. No. 1,041,661; Oct. 15; Gaz. vol. 183; p. 735.
Nowak, Carl A., assignor to A. G. Wackenreuter, Chicago, Ill. Cleaning compound. No. 1,038,783; Sept. 17; Gaz. vol. 182; p. 613.
Nowak, Max, Elizabeth, N. J. Ash-sifting device. No. 1,034,926; Aug. 6; Gaz. vol. 181; p. 175.
Nowak, Ottokar H., Chicago, Ill., assignor to F. Lebreil and R. Desgeorge, Lyon, France. Producing plastic substances from milk. No. 1,031,814; July 9; Gaz. vol. 180; p. 378.
Nowell, Thomas W., Schenectady, N. Y., assignor to General Electric Company. Motor-controlling device. No. 1,041,859; Oct. 22; Gaz. vol. 183; p. 840.
Nowicki, John M. (See Smeja, Stephen, assignor.)
Nowship, William. (See Madson, Christenson, Ingbretson, and Nowship.)
Noyes, Edward P., Winchester, Mass. Fluid-regulator. No. 1,013,214; Jan. 2; Sp. p. 263; Gaz. vol. 174; p. 43.
Noyes, Edward P., Winchester, Mass. Constant-pressure internal-combustion apparatus. No. 1,013,609; Jan. 2; Sp. p. 1116; Gaz. vol. 174; p. 180.
Noyes, Edward P., Winchester, Mass. Automatic regulation for carbureters. No. 1,037,833; Sept. 3; Gaz. vol. 182; p. 218.
Noyes, Edward P., Winchester, Mass. Vacuum fuel-feeder and carbureter. No. 1,041,662; Oct. 15; Gaz. vol. 183; p. 736.
Noyes, Edward P., Winchester, Mass., assignor, by mesne assignments, to C. P. Power Company, Newark, N. J. Fluid-pressure valve. No. 1,013,213; Jan. 2; Sp. p. 257; Gaz. vol. 174; p. 43.
Noyes, Hazlehurst R., Savannah, Ga. Rotary gas-engine. No. 1,016,764; Feb. 6; Sp. p. 1189; Gaz. vol. 175; p. 183.
Noyes, Henry F., assignor to The Black Rock Machine Company, Bridgeport, Conn. Combined friction and jaw clutch. No. 1,024,595; Apr. 30; Sp. p. 6161; Gaz. vol. 177; p. 1088.
Noyes, La Verne W., Chicago, Ill. Windmill. No. 1,022,205; Apr. 2; Sp. p. 960; Gaz. vol. 177; p. 153.
Noyes, La Verne W., Chicago, Ill. Flange-forming machine. No. 1,040,391; Oct. 8; Gaz. vol. 183; p. 272.
Nu-Vo M'f'g. Co. (See Folger, Henry C., assignor.)
Nuckolls, James N., Sulphur Rock, Ark. Bolster-block. No. 1,036,310; Aug. 20; Gaz. vol. 181; p. 718.
Nuckols, Claude C., and F. Pruyn, Albany, N. Y., assignors to Consolidated Car Heating Company. Electrical resistance. No. 1,019,075; Mar. 5; Sp. p. 146; Gaz. vol. 176; p. 24.
Nuebling, Edward, New York, N. Y. Measuring apparatus. No. 1,035,225; Aug. 13; Gaz. vol. 181; p. 306.
Nuernberger, Philip G., and G. Rettig, Jr., assignors to Universal Type Making Machine Company, Chicago, Ill. Matrix-holder. No. 1,016,433; Feb. 6; Sp. p. 437; Gaz. vol. 175; p. 69.
Nuese, Karl. (See Meyer and Nuese.)
Nugent, William W., Chicago, Ill. Filter. No. 1,044,074; Nov. 12; Gaz. vol. 184; p. 392.
Nuhring, Charles, Cincinnati, Ohio. Hose-support. No. 1,045,069; Nov. 19; Gaz. vol. 184; p. 766.
Nulle, Victor H., Anderson, Ind. Point-rail-locking device. No. 1,021,725; Mar. 26; Sp. p. 5749; Gaz. vol. 176; p. 1032.
Nullmeyer, Frank H., and C. A. Porath, Struthers, assignors to Youngstown Sheet & Tube Company, Youngstown, Ohio. Wire-fence machine. No. 1,035,809; Aug. 13; Gaz. vol. 181; p. 506.
Nullmeyer, Frank H., and C. A. Porath, Struthers, assignors to The Youngstown Sheet & Tube Company, Youngstown, Ohio. Wire-cutting machine. No. 1,036,311; Aug. 20; Gaz. vol. 181; p. 718.
Nunamacher, William H., Newark, N. J. Rail-joint. No. 1,039,997; Oct. 1; Gaz. vol. 183; p. 109.
Nungesser Electric Battery Company, The. (See Nungesser, Philip P., assignor.)
Nungesser, Philip P., assignor to The Nungesser Electric Battery Company, Cleveland, Ohio. Spiral coil for fastening wire-terminals. No. 1,023,270; Apr. 16; Sp. p. 3276; Gaz. vol. 177; p. 585.
Nungesser, Philip P., assignor to The Nungesser Electric Battery Company, Cleveland, Ohio. Fastening device for wire-terminals. No. 1,023,271; Apr. 16; Sp. p. 3277; Gaz. vol. 177; p. 585.
Nunn, Alfred W., *et al.*, trustees. (See Nunn, Alfred W., assignor.)
Nunn, Alfred W., assignor to A. W. Nunn, Cambridge, and C. D. Lyford, Watertown, Mass., trustees. Machine for automatically playing pianos and similar instruments. No. 1,014,606; Jan. 9; Sp. p. 3313; Gaz. vol. 174; p. 550.
Nunn, John W. (See Roberts and Nunn.)
Nunnery, J. A. (See Metcalf, George H., assignor.)
Nurnberger, George H., Welga, Ill. Rail-spike. No. 1,042,955; Oct. 29; Gaz. vol. 183; p. 1242.
Nürnberger Metall- und Lackierwarenfabrik vormals Gebrüder Bing, Aktiengesellschaft. (See Müller, Heinrich, assignor.)
Nuss, William W., Towanda, Pa. Machine for painting, varnishing, filling, or otherwise coating boards or other pieces of material. No. 1,026,921; May 21; Sp. p. 4042; Gaz. vol. 178; p. 693.
Nusser, Peter, assignor to The Rickersberg Brass Company, Cleveland, Ohio. Quick-action faucet or bib-cock. No. 1,036,312; Aug. 20; Gaz. vol. 181; p. 719.
Nutt, Lester E., Moline, Ill., assignor to Velie Carriage Company. Shifting-rail construction. No. 1,021,553; Mar. 26; Sp. p. 5431; Gaz. vol. 176; p. 978.
Nutt, William G., Jonesboro, Ark. Oil-burner. No. 1,025,013; Apr. 30; Sp. p. 7024; Gaz. vol. 177; p. 1234.
Nutter, Charles P., Boston, Mass. Buckle. No. 1,020,925; Mar. 19; Sp. p. 4069; Gaz. vol. 176; p. 711.
Nutter, Warren H., St. Louis, Mo. Soot-blower for steam-boilers. No. 1,032,495; July 16; Gaz. vol. 180; p. 653.
Nutting, Granville, Jersey City, N. J., assignor to The Keystone Watch Case Company, Philadelphia, Pa. Watch-movement. No. 1,041,335; Oct. 15; Gaz. vol. 183; p. 628.
Nutting, Perley G., Washington, D. C. Colorimeter. No. 1,026,878; May 21; Sp. p. 3933; Gaz. vol. 178; p. 679.
Nuubson, Ole C., Duluth, Minn. Baking apparatus. No. 1,031,085; July 2; Gaz. vol. 180; p. 84.
Nya Aktiebolaget Stockholms Vapenfabrik. (See Kjellman, Rudolf H., assignor.)
Nyberg, Carl, St. Paul, Minn. Skee-form protector. No. 1,045,594; Nov. 26; Gaz. vol. 184; p. 978.
Nyboer, Arend R., Edam, Netherlands, assignor to G. H. Diehl, Jr., New York, N. Y. Apparatus for stowing and launching ships' boats. No. 1,040,741; Oct. 8; Gaz. vol. 183; p. 396.

Alphabetical list of patentees—Continued.

Nyč, Frederick F., Kerrville, Tex. Film developing, fixing, and washing apparatus. No. 1,031,459; July 2; Gaz. vol. 180; p. 212.
Nye, Charles A., Minneapolis, Minn. Fumigating apparatus. No. 1,031,145; July 2; Gaz. vol. 180; p. 105.
Nye, John, Montpelier, Ohio. Window-screen. No. 1,016,088; Jan. 30; Sp. p. 6593; Gaz. vol. 174; p. 1145.
Nye, Robert, Grass Valley, Cal. Rat-trap. No. 1,026,362; May 14; Sp. p. 2823; Gaz. vol. 178; p. 467.
Nye Tool and Machine Works, The. (See Benson, Charles T., assignor.)
Nye, William E., and J. E. Cram, Highland, Cal., assignors of one-third to H. A. Johnston, Redlands, Cal. Hydrocarbon disk cultivator. No. 1,014,899; Jan. 16; Sp. p. 4035; Gaz. vol. 174; p. 682.
Nyegaard & Co. (See Dahle, Carl W., assignor.)
Nygaard, Knut S. (See Jacobsen and Nygaard.)
Nygreen, Theodore W., Bellingham, Wash. Safe. No. 1,013,430; Jan. 2; Sp. p. 750; Gaz. vol. 174; p. 118.
Nygren, Bror A., Minneapolis, Minn. Folding umbrella. No. 1,045,595; Nov. 26; Gaz. vol. 184; p. 979.
Nyilas, Francis, New York, N. Y. Stability device. No. 1,032,233; July 9; Gaz. vol. 180; p. 520.
Nylander, John, Muskegon, Mich. Hose-coupling. No. 1,029,819; June 18; Sp. p. 3809; Gaz. vol. 179; p. 668.
Nylund, Hanna B., Stambaugh, Mich. Window-shade and curtain-pole supporting bracket. No. 1,035,995; Aug. 20; Gaz. vol. 181; p. 606.
Nylund, Hanna B., Stambaugh, Mich. Curtain-pole. No. 1,039,787; Oct. 1; Gaz. vol. 183; p. 40.
Nyström, Carl W., Karlstad, Sweden. Apparatus for automatically recording music. No. 1,018,982; Feb. 27; Sp. p. 6105; Gaz. vol. 175; p. 1049.
Nyström, Carl W., Karlstad, Sweden. Automatic keyboard-player. No. 1,045,318; Nov. 26; Gaz. vol. 184; p. 880.
Nyström, Carl W., Karlstad, Sweden. Apparatus for recording and reproducing music. No. 1,046,487; Dec. 10; Gaz. vol. 185; p. 278.
Nystrom, Martin, Chicago, Ill. Piano-agraffe. No. 1,026,922; May 21; Sp. p. 4045; Gaz. vol. 178; p. 694.
Nyswander, Jacob, Puente, Cal. Wave-motor. No. 1,032,343; July 9; Gaz. vol. 180; p. 557.
Nyswander, Jacob, Puente, Cal. Wave-motor. No. 1,033,923; July 30; Gaz. vol. 180; p. 1198.
Nyswonger, Elijah, Hanford, Cal. Cling-peach-pitting machine. No. 1,042,590; Oct. 29; Gaz. vol. 183; p. 1116.
O. Armleder Company, The. (See Dolph, Otto W., assignor.)
O. A. Miller Treeing Machine Company. (See Batchelder, Charles A., assignor.)
O. A. Miller Treeing Machine Company. (See Eddins, Sextus A., assignor.)
O. A. Miller Treeing Machine Company. (See Goding, Edwin L., assignor.)
O. A. Miller Treeing Machine Company. (See Hansen, John S., assignor.)
O. K. Novelty Company. (See Hardy, Lewis W., assignor.)
O'Bannon, Maurice, Glenarm, Ky. Corn-thinner. No. 1,044,806; Nov. 19; Gaz. vol. 184; p. 675.
O'Brien, Adelaide E., St. Louis, Mo. Antifriction device. No. 1,046,841; Dec. 10; Gaz. vol. 185; p. 402.
O'Brien, Arthur H., Denver, Colo. Support for two-wheeled vehicles. No. 1,044,232; Nov. 12; Gaz. vol. 184; p. 445.
O'Brien, Arthur P., Mount Vernon, N. Y. Spinning-top. No. 1,026,112; May 14; Sp. p. 2264; Gaz. vol. 178; p. 382.
O'Brien, Frank, assignor to The Lewis Spring & Axle Company, Jackson, Mich. Brake. No. 1,022,639; Apr. 9; Sp. p. 1873; Gaz. vol. 177; p. 327.
O'Brien, Frank C., Denver, Colo., and F. C. O'Brien, Prescott, Ariz. Ore-separator. No. 1,031,285; July 2; Gaz. vol. 180; p. 154.
O'Brien, Frederick C. (See O'Brien, Frank C. and F. C.)
O'Brien, James F., Chicago, Ill. Explosive. No. 1,021,882; Apr. 2; Sp. p. 284; Gaz. vol. 177; p. 46.
O'Brien, James F., Chicago, Ill. Explosive. No. 1,028,950; June 11; Sp. p. 1917; Gaz. vol. 179; p. 331.
O'Brien, James F., Chicago, Ill. Explosive. No. 1,028,951; June 11; Sp. p. 1918; Gaz. vol. 179; p. 332.
O'Brien, James F., Chicago, Ill. Explosive. No. 1,028,952; June 11; Sp. p. 1920; Gaz. vol. 179; p. 332.
O'Brien, James F., Chicago, Ill. Explosive. No. 1,037,300; Sept. 3; Gaz. vol. 182; p. 41.
O'Brien, James F., Chicago, Ill. Explosive. No. 1,038,187; Sept. 10; Gaz. vol. 182; p. 371.
O'Brien, James F., Chicago, Ill. Explosive. No. 1,038,188; Sept. 10; Gaz. vol. 182; p. 371.
O'Brien, John A., Seattle, Wash. Life-preserver. No. 1,026,172; May 14; Sp. p. 2380; Gaz. vol. 178; p. 401.
O'Brien, John F. (See Bowdle and O'Brien.)
O'Brien, John F., *et al.* (See O'Neill, Henry G., assignor.)
O'Brien, John J., assignor of one-half to I. A. Rose, New York, N. Y. Perpetual calendar. No. 1,029,455; June 11; Sp. p. 3020; Gaz. vol. 179; p. 505.
O'Brien, Joseph, Jeannette, Pa. Rail-joint. No. 1,034,140; July 30; Gaz. vol. 180; p. 1274.
O'Brien, Joseph F., Brockton, Mass. Furniture-caster. No. 1,020,654; Mar. 19; Sp. p. 3505; Gaz. vol. 176; p. 619.
O'Brien, Michael J. (See Brunt, Thomas A., assignor.)
O'Brien, Michael W., Rochester, N. Y. Blank-pressing machine. No. 1,034,493; Aug. 6; Gaz. vol. 181; p. 31.
O'Brien, Patrick, *et al.* (See Jennings, Jarvis S., Jr., assignor.)
O'Brien, Patrick J., Elyria, Ohio. Tool-directing machine. No. 1,032,933; July 16; Gaz. vol. 180; p. 800.
O'Brien, Thomas, Philadelphia, Pa. Insulated joint for railway-rails. No. 1,017,311; Feb. 13; Sp. p. 2398; Gaz. vol. 175; p. 408.
O'Brien, Thomas F., Highmore, S. D. Spring-felly automobile-wheel. No. 1,013,949; Jan. 9; Sp. p. 1923; Gaz. vol. 174; p. 327.
O'Brien, Vincent J., and R. C. Awkerman, assignors to The Standard Rock Drill Company, Denver, Colo. Valve mechanism for pneumatic tools. No. 1,020,619; Mar. 19; Sp. p. 3432; Gaz. vol. 176; p. 607.
O'Brien, William, Clairton, Pa. Folding umbrella. No. 1,028,262; June 4; Sp. p. 434; Gaz. vol. 179; p. 63.
O'Brien, William M., Salt Lake City, Utah. Separating apparatus. No. 1,028,131; June 4; Sp. p. 85; Gaz. vol. 179; p. 17.
O'Bryan, George W., Cambria, Va. Crushing and grinding mill. No. 1,019,828; Mar. 12; Sp. p. 1753; Gaz. vol. 176; p. 307.
O'Bryan, Gory, Louisville, Ky. Flying-machine. No. 1,038,633; Sept. 17; Gaz. vol. 182; p. 561.
O'Bryan, Gory, Louisville, Ky. Spring-motor. No. 1,040,742; Oct. 8; Gaz. vol. 183; p. 396.
O'Byrne, Joseph F., Jarbidge, Nev. Noiseless case for noisy machines. No. 1,042,957; Oct. 29; Gaz. vol. 183; p. 1242.
O'Connell, Daniel D., New York, N. Y. Automatic releasing-gear. No. 1,013,510; Jan. 2; Sp. p. 915; Gaz. vol. 174; p. 146.
O'Connell, James P., Crompton, R. I., assignor of one-half to E. L. Merrow, Malden, Mass. Sweeper. No. 1,021,161; Mar. 26; Sp. p. 4575; Gaz. vol. 176; p. 841.
O'Connell, Joseph W. (See Smith, Harvey M., assignor.)
O'Coners, William, New Castle, Pa. Oiling apparatus for journals. No. 1,041,152; Oct. 15; Gaz. vol. 183; p. 566.
O'Connor, Charles A., and F. Riley, Worcester, assignors to Morse Twist Drill & Machine Company, New Bedford, Mass. Reamer. No. 1,043,965; Nov. 12; Gaz. vol. 184; p. 355.
O'Connor, James, New York, N. Y. Music-sheet-guiding device. No. 1,041,860; Oct. 22; Gaz. vol. 183; p. 841.
O'Connor, James, New York, N. Y. Tempo-regulator. No. 1,041,861; Oct. 22; Gaz. vol. 183; p. 841.
O'Connor, James, assignor to Autopiano Co., New York, N. Y. Perforated-note-sheet guide. (Reissue.) No. 13,398; Apr. 2; Sp. p. 1342; Gaz. vol. 177; p. 219.
O'Connor, James F., assignor of one-third to H. D. Walters, El Reno, Okla. Clothes-handling implement. No. 1,049,259; Dec. 31; Gaz. vol. 185; p. 1332.
O'Connor, Jennie M., Chicago, Ill., and I. G. Wier, Pittsburgh, Pa. Sanitary protecting-skirt. No. 1,037,514; Sept. 3; Gaz. vol. 182; p. 115.
O'Connor, John F., assignor to W. H. Miner, Chicago, Ill. Friction draft-gear. No. 1,017,230; Feb. 13; Sp. p. 2235; Gaz. vol. 175; p. 380.
O'Connor, John F., assignor to W. H. Miner, Chicago, Ill. Refrigerator-car door and means for operating same. No. 1,023,164; Apr. 16; Sp. p. 3053; Gaz. vol. 177; p. 547.
O'Connor, John F., assignor, by mesne assignments, to W. H. Miner, Chicago, Ill. Friction draft-rigging. No. 1,026,113; May 14; Sp. p. 2266; Gaz. vol. 178; p. 382.
O'Connor, John F., assignor to W. H. Miner, Chicago, Ill. Friction draft-rigging for railway-cars. No. 1,041,862; Oct. 22; Gaz. vol. 183; p. 842.
O'Connor, John F., assignor, by mesne assignments, to W. H. Miner, Chicago, Ill. Tandem-spring draft-rigging for railway-cars. No. 1,044,075; Nov. 12; Gaz. vol. 184; p. 392.
O'Connor, John F., assignor, by mesne assignments, to W. H. Miner, Chicago, Ill. Friction draft-rigging for railway-cars. No. 1,044,076; Nov. 12; Gaz. vol. 184; p. 393.
O'Connor, John F., assignor to W. H. Miner, Chicago, Ill. Friction draft-rigging. No. 1,044,077; Nov. 12; Gaz. vol. 184; p. 393.
O'Connor, John F., assignor to W. H. Miner, Chicago, Ill. Friction draft-rigging. No. 1,048,729; Dec. 31; Gaz. vol. 185; p. 1149.
O'Connor, John F., Chicago, Ill., assignor to C. W. Sherman, Buffalo, N. Y. Tie-plate. No. 1,026,114; May 14; Sp. p. 2267; Gaz. vol. 178; p. 383.
O'Connor, Patrick, Aberdeen, Wash. Combined shingle sawing and jointing machine. No. 1,013,431; Jan. 2; Sp. p. 751; Gaz. vol. 174; p. 119.
O'Connor, Thomas, Philadelphia, Pa. Double spiral pump. No. 1,047,436; Dec. 17; Gaz. vol. 185; p. 639.
O'Day, John, and F. Smith, Merrill, Wis. Bunk mechanism for logging and lumber cars and sleds. No. 1,034,494; Aug. 6; Gaz. vol. 181; p. 31.

Alphabetical list of patentees—Continued.

O'Donnell, John H., and W. D. Pierson, assignors, by mesne assignments, to The Waterbury Farrel Foundry and Machine Company, Waterbury, Conn. Wire-drawing machine. No. 1,025,421; May 7; Sp. p. 688; Gaz. vol. 178; p. 109.
O'Donnell, John H., and W. D. Pierson, assignors, by mesne assignments, to The Waterbury Farrel Foundry and Machine Company, Waterbury, Conn. Wire-drawing machine. No. 1,025,588; May 7; Sp. p. 1083; Gaz. vol. 178; p. 167.
O'Donnell, Thomas A., and M. Ferri, Washington, D. C. Hook and eye. No. 1,045,596; Nov. 26; Gaz. vol. 184; p. 979.
O'Donnell, William C., Plainfield, N. J. Game. No. 1,024,354; Apr. 23; Sp. p. 5534; Gaz. vol. 177; p. 970.
O'Donnell, William M. (See Paulsrud, Ole, assignor.)
O'Donohoe, Maurice P. (See Ellis and O'Donohoe.)
O'Gorman, John, assignor of forty-five one-hundredths to A. L. Dutton, San Luis Obispo, Cal. Railway road-bed. No. 1,042,255; Oct. 22; Gaz. vol. 183; p. 972.
O'Grady, William P., *et al.* (See Collins, Frank H., assignor.)
O'Hanlon, Christopher C., Logan, Utah. Combination-tool. No. 1,016,765; Feb. 6; Sp. p. 1192; Gaz. vol. 175; p. 183.
O'Hara, James. (See Kennedy and O'Hara.)
O'Hara, John H., Ithaca, N. Y. Corn husking and silking machine. No. 1,015,740; Jan. 23; Sp. p. 5839; Gaz. vol. 174; p. 995.
O'Hara, Robert. (See Bressel and O'Hara.)
O'Hara, William T., assignor of one-third to H. S. Schopf, Spokane, Wash. Mail catching and delivering device. No. 1,042,256; Oct. 22; Gaz. vol. 183; p. 972.
O'Keefe, Daniel, St. Louis, Mo. Making a composition of matter for the treatment of leather, fabrics, and the like. No. 1,020,926; Mar. 19; Sp. p. 4070; Gaz. vol. 176; p. 711.
O'Keefe, Daniel, St. Louis, Mo. Composition of matter for the treatment of leather, fabrics, and the like. No. 1,020,927; Mar. 19; Sp. p. 4071; Gaz. vol. 176; p. 711.
O'Leary, Frank J., assignor to Penberthy Injector Company, Detroit, Mich. Ejector. No. 1,017,792; Feb. 20; Sp. p. 3455; Gaz. vol. 175; p. 607.
O'Leary, Humphrey, San Francisco, Cal. Valve. No. 1,013,432; Jan. 2; Sp. p. 757; Gaz. vol. 174; p. 119.
O'Leary, John J., Healdsburg, Cal. Gas-engine starter. No. 1,017,453; Feb. 13; Sp. p. 2719; Gaz. vol. 175; p. 457.
O'Loughlin, George, assignor of one-half to L. J. Tobin, Waterbury, Conn. Ball-bearing. No. 1,045,736; Nov. 26; Gaz. vol. 184; p. 1029.
O'Malley, John F., Avoca, Pa. Combination-tool. No. 1,015,205; Jan. 16; Sp. p. 4658; Gaz. vol. 174; p. 786.
O'Meara, Matthew M., and T. W. Leahy, Superior, Wis. Combined box-lid and label holder. No. 1,016,434; Feb. 6; Sp. p. 438; Gaz. vol. 175; p. 69.
O'Neal, Demarian L., Valdosta, Ga. Turpentine-cup. No. 1,019,183; Mar. 5; Sp. p. 392; Gaz. vol. 176; p. 62.
O'Neal, John E. (See Port, O'Neal, and Motz.)
O'Neil, Charles. (See Saunders and O'Neil.)
O'Neil, Charley, assignor of one-half to J. W. Evans, Point Marion, Pa. Gas-burner. No. 1,030,118; June 18; Sp. p. 4459; Gaz. vol. 179; p. 770.
O'Neil, John. (See Haynes, Charles M., assignor.)
O'Neil, Philip J. (See Fisher and O'Neil.)
O'Neil, William, near Los Angeles, E. J. Schneider, Hollywood, and T. N. Kellett, assignors to Amalgamated Oil Company, Los Angeles, Cal. Sucker-rod elevator. No. 1,024,017; Apr. 23; Sp. p. 4807; Gaz. vol. 177; p. 854.
O'Neill, Charles J. (See Lanham, Ira C., assignor.)
O'Neill, Frank, Jr., assignor of one-sixth to F. O'Neill, Sr., and three-sixths to G. Alexander, Paris, Ky. Hemp-brake. No. 1,017,582; Feb. 13; Sp. p. 2953; Gaz. vol. 175; p. 499.
O'Neill, Frank, Sr., *et al.* (See O'Neill, Frank, Jr., assignor.)
O'Neill, Henry G., assignor of one-fourth to W. E. Thompson and one-fourth to J. F. O'Brien, Detroit, Mich. System of starting internal-combustion-engine-driven motor-vehicles. No. 1,047,114; Dec. 10; Gaz. vol. 185; p. 494.
O'Neill, John T., Philadelphia, Pa. Safety-brake. No. 1,028,596; June 4; Sp. p. 1161; Gaz. vol. 179; p. 177.
O'Neill, John W. (See Towne and O'Neill.)
O'Neill, Lewis R., Montclair, N. J. Explosive-gas engine. No. 1,021,791; Apr. 2; Sp. p. 72; Gaz. vol. 177; p. 15.
O'Neill, Rex H., Chicago, Ill. Scraper and leveler. No. 1,016,228; Jan. 30; Sp. p. 6846; Gaz. vol. 174; p. 1189.
O'Neill, Sheila, London, England. Flying-machine. No. 1,048,338; Dec. 24; Gaz. vol. 185; p. 976.
O'Neill, William N., and H. Parker, Jr., Columbus, Ohio. Yarn-dampening device. No. 1,015,705; Jan. 23; Sp. p. 5772; Gaz. vol. 174; p. 984.
O'Quinn, Bryant J., Kissimmee, Fla. Ice-sealing means. No. 1,043,458; Nov. 5; Gaz. vol. 184; p. 148.
O'Quinn, Leonard C. (See O'Quinn, Silas E. and L. C.)
O'Quinn, Silas E. and L. C., Jesup, Ga. Turpentine-gatherer. No. 1,035,382; Aug. 13; Gaz. vol. 181; p. 363.
O'Rear, Jackson M., Birmingham, Ala. Resilient tire. No. 1,042,592; Oct. 29; Gaz. vol. 183; p. 1117.
O'Reilly, Michael E., Portland, Oreg. Suspensory. No. 1,023,478; Apr. 16; Sp. p. 3674; Gaz. vol. 177; p. 651.
O'Roake, James C., Newton, Iowa. Seed-corn stringer. No. 1,034,287; July 30; Gaz. vol. 180; p. 1326.
O'Rourke, Daniel J. (See Patterson, John F., assignor.)
O'Rourke, John F., New York, N. Y. Constructing foundations. No. 1,038,635; Sept. 17; Gaz. vol. 182; p. 561.
O'Rourke, John F., New York, N. Y. Tunnel or conduit lining. No. 1,043,348; Nov. 5; Gaz. vol. 184; p. 108.
O'Rourke, William F., Philadelphia, Pa. Fender. No. 1,031,957; July 9; Gaz. vol. 180; p. 427.
O'Shea, Dennis C., Chicago, Ill., assignor to A. G. Spalding & Bros., Jersey City, N. J. Base-ball mask. No. 1,016,029; Jan. 30; Sp. p. 6457; Gaz. vol. 174; p. 1123.
O'Shea, Jeremiah, Philadelphia, Pa. Anticreeping device for ties. No. 1,038,975; Sept. 17; Gaz. vol. 182; p. 678.
O'Sullivan, Annie, New York, N. Y. Rail. No. 1,034,928; Aug. 6; Gaz. vol. 181; p. 176.
Oak, Peter, Laurel, Nebr. Grain-door for freight-cars. No. 1,018,773; Feb. 27; Sp. p. 5660; Gaz. vol. 175; p. 978.
Oakes, Ben, Detroit, Mich. Water-closet bend. No. 1,022,044; Apr. 2; Sp. p. 626; Gaz. vol. 177; p. 99.
Oakes, Ben, Detroit, Mich. Floor connection for sanitary plumbing-fixtures. No. 1,042,465; Oct. 29; Gaz. vol. 183; p. 1072.
Oakes, John L., Kimberly, Idaho. Pump. No. 1,019,272; Mar. 5; Sp. p. 581; Gaz. vol. 176; p. 93.
Oakes, Travis, and D. Resslar, Mount Vernon, Ohio, assignors to Pittsburgh Plate Glass Company, Pittsburgh, Pa. Glass-drawing apparatus. No. 1,042,956; Oct. 29; Gaz. vol. 183; p. 1242.
Oakes, William H., Indianapolis, Ind. Fan. No. 1,023,272; Apr. 16; Sp. p. 3279; Gaz. vol. 177; p. 585.
Oakley, Clifford H., Trenton, N. J. Matting. No. 1,037,512; Sept. 3; Gaz. vol. 182; p. 115.
Oakley, Harold H. (See Stuart and Oakley.)
Oakley, William E., Millbury, Mass. Apparatus for burning liquid fuel. No. 1,024,596; Apr. 30; Sp. p. 6163; Gaz. vol. 177; p. 1088.
Oaks, William A. C., Reading, Pa. Apple-paring machine. No. 1,039,998; Oct. 1; Gaz. vol. 183; p. 109.
Oat, William H. (See Raughtigan, Michael, assignor.)
Oatman, Clarence E., Brookline, assignor of one-half to G. D. Owen, Battlefield, Mo. Tire-bolt wrench. No. 1,021,424; Mar. 26; Sp. p. 5158; Gaz. vol. 176; p. 933.
Oatman, Paul B., New York, N. Y., assignor to Ideal Opening Die Company. Screw-cutting die. No. 1,045,597; Nov. 26; Gaz. vol. 184; p. 979.
Oatman, Paul B., New York, N. Y., assignor to Ideal Opening Die Company. Screw-cutting die. No. 1,045,598; Nov. 26; Gaz. vol. 184; p. 980.
Obenauf, Charles, North Lima, Ohio. Combined fastening device and fence-post. No. 1,044,231; Nov. 12; Gaz. vol. 184; p. 444.
Ober Manufacturing Company, The. (See Wait, George E., assignor.)
Oberg, Carl J., Christiania, Norway. Sewing-machine for leather. No. 1,037,513; Sept. 3; Gaz. vol. 182; p. 115.
Oberg, Emil L., New York, N. Y. Can-opening device. No. 1,048,202; Dec. 24; Gaz. vol. 185; p. 930.
Oberge, Ethel A. (See Oberge, George F., assignor.)
Oberge, George F., assignor, by mesne assignments, to E. A. Oberge, Haverford, Pa. Rotary pump. No. 1,041,151; Oct. 15; Gaz. vol. 183; p. 565.
Oberländer, Gustave. (See Tanne, Julius, assignor.)
Obiols, Frank, Winnemucca, Nev. Trap. No. 1,031,728; July 9; Gaz. vol. 180; p. 347.
Oblein, Henry. (See Oblein, James and H.)
Oblein, James and H., Lynn, Mass. Puzzle-bank. No. 1,029,820; June 18; Sp. p. 3811; Gaz. vol. 179; p. 669.
Ocain, George E., Oak Park, Ill. Auto or gas engine starter and indicator. No. 1,025,762; May 7; Sp. p. 1443; Gaz. vol. 178; p. 226.
Ochiltree, Clarence G., Seattle, Wash. Lamp-cord adjuster. No. 1,015,828; Jan. 30; Sp. p. 6019; Gaz. vol. 174; p. 1052.
Ochs, Adolph C., Springfield, Minn. Silo. No. 1,032,765; July 16; Gaz. vol. 180; p. 746.
Octagon Die and Tool Company, The. (See Cochran, Clarence S., assignor.)
Octigan, Thomas C., Chicago, Ill. Horseshoe. No. 1,032,563; July 16; Gaz. vol. 180; p. 675.
Ocumpaugh, Charles H., Rochester, N. Y. Voting-machine. No. 1,013,679; Jan. 2; Sp. p. 1304; Gaz. vol. 174; p. 204.
Ocumpaugh, Charles H., Rochester, N. Y. Voting-machine. No. 1,013,680; Jan. 2; Sp. p. 1320; Gaz. vol. 174; p. 205.
Ocumpaugh, Charles H., Rochester, N. Y. Razor. No. 1,013,805; Jan. 2; Sp. p. 1563; Gaz. vol. 174; p. 248.
Ocumpaugh, Charles H., Rochester, N. Y. Independent-voting device. No. 1,013,853; Jan. 2; Sp. p. 1686; Gaz. vol. 174; p. 266.
Oddur Manufacturing Company. (See Sigurdsson, Oddur V., assignor.)
Odell, V. H., *et al.* (See Barrickman and Holt, assignors.)
Oden, James R., Blue Ridge, Tex. Lock-nut. No. 1,025,825; May 7; Sp. p. 1570; Gaz. vol. 178; p. 248.
Oder, William T., Rosedale, Cal. Automobile-top. No. 1,045,428; Nov. 26; Gaz. vol. 184; p. 919.

Alphabetical list of patentees—Continued.

Odermatt, Frank J., Tucson, Ariz. Sash-lifter. No. 1,019,690; Mar. 5; Sp. p. 1487; Gaz. vol. 176; p. 230.
Oechsle, Theodore F., *et al.* (See Roper, William, assignor.)
Oehler, William H., assignor to Gould & Eberhardt, Newark, N. J. Device for setting cutters. No. 1,034,927; Aug. 6; Gaz. vol. 181; p. 176.
Oehlke, Frederick H., assignor to Hoffman Heater Company, Lorain, Ohio. Water-heater. No. 1,017,012; Feb. 13; Sp. p. 1735; Gaz. vol. 175; p. 303.
Oehlke, Frederick H., assignor to Hoffman Heater Company, Lorain, Ohio. Gas-burner. No. 1,041,863; Oct. 22; Gaz. vol. 183; p. 842.
Oehring, Oscar, Berlin, Germany, assignor to American Stamp & Ticket Vending Machine Co., New York, N. Y. Strip-feeding device. No. 1,023,165; Apr. 16; Sp. p. 3056; Gaz. vol. 177; p. 547.
Oehring, Oscar, Berlin, Germany, assignor to American Stamp and Ticket Vending Machine Company, New York, N. Y. Railway or other fare indicator. No. 1,034,727; Aug. 6; Gaz. vol. 181; p. 109.
Oehrle Brothers Company. (See Oehrle, Franklin W., assignor.)
Oehrle, Franklin W., assignor to Oehrle Brothers Company, Philadelphia, Pa. Tuft. No. 1,038,943; Sept. 17; Gaz. vol. 182; p. 668.
Oelke, Theodore G., Anadarko, Okla. Combined tie and rail-fastener. No. 1,038,944; Sept. 17; Gaz. vol. 182; p. 668.
Oelman, Curt E., Detroit, Mich. Machine for mixing dough. No. 1,019,076; Mar. 5; Sp. p. 147; Gaz. vol. 176; p. 25.
Oelwerke-Stern Sonneborn Actiengesellschaft. (See Wendt, Paul, assignor.)
Oenning, Herman, Chicago, Ill. Gage. No. 1,023,166; Apr. 16; Sp. p. 3057; Gaz. vol. 177; p. 548.
Oeser, Ernst, Berlin, Germany. Bronze foil. No. 1,037,515; Sept. 3; Gaz. vol. 182; p. 115.
Oesterlen, Fritz, Heidenheim, Brenz, Germany. Hydraulic turbine. No. 1,047,134; Dec. 10; Gaz. vol. 185; p. 502.
Ofenbau-Gesellschaft m. b. H. (See Richter, Georg, assignor.)
Ofenbau-Gesellschaft mit beschränkter Haftung. (See Ludwig, Bernhard, assignor.)
Offenbacher, Emil, Nuremberg, Germany. Machine for polishing facets and surfaces. No. 1,013,559; Jan. 2; Sp. p. 1019; Gaz. vol. 174; p. 163.
Offenburger, William, Evergreen, N. Y. Convertible boat. No. 1,048,337; Dec. 24; Gaz. vol. 185; p. 976.
Offene Handelsgesellschaft Gebrüder Schubert. (See Burian, Carl, assignor.)
Office Appliance Manufacturing Company, The. (See White, Samuel B., assignor.) (Reissue.)
Offill, Preston, Collegeview, Nebr., and E. G. Plummer, Altoona, Iowa. Planter. No. 1,021,726; Mar. 26; Sp. p. 5752; Gaz. vol. 176; p. 1033.
Offutt, John W., Ellwood City, assignor to The Shelby Steel Tube Company, Pittsburgh, Pa. Making seamless tubes. No. 1,040,569; Oct. 8; Gaz. vol. 183; p. 334.
Offutt, John W., Elwood City, assignor of one-half to J. H. Nicholson, Pittsburgh, Pa. Sterilizing apparatus. No. 1,046,842; Dec. 10; Gaz. vol. 185; p. 403.
Ofstad, Nicholas J., Riverside, Cal. Fruit-grader. No. 1,030,479; June 25; Sp. p. 5285; Gaz. vol. 179; p. 937.
Ogburn, Calvin, Los Angeles, Cal. Oven. No. 1,035,036; Aug. 6; Gaz. vol. 181; p. 211.
Ogden, Edmund J., Springfield, Ill. Aerial toy. No. 1,020,775; Mar. 19; Sp. p. 3777; Gaz. vol. 176; p. 662.
Ogden, George G., *et al.* (See Bradley, Clarence J., assignor.)
Ogden, James D., Crawford, Tex. Railway-tie. No. 1,023,956; Apr. 23; Sp. p. 4698; Gaz. vol. 177; p. 833.
Ogden, John B., Lynchburg, Va. Sound and shock absorber. No. 1,036,313; Aug. 20; Gaz. vol. 181; p. 719.
Ogden, John E. L., Liscard, England. Steam and vacuum trap. No. 1,047,437; Dec. 17; Gaz. vol. 185; p. 639.
Ogden, Joseph W., Blackwell, Okla. Chute. No. 1,031,460; July 2; Gaz. vol. 180; p. 213.
Ogden, Mancelia E., Newark, N. J. Water-heating device. No. 1,014,170; Jan. 9; Sp. p. 2395; Gaz. vol. 174; p. 401.
Ogden, Robert B., Redlands, Cal. Door-holder. No. 1,036,890; Aug. 27; Gaz. vol. 181; p. 946.
Ogden, William H., Binghamton, N. Y. Rotary steam-engine. No. 1,020,841; Mar. 19; Sp. p. 3909; Gaz. vol. 176; p. 683.
Ogden, William H., Binghamton, N. Y. Packing for engines. No. 1,020,842; Mar. 19; Sp. p. 3912; Gaz. vol. 176; p. 684.
Ogden, William H., Binghamton, N. Y. Internal-combustion engine. No. 1,020,953; Mar. 19; Sp. p. 4132; Gaz. vol. 176; p. 720.
Ogg, James, Pahala, Hawaii. Valve. No. 1,013,806; Jan. 2; Sp. p. 1565; Gaz. vol. 174; p. 249.
Ogg, James, Pahala, Hawaii. Bag-turning machine. No. 1,042,367; Oct. 22; Gaz. vol. 183; p. 1008.
Ogilvie, Bertram. (See Hawkins and Ogilvie.)
Ogilvy, Charles, New York, N. Y. Mask used in applying anesthetics. No. 1,034,821; Aug. 6; Gaz. vol. 181; p. 142.
Ogilvy, David J., Cincinnati, Ohio. Recovering the resinous products from rosin waste and the like. No. 1,014,411; Jan. 9; Sp. p. 2941; Gaz. vol. 174; p. 488.
Ogle, Harley A., assignor to The American Cutlery Co., Chicago, Ill. Coiled-spring-attaching means. No. 1,042,718; Oct. 29; Gaz. vol. 183; p. 1162.
Ogle, Harley A., Chicago, Ill., assignor of one-third to E. O. Rowe and one-third to J. S. Losee, Hebron, Ill. Drilling-machine. No. 1,017,990; Feb. 20; Sp. p. 3917; Gaz. vol. 175; p. 677.
Ogle, Thomas S., and R. F. Polansky, Lyons, Tex. Kitchen-sink. No. 1,040,392; Oct. 8; Gaz. vol. 183; p. 272.
Oglesby, Harry, Chester, Pa. Window-shade adjuster. No. 1,017,452; Feb. 13; Sp. p. 2718; Gaz. vol. 175; p. 457.
Ohio Brass Company, The. (See Allerding, Cletus N., assignor.)
Ohio Brass Company, The. (See Denneen and Brown, assignors.)
Ohio Brass Company, The. (See Denneen and Mead, assignors.)
Ohio Brass Company, The. (See Mead, George A., assignor.)
Ohio Chemical & Manufacturing Company, The. (See Clarke, Graham, assignor.)
Ohio Cultivator Company, The. (See Griffith, Richard H., assignor.)
Ohio Electric Car Company, The. (See Dodge, Henry P., assignor.)
Ohio Manufacturing Company, The. (See Price, Edwin F., assignor.)
Ohio Rake Company, The. (See Lathrop, Frank K., assignor.)
Ohio Safe Deposit & Trust Company, The, trustee. (See Kohnle, Frederick, assignor.)
Ohio Tool Company. (See Manley, Thomas A., assignor.)
Ohio Varnish Company, The. (See Devine, Thomas M., assignor.)
Ohio Varnish Company, The. (See Knapp, William J., assignor.)
Ohio Varnish Company, The. (See Rae, Walter R., assignor.)
Ohlhaver, Peter D. H., Sande, Germany. Manufacturing dried yeast. No. 1,020,306; Mar. 12; Sp. p. 2752; Gaz. vol. 176; p. 467.
Ohlhaver, Peter D. H., Sande, Germany. Increasing the raising power of dried yeast. No. 1,021,700; Mar. 26; Sp. p. 5692; Gaz. vol. 176; p. 1025.
Ohlhaver, Peter D. H., Sande, Germany. Maintaining the vitality of dried yeast. No. 1,039,999; Oct. 1; Gaz. vol. 183; p. 109.
Ohlman, Charles, *et al.* (See Fraser, Edgar M., assignor.)
Ohlman, James P., *et al.* (See Fraser, Edgar M., assignor.)
Ohlrau, William F., and G. K. Neher, Albuquerque, N. Mex. Clamping and squaring machine. No. 1,044,078; Nov. 12; Gaz. vol. 184; p. 393.
Ohlson, Carl, Sacramento, Cal. Letter and package mail-box. No. 1,014,508; Jan. 9; Sp. p. 3114; Gaz. vol. 174; p. 517.
Ohlson, Olof, Newton, assignor to Waltham Watch Company, Waltham, Mass. Winding-indicator for time-pieces. No. 1,038,634; Sept. 17; Gaz. vol. 182; p. 561.
Ohlsson, Charles H., New York, N. Y. Labeling-machine. No. 1,037,971; Sept. 10; Gaz. vol. 182; p. 301.
Ohlsson, Johan A., Stockholm, Sweden. Razor. No. 1,044,906; Nov. 19; Gaz. vol. 184; p. 709.
Ohly, Charles H., Summit, N. J. Necktie-holder. No. 1,015,506; Jan. 23; Sp. p. 5333; Gaz. vol. 174; p. 915.
Ohly, Charles H., Summit, N. J. Necktie-holder. No. 1,016,357; Feb. 6; Sp. p. 267; Gaz. vol. 175; p. 42.
Ohman, Bertil, Cardston, Alberta, Canada. Tamping-machine. No. 1,043,245; Nov. 5; Gaz. vol. 184; p. 70.
Ohman, Karl A., Cohoes, N. Y. Coin-controlled vending-machine. No. 1,034,027; July 30; Gaz. vol. 180; p. 1236.
Ohmer, John F., Dayton, Ohio. Pay-as-you-enter car. No. 1,019,011; Feb. 27; Sp. p. 6169; Gaz. vol. 175; p. 1059.
Ohmstede, August, assignor of one-half to B. W. Bell, Beaumont, Tex. Plunger. No. 1,018,517; Feb. 27; Sp. p. 5108; Gaz. vol. 175; p. 890.
Ohnsman, John H., Beaver Falls, Pa., assignor to National Scale Company, Chicopee Falls, Mass. Automatic computing and weighing scale. No. 1,040,000; Oct. 1; Gaz. vol. 183; p. 109.
Ohnstrand, Enoch, Jamestown, N. Y. File-compressor. No. 1,036,515; Aug. 20; Gaz. vol. 181; p. 789.
Öhrström, Carl G. H. W., Ystad, Sweden, and E. H. Wallgren, Copenhagen, Denmark. Locking device for receptacles. No. 1,045,070; Nov. 19; Gaz. vol. 184; p. 766.
Ohrt, Martin, Melvin, Ill. Match-receptacle. No. 1,023,029; Apr. 9; Sp. p. 2707; Gaz. vol. 177; p. 463.
Ohye, Takanosuke, San Diego, Cal. Ellipsograph. No. 1,022,969; Apr. 9; Sp. p. 2604; Gaz. vol. 177; p. 443.
Oie, Lars L., San Pedro, Cal. Valve. No. 1,043,136; Nov. 5; Gaz. vol. 184; p. 31.
Oil Well Supply Company. (See Kern, George W., assignor.)
Okamoto, Kenzo, Hempstead, N. Y. Puzzle. No. 1,028,380; June 4; Sp. p. 691; Gaz. vol. 179; p. 105.

Alphabetical list of patentees—Continued.

Okerson, Adolph, Ishpeming, Mich. Valve-grinding device. No. 1,020,218; Mar. 12; Sp. p. 2589; Gaz. vol. 176; p. 439.
Okill, John, Rock Ferry, England. Pressure-gage. No. 1,042,958; Oct. 29; Gaz. vol. 183; p. 1243.
Okrassa, Roberto, Antigua, Guatemala. Apparatus for washing coffee and the like. No. 1,013,807; Jan. 2; Sp. p. 1567; Gaz. vol. 174; p. 249.
Okrassa, Roberto, Antigua, Guatemala. Machine for drying coffee and the like. No. 1,027,146; May 21; Sp. p. 4589; Gaz. vol. 178; p. 771.
Okrassa, Roberto, Antigua, Guatemala. Coffee-separator. No. 1,029,624; June 18; Sp. p. 3372; Gaz. vol. 179; p. 600.
Okrassa, Roberto, Antigua, Guatemala. Furnace. No. 1,034,495; Aug. 6; Gaz. vol. 181; p. 32.
Okrassa, Roberto, Antigua, Guatemala. Coffee huller and polisher. No. 1,035,631; Aug. 13; Gaz. vol. 181; p. 446.
Olas, Blażej, assignor of one-half to M. Malacina, Chicago, Ill. Hat-pin-point protector. No. 1,038,945; Sept. 17; Gaz. vol. 182; p. 668.
Olberg, Charles K., Philadelphia, Pa. Sash-mounting. No. 1,042,591; Oct. 29; Gaz. vol. 183; p. 1117.
Oldberg Manufacturing Company. (See Oldberg, Virgil, assignor.)
Oldberg, Virgil, Peoria, Ill., assignor to Oldberg Manufacturing Company, Detroit, Mich. Muffler. No. 1,043,966; Nov. 12; Gaz. vol. 184; p. 355.
Olden, William Q., Joliet, Ill. Amusement device. No. 1,029,710; June 18; Sp. p. 3576; Gaz. vol. 179; p. 631.
Oldenbusch, Ernest, New York, N. Y. Book-rack. No. 1,022,150; Apr. 2; Sp. p. 845; Gaz. vol. 177; p. 134.
Oldenbusch, Ernest, New York, N. Y. Toilet-powder dispenser. No. 1,045,071; Nov. 19; Gaz. vol. 184; p. 766.
Oldfield, Edwin, Norwich, Conn. Ball-bearing. No. 1,035,463; Aug. 13; Gaz. vol. 181; p. 390.
Oldham, Edwin W., assignor to The Hygienic Products Company, Canton, Ohio. Cleaning-powder. No. 1,048,575; Dec. 31; Gaz. vol. 185; p. 1095.
Oldham, Frederick C., Brooklyn, N. Y. Insertible sawtooth. No. 1,017,013; Feb. 13; Sp. p. 1738; Gaz. vol. 175; p. 303.
Oldham, Frederick C., Brooklyn, N. Y. Resilient wheel. No. 1,026,822; May 21; Sp. p. 3804; Gaz. vol. 178; p. 659.
Oldham, Joseph R., Cleveland, Ohio. Ship construction. No. 1,020,365; Mar. 12; Sp. p. 2861; Gaz. vol. 176; p. 485.
Oldham, Joseph R., Cleveland, Ohio. Ship construction. No. 1,023,477; Apr. 16; Sp. p. 3670; Gaz. vol. 177; p. 650.
Oldham, Joseph R., Cleveland, Ohio. Ship's hatches and decks. No. 1,028,263; June 4; Sp. p. 436; Gaz. vol. 179; p. 63.
Oldham, Orlando, Denton, near Manchester, England. Secondary storage battery. No. 1,043,535; Nov. 5; Gaz. vol. 184; p. 175.
Oldham, Samuel, Philadelphia, Pa. Vehicle-wheel. No. 1,015,064; Jan. 16; Sp. p. 4398; Gaz. vol. 174; p. 739.
Olds, Alonzo F., Chicago, Ill. Automobile starting mechanism. No. 1,021,624; Mar. 26; Sp. p. 5563; Gaz. vol. 176; p. 999.
Olds, Millard D., Cheboygan, Mich., assignor to Clyde Iron Works, Duluth, Minn. Stake for logging-cars and the like. No. 1,047,978; Dec. 24; Gaz. vol. 185; p. 855.
Oldson, Harry N., *et al.* (See Stewart, Robert F., assignor.)
Oleson, Frank L. (See Battershall and Oleson.)
Oliger, Jacob D., *et al.* (See Patterson, Benjamin G., assignor.)
Oling, Abraham J., assignor of one-third to I. Kommers, Jr., Chicago, Ill. Pneumatic cushion for vehicles. No. 1,023,868; Apr. 23; Sp. p. 4483; Gaz. vol. 177; p. 803.
Olinger, Jean B., Milwaukee, Wis. Geographical index for clocks. No. 1,034,496; Aug. 6; Gaz. vol. 181; p. 32.
Oliphant, Janie D. (See Clark and Oliphant.)
Olive, William H., Menominee, Mich. Gate. No. 1,041,663; Oct. 15; Gaz. vol. 183; p. 736.
Oliver, Abe L., San Francisco, Cal. Butter-cutter. No. 1,042,257; Oct. 22; Gaz. vol. 183; p. 972.
Oliver, Charles V., West Union, Iowa. Type-writing machine. No. 1,019,077; Mar. 5; Sp. p. 149; Gaz. vol. 176; p. 25.
Oliver Chilled Plow Works. (See Altgelt, Rudolph J., assignor.)
Oliver Chilled Plow Works. (See Altgelt, Rudolph J. and H. E., assignors.)
Oliver Chilled Plow Works. (See Kirkhuff, Marshall N., assignor.)
Oliver Chilled Plow Works. (See Paul, William L., assignor.)
Oliver, Edd C., Detroit, Mich. Resetting device. No. 1,046,633; Dec. 10; Gaz. vol. 185; p. 330.
Oliver, Frank S., Popham Beach, Me. Lubricator. No. 1,016,642; Feb. 6; Sp. p. 947; Gaz. vol. 175; p. 142.
Oliver, Henry, New York, N. Y. Partition and wall-furring. No. 1,023,526; Apr. 16; Sp. p. 3766; Gaz. vol. 177; p. 666.
Oliver, James G., Alliance, Nebr. Seed-planter. No. 1,019,691; Mar. 5; Sp. p. 1489; Gaz. vol. 176; p. 231.
Oliver, John W., Weehawken, N. J. Sewing-machine. No. 1,048,203; Dec. 24; Gaz. vol. 185; p. 931.
Oliver, Louis E., Maywood, and A. Cureton, Chicago, Ill. Brake-rigging for railway-cars. No. 1,023,388; Apr. 16; Sp. p. 3497; Gaz. vol. 177; p. 623.
Oliver, Louis E., Maywood, and A. Cureton, Chicago, Ill. Adjusting apparatus for brake-rigging. No. 1,028,264; June 4; Sp. p. 441; Gaz. vol. 179; p. 64.
Oliver Motor Car Company. (See Sandgren and Case, assignors.)
Oliver, Otto E., Mount Eden, Cal. Adjustable stock for firearms. No. 1,047,690; Dec. 17; Gaz. vol. 185; p. 731.
Oliver Typewriter Company, The. (See Engel, Arthur F., assignor.)
Oliver Typewriter Company, The. (See Griffiths, George J., assignor.)
Oliver Typewriter Company, The. (See Harting and Flood, assignors.)
Oliver Typewriter Company, The. (See Knapp, Theron L., assignor.)
Oliver, William J., Erlanger, Ky. Car-step. No. 1,021,625; Mar. 26; Sp. p. 5565; Gaz. vol. 176; p. 1000.
Olivier, Edmond, Ottawa, Ontario, Canada. Water-wheel. No. 1,038,189; Sept. 10; Gaz. vol. 182; p. 371.
Olley, Raymond H., assignor to Crouse-Hinds Company, Syracuse, N. Y. Panel-board. No. 1,027,147; May 21; Sp. p. 4590; Gaz. vol. 178; p. 771.
Olmstead, John L. (See Williams and Olmstead.)
Olmstead, Levi W., and C. W. Messimer, Jersey Shore, Pa. Bracket. No. 1,026,221; May 14; Sp. p. 2505; Gaz. vol. 178; p. 419.
Olmsted, Charles M., Pasadena, Cal. Aerial propeller. No. 1,019,078; Mar. 5; Sp. p. 151; Gaz. vol. 176; p. 25.
Olney, Alonzo S., Berkeley, Cal. Continuous concrete-mixer. No. 1,044,807; Nov. 19; Gaz. vol. 184; p. 676.
Olney, Oscar C., assignor of one-fourth to H. Ostholthoff, one-fourth to E. W. Herzog, Cincinnati, Ohio, and one-fourth to J. Braukmann, Covington, Ky. Pneumatic automobile-wheel. No. 1,029,625; June 18; Sp. p. 3373; Gaz. vol. 179; p. 600.
Olpp, Josef, assignor to Firm of M. Hausch, Pforzheim, Germany. Lady's hand-bag. No. 1,046,843; Dec. 10; Gaz. vol. 185; p. 403.
Olsen, Carl. (See Eslon, Victor E., assignor.)
Olsen, Christian, Soldier, Iowa. Fruit-picker. No. 1,038,425; Sept. 10; Gaz. vol. 182; p. 454.
Olsen, Einar J., assignor of one-fourth to G. Groschen, Minneapolis, Minn. Bed-rail joint. No. 1,031,660; July 2; Gaz. vol. 180; p. 281.
Olsen, James P., Jr., Salt Lake City, Utah. Airship. No. 1,031,461; July 2; Gaz. vol. 180; p. 214.
Olsen, Jens C., Tolley, N. D. Gearing. No. 1,048,864; Dec. 31; Gaz. vol. 185; p. 1196.
Olsen, John. (See Glaser and Olsen.)
Olsen, John, Watertown, N. Y. Pulp-screen-plate fastener. No. 1,013,890; Jan. 9; Sp. p. 1785; Gaz. vol. 174; p. 306.
Olsen, John, Watertown, N. Y. Pulp-screen. No. 1,022,750; Apr. 9; Sp. p. 2147; Gaz. vol. 177; p. 368.
Olsen, John, Watertown, N. Y. Pulp-screen. No. 1,040,743; Oct. 8; Gaz. vol. 183; p. 397.
Olsen, John O., and A. J. Gidlund, Chicago, Ill. Nut-lock. No. 1,047,691; Dec. 17; Gaz. vol. 185; p. 731.
Olsen, Linda M., *et al.* (See Penfield, James C. and J. N., assignors.)
Olsen, Martin, Eureka, Cal. Life-saving apparatus. No. 1,020,366; Mar. 12; Sp. p. 2866; Gaz. vol. 176; p. 485.
Olsen, Martin H., Chicago, Ill. Ball-collecting device for pool-tables. No. 1,046,844; Dec. 10; Gaz. vol. 185; p. 403.
Olsen, Martin H., Chicago, Ill. Pool-table. No. 1,046,845; Dec. 10; Gaz. vol. 185; p. 403.
Olsen, Niels M. T., Neenah, Wis. Boot and shoe cleaning device. No. 1,033,613; July 23; Gaz. vol. 180; p. 1068.
Olsen, Ole, Oakland, assignor of one-half to H. T. Carvin, Alameda, Cal. Pneumatic pressure-gage. No. 1,041,336; Oct. 15; Gaz. vol. 183; p. 628.
Olsen, Petter M., Brooklyn, N. Y. Device for plumbing and leveling. No. 1,040,744; Oct. 8; Gaz. vol. 183; p. 397.
Olsen, Simon D., Brooklyn, N. Y., assignor to Precision Glass Grinding Machine Company, Sioux Falls, S. D. Grinding-machine. No. 1,023,389; Apr. 16; Sp. p. 3500; Gaz. vol. 177; p. 624.
Olsen, Tinius, Philadelphia, Pa. Packing for testing-machines. No. 1,036,314; Aug. 20; Gaz. vol. 181; p. 719.
Olsen, Waldemar J. P., Brooklyn, N. Y. Puzzle or toy. No. 1,038,190; Sept. 10; Gaz. vol. 182; p. 371.
Olson, Alex H., Chicago, Ill. Tool for making angular bends in metal. No. 1,040,745; Oct. 8; Gaz. vol. 183; p. 397.
Olson, Andrew N., Idaho Springs, assignor of one-tenth to C. C. King, Denver, Colo. Sight-illuminating attachment for guns. No. 1,017,991; Feb. 20; Sp. p. 3920; Gaz. vol. 175; p. 678.
Olson, Andrew P., Chicago, Ill. Fountain for drinking purposes. No. 1,045,171; Nov. 26; Gaz. vol. 184; p. 829.
Olson, Anton, Viroqua, Wis. Egg-case. No. 1,025,294; May 7; Sp. p. 401; Gaz. vol. 178; p. 66.

Alphabetical list of patentees—Continued.

Olson, Arvill, Vernon, Utah. Disk plow. No. 1,036,140; Aug. 20; Gaz. vol. 181; p. 659.
Olson, August, Philadelphia, Pa., assignor to United Shoe Machinery Company, Paterson, N. J. Impression or imitation stitch machine. No. 1,040,393; Oct. 8; Gaz. vol. 183; p. 273.
Olson, Bennet, Glencoe, assignor of one-half to W. C. Burtman, Waseca, Minn. Pump mechanism. No. 1,017,992; Feb. 20; Sp. p. 3923; Gaz. vol. 175; p. 678.
Olson, Carl A., Milan, Minn. Traction-engine. No. 1,036,691; Aug. 27; Gaz. vol. 181; p. 880.
Olson, Charles S., Duluth, Minn., assignor to Hercules Manufacturing Company. Alarm mechanism. No. 1,036,692; Aug. 27; Gaz. vol. 181; p. 881.
Olson, Charles W., Rainier, Oreg. Conveyer-bucket. No. 1,014,666; Jan. 16; Sp. p. 3514; Gaz. vol. 174; p. 602.
Olson, Christian, Everett, Wash. Shifting attachment for type-writers. No. 1,039,178; Sept. 24; Gaz. vol. 182; p. 761.
Olson, David. (See Westerberg and Olson.)
Olson, David P., and S. C. Swartzfeger, Washington, Pa. Dinner-pail. No. 1,032,622; July 16; Gaz. vol. 180; p. 695.
Olson, Eddie P., and J. T. Jackson, Mount Sterling, Wis. Mortaring device. No. 1,033,453; July 23; Gaz. vol. 180; p. 1014.
Olson, Edward W., Walla Walla, Wash. Poultry apparatus. No. 1,023,030; Apr. 9; Sp. p. 2708; Gaz. vol. 177; p. 463.
Olson, Emil, Rockford, Ill. Curb-shaping tool. No. 1,035,037; Aug. 6; Gaz. vol. 181; p. 211.
Olson, Gust T., Jamestown, N. Y. Hand-reel. No. 1,047,113; Dec. 10; Gaz. vol. 185; p. 493.
Olson, Gustav A., Albert Lea, Minn. Overhead-track switch. No. 1,034,284; July 30; Gaz. vol. 180; p. 1325.
Olson, Gustave R., Plattsmouth, Nebr. Photographic-printing machine. No. 1,013,950; Jan. 9; Sp. p. 1924; Gaz. vol. 174; p. 327.
Olson, John, Chicago, Ill. Lifting-jack. No. 1,018,127; Feb. 20; Sp. p. 4218; Gaz. vol. 175; p. 725.
Olson, John, Bradley, assignor, by mesne assignments, to Sears, Roebuck & Company, Chicago, Ill. Cultivator. No. 1,043,246; Nov. 5; Gaz. vol. 184; p. 71.
Olson, John, Bradley, assignor to Sears, Roebuck & Company, Chicago, Ill. Machine element. No. 1,043,247; Nov. 5; Gaz. vol. 184; p. 71.
Olson, John A., Jr., Soledad, Cal. Adjustable socket-wrench. No. 1,046,216; Dec. 3; Gaz. vol. 185; p. 144.
Olson, John O., Zumbrota, Minn. Box-fastening. No. 1,025,014; Apr. 30; Sp. p. 7025; Gaz. vol. 177; p. 1234.
Olson, John O., and W. W. Grant, assignors to Spiral Radiator Company, St. Paul, Minn. Forming closed continuous spiral chambers from sheet metal. No. 1,029,310; June 11; Sp. p. 2686; Gaz. vol. 179; p. 456.
Olson, Levi. (See Gustafson, Edwin, assignor.)
Olson, Martin, Minneapolis, Minn. Pocket-book-securing device. No. 1,041,664; Oct. 15; Gaz. vol. 183; p. 736.
Olson, Nels G., Buffalo, N. Y., and A. T. Barrows, Brunswick, Me. Wave-motor. No. 1,037,041; Aug. 27; Gaz. vol. 181; p. 997.
Olson, Odin, Brager, Minn. Traction-wheel attachment. No. 1,047,278; Dec. 17; Gaz. vol. 185; p. 584.
Olson, Oscar A., Lincoln, Nebr. Valve-seating and surface-lapping machine. No. 1,024,806; Apr. 30; Sp. p. 6607; Gaz. vol. 177; p. 1162.
Olson, Oscar A., Lincoln, Nebr. Portable valve-grinding machine. No. 1,035,996; Aug. 20; Gaz. vol. 181; p. 606.
Olson, Samuel, Chicago, Ill. Bread-proofing apparatus. No. 1,038,784; Sept. 17; Gaz. vol. 182; p. 613.
Olson, Swinea, Amboy, Minn. Veterinary instrument. No. 1,040,394; Oct. 8; Gaz. vol. 183; p. 273.
Olson, Thomas. (See Swanson, Arvid E., assignor.)
Olsson, Arthur L., Los Angeles, Cal. Automatic hose-reel. No. 1,034,285; July 30; Gaz. vol. 180; p. 1325.
Olsson, Emil, assignor to Aktiebolaget Bofors-Gullspång, Bofors, Sweden. Valve for hydraulic brakes in guns with recoiling barrels. No. 1,029,555; June 11; Sp. p. 3222; Gaz. vol. 179; p. 540.
Olsson, Emil, assignor to Aktiebolaget Bofors-Gullspång, Bofors, Sweden. Breech-loading mechanism for artillery-guns. No. 1,040,001; Oct. 1; Gaz. vol. 183; p. 110.
Olsson, Henning A., and S. G. Wingquist, assignors to Aktiebolaget Svenska Kullagerfabriken, Gottenborg, Sweden. Retainer for ball-bearings. No. 1,023,751; Apr. 16; Sp. p. 4189; Gaz. vol. 177; p. 736.
Olszewski, Konstantin von, Dresden, Germany. Tin-oxidizing furnace. No. 1,028,595; June 4; Sp. p. 1161; Gaz. vol. 179; p. 176.
Olszewski, Valentine J., assignor of one-half to C. W. Kirchner, Detroit, Mich. Printing-press. No. 1,046,217; Dec. 3; Gaz. vol. 185; p. 145.
Oltmann, John W., Oakland, Cal. Weeding and cultivating tool. No. 1,035,226; Aug. 13; Gaz. vol. 181; p. 306.
Olympic Inserted Tooth Cylinder Company. (See Rich and Gates, assignors.)
Oman, Amos H. (See Fritz, Julius L., assignor.)
Oman, Frank W. (See Hodge, Erastus A., assignor.)
Omwake, Ira F., Fort Smith, Ark. Display-case. No. 1,018,679; Feb. 27; Sp. p. 5453; Gaz. vol. 175; p. 946.
Onderdonk, Lansing, New York, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Gear-casing. No. 1,030,677; June 25; Sp. p. 5901; Gaz. vol. 179; p. 1008.
Onderdonk, Lansing, New York, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Trimming device for sewing-machines. No. 1,048,204; Dec. 24; Gaz. vol. 185; p. 931.
Onderdonk, Lansing, New York, N. Y., assignor to The Union Special Sewing Machine Company, Chicago, Ill. Feeding mechanism for blindstitch-machines. No. 1,042,258; Oct. 22; Gaz. vol. 183; p. 973.
Onderdonk, Lansing, New York, N. Y., assignor to Union Special Sewing Machine Company, Chicago, Ill. Sewing-machine. No. 1,046,401; Dec. 3; Gaz. vol. 185; p. 211.
Oneida Community. (See Herrick, Paul B., assignor.)
Oneida Community. (See Scott, William, assignor.)
Oneida Community. (See Skinner, Theodore H., assignor.)
Oneida Steel Pulley Company. (See Biggar, Leroy A., assignor.)
Onondaga Pottery Company. (See Pass and Cannan, assignors.)
Onsrud, Louis, Westby, Wis. Attachment for wagon-boxes. No. 1,034,028; July 30; Gaz. vol. 180; p. 1237.
Onyon, William C., Byron, Mich. Harrow. No. 1,046,009; Dec. 3; Gaz. vol. 185; p. 72.
Onyons, Robert W., Boston, assignor of one-half to F. Pickering, Dorchester, Mass. Hinge. No. 1,028,953; June 11; Sp. p. 1921; Gaz. vol. 179; p. 332.
Op de Hipt, Hermann, assignor to I. Weck. Gesellschaft mit beschränkter Haftung, Oeflingen, Germany. Sterilizing apparatus. No. 1,021,946; Apr. 2; Sp. p. 405; Gaz. vol. 177; p. 67.
Opalla, Arthur, assignor, by mesne assignments, to R. B. Wilson, Chicago, Ill. Loose-leaf binder. No. 1,017,165; Feb. 13; Sp. p. 2078; Gaz. vol. 175; p. 357.
Open Coil Heater and Purifier Co. (See Stickle, Cole, assignor.)
Opitz, Frank E., and R. R. Egbert, Pomona, Cal. Sprinkler-head. No. 1,021,374; Mar. 26; Sp. p. 5009; Gaz. vol. 176; p. 914.
Opp, James L., Pinckneyville, Ill. Ice-breaker. No. 1,034,286; July 30; Gaz. vol. 180; p. 1326.
Oppenheim, Egon, assignor of one-half to F. Wiesbader, New York, N. Y. Hook and ear. No. 1,036,315; Aug. 20; Gaz. vol. 181; p. 720.
Oppenheimer, Albert, Notting Hill, London, England. Propeller apparatus for boats. No. 1,028,265; June 4; Sp. p. 443; Gaz. vol. 179; p. 64.
Oppenheimer, Fred. (See Spiegel, William G., assignor.)
Oppenheimer, Fred, New York, N. Y. Railway-ticket. No. 1,035,997; Aug. 20; Gaz. vol. 181; p. 606.
Oppenheimer, Fred, and W. G. Spiegel; said Spiegel assignor to said Oppenheimer, New York, N. Y. Ticket holding and serving device. No. 1,016,893; Feb. 6; Sp. p. 1449; Gaz. vol. 175; p. 225.
Oppenheimer, Harry D., Chicago, Ill. Machine for cleaning intestines or casings. No. 1,019,079; Mar. 5; Sp. p. 156; Gaz. vol. 176; p. 26.
Oppenheimer, S. (See Koelitz, Edmund, assignor.)
Opperud, Joseph, Madison, S. D. Animal-trap. No. 1,016,170; Jan. 30; Sp. p. 6734; Gaz. vol. 174; p. 1171.
Oppy, Abraham B., Kansas City, Mo. Caster. No. 1,033,264; July 23; Gaz. vol. 180; p. 953.
Opsahl, Tidemand, Fillmore, assignor of thirty one-hundredths to W. E. McCampbell and G. E. Harpham, Los Angeles, Cal. Mechanical movement. No. 1,029,764; June 18; Sp. p. 3681; Gaz. vol. 179; p. 649.
Optenberg, John H. (See Froney and Optenberg.)
Optische Anstalt C. P. Goerz Aktiengesellschaft. (See Bernick, Ernst, assignor.)
Optische Anstalt C. P. Goerz Aktiengesellschaft. (See Hofe, Christian von, assignor.)
Orand, John L. (See Schaffer, William A., assignor.)
Orban, George V., and B. Silberstein, New York, N. Y. Pencil-case. No. 1,049,137; Dec. 31; Gaz. vol. 185; p. 1291.
Orbin, George, Milwaukee, Wis. Nut-lock. No. 1,049,138; Dec. 31; Gaz. vol. 185; p. 1291.
Orcutt, Charles D., North Tonawanda, assignor to Buffalo Sled Company, Buffalo, N. Y. Sled. No. 1,019,349; Mar. 5; Sp. p. 774; Gaz. vol. 176; p. 119.
Ord, Edward O. C., Prescott, Ariz. Dish-washing pan. No. 1,014,509; Jan. 9; Sp. p. 3117; Gaz. vol. 174; p. 518.
Ord, James L. (See Lubke, Adolph E. G., assignor.)
Ord, William D. (See Hyde, Marcus L., assignor.)
Ordóñez, Salvador, San Francisco, Cal. Corn-sheller. No. 1,016,089; Jan. 30; Sp. p. 6596; Gaz. vol. 174; p. 1146.
Ordway, Daniel L., and J. W. Brown, Lakewood, assignors to National Carbon Company, Cleveland, Ohio. Circuit-controller. No. 1,046,846; Dec. 10; Gaz. vol. 185; p. 404.
Orear, Benjamin F., assignor of one-half to O. H. Quernheim, St. Louis, Mo. Hinge. No. 1,016,171; Jan. 30; Sp. p. 6736; Gaz. vol. 174; p. 1171.
Oregon Fruit Cleaner Company. (See Porter, Orson K., assignor.)

Alphabetical list of patentees—Continued.

Orenstein-Arthur Koppell Co. (See Hansen, Karl H., assignor.)
Orenstein, Charles, Sedalia, Mo. Rail-clamp. No. 1,016,849; Feb. 6; Sp. p. 1357; Gaz. vol. 175; p. 210.
Orgaard, Carl, Wheelock, assignor of one-fifth to A. G. J. Anderson, Tioga, N. D. Shocking-machine. No. 1,040,002; Oct. 1; Gaz. vol. 183; p. 110.
Organ Power Company, The. (See Spencer, Ira H., assignor.)
Oriental Candy Co. (See Hicks, John W., assignor.)
Orlandi, John, Salisbury, Conn. Miter-clamp. No. 1,015,336; Jan. 23; Sp. p. 4969; Gaz. vol. 174; p. 857.
Orlay, Jerôme, Temsche, Belgium. Elevated railway. No. 1,020,570; Mar. 19; Sp. p. 3318; Gaz. vol. 176; p. 592.
Orling, Axel, Tooting, assignor to Orling's Telegraph Instruments Syndicate Limited, London, England. Electrocapillary instrument for detecting and recording the passage of electric impulses. No. 1,037,972; Sept. 10; Gaz. vol. 182; p. 302.
Orling's Telegraph Instruments Syndicate Limited. (See Orling, Axel, assignor.)
Ormandy, William R., and J. W. Spensley, Manchester, England. Manufacture of detergents. No. 1,036,316; Aug. 20; Gaz. vol. 181; p. 720.
Ormandy, William R., and J. W. Spensley, Manchester, England. Manufacturing detergents. No. 1,046,847; Dec. 10; Gaz. vol. 185; p. 404.
Ormsby, Helen M., Xenia, Ohio. Guy for vehicle-tops. No. 1,028,266; June 4; Sp. p. 444; Gaz. vol. 179; p. 64.
Ormsby, Volney V., Chaney, Okla. Window-frame fastening. No. 1,038,946; Sept. 17; Gaz. vol. 182; p. 669.
Orndoff, Oscar F., Council Bluffs, Iowa. Furrow-opener attachment. No. 1,046,848; Dec. 10; Gaz. vol. 185; p. 405.
Ornstein, Georg, Berlin, Germany. Producing acetylene tetrachlorid. No. 1,030,916; July 2; Gaz. vol. 180; p. 22.
Orr, Edward E. (See McPherson and Orr.)
Orr, Edward E., Weymouth, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Gage mechanism for shoe-sewing machines. No. 1,034,822; Aug. 6; Gaz. vol. 181; p. 142.
Orr, Elbert A., Pueblo, Colo. Automatic damper-regulator. No. 1,014,845; Jan. 16; Sp. p. 3921; Gaz. vol. 174; p. 664.
Orr, Francis J., Buffalo, N. Y. Furnace for gas-generators. No. 1,030,202; June 18; Sp. p. 4644; Gaz. vol. 179; p. 798.
Orr, John A., Westonia, Miss. Buggy-top. No. 1,019,692; Mar. 5; Sp. p. 1490; Gaz. vol. 176; p. 231.
Orr, Robert S., Pittsburgh, Pa. Washing-machine. No. 1,022,640; Apr. 9; Sp. p. 1874; Gaz. vol. 177; p. 328.
Orr, Robert S., Pittsburgh, Pa. Washing-machine. No. 1,022,641; Apr. 9; Sp. p. 1876; Gaz. vol. 177; p. 328.
Orr, William J., Bangor, Me. Locomotive coal-sprayer. No. 1,033,924; July 30; Gaz. vol. 180; p. 1198.
Orstad, Ole E., Park River, N. D. Spring connecting member for fan-blades. No. 1,042,959; Oct. 29; Gaz. vol. 183; p. 1243.
Orth, Ludwig von. (See Richter and Orth.)
Orth, William P., Milwaukee, Wis. Boring-machine. No. 1,044,564; Nov. 19; Gaz. vol. 184; p. 589.
Orton, Daniel J., Sac City, Iowa. Cultivator-fender. No. 1,037,654; Sept. 3; Gaz. vol. 182; p. 160.
Orton, Frederick, Glendale, assignor to E. W. Bliss Company, Brooklyn, N. Y. Drawing-press. No. 1,025,154; May 7; Sp. p. 89; Gaz. vol. 178; p. 16.
Orton, Ingomar F., Galveston, Tex. Weed-destroying composition. No. 1,020,049; Mar. 12; Sp. p. 2218; Gaz. vol. 176; p. 382.
Orwan, Julius. (See Kalmanovits, Louis, assignor.)
Orwig, Catherine O., Smithfield, Ill. Combined step-ladder and ironing-board. No. 1,035,998; Aug. 20; Gaz. vol. 181; p. 606.
Osborn, Alden E., New York, N. Y. Power-transmitting mechanism. No. 1,049,260; Dec. 31; Gaz. vol. 185; p. 1332.
Osborn, Arthur E. (See Wilkinson and Osborn.)
Osborn, David A., *et al.* (See Bassett, Linton T., assignor.)
Osborn, Francis C., Detroit, Mich., assignor, by mesne assignments, to The National Cash Register Company, Dayton, Ohio. Cash-register. No. 1,015,456; Jan. 23; Sp. p. 5219; Gaz. vol. 174; p. 898.
Osborn, Francis C., Detroit, Mich., assignor to Single Service Package Corporation of America, New York, N. Y. Glue-applying machine for use in making spirally-wound tubes. No. 1,018,335; Feb. 20; Sp. p. 4630; Gaz. vol. 175; p. 795.
Osborn, G. W. (See Lamson, Paul W., assignor.)
Osborn, Harry, Buckley, Wash. Attachment for frying-pans. No. 1,021,425; Mar. 26; Sp. p. 5160; Gaz. vol. 176; p. 934.
Osborn, Henry C., assignor to The American Multigraph Company, Cleveland, Ohio. Paper-feeding mechanism. No. 1,023,869; Apr. 23; Sp. p. 4486; Gaz. vol. 177; p. 804.
Osborn, Henry C., assignor to The American Multigraph Company, Cleveland, Ohio. Inking-roller. No. 1,030,917; July 2; Gaz. vol. 180; p. 22.
Osborn, Henry C., asignor to The American Multigraph Company, Cleveland, Ohio. Retaining device for printing-surfaces. No. 1,031,661; July 2; Gaz. vol. 180; p. 282.
Osborn, Henry C., assignor to The American Multigraph Company, Cleveland, Ohio. Printing mechanism. No. 1,044,907; Nov. 19; Gaz. vol. 184; p. 709.
Osborn, Henry P., Bayonne, N. J. Artificial tooth and making the same. No. 1,040,571; Oct. 8; Gaz. vol. 183; p. 334.
Osborn, James H., assignor of one-fourth to L. M. Osborn, Mount Vernon, Ill. Hose-patch. No. 1,032,078; July 9; Gaz. vol. 180; p. 466.
Osborn, Joseph A., assignor to American Car and Foundry Company, St. Louis, Mo. Traveling electric welding apparatus. No. 1,042,466; Oct. 29; Gaz. vol. 183; p. 1072.
Osborn, Joseph A., assignor to American Car and Foundry Company, St. Louis, Mo. Electric welding-tongs. No. 1,042,467; Oct. 29; Gaz. vol. 183; p. 1073.
Osborn, Joseph A., assignor to American Car and Foundry Company, St. Louis, Mo. Electric welding-tongs. No. 1,042,468; Oct. 29; Gaz. vol. 183; p. 1073.
Osborn, Louis M. (See Osborn, James H., assignor.)
Osborn Manufacturing Company, The. (See Fuller and Reilly, assignors.)
Osborn Manufacturing Company, The. (See Knowlton and Elliot, assignors.)
Osborn, William G., Gary, Ind. Apparatus for loading corn-shocks. No. 1,027,356; May 21; Sp. p. 4997; Gaz. vol. 178; p. 842.
Osborne, Eugene F., deceased, (M. C. Osborne, administratrix,) and W. L. Osborne, assignors to Osborne Steam Engineering Company, Chicago, Ill. Joint for connecting fittings. No. 1,035,810; Aug. 13; Gaz. vol. 181; p. 507.
Osborne, Fred. (See Brampton and Osborne.)
Osborne, Heman, Springfield, Mass. Transom-lifter. No. 1,040,570; Oct. 8; Gaz. vol. 183; p. 334.
Osborne, Hugh, New York, N. Y. Paper-polishing machine. No. 1,046,218; Dec. 3; Gaz. vol. 185; p. 145.
Osborne, John E., Brandon, Tex. Stalk-cutting attachment for plows. No. 1,047,979; Dec. 24; Gaz. vol. 185; p. 856.
Osborne, John H., Anderson, Ind. Vending-machine. No. 1,027,499; May 28; Sp. p. 5299; Gaz. vol. 178; p. 928.
Osborne, John H., Anderson, Ind. Computing cheese-cutter. No. 1,039,179; Sept. 24; Gaz. vol. 182; p. 761.
Osborne, John L., assignor to Judson Governor Company, Rochester, N. Y. Governor. No. 1,044,233; Nov. 12; Gaz. vol. 184; p. 445.
Osborne, John W., assignor of two-thirds to J. B. Davis, Jr., Winchester, Ill. Cultivator. No. 1,020,620; Mar. 19; Sp. p. 3437; Gaz. vol. 176; p. 608.
Osborne, Mary C., administratrix. (See Osborne, Eugene F. and W. L.)
Osborne Steam Engineering Company. (See Osborne, Eugene F. and W. L., assignors.)
Osborne and Stephenson Manufacturing Company. (See Stephenson, Frederick G., assignor.)
Osborne, William J. (See Felch, Theodore K., assignor.)
Osborne, William L. (See Osborne, Eugene F. and W. L.)
Osborne, William S., New York, N. Y., assignor to The Griscom Spencer Company. Apparatus for desiccating fluid substances. No. 1,028,267; June 4; Sp. p. 446; Gaz. vol. 179; p. 65.
Osburn, David, Horning, Pa. Switch-throwing device. No. 1,024,279; Apr. 23; Sp. p. 5408; Gaz. vol. 177; p. 947.
Osel, Kistel, St. Paul, Minn. Car-door hanger. No. 1,044,908; Nov. 19; Gaz. vol. 184; p. 710.
Osgood, Daniel A., Jersey City, N. J. Grouting-machine. No. 1,024,221; Apr. 23; Sp. p. 5289; Gaz. vol. 177; p. 927.
Osgood, Daniel A., Jersey City, N. J. Calking device. No. 1,035,632; Aug. 13; Gaz. vol. 181; p. 447.
Osgood, Gilbert E., assignor of one-third to J. B. Frizzell, Norfolk, Va. Folding steel awning. No. 1,039,582; Sept. 24; Gaz. vol. 182; p. 905.
Osgood, J. L. (See Manzel, Charles W., assignor.)
Oshkosh Excelsior Mfg. Co. (See Goodrick, Edward W., assignor.)
Oshkosh Trunk Company, The. (See Meyer, Frank W., assignor.)
Osius, Frederick J., Racine, Wis. Agitator implement. No. 1,047,279; Dec. 17; Gaz. vol. 185; p. 584.
Osland, Richard W., Plainfield, N. J., and M. J. Huggins, Brooklyn, N. Y. Lamp-socket. No. 1,013,681; Jan. 2; Sp. p. 1326; Gaz. vol. 174; p. 205.
Oslund, Charles H., Worcester, Mass., assignor to The Duff Manufacturing Company, Pittsburgh, Pa. Clamp for drills and the like. No. 1,034,288; July 30; Gaz. vol. 180; p. 1326.
Oslund, Charles H., Worcester, Mass., assignor to Duff Manufacturing Company, Pittsburgh, Pa. Collapsible drill. No. 1,040,395; Oct. 8; Gaz. vol. 183; p. 273.
Oslund, Charles H., Worcester, Mass., assignor to American Steel & Wire Company of New Jersey, Hoboken, N. J. Rail-bond compressor. No. 1,043,967; Nov. 12; Gaz. vol. 184; p. 356.

Alphabetical list of patentees—Continued.

Osmer, Alfred G., Lincoln, Nebr. Routing-machine. No. 1,027,063; May 21; Sp. p. 4394; Gaz. vol. 178; p. 744.
Osmer, John E., Boone, Iowa, assignor to Allis-Chalmers Company, Milwaukee, Wis. Air-brake-piston-packing expander. No. 1,033,116; July 23; Gaz. vol. 180; p. 901.
Osmers-Dougherty Company. (See Osmers, Frank C., assignor.)
Osmers, Frank C., Haworth, N. J., assignor to Osmers-Dougherty Company, New York, N. Y. Clasp. No. 1,044,686; Nov. 19; Gaz. vol. 184; p. 633.
Oss, John, Atlanta township, Becker county, Minn. Computing-machine. No. 1,022,590; Apr. 9; Sp. p. 1761; Gaz. vol. 177; p. 310.
Ossenbeck, Anton. (See Kahn and Ossenbeck.)
Ossenbeck, Anton, Elberfeld, and A. Zart, Vohwinkel, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Red azo dye. No. 1,027,148; May 21; Sp. p. 4591; Gaz. vol. 178; p. 771.
Ost, Juan, Buenos Aires, Argentina. Purifying sugar. No. 1,020,219; Mar. 12; Sp. p. 2590; Gaz. vol. 176; p. 440.
Ostberg, Albert H. (See Zeleny and Ostberg.)
Ostby, Andrew M., Chicago, Ill. Combination-tool. No. 1,032,855; July 16; Gaz. vol. 180; p. 776.
Ostendorf, Otto L., Rochester, N. Y. Chair. No. 1,045,599; Nov. 26; Gaz. vol. 184; p. 980.
Oster, Herman W., assignor to The Oster Manufacturing Company, Cleveland, Ohio. Die-stock. No. 1,044,808; Nov. 19; Gaz. vol. 184; p. 676.
Oster, Herman W., assignor to The Oster Manufacturing Company, Cleveland, Ohio. Die-stock. No. 1,044,809; Nov. 19; Gaz. vol. 184; p. 676.
Oster, Herman W., assignor to The Oster Manufacturing Company, Cleveland, Ohio. Die-stock. No. 1,044,810; Nov. 19; Gaz. vol. 184; p. 677.
Oster, Herman W., assignor to The Oster Manufacturing Company, Cleveland, Ohio. Thread-cutting mechanism. No. 1,047,280; Dec. 17; Gaz. vol. 185; p. 585.
Oster, Louis W., and F. J. Miller, Cleveland, Ohio; said Oster assignor to said Miller. Automobile-body. No. 1,021,470; Mar. 26; Sp. p. 5267; Gaz. vol. 176; p. 949.
Oster Manufacturing Company, The. (See Oster, Herman W., assignor.)
Oster Manufacturing Company, The. (See Tewksbury, Russell B., assignor.)
Oster, Nick. (See Morgan, Ernest W., assignor.)
Osterberg, Frank M. (See Tate, Charles S., assignor.)
Ostergren, Oscar P., Brooklyn, N. Y., assignor of one-half to H. Reis and one-half to S. S. Marley, Wilmington, Del. Starting mechanism for internal-combustion engines. No. 1,025,295; May 7; Sp. p. 401; Gaz. vol. 178; p. 66.
Osterholm, Theodore O., assignor of one-third to A. I. Pollack and one-third to S. A. Rosen, Worcester, Mass. Pneumatic cleaner. No. 1,022,499; Apr. 9; Sp. p. 1574; Gaz. vol. 177; p. 281.
Osterholm, Theodore O., assignor of one-third to A. I. Pollack and one-third to S. A. Rosen, Worcester, Mass. Pneumatic pump. No. 1,045,172; Nov. 26; Gaz. vol. 184; p. 829.
Osterholm, William. (See Latham and Osterholm.)
Osterholm, William C., Chicago, Ill. Disk-beveling machine. No. 1,042,259; Oct. 22; Gaz. vol. 183; p. 973.
Osterlind, August F., and G. S. Elmquist, St. Paul, Minn. Printer's chase-rack. No. 1,025,296; May 7; Sp. p. 405; Gaz. vol. 178; p. 67.
Osternd, Gustav A., Ostrander, Minn. Pitchfork attachment. No. 1,031,958; July 9; Gaz. vol. 180; p. 427.
Osterud, Gustav A., Ostrander, Minn. Garden-rake fork. No. 1,046,849; Dec. 10; Gaz. vol. 185; p. 405.
Ostheimer, Adam, Sandusky, Ohio. Street and railway track structure. No. 1,036,891; Aug. 27; Gaz. vol. 181; p. 946.
Ostholthoff, Henry, *et al.* (See Olney, Oscar C., assignor.)
Ostman, Joseph O., Hancock, Mich. Folding square. No. 1,019,693; Mar. 5; Sp. p. 1491; Gaz. vol. 176; p. 231.
Ostrander, Allen E., Ridgewood, N. J. Bolster. No. 1,021,743; Mar. 26; Sp. p. 5787; Gaz. vol. 176; p. 1039.
Ostrander, Allen E., Ridgewood, N. J. Cast platform-hood. No. 1,023,031; Apr. 9; Sp. p. 2710; Gaz. vol. 177; p. 464.
Ostrander, Allen E., Ridgewood, N. J. Door-operating device. No. 1,041,864; Oct. 22; Gaz. vol. 183; p. 842
Ostrander, Allen E., Ridgewood, N. J., assignor to American Car and Foundry Company, St. Louis, Mo. Anchor for tank-bands. No. 1,014,846; Jan. 16; Sp. p. 3923; Gaz. vol. 174; p. 665.
Ostrander, Allen E., Ridgewood, N. J., assignor to American Car and Foundry Company, St. Louis, Mo. Truck-bolster. No. 1,026,823; May 21; Sp. p. 3806; Gaz. vol. 178; p. 659.
Ostrander, Allen E., Ridgewood, N. J., assignor to American Car and Foundry Company, St. Louis, Mo. Car-underframe. No. 1,042,469; Oct. 29; Gaz. vol. 183; p. 1073.
Ostrander, Allen E., Ridgewood, N. J., assignor to American Car and Foundry Company, St. Louis, Mo. Car bolster and side bearing. No. 1,042,470; Oct. 29; Gaz. vol. 183; p. 1074.
Ostrander, Allen E., Paterson, N. J., assignor to American Car and Foundry Company, St. Louis, Mo. Car construction. No. 1,045,429; Nov. 26; Gaz. vol. 184; p. 919.
Ostrander, James H., Chicago, Ill. Nose-guard for eye-glasses. No. 1,028,773; June 4; Sp. p. 1517; Gaz. vol. 179; p. 236.
Ostrander, Sheridan. (See Strong and Ostrander.)
Ostroff, Harry, *et al.* (See Rosen, Simon L., assignor.)
Ostwald, Heinrich, Cologne, Germany. Ball-mill. No. 1,043,349; Nov. 5; Gaz. vol. 184; p. 109.
Oswald, Karl, Newark, N. J., and C. Flax, New York, N. Y. Bag-catch. No. 1,026,173; May 14; Sp. p. 2381; Gaz. vol. 178; p. 402.
Oswald, Paul E., Los Angeles, Cal., assignor to Western Electric Company, Chicago, Ill. Coin-collector. No. 1,017,454; Feb. 13; Sp. p. 2723; Gaz. vol. 175; p. 458.
Oswalt, Lorenza P., Bradley, Miss. Combined fertilizer-distributer and cotton-seed planter. No. 1,023,752; Apr. 16; Sp. p. 4190; Gaz. vol. 177; p. 736.
Otey, Robert J., Birmingham, Ala. Cattle-guard. No. 1,017,014; Feb. 13; Sp. p. 1740; Gaz. vol. 175; p. 304.
Otis Elevator Company. (See Atwood, Leonard, assignor.)
Otis Elevator Company. (See Baxter, William, Jr., assignor.)
Otis Elevator Company. (See Boening, Ernest, assignor.)
Otis Elevator Company. (See Boyce, John E., assignor.)
Otis Elevator Company. (See Brown, Thomas E., assignor.)
Otis Elevator Company. (See Dickinson, William N., Jr., assignor.)
Otis Elevator Company. (See Dillon, John, assignor.)
Otis Elevator Company. (See Gale, Ernest L., Sr., assignor.)
Otis Elevator Company. (See Ihlder, John D., assignor.)
Otis Elevator Company. (See Ihlder and Lutz, assignors.)
Otis Elevator Company. (See Larson, David, assignor.)
Otis Elevator Company. (See Lindquist, David L., assignor.)
Otis Elevator Company. (See Lindquist and Larson, assignors.)
Otis Elevator Company. (See Lutz, William D., assignor.)
Otis Elevator Company. (See Magnuson, Axel, assignor.)
Otis Elevator Company. (See Matthews, Edwin S., assignor.)
Otis Elevator Company. (See Moon, Edward W., assignor.)
Otis Elevator Company. (See Morris, Charles A., assignor.)
Otis Elevator Company. (See Pratt, Charles R., assignor.)
Otis Elevator Company. (See Rosenqvist, Conrad L., assignor.)
Otis Elevator Company. (See Seeberger, Charles D., assignor.)
Otis Elevator Company. (See Smith, Frank I., assignor.)
Otis Elevator Company. (See Smith, Robert J., assignor.)
Otis Elevator Company. (See Smith, Rudolph C., assignor.)
Otis Elevator Company. (See Sundh, August, assignor.)
Otis Elevator Company. (See Widmann and Wells, assignors.)
Otis, Spencer, Chicago, Ill. Dump-car. No. 1,033,342; July 23; Gaz. vol. 180; p. 978.
Otis, Spencer, assignor to National Dump Car Company, Chicago, Ill. Car. No. 1,019,911; Mar. 12; Sp. p. 1940; Gaz. vol. 176; p. 337.
Ott, Charles W., Pittsburg, Kans. Reel for clothes-lines. No. 1,020,440; Mar. 19; Sp. p. 3038; Gaz. vol. 176; p. 550.
Ott, Harvey N., assignor to Spencer Lens Company, Buffalo, N. Y. Microtome. No. 1,026,280; May 14; Sp. p. 2617; Gaz. vol. 178; p. 438.
Ott, Harvey N., and K. Leuchsenring, assignors to Spencer Lens Company, Buffalo, N. Y. Nose-piece for microscopes. No. 1,023,390; Apr. 16; Sp. p. 3506; Gaz. vol. 177; p. 624.
Ott. Mergenthaler Company. (See Lawrenz, Emil, assignor.)
Ott, Willard J., Chicago, Ill. Veneer-barrel-making machine. No. 1,022,970; Apr. 9; Sp. p. 2605; Gaz. vol. 177; p. 443.
Ottaway, William, assignor to The Aurora Automatic Machinery Company, Aurora, Ill. Explosive-engine. No. 1,017,993; Feb. 20; Sp. p. 3924; Gaz. vol. 175; p. 678.
Otte, Herman, Terre Haute, Ind. Hold-on safety-tap. No. 1,018,336; Feb. 20; Sp. p. 4631; Gaz. vol. 175; p. 796.
Otten, John H., Buffalo, N. Y. Ventilator. No. 1,044,565; Nov. 19; Gaz. vol. 184; p. 590.
Ottenheimer, Edward H., and E. C. Authier, Willimantic, Conn. Weaving-shuttle. No. 1,039,435; Sept. 24; Gaz. vol. 182; p. 852.
Otter, Einar, Winnipeg, Manitoba, Canada. Ticket-holder. No. 1,043,052; Oct. 29; Gaz. vol. 183; p. 1276.
Otterbein, Joseph J., Altoona, Pa. Railway-tie. No. 1,033,614; July 23; Gaz. vol. 180; p. 1068.
Otterson, Oscar, Butler, Pa. Railway-car construction. No. 1,040,572; Oct. 8; Gaz. vol. 183; p. 335.

Alphabetical list of patentees—Continued.

Otting, Karl, Ludwigsburg, Germany. Machine for making paper receptacles. No. 1,015,268; Jan. 16; Sp. p. 4795; Gaz. vol. 174; p. 807.
Ottinger, Arthur M., Springtown, Ark. Pruning implement. No. 1,023,093; Apr. 9; Sp. p. 2850; Gaz. vol. 177; p. 484.
Ottmann, Heinrich, Munich, Germany. Making insulating building material. No. 1,028,903; June 11; Sp. p. 1816; Gaz. vol. 179; p. 316.
Ottmann, William. (See Rider, Herbert E., assignor.)
Otto, Albert A., assignor of one-half to E. C. Miller, Pittsburgh, Pa. Drip-pan. No. 1,017,455; Feb. 13; Sp. p. 2724; Gaz. vol. 175; p. 458.
Otto, August, Jr., Sandwich, Ill. Hay-loader. No. 1,027,885; May 28; Sp. p. 6163; Gaz. vol. 178; p. 1057.
Otto, Emil E., assignor of one-half to A. Herskovitz, Chicago, Ill. Machine for pressing and drying strips of fabric and cutting them into lengths. No. 1,044,687; Nov. 19; Gaz: vol. 184; p. 634.
Oudsteyn, Johan D., Chicago, Ill. Renovating butter. No. 1,042,471; Oct. 29; Gaz. vol. 183; p. 1074.
Ough, Joseph M., Oakland, and W. E. Hubbard, San Francisco, Cal. Double-acting pump. No. 1,020,113; Mar. 12; Sp. p. 2363; Gaz. vol. 176; p. 404.
Ouren, John B., Hanska, Minn. Corn-harvester. No. 1,039,180; Sept. 24; Gaz. vol. 182; p. 762.
Outcalt, Andrew S., Rockbridge, Wis. Wing for flying-machines. No. 1,013,560; Jan. 2; Sp. p. 1021; Gaz. vol. 174; p. 164.
Outterside, James W., Winnipeg, Manitoba, Canada. Revolving dead-center for lathes. No. 1,032,496; July 16; Gaz. vol. 180; p. 653.
Over, Ernest, assignor of one-half to D. Kellaher, Portland, Oreg. Nozzle for water-bags. No. 1,014,607; Jan. 9; Sp. p. 3323; Gaz. vol. 174; p. 551.
Overbagh & Ayers Manufacturing Company. (See Overbagh and Brent, assignors.)
Overbagh, Franklin. (See Overbagh and Brent.)
Overbagh, Franklin, Evanston, and I. H. Brent, assignors to Overbagh & Ayers Manufacturing Company, Chicago, Ill. Lamp-guard. No. 1,044,566; Nov. 19; Gaz. vol. 184; p. 590.
Overbagh, William F. and F., and I. H. Brent, assignors to Overbagh and Ayres Manufacturing Company, Chicago, Ill. Electric-light fixture. No. 1,017,267; Feb. 13; Sp. p. 2307; Gaz. vol. 175; p. 393.
Overbeke, John, Cleveland, Ohio. Sprayer. No. 1,030,119; June 18; Sp. p. 4460; Gaz. vol. 179; p. 771.
Overholt, Aaron B., Constantine, Mich. Shoe-lace roller. No. 1,015,583; Jan. 23; Sp. p. 5506; Gaz. vol. 174; p. 942.
Overholt, Edwin E., assignor to Modern Compressed Air Cleaning Company, Washington, D. C. Renovating and disinfecting device. No. 1,016,435; Feb. 6; Sp. p. 439; Gaz. vol. 175; p. 69.
Overlander, Jacob A., White Plains, N. Y. Wrench. No. 1,014,251; Jan. 9; Sp. p. 2590; Gaz. vol. 174; p. 432.
Overmyer, Charles G., and G. F. Collins, Coffeyville, Kans. Mail-box. No. 1,021,792; Apr. 2; Sp. p. 75; Gaz. vol. 177; p. 16.
Overstrom Concentrator Company. (See Overstrom, Gustave A., assignor.)
Overstrom, Gustave A., Chicago, Ill., assignor to Overstrom Concentrator Company, Butte, Mont. Concentrating-table. No. 1,026,764; May 21; Sp. p. 3691; Gaz. vol. 178; p. 639.
Overton Adjustable Roof Joint Manufacturing Company. (See Overton, Charles A., assignor.)
Overton, Charles A., assignor to Overton Adjustable Roof Joint Manufacturing Company, Coeur d'Alene, Idaho. Roof-joint. No. 1,031,577; July 2; Gaz. vol. 180; p. 253.
Overton, Ralph T., Staatsburg, N. Y. Fountain blacking-brush. No. 1,031,662; July 2; Gaz. vol. 180; p. 282.
Owen, Alfred D., Fresno, Cal. Gage. No. 1,017,994; Feb. 20; Sp. p. 3926; Gaz. vol. 175; p. 679.
Owen, Alfred D., Fresno, Cal. Compass. No. 1,017,995; Feb. 20; Sp. p. 3927; Gaz. vol. 175; p. 679.
Owen, Edwin G., Wysox, Pa. Free-running wheel. No. 1,032,079; July 9; Gaz. vol. 180; p. 466.
Owen, Felix S., Billings, Mont. Indicator-lock. No. 1,037,042; Aug. 27; Gaz. vol. 181; p. 997.
Owen, George D. (See Oatman, Clarence E., assignor.)
Owen, Herbert W., Dover, N. H., assignor to Draper Company, Hopedale, Mass. Loose-warp take-up. No. 1,027,886; May 28; Sp. p. 6164; Gaz. vol. 178; p. 1058.
Owen, Herbert W., Dover, N. H., assignor to Draper Company, Hopedale, Mass. Loose-warp take-up. No. 1,027,887; May 28; Sp. p. 6167; Gaz. vol. 178; p. 1058.
Owen, Herbert W., Dover, N. H., assignor to Draper Company, Hopedale, Mass. Spinning-frame. No. 1,041,665; Oct. 15; Gaz. vol. 183; p. 737.
Owen, Herbert W., and R. N. Welcome, Dover, N. H., assignors to Draper Company, Hopedale, Mass. Warper. No. 1,026,600; May 14; Sp. p. 3295; Gaz. vol. 178; p. 544.
Owen, Hillery O., Corpus Christi, Tex. Weed-killing composition. No. 1,039,317; Sept. 24; Gaz. vol. 182; p. 812.
Owen, Horace F. (See Trabue and Owen.)
Owen, Hugh W., Chicago, Ill. Making leather-covered hooks. No. 1,030,425; June 25; Sp. p. 5157; Gaz. vol. 179; p. 918.
Owen, James W., Philadelphia, Pa., assignor to Victor Talking Machine Company. Making sound-records. No. 1,033,909; July 30; Gaz. vol. 180; p. 1193.
Owen Machine Tool Company, The. (See Watts and Eberle, assignors.)
Owen, Oscar L., assignor to The Whitin Machine Works, Whitinsville, Mass. Heilman combing-machine. No. 1,019,273; Mar. 5; Sp. p. 582; Gaz. vol. 176; p. 93.
Owen, Oscar L., assignor to The Whitin Machine Works, Whitinsville, Mass. Sliver-guide. No. 1,047,438; Dec. 17; Gaz. vol. 185; p. 640.
Owen, Romaine, Jr., Gordon, Wash. Weeder. No. 1,028,059; May 28; Sp. p. 6507; Gaz. vol. 178; p. 1113.
Owen, Thomas R., assignor of one-half to E. W. Peck, Los Angeles, Cal. Pencil-printing machine. No. 1,028,381; June 4; Sp. p. 692; Gaz. vol. 179; p. 105.
Owen, Walter W., Youngstown, Ohio. Bevel-protractor. No. 1,015,242; Jan. 16; Sp. p. 4733; Gaz. vol. 174; p. 798.
Owens, Benjamin F., Rockwell City, Iowa. Grain-door for cars. No. 1,019,274; Mar. 5; Sp. p. 583; Gaz. vol. 176; p. 94.
Owens Bottle Machine Company, The. (See Owens, Michael J., assignor.)
Owens, Charles, Chattanooga, Tenn. Means for treating type-writer ribbons. No. 1,049,139; Dec. 31; Gaz. vol. 185; p. 1291.
Owens, Charles T., Ardmore, Okla. Rein-holder. No 1,034,823; Aug. 6; Gaz. vol. 181; p. 142.
Owens, Edgar E., Cambridge City, Ind. Mechanical fishing device. No. 1,022,377; Apr. 2; Sp. p. 1298; Gaz. vol. 177; p. 210.
Owens, Jasper C., Los Angeles, Cal. Knife. No. 1,013,844; Jan. 2; Sp. p. 1658; Gaz. vol. 174; p. 263.
Owens, John B., Zanesville, Ohio. Facing-tile. No. 1,024,355; Apr. 23; Sp. p. 5535; Gaz. vol. 177; p. 970.
Owens, Michael F. (See Cutler and Owens.)
Owens, Michael F., assignor to Automatic Refrigerating Company, Hartford, Conn. Electrical low-speed cut-out. No. 1,047,557; Dec. 17; Gaz. vol. 185; p. 683.
Owens, Michael F., and A. T. Marshall, assignors to Automatic Refrigerating Company, Hartford, Conn. Starting device for electric motors. No. 1,033,117; July 23; Gaz. vol. 180; p. 901.
Owens, Michael J., assignor to The Owens Bottle Machine Company, Toledo, Ohio. Valve for bottom-dump cars. No. 1,026,824; May 21; Sp. p. 3807; Gaz. vol. 178; p. 659.
Owens, Michael J., assignor to The Toledo Glass Company, Toledo, Ohio. Glass-tank. No. 1,034,824; Aug. 6; Gaz. vol. 181; p. 143.
Owens, Richard L., Minneapolis, Minn. Cleaning-rack for grain-separators. No. 1,029,507; June 11; Sp. p. 3118; Gaz. vol. 179; p. 523.
Owens, Robert J. (See Asplund, Charles F., assignor.)
Owers, Alfred E., Brooklyn, N. Y. Shoe. No. 1,043,350; Nov. 5; Gaz. vol. 184; p. 109.
Ownby, Albert W., Denison, Tex. Fan for sewing-machines. No. 1,026,923; May 21; Sp. p. 4046; Gaz. vol. 178; p. 694.
Oxine Gas Manufacturing Company. (See Herndon, Joseph R., assignor.)
Oxnard, Henry E., Newton, Mass. Expansible chamber. No. 1,038,636; Sept. 17; Gaz. vol. 182; p. 562.
Oxweld Acetylene Company. (See Lightfoot, Cecil, assignor.)
Oxweld Acetylene Company. (See Beck, Charles W., assignor.)
Ozias, Albert N., deceased, Minneapolis; R. V. L. Haxby and D. L. Fairchild, Hennepin county, Minn., administrators. Temperature-indicating instrument. No. 1,038,426; Sept. 10; Gaz. vol. 182; p. 454.
Ozias, George W., *et al.* (See Lyons, John J., assignor.)
P. Goldsmith's Sons. (See Wermeling, Louis, assignor.)
P. Lorillard Company. (See Whitehead, Howell G., assignor.)
P. C. Murphy Trunk Company. (See Perry, Henry T. V., assignor.)
P. C. Murphy Trunk Company. (See Schmelzer, Paul H., assignor.)
P. D. Beckwith, Incorporated. (See Beckwith, Arthur K., assignor.)
P'Pool, Frank E., Snyder, Tex. Attachment for kitchen cabinets. No. 1,023,593; Apr. 16; Sp. p. 3912; Gaz. vol. 177; p. 688.
Paal, Alexander, Osnabrück, Germany. Apparatus for baling paper and the like cuttings. No. 1,040,396; Oct. 8; Gaz. vol. 183; p. 274.
Paal, Carl, Erlangen, assignor to Joseph Crossfield & Sons Limited, Bank Quay 1, Warrington, England. Reduction of fats and unsaturated fatty acids. No. 1,023,753; Apr. 16; Sp. p. 4191; Gaz. vol. 177; p. 736.
Pac-Rite Company. (See Lundberg, August J., assignor.)
Pachter, Peter, Chicago, Ill. Pamphlet-covering machine. No. 1,033,265; July 23; Gaz. vol. 180; p. 953.
Pacific Coast Match Company. (See Parker, William H., assignor.)

Alphabetical list of patentees—Continued.

Pacific Flush Tank Company. (See Cox, James W., assignor.)
Pacific Flush Tank Company. (See Miller, Samuel F., assignor.)
Pacific Gas & Electric Company. (See Knopp, Otto A., assignor.)
Pacific Oil Stove Company. (See Sloan, Samuel A., assignor.)
Pacific Refrigerating Machine Company. (See Bell, Fred C., assignor.)
Pack, Earle A., and R. A. Moon, Weiser, Idaho. Lock bolt and nut. No. 1,017,583; Feb. 13; Sp. p. 2958; Gaz. vol. 175; p. 499.
Pack, Evan B., Covington, Va. Nut-lock. No. 1,034,289; July 30; Gaz. vol. 180; p. 1327.
Pack, Rufus F., Cedar Vale, Kans. Mill for shredding alfalfa. No. 1,025,480; May 7; Sp. p. 833; Gaz. vol. 178; p. 130.
Packard Company, The. (See Gamble, Frederick O., assignor.)
Packard Company, The. (See Magnuson, Nels, assignor.)
Packard, Edwin D., Marion, Ohio. Steam-separator. No. 1,019,350; Mar. 5; Sp. p. 775; Gaz. vol. 176; p. 119.
Packard, Frank H., Ceylon, Minn. Hollow-concrete-wall mold. No. 1,030,480; June 25; Sp. p. 5286; Gaz. vol. 179; p. 938.
Packard, James W., Lakewood, N. Y., assignor, by mesne assignments, to Packard Motor Car Company, Detroit, Mich. Motor-controlling mechanism for motor-vehicles. No. 1,022,751; Apr. 9; Sp. p. 2152; Gaz. vol. 177; p. 368.
Packard, James W., Lakewood, N. Y., assignor, by mesne assignments, to Packard Motor Car Company, Detroit, Mich. Water-cooling system for hydrocarbon-engines. No. 1,034,728; Aug. 6; Gaz. vol. 181; p. 109.
Packard Motor Car Company. (See Beall, Frank F., assignor.)
Packard Motor Car Company. (See Huff, Russell, assignor.)
Packard Motor Car Company. (See Link, Vincent, assignor.)
Packard Motor Car Company. (See Loomis, Allen, assignor.)
Packard Motor Car Company. (See Packard, James W., assignor.)
Packard Motor Car Company. (See Schmidt, Charles, assignor.)
Packard Motor Car Company. (See Tibbetts, Milton, assignor.)
Packard Motor Car Company. (See Waldon, Sidney D., assignor.)
Packer, Marion E., Rockwell City, Iowa. Metallic tie and rail-chair. No. 1,041,337; Oct. 15; Gaz. vol. 183; p. 629.
Packham, Frank R., assignor to The American Seeding Machine Company, Springfield, Ohio. Corn-planter. No. 1,016,766; Feb. 6; Sp. p. 1193; Gaz. vol. 175; p. 183.
Packham, Frank R., assignor to The American Seeding Machine Company, Springfield, Ohio. Clutch mechanism. No. 1,023,221; Apr. 16; Sp. p. 3168; Gaz. vol. 177; p. 567.
Packham, Frank R., assignor to The American Seeding Machine Company, Springfield, Ohio. Corn-planter. No. 1,029,711; June 18; Sp. p. 3578; Gaz. vol. 179; p. 631.
Packham, Frank R., assignor to The American Seeding Machine Company, Springfield, Ohio. Seeding-machine. No. 1,029,712; June 18; Sp. p. 3580; Gaz. vol. 179; p. 632.
Packham, Frank R., assignor to The American Seeding Machine Company, Springfield, Ohio. Seeding-machine. No. 1,039,788; Oct. 1; Gaz. vol. 183; p. 40.
Packscher, Arthur, Berlin, Germany. Iron frame for windows. No. 1,040,746; Oct. 8; Gaz. vol. 183; p. 397.
Pacziga, Frank, New York, N. Y. Boiler. No. 1,015,065; Jan. 16; Sp. p. 4400; Gaz. vol. 174; p. 739.
Paczynski, Joseph A., Chicago, Ill. Piano-footstool. No. 1,040,397; Oct. 8; Gaz. vol. 183; p. 274.
Padbury, John J., assignor to Livingston Manufacturing Company, Rockland, Me. Pneumatic tool. No. 1,018,983; Feb. 27; Sp. p. 6107; Gaz. vol. 175; p. 1050.
Padden, David H., and F. J. McAdams, Chicago, Ill. Gate. No. 1,031,286; July 2; Gaz. vol. 180; p. 154.
Paddington, John P., New York, N. Y. Safety-razor. No. 1,017,166; Feb. 13; Sp. p. 2080; Gaz. vol. 175; p. 358.
Paddock, Robert G. (See Wrinkle and Paddock.)
Padelford, Clementine M., Canandaigua, N. Y. Skirt-marker. No. 1,045,430; Nov. 26; Gaz. vol. 184; p. 919.
Paden, William D., *et al.* (See Parker, William A., assignor.)
Padley, Walter R., Coolidge, Kans. Ironing-table and washbench. No. 1,035,896; Aug. 20; Gaz. vol. 181; p. 574.
Padrick, Benjamin F., Portland, Oreg. Saw-carrying case. No. 1,020,050; Mar. 12; Sp. p. 2218; Gaz. vol. 176; p. 382.
Padrick, Benjamin F., Portland, Oreg. Saw-clamp. No. 1,024,743; Apr. 30; Sp. p. 6468; Gaz. vol. 177; p. 1140.
Paer, Louis, Paterson, N. J. Device for preventing the freezing of house-plumbing. No. 1,043,137; Nov. 5; Gaz. vol. 184; p. 31.
Paetzold, Magda E. E., assignor to A. L. Wex, Hamburg, Germany. Snap-button. No. 1,031,022; July 2; Gaz. vol. 180; p. 61.
Paffrath, John. (See Bottlander and Paffrath.)
Page, Albert A., East Haven, assignor to Sargent & Company, New Haven, Conn. Padlock. No. 1,029,942; June 18; Sp. p. 4097; Gaz. vol. 179; p. 711.
Page, Albert A., East Haven, assignor to Sargent & Company, New Haven, Conn. Sash-center. No. 1,031,287; July 2; Gaz. vol. 180; p. 155.
Page, Albert A., assignor to Sargent & Company, New Haven, Conn. Tongue-and-groove plane. No. 1,042,139; Oct. 22; Gaz. vol. 183; p. 934.
Page, Arden C., Rockford, Ohio. Umbrella. No. 1,032,234; July 9; Gaz. vol. 180; p. 520.
Page, Arthur, Huddersfield, England. Trousers. No. 1,040,747; Oct. 8; Gaz. vol. 183; p. 398.
Page, David P., assignor to Grand Rapids Brush Company, Grand Rapids, Mich. Brush-machine. No. 1,014,973; Jan. 16; Sp. p. 4208; Gaz. vol. 174; p. 708.
Page, Francis T., Otaki, New Zealand. Straining appliance. No. 1,024,523; Apr. 30; Sp. p. 5972; Gaz. vol. 177; p. 1063.
Page, Frank C. B., New York, assignor to E. W. Bliss Company, Brooklyn, N. Y. Metal-working machine. No. 1,026,825; May 21; Sp. p. 3809; Gaz. vol. 178; p. 660.
Page, George K. (See Cooper, Taneyhill, and Page.)
Page, George W., Campbell, Cal. Pump. No. 1,020,051; Mar. 12; Sp. p. 2220; Gaz. vol. 176; p. 382.
Page, Herbert J., assignor of one-fourth to J. F. Hartz and one-fourth to A. Hyman, Hamilton, Canada. Seal-lock. No. 1,013,891; Jan. 9; Sp. p. 1790; Gaz. vol. 174; p. 307.
Page, John W., Adrian, Mich. Wire-fence fabric. No. 1,023,439; Apr. 16; Sp. p. 3592; Gaz. vol. 177; p. 639.
Page, John W., Quitman, Ark. Railway signaling device. No. 1,042,028; Oct. 22; Gaz. vol. 183; p. 898.
Page, Marshall H., San Francisco, Cal. Check-perforator. No. 1,039,789; Oct. 1; Gaz. vol. 183; p. 41.
Page, Oliver W., Ione, Wash. Automatic controlling device for vehicle-lamps. No. 1,046,010; Dec. 3; Gaz. vol, 185; p. 72.
Page, Orville L., Des Moines, Iowa. Heating device for carbureters. No. 1,048,576; Dec. 31; Gaz. vol. 185; p. 1095.
Page, Robert R., New York, N. Y., and F. J. Black, Philadelphia, Pa. Etching-machine. No. 1,013,892; Jan. 9; Sp. p. 1791; Gaz. vol. 174; p. 307.
Page, William N. (See Hess, Louis F., assignor.)
Pagelsen, Edward N., Detroit, Mich. Cutting-off mechanism for tube-machines. No. 1,033,454; July 23; Gaz. vol. 180; p. 1014.
Pagelsen, Edward N., Detroit, Mich., assignor, by mesne assignments, to T. W. Jenks, Pittsburgh, Pa. Tension member for concrete construction. No. 1,032,856; July 16; Gaz. vol. 180; p. 776.
Pages, Paul H., assignor of three-twentieths to W. W. Heroy. New York, N. Y. Aeroplane suspension-railway. No. 1,037,973; Sept. 10; Gaz. vol. 182; p. 302.
Pagliabue, Richard, assignor to American Silk & Cotton Skeins Printing Company, Paterson, N. J. Silk-printing machine. No. 1,042,029; Oct. 22; Gaz. vol. 183; p. 898.
Pagliano, Francesco, Turin, Italy. Elastic suspension device for motor-cars. No. 1,034,497; Aug. 6; Gaz. vol. 181; p. 33.
Pagliuchi, Frank D., Mantua, Cuba. Hydrostatic pump. No. 1,016,767; Feb. 6; Sp. p. 1195; Gaz. vol. 175; p. 184.
Pagliuchi, Frank D., New York, N. Y. Hydrostatic pump. No. 1,016,768; Feb. 6; Sp. p. 1202; Gaz. vol. 175; p. 184.
Pagnod, Arthur J., New York, N. Y. Electric-light attachment. No. 1,024,417; Apr. 23; Sp. p. 5686; Gaz. vol. 177; p. 990.
Pahmeyer, Frederick O., assignor to Heine Safety Boiler Company, St. Louis, Mo. Baffle for water-tube boilers and constructing same. No. 1,032,697; July 16; Gaz. vol. 180; p. 723.
Pailliard-Turenne, Emile L. P., Paris, France. Occulting device for flash-lights for optical telegraphy. No. 1,025,015; Apr. 30; Sp. p. 7026; Gaz. vol. 177; p. 1234.
Pain, Robert W., New York, N. Y. Adjustable music-box. No. 1,021,471; Mar. 26; Sp. p. 5268; Gaz. vol. 176; p. 950.
Pain, Willard S., and F. L. Wood, Meriden, Conn., assignors to Aeolian Company, New York, N. Y. Music-spool head. No. 1,016,229; Jan. 30; Sp. p. 6848; Gaz. vol. 174; p. 1190.
Painchaud, Ludger, Salem, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Cutting-die. No. 1,030,529; June 25; Sp. p. 5436; Gaz. vol. 179; p. 955.
Painchaud, Pierre A., Plessisville, Quebec, Canada. Starting mechanism for internal-combustion engines. No. 1,035,383; Aug. 13; Gaz. vol. 181; p. 364.
Paine, Daniel W. (See Goodwin, Margaret B., assignor.)
Paine, Julia A., administratrix. (See Paine, Timothy J.)

Alphabetical list of patentees—Continued.

Paine, Mathew H., Glenellyn, Ill. Expansion-bolt. No. 1,031,462; July 2; Gaz. vol. 180; p. 214.
Paine, Sidney B., Newton, Mass., assignor to General Electric Company. Shock-absorbing rosette. No. 1,022,797; Apr. 9; Sp. p. 2240; Gaz. vol. 177; p. 384.
Paine, Timothy J., deceased; J. A. Paine, administratrix, Watertown, Mass. Shaft-straightening machine. No. 1,037,301; Sept. 3; Gaz. vol. 182; p. 41.
Paine, W. F. (See Parsley, Samuel E., assignor.)
Paine, William E., New York, N. Y. Traction-vehicle. No. 1,025,714; May 7; Sp. p. 1336; Gaz. vol. 178; p. 208.
Paine, William E., New York, N. Y. Means for braking traction-vehicles. No. 1,037,167; Aug. 27; Gaz. vol. 181; p. 1039.
Paine, William E., New York, N. Y. Traction-vehicle. No. 1,037,168; Aug. 27; Gaz. vol. 181; p. 1039.
Palen, Frederick P. (See Burlingham and Palen.)
Palin, Frank E. and R. A., San Mateo, Cal. Motor-cycle rear-seat spring. No. 1,026,115; May 14; Sp. p. 2269; Gaz. vol. 178; p. 383.
Palin, Ronald A. (See Palin, Frank E. and R. A.)
Palis, August L., Upland, Cal. Envelop-opener. No. 1,031,578; July 2; Gaz. vol. 180; p. 253.
Pallas, Joseph, Jr., Thurston, Nebr. Railway-tie. No. 1,028,597; June 4; Sp. p. 1164; Gaz. vol. 179; p. 177.
Pallweber, Joseph, Mannheim, Germany. Portable cash-box. No. 1,030,265; June 18; Sp. p. 4783; Gaz. vol. 179; p. 821.
Palm, Henry S., Reading, Pa. Dumping-wagon. No. 1,035,038; Aug. 6; Gaz. vol. 181; p. 211.
Palm, Robert L. G., Verona, N. J. Emergency-exit-door fastener. No. 1,029,626; June 18; Sp. p. 3375; Gaz. vol. 179; p. 601.
Palmenberg, Emil T., New York, N. Y. Garment-form. No. 1,042,260; Oct. 22; Gaz. vol. 183; p. 974.
Palmer, Bartlett J. (See Clayton, Bert A., assignor.)
Palmer, Bradley W., *et al.*, trustees. (See McMullen, George B., assignor.)
Palmer, Bradley W., *et al.*, trustees. (See McMullen, George W. and G. B., assignors.)
Palmer, Bradley W., *et al.*, trustees. (See Roberts, John H., assignor.)
Palmer, Charles, Catford, by R. Briden, London, England, receiver in lunacy of said Palmer. Cash-register. No. 1,033,455; July 23; Gaz. vol. 180; p. 1015.
Palmer, Charles, Catford, by R. Briden, London, England, receiver in lunacy of said Palmer. Cash and autographic register. No. 1,033,456; July 23; Gaz. vol. 180; p. 1015.
Palmer, Charles, London, England, assignor to The National Cash Register Company, Dayton, Ohio. Cash-register. No. 1,046,011; Dec. 3; Gaz. vol. 185; p. 72.
Palmer, Charles G. (See Greene and Palmer.)
Palmer, Charles H., Akron, and M. Paridon, Barberton, Ohio, assignors to The Diamond Match Company, Chicago, Ill. Machine for packing matches. No. 1,016,436; Feb. 6; Sp. p. 445; Gaz. vol. 175; p. 70.
Palmer, Charles R., Cincinnati, Ohio. Pneumatic spring for vehicles. No. 1,013,808; Jan. 2; Sp. p. 1568; Gaz. vol. 174; p. 250.
Palmer, Clayton E., Harvard, Ill. Traction-wheel fender. No. 1,046,104; Dec. 3; Gaz. vol. 185; p. 105.
Palmer, David L., Worthington, Fla. Hand-car. No. 1,018,264; Feb. 20; Sp. p. 4498; Gaz. vol. 175; p. 773.
Palmer, Don H., Seattle, Wash. Speculum. No. 1,030,530; June 25; Sp. p. 5439; Gaz. vol. 179; p. 955.
Palmer, El Ray G., assignor to W. A. Daniels, Chicago, Ill. Coating-machine. No. 1,026,765; May 21; Sp. p. 3697; Gaz. vol. 178; p. 639.
Palmer, Francis N., Kenosha, Wis. Sheath-applying means. No. 1,046,106; Dec. 3; Gaz. vol. 185; p. 105.
Palmer, George W., Duluth, Minn. Oiler. No. 1,043,968; Nov. 12; Gaz. vol. 184; p. 356.
Palmer, Granville E., Hartford, Conn. Sealing device. No. 1,014,252; Jan. 9; Sp. p. 2592; Gaz. vol. 174; p. 432.
Palmer, Granville E., Brookline, Mass. Locking device. No. 1,040,573; Oct. 8; Gaz. vol. 183; p. 335.
Palmer, Granville E., assignor to The Hart Manufacturing Company, Hartford, Conn. Wall-case. No. 1,016,030; Jan. 30; Sp. p. 6458; Gaz. vol. 174; p. 1123.
Palmer, Granville E., Hartford, Conn., assignor, by mesne assignments, to The Metropolitan Engineering Company. Case for meter connection-blocks. No. 1,028,268; June 4; Sp. p. 451; Gaz. vol. 179; p. 65.
Palmer, Granville E., Winchester, Mass., assignor, by mesne assignments, to The Metropolitan Engineering Company. Casing. No. 1,036,317; Aug. 20; Gaz. vol. 181; p. 720.
Palmer, Harry A., assignor to Foster, Merriam and Company, Meriden, Conn. Caster. No. 1,023,222; Apr. 16; Sp. p. 3171; Gaz. vol. 177; p. 568.
Palmer, Harry B., assignor, by mesne assignments, to G. E. Sly, New York, N. Y. Employee's time-recorder. No. 1,025,879; May 7; Sp. p. 1700; Gaz. vol. 178; p. 266.
Palmer, Harvey D. (See Sanderson, Palmer, and Hodges.)
Palmer, Herman H., assignor of one-half to F. J. Seel, Charleston, S. C. Shade-holder for incandescent lamps. No. 1,027,888; May 28; Sp. p. 6168; Gaz. vol. 178; p. 1059.
Palmer, Isaac E., Middletown, Conn. Trackless power-driven vehicle. No. 1,022,151; Apr. 2; Sp. p. 846; Gaz. vol. 177; p. 134
Palmer, Isaac E., Middletown, Conn. Hammock. (Reissue.) No. 13,401; Apr. 9; Sp. p. 2917; Gaz. vol. 177; p. 497.
Palmer, Isaac E., Middletown, Conn. Apparatus for conditioning textile material. No. 1,033,925; July 30; Gaz. vol. 180; p. 1198.
Palmer, Isaac E., Middletown, Conn. Conditioning textile material. No. 1,033,926; July 30; Gaz. vol. 180; p. 1199.
Palmer, Isaac E., assignor to The I. E. Palmer Co., Middletown, Conn. Couch-hammock. No. 1,016,894; Feb. 6; Sp. p. 1453; Gaz. vol. 175; p. 225.
Palmer, Isaac E., assignor to The I. E. Palmer Co., Middletown, Conn. Combined back-rest and wind-shield. No. 1,022,696; Apr. 9; Sp. p. 2012; Gaz. vol. 177; p. 348.
Palmer, Isaac E., assignor to The I. E. Palmer Co., Middletown, Conn. Folding unitary screen. No. 1,023,094; Apr. 9; Sp. p. 2851; Gaz. vol. 177; p. 485.
Palmer, Isaac E., assignor to The I. E. Palmer Co., Middletown, Conn. Couch-hammock. No. 1,030,481; June 25; Sp. p. 5290; Gaz. vol. 179; p. 938.
Palmer, Isaac E., assignor to The I. E. Palmer Co., Middletown, Conn Couch-hammock. No. 1,030,482; June 25; Sp. p. 5291; Gaz. vol. 179; p. 938.
Palmer, Isaac E., assignor to The I. E. Palmer Co., Middletown, Conn. Bedstead-support for couch-hammocks. No. 1,030,483; June 25; Sp. p. 5294; Gaz. vol. 179; p. 939.
Palmer, Isaac E., assignor to The I. E. Palmer Co., Middletown, Conn. Reversible-mattress-securing means for couch-hammocks. No. 1,030,484; June 25; Sp. p. 5297; Gaz. vol. 179; p. 939.
Palmer, Isaac E., assignor to The I. E. Palmer Co., Middletown, Conn. Couch-hammock and frame therefor. No. 1,030,485; June 25; Sp. p. 5298; Gaz. vol. 179; p. 939.
Palmer, Isaac E., assignor to The I. E. Palmer Co., Middletown, Conn. Bedstead-support for couch-hammocks. No. 1,030,486; June 25; Sp. p. 5300; Gaz. vol. 179; p. 940.
Palmer, Isaac E., assignor to The I. E. Palmer Co., Middletown, Conn. Reversible-face couch-hammock. No. 1,030,487; June 25; Sp. p. 5003; Gaz. vol. 179; p. 940.
Palmer, Isaac E., assignor to The I. E. Palmer Co., Middletown, Conn. Hammock or other support. No. 1,031,146; July 2; Gaz. vol. 180; p. 106.
Palmer, James F., Greensboro, assignor of one-half to S. T. Ellis, Hagan, Ga. Subsoiler attachment for plows. No. 1,021,793; Apr. 2; Sp. p. 76; Gaz. vol. 177; p. 16.
Palmer, Joel C. R., Brooklyn, assignor to Western Electric Company, New York, N. Y. Telephone transmission system. No. 1,045,600; Nov. 26; Gaz. vol. 184; p. 981.
Palmer, John H., and E. W. Salmon, Jr., Baltimore, Md. Machine for joining sheet-metal plates. No. 1,020,154; Mar. 12; Sp. p. 2441; Gaz. vol. 176; p. 416.
Palmer, John L., and C. N. Wheeler, Peoria, Ill. Lighting-fixture. No. 1,029,556; June 11; Sp. p. 3224; Gaz. vol. 179; p. 540.
Palmer, John L., and C. N. Wheeler, Peoria, Ill. Electric fixture. No. 1,029,557; June 11; Sp. p. 3225; Gaz. vol. 179; p. 541.
Palmer, John L., and C. N. Wheeler, Peoria, Ill. Electric fixture. No. 1,029,558; June 11; Sp. p. 3228; Gaz. vol. 179; p. 541.
Palmer, John M., assignor to Universal Tool Company, Chicago, Ill. Lathe attachment. No. 1,030,323; June 25; Sp. p. 4939; Gaz. vol. 179; p. 881.
Palmer, John M., Chicago Heights, assignor to Universal Tool Company, Chicago, Ill. Tool-holding appliance. No. 1,041,153; Oct. 15; Gaz. vol. 183; p. 566.
Palmer, Lyndon C., assignor to The F. N. Burt Company, Limited, Buffalo, N. Y. Labeling-machine. No. 1,019,351; Mar. 5; Sp. p. 778; Gaz. vol. 176; p. 119.
Palmer, Lyndon C., assignor to The F. N. Burt Company Limited, Buffalo, N. Y. Gluing apparatus. No. 1,033,266; July 23; Gaz. vol. 180; p. 954.
Palmer, Lyndon C., Buffalo, N. Y., assignor, by mesne assignments, to F. N. Burt Company, Limited. Labeling-machine. No. 1,034,640; Aug. 6; Gaz. vol. 181; p. 78.
Palmer, Martin C., Des Moines, Iowa. Hanger for screens and sash. No. 1,019,912; Mar. 12; Sp. p. 1944; Gaz. vol. 176; p. 337.
Palmer, Philip S., Spokane, Wash. Horseshoe-calk. No. 1,022,867; Apr. 9; Sp. p. 2375; Gaz. vol. 177; p. 407.
Palmer, Roy M., Washington, D. C. Aerostructural balance. No. 1,039,181; Sept. 24; Gaz. vol. 182; p. 762.
Palmer, Scott A., San Diego, Cal. Sign-flasher. No. 1,031,863; July 9; Gaz. vol. 180; p. 395.
Palmer, T. D. (See Burns, Henry H., assignor.)
Palmer, Thomas A. (See Paridon and Palmer.)
Palmer, Walter E., Cicero, Ill., assignor to Union Typewriter Company, Jersey City, N. J. Type-writing machine. (Reissue.) No. 13,478; Oct. 15; Gaz. vol. 183; p. 754.
Palmgren, Carl A., Chicago, Ill. Drill and chuck. No. 1,041,338; Oct. 15; Gaz. vol. 183; p. 629.

Alphabetical list of patentees—Continued.

Palmgren, Charles A., Chicago, Ill. Boring and turning bar and bar-holder. No. 1,014,412; Jan. 9; Sp. p. 2943; Gaz. vol. 174; p. 488.
Palmowsky, Stanislaus, New York, N. Y., assignor to The American Tobacco Company. Cigarette-machine. No. 1,029,397; June 11; Sp. p. 2908; Gaz. vol. 179; p. 485.
Palmros, Alexander, Fairmont, W. Va., assignor to The Pneumelectric Machine Company, Syracuse, N. Y. Electropneumatic tool. No. 1,022.000; Apr. 2; Sp. p. 532; Gaz. vol. 177; p. 84.
Palous, Léon, Berlin, Germany. Two-cycle explosion-motor. No. 1,041,154; Oct. 15; Gaz. vol. 183; p. 567.
Paltridge, R. W., *et al.* (See Krag, Erik L., assignor.)
Pampe, Franz, Halle-on-the-Saale, Germany. Distilling-column. No. 1,048,425; Dec. 24; Gaz. vol. 185; p. 1005.
Pamplin, Peter A., assignor to The Buck's Stove and Range Company, St. Louis, Mo. Base-burner. No. 1,023,167; Apr. 16; Sp. p. 3058; Gaz. vol. 177; p. 548.
Panalle, Anatole, New Orleans, La. Nut-lock. No. 1,031,579; July 2; Gaz. vol. 180; p. 253.
Pancoast, Alvin C., Cleveland, assignor of one-fourth to W. G. Pancoast, East Cleveland, Ohio. Culinary separating-machine. No. 1,015,337; Jan. 23; Sp. p. 4971; Gaz. vol. 174; p. 858.
Pancoast, George E., New York, N. Y. Printing-press. No. 1,028,485; June 4; Sp. p. 933; Gaz. vol. 179; p. 140.
Pancoast, William G. (See Pancoast, Alvin C., assignor.)
Pancoast, Zygmunt, Philadelphia, Pa. Sinker. No. 1,023,676; Apr. 16; Sp.. p. 4063; Gaz. vol. 177; p. 713.
Pancratz, Alexander J. and F. J., Denver, Colo. Station-indicator. No. 1,036,892; Aug. 27; Gaz. vol. 181; p. 946.
Pancratz, Frank J. (See Pancratz, Alexander J. and F. J.)
Pane, Martin F., Chicago, Ill. Nut-lock. No. 1,036,141; Aug. 20; Gaz. vol. 181; p. 659.
Pangburn, James O., Hector, N. Y. Knotter for grain-binders. No. 1,038.627; Sept. 17; Gaz. vol. 182; p. 562.
Pangratz, George C., assignor of one-half to J. T. Banahan, Athens, Ohio. Wrench. No. 1,026,174; May 14; Sp. p. 2383; Gaz. vol. 178; p. 402.
Panhorst, Charles G. (See Panhorst, Paul and C. G.)
Panhorst, Paul, assignor to Nathan Manufacturing Company, New York, N. Y. Liquid-gage. No. 1,013,809; Jan. 2; Sp. p. 1570; Gaz. vol. 174; p. 250.
Panhorst, Paul, assignor to Nathan Manufacturing Company, New York, N. Y. Locomotive-lubricator. No. 1,033,457; July 23; Gaz. vol. 180; p. 1016.
Panhorst, Paul and C. G., New York, N. Y. Bottle-closure. No. 1,018,923; Feb. 27; Sp. p. 5965; Gaz. vol. 175; p. 1027.
Pannicke, Oskar. (See Thoma and Pannicke.)
Pannier, William J., Jr., Pittsburgh, Pa. Stamp. No. 1,030,120; June 18; Sp. p. 4462; Gaz. vol. 179; p. 771.
Panscher, William, *et al.* (See Kelley, John W., assignor.)
Panther, Ferdinand C., Burlington, Iowa. Metallic receptacle. No. 1,030,121; June 18; Sp. p. 4463; Gaz. vol. 179; p. 771.
Pantlind, Fred Z. (See Annable, Warren W., assignor.)
Pantzer, Lalla M. (See Golby and Patterson, assignors.)
Paone, Vincenzo, New York, N. Y. Coffee and tea pot. No. 1,035,099; Aug. 6; Gaz. vol. 181; p. 233.
Papanek, Stepan, Chicago, Ill. Hat-pin-point protector. No. 1,037,043; Aug. 27; Gaz. vol. 181; p. 998.
Pape, Herman G., Buffalo, N. Y. Transmitter for telephonic or audiphonic systems. No. 1,025,992; May 14; Sp. p. 1962; Gaz. vol. 178; p. 339.
Pape, Peter. (See Müller, Johannsen, and Pape.)
Pape, Wilhelm, Charlottenburg, Germany, assignor to General Electric Company. Governing mechanism for mixed-pressure turbines. No. 1,029,311; June 11; Sp. p. 2690; Gaz. vol. 179; p. 456.
Pape, Wilhelm, Charlottenburg, Germany, assignor to General Electric Company. Governing mechanism for turbines. No. 1,029,312; June 11; Sp. p. 2693; Gaz. vol. 179; p. 457.
Papendry, Joseph N., East Liverpool, Ohio. Armor-plate. No. 1,014,510; Jan. 9; Sp. p. 3118; Gaz. vol. 174; p. 518.
Papeterie de la Seine. (See Herz, Ludwig, assignor.)
Papillon, Alfred, Mermenton, La. Delivery-valve for centrifugal pumps. No. 1,031,580; July 2; Gaz. vol. 180; p. 253.
Papp, George, New York, N. Y. Shoe-tongue supporter. No. 1,028,598; June 4; Sp. p. 1164; Gaz. vol. 179; p. 177.
Paquay, Michel, Lize-Seraing, Belgium. Washing-machine. No. 1,044,415; Nov. 12; Gaz. vol. 184; p. 509.
Paquette, Exilias, assignor to Lawrence Manufacturing Company, Lowell, Mass. Knitting-machine. No. 1,038.638; Sept. 17; Gaz. vol. 182; p. 562.
Paquette, Herman A., assignor to Smith & Phillips Manufacturing Company, Chicago, Ill. Lumber-rule. No. 1,044,811; Nov. 19; Gaz. vol. 184; p. 677.
Paquin, Joseph F., Fall River, Mass. Non-refillable bottle. No. 1,032,080; July 9; Gaz. vol. 180; p. 466.
Para, John, Elizabeth, N. J. Trolley. No. 1,047,692; Dec. 17; Gaz. vol. 185; p. 731.
Paradis, Albert, Philadelphia, Pa., assignor to Samuel Sternberger Company. Box. No. 1,027,561; May 28; Sp. p. 5421; Gaz. vol. 178; p. 949.
Paradis, Albert, Philadelphia, Pa., assignor to Samuel Sternberger Company. Shirt-sleeve. No. 1,045,737; Nov. 26; Gaz. vol. 184; p. 1029.
Paragon Heater Company, The. (See MacDonald, John W., assignor.)
Paragon Sellers Company. (See Pardee, Frank W., assignor.)
Paraskovich, Tadeus, Vienna, Austria-Hungary. Powder-packing machine. No. 1,037,974; Sept. 10; Gaz. vol. 182; p. 302.
Parcels, Austin J., Wetmore, Kans. Combined loader and spreader. No. 1,018,984; Feb. 27; Sp. p. 6109; Gaz. vol. 175; p. 1050.
Parchem, Albert J., assignor of one-half to W. F. Lebzelter and one-half to J. J. Thompson, Lancaster, Pa. Spark-plug. No. 1,042,818; Oct. 29; Gaz. vol. 183; p. 1196.
Pardee, Frank W., Evanston, Ill., assignor to Paragon Sellers Company, Chicago, Ill. Grounding device for electrical conductors. No. 1,013,305; Jan. 2; Sp. p. 485; Gaz. vol. 174; p. 76.
Pardoe, Avern, Jr., Toronto, Ontario, Canada. Document-file. No. 1,048,577; Dec. 31; Gaz. vol. 185; p. 1096.
Parent, Jules F., Plainfield, N. J. Sash-fastener. No. 1,037,302; Sept. 3; Gaz. vol. 182; p. 41.
Parfitt, Alfred, Topeka, Kans. Attachment for punching and shearing machines. No. 1,025,016; Apr. 30; Sp. p. 7027; Gaz. vol. 177; p. 1234.
Paridon, Michael. (See Palmer and Paridon.)
Paridon, Michael, Barberton, and T. A. Palmer, Akron, Ohio, assignors to The Diamond Match Company, Chicago, Ill. Machine for making match-books. No. 1,042,472; Oct. 29; Gaz. vol. 183; p. 1074.
Paridy, Charles, Belleville, Ill. Antifriction axle-mounting. No. 1.047.281; Dec. 17; Gaz. vol. 185; p. 586.
Paris Lamp & Manufacturing Company. (See Horst and Goebel, assignors.)
Paris, Leon C., and T. Millward, assignors of one-third to J. R. Howell, San Francisco, Cal. Machine for carbonating beverages. No. 1,038,191; Sept. 10; Gaz. vol. 182; p. 372.
Paris, William A., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electric switch. No. 1,015,972; Jan. 30; Sp. p. 6331; Gaz. vol. 174; p. 1101.
Paris, William A., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Controller for electric motors. No. 1,037,181; Aug. 27; Gaz. vol. 181; p. 1044.
Parish, Harold F., New York, N. Y., assignor to Grinden Art Metal Company. Electric welding. No. 1,034,290; July 30; Gaz. vol. 180; p. 1327.
Parish, Legrand, New York, N. Y. Circulating-tube for steam-boilers. No. 1,049,140; Dec. 31; Gaz. vol. 185; p. 1291.
Parish, Smith, *et al.* (See Johnson, Edward W., assignor.)
Park, Albert E., Minneapolis, Minn. Excavating-dipper. No. 1.047,135; Dec. 10; Gaz. vol. 185; p. 502.
Park, Henry. (See Viger, Henry, assignor.)
Park, John K., Atlantic City, N. J. Leveling instrument. No. 1,013,893; Jan. 9; Sp. p. 1794; Gaz. vol. 174; p. 308.
Park, Martha S. (See Bush, Le Grand C., assignor.)
Park, Orva D., Mount Sterling, Iowa. Road-grading machine. No. 1,028,060; May 28; Sp. p. 6508; Gaz. vol. 178; p. 1114.
Park, Samuel T. (See Phillips and Park.)
Park, William N., Corning, N. Y. Controlling means for combustion-engines. No. 1,041,339; Oct. 15; Gaz. vol. 183; p. 629.
Park, William R., Taunton, Mass., assignor to himself, as trustee. Spring. No. 1,023,870; Apr. 23; Sp. p. 4489; Gaz. vol. 177; p. 804.
Parke, Davis & Company. (See Beckwith, Charles P., assignor.)
Parke, Davis & Company. (See Francis, John M., assignor.)
Parke, Robert A., Parke Mines, Ontario, Canada, assignor to The Westinghouse Air Brake Company, Pittsburgh, Pa. Light and load brake apparatus. No. 1,025,297; May 7; Sp. p. 406; Gaz. vol. 178; p. 67.
Parker, Benjamin F., assignor to The Pittsburgh Seamless Tube Company, Beaver Falls, Pa. Reeling device. No. 1,040,748; Oct. 8; Gaz. vol. 183; p. 398.
Parker, C. L., *et al.* (See Arundel, Clarence E., assignor.)
Parker, Calvin S., London, Ontario, Canada. Trap. No. 1,015,243; Jan. 16; Sp. p. 4736; Gaz. vol. 174; p. 798.
Parker, Charles A., Reno, Nev. Umbrella. No. 1,036,142; Aug. 20; Gaz. vol. 181; p. 659.
Parker, Charles D. (See Horne and Parker.)
Parker, Charles T., Alton, Ill. Machine for automatically regulating the flow of liquids. No. 1,028,132; June 4; Sp. p. 87; Gaz. vol. 179; p. 17.
Parker, Clarence L., Los Angeles, Cal. Self-cleaning ball-valve pump. No. 1,027,665; May 28; Sp. p. 5630; Gaz. vol. 178; p. 983.

Alphabetical list of patentees—Continued.

Parker, Clarence L., Los Angeles, Cal. Expansive pump-plunger. No. 1,027,889; May 28; Sp. p. 6170; Gaz. vol. 178; p. 1059.
Parker, Clarence L., Los Angeles, Cal. Pump. No. 1,028,061; May 28; Sp. p. 6510; Gaz. vol. 178; p. 1114.
Parker-Clark Electric Company. (See Baker, Raymond W., assignor.)
Parker, Clark H., Beaver Dam, Wis. Centrifugal discharge mechanism. No. 1,020,307; Mar. 12; Sp. p. 2754; Gaz. vol. 176; p. 467.
Parker, Clark W., Springfield, Mass. Producing finished tempered gear. No. 1,042,819; Oct. 29; Gaz. vol. 183; p. 1196.
Parker, Clark W., assignor to Parker Transmission and Appliance Company, Springfield, Mass. Transmission-gearing. No. 1,042,960; Oct. 29; Gaz. vol. 183; p. 1243.
Parker, Edmund A., assignor of one-half to L. A. Miller, Meriden, Conn. Jar top and cover. No. 1,045,319; Nov. 26; Gaz. vol. 184; p. 880.
Parker, Edwy S. (See Hixon and Parker.)
Parker, Eli J., Iron City, Tenn. Heating-stove. No. 1,015,973; Jan. 30; Sp. p. 6333; Gaz. vol. 174; p. 1102.
Parker, Finis E. (See Case and Parker.)
Parker, Frederick R., Chicago, Ill. Telephone system. No. 1,026,328; May 14; Sp. p. 2730; Gaz. vol. 178; p. 456.
Parker, George, assignor of nine-twentieths to G. G. Holladay, Portsmouth, Va. Window-lock. No. 1,014,091; Jan. 9; Sp. p. 2232; Gaz. vol. 174; p. 374.
Parker, George, assignor of fifty one-hundredths to A. Levitin, Portsmouth, Va. Axle-box. No. 1,032,235; July 9; Gaz. vol. 180; p. 520.
Parker, George A., Brockton, Mass. Rotary engine. No. 1,013,682; Jan. 2; Sp. p. 1328; Gaz. vol. 174; p. 205.
Parker, George D. (See Vinson, Sherman L., assignor.)
Parker, George D., Riverside, Cal. Sprinkling apparatus. No. 1,021,067; Mar. 26; Sp. p. 4374; Gaz. vol. 176; p. 812.
Parker, George D., Riverside, Cal. Conveyer. No. 1,034,641; Aug. 6; Gaz. vol. 181; p. 79.
Parker, George D., Riverside, Cal. Combined elevating and dumping apparatus. No. 1,045,072; Nov. 19; Gaz. vol. 184; p. 767.
Parker, George H., assignor, by mesne assignments, to M. C. Baker, Stamford, Conn. Bulletin-board. (Reissue.) No. 13,484; Oct. 29; Gaz. vol. 183; p. 1279.
Parker, George H., Newark, N. J., assignor, by mesne assignments, to M. C. Baker, Stamford, Conn. Base-ball-bulletin board. No. 1,043,536; Nov. 5; Gaz. vol. 184; p. 176.
Parker, George S., Janesville, Wis. Safety-cap for fountain-pens. No. 1,028,382; June 4; Sp. p. 694; Gaz. vol. 179; p. 105.
Parker, George W., St. Louis, Mo. Constructing a retort-setting. No. 1,037,516; Sept. 3; Gaz. vol. 182; p. 115.
Parker, H. W. (See Dodson, Charles M., assignor.)
Parker, Harleigh S., Littlefork, Minn. Steam road-icer. No. 1,029,508; June 11; Sp. p. 3120; Gaz. vol. 179; p. 523.
Parker, Harry, Jr. (See O'Neill and Parker.)
Parker, Howard, Nashua, N. H. Reel-drum or the like. No. 1,015,244; Jan. 16; Sp. p. 4738; Gaz. vol. 174; p. 799.
Parker, Howard, Nashua, N. H. Centrifugal screen. No. 1,036,318; Aug. 20; Gaz. vol. 181; p. 721.
Parker, Howard, assignor to Improved Paper Machinery Company, Nashua, N. H. Roll. No. 1,039,067; Sept 17; Gaz. vol. 182; p. 705.
Parker, James C., Woodston, Kans. Printing attachment for paper-roll holders. No. 1,035,384; Aug. 13; Gaz. vol. 181; p. 364.
Parker, Jennie L., Newberg, Oreg. Folding toilet-board. No. 1,015,741; Jan. 23; Sp. p. 5843; Gaz. vol. 174; p. 996.
Parker, Jesse O. (See Robinson and Parker.)
Parker, John, assignor to Brown and Sharpe Manufacturing Company, Providence, R. I. Gearing for metal-working machines. No. 1,032,698; July 16; Gaz. vol. 180; p. 724.
Parker, John E. (See Love and Parker.)
Parker, John F., Kansas City, Mo., assignor to The National Cash Register Company, Dayton, Ohio. Cash-register. No. 1,022,152; Apr. 2; Sp. p. 850; Gaz. vol. 177; p. 135.
Parker, John F., Kansas City, Mo., assignor to The National Cash Register Company, Dayton, Ohio. Cash-register. No. 1,022,868; Apr. 9; Sp. p. 2376; Gaz. vol. 177; p. 407.
Parker, John H. (See Balliett, Howard H., assignor.)
Parker, John H. (See Keefe, Joseph, assignor.)
Parker, Joseph F. (See Lockling and Parker.)
Parker, Joseph N., Kingfield, Me. Fruit-picker. No. 1,025,826; May 7; Sp. p. 1571; Gaz. vol. 178; p. 249.
Parker, Louis C., Vale Summit, Md., assignor of one-half to W. A. Parker, Pittsburgh, Pa. Railway-tie. No. 1,016,517; Feb. 6; Sp. p. 656; Gaz. vol. 175; p. 98.
Parker, Malvin B., Waterville, Me. Root-digger. No. 1,039,583; Sept. 24; Gaz. vol. 182; p. 906.
Parker Manufacturing Company. (See Porter, George, assignor.)
Parker, Phillip T., McKenzie, Ala. Sweet-potato-preserving house. No. 1,043,624; Nov. 5; Gaz. vol. 184; p. 206.
Parker, Robert, Jr., Sterling, Colo. Hat-nesting display-rack. No. 1,026,116; May 14; Sp. p. 2271; Gaz. vol. 178; p. 383.
Parker, Robert B., Jr., Gloucester, Mass. Water-regulator. No. 1,028,599; June 4; Sp. p. 1165; Gaz. vol. 179; p. 178.
Parker, Robert B., Jr., Boston, Mass. Cork-extracting device. No. 1,036,893; Aug. 27; Gaz. vol. 181; p. 947.
Parker, Rufus T., assignor of one-half to C. J. Watson, Chicago, Ill. Coin savings-bank. No. 1,024,222; Apr. 23; Sp. p. 5293; Gaz. vol. 177; p. 927.
Parker, Thomas R. G. (See Pearce and Parker.)
Parker Transmission and Appliance Company. (See Parker, Clark W., assignor.)
Parker, Walter, and L. E. Campbell, Neola, Iowa. Mold. No. 1,015,706; Jan. 23; Sp. p. 5774; Gaz. vol. 174; p. 984.
Parker, William, Cleveland, Ohio. Tool-holder. No. 1,036,693; Aug. 27; Gaz. vol. 181; p. 881.
Parker, William A. (See Parker, Louis C., assignor.)
Parker, William A., Atlanta, Ga. Handle-mount. No. 1,016,576; Feb. 6; Sp. p. 801; Gaz. vol. 175; p. 119.
Parker, William A., assignor of one-half to J. B. Hardin and one-fourth to W. D. Paden, Atlanta, Ga. Plow-stock. No. 1,016,643; Feb. 6; Sp. p. 948; Gaz. vol. 175; p. 142.
Parker, William G., Nashua, N. H. Last and upper protector. No. 1,032,422; July 16; Gaz. vol. 180; p. 628.
Parker, William H., Toronto, Ontario, Canada. Acetylene-gas generator. No. 1,032,154; July 9; Gaz. vol. 180; p. 491.
Parker, William H., Birmingham, Ala. Stump-puller. No. 1,034,642; Aug. 6; Gaz. vol. 181; p. 79.
Parker, William H., Steilacoom, Wash. Toothpick-machine. No. 1,035,897; Aug. 20; Gaz. vol. 181; p. 575.
Parker, William H., Tacoma, Wash. Match-unloader. No. 1,048,865; Dec. 31; Gaz. vol. 185; p. 1197.
Parker, William H., assignor to Pacific Coast Match Company, Tacoma, Wash. Match-making apparatus. No. 1,036,894; Aug. 27; Gaz. vol. 181; p. 947.
Parker Wire Goods Company. (See Davis, George S., assignor.)
Parkes Machine Company, The. (See Parkes, William N., assignor.)
Parkes, William N., Brooklyn, assignor to The Parkes Machine Company, New York, N. Y. Automatic embroidery-machine. No. 1,027,064; May 21; Sp. p. 4397; Gaz. vol. 178; p. 744.
Parkes, William N., Brooklyn, assignor to The Parkes Machine Company, New York, N. Y. Dolly-mat. No. 1,037,044; Aug. 27; Gaz. vol. 181; p. 998.
Parkhill, John, Rochester, Minn. Trowel. No. 1,026,117; May 14; Sp. p. 2274; Gaz. vol. 178; p. 384.
Parkhurst Company, The. (See Parkhurst, Layton M., assignor.)
Parkhurst, Frederic H., Bangor, Me. Coat-hanger for wardrobe-trunks. No. 1,016,707; Feb. 6; Sp. p. 1074; Gaz. vol. 175; p. 165.
Parkhurst, Layton M., assignor to The Parkhurst Company, Indianapolis, Ind. Vending-machine. No. 1,017,231; Feb. 13; Sp. p. 2237; Gaz. vol. 175; p. 381.
Parkhurst, Layton M., assignor to The Indiana Die-Casting Development Company, Indianapolis, Ind. Die-casting machine. No. 1,045,738; Nov. 26; Gaz. vol. 184; p. 1030.
Parkhurst, Leon F., assignor to Diamond Electric Company, Binghamton, N. Y. Electric heating apparatus. No. 1,023,755; Apr. 16; Sp. p. 4194; Gaz. vol. 177; p 737.
Parkhurst, Leon F., assignor to Diamond Electric Company, Binghamton, N. Y. Electric sad-iron and terminal box. No. 1,027,666; May 28; Sp. p. 5637; Gaz. vol. 178; p. 983.
Parkhurst, Leon F., assignor to Diamond Electric Company. Binghamton, N. Y. Electric connector. No. 1,035,227; Aug. 13; Gaz. vol. 181; p. 307.
Parkhurst, Leon F., assignor to Diamond Electric Company, Binghamton, N. Y. Electric heating unit. No. 1,043,029; Oct. 29; Gaz. vol. 183; p. 1268.
Parkhurst, Leon F., assignor to Diamond Electric Company, Binghamton, N. Y. Electric heater for ranges. No. 1,045,320; Nov. 26; Gaz. vol. 184; p. 880.
Parkhurst, Leon F., Pittsfield, Mass., assignor to General Electric Company. Electrically-heated tool. No. 1,026,363; May 14; Sp. p. 2824; Gaz. vol. 178; p. 467.
Parkhurst, Leon F., Pittsfield, Mass., assignor to General Electric Company. Electric heater. No. 1,028,383; June 4; Sp. p. 695; Gaz. vol. 179; p. 106.
Parkhurst, Leon F., Pittsfield, Mass., assignor to General Electric Company. Electric heater. No. 1,046,103; Dec. 3; Gaz. vol. 185; p. 104.
Parkhurst, Leon F., and H. G. Weeks, assignors to Diamond Electric Company, Binghamton, N. Y. Electric cooking utensil. No. 1,023,754; Apr. 16; Sp. p. 4193; Gaz. vol. 177; p. 736.
Parkinson, William L., Ashland, Ohio. Valve. No. 1,025,827; May 7; Sp. p. 1573; Gaz. vol. 178; p. 249.
Parks, Cyril G., Minneapolis, Minn. Package-clasp. No. 1,038,785; Sept. 17; Gaz. vol. 182; p. 613.

Alphabetical list of patentees—Continued.

Parks, Dennis. (See Dawkins and Parks.)
Parks, Edward F., Providence, assignor of one-half to H. J. Waterhouse, Warwick, R. I. Loom harness-heddle. No. 1,014,771; Jan. 16; Sp. p. 3746; Gaz. vol. 174; p. 637.
Parks, Fred B., Grand Rapids, Mich. Tire-plug inserter. No. 1,025,203; May 7; Sp. p. 207; Gaz. vol. 178; p. 35.
Parks, Frederick R., Hamburg, N. Y. Automatic poultry-feeding apparatus. No. 1,019,080; Mar. 5; Sp. p. 157; Gaz. vol. 176; p. 26.
Parks, George A., assignor of one-half to J. M. Brennan, Upland, Cal. Resurfacing device. No. 1,038,947; Sept. 17; Gaz. vol. 182; p. 669.
Parks, Miner R., Roseburg, Oreg. Type-setting device. No. 1,042,368; Oct. 22; Gaz. vol. 183; p. 1009.
Parks, Willis R. (See Sweeney and Parks.)
Parlin & Orendorff Company. (See Dewey, Frederic L., assignor.)
Parlin & Orendorff Company. (See Graham, William S., assignor.)
Parlin and Orendorff Company. (See Parlin, William H., assignor.)
Parlin, William H., assignor to Parlin and Orendorff Company, Canton, Ill. Cultivator. No. 1,013,306; Jan. 2; Sp. p. 487; Gaz. vol. 174; p. 76.
Parmele, William G., Chetopa, Kans. Moldboard plowing-machine. No. 1,029,456; June 11; Sp. p. 3022; Gaz. vol. 179; p. 506.
Parmelee, Charles L., Orange, N. J., assignor to The East Jersey Pipe Company, New York, N. Y. Machine for upsetting metal plates. No. 1,040,398; Oct. 8; Gaz. vol. 183; p. 274.
Parmenter, George A., Cambridge, Mass. Life-guard for railway-cars. No. 1,014,667; Jan. 16; Sp. p. 3515; Gaz. vol. 174; p. 602.
Parmenter, William A., and A. B. Alden, assignors to C. S. Pierce Skiving Machine Company, Brockton, Mass. Skiving-machine. (Reissue.) No. 13,355; Jan. 9; Sp. p. 3418; Gaz. vol. 174; p. 565.
Parmenter, William A., and A. B. Alden, assignors of one-third to C. S. Pierce, Brockton, Mass. Skiving-machine. No. 1,035,228; Aug. 13; Gaz. vol. 181; p. 307.
Parmeter, George W., Sheridan, Wyo. Cinch-ring. No. 1,035,725; Aug. 13; Gaz. vol. 181; p. 478.
Parmley, Lemuel M., Knoxville, Tenn. Locking mechanism for fluid-containers. No. 1,029,713; June 18; Sp. p. 3582; Gaz. vol. 179; p. 632.
Parmly, Eleazar, Jr., Washington D. C., assignor to Elliott-Fisher Company, Harrisburg, Pa. Tabulating, back-spacing, and key-connecting mechanism. No. 1,015,829; Jan. 30; Sp. p. 6020; Gaz. vol. 174; p. 1052.
Parr, Lee L., Pagosa Springs, Colo. Scraper attachment. No. 1,047,439; Dec. 17; Gaz. vol. 185; p. 640.
Parre, Louie A., Batavia, Ill. Valve for hot-water heating systems. No. 1,044,234; Nov. 12; Gaz. vol. 184; p. 446.
Parrigin, Frank S., St. Augustine, Fla. Base-plate. No. 1,026,962; May 21; Sp. p. 4159; Gaz. vol. 178; p. 709.
Parrish, Frederick E., Lincoln, Nebr. Silo-door. No. 1,035,726; Aug. 13; Gaz. vol. 181; p. 478.
Parrish, Homer A., Kalamazoo, Mich. Electric signal device. No. 1,046,634; Dec. 10; Gaz. vol. 185; p. 330.
Parrish, James S., Richmond, Va., assignor to Richmond Cedar Works. Ice-cream freezer. No. 1,022,752; Apr. 9; Sp. p. 2155; Gaz. vol. 177; p. 369.
Parrish, Pearl V., Nowata, Okla. Clothes-wringer clamp. No. 1,017,584; Feb. 13; Sp. p. 2959; Gaz. vol. 175; p. 499.
Parry, Frank, Brightwater, British Columbia, Canada. Propagation of fish. No. 1,023,590; Apr. 16; Sp. p. 3903; Gaz. vol. 177; p. 687.
Parry Manufacturing Company. (See Parry, St. Clair and T. H., assignors.)
Parry, St. Clair and T. H., assignors to Parry Manufacturing Company, Indianapolis, Ind. Door-hanger. No. 1,020,776; Mar. 19; Sp. p. 3778; Gaz. vol. 176; p. 662.
Parry, Thomas H. (See Parry, St. Clair and T. H.)
Parry, William, Washington, D. C. Can. No. 1,024,018; Apr. 23; Sp. p. 4808; Gaz. vol. 177; p. 854.
Parry, William S., Fort Wayne, Ind. Pull-strap for shoes. No. 1,047,558; Dec. 17; Gaz. vol. 185; p. 684.
Parsche, Frank C., assignor to F. X. Parsche & Son Company, Chicago, Ill. Automobile-lamp. No. 1,042,473; Oct. 29; Gaz. vol. 183; p. 1075.
Parsells, William C., Ellenville, N. Y. Toy bottle. No. 1,045,601; Nov. 26; Gaz. vol. 184; p. 981.
Parshall, Horace F., London, England, assignor to General Electric Company. Sluice-gate. No. 1,046,012; Dec. 3; Gaz. vol. 185; p. 72.
Parsley, Samuel E., Latexo, assignor of one-half to W. F. Paine, Wills Point, Tex. Cotton-chopper. No. 1,045,431; Nov. 26; Gaz. vol. 184; p. 920.
Parson, Henry M., assignor to Parson Manufacturing Company, New York, N. Y. Mechanical stoker. No. 1,027,149; May 21; Sp. p. 4592; Gaz. vol. 178; p. 772.
Parson, Henry M., assignor to Parson Manufacturing Company, New York, N. Y. Mechanical stoker. No. 1,027,753; May 28; Sp. p. 5805; Gaz. vol. 178; p. 1012.
Parson Manufacturing Company. (See Parson, Henry M., assignor.)
Parson, William N., *et al.* (See Magee, Francis L., assignor.)
Parsons, Arthur H., assignor to The Parsons & Parsons Company, Cleveland, Ohio. Collar for neckwear. No. 1,023,223; Apr. 16; Sp. p. 3172; Gaz. vol. 177; p. 568.
Parsons, Bert S., and W. A. Freeman, Harrisonville, Mo. Magazine-firearm. No. 1,039,182; Sept. 24; Gaz. vol. 182; p. 762.
Parsons, Carl B. (See De Vlieg, Gerard A., assignor.)
Parsons, Cecil W., Birmingham, assignor to W. B. Purefoy, R. Birch, and C. W. Wood, London, England. Caster. No. 1,047,115; Dec. 10; Gaz. vol. 185; p. 494.
Parsons, Charles, Cleveland, Ohio. Hose-coupling. No. 1,039,584; Sept. 24; Gaz. vol. 182; p. 906.
Parsons, Charles A. (See Ridsdale and Cook, assignors.)
Parsons, Charles A., and A. H. Law, Newcastle-upon-Tyne, England; said Law assignor to said Parsons. Dynamo-electric machinery. No. 1,022,255; Apr. 2; Sp. p. 1060; Gaz. vol. 177; p. 169.
Parsons, Charles A., and H. L. Short, Newcastle-upon-Tyne, England; said Short assignor to said Parsons. Machine for shaping turbine-blades. No. 1,031,463; July 2; Gaz. vol. 180; p. 214.
Parsons, Charles A., J. W. Wilson, Newcastle-upon-Tyne, and J. Ford, Wallsend, England; said Wilson and Ford assignors to said Parsons. Blading for turbines. No. 1,021,472; Mar. 26; Sp. p. 5270; Gaz. vol. 176; p. 950.
Parsons, Charles A., J. H. Greaves, and A. R. Hemsted, Newcastle-upon-Tyne, England; said Greaves and Hemsted assignors to said Parsons. Manufacturing cables. No. 1,030,426; June 25; Sp. p. 5157; Gaz. vol. 179; p. 918.
Parsons, Charles E. (See Hilliard and Parsons.)
Parsons, Charles J., Linworth, assignor to G. B. Donavin, Columbus, Ohio. Latch structure. No. 1,042,030; Oct. 22; Gaz. vol. 183; p. 899.
Parsons, Clara, Seattle, Wash. Sash-lock. No. 1,023,391; Apr. 16; Sp. p. 3507; Gaz. vol. 177; p. 624.
Parsons, Emma C., Somerville, Mass. Stocking. No. 1,044,567; Nov. 19; Gaz. vol. 184; p. 590.
Parsons, Fred A., and J. H. Myers, Binghamton, N. Y. Packing for rotary engines. No. 1,027,500; May 28; Sp. p. 5301; Gaz. vol. 178; p. 928.
Parsons, Frederick W., assignor to The Parsons & Parsons Company, Cleveland, Ohio. Collar for neckwear. No. 1,046,326; Dec. 3; Gaz. vol. 185; p. 184.
Parsons, Isaac H., Kibworth, Harcourt, near Leicester, England. Electrical coupling. No. 1,014,718; Jan. 16; Sp. p. 3627; Gaz. vol. 174; p. 620.
Parsons, James M., deceased; M. E. Parsons, administratrix, Baltimore, Md. Steam-engine. No. 1,036,895; Aug. 27; Gaz. vol. 181; p. 947.
Parsons, Lewis E., Lewistown, Ill. Twisting mechanism for corn-harvesters. No. 1,021,947; Apr. 2; Sp. p. 407; Gaz. vol. 177; p. 67.
Parsons, Lewis E., Lewistown, Ill. Binding mechanism for corn-harvesters. No. 1,021,948; Apr. 2; Sp. p. 414; Gaz. vol. 177; p. 68.
Parsons, M. Vernon. (See Buoy, John W., assignor.)
Parsons, Mary, Manhattan, Kans. Coffee-pot. No. 1,015,396; Jan. 23; Sp. p. 5095; Gaz. vol. 174; p. 878.
Parsons, Mary E., administratrix. (See Parsons, James M.)
Parsons & Parsons Company, The. (See Parsons, Arthur H., assignor.)
Parsons & Parsons Company, The. (See Parsons, Frederick W., assignor.)
Parsons, Stuart W. (See Hart and Parsons.)
Parsons, Stuart W., assignor to The Stanley Works, New Britain, Conn. Bracket. No. 1,047,980; Dec. 24; Gaz. vol. 185; p. 856.
Parsons, Wiley W., and H. Spalding, Hay Springs, Nebr. Insect-killer. No. 1,021,883; Apr. 2; Sp. p. 285; Gaz. vol. 177; p. 46.
Parsons, Winslow R., Chicago, Ill. Sewing-machine. No. 1,014,022; Jan. 9; Sp. p. 2090; Gaz. vol. 174; p. 351.
Parsons, Winslow R., Chicago, Ill. Smoothing and polishing metal articles and parts. No. 1,017,268; Feb. 13; Sp. p. 2309; Gaz. vol. 175; p. 393.
Parsons, Winslow R., Chicago, Ill. Window-shade fixture. No. 1,040,399; Oct. 8; Gaz. vol. 183; p. 275.
Partington, Gerard J. (See Wright, George H., assignor.)
Partridge, Allen R., assignor to Partridge Smelting and Refining Company, Denver, Colo. Smelter. No. 1,025,922; May 7; Sp. p. 1818; Gaz. vol. 178; p. 281.
Partridge, Elmer L., assignor to The Adams & Westlake Company, Chicago, Ill. Electric-lamp bracket and socket. No. 1,022,328; Apr. 2; Sp. p. 1207; Gaz. vol. 177; p. 193.
Partridge Smelting and Refining Company. (See Partridge, Allen R., assignor.)
Party, Joseph, Paris, France. Lasting-machine. No. 1,016,769; Feb. 6; Sp. p. 1206; Gaz. vol. 175; p. 185.
Parvin, Thomas H., Carmi, Ill. Vineyard-plow. No. 1,033,728; July 23; Gaz. vol. 180; p. 1104.
Pascal, Israel, assignor of six-tenths to M. Albert, Montreal, Quebec, Canada. Vehicle-wheel. No. 1,018,774; Feb. 27; Sp. p. 5661; Gaz. vol. 175; p. 978.
Pascal, Israel, assignor of one-half to M. Ressler, Montreal, Quebec, Canada. Railway-car. No. 1,039,585; Sept. 24; Gaz. vol. 182; p. 906.

Alphabetical list of patentees—Continued.

Paschall, Charles H., Chicago, Ill., assignor to American 3-Way Prism Co., Philadelphia, Pa. Vault-light construction. No. 1,039,790; Oct. 1; Gaz. vol. 183; p. 41.
Paschen, Max, Köthen, Germany. Double-knife box for beet-root-slicing machines. No. 1,040,003; Oct. 1; Gaz. vol. 183; p. 111.
Paschen, Max, Köthen, Germany. Apparatus for heating beet-slices. No. 1,042,261; Oct. 22; Gaz. vol. 183; p. 974.
Paschka, Max, Vienna, Austria-Hungary. Apparatus for impregnating liquids with gases. No. 1,037,517; Sept. 3; Gaz. vol. 182; p. 116.
Pasinski, Walter J., assignor to Burroughs Adding Machine Company, Detroit, Mich. Adding-machine. No. 1,023,168; Apr. 16; Sp. p. 3060; Gaz. vol. 177; p. 549.
Paskell, Albert E., New York, N. Y. Garment-hanger. No. 1,043,351; Nov. 5; Gaz. vol. 184; p. 109.
Pasman, Abram N., assignor to W. H. Bonynge, Jersey City, N. J. Flush-valve. No. 1,035,898; Aug. 20; Gaz. vol. 181; p. 575.
Pass, Gretel J., Grenada, Miss. Toilet-hood. No. 1,023,677; Apr. 16; Sp. p. 4064; Gaz. vol. 177; p. 713.
Pass, James, Geddes, and W. Cannan, Jr., assignors to Onondaga Pottery Company, Syracuse, N. Y. Packing chinaware for baking. No. 1,036,319; Aug. 20; Gaz. vol. 181; p. 721.
Pass & Seymour. (See Crossley and Despard, assignors.)
Passaic Metal Ware Company. (See Karp, Morris, assignor.)
Passauer, Lester A. (See McQueary and Passauer.)
Passburg, Emil, Berlin, Germany. Desiccating milk. No. 1,049,141; Dec. 31; Gaz. vol. 185; p. 1292.
Passer, William C., Arpin, Wis. Foot-guard for switch-rails. No. 1,036,694; Aug. 27; Gaz. vol. 181; p. 882.
Passig, Hans, Lake Benton, Minn. Fly-trap. No. 1,020,052; Mar. 12; Sp. p. 2223; Gaz. vol. 176; p. 383.
Passow, Hermann, Blankenese, Germany. Making filters. No. 1,027,754; May 28; Sp. p. 5807; Gaz. vol. 178; p. 1012.
Pastor, Fritz, Krefeld, Germany. Figuring velvet. No. 1,037,975; Sept. 10; Gaz. vol. 182; p. 303.
Patchell, William J., St. Louis, Mo. Spacing-machine. No. 1,036,695; Aug. 27; Gaz. vol. 181; p. 882.
Patchin, William E., assignor to L. B. Hodge, Rochester, N. Y. Eaves-trough hanger. No. 1,020,951; Mar. 19; Sp. p. 4128; Gaz. vol. 176; p. 720.
Pate, Cordy N. (See Carter, Henry F., assignor.)
Pate, David B. (See Everett and Pate.)
Pate, Grover C., Daingerfield, Tex. Fertilizer-distributer. No. 1,020,571; Mar. 19; Sp. p. 3319; Gaz. vol. 176; p. 592.
Pate, Robert B., Oakland, Cal., and F. B. Rose, Oneida, N. Y. Concentrator. No. 1,020,220; Mar. 12; Sp. p. 2591; Gaz. vol. 176; p. 440.
Patee, Martha J. (See Patee, Theodorus H., assignor.)
Patee, Martha J., administratrix. (See Patee, Theodorus H.)
Patee, Theodorus H., deceased, Indianapolis, Ind.; M. J. Patee, administratrix, assignor to said M. J. Patee, individually. Static electric machine. No. 1,043,030; Oct. 29; Gaz. vol. 183; p. 1268.
Patent Electric Fuse Spitter Co. (See Bernardi and Sauve, assignors.)
Patents Purchasing Company, The. (See Reid, James H., assignor.)
Paterson, Edward A., Port Arthur, Ontario, Canada. Road-making and binding materials therefor. No. 1,042,474; Oct. 29; Gaz. vol. 183; p. 1075.
Paterson, James, London, England. Shooting-range for rifle and revolver practice. No. 1,035,811; Aug. 13; Gaz. vol. 181; p. 507.
Paterson, William, London, England. Means for controlling the discharge of liquid from filters and the like. No. 1,035,999; Aug. 20; Gaz. vol. 181; p. 607.
Patitz, Johann F. M., assignor to Allis-Chalmers Company, Milwaukee, Wis. Blowing-engine. No. 1,016,577; Feb. 6; Sp. p. 803; Gaz. vol. 175; p. 119.
Patnaude, John D., Manchester, N. H. Tool-holder. No. 1,025,017; Apr. 30; Sp. p. 7029; Gaz. vol. 177; p. 1235.
Patnaude, William E., Merrimac, assignor to A. L. Boggs, Dorchester, Mass. Liquid-cooler. No. 1,018,924; Feb. 27; Sp. p. 5966; Gaz. vol. 175; p. 1028.
Patnode, Herman, *et al.* (See Brunelle, Arthur, assignor.)
Patnode, Paul, *et al.* (See Brunelle, Arthur, assignor.)
Paton, Robert, Cynwyd, Pa. Calk attachment for horseshoes. No. 1,016,708; Feb. 6; Sp. p. 1076; Gaz. vol. 175; p. 165.
Paton, Walter J., Galva, Kans. Fire-extinguishing apparatus for ships. No. 1,034,291; July 30; Gaz. vol. 180; p. 1327.
Patric, Charles E., Springfield, Ohio. Planting-machine. No. 1,015,245; Jan. 16; Sp. p. 4738; Gaz. vol. 174; p. 799.
Patric, Charles E., Springfield, Ohio. Line-marker. No. 1,017,061; Feb. 13; Sp. p. 1847; Gaz. vol. 175; p. 320.
Patrick, Bennett J., Brookfield, Mo. Controlling mechanism for motor-vehicles. No. 1,032,934; July 16; Gaz. vol. 180; p. 801.
Patrick, Charles E., Des Moines, Iowa. Smoke-consumer. No. 1,036,320; Aug. 20; Gaz. vol. 181; p. 722.
Patrick, Joshua. (See Marsh and Patrick.)
Patrick, William E., Newport, R. I. Hose-coupling and hose-fastener. No. 1,038,948; Sept. 17; Gaz. vol. 182; p. 669.
Patt, Charles, assignor of one-half to C. Breakefield, Centralia, Ill. Lock. No. 1,042,031; Oct. 22; Gaz. vol. 183; p. 899.
Patten, Charles H., assignor to Charles E. Hancock Company, Providence, R. I. Expansible bracelet. No. 1,046,850; Dec. 10; Gaz. vol. 185; p. 406.
Patten, Charles H., J. L. Gray, and P. J. Bue, Moscow, Idaho; said Bue assignor to said Gray. Hitching device. No. 1,031,815; July 9; Gaz. vol. 180; p. 378.
Patten, Edward M., Yuma, Colo. Trip-hammer. No. 1,042,961; Oct. 29; Gaz. vol. 183; p. 1244.
Patten, Frank D., Portland, Oreg. Automatic gravity-lock. No. 1,030,848; June 25; Sp. p. 6431; Gaz. vol. 179; p. 1071.
Patten, James, *et al.* (See Patten, William, assignor.)
Patten, John, Baltimore, Md. Purification of water. No. 1,039,586; Sept. 24; Gaz. vol. 182; p. 907.
Patten, John, assignor of one-half to E. B. Miller, Baltimore, Md. Liquid expanding and contracting power-generating system. No. 1,032,236; July 9; Gaz. vol. 180; p. 520.
Patten, William, assignor to himself, P. J. McLean, and J. Patten, New York, N. Y. Portable fire-extinguisher. No. 1,047,693; Dec. 17; Gaz. vol. 185; p. 732.
Patten, William D., New York, N. Y. Ink. No. 1,035,229; Aug. 13; Gaz. vol. 181; p. 307.
Patterson-Allen Engineering Company. (See Hunter, Rudolph M., assignor.)
Patterson, Arthur L., Albemarle, N. C. Machine for applying paste to boxes for flies. No. 1,027,890; May 28; Sp. p. 6173; Gaz. vol. 178; p. 1060.
Patterson, Arthur L., Albemarle, N. C. Machine for applying paper flies to boxes. No. 1,032,237; July 9; Gaz. vol. 180; p. 521.
Patterson, Benjamin G., Oklahoma, Okla,, assignor of one-fourth to J. D. Oliger, Dallas, Tex., one-fourth to T. B. Simms, and one-tenth to J. D. Deu Pree, Oklahoma, Okla. Nut-lock. No. 1,042,962; Oct. 29; Gaz. vol. 183; p. 1244.
Patterson, Edward G., Bismarck, N. D. Key-tag. No. 1,020,308; Mar. 12; Sp. p. 2755; Gaz. vol. 176; p. 467.
Patterson, F. D., *et al.* (See Reed, Homer C., assignor.)
Patterson, Franklin M., New York, N. Y., assignor to Forged Steel Valve Company. Manufacturing bolts. No. 1,034,643; Aug. 6; Gaz. vol. 181; p. 79.
Patterson, George W., Cordell, assignor of one-half to I. Brownlee, Meers, Okla. Harvesting-machine. No. 1,034,498; Aug. 6; Gaz. vol. 181; p. 33.
Patterson, James, Rockwell, Fla. Rail-clamping device. No. 1,024,648; Apr. 30; Sp. p. 6281; Gaz. vol. 177; p. 1106.
Patterson, James B., Philadelphia, Pa. Machine for stuffing pillows and the like. No. 1,022,697; Apr. 9; Sp. p. 2015; Gaz. vol. 177; p. 348.
Patterson, James G., Maywood, Ill. Map-holder. No. 1,027,394; May 21; Sp. p. 5092; Gaz. vol. 178; p. 856.
Patterson, James Y., Pittsburgh, Pa. Cap-closure for pipes and the like. No. 1,044,235; Nov. 12; Gaz. vol. 184; p. 446.
Patterson, John F., St. Louis, Mo. Receptacle. No. 1,040,574; Oct. 8; Gaz. vol. 183; p. 336.
Patterson, John F., assignor of one-eighth to D. J. O'Rourke, Warren, Ohio. Sprayer. No. 1,013,307; Jan. 2; Sp. p. 489; Gaz. vol. 174; p. 77.
Patterson, John S. (See Golby and Patterson.)
Patterson, John W., Atlantic City, N. J. Observation-chair and extension-support. No. 1,029,821; June 18; Sp. p. 3818; Gaz. vol. 179; p. 669.
Patterson, Leo J. (See Scott and Patterson.)
Patterson, Paul H. (See Toso, Marcellino, assignor.)
Patterson, Peter, Pittsburgh, Pa. Regenerative furnace. No. 1,038,640; Sept. 17; Gaz. vol. 182; p. 563.
Patterson, Peter, Pittsburgh, Pa. Manufacture of tubing. No. 1,042,593; Oct. 29; Gaz. vol. 183; p. 1117.
Patterson, R. R., *et al.* (See Cabler, Robert L., assignor.)
Patterson, Richard B., Jr., Chicago, Ill. Exerciser. No. 1,020,367; Mar. 12; Sp. p. 2867; Gaz. vol. 176; p. 485.
Patterson and Sons, C. R. (See Gordon, Clay, assignor.)
Patterson, William J., Denver, Colo. Brake mechanism for talking-machines. No. 1,037,976; Sept. 10; Gaz. vol. 182; p. 303.
Patterson, William K., *et al.* (See Ellis, Ed, assignor.)
Pattillo, Walter B., Dublin, Ga. Type-case cabinet. No. 1,033,458; July 23; Gaz. vol. 180; p. 1016.
Pattin, Richard, Brookline, Mass. Fire-extinguishing nozzle. No. 1,017,585; Feb. 13; Sp. p. 2961; Gaz. vol. 175; p. 500.
Pattison, Clarence A. (See Roby and Pattison.)
Pattison, Clarence A., and L. E. Roby, Peoria, Ill. Grain-drill. No. 1,037,303; Sept. 3; Gaz. vol. 182; p. 42.
Patton, Alexander M., assignor to Chambers Motors Limited, Belfast, Ireland. High-tension magneto ignition apparatus for internal-combustion engines. No. 1,016,895; Feb. 6; Sp. p. 1456; Gaz. vol. 175; p. 226.
Patton, Alfred S. (See Doyle and Patton.)
Patton, Charles E., Fond du Lac, Wis. Buckle. No. 1,037,045; Aug. 27; Gaz. vol. 181; p. 998.

Patton, Charles W. (See Washington, Dixon E., assignor.)
Patton, Elias J., Galien, Mich. Ironing-table. No. 1,039,791; Oct. 1; Gaz. vol. 183; p. 41.
Patton, Elias J., assignor of one-half to J. P. Bergeron, Michigan City, Ind. Starting-crank for hydrocarbon-engines. No. 1,026,528; May 14; Sp. p. 3162; Gaz. vol. 178; p. 522.
Patton, Frank E., Jackson, Tenn. Air-brake system. No. 1,025,298; May 7; Sp. p. 411; Gaz. vol. 178; p. 67.
Patton, Herbert F., Cleveland, Ohio. Projecting apparatus. No. 1,024,356; Apr. 23; Sp. p. 5536; Gaz. vol. 177; p. 970.
Patton, John B. (See Engberg, Ephraim O., assignor.)
Patton, John G., Philadelphia, Pa. Envelop and advertising device. No. 1,040,004; Oct. 1; Gaz. vol. 183; p. 111.
Patton, John J., New York, N. Y. Tire. No. 1,016,709; Feb. 6; Sp. p. 1077; Gaz. vol. 175; p. 166.
Patton, Noah M., Rinard Mills, Ohio. Poultry-crate. No. 1,033,729; July 23; Gaz. vol. 180; p. 1104.
Patton, Victor V., Tollarburg, Colo. Electrical safety-lamp for miners. No. 1,026,924; May 21; Sp. p. 4047; Gaz. vol. 178; p. 694.
Patty, James S., Chicago, Ill. Paint and varnish remover. No. 1,019,829; Mar. 12; Sp. p. 1755; Gaz. vol. 176; p. 308.
Pauk, Henry E. (See Goessling, Pauk, Kachel, and Heckel, assignors.)
Pauken, Michael. (See Hamel, Charles F., assignor.)
Paukert, Frederick, Regent, N. D. Grain-separator. No. 1,013,433; Jan. 2; Sp. p. 758; Gaz. vol. 174; p. 120.
Paul, Adolf R. E., Brooklyn, N. Y. Faucet. No. 1,019,694; Mar. 5; Sp. p. 1493; Gaz. vol. 176; p. 231.
Paul, Alice E., deceased, (H. B. Andrews, executor,) and L. E. Stasand, Chicago, Ill. Portable refuse-incinerator. No. 1,048,741; Dec. 31; Gaz. vol. 185; r 1154.
Paul, Andrew G., Boston, Mass. Heating system. No. 1,045,602; Nov. 26; Gaz. vol. 184; p. 981.
Paul, Andrew G., Boston, Mass. Heating system. No. 1,045,603; Nov. 26; Gaz. vol. 184; p. 982.
Paul, Andrew G., Boston, Mass. Heating system. No. 1,045,604; Nov. 26; Gaz. vol. 184; p. 982.
Paul, Andrew G., Boston, Mass. Heating system. No. 1,045,605; Nov. 26; Gaz. vol. 184; p. 983.
Paul, Andrew G., Boston, Mass., and A. A. Cryer, Newark, N. J.; said Cryer assignor to said Paul. Heating system. No. 1,045,606; Nov. 26; Gaz. vol. 184; p. 984.
Paul, Charles F., Clinton, Ill. Water-gage. No. 1,032,766; July 16; Gaz. vol. 180; p. 746.
Paul, Christian F., Jr., Peekskill, N. Y. Rotary engine. No. 1,047,559; Dec. 17; Gaz. vol. 185; p. 684.
Paul, Henry, Forreston, Ill. Folding box. No. 1,013,561; Jan. 2; Sp. p. 1022; Gaz. vol. 174; p. 164.
Paul, Henry P., Camden, N. J., assignor to Farr and Bailey Manufacturing Company. Disintegrator. No. 1,018,440; Feb. 27; Sp. p. 4884; Gaz. vol. 175; p. 864.
Paul, John, Cleveland, Ohio. Plumb-bob. No. 1,025,828; May 7; Sp. p. 1575; Gaz. vol. 178; p. 249.
Paul, John T. H., assignor to E. Goldman & Co., Inc., Chicago, Ill. Bottle-carrier. No. 1,017,996; Feb. 20; Sp. p. 3927; Gaz. vol. 175; p. 679.
Paul Shniedewend and Company. (See Shniedewend, Paul J., Jr., assignor.)
Paul, William G., Navarre, assignor of one-half to M. J. Bowler and A. J. Schario, Canton, Ohio. Rail-brace. No. 1,028,384; June 4; Sp. p. 696; Gaz. vol. 179; p. 106.
Paul, William G., Navarre, assignor of one-half to M. J. Bowler and A. J. Schario, Canton, Ohio. Railway-tie. No. 1,028,828; June 4; Sp. p. 1632; Gaz. vol. 179; p. 254.
Paul, William L., assignor to Oliver Chilled Plow Works, South Bend, Ind. Sulky-plow. No. 1,018,775; Feb. 27; Sp. p. 5663; Gaz. vol. 175; p. 979.
Paul, William L., assignor to Oliver Chilled Plow Works, South Bend, Ind. Plow. No. 1,022,256; Apr. 2; Sp. p. 1064; Gaz. vol. 177; p. 170.
Paul, William L., assignor to Oliver Chilled Plow Works, South Bend, Ind. Plow. No. 1,025,829; May 7; Sp. p. 1576; Gaz. vol. 178; p. 250.
Paul, William L., assignor to Oliver Chilled Plow Works, South Bend, Ind. Plow. No. 1,025,830; May 7; Sp. p. 1578; Gaz. vol. 178; p. 250.
Paul, William L., assignor to Oliver Chilled Plow Works, South Bend, Ind. Cultivator. No. 1,028,954; June 11; Sp. p. 1923; Gaz. vol. 179; p. 332.
Paul, William L., assignor to Oliver Chilled Plow Works, South Bend, Ind. Engine gang-plow. No. 1,034,404; July 30; Gaz. vol. 180; p. 1367.
Paul, William L., assignor to Oliver Chilled Plow Works, South Bend, Ind. Cultivator. No. 1,035,039; Aug. 6; Gaz. vol. 181; p. 211.
Paul, William L., assignor to Oliver Chilled Plow Works, South Bend, Ind. Plow. No. 1,037,046; Aug. 27; Gaz. vol. 181; p. 999.
Paul, William L., assignor to Oliver Chilled Plow Works, South Bend, Ind. Plow. No. 1,048,730; Dec. 31; Gaz. vol. 185; p. 1150.
Paulero, Alfonso M., Richmond, Va. Seal. No. 1,038,639; Sept. 17; Gaz. vol. 182; p. 563.
Pauley, Ralph H., Sewickley, Pa. Ticket-cabinet. No. 1,046,488; Dec. 10; Gaz. vol. 185; p. 278.
Pauli, Carl, Roselle Park, N. J., assignor to Diamond Expansion Bolt Company. Expansion-bolt. No. 1,019,723; Mar. 5; Sp. p. 1554; Gaz. vol. 176; p. 241.
Pauli, Carl, Roselle Park, N. J., assignor to New Jersey Foundry and Machine Company. Trolley. No. 1,041,155; Oct. 15; Gaz. vol. 183; p. 567.
Pauling, Harry, Gelsenkirchen, assignor to Salpetersaüre-Industrie-Gesellschaft G. m. b. H., Cologne, Germany. Electrode for producing gas reactions by means of the electric arc. No. 1,029,885; June 18; Sp. p. 3977; Gaz. vol. 179; p. 692.
Pauling, Harry, Gelsenkirchen, assignor to Salpetersaüre-Industrie-Gesellschaft G. m. b. H., Cologne, Germany. Electric furnace for producing gas reactions. No. 1,029,886; June 18; Sp p. 3978; Gaz. vol. 179; p. 692.
Pauling, Harry, assignor to Salpetersäure-Industrie-Gesellschaft, G. m. b. H., Gelsenkirchen, Germany. Concentrating nitric acid. No. 1,031,864; July 9; Gaz. vol. 180; p. 396.
Pauling, Harry, assignor to Salpetersäure-Industrie-Gesellschaft G. M. B. H., Gelsenkirchen, Germany. Concentrating nitric acid. No. 1,031,865; July 9; Gaz. vol. 180; p. 396.
Pauling, Harry, assignor to Salpetersäure-Industrie-Gesellschaft, G. m. b. H., Gelsenkirchen, Germany. Absorbing nitrous gases. No. 1,037,977; Sept. 10; Gaz. vol. 182; p. 303.
Paull, Andrew, Seward, Pa. Trap. No. 1,019,518; Mar. 5; Sp. p. 1173; Gaz. vol. 176; p. 174.
Paull, Samuel, New York, N. Y. Skirt-weight. No. 1,037,518; Sept. 3; Gaz. vol. 182; p. 116.
Paulsen, Christen, Copenhagen, Denmark. Pasteurizing apparatus. No. 1,030,203; June 18; Sp. p. 4646; Gaz. vol. 179; p. 799.
Paulsmeier, Albert C., Alameda, assignor to Byron Jackson Iron Works, West Berkeley, Cal. Automatic balance for centrifugal pumps. No. 1,027,624; May 28; Sp. p. 5540; Gaz. vol. 178; p. 969.
Paulsmeier, Albert C., Alameda, assignor to Byron Jackson Iron Works, West Berkeley, Cal. Automatic centrifugal pump. No. 1,045,432; Nov. 26; Gaz. vol. 184; p. 920.
Paulson, Charles J., Brooklyn, N. Y., assignor, by mesne assignments, to Sterling Typewriter Company. Typewriter. No. 1,025,204; May 7; Sp. p. 209; Gaz. vol. 178; p. 35.
Paulson, Charles J., assignor to A. J. Nothacker, Brooklyn, N. Y. Change-speed gear. No. 1,035,040; Aug. 6; Gaz. vol. 181; p. 212.
Paulson, Fred, Geneva, Ill. Bottle-locking device. No. 1,017,997; Feb. 20; Sp. p. 3929; Gaz. vol. 175; p. 679.
Paulson, Hans, Orting, Wash. Coffee-cooking device. No. 1,024,145; Apr. 23; Sp. p. 5118; Gaz. vol. 177; p. 900.
Paulsrud, Ole, assignor of one-half to W. M. O'Donnell, St. Paul, Minn. Shoe-last. No. 1,048,426; Dec. 24; Gaz. vol. 185; p. 1005.
Paulus, Aaron R., Villisca, Iowa. Track-drill. No. 1,034,825; Aug. 6; Gaz. vol. 181; p. 143.
Paulus, William A., New York, N. Y. Package-band-fastening device. No. 1,021,884; Apr. 2; Sp. p. 286; Gaz. vol. 177; p. 47.
Pauly, Albert A., Youngstown, Ohio. Molding apparatus. No. 1,029,559; June 11; Sp. p. 3230; Gaz. vol. 179; p. 541.
Pauly, Albert A., Youngstown, Ohio. Molding apparatus. No. 1,029,560; June 11; Sp. p. 3231; Gaz. vol. 179; p. 541.
Pauly, Albert A., Youngstown, Ohio. Molding apparatus. No. 1,029,561; June 11; Sp. p. 3233; Gaz. vol. 179; p. 542.
Pauly, Karl A., Schenectady, N. Y., assignor to General Electric Company. System of control. No. 1,026,364; May 14; Sp. p. 2825; Gaz. vol. 178; p. 468.
Paupa, Joseph, and G. F. Hochriem, Chicago, Ill. Coin-controlled mechanism for beam-scales. No. 1,043,352; Nov. 5; Gaz. vol. 184; p. 110.
Paupa, Joseph, and G. F. Hochriem, Chicago, Ill. Weighing mechanism. No. 1,043,353; Nov. 5; Gaz. vol. 184; p. 110.
Pavia, Nicola, and G. Casalis, Turin, Italy. Automatic coupling for railway-carriages. No. 1,031,663; July 2; Gaz. vol. 180; p. 282.
Pavlik, William, Bayport, New York. Tire. No. 1,017,456; Feb. 13; Sp. p. 2725; Gaz. vol. 175; p. 459.
Pawliczek, Albert, Athol, S. D. Penholder. No. 1,028,269; June 4; Sp. p. 453; Gaz. vol. 179; p. 65.
Pax, John W. (See Raymond, Conness T., assignor.)
Paxton, Elmer E., Honolulu, Hawaii. Cane-cutter. No. 1,028,486; June 4; Sp. p. 938; Gaz. vol. 179; p. 140.
Pay-as-You-Enter-Car Corporation, The. (See McDonald, Duncan A. L., assignor.)
Pay, Charles, Providence, R. I. Lifting device for dumping-wagons. No. 1,027,150; May 21; Sp. p. 4597; Gaz. vol. 178; p. 772.
Pay-Within Car Sales Company, The. (See Towle, George C., assignor.)
Payen, John A. A., Scio, Oreg. Shaft-coupling. No. 1,015,906; Jan. 30; Sp. p. 6194; Gaz. vol. 174; p. 1080.
Payer, James, Toronto, Ontario, Canada. Hat-fastener. No. 1,021,111; Mar. 26; Sp. p. 4455; Gaz. vol. 176; p. 824.

Alphabetical list of patentees—Continued.

Payment, Francois X., assignor of one-half to O. W. Johnson, Chicago, Ill. Window. No. 1,018,128; Feb. 20; Sp. p. 4220; Gaz. vol. 175; p. 726.
Payne, Charles H., Cincinnati, Ohio. Calendar-support. No. 1,023,329; Apr. 16; Sp. p. 3387; Gaz. vol. 177; p. 604.
Payne, Charles J., Philadelphia, Pa. Aerial vessel. No. 1,032,699; July 16; Gaz. vol. 180; p. 724.
Payne, Chas. E. (See Johnson, Carl E., assignor.)
Payne, Edward J. (See Martell and Payne.)
Payne, Edward T., and G. F. Cochran, Albuquerque, N. Mex. Rail tie and fastener. No. 1,023,871; Apr. 23; Sp. p. 4490; Gaz. vol. 177; p. 804.
Payne, Ernest E. M., Aylesbury, assignor of one-half to W. H. Staynes, J. H. Smith, and W. H. Sturges, Leicester, England. Production of leather. No. 1,040,400; Oct. 8; Gaz. vol. 183; p. 275.
Payne, George V., Chicago, Ill. Ascertaining the location of leaks in underground fluid-pressure pipes. No. 1,041,156; Oct. 15; Gaz vol. 183; p. 567.
Payne, Joseph, Belmont, Mass. Syringe. No. 1,044,688; Nov. 19; Gaz. vol. 184; p. 634.
Payne, Joseph, Melrose, Mass. Case for hypodermic needles. No. 1,045,607; Nov. 26; Gaz. vol. 184; p. 984.
Payne Manufacturing Company. (See Son, Anthony, assignor.)
Payne, Robert S., Monessen, Pa. Sheet-feeder. No. 1,022,257; Apr. 2; Sp. p. 1065; Gaz. vol. 177; p. 170.
Payne, Sarah G. K., Greenport, N. Y. Combined guard and protector for hat-pins. No. 1,019,695; Mar. 5; Sp. p. 1494; Gaz. vol. 176; p. 231.
Payne, Stephen R., *et al.* (See Williams, Hiram C., assignor.)
Payne, Stephen R. (See Williams and Payne.)
Payne, Thomas F., Nodaway county, Mo. Corn-coverer. No. 1,030,244; June 18; Sp. p. 4728; Gaz. vol. 179; p. 813.
Payne, Thomas F., Pittsburgh, Pa. Joint. No. 1,034,499; Aug. 6; Gaz. vol. 181; p. 33.
Payne, Thomas F., Pittsburgh, Pa. Flushing-valve. No. 1,034,826; Aug. 6; Gaz. vol. 181; p. 143.
Payne, Thomas F., Pittsburgh, Pa. Frost-proof water-closet valve. No. 1,045,433; Nov. 26; Gaz. vol. 184; p. 920.
Payne, Thomas F., Pittsburgh, Pa. Flushing-valve. No. 1,048,866; Dec. 31; Gaz. vol. 185; p. 1197.
Payne, Thomas F., Pittsburgh, Pa. Flushing-valve. No. 1,048,867; Dec. 31; Gaz. vol. 185; p. 1198.
Payne, William J. (See Fairchild, Oren J., assignor.)
Payne, William J. (See Graham, George E., assignor.)
Payne, William S., Sherlock, Wash. Egg marker and dater. No. 1,039,792; Oct. 1; Gaz. vol. 183; p. 41.
Payton, Jesse B., Hydesville, Cal. Saw-set. No. 1,019,352; Mar. 5; Sp. p. 797; Gaz. vol. 176; p. 120.
Payton, Richard, assignor to Deere & Company, Moline, Ill. Plow. No. 1,018,075; Feb. 20; Sp. p. 4108; Gaz. vol. 175; p. 707.
Payton, Richard, assignor to Deere & Company, Moline, Ill. Plow. No. 1,018,076; Feb. 20; Sp. p. 4110; Gaz. vol. 175; p. 708.
Peabody, Ernest H., New York, N. Y., assignor to The Babcock & Wilcox Company, Bayonne, N. J. Mechanical stoker. No. 1,033,192; July 23; Gaz. vol. 180; p. 928.
Peach, John A., Gloversville, N. Y. Base-ball glove. No. 1,026,925; May 21; Sp. p. 4048; Gaz. vol. 178; p. 695.
Peach, Welcome L., Toledo, Ohio. Spark and cinder arrester. No. 1,043,716; Nov. 5; Gaz. vol. 184; p. 236.
Peache, James C., assignor to Willans & Robinson, Limited, Rugby, England. Internal-combustion engine. No. 1,023,957; Apr. 23; Sp. p. 4699; Gaz. vol. 177; p. 833.
Peacock, Benjamin, Philadelphia, Pa., assignor, by mesne assignments, to International Agricultural Corporation, New York, N. Y. Producing potassium hydrogen phosphate. No. 1,046,327; Dec. 3; Gaz. vol. 185; p. 184.
Peacock, Edward L., assignor to The Lake Torpedo Boat Company, Bridgeport, Conn. Submarine or submergible boat. No. 1,037,519; Sept. 3; Gaz. vol. 182; p. 116.
Peacock, Edward M., Jersey City, N. J., assignor to Dairymen's Manufacturing Company. Milk-can. No. 1,013,810; Jan. 2; Sp. p. 1572; Gaz. vol. 174; p. 250.
Peacock, Gordon M. (See Griffin and Peacock.)
Peacock, James K., New York, N. Y. Automatic pipe-relief. No. 1,044,416; Nov. 12; Gaz. vol. 184; p. 509.
Peacock, Samuel, Chicago, Ill. Rendering commercial salts non-corrosive. No. 1,036,896; Aug. 27; Gaz. vol. 181; p. 948.
Peacock, Samuel, Chicago, Ill. Extracting alumina from feldspar. No. 1,036,897; Aug. 27; Gaz. vol. 181; p. 948.
Peacock, Samuel, Chicago, Ill., assignor to The Southern Electro-Chemical Company, New York, N. Y. Making phosphorus trioxid. No. 1,015,707; Jan. 23; Sp. p. 5775; Gaz. vol. 174; p. 984.
Peacock, Samuel, Chicago, Ill., assignor to The Southern Electro-Chemical Company, New York, N. Y. Producing calcium phosphamid. No. 1,047,440; Dec. 17; Gaz. vol. 185; p. 640.
Peacock, Samuel, Chicago, Ill., assignor to E. I. du Pont de Nemours Powder Company. Compound of aluminum, carbon, and nitrogen. No. 1,031,581; July 2; Gaz. vol. 180; p. 254.
Peacock, Samuel, Chicago, Ill., assignor to E. I. du Pont de Nemours Powder Company. Producing ammonia. No. 1,031,582; July 2; Gaz. vol. 180; p. 254.
Peacock, Samuel, Chicago, Ill., assignor to E. I. du Pont de Nemours Powder Company. Producing compounds of aluminum, carbon, and nitrogen. No. 1,035,727; Aug. 13; Gaz. vol. 181; p. 479.
Peacock, Samuel, assignor to American Acid Company, Baltimore, Md. Recovery of silica, alumina, and potash from feldspar. No. 1,030,122; June 18; Sp. p. 4464; Gaz. vol. 179; p. 771.
Peacock, Samuel, assignor to American Acid Company, Baltimore, Md. Extracting alumina and potash from feldspar. No. 1,035,812; Aug. 13; Gaz. vol. 181; p. 507.
Peacock, William G., assignor to The Perfection Bottle Stopper Company, Chicago, Ill. Self-sealing bottle-stopper. No. 1,033,730; July 23; Gaz. vol. 180; p. 1104.
Peaden, William E., Jr., Corbett, Fla. Circular cutter. No. 1,013,845; Jan. 2; Sp. p. 1659; Gaz. vol. 174; p. 263.
Peake, Wilfrid S., Cambridge, England, assignor to Taylor Instrument Companies, Rochester, N. Y. Thermo-electric pyrometer. No. 1,025,715; May 7; Sp. p. 1342; Gaz. vol. 178; p. 209.
Pearce, Charles D., Canton, Mo. Stovepipe attachment. No. 1,039,587; Sept. 24; Gaz. vol. 182; p. 907.
Pearce, Frank, Millers Falls, Mass. Hat and coat hanger. No. 1,025,831; May 7; Sp. p. 1579; Gaz. vol. 178; p. 250.
Pearce, Harold V. (See Collins and Pearce.)
Pearce, Herbert, and T. R. G. Parker, Broadheath, assignors to Linotype and Machinery Limited, London, England. Rotary offset printing-press. No. 1,031,288; July 2; Gaz. vol. 180; p. 155.
Pearce, J. D., *et al.* (See Schweinebraten, Louis G., assignor.)
Pearce, Jesse R. (See Meyers, Roy J., assignor.)
Pearce, Richard F., Liverpool, England. Collection of fume, flue-dust, and other matter suspended in gas. No. 1,028,487; June 4; Sp. p. 940; Gaz. vol. 179; p. 141.
Pearce, Robert T., Montclair, N. J., assignor to H. W. Caldwell & Son Company, Chicago, Ill. Journal-bearing. No. 1,021,846; Apr. 2; Sp. p. 204; Gaz. vol. 177; p. 34.
Pearce, Robert V., Cambridge, Mass. Saw sharpening and gumming machine. No. 1,027,428; May 28; Sp. p. 5166; Gaz. vol. 178; p. 905.
Pearce, William H., Chicago, Ill. Pressure-transformer. No. 1,019,913; Mar. 12; Sp. p. 1945; Gaz. vol. 176; p. 337.
Peardon, Charles H., Palmyra, Wis. Chimney-cleaner. No. 1,048,868; Dec. 31; Gaz. vol. 185; p. 1198.
Pearl, Eugene, Passaic, N. J. Hedge-pruner. No. 1,025,641; May 7; Sp. p. 1201; Gaz. vol. 178; p. 184.
Pearlman, Solomon. (See Armstrong, Thomas H., assignor.)
Pearsall, Albert W., Lowell, Mass. Pneumatic-despatch-tube apparatus. No. 1,031,816; July 9; Gaz. vol. 180; p. 378.
Pearsall, Albert W., Lowell, Mass., assignor to Lamson Consolidated Store Service Company, Newark, N. J. Terminal for pneumatic-despatch-tube apparatus. No. 1,031,866; July 9; Gaz. vol. 180; p. 396.
Pearsall, Albert W., Lowell, Mass., assignor to Lamson Consolidated Store Service Company, Newark, N. J. Pneumatic-despatch-tube apparatus. No. 1,032,155; July 9; Gaz. vol. 180; p. 491.
Pearsall, Albert W., Lowell, Mass., assignor to Lamson Consolidated Store Service Company, Newark, N. J. Blower or pump. No. 1,035,385; Aug. 13; Gaz. vol. 181; p. 364.
Pearsall, James R., and A. D. Hill, assignors of one-third to R. Wadsworth, Rochester, N. Y. Spinning-top. No. 1,025,299; May 7; Sp. p. 416; Gaz. vol. 178; p. 68.
Pearse, Alfred, Hampstead Heath, London, England. Advertising device. No. 1,037,978; Sept. 10; Gaz. vol. 182; p. 304.
Pearse, Norman P., London, England. Roll for cotton-gins and the like. No. 1,043,248; Nov. 5; Gaz. vol. 184; p. 72.
Pearson, Charles, Chicago, Ill., assignor to International Harvester Company. Tandem draft connection for harvesters. No. 1,013,894; Jan. 9; Sp. p. 1795; Gaz. vol. 174; p. 308.
Pearson, Charles, Chicago, Ill., assignor to International Harvester Company. Pitman connection. No. 1,026,826; May 21; Sp. p. 3817; Gaz. vol. 178; p. 660.
Pearson, Charles H. (See McGraw, Walter E., assignor.)
Pearson, Charles H. (See Menns, Walter K., assignor.)
Pearson, Charles O., New York, N. Y. Hoisting apparatus. No. 1,026,118; May 14; Sp. p. 2275; Gaz. vol. 178; p. 384.
Pearson, Charles O., New York, N. Y. Traction-elevator. No. 1,029,627; June 18; Sp. p. 3377; Gaz. vol. 179; p. 602.
Pearson, Charles O., New York, N. Y. Traction-elevator. No. 1,035,230; Aug. 13; Gaz. vol. 181; p. 307.

Alphabetical list of patentees—Continued.

Pearson, Fred, near Downingtown, Pa. Machine for curling the pile of textile fabrics. No. 1,033,459; July 23; Gaz. vol. 180; p. 1016.
Pearson, George D., Montreal, Quebec, Canada. Windmotor. No. 1,027,501; May 28; Sp. p. 5302; Gaz. vol. 178; p. 929.
Pearson, Henry, Springfield, Mass., assignor to J. G. Brill Company, Philadelphia, Pa. Six-wheel car-truck. No. 1,017,312; Feb. 13; Sp. p. 2399; Gaz. vol. 175; p. 408.
Pearson, Hugh W., New York, N. Y. Exhibiting and advertising device. No. 1,032,156; July 9; Gaz. vol. 180; p. 492.
Pearson, John, Chicago, Ill. Car-roof. No. 1,013,811; Jan. 2; Sp. p. 1574; Gaz. vol. 174; p. 251.
Pearson, John, Chicago, Ill. Door mechanism for hopper-cars or the like. No. 1,030,204; June 18; Sp. p. 4648; Gaz. vol. 179; p. 799.
Pearson, John, Chicago, Ill. Car-roof. (Reissue.) No. 13,471; Oct. 1; Gaz. vol. 183; p. 200.
Pearson, John R., New York, N. Y., assignor, by mesne assignments, to Pearson Reciprotary Motor Company. Internal-combustion engine. No. 1,035,899; Aug. 20; Gaz. vol. 181; p. 575.
Pearson, Marshall H., Leicester, England, assignor to United Shoe Machinery Company, Paterson, N. J. Eyeleting-machine. No. 1,013,215; Jan. 2; Sp. p. 266; Gaz. vol. 174; p. 44.
Pearson, Marshall H., Leicester. England, assignor to United Shoe Machinery Company, Paterson, N. J. Sewing-machine. No. 1,029,887; June 18; Sp. p. 3979; Gaz. vol. 179; p. 692.
Pearson, Marshall H., Leicester, England, assignor to United Shoe Machinery Company, Paterson, N. J. Fastener supplying and delivering mechanism. No. 1,030,531; June 25; Sp. p. 5440; Gaz. vol. 179; p. 956.
Pearson Reciprotary Motor Company. (See Pearson, John R., assignor.)
Pearson, Robert B., Duluth, Minn. Door mechanism for ore-pockets or similar receptacles. No. 1,040,237; Oct. 1; Gaz. vol. 183; p. 189.
Pearson, Samuel, Kerrville, Tex. Internal-combustion engine. No. 1,014,668; Jan. 16; Sp. p. 3517; Gaz. vol. 174; p. 603.
Pearson, Thomas F., Billerica, assignor to B. B. Hart, Lowell, Mass. Flying-machine. No. 1,033,827; July 30; Gaz. vol. 180; p. 1164.
Pearson, Walter B., Chicago, Ill., and E. R. Seward; said Seward assignor to The Hartford Machine Screw Company, Hartford, Conn. Counter. No. 1,027,065; May 21; Sp. p. 4401; Gaz. vol. 178; p. 745.
Pearson, William E., Swampscott, Mass. Reversible liquid-motor. No. 1,023,872; Apr. 23; Sp. p. 4492; Gaz. vol. 177; p. 805.
Pearson, William E., Swampscott, Mass. Duplex reversible rotary liquid-motor. No. 1,042,596; Oct. 29; Gaz. vol. 183; p. 1118.
Pearson, William E., Boston, Mass. Flying-machine. No. 1,042,594; Oct. 29; Gaz. vol. 183; p. 1118.
Pearson, William E., Boston, Mass. Rotary motor. No. 1,042,595; Oct. 29; Gaz. vol. 183; p. 1118.
Pearson, Willis A., Troy, Ohio. Wind-shield for automobiles. No. 1,032,857; July 16; Gaz. vol. 180; p. 777.
Pearson, Willis A., Troy, Ohio. Wind-shield hinge. No. 1,039,588; Sept. 24; Gaz. vol. 182; p. 907.
Peart, Benjamin F. (See Merriman and Peart.)
Pease, Durell O., Hampden, Mass. Spinning-machine. No. 1,031,464; July 2; Gaz. vol. 180; p. 215.
Pease, Harold C., Schenectady, N. Y. Lubricant-retainer. No. 1,042,719; Oct. 29; Gaz. vol. 183; p. 1162.
Pease, Hugh. (See Stump, Ira E., assignor.)
Pease, John A., Gypsum, Kans. Drill. No. 1,042,597; Oct. 29; Gaz. vol. 183; p. 1119.
Pease, William H., Mount Vernon, N. Y. Illuminating device. No. 1,036,000; Aug. 20; Gaz. vol. 181; p. 607.
Peat Industries. (See Krupp, Leo A., assignor.)
Peate, George A., and T. Beattie, Montreal, Quebec, Canada. Device for preventing and curing stammering and stuttering. No. 1,030,964; July 2; Gaz. vol. 180; p. 40.
Peate, George A., and T. Beattie, Montreal, Quebec, Canada. Device for preventing and curing stammering and stuttering. No. 1,030,965; July 2; Gaz. vol. 180; p. 40.
Peaucellier, Max, Paris, France. Electric-lamp socket. No. 1,013,434; Jan. 2; Sp. p. 760; Gaz. vol. 174; p. 120.
Peay, George T., Jr., Provo, Utah. Flying-machine. No. 1,033,460; July 23; Gaz. vol. 180; p. 1017.
Pecard, Phillip, Lena, Wis. Swingle or double tree. No. 1,039,318; Sept. 24; Gaz. vol. 182; p. 812.
Pechstein, Bruno M., assignor to Gebruder Jacob, Zwickau, Germany. Metallic flexible hose-pipe. No. 1,023,032; Apr. 9; Sp. p. 2714; Gaz. vol. 177; p. 464.
Peck, Carlos C. (See Babcock, Fred A., assignor.)
Peck, E. W. (See Owen, Thomas R., assignor.)
Peck, Edwin A., assignor of one-half to A. R. Corn, Denver, Colo. Brake-block holder. No. 1,027,390; May 21; Sp. p. 5079; Gaz. vol. 178; p. 854.
Peck, Elbert C., San Bernardino, Cal. Air-mixing attachment for carbureters. No. 1,045,073; Nov. 19; Gaz. vol. 184; p. 767.
Peck, Frank B., Mount Vernon, Mo. Road-machine. No. 1,014,023; Jan. 9; Sp. p. 2093; Gaz. vol. 174; p. 351.
Peck, Frank G., Colorado Springs, Colo. Wash-solution collector. No. 1,030,918; July 2; Gaz. vol. 180; p. 23.
Peck, Frederick A. (See Johnson, Henry C., assignor.)
Peck, Frederick S. (See Fisher, Emanuel, Jr., assignor.)
Peck, George W., Jr., and W. M. Farrow, Sr., Washington, D. C. Rear gun-sight. No. 1,027.891; May 28; Sp. p. 6182; Gaz. vol. 178; p. 1060.
Peck, George W., Jr., and W. M. Farrow, Sr., Washington, D. C. Front gun-sight. No. 1,027,892; May 28; Sp. p. 6184; Gaz. vol. 178; p. 1060.
Peck, George W., Jr., and W. M. Farrow, Sr., Washington, D. C. Firearm. No. 1,027,893; May 28; Sp. p. 6186; Gaz. vol. 178; p. 1061.
Peck, Hartwig O. (See Reichenbach and Peck.)
Peck, Irving W., Bradentown, Fla. Cover for peach-baskets. No. 1,030,123; June 18; Sp. p. 4465; Gaz. vol. 179; p. 772.
Peck, Jacob G. (See Reichenbach and Peck.)
Peck, John S., Manchester, England, assignor to Westinghouse Electric and Manufacturing Company. System of electrical distribution. No. 1,015,974; Jan. 30; Sp. p. 6338; Gaz. vol. 174; p. 1103.
Peck, John S., Trafford Park, Manchester, England, assignor to Westinghouse Electric and Manufacturing Company. Transformer cut-out for alternating-current circuits. No. 1,036,696; Aug. 27; Gaz. vol. 181; p. 882.
Peck, Louis K., Syracuse, N. Y. Steam and hot-water heater. No. 1,023,591; Apr. 16; Sp. p. 3906; Gaz. vol. 177; p. 687.
Peck, Philip C. (See Ladoff, Isador, assignor.)
Peck, Staunton B., assignor to Link-Belt Company, Chicago, Ill. Casing for friction-clutches. No. 1,020,441; Mar. 19; Sp. p. 3039; Gaz. vol. 176; p. 550.
Peck, William A., New Haven, Conn. Push-drill. No. 1,033,615; July 23; Gaz. vol. 180; p. 1068.
Peck, William J., assignor to Crunden-Martin Woodenware Company, St. Louis, Mo. Mop. No. 1,045,173; Nov. 26; Gaz. vol. 184; p. 830.
Peck, William O., Belgrade, Nebr. Lifter. No. 1,035,728; Aug. 13; Gaz. vol. 181; p. 479.
Peck, William T., assignor to The United Cigarette Machine Company, Lt'd., Lynchburg, Va. Blower-valve. No. 1,018,847; Feb. 27; Sp. p. 5804; Gaz. vol. 175; p. 1002.
Peckelsen, Franz, Dinslaken, Germany. Pug-mill. No. 1,016,644; Feb. 6; Sp. p. 949; Gaz. vol. 175; p. 143.
Peckham, John H., Fraser, Idaho. Lantern attachment. No. 1,038,427; Sept. 10; Gaz. vol. 182; p. 454.
Peddle, George A., Philadelphia, Pa. Tool for cutting interior screw-threads. No. 1,027,625; May 28; Sp. p. 5544; Gaz. vol. 178; p. 970.
Peddy, Thomas T., Bienville, La. Ventilator and deflector. No. 1,019,696; Mar. 5; Sp. p. 1495; Gaz. vol. 176; p. 232.
Peddy, Thomas T., Bienville, La., and G. F. Gallagher, Rochester, N. Y. Combined deflector and ventilator. No. 1,025,832; May 7; Sp. p. 1580; Gaz. vol. 178; p. 251.
Pedersen, Harald. (See Borchers and Pedersen.)
Pedersen, Johannes T., Woodside, assignor to Pedersen Manufacturing Co., New York, N. Y. Pump. No. 1,018,129; Feb. 20; Sp. p. 4221; Gaz. vol. 175; p. 726.
Pedersen, John D., Jackson, Wyo. Firearm. No. 1,023,169; Apr. 16; Sp. p. 3069; Gaz. vol. 177; p. 549.
Pedersen, John D., Jackson, Wyo. Magazine for firearms. No. 1,043,354; Nov. 5; Gaz. vol. 184; p. 111.
Pedersen, John D., Jackson, Wyo. Firearm. No. 1,044,568; Nov. 19; Gaz. vol. 184; p. 590.
Pedersen Manufacturing Co. (See Pedersën, Johannes T., assignor.)
Pedersen, Sören A., Christiania, Norway. Fog-signaling apparatus. No. 1,034,729; Aug. 6; Gaz. vol. 181; p. 109.
Pederson, Charles S., Grantsburg, Wis. Portable fireproof safe. No. 1,038,428; Sept. 10; Gaz. vol. 182; p. 455.
Pederson, Christian H., Eau Claire, Wis. Fountain-brush. No. 1,042,032; Oct. 22; Gaz. vol. 183; p. 899.
Pederson, Louis C., and R. Willis, Philadelphia, Pa. Device for holding bottles, mail, and the like. No. 1,032,497; July 16; Gaz. vol. 180; p. 653.
Pederson, Peder T., assignor of one-half to H. A. Rekstad, Willow Lake, S. D. Toy pistol. No. 1,030,532; June 25; Sp. p. 5444; Gaz. vol. 179; p. 956.
Pedle, John W., Souris, N. D. Gearing. No. 1,015,507; Jan. 23; Sp. p. 5334; Gaz. vol. 174; p. 915.
Pedley, William E., Riverside, Cal. Wall construction for dams or dikes. No. 1,013,610; Jan. 2; Sp. p. 1125; Gaz. vol. 174; p. 180.
Pedley, William E., Riverside, Cal. Jet-pump. No. 1,031,289; July 2; Gaz. vol. 180; p. 155.
Pedrick, Howard A., assignor to H. B. Underwood & Company, Philadelphia, Pa. Cylinder-boring machine. No. 1,028,600; June 4; Sp. p. 1167; Gaz. vol. 179; p. 178.
Peebles, John C., assignor of one-half to J. D. Leichenger, Chicago, Ill. Container. No. 1,031,867; July 9; Gaz. vol. 180; p. 397.
Peek, Frank W., Jr., Schenectady, N. Y., assignor to General Electric Company. Apparatus for producing a gaseous reaction. No. 1,041.340; Oct. 15; Gaz. vol. 183; p. 630.

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Peck, James A., assignor of one-half to G. Shupp, North Manchester, Ind. Desk. No. 1,016,952; Feb. 13; Sp. p. 1607; Gaz. vol. 175; p. 283.
Peel, Charles F., New York, N. Y. Safety device. No. 1,019,081; Mar. 5; Sp. p. 159; Gaz. vol. 176; p. 26.
Peel, Peter, Salinas, Cal. Animal-releasing means. No. 1,024,649; Apr. 30; Sp. p. 6282; Gaz. vol. 177; p. 1107.
Peel, Vance W., Topeka, Kans. Combined latch and handle. No. 1,015,338; Jan. 23; Sp. p. 4974; Gaz. vol. 174; p. 858.
Peelle, Caleb M., Brooklyn, assignor to The Peelle Co., New York, N. Y. Latch for elevator-doors. No. 1,032,498; July 16; Gaz. vol. 180; p. 653.
Peelle Co., The. (See Peelle, Caleb M., assignor.)
Peerless Electric Company, The. (See Kargau, Theodore, assignor.)
Peerless Insulated Wire and Cable Company. (See Randall, Franklin S., assignor.)
Peerless Motor Car Company, The. (See Wackwitz, Ernest F., assignor.)
Peerless Tube Co. (See Neidlinger, George H., assignor.)
Peet, Wilbur G., assignor of one-half to The Kilpatrick & Hotz Company, Bridgeport, Conn. Socket-switch. No. 1,037,304; Sept. 3; Gaz. vol. 182; p. 42.
Peetz, John L. (See Boswell, George G. F., assignor.)
Pegg, William M., *et al.* (See Hammock, Robert E., assignor.)
Peglar, Richard A., Toronto, Ontario, Canada. Overhead trolley. No. 1,034,292; July 30; Gaz. vol. 180; p. 1328.
Pegrim, Raymond C., Cedar Hill, Tenn. Harrow. No. 1,022,500; Apr. 9; Sp. p. 1576; Gaz. vol. 177; p. 282.
Pehrson, Johan M., Stockholm, Sweden. Hook. No. 1,032,935; July 16; Gaz. vol. 180; p. 801.
Peichl, Joseph von, Vienna, Austria-Hungary. Bowing device for zithers, violins, and other stringed instruments. No. 1,034,293; July 30; Gaz. vol. 180; p. 1328.
Peigler, Commodore T., Greenville, S. C. Rotary engine. No. 1,037,655; Sept. 3; Gaz. vol. 182; p. 161.
Pein, Edward J. von, assignor to The National Cash Register Company, Dayton, Ohio. Change-making cash-register. No. 1,034,500; Aug. 6; Gaz. vol. 181; p. 34.
Peirce, Fisher & Clapp. (See Elwell, William R., assignor.)
Peirce, William C., assignor to Providence Machine Company, Providence, R. I. Roving-machine. No. 1,021,626; Mar. 26; Sp. p. 5567; Gaz. vol. 176; p. 1000.
Peirsel, Isaac F., *et al.* (See Magee, Francis L., assignor.)
Peisar, Edward L., Glenwood Springs, Colo. Water-elevating apparatus. No. 1,044,079; Nov. 12; Gaz. vol. 184; p. 394.
Pejchar, Josef, New York, N. Y. Metallic link fabric. No. 1,019,830; Mar. 12; Sp. p. 1755; Gaz. vol. 176; p. 308.
Pejeau, Alburt D., assignor to The American Multigraph Company, Cleveland, Ohio. Paper-feeding device. No. 1,013,308; Jan. 2; Sp. p. 491; Gaz. vol. 174; p. 77.
Pelchat, Hilaire. (See Pelchat, John O. and H.)
Pelchat, John O. and H., Central Falls, R. I. Hat-pin protector. No. 1,019,697; Mar. 5; Sp. p. 1497; Gaz. vol. 176; p. 232.
Pelham, Alphonzo E. (See Sill, Richard V., assignor.)
Pélissier, Fénelon, Gonaives, Haiti. Bumper. No. 1,049,261; Dec. 31; Gaz. vol. 185; p. 1333.
Pellaxio, John. (See Lowe, James, assignor.)
Peller, D. L., *et al.* (See Doyle, James, assignor.)
Pelletier, Frank D., Kansas City, Mo. Costumer or clothes-rack. No. 1,042,262; Oct. 22; Gaz. vol. 183; p. 974.
Pelletier, Frank D., Kansas City, Mo. Clothes-rack. No. 1,047,694; Dec. 17; Gaz. vol. 185; p. 732.
Pellissier, George E., Jersey City, N. J., assignor to L. D. Pellissier, Holyoke, Mass. Adjustable rail-grinder. No. 1,031,959; July 9; Gaz. vol. 180; p. 428.
Pellissier, George E., Jersey City, N. J., assignor to L. D. Pellissier, Holyoke, Mass. Propulsion mechanism for rail-grinders. No. 1,032,499; July 16; Gaz. vol. 180; p. 654.
Pellissier, George E., Jersey City, N. J., assignor to L. D. Pellissier, Holyoke, Mass. Rail-grinder. No. 1,034,029; July 30; Gaz. vol. 180; p. 1237.
Pellissier, Louis D. (See Pellissier, George E., assignor.)
Peloquin, Louis, Southbridge, Mass. Chalk-holder. No. 1,016,953; Feb. 13; Sp. p. 1608; Gaz. vol. 175; p. 283.
Peloquin, Louis, Southbridge, Mass. Means for securing tips to billiard-cues. No. 1,029,943; June 18; Sp. p. 4098; Gaz. vol. 179; p. 711.
Pelouze Electric Heater Co. (See Madsen, Charles P., assignor.)
Pelouze Manufacturing Company. (See Madsen, Charles P., assignor.)
Pelouze Manufacturing Company. (See Schwartz, Edward, assignor.)
Pelouze, William N., Chicago, Ill. Weighing-scale. No. 1,019,698; Mar. 5; Sp. p. 1498; Gaz. vol. 176; p. 232.
Pelton & Crane. (See Crane, Ernest M., assignor.)
Pelton, George M., assignor to The Filer & Stowell Company, Milwaukee, Wis. Sawmill set-works. No. 1,043,355; Nov. 5; Gaz. vol. 184; p. 111.
Pelton, Myron S., Folsom, Cal. Photographic-process basket. No. 1,027,626; May 28; Sp. p. 5545; Gaz. vol. 178; p. 970.
Pelton Water Wheel Company, The. (See Jackson, Charles A., assignor.)
Pelusi, Silvio, Pittsburgh, Pa. Rail-joint. No. 1,044,812; Nov. 19; Gaz. vol. 184; p. 677.
Pember, Clifford F. (See Taft and Pember.)
Pemberton, Edward L., New Haven, Conn., assignor to Edgar Allen American Manganese Steel Company, Augusta, Me. Adjustable crusher-head for rock-crushers. No. 1,035,041; Aug. 6; Gaz. vol. 181; p. 212.
Pembroke, Winfield P., Rochester, N. Y. Explosive-engine. No. 1,036,321; Aug. 20; Gaz. vol. 181; p. 722.
Pement, Joseph A. (See Hyle, Jacob A., assignor.)
Pement, Joseph A. (See Hyle and Pement.)
Penberthy Injector Co. (See Pribil, Alexis R., assignor.)
Penberthy Injector Company. (See O'Leary, Frank J., assignor.)
Pence, Frank. (See Alexander and Pence.)
Pence, Lafe V., Indianapolis, Ind. Two-cycle combustion-engine. No. 1,043,537; Nov. 5; Gaz. vol. 184; p. 176.
Pender, James. (See Pender, John F., assignor.)
Pender, James E. P., Providence, R. I., assignor to Bristol Jewelry Company, Incorporated. Egg-cup. No. 1,030,324; June 25; Sp. p. 4941; Gaz. vol. 179; p. 881.
Pender, John F., assignor of one-half to J. Pender, St. John, New Brunswick, Canada. Wire-drawing machine. No. 1,026,119; May 14; Sp. p. 2279; Gaz. vol. 178; p. 384.
Pendergast, Frederick W., Cambridge, Mass. Broom. No. 1,015,066; Jan. 16; Sp. p. 4401; Gaz. vol. 174; p. 739.
Pendergast, Frederick W., Cambridge, Mass. Broom. No. 1,025,300; May 7; Sp. p. 418; Gaz. vol. 178; p. 68.
Pendergraft, Elbert W., Seligman, Mo. Popcorn-popper. No. 1,025,716; May 7; Sp. p. 1344; Gaz. vol. 178; p. 209.
Pendexter, Edward F., Milford, Mass. Car-coupling. No. 1,038,786; Sept. 17; Gaz. vol. 182; p. 614.
Penfield, James C. and J. N., assignors of two-sixths to T. F. Loughran, three-sixths to W. W. Richards, and one-sixth to L. M. Olsen, Grand Junction, Colo. Prorating-weir. No. 1,037,656; Sept. 3; Gaz. vol. 182; p. 161.
Penfield, John N. (See Penfield, James C. and J. N.)
Penfield, Ramond C. (See Wallace, William W., assignor.)
Penfield, Raymond C., New York, N. Y. Brick-stacking. No. 1,013,683; Jan. 2; Sp. p. 1330; Gaz. vol. 174; p. 206.
Penfield, Raymond C., New York, N. Y. Dry-pan. (Reissue.) No. 13,356; Jan. 9; Sp. p. 3420; Gaz. vol. 174; p. 566.
Penfield, Raymond C., New York, N. Y. Walling and daubing brick-kilns. No. 1,014,901; Jan. 16; Sp. p. 4038; Gaz. vol. 174; p. 683.
Penfield, Raymond C., New York, N. Y. Apparatus for hacking bricks. No. 1,020,572; Mar. 19; Sp. p. 3320; Gaz. vol. 176; p. 593.
Penfield, Raymond C., New York, N. Y. Hoisting mechanism for brick-setters and the like. No. 1,025,155; May 7; Sp. p. 94; Gaz. vol. 178; p. 17.
Penfield, Raymond C., New York, N. Y. Brick-backing apparatus. No. 1,026,046; May 14; Sp. p. 2091; Gaz. vol. 178; p. 358.
Penfield, Raymond C., New York, N. Y. Brick-sanding machine. No. 1,047,695; Dec. 17; Gaz. vol. 185; p. 733.
Peniakoff, Dmitry A., Brussels, Belgium. Manufacture of alkali aluminates. No. 1,045,097; Nov. 19; Gaz. vol. 184; p. 776.
Penick, Walter H., Martin, Tenn. Lamp. No. 1,029,457; June 11; Sp. p. 3025; Gaz. vol. 179; p. 506.
Peninsular Milled Screw Company. (See Caswell, William L., assignor.)
Penisten, Charles E. (See Heflin and Penisten.)
Penn, Charles F. (See Rand, Frank P., assignor.)
Penn, Charles F., and F. P. Rand, Spokane, Wash. Trap poison-receptacle. No. 1,047,282; Dec. 17; Gaz. vol. 185; p. 586.
Penn, Frederick W., Petaluma, Cal. Temperature-controller. No. 1,014,511; Jan. 9; Sp. p. 3119; Gaz. vol. 174; p. 518.
Penn, Frederick W., Petaluma, Cal. Oil-burner. No. 1,039,319; Sept. 24; Gaz. vol. 182; p. 812.
Penn Hardware Company. (See Cleaver, George E., assignor.)
Penn, Harry J., Madison, N. C. Container for plug-tobacco. No. 1,030,745; June 25; Sp. p. 6061; Gaz. vol. 179; p. 1032.
Penn, Harry J., Madison, N. C. Forming caddies of plug-tobacco. No. 1,030,746; June 25; Sp. p. 6063; Gaz. vol. 179; p. 1033.
Penn Mining & Reduction Company. (See Luckenbach, Royer, assignor.)
Penn, William E., Lake Mills, Wis., assignor to Creamery Package Manufacturing Company, Chicago, Ill. Ice-breaker. No. 1,032,081; July 9; Gaz. vol. 180; p. 467.
Penn Yan Flexible Conduit Company. (See Wheeler and Ramsey, assignors.)
Pennebaker, Edwin R., Rome, Ga. Safety attachment for watch-pockets. No. 1,030,488; June 25; Sp. p. 5305; Gaz. vol. 179; p. 940.
Pennell, John W., Youngstown, Ohio. Trolley-wheel. No. 1,039,589; Sept. 24; Gaz. vol. 182; p. 907.

Alphabetical list of patentees—Continued.

Penney, Harold D., Pelham, and C. A. Weed, New York, N. Y. Mask for automobile-lamps. No. 1,013,895; Jan. 9; Sp. p. 1796; Gaz. vol. 174; p. 308.
Penney, Herbert, Hamilton, Ontario, Canada. Tobacco-box. No. 1,015,830; Jan. 30; Sp. p. 6027; Gaz. vol. 174; p. 1052.
Penney, Loren W. (See Mills and Penney.)
Penney, Loren W., assignor, by mesne assignments, to Saco-Pettee Company, Newton, Mass. Gear-cutting machine. No. 1,036,322; Aug. 20; Gaz. vol. 181; p. 723.
Pennie, John C. (See Schulze, Andrew, assignor.)
Pennington, Mary E., Philadelphia, Pa., and H. C. Pierce, Worcester, Mass. Poultry-cooling rack. No. 1,020,575; Mar. 19; Sp. p. 3343; Gaz. vol. 176; p. 594.
Pennock, John D. (See Trump and Pennock.)
Pennock, Walter I., Philadelphia, Pa. Apparatus for collecting electrical energy. No. 1,014,719; Jan. 16; Sp. p. 3629; Gaz. vol. 174; p. 621.
Pennock, Willard, Minerva, Ohio. Automobile-horn. No. 1,022,564; Apr. 9; Sp. p. 1711; Gaz. vol. 177; p. 302.
Pennock, Willard, Minerva, assignor to The Canton Steel Foundry Company, Canton, Ohio. Metallic railway-tie. No. 1,023,392; Apr. 16; Sp. p. 3508; Gaz. vol. 177; p. 625.
Pennsylvania Globe Gas Light Company, The. (See Slinack, Victor H., assignor.)
Pennsylvania Salt Manufacturing Company. (See Davis, Robert W., Jr., assignor.)
Pennsylvania Steel Railway Tie Company, The. (See Shoemaker, Samuel, assignor.)
Penny, Herbert T., Saugus, Mass. Game-stick. No. 1,038,429; Sept. 10; Gaz. vol. 182; p. 455.
Pennypacker, Edward J., assignor to Baker Iron Works, Los Angeles, Cal. Well-casing machine. No. 1,040,252; Oct. 1; Gaz. vol. 183; p. 194.
Pennypacker, Edward J., assignor to Baker Iron Works, Los Angeles, Cal. Riveting-machine. No. 1,044,813; Nov. 19; Gaz. vol. 184; p. 677.
Peno, Alexander L., Chicago, Ill. Sheet-carrier for printing-presses. No. 1,031,465; July 2; Gaz. vol. 180; p. 215.
Penrose, Edward R. (See Klein and Penrose.)
Penry, Wilbert W., Echo, Oreg. Water-carrier. No. 1,038,641; Sept. 17; Gaz. vol. 182; p. 563.
Pentek, Joe, *et al.* (See Molnár, Steve, assignor.)
Pentek, Jozsef, *et al.* (See Klemovics, Janos, assignor.)
Penz, John. (See Pinkett, Robert, assignor.)
People of the United States. (See Eder, Theodore, assignor.)
People of the United States. (See Meyer, Willy and J., assignors.)
Peoples, Charles B., and A. E. Yelton, Butler, Ky. Milk-can. No. 1,030,325; June 25; Sp. p. 4943; Gaz. vol. 179; p. 881.
Pepin, George J., Bottineau, N. D. Whiffletree attachment. No. 1,020,442; Mar. 19; Sp. p. 3041; Gaz. vol. 176; p. 550.
Peplinski, Julius W., assignor to Security Savings and Trust Co., trustee, Erie, Pa. Cut-off device for fluid-fuel burners. No. 1,039,793; Oct. 1; Gaz. vol. 183; p. 42.
Peplowski, Wladyslaw, New York, N. Y. Bracket. No. 1,030,205; June 18; Sp. p. 4651; Gaz. vol. 179; p. 799.
Pepper, William A., Smithville, Mo. Fence-post. No. 1,015,206; Jan. 16; Sp. p. 4660; Gaz. vol. 174; p. 786.
Perce, Warren R., Providence, R. I. Cuff-pin. No. 1,047,441; Dec. 17; Gaz. vol. 185; p. 640.
Percival, Herbert E., assignor of one-half to C. J. N. Hansen, Houston, Tex. Mold for cement or concrete ties. No. 1,036,697; Aug. 27; Gaz. vol. 181; p. 882.
Percy, Frank T., assignor to E. L. Huyck, Rochester, N. Y. Liquid-dispensing machine. No. 1,030,854; June 25; Sp. p. 6447; Gaz. vol. 179; p. 1074.
Perew, Louis P., North Tonawanda, and U. J. Rogers, Tonawanda, assignors to The Kitchenette Company, Buffalo, N. Y. Dish-washing machine. No. 1,039,794; Oct. 1; Gaz. vol. 183; p. 42.
Pereyra, Eugene S., Brooklyn, N. Y. Wiring-block. No. 1,014,720; Jan. 16; Sp. p. 3631; Gaz. vol. 174; p. 621.
Perez, Miguel, Chicago, Ill. Non-refillable bottle. No. 1,034,030; July 30; Gaz. vol. 180; p. 1238.
Perez, Waldo F., Tampa, Fla. Fender for automobiles. No. 1,023,393; Apr. 16; Sp. p. 3510; Gaz. vol. 177; p. 625.
Perfect Bottle Cap Company, The. (See Lindsay, William E., assignor.)
Perfect Sliding Door Company, The. (See Schuyler and Laughlin, assignors.)
Perfect Vacuum Can Co. (See Malmquist, Adolph, assignor.)
Perfection Biscuit Company. (See Naylor, Augustine F., assignor.)
Perfection Bottle Stopper Company, The. (See Peacock, William G., assignor.)
Perfection Check Protector Company, The. (See Bear, William L., assignor.)
Perfection Spring Company, The. (See McIntyre, Michael M., assignor.)
Perham, Charles F., Lowell, Mass. Winding-machine. No. 1,041,157; Oct. 15; Gaz. vol. 183; p. 568.
Perham, Haven C., assignor to Kitson Machine Shop, Lowell, Mass. Condenser-lap machine. No. 1,034,827; Aug. 6; Gaz. vol. 181; p. 144.
Perham, Haven C., assignor to Kitson Machine Shop, Lowell, Mass. Condenser-lap machine. No. 1,034,828; Aug. 6; Gaz. vol. 181; p. 144.
Perham, Haven C., assignor to Kitson Machine Shop, Lowell, Mass. Condenser-lap machine. No. 1,034,829; Aug. 6; Gaz. vol. 181; p. 144.
Peri, Eva, Sacramento, assignor of one-half to M. Strand, San Francisco, Cal. Salt and pepper cellar. No. 1,014,413; Jan. 9; Sp. p. 2945; Gaz. vol. 174; p. 488.
Perigny, Jean M., Lyon, France, assignor to Gallia, Société Anonyme, Geneva, Switzerland. Manufacture of cream of tartar. No. 1,023,528; Apr. 16; Sp. p. 3769; Gaz. vol. 177; p. 666.
Perkins, Augustus T., Chicago, Ill. Bucket conveyer. No. 1,040,005; Oct. 1; Gaz. vol. 183; p. 111.
Perkins Electric Switch Company, The. (See Anderson, Eric, assignor.)
Perkins Electric Switch Manufacturing Company, The. (See Castonguay, Leger J., assignor.)
Perkins Electric Switch Manufacturing Company, The. (See Eisenmann, Carl W., assignor.)
Perkins Electric Switch Manufacturing Company, The. (See Thomas and Anderson, assignors.)
Perkins Electric Switch Manufacturing Company, The. (See Wallbillich, Anthony F., assignor.)
Perkins, Elmer E., Chicago, Ill. Car-bunk. No. 1,019,353; Mar. 5; Sp. p. 798; Gaz. vol. 176; p. 120.
Perkins, Elmer E., Chicago, Ill. Drying-room. No. 1,036,323; Aug. 20; Gaz. vol. 181; p. 723.
Perkins, Frank C., Buffalo, N. Y. Process and apparatus for welding. No. 1,037,979; Sept. 10; Gaz. vol. 182; p. 304.
Perkins, Frank C., Buffalo, and M. M. Buck, Franklinville, N. Y.; said Perkins assignor to said Buck. Electric heater. No. 1,035,042; Aug. 6; Gaz. vol. 181; p. 213.
Perkins, Frank G., deceased, South Bend, Ind.; G. S. Perkins, executrix, assignor to Perkins Glue Company. Glue and making the same. No. 1,020,655; Mar. 19; Sp. p. 3505; Gaz. vol. 176; p. 619.
Perkins, Frank G., deceased, South Bend, Ind.; G. S. Perkins, executrix, assignor to Perkins Glue Company. Making glue. No. 1,020,656; Mar. 19; Sp. p. 3512; Gaz. vol. 176; p. 619.
Perkins, Frank G., deceased, Lansdale, Pa.; G. S. Perkins, South Bend, Ind., executrix, assignor to Perkins Glue Company. Glue joint. No. 1,020,657; Mar. 19; Sp. p. 3514; Gaz. vol. 176; p. 620.
Perkins, Frank G., deceased; G. S. Perkins, executrix, South Bend, Ind., assignor to Perkins Glue Company. Glue and making the same. (Reissue.) No. 13,436; July 2; Gaz. vol. 180; p. 288.
Perkins, Frank G., deceased, Lansdale, Pa.; G. S. Perkins, South Bend, Ind., executrix, assignor to Perkins Glue Company. Glue joint. (Reissue.) No. 13,443; July 16; Gaz. vol. 180; p. 850.
Perkins, Franklin J., Woburn, assignor, by mesne assignments, to The Turner Tanning Machinery Company, Peabody, Mass. Belt-knife fleshing-machine. No. 1,047,981; Dec. 24; Gaz. vol. 185; p. 856.
Perkins, Fred. (See Sherman and Perkins.)
Perkins, George G. (See Halsey and Perkins.)
Perkins, George W., Chelsea, assignor to Heaton-Peninsular Button Fastener Company, Boston, Mass. Wire-feed mechanism. No. 1,017,628; Feb. 13; Sp. p. 3044; Gaz. vol. 175; p. 513.
Perkins, George W., assignor to Heaton-Peninsular Button Fastener Company, Boston, Mass. Machine for fastening buttons on shoes and other articles. No. 1,043,862; Nov. 12; Gaz. vol. 184; p. 317.
Perkins, Gertrude S., executrix. (See Perkins, Frank G.)
Perkins, Gertrude S., executrix. (See Perkins, Frank G.) (Reissue.)
Perkins Glue Company. (See Perkins, Frank G., assignor.)
Perkins, Gregory, Sr., Los Angeles, Cal. Construction of road-beds and railway-tracks. No. 1,046,635; Dec. 10; Gaz. vol. 185; p. 331.
Perkins, Harry K. (See Rumsey, Oscar C., assignor.)
Perkins, Henry, assignor of one-half to H. J. Mercer, Los Angeles, Cal. Honey-frame. No. 1,014,171; Jan. 9; Sp. p. 2396; Gaz. vol. 174; p. 401.
Perkins, Herbert E., Des Moines, Iowa. Bed or berth attachment. No. 1,037,305; Sept. 3; Gaz. vol. 182; p. 42.
Perkins, James D., Atlanta, Ga. Mail-handling apparatus. No. 1,048,339; Dec. 24; Gaz. vol. 185; p. 977.
Perkins, James D., Atlanta, Ga., assignor to T. C. Biggs and R. F. Bishop. Railway-switch. No. 1,014,092; Jan. 9; Sp. p. 2233; Gaz. vol. 174; p. 374.
Perkins, James F., assignor to A. Y. Seely, Blaine, Wash. Weighing-machine. No. 1,016,850; Feb. 6; Sp. p. 1359; Gaz. vol. 175; p. 210.
Perkins, James T., assignor of one-half to W. R. Golsan, Cedartown, Ga. Brake-shoe. No. 1,017,015; Feb. 13; Sp. p. 1741; Gaz. vol. 175; p. 304.
Perkins, John L. (See Avery, Henry C., assignor.)
Perkins, John L. (See Stanley and Perkins.)

Alphabetical list of patentees—Continued.

Perkins, Joseph W., and D. W. Roberts, Youngstown, Ohio. Convertible wrench. No. 1,013,812; Jan. 2; Sp. p. 1576; Gaz. vol. 174; p. 251.
Perkins, Nathan W., Jr., East Orange, N. J. Handle mechanism. No. 1,016,287; Feb. 6; Sp. p. 114; Gaz. vol. 175; p. 18.
Perkins, Thomas G., Seattle, Wash. Ice-cream-cone machine. No. 1,039,183; Sept. 24; Gaz. vol. 182; p. 763.
Perkins, Walter H., assignor to J. B. Wise, Watertown, N. Y. L. No. 1,025,642; May 7; Sp. p. 1202; Gaz. vol. 178; p. 185.
Perkins, William H., Fort Worth, Tex. Closer for cans and the like. No. 1,027,429; May 28; Sp. p. 5168; Gaz. vol. 178; p. 906.
Perks, Walter G. (See Harrison, Bate, and Perks.)
Perky, Henry D., deceased, Glencoe, Md.; L. Sparks, administrator, assignor, by mesne assignments, to The Shredded Wheat Company, Niagara Falls, N. Y. Manufacturing grain into form for food. No. 1,019,831; Mar. 12; Sp. p. 1757; Gaz. vol. 176; p. 308.
Perky, Henry D., deceased, Glencoe, Md.; L. Sparks, administrator, assignor, by mesne assignments, to The Shredded Wheat Company, Niagara Falls, N. Y. Reducing ground grain to elongated or filament form. No. 1,021,473; Mar. 26; Sp. p. 5273; Gaz. vol. 176; p. 950.
Perky, Henry D., deceased, Glencoe, Md.; L. Sparks, administrator, assignor, by mesne assignments, to The Shredded Wheat Company, Niagara Falls, N. Y. Machine for manufacturing grain into form for food. No. 1,022,501; Apr. 9; Sp. p. 1577; Gaz. vol. 177; p. 282.
Perky, Henry D., deceased, Glencoe, Md.; L. Sparks, administrator, assignor, by mesne assignments, to The Shredded Wheat Company, Niagara Falls, N. Y. Food from grain and making the same. No. 1,026,047; May 14; Sp. p. 2106; Gaz. vol. 178; p. 358.
Perley, Edgar J., Emerson, Iowa. Safety-rack. No. 1,037,520; Sept. 3; Gaz. vol. 182; p. 117.
Perlik, Joseph F., Pittsburgh, Pa. Level. No. 1,017,457; Feb. 13; Sp. p. 2726; Gaz. vol. 175; p. 459.
Perlman, Abraham, assignor to A. Perlman Iron Works, New York, N. Y. Fire-escape. No. 1,016,437; Feb. 6; Sp. p. 459; Gaz. vol. 175; p. 70.
Perlman, Abraham, assignor to Star Ball Bearing Door Hanger Company, New York, N. Y. Door-hanger. No. 1,016,438; Feb. 6; Sp. p. 461; Gaz. vol. 175; p. 70.
Pernice, Nicola, Atlantic City, N. J. Syringe. No. 1,014,608; Jan. 9; Sp. p. 3324; Gaz. vol. 174; p. 551.
Perret, Auguste H., Paris, France. Extracting metals. No. 1,028,774; June 4; Sp. p. 1519; Gaz. vol. 179; p. 236.
Perri, Angelo, Haverhill, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for use in the manufacture of boots and shoes. No. 1,024,019; Apr. 23; Sp. p. 4810; Gaz. vol. 177; p. 855.
Perrin, Frederic S., New York, N. Y. Carbureter. No. 1,044,569; Nov. 19; Gaz. vol. 184; p. 591.
Perrin, Frederick J., Walworth, Wis. Composing-stick. No. 1,023,958; Apr. 23; Sp. p. 4701; Gaz. vol. 177; p. 834.
Perrin, John A., Fargo, Okla. Incubator heater-tank. No. 1,041,508; Oct. 15; Gaz. vol. 183; p. 685.
Perrin, John G., Plattsburg, N. Y. Steering-post switch. No. 1,030,124; June 18; Sp. p. 4467; Gaz. vol. 179; p. 772.
Perrine, George H., New York, N. Y., assignor to Scovill Manufacturing Company, Waterbury, Conn. Buckle. No. 1,045,174; Nov. 26; Gaz. vol. 184; p. 830.
Perrine, George L., St. Johns, Oreg. Fireplace. No. 1,049,262; Dec. 31; Gaz. vol. 185; p. 1333.
Perrine, John R., assignor to The Cincinnati Lathe & Tool Company, Cincinnati, Ohio. Feed-gearing. No. 1,019,914; Mar. 12; Sp. p. 1949; Gaz. vol. 176; p. 338.
Perrine, John R., assignor to The Cincinnati Lathe & Tool Company, Cincinnati, Ohio. Feed-gearing. No. 1,029,313; June 11; Sp. p. 2695; Gaz. vol. 179; p. 457.
Perron, Joseph L., *et al.* (See Gagnon, Edmond, assignor.)
Perrone, Louisa, administratrix. (See Perrone, Sebastian.)
Perrone, Sebastian, deceased; L. Perrone, administratrix, New York, N. Y. Hair-cutter. No. 1,023,786; Apr. 16; Sp. p. 4252; Gaz. vol. 177; p. 747.
Perrot, Emile G., Philadelphia, Pa. Life-boat-launching apparatus. No. 1,035,464; Aug. 13; Gaz. vol. 181; p. 390.
Perry, Abel L. P., Roanoke, Va. Hose-clamp. No. 1,036,324; Aug. 20; Gaz. vol. 181; p. 723.
Perry, Alfred H., assignor of twenty one-hundredths to M. E. Scorce, twenty one-hundredths to M. A. Rego, twenty one-hundredths to M. Agrella, San Leandro, ten one-hundredths to F. Ramos, and ten one-hundredths to M. F. Ramos, Hayward, Cal. Hay-press. No. 1,015,207; Jan. 16; Sp. p. 4661; Gaz. vol. 174; p. 787.
Perry, Amos A., Pearcy, Ark. Garden-tool. No. 1,043,459; Nov. 5; Gaz. vol. 184; p. 148.
Perry, Benjamin F., Elwood, Ind. Folding caster. No. 1,033,267; July 23; Gaz. vol. 180; p. 954.
Perry, Charles L., Ebenezer, N. Y. Concealed car-door lock. No. 1,036,325; Aug. 20; Gaz. vol. 181; p. 723.
Perry, Charles S., St. Elmo, Tenn. Shingle-fastener. No. 1,031,368; July 2; Gaz. vol. 180; p. 182.
Perry, Earle S., Waltham, Mass., assignor to Keystone Watch Case Company. Watch. No. 1,013,896; Jan. 9; Sp. p. 1801; Gaz. vol. 174; p. 309.
Perry, Edward C., assignor to American Car Sprinkler Co., Worcester, Mass. Car-sprinkler tank. No. 1,040,401; Oct. 8; Gaz. vol. 183; p. 275.
Perry, Edward L., Jr., Paterson, N. J. Washer for glass gages, &c. No. 1,038,642; Sept. 17; Gaz. vol. 182; p. 563.
Perry, Eugene L., assignor to American Stopper Company, New York, N. Y. Capping-machine. No. 1,022,591; Apr. 9; Sp. p. 1767; Gaz. vol. 177; p. 311.
Perry, Frederick H., Beverly, Mass. Making clothespins or similar articles. No. 1,020,443; Mar. 19; Sp. p. 3041; Gaz. vol. 176; p. 551.
Perry, Frederick H., Beverly, Mass. Making base-balls. No. 1,048,092; Dec. 24; Gaz. vol. 185; p. 894.
Perry, Frederick H., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Sewing-machine shuttle. No. 1,023,033; Apr. 9; Sp. p. 2715; Gaz. vol. 177; p. 464.
Perry, Frederick H., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Pattern-generating apparatus. No. 1,027,562; May 28; Sp. p. 5422; Gaz. vol. 178; p. 950.
Perry, Frederick H., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Trimming-machine. No. 1,030,605; June 25; Sp. p. 5671; Gaz. vol. 179; p. 982.
Perry, Frederick H., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for operating on shoe-soles. No. 1,030,606; June 25; Sp. p. 5680; Gaz. vol. 179; p. 983.
Perry, Frederick H., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for operating on the soles of shoes. No. 1,030,607; June 25; Sp. p. 5698; Gaz. vol. 179; p. 983.
Perry, Frederick H., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Trimming-machine. No. 1,047,283; Dec. 17; Gaz. vol. 185; p. 586.
Perry, Frederick H., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Trimming-machine. No. 1,047,982; Dec. 24; Gaz. vol. 185; p. 857.
Perry, George E., Chicago, Ill. Centrifugal fan-wheel. No. 1,023,873; Apr. 23; Sp. p. 4494; Gaz. vol. 177; p. 805.
Perry, George R., Chicago, Ill., assignor to Dime-Nailer Company, District of Columbia. Coin-receptacle. No. 1,045,175; Nov. 26; Gaz. vol. 184; p. 830.
Perry, Harry A. (See Svensson and Perry.)
Perry, Henry T. V., assignor to P. C. Murphy Trunk Company, St. Louis, Mo. Trunk-fastener. No. 1,025,923; May 7; Sp. p. 1821; Gaz. vol. 178; p. 281.
Perry, Hubert M., and C. F. Huntoon, Chicago, Ill. Brake-head. No. 1,022,440; Apr. 9; Sp. p. 1455; Gaz. vol. 177; p. 261.
Perry, Jacob D., *et al.* (See Miller, Jeremiah, assignor.)
Perry, John B., Meadowdale, Wash. Undercutting-saw support. No. 1,016,090; Jan. 30; Sp. p. 6597; Gaz. vol. 174; p. 1146.
Perry, Samuel C., London, Ky. Automatic signal system for railways. No. 1,025,018; Apr. 30; Sp. p. 7030; Gaz. vol. 177; p. 1235.
Perry, William, and A. S. Jones, Garden Hill, Wollongong, New South Wales, assignors to The Heli-Cushion Drive Limited, Sydney, Australia. Spring drive or power shaft coupling. No. 1,024,020; Apr. 23; Sp. p. 4814; Gaz. vol. 177; p. 855.
Perry, William M., and A. E. Boozer, Columbia, S. C. Signaling apparatus for hospitals. No. 1,047,560; Dec. 17; Gaz. vol. 185; p. 684.
Persbacker, Edward. (See Persbacker, Walter F. and E.)
Persbacker, Walter F. and E., Dickson City, Pa. Rail-anticreeper and tie-plate. No. 1,044,236; Nov. 12; Gaz. vol. 184; p. 447.
Persohn, Frank A., assignor to Baltimore Optical Company, Baltimore, Md. Eyeglass-mounting. No. 1,030,828; June 25; Sp. p. 6373; Gaz. vol. 179; p. 1064.
Persons, Charles A., Worcester, Mass. Saddle. No. 1,016,031; Jan. 30; Sp. p. 6460; Gaz. vol. 174; p. 1124.
Persons, Charles A., assignor to Standard Specialty Company, Worcester, Mass. Saddle. No. 1,046,636; Dec. 10; Gaz. vol. 185; p. 331.
Persons, James O., Norfolk, Va. Apparatus for lining pipes. No. 1,016,770; Feb. 6; Sp. p. 1210; Gaz. vol. 175; p. 186.
Persson, Jess P., Jersey City, N. J. Freight-car door. No. 1,025,301; May 7; Sp. p. 419; Gaz. vol. 178; p. 68.
Peru Electric Company. (See Fletcher, Olive L., assignor.)
Peryman, John W., *et al.* (See Thomas, Martin E., assignor.)
Peschel, Otto. (See Gräf and Peschel.)
Pesek, Joseph, Schuyler, Nebr. Autogun attachment. No. 1,043,717; Nov. 5; Gaz. vol. 184; p. 237.
Petaluma Incubator Co. (See Byce, Lyman C., assignor.)
Petchuck, William E., Mahanoy City, Pa. Vegetable slicer and grater. No. 1,017,586; Feb. 13; Sp. p. 2962; Gaz. vol. 175; p. 500.
Peter Gray & Sons. (See Briand, Charles C., assignor.)

Alphabetical list of patentees—Continued.

Peter, Silas B. (See Frank and Peter.)
Peter Smith Heater Company. (See Smith, Elmer J., assignor.)
Peters, Charles. (See Karminski and Peters.)
Peters, Daniel M., Bellwood, Pa. Guard for jointers. No. 1,046,637; Dec. 10; Gaz. vol. 185; p. 331.
Peters, Frank M., Chicago, Ill. Wafer-cutting machine. No. 1,016,439; Feb. 6; Sp. p. 464; Gaz. vol. 175; p. 71.
Peters, Frank M., Chicago, Ill. Machine for setting up cartons and the like. No. 1,025,880; May 7; Sp. p. 1714; Gaz. vol. 178; p. 266.
Peters, Frank M., and H. H. Hungerford, Chicago, Ill.; said Hungerford assignor to said Peters. Machine for wrapping packages. No. 1,043,863; Nov. 12; Gaz. vol. 184; p. 318.
Peters, Gershom M., Cincinnati, Ohio. Safety-powder for blasting. No. 1,048,578; Dec. 31; Gaz. vol. 185; p. 1096.
Peters, H. A. (See Doner, Martin J., assignor.)
Peters, Heber C., Indianapolis, Ind., assignor, by mesne assignments, to Burroughs Adding Machine Company, Detroit, Mich. Calculating-machine. No. 1,028,133; June 4; Sp. p. 90; Gaz. vol. 179; p. 18.
Peters, Heber C., Indianapolis, Ind., assignor to Burroughs Adding Machine Company, Detroit, Mich. Adding-machine. No. 1,048,093; Dec. 24; Gaz. vol. 185; p. 895.
Peters, Holiday D., Sioux Falls, S. D. Headlight-operating device. No. 1,037,047; Aug. 27; Gaz. vol. 181; p. 999.
Peters, Jeremiah L., Allentown, Pa. Hobby-horse and high chair. No. 1,025,422; May 7; Sp. p. 690; Gaz. vol. 178; p. 109.
Peters, John. (See Wegner and Peters.)
Peters, John S. (See Washabaugh and Peters.)
Peters, Milton C., Omaha, Nebr. Rotary cutter. No. 1,013,611; Jan. 2; Sp. p. 1126; Gaz. vol. 174; p. 180.
Peters, Milton C., Omaha, Nebr. Mixing apparatus. No. 1,013,612; Jan. 2; Sp. p. 1129; Gaz. vol. 174; p. 181.
Peters, Milton C., Omaha, Nebr. Reducing-mill. No. 1,015,246; Jan. 16; Sp. p. 4740; Gaz. vol. 174; p. 799.
Peters, Roy A., Stockton, Ill. Pole and post hole digger. No. 1,032,936; July 16; Gaz. vol. 180; p. 801.
Peters, Stanley C., Bridgeport, Wash. Composition of matter. No. 1,035,729; Aug. 13; Gaz. vol. 181; p. 479.
Peters, William A. (See Burke and Peters.)
Peters, William A., Johnstown, Pa. Roll-holder for photographic cameras. No. 1,031,023; July 2; Gaz. vol. 180; p. 61.
Petersen, Adolf J., Berlin, assignor to Holstein & Kappert, Maschinenfabrik Phonix, G. m. b. H., Dortmund, Germany. Supporting and feed mechanism for bottling and analogous machines. No. 1,032,157; July 9; Gaz. vol. 180; p. 492.
Petersen, Anker, Winthrop, assignor to Boston Machinery Company, Boston, Mass. Rotary braiding-machine. No. 1,046,107; Dec. 3; Gaz. vol. 185; p. 106.
Petersen, Anker, Winthrop, assignor to Boston Machinery Company, Boston, Mass. Shuttle-checking device for looms. No. 1,013,217; Jan. 2; Sp. p. 279; Gaz. vol. 174; p. 45.
Petersen, Anker, assignor to Boston Machinery Company, Boston, Mass. Thread-carrier. No. 1,043,788; Nov. 5; Gaz. vol. 184; p. 260.
Petersen, Axel, New York, N. Y. Valve-spring compressor. No. 1,046,638; Dec. 10; Gaz. vol. 185; p. 331.
Petersen, Charles, Corvallis, Oreg. Metal collapsible chicken-coop. No. 1,047,561; Dec. 17; Gaz. vol. 185; p. 685.
Petersen, Frederick C., Lindsay, Nebr. Gambrel-stick. No. 1,020,843; Mar. 19; Sp. p. 3914; Gaz. vol. 176; p. 684.
Petersen, Hans, assignor to The Linograph Manufacturing Company, Minneapolis, Minn. Ejector-blade for linotype-machines. No. 1,025,993; May 14; Sp. p. 1971; Gaz. vol. 178; p. 339.
Petersen, Hans, assignor to The Linograph Manufacturing Company, Minneapolis, Minn. Matrix for linotype-machines. No. 1,028,955; June 11; Sp. p. 1925; Gaz. vol. 179; p. 332.
Petersen, Hans, assignor to The Linograph Manufacturing Company, Minneapolis, Minn. Linotype-mold. No. 1,030,678; June 25; Sp. p. 5902; Gaz. vol. 179; p. 1008.
Petersen, John P. (See Kohloff, Paul W., assignor.)
Petersen, Oscar E., Des Moines, Iowa. Dirigible reflector and burner. No. 1,045,608; Nov. 26; Gaz. vol. 184; p. 984.
Petersen, Otto A. A., New Orleans, La. Endless-belt propeller. No. 1,014,512; Jan. 9; Sp. p. 3121; Gaz. vol. 174; p. 519.
Petersen, Peter H. (See Moreland, Frank T., assignor.)
Petersen & Son, G. C. (See Holmes, Nathan L., assignor.)
Petersen, Thorvald. (See Gjorup and Petersen.)
Petersen, William, Lyons, Iowa. Door-latch. No. 1,042,140; Oct. 22; Gaz. vol. 183; p. 934.
Peterson, Albert C., Sheboygan, Wis. Pad-machine. No. 1,021,068; Mar. 26; Sp. p. 4375; Gaz. vol. 176; p. 812.
Peterson, Alfred, Independence, Mo. Rotary motor. No. 1,026,120; May 14; Sp. p. 2281; Gaz. vol. 178; p. 385.
Peterson, Alfred, Independence, Mo. Locomotive. No. 1,035,730; Aug. 13; Gaz. vol. 181; p. 479.
Peterson, Alfred W., Albertville, Wis. Railway-tie. No. 1,029,628; June 18; Sp. p. 3379; Gaz. vol. 179; p. 602.
Peterson, Andrew, Metaline, Wash. Saw-clamp. No. 1,028,775; June 4; Sp. p. 1522; Gaz. vol. 179; p. 237.
Peterson, Burt A., assignor, by mesne assignments, to Barber-Colman Company, Rockford, Ill. Pattern-controlled means for distributing heddles or the like. No. 1,019,915; Mar. 12; Sp. p. 1951; Gaz. vol. 176; p. 338.
Peterson, Burt A., assignor, by mesne assignments, to Barber-Colman Company, Rockford, Ill. Bobbin-holder. No. 1,045,879; Dec. 3; Gaz. vol. 185; p. 29.
Peterson, Carl, Portland, Oreg. Tire-chain mechanism. No. 1,021,727; Mar. 26; Sp. p. 5754; Gaz. vol. 176; p. 1033.
Peterson, Charles C., Oil City, Pa. Core-making machine. No. 1,030,326; June 25; Sp. p. 4944; Gaz. vol. 179; p. 882.
Peterson, Charles E., New York, N. Y. Wrench. No. 1,016,578; Feb. 6; Sp. p. 804; Gaz. vol. 175; p. 119.
Peterson, Charles E., Littlestown, Pa. Mowing-machine. No. 1,039,436; Sept. 24; Gaz. vol. 182; p. 852.
Peterson, Charles F., New York, N. Y. Heating-drum. No. 1,037,306; Sept. 3; Gaz. vol. 182; p. 43.
Peterson, Charles J., Chicago, and J. G. McGregor, Oak Park, assignors to The Adams & Westlake Company, Chicago, Ill. Signal lamp or lantern glass holder. No. 1,035,043; Aug. 6; Gaz. vol. 181; p. 213.
Peterson, Christopher, Stockton, Cal. Multiplane. No. 1,043,969; Nov. 12; Gaz. vol. 184; p. 357.
Peterson, Edward M., Leland, Iowa. Swinging straw-stacker. No. 1,022,592; Apr. 9; Sp. p. 1771; Gaz. vol. 177; p. 311.
Peterson, Edwin O., Elgin, Nebr. Hollow-wall-molding system. No. 1,033,461; July 23; Gaz. vol. 180; p. 1017.
Peterson, Emil, Baraga, Mich. Attachment for logways in sawmills. No. 1,023,592; Apr. 16; Sp. p. 3911; Gaz. vol. 177; p. 688.
Peterson, Erick H., assignor to Sartorial Pattern Company of Philadelphia, Philadelphia, Pa. Cloth-cutting machine. No. 1,041,341; Oct. 15; Gaz. vol. 183; p. 630.
Peterson, Ernest, New Haven, Conn. Upholstered furniture. No. 1,024,744; Apr. 30; Sp. p. 6473; Gaz. vol. 177; p. 1114.
Peterson, Frank E., Princeton, Ill. Display-stand. No. 1,035,100; Aug. 6; Gaz. vol. 181; p. 233.
Peterson, Frank E., assignor to F. A. Hardy & Company, Chicago, Ill. Reading-glass. No. 1,044,814; Nov. 19; Gaz. vol. 184; p. 678.
Peterson, Frank H., *et al.* (See Pihl, Nils H. C., assignor.)
Peterson, Franklin P., Grove City, assignor, by mesne assignments, to The American Gasol Company, Pittsburgh, Pa. Condensation of gases or vapors into their liquid forms. No. 1,031,664; July 2; Gaz. vol. 180; p. 283.
Peterson, Frederick R., Espanola, Wash. Lubricator. No. 1,035,465; Aug. 13; Gaz. vol. 181; p. 391.
Peterson, Fredolf J., Salem, Ohio. Railway-tie and fastener. No. 1,034,644; Aug. 6; Gaz. vol. 181; p. 80.
Peterson, Fredolf J., assignor to The American Case & Register Company, Salem, Ohio. Detachable hinge. No. 1,021,885; Apr. 2; Sp. p. 287; Gaz. vol. 177; p. 47.
Peterson, Gustav, Altoona, Pa. Furnace. No. 1,035,731; Aug. 13; Gaz. vol. 181; p. 479.
Peterson, Isaac, Oakland, Cal. Dredging-machine. No. 1,034,501; Aug. 6; Gaz. vol. 181; p. 34.
Peterson, James. (See Roberts and Peterson.)
Peterson, James, American Fork, Utah. Rotary plow. No. 1,030,489; June 25; Sp. p. 5306; Gaz. vol. 179; p. 940.
Peterson, James, Price, Utah. Folding umbrella. No. 1,031,868; July 9; Gaz. vol. 180; p. 397.
Peterson, Johann G., Hartford, Conn. Electric switch. No. 1,032,767; July 16; Gaz. vol. 180; p. 747.
Peterson, Johann G., Hartford, Conn. Electric switch. No. 1,043,718; Nov. 5; Gaz. vol. 184; p. 237.
Peterson, Johann G., assignor to The Arrow Electric Company, Hartford, Conn. Door-switch. No. 1,023,224; Apr. 16; Sp. p. 3175; Gaz. vol. 177; p. 568.
Peterson, John, New York, N. Y. Runaway-stop. No. 1,019,699; Mar. 5; Sp. p. 1501; Gaz. vol. 176; p. 233.
Peterson, John, Faribault, Minn. Music-bench. No. 1,020,777; Mar. 19; Sp. p. 3779; Gaz. vol. 176; p. 662.
Peterson, Karl, Jamestown, N. Y. Sector-cutting saw. No. 1,023,959; Apr. 23; Sp. p. 4702; Gaz. vol. 177; p. 834.
Peterson, Lars M., Bingham Canyon, Utah. Combination-chair. No. 1,028,956; June 11; Sp. p. 1926; Gaz. vol. 179; p. 333.
Peterson, Mack C. (See Wade and Peterson.)
Peterson, Malcolm, assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Valve for door-checks. No. 1,018,265; Feb. 20; Sp. p. 4499; Gaz. vol. 175; p. 773.
Peterson, Ned S., and A. W. Mohrman, Dell Rapids, S. D. Flue-removing tool. No. 1,047,832; Dec. 17; Gaz. vol. 185; p. 779.
Peterson, Nels, Canton, S. D. Coal-dumping device. No. 1,025,833; May 7; Sp. p. 1582; Gaz. vol. 178; p. 251.
Peterson, Olof, St. Paul, Minn. Brake. No. 1,021,474; Mar. 26; Sp. p. 5274; Gaz. vol. 176; p. 951.
Peterson, Oscar W., Ripon, Cal. Agricultural implement. No. 1,048,340; Dec. 24; Gaz. vol. 185; p. 977.

Alphabetical list of patentees—Continued.

Peterson, Peter, San Francisco, Cal. Marine propulsion. No. 1,047,562; Dec. 17; Gaz. vol. 185; p. 685.
Peterson, Peter A., New Hyde Park, N. Y. Hinge. No. 1,019,184; Mar. 5; Sp. p. 394; Gaz. vol. 176; p. 62.
Peterson, Sigfred, Lost Springs, Kans. Plow. No. 1,041,666; Oct. 15; Gaz. vol. 183; p. 737.
Peterson, Sigurd H., Maybell, Colo. Folding camera-case. No. 1,042,963; Oct. 29; Gaz. vol. 183; p. 1244.
Peterson, Thomas, Duluth, Minn. Mop-wringer. No. 1,038,192; Sept. 10; Gaz. vol. 182; p. 372.
Pethybridge, John S., Newton Abbot, England. Cap. No. 1,022,153; Apr. 2; Sp. p. 854; Gaz. vol. 177; p. 135.
Pětický, Josef, Prague, Austria-Hungary. Apparatus for automatically connecting up the subscribers of telephone-exchanges. No. 1,047,833; Dec. 17; Gaz. vol. 185; p. 779.
Petigio, Gaetanno, Wilmington, Del. Semaphore-blade and holder therefor. No. 1,033,462; July 23; Gaz. vol. 180; p. 1017.
Petin, Hector, assignor to Societe dite Etablissements J. J. Carnaud et Forges de Basse-Indre, Paris, France. Machine for dusting tin plates or other metal sheets. No. 1,034,830; Aug. 6; Gaz. vol. 181; p. 145.
Petin, Hector, assignor to Société dite Etablissements J. J. Carnaud, et Forges de Basse-Indre, Paris, France. Machine for scouring tin plates. No. 1,035,044; Aug. 6; Gaz. vol. 181; p. 214.
Petravic, Julius von, Vienna, Austria-Hungary. Sighting device for use on ships. No. 1,032,022; July 9; Gaz. vol. 180; p. 448.
Petrello, Joseph, Philadelphia, Pa. Pulley. No. 1,022,869; Apr. 9; Sp. p. 2385; Gaz. vol. 177; p. 407.
Petri, George S., Nashville, Tenn. Card-holder. No. 1,040,749; Oct. 8; Gaz. vol. 183; p. 398.
Petri, John, assignor of one-half to L. A. Hansen, Liberty, Minn. Rail-joint. No. 1,014,513; Jan. 9; Sp. p. 3122; Gaz. vol. 174; p. 519.
Petrie, Charles A., St. John's, Newfoundland. Davit-hook. No. 1,043,625; Nov. 5; Gaz. vol. 184; p. 206.
Petrie, James J., Palisades, Colo. Water-distributer. No. 1,041,509; Oct. 15; Gaz. vol. 183; p. 685.
Petrie, Walter A., and C. D. Stratton, Clinton, N. Y. Bed or table for steam pressing-machines. No. 1,031,960; July 9; Gaz. vol. 180; p. 428.
Petrolithic Pavement Company. (See Gillette, Walter A., assignor.)
Petrucci, Albert E., New York, N. Y. Aeroplane. No. 1,037,657; Sept. 3; Gaz. vol. 182; p. 161.
Petry, Rudolph, New Orleans, La. Drip-coffee pot. No. 1,018,337; Feb. 20; Sp. p. 4633; Gaz. vol. 175; p. 796.
Petsche, Gustav B., assignor to Southwark Foundry and Machine Company, Philadelphia, Pa. Corliss valve-gear. No. 1,017,687; Feb. 20; Sp. p. 3170; Gaz. vol. 175; p. 571.
Petsche, Gustav B., assignor to Southwark Foundry and Machine Company, Philadelphia, Pa. Condenser. No. 1,036,698; Aug. 27; Gaz. vol. 181; p. 883.
Petschel, William, Winnipeg, Manitoba, Canada. Battery. No. 1,045,880; Dec. 3; Gaz. vol. 185; p. 29.
Pettengill, George M., Haverhill, Mass., assignor to Haverhill Shoe Machinery Company. Heel-nailing machine. No. 1,042,374; Oct. 22; Gaz. vol. 183; p. 1011.
Pettenkofer, Adolph, New York, N. Y. Making kinetoscope-belts. No. 1,048,427; Dec. 24; Gaz. vol. 185; p. 1005.
Petter, Adolph J., Los Angeles, Cal. Bathing apparatus. No. 1,040,238; Oct. 1; Gaz. vol. 183; p. 189.
Petterson, August, St. Cloud, Minn. Door-lock. No. 1,018,077; Feb. 20; Sp. p. 4111; Gaz. vol. 175; p. 708.
Pettersson, Erik W., assignor of one-half to G. E. Callmander, Brooklyn, N. Y. Bedstead. No. 1,017,793; Feb. 20; Sp. p. 3456; Gaz. vol. 175; p. 608.
Pettibone, Arthur D., Cleveland, assignor to The B. L. Marble Chair Company, Bedford, Ohio. Base for revolving office-chairs. No. 1,013,813; Jan. 2; Sp. p. 1577; Gaz. vol. 174; p. 251.
Pettibone, Hawley, New Rochelle, and B. von Sholly, Flushing, N. Y. Manufacturing nitrogen compounds. No. 1,042,141; Oct. 22; Gaz. vol. 183; p. 934.
Pettiford, John R., assignor to C. E. Gaffney, St. Louis, Mo. Vacuum cleaning system. No. 1,025,994; May 14; Sp. p. 1973; Gaz. vol. 178; p. 340.
Pettijohn, Joseph E., and L. D. Stafford, Parsons, Kans. Adjustable window shade and curtain support. No. 1,045,881; Dec. 3; Gaz. vol. 185; p. 29.
Pettingell Machine Co. (See Knights, George L., assignor.)
Pettingill, Ubert K. (See Harrison, Arthur W., assignor.)
Pettit, Benjamin F. (See Hanford, George S., assignor.)
Pettit, Charles C., Greenford, Ohio. Brick pavement. No. 1,032,858; July 16; Gaz. vol. 180; p. 777.
Pettit, Lee, Cleburne, Tex. Scraper. No. 1,018,518; Feb. 27; Sp. p. 5109; Gaz. vol. 175; p. 891.
Pettit, Morgan, Connersville, Ind. Child's vehicle. No. 1,022,698; Apr. 9; Sp. p. 2016; Gaz. vol. 177; p. 349.
Pettitt, Nancy E., Junction, Tex. Envelop-seal. No. 1,023,034; Apr. 9; Sp. p. 2717; Gaz. vol. 177; p. 464.
Petz, Egnaz, assignor of one-third to F. J. Kurrus and one-third to C. G. Kurrus, East St. Louis, Ill. Bottle-cleaning device. No. 1,020,510; Mar. 19; Sp. p. 3179; Gaz. vol. 176; p. 571.
Petzold, Charles G., Providence, R. I. Loom-shuttle. No. 1,036,699; Aug. 27; Gaz. vol. 181; p. 883.
Petzold, Charles G., Providence, R. I. Loom-shuttle. No. 1,037,048; Aug. 27; Gaz. vol. 181; p. 999.
Petzold, Max. (See Krais, Paul, assignor.)
Peuble, Gabriel, St. Étienne, France. Electric ignition device for small-arms. No. 1,043,719; Nov. 5; Gaz. vol. 184; p. 237.
Peuckert, Hugo. Oederan, Germany. Web-cutting mechanism. No. 1,040,006; Oct. 1; Gaz. vol. 183; p. 111.
Peufaillit, Louis, Tunis, Tunis. Retting vegetable fibers. No. 1,034,502; Aug. 6; Gaz. vol. 181; p. 34.
Peugh, William G., Aberdeen, Miss. Display-rack. No. 1,020,114; Mar. 12; Sp. p. 2364; Gaz. vol. 176; p. 404.
Pezzuto, Peter, Curwensville, Pa. Miner's lamp. No. 1,048,870; Dec. 31; Gaz. vol. 185; p. 1199.
Pfaff, Frank J., *et al.* (See Braun, Henry, assignor.)
Pfahl, Frederick L., Akron, Ohio. Indicator for liquid-containers. No. 1,013,309; Jan. 2; Sp. p. 495; Gaz. vol. 174; p. 78.
Pfannenschmidt, Frederick A., assignor of one-half to W. R. Macadam, Detroit, Mich. Warning-signal for street-cars. No. 1,034,730; Aug. 6; Gaz. vol. 181; p. 110.
Pfanstiehl, Carl A., Highland Park, Ill. Circuit-breaker for magneto-electric machines. No. 1,017,794; Feb. 20; Sp. p. 3457; Gaz. vol. 175; p. 608.
Pfanstiehl, Carl A., Highland Park, Ill. Combined circuit breaker and distributer. No. 1,036,700; Aug. 27; Gaz. vol. 181; p. 884.
Pfarrhofer, Joseph, Chicago, Ill. Music-sheet-turning device. No. 1,028,270; June 4; Sp. p. 455; Gaz. vol. 179; p. 66.
Pfatischer, Mathias, Bayonne, N. J. Commutator. No. 1,014,253; Jan. 9; Sp. p. 2594; Gaz. vol. 174; p. 433.
Pfau, Arnold, assignor to Allis-Chalmers Company, Milwaukee, Wis. Hydraulic turbine. No. 1,023,585; Apr. 16; Sp. p. 3895; Gaz. vol. 177; p. 685.
Pfau, Charles, Cincinnati, assignor to The Pfau Manufacturing Company, Norwood, Ohio. Combined connecting-brace, shield, and buffer-holder for water-closet seats. No. 1,041,342; Oct. 15; Gaz. vol. 183; p. 630.
Pfau Manufacturing Company, The. (See Pfau, Charles, assignor.)
Pfau, Max, assignor to The Emerson Typewriter Co., Woodstock, Ill. Type-writer escapement-clutch. No. 1,016,172; Jan. 30; Sp. p. 6737; Gaz. vol. 174; p. 1171.
Pfau, Max, assignor to Emerson Typewriter Co., Woodstock, Ill. Type. No. 1,018,985; Feb. 27; Sp. p. 6113; Gaz. vol. 175; p. 1050.
Pfau, Max, assignor to The Emerson Typewriter Co., Woodstock, Ill. Type-bar mounting. No. 1,018,986; Feb. 27; Sp. p. 6115; Gaz. vol. 175; p. 1050.
Pfau, Max, assignor to Emerson Typewriter Company, Woodstock, Ill. Type-writer key-lock. No. 1,021,627; Mar. 26; Sp. p. 5569; Gaz. vol. 176; p. 1000.
Pfau, Max, assignor to The Emerson Typewriter Co., Woodstock, Ill. Type-writer centering mechanism. No. 1,026,601; May 14; Sp. p. 3297; Gaz. vol. 178; p. 545.
Pfau, Max, assignor to The Emerson Typewriter Co., Woodstock, Ill. Type-forming machine. No. 1,037,169; Aug. 27; Gaz. vol. 181; p. 1039.
Pfautz, Daniel M., assignor to W. P. Tigerman, Philadelphia, Pa. Water-filter. No. 1,013,435; Jan. 2; Sp. p. 761; Gaz. vol. 174; p. 120.
Pfeffer, William, Jr., Jersey City, N. J. Electric pull-socket switch. No. 1,036,326; Aug. 20; Gaz. vol. 181; p. 724.
Pfefferkorn, William L., A. P. Schloerb, and A. H. Hammetter, Milwaukee, Wis. Pedestal extension-table. No. 1,017,062; Feb. 13; Sp. p. 1848; Gaz. vol. 175; p. 320.
Pfeifer, Emil, Mascoutah, Ill. Mold. No. 1,024,357; Apr. 23; Sp. p. 5538; Gaz. vol. 177; p. 971.
Pfeiffer, Adolph, New York, N. Y. Mechanism for operating toy derricks. No. 1,038,949; Sept. 17; Gaz. vol. 182; p. 670.
Pfeiffer, Otto, Cassel, Germany. Type-writing machine. No. 1,024,745; Apr. 30; Sp. p. 6475; Gaz. vol. 177; p. 1114.
Pfeifler, John W., *et al.* (See Pickett, John B., assignor.)
Pfeil, Christian P., Nuremberg, Germany. Apparatus for actuating toy vehicles and the like. No. 1,022,258; Apr. 2; Sp. p. 1067; Gaz. vol. 177; p. 170.
Pfeil, Olga A. (See Kuenholdt, Charles, assignor.)
Pfeil, Philip, assignor to A. J. Lindemann & Hoverson Co., Milwaukee, Wis. Sad-iron. No. 1,015,742; Jan. 23; Sp. p. 5844; Gaz. vol. 174; p. 996.
Pfenning, Henry M., New Salem, N. D. Washstick. No. 1,034,731; Aug. 6; Gaz. vol. 181; p. 110.
Pfenninger, John J., St. Louis, Mo. Machine for dividing dough and the like. No. 1,039,795; Oct. 1; Gaz. vol. 183; p. 43.
Pfister & Vogel Leather Co. (See Bossert, Charles P., assignor.)
Pfisterer, Eduard. (See Turek, Anton, assignor.)
Pflager, Harry M. (See Frede and Pflager.)
Pflager, Harry M. (See Howard and Pflager.)
Pflager, Harry M., St. Louis, Mo. Car construction. No. 1,021,207; Mar. 26; Sp. p. 4667; Gaz. vol. 176; p. 856.

Alphabetical list of patentees—Continued.

Pflager, Harry M., assignor to Transom Draft Gear Company, St. Louis, Mo. Car-underframe. No. 1,021,375; Mar. 26; Sp. p. 5009; Gaz. vol. 176; p. 914.
Pflager, Harry M., assignor to Double Body Bolster Company, St. Louis, Mo. Car-truck. No. 1,032,500; July 16; Gaz. vol. 180; p. 654.
Pflager, Harry M., assignor to Double Body Bolster Company, St. Louis, Mo. Side-sill bracket. No. 1,047,834; Dec. 17; Gaz. vol. 185; p. 780.
Pflager, Harry M., assignor to Double Body Bolster Company, St. Louis, Mo. Car end frame. No. 1,048,428; Dec. 24; Gaz. vol. 185; p. 1006.
Pflager, Harry M., assignor to Double Body Bolster Company, St. Louis, Mo. Car end frame. No. 1,048,997; Dec. 31; Gaz. vol. 185; p. 1242.
Pflager, Harry M., assignor to Double Body Bolster Company, St. Louis, Mo. Car end frame. No. 1,048,998; Dec. 31; Gaz. vol. 185; p. 1243.
Pflager, Harry M., assignor to The Locomotive Tender Frame Company, St. Louis, Mo. Locomotive-tender underframe. No. 1,047,442; Dec. 17; Gaz. vol. 185; p. 640.
Pflaumer, George T., Philadelphia, Pa. Brake. No. 1,042,598; Oct. 29; Gaz. vol. 183; p. 1119.
Pflaumm, Albert V., Tonasket, Wash. Water elevating and impelling apparatus. No. 1,042,599; Oct. 29; Gaz. vol. 183; p. 1119.
Pfleegor, John L., Milton, Pa. Bolt-latch. No. 1,033,118; July 23; Gaz. vol. 180; p. 902.
Pfleghar, Frank P., assignor to The English & Mersick Co., New Haven, Conn. Wind-shield holder. No. 1,026,365; May 14; Sp. p. 2827; Gaz. vol. 178; p. 468.
Pfleumer, Fritz, Dresden, Germany. Manufacturing hot vulcanized froth from india-rubber, gutta-percha, and balata. No. 1,038,950; Sept. 17; Gaz. vol. 182; p. 670.
Pflugbeil & Co., Carl. (See Strumpf, Hermann, assignor.)
Pfluger, Frank X., Portland, Oreg. Bush-flanger. No. 1,014,902; Jan. 16; Sp. p. 4041; Gaz. vol. 174; p. 683.
Pforr, Philipp, Berlin, Germany, assignor to General Electric Company. System of suspension. No. 1,035,045; Aug. 6; Gaz. vol. 181; p. 214.
Pfoutz, Arthur P. (See Bennett, Lincoln, assignor.)
Pfund, Ernst F., Leipzig-Eutritzsch, Germany. Ironing-board. No. 1,016,288; Feb. 6; Sp. p. 116; Gaz. vol. 175; p. 19.
Pfunder, Emil L., Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 1,042,033; Oct. 22; Gaz. vol. 183; p. 900.
Pfustler, Frank, Chicago, Ill. Nose-clamp for horses. No. 1,047,284; Dec. 17; Gaz. vol. 185; p. 587.
Pharand, Josaphat. (See Nolan and Pharand.)
Phare, John J. (See Basset, Clay, and Phare.)
Phare, John J., and M. F. Clay, assignors to The No-Mar Manufacturing Company, Cleveland, Ohio. Sanitary mop. No. 1,028,062; May 28; Sp. p. 6516; Gaz. vol. 178; p. 1114.
Pharis, Mott R. (See Keene and Pharis.)
Pharr, Walter, Metcalf, Ariz. Safety device for ink-bottles. No. 1,034,295; July 30; Gaz. vol. 180; p. 1329.
Phelan, Edmund, Guadalajara, Mexico. Truss. No. 1,047,116; Dec. 10; Gaz. vol. 185; p. 494.
Phelan, John M., Jackson, Mich. Sectional sewer-pipe. No. 1,047,983; Dec. 24; Gaz. vol. 185; p. 857.
Phelps, Bailie T., Natchitoches, La. Adjustable book-support. No. 1,014,974; Jan. 16; Sp. p. 4213; Gaz. vol. 174; p. 709.
Phelps, Frank. (See Mackenzie, Alexander S., assignor.)
Phelps, Frank, Little Rock, Ark. Cotton-compress. No. 1,038,430; Sept. 10; Gaz. vol. 182; p. 455.
Phelps, Frank, Wellston, Okla., assignor to Thomas Gin Compress Company, Little Rock, Ark. Cotton-gin. No. 1,022,259; Apr. 2; Sp. p. 1069; Gaz. vol. 177; p. 170.
Phelps, Henry W., Yonkers, assignor to American Can Company, New York, N. Y. Can-nozzle seal. No. 1,022,045; Apr. 2; Sp. p. 628; Gaz. vol. 177; p. 99.
Phelps, Homer L., assignor to The Auburn Wagon Company, Martinsburg, W. Va. Dumping-wagon. No. 1,017,016; Feb. 13; Sp. p. 1742; Gaz. vol. 175; p. 304.
Phelps, James A., Cleveland, Ohio. Die-stock. No. 1,036,001; Aug. 20; Gaz. vol. 181; p. 607.
Phelps, James E., New Preston, Conn. Dust-apron for horse-mowers. No. 1,033,731; July 23; Gaz. vol. 180; p. 1105.
Phelps, James W., Detroit, Mich. Plug-socket. No. 1,028,957; June 11; Sp. p. 1928; Gaz. vol. 179; p. 333.
Phelps, John C., Pownal, Vt. Body-protector. No. 1,021,376; Mar. 26; Sp. p. 5011; Gaz. vol. 176; p. 915.
Phelps, L. D., *et al.* (See Ping, Robert G., assignor.)
Phelps, Lewis H., Westfield, N. J. Regulator for fluid-heating systems. No. 1,047,443; Dec. 17; Gaz. vol. 185; p. 641.
Phelps, W. Darwin, administrator. (See Kelly, Eugene H.)
Phelps, Walter H., *et al.* (See Smith, Winfield S., assignor.)
Phelps, Walter J., Baltimore, Md., assignor of one-half to F. Gebbie, Rochester, N. Y. Can-filling apparatus. No. 1,025,717; May 7; Sp. p. 1346; Gaz. vol. 178; p. 209.
Phelps, Walter J., Baltimore, Md., assignor of one-half to F. Gebbie, Rochester, N. Y. Can-filling apparatus. No. 1,032,768; July 16; Gaz. vol. 180; p. 747.
Phelps, Walter J., Baltimore, Md., assignor of one-half to F. Gebbie, Rochester, N. Y. Can-filling apparatus. No. 1,034,503; Aug. 6; Gaz. vol. 181; p. 35.
Phenix Tube Company. (See Koenig, Robert, assignor.)
Phifer, James S., Allentown, Pa., assignor to The American Steel and Wire Company of New Jersey, Hoboken, N. J. Nail-packing machine. No. 1,047,984; Dec. 24; Gaz. vol. 185; p. 858.
Philadelphia Drying Machinery Company, The. (See Allsop and Sibson, assignors.)
Philadelphia Drying Machinery Company, The. (See Sibson and Allsop, assignors.)
Philadelphia Electrical and Manufacturing Company. (See Bundy, Clinton L., assignor.)
Philadelphia Metallic Bed Company. (See Irelan, Alfred E., assignor.)
Philadelphia Pipe Bending Company, The. (See Schneider, Leopold C., assignor.)
Philadelphia Textile Machinery Company, The. (See Ayres, Elwood B., assignor.)
Philadelphia Textile Machinery Company, The. (See Coulston, Harry, assignor.)
Philadelphia Textile Machinery Company. (See Gee, Albert, assignor.)
Philadelphia Textile Machinery Company. (See Schwartz and Ayres, assignors.)
Philip Carey Manufacturing Company, The. (See Crabbs, George D., assignor.)
Philip Carey Manufacturing Company, The. (See Moeller, William J., assignor.)
Philip Carey Manufacturing Company, The. (See Smiley, John J., assignor.)
Philipp, Herbert, Perth Amboy, N. J., assignor to The Roessler & Hasslacher Chemical Co., New York, N. Y. Generating gas. No. 1,041,865; Oct. 22; Gaz. vol. 183; p. 843.
Philippine Hemp Machine Company. (See Wilson, Roy A., assignor.)
Philipps, August, assignor to Frankfurter Musikwerke-Fabrik J. D. Philipps & Söhne Akt. Ges., Frankfort-on-the-Main, Germany. Piano-violin. No. 1,038,643; Sept. 17; Gaz. vol. 182; p. 563.
Philipps, August and O., Frankfort-on-the-Main, Bockenheim, Germany. Tracker-board. No. 1,038,193; Sept. 10; Gaz. vol. 182; p. 373.
Philipps, John, Toledo, Ohio. Water-cooling ice-tray for refrigerators. No. 1,022,565; Apr. 9; Sp. p. 1712; Gaz. vol. 177; p. 302.
Philipps, Oswald. (See Philipps, August and O.)
Philippsen, Asmus, Bridgeport, Conn. Igniting device. No. 1,044,815; Nov. 19; Gaz. vol. 184; p. 678.
Philips, Roland L., *et al.* (See Jackson, Orin V., assignor.)
Philips, Smith F., El Paso, Tex. Switch-stand. No. 1,044,237; Nov. 12; Gaz. vol. 184; p. 447.
Phillip, George W., Canton, N. C., assignor to Murphy Iron Works, Detroit, Mich. Automatic stoker. No. 1,019,082; Mar. 5; Sp. p. 161; Gaz. vol. 176; p. 27.
Phillippar, Fernan N., and P. J. Desselle, Weir, Kans. Container. No. 1,026,453; May 14; Sp. p. 3015; Gaz. vol. 178; p. 497.
Phillips, Alfred D., *et al.* (See Phillips, William R., assignor.)
Phillips, Arthur G., Foss, Okla. Wire-stretcher. No. 1,023,394; Apr. 16; Sp. p. 3512; Gaz. vol. 177; p. 625.
Phillips, Benjamin. (See Winkley and Phillips.)
Phillips, Charles H., Poughkeepsie, N. Y. Apparatus for deodorizing the exhaust-gases of motors. No. 1,017,900; Feb. 20; Sp. p. 3720; Gaz. vol. 175; p. 647.
Phillips, Charles P., and L. S. Barger, McGehee, Ark. Feed-water regulator. No. 1,037,980; Sept. 10; Gaz. vol. 182; p. 304.
Phillips, Daniel, Duquesne, Pa. Metallic tie and rail-fastener. No. 1,034,296; July 30; Gaz. vol. 180; p. 1329.
Phillips, Eli W., assignor to American Tool and Machine Company, Boston, Mass. Steam-engine. No. 1,036,701; Aug. 27; Gaz. vol. 181; p. 884.
Phillips, Frank R., Pittsburgh, Pa. Brake-handle. No. 1,025,718; May 7; Sp. p. 1351; Gaz. vol. 178; p. 210.
Phillips, Fred E., Sioux Falls, S. D. Photographic-printing frame. No. 1,031,961; July 9; Gaz. vol. 180; p. 428.
Phillips, George S. (See McCotter, Charles R., assignor.)
Phillips, Harry. (See Phillips, Wesley, assignor.)
Phillips, Homer W. (See Baker, Hinson, and Phillips.)
Phillips, James D., and C. Hambuechen, Madison, Wis., assignors to Ramsay-Vance Sales Company. Apparatus for cleaning metal articles. No. 1,035,633; Aug. 13; Gaz. vol. 181; p. 447.
Phillips, Jesse L., Chicago, Ill. Chimney top or ventilator. No. 1,028,958; June 11; Sp. p. 1930; Gaz. vol. 179; p. 333.
Phillips, John E., and S. T. Park, Danville, assignors to Locomotive Recording Dynamometer Company, Chicago, Ill. Locomotive-dynamometer. No. 1,047,696; Dec. 17; Gaz. vol. 185; p. 733.
Phillips, Lewis O. (See Stevenson and Phillips.)
Phillips, Marshall, and W. P. Lytle, Crofton, Nebr. Sleigh-runner attachment for wagons. No. 1,045,739; Nov. 26; Gaz. vol. 184; p. 1030.
Phillips, Mary J. (See Farr, Eugene M., assignor.)

Alphabetical list of patentees—Continued.

Phillips Mine and Mill Supply Co. (See McCloskey, Louis J., assignor.)
Phillips Mine and Mill Supply Co. (See Phillips and McCloskey, assignors.)
Phillips, Robert F., and L. J. McCloskey, Carrick borough, assignors to Phillips Mine and Mill Supply Co., Pittsburgh, Pa. Mine-car wheel. No. 1,026,454; May 14; Sp. p. 3016; Gaz. vol. 178; p. 497.
Phillips, Ross M. G., Minneapolis, Minn., assignor, by mesne assignments, to H. Deutsch, trustee. Terminal for igniters. No. 1,036,143; Aug. 20; Gaz. vol. 181; p. 660.
Phillips, Ross M. G., assignor to Ideal Rock Crusher & Manufacturing Company, Minneapolis, Minn. Rock-crusher. No. 1,047,835; Dec. 17; Gaz. vol. 185; p. 780.
Phillips, Samuel L., Denver, Colo. Street-sign. No. 1,041,866; Oct. 22; Gaz. vol. 183; p. 843.
Phillips, Thomas E. R., Liverpool, England. Electric automusical instrument. No. 1,020,155; Mar. 12; Sp. p. 2446; Gaz. vol. 176; p. 416.
Phillips, Thomas E. R., Liverpool, England. Aerial vessel. No. 1,043,538; Nov. 5; Gaz. vol. 184; p. 177.
Phillips, Virgil W., assignor, by mesne assignments, to Angsten-Koch Company, Chicago, Ill. Cycle-seat or the like. No. 1,036,702; Aug. 27; Gaz. vol. 181; p. 884.
Phillips, Wesley, Cape May, N. J., assignor, by mesne assignments, of one-half to H. Phillips, Greenwich, Conn. Wheel. No. 1,019,832; Mar. 12; Sp. p. 1758; Gaz. vol. 176; p. 308.
Phillips, William, Chicago, Ill. Flying-machine. No. 1,046,219; Dec. 3; Gaz. vol. 185; p. 145.
Phillips, William A., assignor to Nitrogen Limited, London, England. Obtaining oxids of nitrogen. No. 1,035,732; Aug. 13; Gaz. vol. 181; p. 480.
Phillips, William E., Cleveland, Ohio. Milk-bottle holder. No. 1,020,844; Mar. 19; Sp. p. 3915; Gaz. vol. 176; p. 684.
Phillips, William R., Crafton, assignor of one-third to A. D. Phillips, Cincinnati, Ohio, and one-third to J. L. Adams, Coraopolis, Pa. Store-front and show-case construction. No. 1,045,740; Nov. 26; Gaz. vol. 184; p. 1031.
Phillips, William T., Berkeley, Cal. Lamp-cover. No. 1,028,271; June 4; Sp. p. 456; Gaz. vol. 179; p. 66.
Phillipson, Walter H., Hornell, N. Y. Adjustable sawhorse. No. 1,044,816; Nov. 19; Gaz. vol. 184; p. 678.
Phillis, Clarence L., Mount Lebanon, Pa. Device for indicating liquid measure. No. 1,038,951; Sept. 17; Gaz. vol. 182; p. 670.
Philo, Edgar W., Elmira, N. Y. Fireless brooder. No. 1,013,562; Jan. 2; Sp. p. 1024; Gaz. vol. 174; p. 164.
Philo, Edgar W., Elmira, N. Y. Sectional coop. No. 1,013,563; Jan. 2; Sp. p. 1025; Gaz. vol. 174; p. 164.
Philo, Edgar W., Elmira, N. Y. Heaterless incubator and brooder. No. 1,038,431; Sept. 10; Gaz. vol. 182; p. 455.
Philp, Casimir von, assignor to Bethlehem Steel Company, South Bethlehem, Pa. Forging-press. No. 1,029,081; June 11; Sp. p. 2186; Gaz. vol. 179; p. 376.
Philpot, William H., and R. Vertiska, Humboldt, Nebr. Floor. No. 1,018,987; Feb. 27; Sp. p. 6117; Gaz. vol. 175; p. 1051.
Phin, John A., Toronto, Ontario, Canada. Divisional receptacle. No. 1,038,644; Sept. 17; Gaz. vol. 182; p. 564.
Phin, John A., Toronto, Ontario, Canada. Counter-vender. No. 1,039,796; Oct. 1; Gaz. vol. 183; p. 43.
Phinney, Charles. (See Knauss and Phinney.)
Phinney, Grover C., Marble Falls, Tex. Railway-switch. No. 1,028,776; June 4; Sp. p. 1524; Gaz. vol. 179; p. 237.
Phinney-Walker Keyless Clock Co. (See Milz, Walter E. E., assignor.)
Phoenix Glass Company. (See Wehr, George F., assignor.)
Phonoharp Company, The. (See Marx, Henry C., assignor.)
Piché, Jéan B. (See Piché, Siméon and J. B.)
Piché, Siméon and J. B., Montreal, Quebec, Canada. Spark-arrester. No. 1,026,633; May 14; Sp. p. 3377; Gaz. vol. 178; p. 557.
Picher Lead Company. (See Hughes, Louis S., assignor.)
Pichon, Louis A., Paris, France. Egg-case. No. 1,015,708; Jan. 23; Sp. p. 5776; Gaz. vol. 174; p. 984.
Pichula, Nikolai P., Rostof-on-the-Don, Russia. Machine for separating weed-seeds from corn-waste. No. 1,027,274; May 21; Sp. p. 4834; Gaz. vol. 178; p. 815.
Pickard, Orson L., Columbus, Ohio. Attachment for aeroplanes. No. 1,017,998; Feb. 20; Sp. p. 3930; Gaz. vol. 175; p. 680.
Pickard, Greenleaf W., Amesbury, Mass. Amplifier. No. 1,027,755; May 28; Sp. p. 5808; Gaz. vol. 178; p. 1012.
Pickas, James. (See Cerny, Vaclav, assignor.)
Picken, Edward, Willow City, N. D. Grain-shocking device. No. 1,040,007; Oct. 1; Gaz. vol. 183; p. 112.
Pickens, Davis A., assignor of one-half to J. L. Barefoot, Mendenhall, Miss. Spring-hub. No. 1,013,436; Jan. 2; Sp. p. 763; Gaz. vol. 174; p. 121.
Pickens, Valentine H., Florala, Ala. Stump-burner. No. 1,040,402; Oct. 8; Gaz. vol. 183; p. 275.
Pickering, Arthur L., Anderson, Ind. Gas-regulator. No. 1,015,975; Jan. 30; Sp. p. 6339; Gaz. vol. 174; p. 1103.
Pickering, Arthur L., Anderson, Ind. Gas-regulator. (Reissue.) No. 13,437; July 2; Gaz. vol. 180; p. 290.
Pickering, Frank. (See Onyons, Robert W., assignor.)
Pickering, Ruben L., Falling Spring, W. Va. Folding crate. No. 1,040,403; Oct. 8; Gaz. vol. 183; p. 276.
Pickett, Arthur B., Union City, Ohio, assignor to The Plant and Land Food Company, Baltimore, Md. Fertilizer-mixer. No. 1,036,327; Aug. 20; Gaz. vol. 181; p. 724.
Pickett, Ira N., Odell, Nebr. Rain-water filter. No. 1,032,700; July 16; Gaz. vol. 180; p. 724.
Pickett, John B., Grand Rapids, assignor of one-fourth to E. M. Vroman, one-eighth to J. W. Pfeifler, and one-eighth to S. D. Ketchum, Edmore, Mich. Type-writer. No. 1,037,981; Sept. 10; Gaz. vol. 182; p. 304.
Pickford, Edward F., *et al.* (See Rupley, George H., assignor.)
Pickles, Charles K., St. Louis, Mo., assignor, by mesne assignments, to Chicago Pneumatic Tool Company, Chicago, Ill. Pneumatic impact-tool. No. 1,029,082; June 11; Sp. p. 2194; Gaz. vol. 179; p. 377.
Pickles, James, assignor to S. O. & C. Co., Ansonia, Conn. Washer. No. 1,031,024; July 2; Gaz. vol. 180; p. 61.
Pictet, Raoul P., assignor to Sauerstoff-Industrie Aktiengesellschaft, Berlin, Germany. Increasing the intensity of incandescent light. No. 1,026,121; May 14; Sp. p. 2283; Gaz. vol. 178; p. 385.
Pidgin, Charles F. (See Sugden and Pidgin.)
Pielock, Eduard, and C. Züblin, Berlin, Germany. Heat-exchanging device. No. 1,015,831; Jan. 30; Sp. p. 6028; Gaz. vol. 174; p. 1053.
Pieper, Alphonse F. (See Pieper, Oscar H. and A. F.)
Pieper, Alphonse F., Rochester, N. Y. Extensible bracket. No. 1,036,703; Aug. 27; Gaz. vol. 181; p. 885.
Pieper, Alphonse F., Rochester, N. Y. Extensible bracket. No. 1,040,575; Oct. 8; Gaz. vol. 183; p. 336.
Pieper, August, and H. Case; said Case assignor of one-half to A. L. Johnson and W. F. Case, Gloversville, N. Y. Package-tying device. No. 1,021,886; Apr. 2; Sp. p. 289; Gaz. vol. 177; p. 47.
Pieper, E. P., *et al.* (See Whitmore, Charles J., assignor.)
Pieper, Henri, Liege, Belgium. Propulsion of motor-vehicles. No. 1,026,827; May 21; Sp. p. 3818; Gaz. vol. 178; p. 660.
Pieper, Henri, Liege, Belgium. Driving of rail and like vehicles. No. 1,041,867; Oct. 22; Gaz. vol. 183; p. 844.
Pieper, J. W., *et al.* (See Whitmore, Charles J., assignor.)
Pieper, Oscar H. and A. F., Rochester, N. Y. Electrolytic cell. No. 1,024,597; Apr. 30; Sp. p. 6165; Gaz. vol. 177; p. 1089.
Pieper, Oscar H. and A. F., Rochester, N. Y. Dental engine. No. 1,040,576; Oct. 8; Gaz. vol. 183; p. 337.
Pieper, Oscar H. and A. F., Rochester, N. Y. Dental engine. No. 1,040,577; Oct. 8; Gaz. vol. 183; p. 337.
Pier, Louis M., and M. H. Foster, Newark, N. J. Printing-press. No. 1,048,094; Dec. 24; Gaz. vol. 185; p. 895.
Pier, Mathias, Schlachtensee, near Berlin, Germany, assignor to E. I. du Pont de Nemours Powder Company, Wilmington, Del. Preparing halogen-oxygen compounds by electrolysis. No. 1,038,194; Sept. 10; Gaz. vol. 182; p. 373.
Pierce, Annie E., *et al.* (See Pierce, John G., assignor.)
Pierce-Arrow Motor Car Company, The. (See Adams, Conrad R., assignor.)
Pierce Arrow Motor Car Company, The. (See Sheppy and Way, assignors.)
Pierce, Burt N., Indianapolis, Ind. Carbureter-heater. No. 1,032,937; July 16; Gaz. vol. 180; p. 802.
Pierce, Charles F., Cartersville, and S. C. Byrd, Webb City, Mo. Grate-cleaner. No. 1,039,184; Sept. 24; Gaz. vol. 182; p. 763.
Pierce, Charles H., assignor of one-half to W. Sturgill, New Marshfield, Ohio. Engine. No. 1,030,679; June 25; Sp. p. 5903; Gaz. vol. 179; p. 1009.
Pierce, Charles S. (See Parmenter and Alden, assignors.)
Pierce, Clyde A., San Francisco, Cal. Sink-strainer. No. 1,035,733; Aug. 13; Gaz. vol. 181; p. 480.
Pierce, David. (See Thompson and Pierce.)
Pierce, Franklin H., Princeton, Ill. Gambrel. No. 1,029,314; June 11; Sp. p. 2697; Gaz. vol. 179; p. 457.
Pierce, George L., Brooklyn, N. Y. Shoe. No. 1,025,423; May 7; Sp. p. 693; Gaz. vol. 178; p. 110.
Pierce, George L., Brooklyn, N. Y. Shoe. No. 1,039,437; Sept. 24; Gaz. vol. 182; p. 852.
Pierce, George L., Brooklyn, N. Y. Cleat for athletic shoes. No. 1,041,667; Oct. 15; Gaz. vol. 183; p. 737.
Pierce, George L., New York, N. Y. Antislip-cleat. No. 1,038,645; Sept. 17; Gaz. vol. 182; p. 564.
Pierce, George L., Manchester, N. H., assignor to Presto Spinning Ring Holder Company, Boston, Mass. Spinning-ring holder. No. 1,031,086; July 2; Gaz. vol. 180; p. 85.
Pierce, Harry, *et al.* (See Rodgers, Josiah C., assignor.)
Pierce, Harry, Kansas City, Mo., assignor, by mesne assignments, to The Cable Company, Chicago, Ill. Music-sheet. (Reissue.) No. 13,464; Aug. 27; Gaz. vol. 181; p. 1048.
Pierce, Harry, Kansas City, Mo., assignor, by mesne assignments, to The Cable Company, Chicago, Ill. Tracker-board. (Reissue.) No. 13,491; Nov. 26; Gaz. vol. 184; p. 1051.

Alphabetical list of patentees—Continued.

Pierce, Harry, Kansas City, Mo., assignor, by mesne assignments, to The Cable Company, Chicago, Ill. Valve system and tracker-board. (Reissue.) No. 13,492; Dec. 3; Gaz. vol. 185; p. 219.
Pierce, Harry H., Indianapolis, Ind. Block-making machine. No. 1,038,646; Sept. 17; Gaz. vol. 182; p. 564.
Pierce, Howard C. (See Pennington and Pierce.)
Pierce, Irwin W., New York, N. Y. Railway-signal. No. 1,023,440; Apr. 16; Sp. p. 3593; Gaz. vol. 177; p. 639.
Pierce, James H., Bay City, Mich. Gas-engine. No. 1,022,502; Apr. 9; Sp. p. 1579; Gaz. vol. 177; p. 282.
Pierce, James H., Bay City, Mich., assignor of one-half to J. H. Budd, Wilmington, Del. Engine. No. 1,034,732; Aug. 6; Gaz. vol. 181; p. 110.
Pierce, James M., Des Moines, Iowa. Delivering attachment for printing-presses. No. 1,017,999; Feb. 20; Sp. p. 3933; Gaz. vol. 175; p. 680.
Pierce, James M., assignor of one-half to C. K. Bennett, Owatonna, Minn. Churn. No. 1,020,368; Mar. 12; Sp. p. 2869; Gaz. vol. 176; p. 486.
Pierce, Jefferson F., Tampa, Fla. Electric-light stand or support. No. 1,044,689; Nov. 19; Gaz. vol. 184; p. 634.
Pierce, John G., assignor of seven-sixteenths to K. Thomas, seven-sixteenths to A. E. Pierce, and two-sixteenths to J. G. Pierce, Salt Lake City, Utah. Drier. No. 1,038,952; Sept. 17; Gaz. vol. 182; p. 671.
Pierce, John H., Oakland, Cal. Hydroplane. No. 1,014,514; Jan. 9; Sp. p. 3124; Gaz. vol. 174; p. 520.
Pierce, Kirk D., Hillsboro, and S. C. Ellis, Keene, N. H. Fruit-picker. No. 1,024,358; Apr. 23; Sp. p. 5540; Gaz. vol. 177; p. 971.
Pierce, Parley S. (See Swain, Charles S., assignor.)
Pierce, Robert C., assignor to The Toledo Electric Welder Company, Cincinnati, Ohio. Electric welding-machine. No. 1,046,639; Dec. 10; Gaz. vol. 185; p. 332.
Pierce, William H. (See Nolan and Pierce.)
Pierce, William T., Cambridge, Mass. Auxiliary power for pumping. No. 1,036,328; Aug. 20; Gaz. vol. 181; p. 725.
Pierce, Willis F., Seattle, Wash. Receptacle for liquids. No. 1,025,834; May 7; Sp. p. 1584; Gaz. vol. 178; p. 251.
Pierce, Willis F., Seattle, Wash. Dispensing-can. No. 1,026,828; May 21; Sp. p. 3821; Gaz. vol. 178; p. 661.
Pierce, Zachariah L., and D. Warren, Hanna City; said Warren assignor to S. A. Stewart, Tivoli, Ill. Switch-throwing device. No. 1,026,602; May 14; Sp. p. 3299; Gaz. vol. 178; p. 545.
Pierman, Alexander N., Newark, N. J. Toy and game. No. 1,032,501; July 16; Gaz. vol. 180; p. 654.
Pierman, Alexander N., Newark, assignor, by mesne assignments, to Thomas A. Edison, Incorporated, West Orange, N. J. Sound-reproducer. No. 1,024,696; Apr. 30; Sp. p. 6375; Gaz. vol. 177; p. 1123.
Pierman, Alexander N., Newark, assignor, by mesne assignments, to Thomas A. Edison, Incorporated, West Orange, N. J. Phonograph-reproducer. No. 1,024,697; Apr. 30; Sp. p. 6378; Gaz. vol. 177; p. 1124.
Pierman, Alexander N., Newark, assignor, by mesne assignments, to Thomas A. Edison, Incorporated, West Orange, N. J. Sound-reproducer. No. 1,034,031; July 30; Gaz. vol. 180; p. 1238.
Pierman, Alexander N., Newark, assignor, by mesne assignments, to Thomas A. Edison, Incorporated, West Orange, N. J. Phonograph-reproducer. No. 1,036,329; Aug. 20; Gaz. vol. 181; p. 725.
Pierman, Alexander N., Newark, assignor, by mesne assignments, to Thomas A. Edison, Incorporated, West Orange, N. J. Sound-reproducing apparatus. No. 1,042,034; Oct. 22; Gaz. vol. 183; p. 900.
Pierpont, Frank H., Horley, England, assignor to Lanston Monotype Machine Company, Philadelphia, Pa. Type-casting machine. No. 1,024,524; Apr. 30; Sp. p. 5973; Gaz. vol. 177; p. 1064.
Pierpont, Frank H., Horley, England, assignor to Lanston Monotype Machine Company, Philadelphia, Pa. Matrix stamping or punching machine. No. 1,042,475; Oct. 29; Gaz. vol. 183; p. 1075.
Pierpont, Frank H., Horley, England, assignor to Lanston Monotype Machine Company, Philadelphia, Pa. Spacing mechanism for type casting and composing machines. No. 1,042,476; Oct. 29; Gaz. vol. 183; p. 1076.
Pierrel, Anthony S., Washington, La. Spark-plug. No. 1,037,307; Sept. 3; Gaz. vol. 182; p. 43.
Pierson, Benjmin F., assignor to J. R. Burrows, Wilmington, Del. Pivot for deck-sashes. No. 1,031,025; July 2; Gaz. vol. 180; p. 62.
Pierson, Roy N., Minneapolis, Minn. Lock. No. 1,042,263; Oct. 22; Gaz. vol. 183; p. 974.
Pierson, William D. (See O'Donnell and Pierson.)
Pietilainen, Matti, Pittsburgh, Pa. Wrench. No. 1,024,907; Apr. 30; Sp. p. 6811; Gaz. vol. 177; p. 1197.
Pigeon, Albert M., Philadelphia, Pa. Yarn-feeding device for knitting-machines. No. 1,026,175; May 14; Sp. p. 2384; Gaz. vol. 178; p. 402.
Pigeon, Albert M., Philadelphia, Pa. Yarn-feed device for knitting-machines. No. 1,026,176; May 14; Sp. p. 2387; Gaz. vol. 178; p. 403.
Pigeon, Albert M., Providence, R. I. Knitting-machine. No. 1,034,032; July 30; Gaz. vol. 180; p. 1238.
Pigg, Benjamin F., Bonner Springs, Kans. Hanger for box-cars. No. 1,049,263; Dec. 31; Gaz. vol. 185; p. 1333.
Pignocco, John, La Salle, Ill. Permutation door-lock. No. 1,015,832; Jan. 30; Sp. p. 6029; Gaz. vol. 174; p. 1053.
Pigott, Henry C. (See Smith and Pigott.)
Pigott, Stephen J., St. Ann's, Helensburgh, Scotland, assignor to General Electric Company. Elastic-fluid turbine. No. 1,021,260; Mar. 26; Sp. p. 4789; Gaz. vol. 176; p. 874.
Pihl, Nils H. C., assignor of one-half to J. G. MacCune and one-half to F. H. Peterson, Minneapolis, Minn. Comb-cleaner. No. 1,037,182; Aug. 27; Gaz. vol. 181; p. 1044.
Pihlstrom, Ernest H., *et al.* (See Farrier, Mervin J., Jr., assignor.)
Pike, Arthur E., Longbeach, Cal. Reflector. No. 1,040,008; Oct. 1; Gaz. vol. 183; p. 112.
Pike, Edward. (See Nesbit and Pike.)
Pike, Frederic J., Beckenham, and H. Neville, Forest Hill, assignors to J. Stone & Company Limited, Deptford, England. Fluid-pressure apparatus for operating bulkhead and other doors. No. 1,039,185; Sept. 24; Gaz. vol. 182; p. 764.
Pike, Frederick N., New York, N. Y., assignor of one-third to E. N. Dickerson, Stovall, N. C. Apparatus for winding armatures for dynamos and motors. No. 1,048,205; Dec. 24; Gaz. vol. 185; p. 932.
Pike, William H., Jr., assignor to New York Adding Typewriter Company, Orange, N. J. Combined type-writing and adding machine. No. 1,037,521; Sept. 3; Gaz. vol. 182; p. 117.
Pike, Willis, Fresno, Cal. Powder-receptacle. No. 1,025,924; May 7; Sp. p. 1822; Gaz. vol. 178; p. 281.
Pilain, Emile. (See Rolland and Pilain.)
Piles, Isaac, Yankton, S. D. Legging. No. 1,034,831; Aug. 6; Gaz. vol. 181; p. 145.
Pilkington, William R., Bamber Bridge, near Preston, England. Sun-dial. No. 1,044,238; Nov. 12; Gaz. vol. 184; p. 448.
Pill, J. R. (See Jordan, Allen, assignor.)
Pilley Packing & Flue Brush Manufacturing Company. (See Rawson and Shultz, assignors.)
Pillig, John, Amsterdam, N. Y. Non-refillable bottle. No. 1,035,900; Aug. 20; Gaz. vol. 181; p. 576.
Pilliner, Philip F., Philadelphia, Pa. Valve-spring compressor. No. 1,045,321; Nov. 26; Gaz. vol. 184; p. 881.
Pilling, Charles J., Philadelphia, Pa. Acoumeter. No. 1,017,795; Feb. 20; Sp. p. 3459; Gaz. vol. 175; p. 609.
Pilling, Henry, Lancaster, England. Controlling-gear for steam or other fluid engines. No. 1,047,836; Dec. 17; Gaz. vol. 185; p. 780.
Pilliod, James J., Chicago, Ill. Trousers-stretcher. No. 1,014,024; Jan. 9; Sp. p. 2095; Gaz. vol. 174; p. 351.
Pillsbury, C. L., *et al.* (See Chatfield, Franklin, assignor.)
Pilsworth, Edward S. (See Desenberg and Pilsworth.)
Pilz, Carl, Liesing, near Vienna, Austria-Hungary. Producing fast brown resists on vegetable fibers. No. 1,041,510; Oct. 15; Gaz. vol. 183; p. 685.
Pim, Leslie L., and J. J. Christmann, Denver, Colo. Electric ticket-selling device and change-maker. No. 1,014,515; Jan. 9; Sp. p. 3127; Gaz. vol. 174; p. 520.
Pim, Thomas H., *et al.* (See Burrows, Clarence B., assignor.)
Pinckert, Frank, Carthage, Mo. Lifting attachment for mowing-machines. No. 1,048,731; Dec. 31; Gaz. vol. 185; p. 1150.
Pindell, William M., Chicago, Ill. Reinforcing and protecting device for street-pavements. No. 1,034,504; Aug. 6; Gaz. vol. 181; p. 35.
Pinder, Joseph W., Oakland, Cal. Belt-concentrator. No. 1,030,427; June 25; Sp. p. 5159; Gaz. vol. 179; p. 918.
Pindstofte, Anders A., Copenhagen, Denmark. Bottling-machine. No. 1,018,988; Feb. 27; Sp. p. 6118; Gaz. vol. 175; p. 1051.
Pindstofte, Anders A., Copenhagen, Denmark. Pasteurizing apparatus. No. 1,027,894; May 28; Sp. p. 6189; Gaz. vol. 178; p. 1061.
Pindtershofen, Victor P. v., Wiener-Neustadt, Austria-Hungary. Making insulating-tubes. No. 1,025,763; May 7; Sp. p. 1444; Gaz. vol. 178; p. 227.
Pindtershofen, Victor P. von, Wiener-Neustadt, Austria-Hungary. Electric cable. No. 1,037,522; Sept. 3; Gaz. vol. 182; p. 117.
Pine Hill Crystal Spring Water Co. (See Head, Robert, assignor.)
Pine-Ihrig Machine Company. (See Pine, Wilber J., assignor.)
Pine, Samuel H., and L. Schneider, Baltimore, Md. Wrapping-paper-printing machine. No. 1,030,533; June 25; Sp. p. 5445; Gaz. vol. 179; p. 956.
Pine, Wilber J., assignor to Pine-Ihrig Machine Company, Oshkosh, Wis. Coiler-making machine. No. 1,047,285; Dec. 17; Gaz. vol. 185; p. 587.
Pines, Harry, New York, N. Y. Fire apparatus. No. 1,018,338; Feb. 20; Sp. p. 4634; Gaz. vol. 175; p. 796.

Alphabetical list of patentees—Continued.

Ping, Robert G., assignor of one-half to himself, one-fourth to J. A. Nash, and one-fourth to L. D. Phelps, Audubon, Iowa. Wagon end-gate. No. 1,035,901; Aug. 20; Gaz. vol. 181; p. 576.
Pingree, George A., Lamar, Colo. Beet gage member and topper. No. 1,045,074; Nov. 19; Gaz. vol. 184; p. 767.
Pink, Leonhard, Berlin, Germany; J. Simson, attorney in fact, assignor to said J. Simson, individually. Manufacturing jointless facings of floors, walls, and the like. No. 1,019,083; Mar. 5; Sp. p. 163; Gaz. vol. 176; p. 27.
Pinkerton, William F., Denver, Colo. Stove. No. 1,044,239; Nov. 12; Gaz. vol. 184; p. 448.
Pinkett, Robert, assignor of one-third to J. Penz, Philadelphia, Pa. Automatic drill. No. 1,041,343; Oct. 15; Gaz. vol. 183; p. 631.
Pinkney, William E., Scarbro, W. Va. Miner's lamp. No. 1,016,645; Feb. 6; Sp. p. 950; Gaz. vol. 175; p. 143.
Pinkston, William P., St. Louis, Mo. Combined registering and feeding magazine for guns. No. 1,037,308; Sept. 3; Gaz. vol. 182; p. 43.
Pinney, Byron W., Lestershire, N. Y. Reinforced-concrete railway-tie. No. 1,045,741; Nov. 26; Gaz. vol. 184; p. 1031.
Pinoli, Carlo, London, England, assignor of one-half to T. Giusti, Leghorn, Italy. Washing-machine. No. 1,030,855; June 25; Sp. p. 6449; Gaz. vol. 179; p. 1074.
Pinson, William C., Hermitage, Ark. Insect-destroyer. No. 1,024,698; Apr. 30; Sp. p. 6380; Gaz. vol. 177; p. 1124.
Pinsonneault, Ernst, *et al.* (See Bundy, Henry C., assignor.)
Pinto, Ralph, Stockton, Cal. Cheese-cutter. No. 1,044,080; Nov. 12; Gaz. vol. 184; p. 394.
Pintsch Compressing Company. (See Vuilleumier, Rudolph, assignor.)
Piogran Sales Company, The. (See White, Carl H., assignor.)
Piotrowski, Jozef, Uniontown, Pa. Trolley. No. 1,048,732; Dec. 31; Gaz. vol. 185; p. 1150.
Piotrowski, Julian. (See Wichrowski and Piotrowski.)
Piotrowski, Piotr, Fall River, Mass. Feed-bag. No. 1,033,463; July 23; Gaz. vol. 180; p. 1018.
Piovesan, Joseph E., Glassport, Pa. Water-protector for oil-bearings. No. 1,038,953; Sept. 17; Gaz. vol. 182; p. 671.
Piper, Mary E. (See Cox, James R., assignor.)
Piper, Myron H., Walpole, assignor to United Printing Machinery Company, Boston, Mass. Gage for sheet-feeding mechanism. No. 1,019,084; Mar. 5; Sp. p. 164; Gaz. vol. 176; p. 28.
Piper, Richard J., Chicago, Ill. Ash-receptacle for smokers. No. 1,045,176; Nov. 26; Gaz. vol. 184; p. 831.
Piper, Sheridan S., Spalding, Idaho. Link-guard. No. 1,017,458; Feb. 13; Sp. p. 2727; Gaz. vol. 175; p. 459.
Pipereaut, Pierre, and A. Vila, Paris, France. Producing pure zinc sulfid and thiosulfates. No. 1,013,511; Jan. 2; Sp. p. 918; Gaz. vol. 174; p. 147.
Pipher, Edward, Port Hope, Ontario, Canada. Pattern. No. 1,028,601; June 4; Sp. p. 1168; Gaz. vol. 179; p. 178.
Pipher, Edward, Port Hope, Ontario, Canada. Pattern. No. 1,028,602; June 4; Sp. p. 1170; Gaz. vol. 179; p. 179.
Pipher, Edward, Port Hope, Ontario, Canada. Flask for the casting of metal bodies. No. 1,028,603; June 4; Sp. p. 1172; Gaz. vol. 179; p. 179.
Pippert, Willis, Rumford, Me., assignor to Continental Paper Bag Company, New York, N. Y. Feeding mechanism. No. 1,031,195; July 2; Gaz. vol. 180; p. 123.
Pitcairn, Robert, assignor of one-half to The Stearns-Roger Manufacturing Company, Denver, Colo. Apparatus for preparing and feeding fine fuel. No. 1,048,869; Dec. 31; Gaz. vol. 185; p. 1198.
Pitcher, Frederic D., Rochester, N. Y., assignor to Welsbach Light Company, Gloucester City, N. J. Gas-chain fixture. No. 1,046,489; Dec. 10; Gaz. vol. 185; p. 278.
Pitcher, Hugh B., Boonton, N. J. Door for elevator-shafts. No. 1,043,138; Nov. 5; Gaz. vol. 184; p. 32.
Pitel, Conrad M., Meriden, Conn. Gas or electric light extension-fixture. No. 1,025,537; May 7; Sp. p. 969; Gaz. vol. 178; p. 150.
Pitkin, Stephen H., Akron, and F. Moeller, assignors to The Wellman-Seaver-Morgan Company, Cleveland, Ohio. Clutch. No. 1,031,729; July 9; Gaz. vol. 180; p. 348.
Pitkin, Stephen H., and J. H. Stratton, assignors to The Wellman-Seaver-Morgan Company, Cleveland, Ohio. Chilian mill. No. 1,031,730; July 9; Gaz. vol. 180; p. 348.
Pitman, Henry L., Pineville, Ky. Calculating apparatus for type-writers, &c. No. 1,045,434; Nov. 26; Gaz. vol. 184; p. 920.
Pitre, Gustave, Paris, France. Unsinkable boat. No. 1,035,046; Aug. 6; Gaz. vol. 181; p. 214.
Pitre, James. Cut Off, La. Wire-stretcher. No. 1,024,223; Apr. 23; Sp. p. 5298; Gaz. vol. 177; p. 928.
Pitt, Ethelberht D., Niagara Falls, Ontario, Canada. Concrete reinforcement. No. 1,037,523; Sept. 3; Gaz. vol. 182; p. 118.
Pitt, John W. (See Hoge and Pitt.)
Pitt, William J., Bodmin, Cornwall, England. Carving-dish. No. 1,038,647; Sept. 17; Gaz. vol. 182; p. 564.
Pitt, William P., Independence, assignor to Irving-Pitt Manufacturing Company, Kansas City, Mo. Book-cover attachment No. 1,017,796; Feb. 20; Sp. p. 3463; Gaz. vol. 175; p. 609.
Pitt, William P., Independence, assignor to Irving-Pitt Manufacturing Company, Kansas City, Mo. Loose-leaf binder. No. 1,017,797; Feb. 20; Sp. p. 3464; Gaz. vol. 175; p. 610.
Pittack, Oscar, and A. B. Warman, Scranton, Pa. Caster. No. 1,039,590; Sept. 24; Gaz. vol. 182; p. 907.
Pittman, William T., assignor to Crescent Pump Works, Fort Worth, Tex. Double-acting pump-jack. No. 1,028,959; June 11; Sp. p. 1935; Gaz. vol. 179; p. 334.
Pitton, James. (See Hood, John, assignor.)
Pitts, Matthew B., Toccoa, Ga., and J. A. Hancock, Columbia, S. C. Vending apparatus. No. 1,022,753; Apr. 9; Sp. p. 2156; Gaz. vol. 177; p. 369.
Pittsburg Meter Company. (See Chrisman, Horace, assignor.)
Pittsburg Screw & Bolt Company. (See Collins, John A., assignor.)
Pittsburg Seamless Tube Company. (See Blaxter, George H., assignor.)
Pittsburg Water Heater Company. (See Frampton, Reynolds C., assignor.)
Pittsburgh Brake Shoe Company. (See Kinzer, John J., assignor.)
Pittsburgh Can Company. (See Russell, George, assignor.)
Pittsburgh Equipment Company. (See Pulliam, Oswald S., assignor.)
Pittsburgh Lamp, Brass & Glass Company. (See Ewing, Robert E., assignor.)
Pittsburgh Plate Glass Company. (See Franzen and Bechtel, assignors.)
Pittsburgh Plate Glass Company. (See Heichert, Herman S., assignor.)
Pittsburgh Plate Glass Company. (See Hitner, Harry F., assignor.)
Pittsburgh Plate Glass Company. (See Nameche, Joseph, assignor.)
Pittsburgh Plate Glass Company. (See Oakes and Ressler, assignors.)
Pittsburgh Plate Glass Company. (See Slingluff, Harry G., assignor.)
Pittsburgh Seamless Tube Company. (See Blaxter, George H., assignor.) (Reissue.)
Pittsburgh Seamless Tube Company, The. (See Parker, Benjamin F., assignor.)
Pittsburgh Steel Foundry. (See Allison and Hassel, assignors.)
Pittsburgh Steel Foundry Company. (See Pulliam, Oswald S., assignor.)
Pittsburgh Steel Products Co. (See Brock, Richard E., assignor.)
Pittsburgh Steel Products Co. (See Selkirk, William M., assignor.)
Pittsburgh Steel Products Company. (See Brock and Selkirk, assignors.)
Pittsburgh Steel Products Company. (See Fassl, Aloys, assignor.) (Reissue.)
Pittsburgh Stogie and Cigar Company. (See Sharpe, William D., assignor.)
Pittsfield Spark Coil Company. (See Boynton, George H., assignor.)
Pittsfield Spark Coil Company. (See Wood, John E., assignor.)
Piver & Cie., L. T. (See Nocard, Paul, assignor.)
Pivot Auto Light Co. (See Thomson, Arthur G., assignor.)
Pixley, Charles H., Chicago, Ill., assignor to F. A. Hardy & Company. Neutralizing-cell and axis-indicator. No. 1,015,269; Jan. 16; Sp. p. 4797; Gaz. vol. 174; p. 807.
Pixley, Charles H., Chicago, Ill., assignor to F. A. Hardy & Company. Binocular-loop. No. 1,033,119; July 23; Gaz. vol. 180; p. 902.
Pixley, Charles H., Chicago, Ill., assignor to F. A. Hardy & Company. Ophthalmometer. No. 1,046,105; Dec. 8; Gaz. vol. 185; p. 105.
Plaatje, Richard J., New York, N. Y. Thread-guide for sewing-machines. No. 1,034,832; Aug. 6; Gaz. vol. 181; p. 145.
Place, Frederick E., Chicago, and G. P. S. Cross, Harvey, assignors to Buda Foundry & Manufacturing Company, Chicago, Ill. Lifting-jack. No. 1,039,438; Sept. 24; Gaz. vol. 182; p. 853.
Plack, Ferdenand T., Harrisburg, Pa. Ring-gage. No. 1,016,358; Feb. 6; Sp. p. 269; Gaz. vol. 175; p. 42.
Plagman, Adolph, Davenport, Iowa. Power-transmitting apparatus. No. 1,026,998; May 21; Sp. p. 4224; Gaz. vol. 178; p. 720.
Plamondon, Zim J., Isadore, Mich. Horseshoeing-machine. No. 1,035,734; Aug. 13; Gaz. vol. 181; p. 480.
Planche, Etienne. (See Chevrolet and Planche.)
Planco, Jacob J., New York, N. Y. Cigar-box. No. 1,031,466; July 2; Gaz. vol. 180; p. 216.
Planecki, Johann, Krakau, and F. Drobniak, Jawiszowice, Austria-Hungary. Cash issuing, indicating, and registering apparatus. No. 1,038,432; Sept. 10; Gaz. vol. 182; p. 456.

Alphabetical list of patentees—Continued.

Planetary Machinery Company. (See Prindle, Henry U., assignor.)
Planiawerke Aktiengesellschaft für Kohlenfabrikation. (See Redlich, Berthold, assignor.)
Plank, J. Raymond, Grand Rapids, Mich. Flexible shafting. No. 1,036,144; Aug. 20; Gaz. vol. 181; p. 660.
Plant and Land Food Company, The. (See Pickett, Arthur B., assignor.)
Plant, Thomas G., assignor to United Shoe Machinery Company, Boston, Mass. Sewing-machine. No. 1,018,130; Feb. 20; Sp. p. 4224; Gaz. vol. 175; p. 726.
Plant, Thomas G., Boston, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Sewing-machine. (Reissue.) No. 13,374; Feb. 27; Sp. p. 6177; Gaz. vol. 175; p. 1062.
Plant, Thomas G., assignor to United Shoe Machinery Company, Boston, Mass. Sole-edge protector for boots or shoes. No. 1,025,048; May 14; Sp. p. 2108; Gaz. vol. 178; p. 358.
Plant, Thomas G., assignor to United Shoe Machinery Company, Boston, Mass. Sole-edge protector for boots and shoes. No. 1,029,219; June 11; Sp. p. 2491; Gaz. vol. 179; p. 423.
Plant, Thomas G., Boston, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Laying and leveling machine. No. 1,041,668; Oct. 15; Gaz. vol. 183; p. 737.
Plant, Thomas G., Boston, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Welt-shoe-preparing machine. No. 1,048,871; Dec. 31; Gaz. vol. 185; p. 1199.
Plante, Alfred H., assignor to Atlanta Metal Bed Company, Atlanta, Ga. Metal-tube-bending machine. No. 1,016,771; Feb. 6; Sp. p. 1214; Gaz. vol. 175; p. 186.
Plath, William A., and H. L. Risedorf, New York, N. Y. Ratchet-tool. No. 1,015,067; Jan. 16; Sp. p. 4402; Gaz. vol. 174; p. 739.
Plato, George J., San Francisco, Cal. Shock-absorber. No. 1,037,524; Sept. 3; Gaz. vol. 182; p. 118.
Platt, Clarence D., Bridgeport, Conn. Rotary snap-switch. No. 1,021,208; Mar. 26; Sp. p. 4668; Gaz. vol. 176; p. 856.
Platt, Clarence D., Bridgeport, Conn. Rotary contact for snap-switches. No. 1,037,525; Sept. 3; Gaz. vol. 182; p. 118.
Platt, Harry E., *et al.* (See Vargyas, Eugene von, assignor.)
Platt, James B., Baltimore, Md. Can. No. 1,035,634; Aug. 13; Gaz. vol 181; p. 447.
Platt, Maurice A., New York, N. Y. Pasteboard box. No. 1,019,833; Mar. 12; Sp. p. 1760; Gaz. vol. 176; p. 308.
Platt, Samuel L., Dallas, Tex., assignor of one-half to H. M. Porter, New York, N. Y. Pillow. No. 1,020,444; Mar. 19; Sp. p. 3043; Gaz. vol. 176; p. 551.
Platt, Thomas M., Philadelphia, Pa. Automatic feeder. No. 1,021,209; Mar. 26; Sp. p. 4670; Gaz. vol. 176; p. 856.
Player, John, River Forest, Ill. Machine for drawing sheet-glass. No. 1,032,238; July 9; Gaz. vol. 180; p. 521.
Player, John, River Forest, Ill. Method and apparatus for drawing sheet-glass. No. 1,032,239; July 9; Gaz. vol. 180; p. 522.
Pleasants, William H., assignor of one-half to F. C. Day, Cripple Creek, Colo. Stovepipe-retainer. No. 1,032,859; July 16; Gaz. vol. 180; p. 777.
Pledger, William A., Jr., and B. W. Wood, Geneva, Ala. Cotton-chopper. No. 1,013,951; Jan. 9; Sp. p. 1930; Gaz. vol. 174; p. 328.
Plein, Louis, Chicago, Ill. Carbureter. No. 1,018,776; Feb. 27; Sp. p. 5664; Gaz. vol. 175; p. 979.
Pleins, Leo H., assignor to James B. Clow & Sons, Chicago, Ill. Receptor for shower-baths. No. 1,017,167; Feb. 13; Sp. p. 2082; Gaz. vol. 175; p. 358.
Pleins, Rudolph C., St. Paul, Minn. Hinge. No. 1,029,629; June 18; Sp. p. 3380; Gaz. vol. 179; p. 602.
Pleister, Henry W., Westfield, assignor to H. B. Newhall, Plainfield, N. J. Expansion-bolt anchor. No. 1,021,794; Apr. 2; Sp. p. 77; Gaz. vol. 177; p. 17.
Pleister, Henry W., Westfield, assignor to H. B. Newhall, Plainfield, N. J. Ground-clamp. No. 1,024,021; Apr. 23; Sp. p. 4816; Gaz. vol. 177; p. 855.
Pleoger, George, Antigo, Wis. Vending-machine. No. 1,038,648; Sept. 17; Gaz. vol. 182; p. 565.
Pletnik, Itzek, Tzcherkassy, Russia. Calculating-machine. No. 1,044,240; Nov. 12; Gaz. vol. 184; p. 448.
Pletsch, Henry. (See Judd and Pletsch.)
Pleuthner, Charles. (See Nehrbas, Pleuthner, and Salzman.)
Plew, James E., Chicago, Ill. Motor-vehicle. No. 1,047,286; Dec. 17; Gaz. vol. 185; p. 587.
Plimpton, Harold, *et al.* (See Sloane, George H., assignor.)
Plocher, Martin. (See Winsze and Plocher.)
Plocher, Martin, St. Louis, Mo. Cuspidor. No. 1,047,287; Dec. 17; Gaz. vol. 185; p. 588.
Ploncard, Eugène A., Matana, Egypt. Locking device for screw bolts and nuts. No. 1,015,763; Jan. 23; Sp. p. 5889; Gaz. vol. 174; p. 1004.
Plopa, Charley, and J. Popp, Portage, Pa. Train-pipe coupling. No. 1,036,330; Aug. 20; Gaz. vol. 181; p. 725.
Plotner, Albert L., assignor to Plotner Can Company, Boston, Mass. Cracker-can. No. 1,035,635; Aug. 13; Gaz. vol. 181; p. 448.
Plotner Can Company. (See Plotner, Albert L., assignor.)
Ploughe, Isaac J., Plainville, Ill. Brooder. No. 1,043,139; Nov. 5; Gaz. vol. 184; p. 32.
Ploughe, Isaac J., Plainville, Ill. Chicken-separator. No. 1,043,140; Nov. 5; Gaz. vol. 184; p. 33.
Plowden, Arthur D., Sutherland, Tenn. Sawmill-carriage tester. No. 1,014,847; Jan. 16; Sp. p. 3924; Gaz. vol. 174; p. 665.
Plowman, Alva J., Ocean Park, Cal. Rotary pulverizer. No. 1,017,901; Feb. 20; Sp. p. 3722; Gaz. vol. 175; p. 648.
Plum, Matthias. (See Morrison, Lewis E., assignor.)
Plumb, Roy A., assignor to Trussed Concrete Steel Company, Detroit, Mich. Rendering cement mortar and concrete waterproof. No. 1.036,898; Aug. 27; Gaz. vol. 181; p. 948.
Plume and Atwood Manufacturing Company, The. (See Andersen, Lauritz W., assignor.)
Plume & Atwood Manufacturing Company, The. (See Wirth, Charles E., assignor.)
Plumer, James T., Yale, Ky. Fly and mosquito destroyer. No. 1,036,331; Aug. 20; Gaz. vol. 181; p. 726.
Plumm, Gottfried, Berlin, Germany. Spray-carbureter. No. 1,031,147; July 2; Gaz. vol. 180; p. 106.
Plummer, Adolph M. (See Darlington, Jesse, Jr., assignor.)
Plummer, Charles C., Chester, Iowa. Cream-ripener. No. 1,036,704; Aug. 27; Gaz. vol. 181; p. 885.
Plummer, Ezra G. (See Offill and Plummer.)
Plummer, Henry G., Honolulu, Hawaii. Apparatus for drilling in rough water. No. 1,041,158; Oct. 15; Gaz. vol. 183; p. 568.
Plummer, William, Indianapolis, Ind. Push-wheel. No. 1.021,554; Mar. 26; Sp. p. 5433; Gaz. vol. 176; p. 978.
Plummer, William H., and J. Tresider, Coleraine, Minn. Method of and apparatus for charging powder. No. 1,029,630; June 18; Sp. p. 3381; Gaz. vol. 179; p. 602.
Plunn, Matthias. (See Morrison, Lewis E., assignor.)
Plural System Ventilator Co., The. (See Mies, Frank P., assignor.)
Plüschke, George, New York, N. Y. Fishing apparatus. No. 1,045,177; Nov. 26; Gaz. vol. 184; p. 831.
Plymale, Sebastian, Portland, Oreg. Lubricating device. No. 1,043,141; Nov. 5; Gaz. vol. 184; p. 33.
Plympton Manufacturing Company. (See Bazley, William H., assignor.)
Pneucar Company. (See Hill, Louis A., assignor.)
Pneumatic Cushion Company, The. (See Gruss, Lucien R., assignor.)
Pneumatic Jack Company. (See Dittmar, Louis J., assignor.)
Pneumatic Scale Corporation. (See Doble, William H., assignor.)
Pneumatic Scale Corporation. (See Hiller and Joplin, assignors.)
Pneumatic Scale Corporation Limited. (See Joplin, William A., assignor.)
Pneumatic Scale Corporation Limited. (See Witt, John H., assignor.)
Pneumelectric Machine Company, The. (See Palmros, Alexander, assignor.)
Pochin, Harold N. (See Jackson and Pochin.)
Pochyla, Adolph A., West, Tex. Gate-fastener. No. 1,038,594; Sept. 17; Gaz. vol. 182; p. 671.
Pocklington, William C., Evanston, Ill. Drafting instrument. No. 1,031,665; July 2; Gaz. vol. 180; p. 283.
Podlesak, Emil, Tiffin, Ohio. Inductor-alternator. No. 1,024,418; Apr. 23; Sp. p. 5687; Gaz. vol. 177; p. 991.
Podlešák, Henry J., Chicago, Ill. Mixture-producing and speed-governing device for gas-engines. No. 1,014,328; Jan. 9; Sp. p. 2746; Gaz. vol. 174; p. 458.
Podlešák, Henry J., Chicago, Ill. Explosive-engine. No. 1,019,354; Mar. 5; Sp. p. 800; Gaz. vol. 176; p. 120.
Podlešák, Henry J., Chicago, Ill. Low-tension sparking mechanism for gas-engines. No. 1,022,642; Apr. 9; Sp. p. 1878; Gaz. vol. 177; p. 329.
Podlešák, Henry J., Chicago, Ill. Electrical ignition device. No. 1,034,645; Aug. 6; Gaz. vol. 181; p. 80.
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Podmore, Arthur J., Camden, N. J. Water-closet. No. 1,048,872; Dec. 31; Gaz. vol. 185; p. 1199.
Podolsky, Jacob, Boston, Mass. Trap for refrigerators. No. 1,034,505; Aug. 6; Gaz. vol. 181; p. 35.
Podszus, Leopold, Charlottenburg, Germany. Electric spark-plug for combustion-engines. No. 1,017,459; Feb. 13; Sp. p. 2728; Gaz. vol. 175; p. 459.
Poduschka, Victor, Klosternenburg, near Vienna, Austria-Hungary. Registering and recording apparatus. No. 1,047,837; Dec. 17; Gaz. vol. 185; p. 781.
Poe, Floyd A., *et al.* (See Hall, Frank M., assignor.)
Poe, John, Garfield, Ark., assignor of one-half to J. S. Russum, Independence, Kans. Signaling system. No. 1,022,260; Apr. 2; Sp. p. 1071; Gaz. vol. 177; p. 171.

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Poelma, Richard W., *et al.* (See Dahl, Jacob, assignor.)
Poeton, Lawrence, assignor to American Optical Company, Southbridge, Mass. Eyeglasses. No. 1,038,649; Sept. 17; Gaz. vol. 182; p. 565.
Pogue, John R. (See Drish, Frank W., assignor.)
Pogue, Robert H., New Westminster, British Columbia, Canada. Circular-saw guard. No. 1,035,735; Aug. 13; Gaz. vol. 181; p. 481.
Pogue, Robert H., New Westminster, British Columbia, Canada. Car-fender. No. 1,038,955; Sept. 17; Gaz. vol. 182; p. 671.
Pohjanen, Augusti, Astoria, Oreg. Combined can-top holder and marker. No. 1,039,797; Oct. 1; Gaz. vol. 183; p. 43.
Pohl, Heinrich. (See Grüter and Pohl.)
Pohl, Wilhelm, Dittersbach-Gruessau, Germany, assignor to G. Werner, Philadelphia, Pa. Grate mechanism and clearing means therefor. No. 1,041,344; Oct. 15; Gaz. vol. 183; p. 631.
Pohlig, Edgar, Philadelphia, Pa. Base-ball-game board. No. 1,042,142; Oct. 22; Gaz. vol. 183; p. 935.
Poince, John W. (See Curphey and Poince.)
Poindexter, William E., Sedalia, Mo. Pile-truss. No. 1,040,404; Oct. 8; Gaz. vol. 183; p. 276.
Point Marion Machine & Manufacturing Company. (See Reichel, Alvin S., assignor.)
Pointer, Zachariah T., Beacon, assignor of one-half to H. S. Marsh, Tracy, Iowa. Check-controlled apparatus. No. 1,031,087; July 2; Gaz. vol. 180; p. 85.
Poirier, Arthur F., East Douglass, assignor of one-half to S. B. Taft, Uxbridge, Mass. Loosener for carding-machines. No. 1,019,355; Mar. 5; Sp. p. 804; Gaz. vol. 176; p. 121.
Poisson, Joseph, Fall River, Mass. Hand-threading shuttle. No. 1,025,881; May 7; Sp. p. 1724; Gaz. vol. 178; p. 266.
Polacheck, Arthur. (See Neuhoefer and Polacheck.)
Polacheck, William. (See Neuhoefer and Polacheck.)
Polakovich, Joseph A., New Brighton, Pa. Can-opener. No. 1,018,266; Feb. 20; Sp. p. 4500; Gaz. vol. 175; p. 773.
Polansky, Robert F. (See Ogle and Polansky.)
Polhuis, Leendert P., Amsterdam, Netherlands, assignor by mesne assignments, to Union Typewriter Company, Jersey City, N. J. Type-writing machine. No. 1,026,879; May 21; Sp. p. 3937; Gaz. vol. 178; p. 679.
Polifka, Johann, and B. Hacker, assignors to "Impragnator" Impragnating Company Limited, Budapest, Austria-Hungary. Impregnation of wood. No. 1,024,864; Apr. 30; Sp. p. 6725; Gaz. vol. 177; p. 1184.
Polin, Oscar M., San Luis Obispo, Cal. Apparatus for making backing for teeth. No. 1,019,519; Mar. 5; Sp. p. 1175; Gaz. vol. 176; p. 175.
Polito, Sylvio L., San Francisco, Cal. Non-refillable bottle. No. 1,023,097; Apr. 23; Sp. p. 4995; Gaz. vol. 177; p. 882.
Politz, Gustav, Kattowitz, Germany. Means for protecting pipes from the injurious action of electric currents. No. 1,032,295; July 9; Gaz. vol. 180; p. 541.
Polizzi, Joseph, and F. W. Calongne, New Orleans, La. Device for raising sunken bodies. No. 1,019,724; Mar. 5; Sp. p. 1556; Gaz. vol. 176; p. 242.
Polk, Charles, *et al.* (See Forst, Moritz, assignor.)
Poll, George L., Brooklyn, N. Y. Specialist's chair. No. 1,029,315; June 11; Sp. p. 2697; Gaz. vol. 179; p. 458.
Pollack, A. Ivar, *et al.* (See Osterholm, Theodore O., assignor.)
Pollak, Eli, assignor of one-half to E. E. Clement, Washington, D. C. Flying-machine. No. 1,049,315; Dec. 31; Gaz. vol. 185; p. 1351.
Pollak, Norbert, Nordbahnhof, Vienna, Austria-Hungary. Railway for pleasure and sport. No. 1,019,834; Mar. 12; Sp. p. 1761; Gaz. vol. 176; p. 309.
Pollard, Amos G. (See Carr, Joseph, assignor.)
Pollard, Edson T., Rutland, Vt. Stone-sawing machine. No. 1,016,440; Feb. 6; Sp. p. 466; Gaz. vol. 175; p. 71.
Pollard, Effingham L., Dobbs Ferry, N. Y. Electrically-heated sad-iron. No. 1,027,895; May 28; Sp. p. 6190; Gaz. vol. 178; p. 1061.
Pollard, Effingham L., deceased, Dobbs Ferry, N. Y.; M. M. Pollard administratrix. Electrically-heated sad-iron. No. 1,043,864; Nov. 12; Gaz. vol. 184; p. 318.
Pollard, James S. (See Harris and Pollard.)
Pollard, John Z., and G. J. Lederer, Chicago, Ill. Apparatus for piling cloth. No. 1,021,002; Mar. 26; Sp. p. 4246; Gaz. vol. 176; p. 788.
Pollard, Marion M., administratrix. (See Pollard, Effingham L.)
Polley, Clarence W., Skaneateles, N. Y. Vacuum eraser-cleaner. No. 1,026,697; May 21; Sp. p. 3533; Gaz. vol. 178; p. 616.
Polley, James A., Somerville, Mass. Paper folding and cutting machine. No. 1,032,296; July 9; Gaz. vol. 180; p. 541.
Pollitz, George S., New York, N. Y., assignor to W. S. Bechtold, Newark, N. J. Manufacturing hair-pins. No. 1,031,467; July 2; Gaz. vol. 180; p. 216.
Pollmiller, August V., Fort Madison, Iowa. Automatic slide-lever cylinder-cock. No. 1,021,887; Apr. 2; Sp. p. 290; Gaz. vol. 177; p. 48.
Pollock, Ann J., executrix. (See Pollock, John.)
Pollock, George J., Smock, Pa. Journal-bearing. No. 1,046,640; Dec. 10; Gaz. vol. 185; p. 332.
Pollock, James. (See Pollock, John, assignor.)
Pollock, John, deceased, Belfast, Ireland; A. J. Pollock, executrix, assignor to J. Pollock, Brooklyn, N. Y. Feed-water heater. No. 1,044,909; Nov. 19; Gaz. vol. 184; p. 710.
Pollock, William A., New Orleans, La., assignor to American Delinting Co., Tie Plant, Miss. Delinting-machine. No. 1,032,938; July 16; Gaz. vol. 180; p. 802.
Polnisch, Paul, assignor to W. C. Schwebel, Philadelphia, Pa. Bottle-cleaning machine. No. 1,020,156; Mar. 12; Sp. p. 2449; Gaz. vol. 176; p. 417.
Polnisch, Paul, assignor to W. C. Schwebel, Philadelphia, Pa. Gearing device. No. 1,020,309; Mar. 12; Sp. p. 2756; Gaz. vol. 176; p. 467.
Polo, Joseph B., Clear Lake, S. D. Tire-alarm. No. 1,038,433; Sept. 10; Gaz. vol. 182; p. 456.
Polo, Joseph B., Clear Lake, S. D. Tire-alarm. No. 1,049,142; Dec. 31; Gaz. vol. 185; p. 1292.
Polsen, Samuel D., and I. Elson, Bridgeport, Conn. Coin-controlled vending-machine. No. 1,015,709; Jan. 23; Sp. p. 5777; Gaz. vol. 174; p. 985.
Polverino, Giuseppe, New York, N. Y. Album book-stand. No. 1,017,460; Feb. 13; Sp. p. 2729; Gaz. vol. 175; p. 460.
Polygraph Duplicating Typewriter Company. (See Fanslow, Benjamin O., assignor.)
Polzer, Alois, Albert, Kans. Gate. No. 1,024,022; Apr. 23; Sp. p. 4818; Gaz. vol. 177; p. 856.
Pomernacki, Frank. (See Wertz and Pomernacki.)
Pomeroy Company. (See Hartwig, Emil, assignor.)
Pomeroy, Edgar A., San Jose, Cal. Sinker-support. No. 1,033,464; July 23; Gaz. vol. 180; p. 1018.
Pomeroy, Frederick E., and J. D. Harbaugh, Muncie, Ind. Gear-generating machine. No. 1,038,650; Sept. 17; Gaz. vol. 182; p. 565.
Pomeroy, George, St. Ignace, Mich. Fish-dressing machine. No. 1,036,899; Aug. 27; Gaz. vol. 181; p. 948.
Pomeroy, George W., Logansport, Ind. Mail-bag catcher and deliverer. No. 1,039,798; Oct. 1; Gaz. vol. 183; p. 43.
Pomeroy, S. H. (See Poppendieck, William, assignor.)
Pomeroy, Silas H., *et al.* (See Iman, Orla H., assignor.)
Pomeroy, Silas H., New Rochelle, N. Y. Fireproof window. No. 1,025,995; May 14; Sp. p. 1975; Gaz. vol. 178; p. 340.
Pommier, Charles, Passaic, N. J. Shuttle. No. 1,022,046; Apr. 2; Sp. p. 628; Gaz. vol. 177; p. 100.
Pompeian Paint Company. (See Henning, Charles T., assignor.)
Pompili, Riccardo, Villino Arnaldi, Tivoli, Italy. Projectile and firing the same. No. 1,045,075; Nov. 19; Gaz. vol. 184; p. 768.
Pond, Alvin B., Enid, Okla. Poultry-roost. No. 1,047,697; Dec. 17; Gaz. vol. 185; p. 733.
Pond, Edmund M., Rutland, Vt. Surgical bandage. No. 1,044,817; Nov. 19; Gaz. vol. 184; p. 679.
Ponder, Benjamin H., assignor of one-half to J. H. Waters, Camden, Ark. Yarn-cutter. No. 1,015,339; Jan. 23; Sp. p. 4976; Gaz. vol. 174; p. 859.
Ponkow, Ernst, Baltimore, Md. Box-binding machine. No. 1,029,509; June 11; Sp. p. 3121; Gaz. vol. 179; p. 523.
Ponnay, Richard, assignor of one-fourth to J. F. Hubbard, Los Angeles, Cal. Blasting-powder. No. 1,033,927; July 30; Gaz. vol. 180; p. 1199.
Pons, Angel, Buffalo, N. Y. Fiber-cleaning machine. No. 1,046,641; Dec. 10; Gaz. vol. 185; p. 332.
Pons, Arthur A., New York, N. Y. Rowing-machine. No. 1,013.437; Jan. 2; Sp. p. 764; Gaz. vol. 174; p. 121.
Pons, Arthur A., New York, N. Y. Exercising apparatus. No. 1,023,756; Apr. 16; Sp. p. 4196; Gaz. vol. 177; p. 737.
Pons, Arthur A., Brooklyn, N. Y. Refrigerator. No. 1,014,329; Jan. 9; Sp. p. 2755; Gaz. vol. 174; p. 458.
Pontani, Heinrich, Frankfort-on-the-Main, Germany. Apparatus for removing scale and the like from boilers. No. 1,045,742; Nov. 26; Gaz. vol. 184; p. 1031.
Pontbriand, Gilbert, West Warren, Mass. Hydrocarbon-burner. No. 1,042,821; Oct. 29; Gaz. vol. 183; p. 1197.
Pontbriand, Henri M. (See Duplessis, Elouild, assignor.)
Pontiere, Stanley, Ocean City, N. J. Submarine life-saving and observation tender. No. 1,019,356; Mar. 5; Sp. p. 805; Gaz. vol. 176; p. 121.
Pool, Morris W., New York, N. Y., assignor, by mesne assignments, to Union Typewriter Company, Jersey City, N. J. Type-writing machine. No. 1,024,280; Apr. 23; Sp. p. 5409; Gaz. vol. 177; p. 947.
Pool, Morris W., New York, N. Y., assignor to Union Typewriter Company of New Jersey, Jersey City, N. J. Type-writing machine. No. 1,033,268; July 23; Gaz. vol. 180; p. 951.

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Pool, Morris W., New York, N. Y., assignor, by mesne assignments, to Union Typewriter Company, Jersey City, N. J. Type-writing machine. No. 1,040,406; Oct. 8; Gaz. vol. 183; p. 277.
Poole, Arthur E., Trenton, N. J. Non-refillable bottle. No. 1,043,720; Nov. 5; Gaz. vol. 184; p. 237.
Poole, Arthur F., Wheeling, W. Va., assignor to Holtzer-Cabot Electric Company, Brookline, Mass. Frequency-meter. No. 1,036,900; Aug. 27; Gaz. vol. 181; p. 948.
Poole, Frederick P., and P. A. Brendel, assignors to The Bryant Electric Company, Bridgeport, Conn. Fuse. No. 1,022,329; Apr. 2; Sp. p. 1209; Gaz. vol. 177; p. 193.
Poole, Walter L., Covington, Va., assignor of one-half to A. Medwedeff, Baltimore, Md. Automatic safety appliance for railway-cars. No. 1,026,766; May 21; Sp. p. 3699; Gaz. vol. 178; p. 640.
Poole, William E. (See Taylor, Ernest M., assignor.)
Poole, William J., Los Angeles, Cal. Type-composing machine. No. 1,032,564; July 16; Gaz. vol. 180; p. 675.
Pooler, Alfred L., Bangor, Me. Puzzle toy. No. 1,033,616; July 23; Gaz. vol. 180; p. 1068.
Pooler, Earl, Seattle, Wash. Filling-block for phonograph-record cabinets. No. 1,030,534; June 25; Sp. p. 5446; Gaz. vol. 179; p. 957.
Pooley, Edward F., New York, N. Y. Cabinet or holder for disk records and the like. No. 1,014,172; Jan. 9; Sp. p. 2397; Gaz. vol. 174; p. 402.
Pooley, Henry, Birmingham, England. Weighing-machine. No. 1,028,604; June 4; Sp. p. 1174; Gaz. vol. 179; p. 179.
Poore, Graydon, and H. A. Harvey, London, England. Explosion apparatus for raising and forcing water. No. 1,027,430; May 28; Sp. p. 5170; Gaz. vol. 178; p. 906.
Poore, John C., Chicago, Ill. Nursing-bottle. No. 1,037,309; Sept. 3; Gaz. vol. 182; p. 43.
Poorman, Charles E. (See Kirkpatrick and Poorman.)
Popa, Dumitru, Canton, Ohio. Water-heater. No. 1,015,833; Jan. 30; Sp. p. 6033; Gaz. vol. 174; p. 1053.
Pope Automatic Merchandising Company. (See Kainer, Frederick C., assignor.)
Pope, Charles E., assignor of three-fifths to Japanese Tissue Mills, Holyoke, Mass. Paper-machine. No. 1,022,378; Apr. 2; Sp. p. 1300; Gaz. vol. 177; p. 210.
Pope, Charles E., assignor of three-fifths to Japanese Tissue Mills, Holyoke, Mass. Web feeding and drying apparatus for paper-machines. No. 1,022,379; Apr. 2; Sp. p. 1303; Gaz. vol. 177; p. 210.
Pope, Edward J., Holyoke, Mass., and J. W. Mullen, St. Joseph, Mich. Pulp-screen. No. 1,032,701; July 16; Gaz. vol. 180; p. 725.
Pope, Edwin, Quebec, Quebec, Canada. Telegraph apparatus. No. 1,043,865; Nov. 12; Gaz. vol. 184; p. 319.
Pope, Ella M. (See Pope, Frederick and G. M., assignors.)
Pope, Frederick, New York, N. Y., and G. M. Pope, Mount Pleasant, Ga.; said G. M. Pope assignor to E. M. Pope, Boston, Mass. Apparatus and method for distilling wood. No. 1,030,011; June 18; Sp. p. 4227; Gaz. vol. 179; p. 732.
Pope, George M. (See Pope, Frederick and G. M.)
Pope, Henry F., assignor to The National Malleable Castings Company, Cleveland, Ohio. Journal-box-securing mechanism. No. 1,024,456; Apr. 23; Sp. p. 5769; Gaz. vol. 177; p. 1003.
Pope, James W. (See Thebiay and Pope.)
Pope, John F., Chicago, and H. V. Bennett, Morton Park, Ill. Electric and steam locomotive. No. 1,036,901; Aug. 27; Gaz. vol. 181; p. 949.
Pope, Joseph H., Brockton, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for attaching heels. No. 1,030,680; June 25; Sp. p. 5905; Gaz. vol. 179; p. 1009.
Pope Manufacturing Company, The. (See Hubbell, Lindley D., assignor.)
Pope, Marion J., Boswell, Okla. Hair-holder. No. 1,040,750; Oct. 8; Gaz. vol. 183; p. 398.
Pope, Richard, Brisbane, Queensland, Australia. Shock-absorber. No. 1,045,076; Nov. 19; Gaz. vol. 184; p. 768.
Popini, Daniel S., Chicago, Ill. Parcel-carrier for motorcycles. No. 1,013,684; Jan. 2; Sp. p. 1332; Gaz. vol. 174; p. 206.
Popkess, Michael A., Kansas City, Mo. Road-making machine. No. 1,013,512; Jan. 2; Sp. p. 920; Gaz. vol. 174; p. 147.
Popp, John. (See Plopa and Popp.)
Popp, Richard G., assignor to The Société Générale Des Compteurs De Voitures (Taximètres), Paris, France. Taximeter. No. 1,016,518; Feb. 6; Sp. p. 658; Gaz. vol. 175; p. 99.
Poppe, Leopold, Berlin, Germany. Regrinding and polishing perforated diamonds. No. 1,039,186; Sept. 24; Gaz. vol. 182; p. 764.
Poppendieck, William, Carlstadt, N. J., assignor to S. H. Pomeroy, New Rochelle, N. Y. Fusible-link device. No. 1,021,329; Mar. 26; Sp. p. 4924; Gaz. vol. 176; p. 900.
Poppenhusen, Herman A., Evanston, and J. Harrington, Riverside, Ill. Deflecting-partition for furnaces. No. 1,014,903; Jan. 16; Sp. p. 4044; Gaz. vol. 174; p. 684.
Poppenhusen, Herman A., Evanston, and J. Harrington, Riverside, Ill. Steam-boiler furnace. No. 1,027,667; May 28; Sp. p. 5639; Gaz. vol. 178; p. 984.
Popper & Co. (See Zollinger, Adalbert, assignor.)
Poppert, Lillian, assignor of one-half to R. A. Kirk, Portland, Oreg. Collapsible wire basket. No. 1,027,215; May 21; Sp. p. 4725; Gaz. vol. 178; p. 794.
Porath, Carl A. (See Nullmeyer and Porath.)
Porath, Richard, Pyritz, Germany. Treating the root of chicory. No. 1,022,047; Apr. 2; Sp. p. 630; Gaz. vol. 177; p. 100.
Porges, Philipp, Vienna, and R. Neumann, Brünn, Austria-Hungary. Apparatus for cooling paraffin or the like. No. 1,017,587; Feb. 13; Sp. p. 2963; Gaz. vol. 175; p. 500.
Porowski, Wladyslaw J., Brooklyn, N. Y. Glass-beveling machine. No. 1,019,520; Mar. 5; Sp. p. 1176; Gaz. vol. 176; p. 175.
Porsch, George B., Fort Wayne, Ind., assignor to Van Arnam Manufacturing Company. Valve-operating device. No. 1,035,123; Aug. 6; Gaz. vol. 181; p. 240.
Pörscke, Heinrich P. R. L., and J. A. E. Achenbach, Hamburg, Germany. Electrode for secondary galvanic cells. No. 1,032,158; July 9; Gaz. vol. 180; p. 493.
Port, Charles A., J. E. O'Neal, and D. E. Motz, Pagosa Springs, Colo. Gasolene-filter. No. 1,032,240; July 9; Gaz. vol. 180; p. 522.
Porteous, James, Fresno, Cal. Vineyard-plow. No. 1,029,765; June 18; Sp. p. 3682; Gaz. vol. 179; p. 649.
Porteous, Robert H. (See Hager and Porteous.)
Porter, Albert M., Amsterdam, Mo. Automatic train-pipe coupling. No. 1,021,261; Mar. 26; Sp. p. 4791; Gaz. vol. 176; p. 875.
Porter, Charles D. (See Kelleher and Porter.)
Porter & Co., C. B. (See Wittebolle, Emile J., assignor.)
Porter, Edward C., Morenci, Ariz. Slime-concentrator. No. 1,024,359; Apr. 23; Sp. p. 5541; Gaz. vol. 177; p. 971.
Porter, Edwin S., assignor of one-half to F. B. Cannock, New York, N. Y. Kinetoscope. No. 1,041,345; Oct. 15; Gaz. vol. 183; p. 631.
Porter, Edwin S., assignor of one-half to F. B. Cannock, New York, N. Y. Lens-adjuster. No. 1,041,346; Oct. 15; Gaz. vol. 183; p. 632.
Porter, Eli, Lawrence, Mass. Combination-padlock. No. 1,028,960; June 11; Sp. p. 1938; Gaz. vol. 179; p. 334.
Porter, Frank S. (See White, Hubert C., assignor.)
Porter, George. (See Bamberger and Porter.)
Porter, George, assignor to Parker Manufacturing Company, Boston, Mass. Casing for thermostatic instruments. No. 1,021,888; Apr. 2; Sp. p. 292; Gaz. vol. 177; p. 48.
Porter, Hallet M. (See Platt, Samuel L., assignor.)
Porter, James B., Kansas City, Mo. Oyster-fork. No. 1,028,961; June 11; Sp. p. 1940; Gaz. vol. 179; p. 335.
Porter, James M., Pittsburgh, Pa. Paving brick or block. No. 1,034,033; July 30; Gaz. vol. 180; p. 1239.
Porter, James R., London, England. Airship. No. 1,016,359; Feb. 6; Sp. p. 270; Gaz. vol. 175; p. 42.
Porter, James S., Buffalo, N. Y. Bottle-stopper. No. 1,026,963; May 21; Sp. p. 4160; Gaz. vol. 178; p. 709.
Porter, John C., St. Louis, Mo. Rotary motor. No. 1,036,902; Aug. 27; Gaz. vol. 181; p. 949.
Porter, John C., St. Louis, Mo. Rotary motor. No. 1,046,490; Dec. 10; Gaz. vol. 185; p. 279.
Porter, Louis N., assignor of one-half to J. A. McKeen, Blair, Nebr. Heating apparatus for incubators. No. 1,047,444; Dec. 17; Gaz. vol. 185; p. 641.
Porter, Orson K., assignor to Oregon Fruit Cleaner Company, The Dalles, Oreg. Fruit-grader. No. 1,043,249; Nov. 5; Gaz. vol. 184; p. 72.
Porter, Richard L., Vicksburg, Miss. Mail-crane. No. 1,017,902; Feb. 20; Sp. p. 3724; Gaz. vol. 175; p. 648.
Porter, Robert L., and G. D. Watson, Los Angeles, Cal. Well-drilling tool. No. 1,019,357; Mar. 5; Sp. p. 807; Gaz. vol. 176; p. 121.
Porter, Ross, and L. Krueger, Neodesha, Kans. Hose-nozzle and sprayer. No. 1,016,173; Jan. 30; Sp. p. 6739; Gaz. vol. 174; p. 1172.
Porter, William A. V., New York, N. Y. Combined packing and display carton. No. 1,018,726; Feb. 27; Sp. p. 5552; Gaz. vol. 175; p. 961.
Porter, William F., Hartford, Conn. Blacking-dauber. No. 1,018,339; Feb. 20; Sp p. 4636; Gaz. vol. 175; p. 797.
Porter, Wilson E., assignor to New Haven Clock Co., New Haven, Conn. Escapement mechanism for watches and marine clocks. No. 1,033,465; July 23; Gaz. vol. 180; p. 1018.
Porter, Wilson E., assignor to New Haven Clock Co., New Haven, Conn. Alarm-clock. No. 1,034,141; July 30; Gaz. vol. 180; p. 1274.
Porter, Wilson E., assignor to New Haven Clock Co., New Haven, Conn. Clock. No. 1,037,527; Sept. 3; Gaz. vol. 182; p. 119.
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Porzel, Joseph, Buffalo, N. Y. Making radiators. No. 1,019,916; Mar. 12; Sp. p. 1954; Gaz. vol. 176; p. 339.
Porzig, Kurt, Glauchau, Germany. Velocipede-stand. No. 1,042,820; Oct. 29; Gaz. vol. 183; p. 1196.
Posey, William S., Frettin, assignor of one-half to T. S. Pryse, Dawson, N. D. Rotary plow. No. 1,025,764; May 7; Sp. p. 1447; Gaz. vol. 178; p. 227.
Positive Rail Anchor Company. (See Betts, Benjamin B., assignor.)
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Pospisil, Rudolph E., Menominee, Mich. Sugar process. No. 1,028,272; June 4; Sp. p. 458; Gaz. vol. 179; p. 67.
Posson, Edward, Chicago, Ill. Railway-car. No. 1,013,310; Jan. 2; Sp. p. 497; Gaz. vol. 174; p. 78.
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Posson, Edward, Chicago, Ill. End door-framing for cars. No. 1,016,954; Feb. 13; Sp. p. 1609; Gaz. vol. 175; p. 283.
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Posson, Edward, assignor to National Dump Car Company, Chicago, Ill. Roof-door for cars. No. 1,015,397; Jan. 23; Sp. p. 5096; Gaz. vol. 174; p. 878.
Posson, Edward, assignor to National Dump Car Company, Chicago, Ill. Underframe for railway-cars. No. 1,037,049; Aug. 27; Gaz. vol. 181; p. 1000.
Posson, Edward, assignor to Camel Company, Chicago, Ill. Roof-frame for cars. No. 1,025,996; May 14; Sp. p. 1978; Gaz. vol. 178; p. 341.
Posson, Edward, assignor to Camel Company, Chicago, Ill. Car-roof construction. No. 1,026,698; May 21; Sp. p. 3536; Gaz. vol. 178; p. 616.
Posson, Edward, assignor to Q. & H. Company, Chicago, Ill. Car-door hasp-fastener. No. 1,028,273; June 4; Sp. p. 459; Gaz. vol. 179; p. 67.
Possons, Minard A., Cleveland, Ohio, assignor to American Stove Company, St. Louis, Mo. Gas-burner. No. 1,032,860; July 16; Gaz. vol. 180; p. 777.
Post, Frank H., Webb, Iowa. Music-leaf turner. No. 1,014,173; Jan. 9; Sp. p. 2401; Gaz. vol. 174; p. 402.
Post, Hans A. von, assignor to Aktiebolaget Pyro, Stockholm, Sweden. Stove and lamp. No. 1,022,048; Apr. 2; Sp. p. 630; Gaz. vol. 177; p. 100.
Post, Henry S., Escanaba, Mich. Handle-attaching device. No. 1,013,438; Jan. 2; Sp. p. 765; Gaz. vol. 174; p. 122
Post, John H., Flanagan, Ill. Four-horse equalizer. No. 1,037,310; Sept. 3; Gaz. vol. 182; p. 44.
Post & Lester Company, The. (See Lester, Howard W., assignor.)
Post, Thomas R., Wilmington, N. C. Dating-stamp. No. 1,032,769; July 16; Gaz. vol. 180; p. 747.
Post, Valta T., Como, Tex. Plow attachment. No. 1,023,678; Apr. 16; Sp. p. 4065; Gaz. vol. 177; p. 713.
Post, William C., Estherville, Iowa. Wire-fastener. No. 1,028,962; June 11; Sp. p. 1941; Gaz. vol. 179; p. 335.
Post, Willis H., assignor to Postum Cereal Company, Limited, Battle Creek, Mich. Beverage extract. No. 1,031,962; July 9; Gaz. vol. 180; p. 429.
Postans, Arthur J., Brentford, England. Stropping-machine for razors. No. 1,021,795; Apr. 2; Sp. p. 79; Gaz. vol. 177; p. 17.
Postans, Arthur J., assignor to The Adder Cash Register Syndicate, Limited, London, England. Printing mechanism for cash-registers or like machines. No. 1,033,928; July 30; Gaz. vol. 180; p. 1199.
Postlethwait, Isaac, New Mayville, Pa. Tie and rail-fastener. No. 1,043,539; Nov. 5; Gaz. vol. 184; p. 177.
Poston, Burton C., Chillicothe, Ohio. Baling-press. No. 1,017,168; Feb. 13; Sp. p. 2083; Gaz. vol. 175; p. 358.
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Potdevin, Adolph, assignor to Potdevin Machine Company, Brooklyn, N. Y. Machine for applying paste to labels, &c. No. 1,040,009; Oct. 1; Gaz. vol. 183; p. 112.
Potdevin Machine Company. (See Potdevin, Adolph, assignor.)
Potteiger, Albert S., Reading, Pa. Puzzle. No. 1,044,241; Nov. 12; Gaz. vol. 184; p. 449.
Pottel, Carl, Halle-on-the-Saale, Germany. Injector. No. 1,016,772; Feb. 6; Sp. p. 1216; Gaz. vol. 175; p. 187.
Pottel, Carl, Halle-on-the-Saale, Germany. Intermittent grip device for lubricating apparatus. No. 1,021,475; Mar. 26; Sp. p. 5274; Gaz. vol. 176; p. 951.
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Potter, Charles F., Woodhaven, N. Y. Double-walled enamel-lined container. No. 1,041,347; Oct. 15; Gaz. vol. 183; p. 632.
Potter, Charles P., Boston, Mass. Card-index system. No. 1,032,082; July 9; Gaz. vol. 180; p. 467.
Potter, Edward E., San Francisco, Cal. Vehicle wheel attachment. No. 1,043,250; Nov. 5; Gaz. vol. 184; p. 72.
Potter, Frank B., Connellsville, Pa. Sewing-machine attachment. No. 1,023,095; Apr. 9; Sp. p. 2853; Gaz. vol. 177; p. 485.
Potter, Frank O., Torrington, Conn. Mechanic's apron. No. 1,018,078; Feb. 20; Sp. p. 4112; Gaz. vol. 175; p. 708.
Potter, George M. (See Mulholland and West, assignors.)
Potter, George T. (See Pritchard and Potter.)
Potter, Harry J., Newton, assignor to Dennison Manufacturing Company, Boston, Mass. Attaching device. No. 1,027,431; May 28; Sp. p. 5171; Gaz. vol. 178; p. 906.
Potter, Henry N., New Rochelle, N. Y., assignor to G. Westinghouse, Pittsburgh, Pa. Carbosilicon. No. 1,030,327; June 25; Sp. p. 4948; Gaz. vol. 179; p. 882.
Potter, Henry N., Hollywood, Cal. Apparatus for the recovery of precious metals. No. 1,030,490; June 25; Sp. p. 5307; Gaz. vol. 179; p. 941.
Potter, James C., Pawtucket, R. I. Combined bale-breaker, automatic feeder, and opener. No. 1,015,764; Jan. 23; Sp. p. 5889; Gaz. vol. 174; p. 1004.
Potter, James C., Pawtucket, R. I. Carding-machine. No. 1,015,835; Jan. 30; Sp. p. 6036; Gaz. vol. 174; p. 1054.
Potter, James C., Pawtucket, R. I. Gearing for lathe-spindles. No. 1,038,787; Sept. 17; Gaz. vol. 182; p. 614.
Potter, James C., Providence, R. I. Turret-slide-operating mechanism for automatic turret-lathes. No. 1,040,751; Oct. 8; Gaz. vol. 183; p. 399.
Potter, James C., assignor to Potter & Johnston Machine Co., Pawtucket, R. I. Evener for cotton-opening and other cotton-working machines. No. 1,015,508; Jan. 23; Sp. p. 5336; Gaz. vol. 174; p. 915.
Potter, James C., assignor to Potter & Johnston Machine Co., Pawtucket, R. I. Opener and lap-machine. No. 1,015,834; Jan. 30; Sp. p. 6035; Gaz. vol. 174; p. 1054.
Potter, James C., assignor to Potter & Johnston Machine Co., Pawtucket, R. I. Bar-turning tool. No. 1,028,605; June 4; Sp. p. 1176; Gaz. vol. 179; p. 180.
Potter, James C., assignor to Potter & Johnston Machine Co., Pawtucket, R. I. Automatic cross-slide-operating means. No. 1,034,506; Aug. 6; Gaz. vol. 181; p. 36.
Potter, James C., Providence, assignor to Potter & Johnston Machine Company, Pawtucket, R. I. Piston-ring-turning attachment for turret-lathes. No. 1,026,455; May 14; Sp. p. 3017; Gaz. vol. 178; p. 497.
Potter, James C., and J. Johnston, assignors to Potter and Johnston Machine Company, Pawtucket, R. I. Metal-working machine. No. 1,038,434; Sept. 10; Gaz. vol. 182; p. 457.
Potter, John A., Los Angeles, Cal. Process and apparatus for recovering metals from their ores. No. 1,026,999; May 21; Sp. p. 4226; Gaz. vol. 178; p. 721.
Potter & Johnston Machine Co. (See Potter, James C., assignor.)
Potter and Johnston Machine Company. (See Potter and Johnston, assignors.)
Potter, Joseph L., Indianapolis, Ind. Excavating and conveying apparatus. No. 1,018,359; Feb. 20; Sp. p. 4672; Gaz. vol. 175; p. 803.
Potter, Joseph L., Indianapolis, Ind. Aerial-cable hoister and conveyer. No. 1,018,360; Feb. 20; Sp. p. 4678; Gaz. vol. 175; p. 804.
Potter, Joseph L., Indianapolis, Ind. Hoisting and conveying apparatus. No. 1,042,264; Oct. 22; Gaz. vol. 183; p. 975.
Potter, Justus G., Brooklyn, N. Y. Making imitation gold-leaf. No. 1,023,960; Apr. 23; Sp. p. 4706; Gaz. vol. 177; p. 835.
Potter, Nathaniel R., Rochester, N. Y. Safety starting device. No. 1,043,142; Nov. 5; Gaz. vol. 184; p. 33.
Potter, Ruth L., Chicago, Ill. Dressing-comb. No. 1,025,156; May 7; Sp. p. 96; Gaz. vol. 178; p. 17.
Potter, Thomas I., Portland, Oreg. Computing-machine. No. 1,035,047; Aug. 6; Gaz. vol. 181; p. 215.
Potter, Thomas I., Portland, Oreg. Calculating-machine. No. 1,035,101; Aug. 6; Gaz. vol. 181; p. 234.
Potter, William B., Schenectady, N. Y., assignor to General Electric Company. Alternating-current-motor control. No. 1,041,868; Oct. 22; Gaz. vol. 183; p. 844.
Potter, William H., Philadelphia, Pa. Draft-rigging. No. 1,020,445; Mar. 19; Sp. p. 3044; Gaz. vol. 176; p. 551.
Potter, Winfield S., New York, N. Y. Manufacture of sheets and plates of manganese steel. No. 1,017,903; Feb. 20; Sp. p. 3726; Gaz. vol. 175; p. 649.
Potter, Winfield S., New York, N. Y. Producing rolled shapes of manganese steel. No. 1,017,904; Feb. 20; Sp. p. 3727; Gaz. vol. 175; p. 649.
Potter, Winfield S., New York, N. Y. Production of sheets and plates of manganese steel. No. 1,017,905; Feb. 20; Sp. p. 3730; Gaz. vol. 175; p. 649.
Potter, Winfield S., New York, N. Y. Producing wrought shapes of manganese steel. No. 1,017,906; Feb. 20; Sp. p. 3732; Gaz. vol. 175; p. 650.

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Potter, Winfield S., New York, N. Y. Manufacture of sheets or plates of manganese steel. No. 1,017,908; Feb. 20; Sp. p. 3738; Gaz. vol. 175; p. 650.
Potter, Winfield S., New York, N. Y. Heat treatment and rolling of manganese steel. No. 1,018,000; Feb. 20; Sp. p. 3935; Gaz. vol. 175; p. 680.
Potter, Winfield S., New York, N. Y. Manufacture of sheets or plates of manganese steel. No. 1,018,002; Feb. 20; Sp. p. 3938; Gaz. vol. 175; p. 681.
Potter, Winfield S., New York, N. Y. Making wrought manganese-steel car-wheels. No. 1,018,364; Feb. 20; Sp. p. 4688; Gaz. vol. 175; p. 805.
Potter, Winfield S., New York, N. Y. Making carbon-steel car-wheels. No. 1,018,365; Feb. 20; Sp. p. 4692; Gaz. vol. 175; p. 805.
Potter, Winfield S., New York, N. Y. Production of wrought shapes of manganese steel. No. 1,018,367; Feb. 20; Sp. p. 4697; Gaz. vol. 175; p. 806.
Potter, Winfield S., New York, N. Y. Heat treatment of large manganese-steel shapes. No. 1,018,368; Feb. 20; Sp. p. 4700; Gaz. vol. 175; p. 807.
Potter, Winfield S., New York, N. Y. Manufacture of manganese-steel wire. No. 1,018,369; Feb. 20; Sp. p. 4702; Gaz. vol. 175; p. 807.
Potter, Winfield S., New York, N. Y., assignor to Alloy Steel Forging Company, Wilmington, Del. Machining manganese steel. No. 1,018,001; Feb. 20; Sp. p. 3937; Gaz. vol. 175; p. 681.
Potter, Winfield S., New York, N. Y., assignor to Alloy Steel Forging Company, Wilmington, Del. Manufacture of pins, links, and the like from manganese steel. No. 1,018,361; Feb. 20; Sp. p. 4682; Gaz. vol. 175; p. 804.
Potter, Winfield S., New York, N. Y., assignor to Alloy Steel Forging Company, Wilmington, Del. Production of manganese-steel forgings. No. 1,018,362; Feb. 20; Sp. p. 4684; Gaz. vol. 175; p. 805.
Potter, Winfield S., New York, N. Y., assignor to Alloy Steel Forging Company, Wilmington, Del. Manufacture of chains. No. 1,018,363; Feb. 20; Sp. p. 4686; Gaz. vol. 175; p. 805.
Potter, Winfield S., New York, N. Y., assignor to Alloy Steel Forging Company, Wilmington, Del. Production of machined shapes of manganese steel. No. 1,018,366; Feb. 20; Sp. p. 4696; Gaz. vol. 175; p. 806.
Potter, Winfield S., New York, N. Y., assignor to Alloy Steel Forging Company, Wilmington, Del. Manufacture of perforated plates of manganese steel. No. 1,018,370; Feb. 20; Sp. p. 4705; Gaz. vol. 175; p. 807.
Potter-Winslow Co. (See Macdonough, George H., assignor.)
Potter's Sulphide Ore Treatment Limited. (See Greenway, Thomas J., assignor.)
Potts, Emery E., assignor of one-half to W. Stradtner, Dalton City, Ill. Dinner-pail. No. 1,046,642; Dec. 10; Gaz. vol. 185; p. 333.
Potts, James W., assignor of one-half to W. T. Kessels, St. Joseph, Mo. Vault-cover. No. 1,020,845; Mar. 19; Sp. p. 3917; Gaz. vol. 176; p. 685.
Potts, Louis M., assignor, by mesne assignments, to A. McLanahan, Baltimore, Md. Method of and apparatus for transmitting signals over telegraphic circuits. No. 1,017,169; Feb. 13; Sp. p. 2086; Gaz. vol. 175; p. 359.
Potts, Louis M., assignor, by mesne assignments, to A. McLanahan, Baltimore, Md. Perforating-machine. No. 1,018,519; Feb. 27; Sp. p. 5111; Gaz. vol. 175; p. 891.
Potts, Samuel W., New York, N. Y., assignor to The Bristol Company, Waterbury, Conn. Setback-counter. No. 1,015,710; Jan. 23; Sp. p. 5779; Gaz. vol. 174; p. 985.
Potvin, Eddie J., Moosup, Conn. Drawing-board. No. 1,040,010; Oct. 1; Gaz. vol. 183; p. 113.
Potvin, Emile J., Cheboygan, Mich. Shifting mechanism for hatchway-covers. No. 1,018,777; Feb. 27; Sp. p. 5666; Gaz. vol. 175; p. 979.
Potwin, William S. (See Desmond, John, assignor.)
Poulnot, Walter A., New York, N. Y. Fabric-tightener for bed-bottoms and the like. No. 1,016,579; Feb. 6; Sp. p. 805; Gaz. vol. 175; p. 120.
Pouring Cork Company. (See Jackson, Clarence S., assignor.)
Pourtauborde, Ernest L., assignor to Société des Onyx du Sidi-Hamza et des Pyrénées, Paris, France. Cutting-out and molding machine. No. 1,017,461; Feb. 13; Sp. p. 2733; Gaz. vol. 175; p. 460.
Povlotzky, Philip, Chicago, Ill. Machine for vending liquid perfumery. No. 1,032,423; July 16; Gaz. vol. 180; p. 629.
Powell, Albert E., Darwen, England. Garden-edge tile. No. 1,015,584; Jan. 23; Sp. p. 5507; Gaz. vol. 174; p. 942.
Powell, Albert M., Worcester, Mass. Metal-planing machine. No. 1,013,439; Jan. 2; Sp. p. 767; Gaz. vol. 174; p. 122.
Powell, Andrew, Uniontown, Pa. Machine for operating coal-punches. No. 1,017,017; Feb. 13; Sp. p. 1744; Gaz. vol. 175; p. 304.
Powell, Andrew, Uniontown, Pa. Mine-car loader. No. 1,017,018; Feb. 13; Sp. p. 1745; Gaz. vol. 175; p. 304.
Powell, Athol L., Alamo, Tenn. Grain harvester and binder. No. 1,023,035; Apr. 9; Sp. p. 2718; Gaz. vol. 177; p. 464.
Powell, Edwin L., New Orleans, La. Wood-preserving compound. No. 1,036,706; Aug. 27; Gaz. vol. 181; p. 886.
Powell, Elmer K., Steubenville, Ohio. Horseshoe. No. 1,019,358; Mar. 5; Sp. p. 809; Gaz. vol. 176; p. 122.
Powell, Eugene H. (See Turner, Lewis G., assignor.)
Powell, Frank, Los Angeles, Cal. Splice-bar. No. 1,037,795; Sept. 3; Gaz. vol. 182; p. 206.
Powell, Frank D., Lowell, Mass., assignor to American Coin Register Company, Chicago, Ill. Telephone signaling apparatus. No. 1,045,077; Nov. 19; Gaz. vol. 184; p. 768.
Powell, Frederick. (See Coulter and Powell.)
Powell, Homer B., Palmer, W. Va. Wire-stretcher. No. 1,037,529; Sept. 3; Gaz. vol. 182; p. 119.
Powell, Leighton, U. S. Army. Sign. No. 1,039,187; Sept. 24; Gaz. vol. 182; p. 764.
Powell, Milton C., St. Joseph, Mo. Kitchen-cabinet. No. 1,032,861; July 16; Gaz. vol. 180; p. 778.
Powell, Rawley H., Grafton, W. Va. Internal-combustion engine. No. 1,029,398; June 11; Sp. p. 2909; Gaz. vol. 179; p. 486.
Powell, Samuel L., *et al.* (See Matthews, Robert E., assignor.)
Powell, Thomas H., New York, N. Y. Harness-saddle. No. 1,037,982; Sept. 10; Gaz. vol. 182; p. 305.
Powell, Walter C., Newark, Ohio. Sealing-machine. No. 1,036,332; Aug. 20; Gaz. vol. 181; p. 726.
Powell, William H. (See Lewis and Powell.)
Powell, William H., Chicago, Ill. Shoe-fastening device. No. 1,020,658; Mar. 19; Sp. p. 3519; Gaz. vol. 176; p. 620.
Powell, William H., and R. B. Williamson, Milwaukee, Wis., assignors to Allis-Chalmers Company. Dynamo-electric machine. No. 1,028,963; June 11; Sp. p. 1942; Gaz. vol. 179; p. 335.
Powelsen, Charles L., Sharon, Pa. Hydraulic valve. No. 1,024,909; Apr. 30; Sp. p. 6814; Gaz. vol. 177; p. 1198.
Powelsen, Charles L., assignor of one-half to C. Schauweker, Sharon, Pa. Rotary valve. No. 1,024,908; Apr. 30; Sp. p. 6812; Gaz. vol. 177; p. 1198.
Power, Jeffrey J., Madison, Wis., assignor of one-half to L. W. Stevens, Chicago, Ill. Rotary discharging apparatus. No. 1,033,929; July 30; Gaz. vol. 180; p. 1200.
Power, John, Pueblo, Colo. Ingot-mold. No. 1,036,333; Aug. 20; Gaz. vol. 181; p. 726.
Power, John A., Babylon, N. Y. Evaporating apparatus. No. 1,028,777; June 4; Sp. p. 1525; Gaz. vol. 179; p. 237.
Power, Michael, assignor of twenty-five one-hundredths to R. H. Bowes and twenty-four one-hundredths to R. G. Dickson, Toronto, Ontario, Canada. Window-ventilator. No. 1,022,870; Apr. 9; Sp. p. 2386; Gaz. vol. 177; p. 408.
Power, Michael J., Nekoosa, Wis. Wrapping-machine. No. 1,026,049; May 14; Sp. p. 2110; Gaz. vol. 178; p. 358.
Power & Mining Machinery Company. (See Bernhard and Niedermeyer, assignors.)
Power and Mining Machinery Company. (See Wintzer, Rudolf, assignor.)
Power, Nicholas, Brooklyn, N. Y. Perforating-machine. No. 1,031,468; July 2; Gaz. vol. 180; p. 216.
Power Plant Engineering Co. (See Bates, Frank H., assignor.)
Power Specialty Company. (See Foster, Pell W., assignor.)
Power Washing Machine Co. (See Altorfer, Alpheus W., assignor.)
Powers, Charles F., Thomson, N. Y. Machine for thickening paper-pulp. No. 1,046,108; Dec. 3; Gaz. vol. 185; p. 106.
Powers, David W., Edgewood, Cal. Damper. No. 1,034,507; Aug. 6; Gaz. vol. 181; p. 36.
Powers, Francis S., assignor to C. and J. Schmittke, Detroit, Mich. Clothes-reel. No. 1,020,446; Mar. 19; Sp. p. 3046; Gaz. vol. 176; p. 551.
Powers, Henry K., Kittanning, Pa. Rail-fastening means for railway-ties. No. 1,029,458; June 11; Sp. p. 3026; Gaz. vol. 179; p. 506.
Powers, James, Newark, N. J., and J. G. Schofield, Washington, D. C. Tool for applying glaziers' points. No. 1,028,778; June 4; Sp. p. 1526; Gaz. vol. 179; p. 238.
Powers, James E., Ashland, Kans. Shoveling or waste-preventing board. No. 1,043,356; Nov. 5; Gaz. vol. 184; p. 112.
Powers, John, Los Angeles, Cal. Door-lock fastener. No. 1,020,157; Mar. 12; Sp. p. 2456; Gaz. vol. 176; p. 418.
Powers, John T. (See Wood and Powers.)
Powers, Patrick W., assignor to W. W. Lee, deceased, Northampton, Mass.; H. Lee, administratrix. Manufacturing embossed steel-handled implements of steel. No. 1,020,158; Mar. 12; Sp. p. 2458; Gaz. vol. 176; p. 418.

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Powers, William A., Topeka, Kans. Hot-water washing and refilling system for locomotive-boilers. No. 1,023,441; Apr. 16; Sp. p. 3597; Gaz. vol. 177; p. 639.
Powles, James W. (See Lathrop and Powles.)
Pownall, William A. (See Hickox and Pownall.)
Powyszenski, Frank, Chicago, Ill. Removable heel. No. 1,029,220; June 11; Sp. p. 2493; Gaz. vol. 179; p. 424.
Poyart, René F. A. (See Levy-Maurice and Poyart.)
Poyser, Edward I., Cassopolis, Mich. Silo. No. 1,041,159; Oct. 15; Gaz. vol. 183; p. 569.
Pozzi, Aloysius, Trenton, N. J. Car-fender. No. 1,015,633; Jan. 23; Sp. p. 5615; Gaz. vol. 174; p. 960.
Prache, Charles L., assignor to La Société d'Exploitation de Procédés Evaporatoires, Système Prache et Bouillon, Paris, France. Evaporating apparatus. No. 1,020,659; Mar. 19; Sp. p. 3520; Gaz. vol. 176; p. 620.
Prack, Henry, Ottawa, Ill. Tool for removing insulation from wires. No. 1,019,835; Mar. 12; Sp. p. 1762; Gaz. vol. 176; p. 309.
Prack, Henry, Ottawa, Ill. Cooling device for trolley-wheels. No. 1,027,756; May 28; Sp. p. 5809; Gaz. vol. 178; p. 1012.
Prack, Henry, Ottawa, Ill. Trolley-wheel. No. 1,033,344; July 23; Gaz. vol. 180; p. 979.
Prack, Henry, Ottawa, Ill. Trolley-wheel. No. 1,033,345; July 23; Gaz. vol. 180; p. 979.
Practical Display Rack Company, The. (See Hughes, Frank J., assignor.)
Prahar, Lester L. (See Prahar, Louis B. and L. L.)
Prahar, Lester L., New York, N. Y. Bag-jaw fastener. No. 1,039,188; Sept. 24; Gaz. vol. 182; p. 765.
Prahar, Louis B., Massapequa, N. Y. Bag-fastener. No. 1,023,170; Apr. 16; Sp. p. 3071; Gaz. vol. 177; p. 550.
Prahar, Louis B., Massapequa, N. Y. Bag-fastener. No. 1,030,789; June 25; Sp. p. 6202; Gaz. vol. 179; p. 1048.
Prahar, Louis B., Massapequa, N. Y. Bag-jaw. No. 1,035,902; Aug. 20; Gaz. vol. 181; p. 576.
Prahar, Louis B., Massapequa, N. Y. Bag-fastener. No. 1,039,189; Sept. 24; Gaz. vol. 182; p. 765.
Prahar, Louis B., Massapequa, and L. L. Prahar, New York, N. Y. Frame for hand-bags, pocket-books, and the like. No. 1,029,221; June 11; Sp. p. 2494; Gaz. vol. 179; p. 424.
Prahar, Robert L., Massapequa, N. Y. Pin-guard. No. 1,018,131; Feb. 20; Sp. p. 4227; Gaz. vol. 175; p. 727.
Prahar, Robert L., Massapequa, N. Y. Bag-jaw fastener. No. 1,025,157; May 7; Sp. p. 97; Gaz. vol. 178; p. 18.
Prahar, Robert L., Massapequa, N Y. Bag-jaw fastener. No. 1,032,770; July 16; Gaz. vol. 180; p. 745.
Prahl, William. (See Seehafer and Prahl.)
Prall, Ralph T. (See Gordon and Prall.)
Prana Gesellschaft für Tageslicht-Projektion mit Beschränkter Haftung. (See Buechner, Albert O., assignor.)
Prange, Maurice N., Detroit, Mich. Clutch. No. 1,020,778; Mar. 19; Sp. p. 3780; Gaz. vol. 176; p. 662.
Prankard, Charles J., Jr., Troy, N. Y. Dampening-machine. No. 1,027,275; May 21; Sp. p. 4835; Gaz. vol. 178; p. 815.
Praray, Joseph A., and H. S. Greene, assignors to Woonsocket Napping Machinery Co., Woonsocket, R. I. Napping-machine drum. No. 1,016,174; Jan. 30; Sp. p. 6740; Gaz. vol. 174; p. 1172.
Prater, Samuel J., Clifton, Tenn. Churn attachment. No. 1,042,964; Oct. 29; Gaz. vol. 183; p. 1244.
Prater, William I., Jasper, Ga. Adjustable subsoil attachment. No. 1,028,274; June 4; Sp. p. 460; Gaz. vol. 179; p. 67.
Prather, Edna R. (See Turner, Rose R., assignor.)
Prather, Frank M., Los Angeles, Cal. Pneumatic power transmission. No. 1,036,334; Aug. 20; Gaz. vol. 181; p. 727.
Prather, Joseph L., Fresno, Cal. Steering-wheel. No. 1,026,122; May 14; Sp. p. 2285; Gaz. vol. 178; p. 385.
Prator, Ernest P., Leeper, Mo. Door-check. No. 1,041,869; Oct. 22; Gaz. vol. 183; p. 845.
Pratt, Alphonso C., Montclair, N. J. Machine for making link mesh. No. 1,028,904; June 11; Sp. p. 1819; Gaz. vol. 179; p. 316.
Pratt, Alphonso C., Montclair, N. J. Chain-making machine. No. 1,033,466; July 23; Gaz. vol. 180; p. 1018.
Pratt, Alphonso C., Newark, N. J., assignor to General Electric Company. Bearing for turbines. No. 1,017,588; Feb. 13; Sp. p. 2966; Gaz. vol. 175; p. 501.
Pratt, Arthur D., New York, N. Y., assignor to The Babcock & Wilcox Company, Bayonne, N. J. Superheater-boiler. No. 1,047,698; Dec. 17; Gaz. vol. 185; p. 733.
Pratt & Cady Company, The (See Hayden, George W., assignor.)
Pratt, Charles R., Montclair, N. J. Controlling mechanism for motors. No. 1,048,999; Dec. 31; Gaz. vol. 185; p. 1243.
Pratt, Charles R., Montclair, N. J., assignor to The Universal Speed Control Company. Pump. No. 1,019,521; Mar. 5; Sp. p. 1177; Gaz. vol. 176; p. 175.
Pratt, Charles R., Montclair, assignor to Otis Elevator Company, Jersey City, N. J. Quick-acting safety device. No. 1,040,578; Oct. 8; Gaz. vol. 183; p. 337.
Pratt, Charles R., Montclair, assignor to Otis Elevator Company, Jersey City, N. J. Speed control. No. 1,049,000; Dec. 31; Gaz. vol. 185; p. 1244.
Pratt, Charles T., Frankfort, N. Y. Armoring device. No. 1,042,477; Oct. 29; Gaz. vol. 183; p. 1076.
Pratt, Charles T., Frankfort, N. Y. Forming a spirally-wound tube No. 1,046,851; Dec. 10; Gaz. vol. 185; p. 406.
Pratt, Frederick W. (See Jones, Arthur J., assignor.)
Pratt, Howard V. (See Singer and Pratt.)
Pratt, Howell D., Philadelphia, Pa., assignor to Link-Belt Company, Chicago, Ill. Feeding mechanism for conveyers. No. 1,023,036; Apr. 9; Sp. p. 2723; Gaz. vol. 177; p. 465.
Pratt, Joseph. (See Norton and Pratt.)
Pratt, L. S. (See Bellhouse, Thomas F., assignor.)
Pratt & Lambert. (See Hodge, Sheldon, assignor.)
Pratt-Low Preserving Co. (See Lane, Enoch J., assignor.)
Pratt, Nathaniel P., assignor to Pratt Process Company, Atlanta, Ga. Treatment of phosphates. No. 1,014,254; Jan. 9; Sp. p. 2594; Gaz. vol. 174; p. 433.
Pratt, Nathaniel P., assignor to Pratt Process Company, Decatur, Ga. Treatment of phosphates. No. 1,014,255; Jan. 9; Sp. p. 2596; Gaz. vol. 174; p. 433.
Pratt, Philip W., Boston, Mass. Elastic tire. No. 1,037,311; Sept. 3; Gaz. vol. 182; p. 44.
Pratt Process Company. (See Pratt, Nathaniel P., assignor.)
Pratt, Robert J. (See Kimball and Pratt.)
Pratt, Ross H., Seattle, Wash. Skirt-band fastener. No. 1,043,866; Nov. 12; Gaz. vol. 184; p. 319.
Pratt, Sedgwick, Piedmont, Cal. Developing apparatus. No. 1,039,190; Sept. 24; Gaz. vol. 182; p. 765.
Pratt, Sedgwick, Piedmont, Cal Photo-exposure meter. No. 1,039,191; Sept. 24; Gaz. vol. 182; p. 766.
Pratt & Whitney Company. (See Echols, Francis G., assignor.)
Pratt & Whitney Company. (See Goodrich, Clarence L., assignor.)
Pratt & Whitney Company. (See Hanson, Bengt M. W., assignor.)
Pratt & Whitney Company. (See Hanson and Henrikson, assignors.)
Pratt, William E. (See Van Fleet, Alfred, assignor.)
Pratt, William H., Lynn, Mass., assignor to General Electric Company. Bearing for electric meters. No. 1,022,503; Apr. 9; Sp. p. 1581; Gaz. vol. 177; p. 283.
Pratt, William H., Lynn, Mass., assignor to General Electric Company. Device for measuring time intervals. No. 1,023,593; Apr. 9; Sp. p. 1774; Gaz. vol. 177; p. 312.
Pratt, Wilson D. (See Brenner and Pratt.)
Pratzner, Jules V., New Haven, Conn. Combined tire-holder and trunk. No. 1,013,564; Jan. 2; Sp. p. 1027; Gaz. vol. 174; p. 165.
Preacher, Henry M., Brunson, S. C. Aerial railway. No. 1,047,699; Dec. 17; Gaz. vol. 185; p. 734.
Preble, Edwin N., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Sole-pressing machine. No. 1,048,579; Dec. 31; Gaz. vol. 185; p. 1096.
Preble, George L., Lynn, Mass. Insole. No. 1,018,132; Feb. 20; Sp. p. 4228; Gaz. vol. 175; p. 727.
Preble, George L., Lynn, Mass. Making insoles. No. 1,022,391; Apr. 2; Sp. p. 1323; Gaz. vol. 177; p. 215.
Precision Glass Grinding Machine Company. (See Olsen, Simon D., assignor.)
Predock, George E., and C. E. Anderson, St. Louis, Mo. Pressure-regulating device. No. 1,016,519; Feb. 6; Sp. p. 661; Gaz. vol. 175; p. 99.
Preis, George, Cambridge, Mass. Spring-gun. No. 1,030,535; June 25; Sp. p. 5447; Gaz. vol. 179; p. 957.
Preiswerk, Ernst, and E. Grether, assignors to Society of Chemical Industry in Basle, Basel, Switzerland. Allyl derivative of barbituric acid and making same. No. 1,042,265; Oct. 22; Gaz. vol. 183; p. 975.
Prellwitz, William, Easton, Pa., assignor to Ingersoll-Rand Company, New York, N. Y. Hammer-drill. No. 1,015,509; Jan. 23; Sp. p. 5338; Gaz. vol. 174; p. 916.
Prellwitz, William, Easton, Pa., assignor to Ingersoll-Rand Company, New York, N. Y. Unloader for fluid-compressors. No. 1,019,359; Mar. 5; Sp. p. 810; Gaz. vol. 176; p. 122.
Prellwitz, William, Easton, Pa., assignor to Ingersoll-Rand Company, New York, N. Y. Unloader for compound fluid-compressors. No. 1,019,360; Mar. 5; Sp. p. 816; Gaz. vol. 176; p. 122.
Prellwitz, William, Easton, Pa., assignor to Ingersoll-Rand Company, New York, N. Y. Mounting for air-feed drills. No. 1,019,361; Mar. 5; Sp. p. 821; Gaz. vol. 176; p. 123.
Prellwitz, William, Easton, Pa., assignor to Ingersoll-Rand Company, New York, N. Y. Dust-collector for drills. No. 1,023,594; Apr. 16; Sp. p. 3915; Gaz. vol. 177; p. 689.
Prellwitz, William, Easton, Pa., assignor to Ingersoll-Rand Company, New York, N. Y. Mounting for mining tools or machines. No. 1,023,595; Apr. 16; Sp. p. 3917; Gaz. vol. 177; p. 689.

Alphabetical list of patentees—Continued.

Prellwitz, William, Easton, Pa., assignor to Ingersoll-Rand Company, New York, N. Y. Unloader for fluid-compressors. No. 1,027,757; May 28; Sp. p. 5811; Gaz. vol. 178; p. 1013.
Prellwitz, William, Easton, Pa., assignor to Ingersoll-Rand Company, New York, N. Y. Unloader for compound fluid-compressors. No. 1,027,758; May 28; Sp. p. 5816; Gaz. vol. 178; p. 1013.
Prellwitz, William, Easton, Pa., assignor to Ingersoll-Rand Company, New York, N. Y. Support for mining tools or machines. No. 1,027,759; May 28; Sp. p. 5821; Gaz. vol. 178; p. 1013.
Prellwitz, William, Easton, Pa., assignor to Ingersoll-Rand Company, New York, N. Y. Unloader for fluid-compressors. No. 1,027,760; May 28; Sp. p. 5822; Gaz. vol. 178; p. 1014.
Premoshis, John M., Forbes Road, Pa. Frog for trolleys. No. 1,017,462; Feb. 13; Sp. p. 2735; Gaz. vol. 175; p. 461.
Prendergast, Alois P., and J. J. Tatum, Baltimore, Md. Draft-rigging for cars. No. 1,017,108; Feb. 13; Sp. p. 1963; Gaz. vol. 175; p. 337.
Prendergast, John, New York, N. Y. Bedstead. No. 1,021,701; Mar. 26; Sp. p. 5693; Gaz. vol. 176; p. 1025.
Prentice, Archibald, Toronto, Ontario, Canada. Hinge. No. 1,035,125; Aug. 6; Gaz. vol. 181; p. 240.
Prentice Bros. Company. (See Hendrickson, Fred K., assignor.)
Prentice Bros. Company. (See Newton, Albert E., assignor.)
Prentice, George D., Milwaukee, Wis. Keg-rinser. No. 1,015,585; Jan. 23; Sp. p. 5508; Gaz. vol. 174; p. 942.
Prentice, George E., assignor to Traut and Hine Manufacturing Company, New Britain, Conn. Cast-off. No. 1,018,079; Feb. 20; Sp. p. 4113; Gaz. vol. 175; p. 709.
Prentice, John A. (See Meiser, Jesse A., assignor.)
Prentice, William A. and W. H., Worcester, Mass. Miter-box. No. 1,035,466; Aug. 13; Gaz. vol. 181; p. 391.
Prentice, William H. (See Prentice, William A. and W. H.)
Prentiss, Frank S. R., San Francisco, Cal. Dust-collector for vacuum-cleaners. No. 1,029,562; June 11; Sp. p. 3235; Gaz. vol. 179; p. 542.
Prenzel, Adam H., Halifax, Pa., assignor to United Shoe Machinery Company, Paterson, N. J. Adjustable work-support and gage for channeling-machines. (Reissue.) No. 13,375; Feb. 27; Sp. p. 6191; Gaz. vol. 175; p. 1064.
Prenzel, Adam H., Halifax, Pa., assignor to United Shoe Machinery Company, Paterson, N. J. Channeling-machine. No. 1,030,536; June 25; Sp. p. 5449; Gaz. vol. 179; p. 957.
Prenzel, Adam H., Halifax, Pa., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for embossing heels on shoes. No. 1,030,608; June 25; Sp. p. 5705; Gaz. vol. 179; p. 984.
Prenzel, Adam H., Halifax, Pa., assignor to United Shoe Machinery Company, Paterson, N. J. Making shoes. No. 1,030,609; June 25; Sp. p. 5707; Gaz. vol. 179; p. 984.
Prenzel, Adam H., Halifax, Pa., assignor to United Shoe Machinery Company, Paterson, N. J. Shoe. No. 1,031,196; July 2; Gaz. vol. 180; p. 124.
Prenzel, Adam H., Halifax, Pa., assignor to United Shoe Machinery Company, Paterson, N. J. Making shoes. (Reissue.) No. 13,447; July 23; Gaz. vol. 180; p. 1117.
Prenzel, Adam H., Halifax, Pa., assignor to United Shoe Machinery Company, Paterson, N. J. Shoe. (Reissue.) No. 13,448; July 23; Gaz. vol. 180; p. 1118.
Prenzel, Adam H., Halifax, Pa., assignor to L. C. Tappey, Boston, Mass. Tie or bow. No. 1,043,357; Nov. 5; Gaz. vol. 184; p. 112.
Prenzlau, Louis, Hamburg, Germany. Preserving perishable goods. No. 1,045,178; Nov. 26; Gaz. vol. 184; p. 831.
Preschlin, Paul E., Schladern-on-the-Sieg, Germany. Equalizing device for printing-machines. No. 1,044,242; Nov. 12; Gaz. vol. 184; p. 449.
Prescott, Charles F., Sunnyside, Wash. Pump. No. 1,019,700; Mar. 5; Sp. p. 1504; Gaz. vol. 176; p. 233.
Prescott Company, The. (See Disch, Theodore, assignor.)
Prescott, De Witt C., Chicago, Ill. Sawmill setting and receding mechanism. No. 1,038,788; Sept. 17; Gaz. vol. 182; p. 614.
Prescott, Frederick M., and E. P. Worden, Milwaukee, assignors to Fred M. Prescott Steam Pump Company, West Allis, Wis. Steam-engine. No. 1,033,930; July 30; Gaz. vol. 180; p. 1200.
Prescott, Frederick M., and E. P. Worden, Milwaukee, assignors to Fred M. Prescott Steam Pump Company, West Allis, Wis. Air-cushion for pumps. No. 1,035,386; Aug. 13; Gaz. vol. 181; p. 364.
Prescott, Jerry A., Steele, N. D. Dental disk-holder. No. 1,018,340; Feb. 20; Sp. p. 4637; Gaz. vol. 175; p. 797.
Prescott, Jesse, Webster, Mass. Gas-mixer. No. 1,031,817; July 9; Gaz. vol. 180; p. 379.
Prescott, Perley R., West Berlin, Mass. Speed-controller for steam-pumps. No. 1,023,171; Apr. 16; Sp. p. 3073; Gaz. vol. 177; p. 550.
Prescott, Samuel J. (See Nosworthy and Prescott.)
Presley, Jasper N., Sardis, Tenn. Ball-bearing washer. No. 1,030,125; June 18; Sp. p. 4468; Gaz. vol. 179; p. 772.
Presley, William J., Grand Haven, Mich. Starter for internal-combustion engines. No. 1,044,081; Nov. 12; Gaz. vol. 184; p. 394.
Presmont, Arthur N., Shamokin, Pa. Stocking. No. 1,025,643; May 7; Sp. p. 1204; Gaz. vol. 178; p. 185.
Press, Abraham, Norwood, Ohio, assignor to The Bullock Electric Manufacturing Company. Brush for dynamo-electric machines. No. 1,028,964; June 11; Sp. p. 1945; Gaz. vol. 179; p. 336.
Press, Gabriel G., Hollowayville, Ill. Envelop-pad. No. 1,019,275; Mar. 5; Sp. p. 586; Gaz. vol. 176; p. 94.
Pressed Steel Car Company. (See Lindström, Charles A., assignor.)
Pressed Steel Car Company. (See Lindström and Streib, assignors.)
Pressed Steel Car Company. (See Lockwood, Burns D., assignor.)
Pressed Steel Truck Company. (See Wood, Pinckney A., assignor.)
Presser, Ernst. (See Baldauf and Presser.)
Presser, Ernst, assignor to Gesellschaft für elektrotechnische Industrie, mit beschränkter Haftung, Berlin, Germany. Closing of seams of tubes by means of electrical resistance welding. No. 1,031,026; July 2; Gaz. vol. 180; p. 62.
Presser, John P., Hamilton, assignor of one-half to H. G. Von Heine, Baltimore, Md. Bottle-closure. No. 1,049,316; Dec. 31; Gaz. vol. 185; p. 1352.
Pressey, Burt J., Newport News, Va. Aeroplane. No. 1,038,435; Sept. 10; Gaz. vol. 182; p. 457.
Pressman, William, New York, N. Y. Reversible vest. No. 1,047,700; Dec. 17; Gaz. vol. 185; p. 734.
Prest-O-Lite Company, The. (See Skinner, Oramel H., assignor.)
Presthye, Abraham H., Kalispell, Mont. Hydraulic stump-puller. No. 1,029,510; June 11; Sp. p. 3122; Gaz. vol. 179; p. 524.
Presto Electrical Manufacturing Company, The. (See Shoenberg, Milton H., assignor.)
Presto Spinning Ring Holder Company. (See Pierce, George L., assignor.)
Preston, Albert F., Boston, Mass., assignor, by mesne assignments, to United Shoe Machinery Company, Paterson, N. J. Machine for making and driving fasteners. No. 1,030,829; June 25; Sp. p. 6374; Gaz. vol. 179; p. 1064.
Preston, Andrew W., *et al.*, trustees. (See McMullen, George B., assignor.)
Preston, Andrew W., *et al.*, trustees. (See McMullen, George W. and G. B., assignors.)
Preston, Andrew W., *et al.*, trustees. (See Roberts, John H., assignor.)
Preston, Henry C. and O., Hornell, N. Y. Carpet-beater. No. 1,015,634; Jan. 23; Sp. p. 5617; Gaz. vol. 174; p. 961.
Preston, James F. (See Allen, Edward A., assignor.)
Preston, John C., Sydney, New South Wales, Australia. Vaporizer for hydrocarbon-vapor lamps and stoves. No. 1,031,369; July 2; Gaz. vol. 180; p. 182.
Preston, Leonard Z., Topeka, Kans. Tilting-gate mechanism. No. 1,014,174; Jan. 9; Sp. p. 2403; Gaz. vol. 174; p. 403.
Preston, Leonard Z., Topeka, Kans. Tilting gate. No. 1,040,752; Oct. 8; Gaz. vol. 183; p. 399.
Preston, Othniel. (See Preston, Henry C. and O.)
Preston, William A. (See Duffie and Preston.)
Preus, Frederick C., Newark, N. J. Sawyer's clamp. No. 1,029,222; June 11; Sp. p. 2496; Gaz. vol. 179; p. 424.
Preuss, Max, New York, N. Y. Coupling. No. 1,046,328; Dec. 3; Gaz. vol. 185; p. 184.
Previn, Arthur G., New York, N. Y., assignor to Baseballeon Inc. Projecting apparatus. No. 1,034,833; Aug. 6; Gaz. vol. 181; p. 145.
Prevost, Frank. (See Driscoll, Con, assignor.)
Preyer, Frederick W., Canton, Ohio. Spinning-top. No. 1,020,660; Mar. 19; Sp. p. 3522; Gaz. vol. 176; p. 621.
Pribil, Alexis R., Detroit, Mich., assignor to The Automatic Platen Press Company, New York, N. Y. Printing-machine. No. 1,014,175; Jan. 9; Sp. p. 2405; Gaz. vol. 174; p. 403.
Pribil, Alexis R., assignor to Penberthy Injector Co., Detroit, Mich. Lubricator. No. 1,032,502; July 16; Gaz. vol. 180; p. 655.
Pribnow, John F., Mellen, Wis. Saw-swage. No. 1,016,091; Jan. 30; Sp. p. 6598; Gaz. vol. 174; p. 1146.
Price, Abraham, Treorchy, and W. Pryse, Triorchy, near Pontypridd, England. Detonator. No. 1,047,985; Dec. 24; Gaz. vol. 185; p. 858.
Price, Abraham, and W. Pryse, Treorky, Pontypridd, England. Shield for detonators which are used in shot-firing in mines of all kinds and in quarries. No. 1,049,143; Dec. 31; Gaz. vol. 185; p. 1292.
Price, Alfred, assignor of one-half to F. Rademacher, Los Angeles, Cal. Combination gate and by-pass valve. No. 1,020,159; Mar. 12; Sp. p. 2459; Gaz. vol. 176; p. 418.
Price, Alfred J. (See Richards and Price.)

Alphabetical list of patentees—Continued.

Price-Campbell Cotton Picker Corporation. (See Calderwood, Benjamin C., assignor.)
Price-Campbell Cotton Picker Corporation. (See White, Bruce C., assignor.)
Price-Campbell Cotton Picker Corporation. (See White and Campbell, assignors.)
Price, Charles P., Malden, Mass., assignor, by mesne assignments, to Bituminous Road Implement Company. Machine for coating or mixing mineral aggregate with bituminous material. No. 1,019,522; Mar. 5; Sp. p. 1183; Gaz. vol. 176; p. 176.
Price, Edgar, Schenectady, N. Y., assignor to General Electric Company. Electrically-controlled brake. No. 1,022,001; Apr. 2; Sp. p. 539; Gaz. vol. 177; p. 84.
Price, Edgar, Schenectady, N. Y., assignor to General Electric Company. Electromagnet. No. 1,028,385; June 4; Sp. p. 697; Gaz. vol. 179; p. 106.
Price, Edwin F., assignor to The Ohio Manufacturing Company, Upper Sandusky, Ohio. Transmission-gearing. No. 1,013,565; Jan. 2; Sp. p. 1028; Gaz. vol. 174; p. 165.
Price, Frank G. S., Glasgow, Scotland. Consolidating previously-mixed materials in molds. No. 1,032,424; July 16; Gaz. vol. 180; p. 629.
Price, Frank M., *et al.* (See Edwards, Isaac L., assignor.)
Price, George A. (See Weaver and Price.)
Price, George E., St. Louis, Mo. Pressing and finishing iron. No. 1,045,179; Nov. 26; Gaz. vol. 184; p. 831.
Price, George O. (See Cookingham and Price.)
Price, George S., assignor of one-half to L. A. Young, Detroit, Mich. Upholstering-machine. No. 1,028,779; June 4; Sp. p. 1531; Gaz. vol. 179; p. 238.
Price, George T. (See King and Price.)
Price, George T. (See Zellers and Price.)
Price, Grover C., St. Elmo, Tenn. Saw-set. No. 1,022,871; Apr. 9; Sp. p. 2388; Gaz. vol. 177; p. 408.
Price, Harry, Boston, Mass. Pressing-machine. No. 1,027,502; May 28; Sp. p. 5304; Gaz. vol. 178; p. 929.
Price, Henry J., Niagara, Wis. Hook. No. 1,045,882; Dec. 3; Gaz. vol. 185; p. 30.
Price, Isaac T., Holton, Kans. Oscillating engine. No. 1,023,098; Apr. 23; Sp. p. 4997; Gaz. vol. 177; p. 883.
Price, John H. (See Whittington, Joseph H., assignor.)
Price, Joseph H., Fort Worth, Tex. Air-cycle. No. 1,013,952; Jan. 9; Sp. p. 1932; Gaz. vol. 174; p. 328.
Price, Lester T. (See Grover, Charles A., assignor.)
Price, Max C., assignor to Hill-Independent Mfg. Co., Muskegon, Mich. Hand-stamp. No. 1,025,019; Apr. 30; Sp. p. 7033; Gaz. vol. 177; p. 1235.
Price, Mitchell D., Miami, Fla. Wheel. No. 1,045,743; Nov. 26; Gaz. vol. 184; p. 1031.
Price, Robert L., and G. A. Delaplain, Collegeport, Tex. Sliding doors for show-cases. No. 1,032,702; July 16; Gaz. vol. 180; p. 725.
Price, Samuel J., *et al.* (See Beene, John L., assignor.)
Price, Scott E., Logansport, Ind. Fruit-picker. No. 1,045,322; Nov. 26; Gaz. vol. 184; p. 881.
Price, Thomas J., Oblong, Ill. Drinking-fountain. No. 1,023,874; Apr. 23; Sp. p. 4495; Gaz. vol. 177; p. 805.
Price, Waldow P., assignor of one-half to J. E. Ireland, Des Moines, Iowa. Awning-arm. No. 1,021,330; Mar. 26; Sp. p. 4926; Gaz. vol. 176; p. 900.
Price, William G., New Castle, Pa. Brake-beam support. No. 1,028,386; June 4; Sp. p. 699; Gaz. vol. 179; p. 106.
Price, William G., New Castle, Pa. Journal-bearing. No. 1,032,159; July 9; Gaz. vol. 180; p. 493.
Price, William G., New Castle, Pa. Brake-shoe fastener. No. 1,044,243; Nov. 12; Gaz. vol. 184; p. 450.
Price, William G., New Castle, Pa. Brake-shoe controller. No. 1,045,180; Nov. 26; Gaz. vol. 184; p. 832.
Price, William W., Dayton, Ohio. Packing-ring. No. 1,020,115; Mar. 12; Sp. p. 2365; Gaz. vol. 176; p. 404.
Prichard, Channing, Seattle, Wash. Time mechanism for operating valves, switches, and the like. No. 1,047,563; Dec. 17; Gaz. vol. 185; p. 685.
Prickett, Cecil, Reeding, Okla. Cotton-chopper. No. 1,015,341; Jan. 23; Sp. p. 4979; Gaz. vol. 174; p. 859.
Priddat, Ernst F., Chicago, Ill. Package-carrier and advertising device. No. 1,028,489; June 4; Sp. p. 943; Gaz. vol. 179; p. 141.
Priddle, Arthur, San Francisco, Cal. Corner-protector. No. 1,025,424; May 7; Sp. p. 694; Gaz. vol. 178; p. 110.
Priddle, Arthur, San Francisco, Cal. Corner-protector. No. 1,038,195; Sept. 10; Gaz. vol. 182; p. 373.
Pride, John P., Leicester, England, assignor to United Shoe Machinery Company, Paterson, N. J. Jack for shoe-machines. No. 1,030,012; June 18; Sp. p. 4229; Gaz. vol. 179; p. 733.
Pride, John P., and A. Bates, Leicester, England, assignors to United Shoe Machinery Company, Paterson, N. J. Machine for use in the manufacture of boots and shoes. No. 1,019,085; Mar. 5; Sp. p. 169; Gaz. vol. 176; p. 28.
Prideaux, William D., Weymouth, England. Hypodermic or other syringe. No. 1,039,591; Sept. 24; Gaz. vol. 182; p. 908.
Pridgen, Wiley H., Creek, N. C. Automatic feed for woodworking-machines. No. 1,033,732; July 23; Gaz. vol. 180; p. 1105.
Pridmore, Edward A., La Grange, Ill. Molding-machine. No. 1,027,066; May 21; Sp. p. 4406; Gaz. vol. 178; p. 745.
Priebe, Herman C., Blue Island, Ill. Car-door. No. 1,040,011; Oct. 1; Gaz. vol. 183; p. 113.
Priem, Paul, Heidenheim-on-the-Brenz, Germany. Wood-grinder. No. 1,030,919; July 2; Gaz. vol. 180; p. 23.
Pries, Herman, Michigan City, Ind. Car-roof. No. 1,027,503; May 28; Sp. p. 5307; Gaz. vol. 178; p. 930.
Priest, Augustus F., Chicago, Ill. Spring-wheel for vehicles. No. 1,022,754; Apr. 9; Sp. p. 2158; Gaz. vol. 177; p. 370.
Priest, Augustus F., Chicago, Ill. Vehicle-wheel. No. 1,030,610; June 25; Sp. p. 5710; Gaz. vol. 179; p. 984.
Priest, Corydon A., West Farmington, Me. Grafting-tool. No. 1,042,965; Oct. 29; Gaz. vol. 183; p. 1245.
Priest, Edward D., Schenectady, N. Y., assignor to General Electric Company. Dynamo-electric machine. No. 1,014,904; Jan. 16; Sp. p. 4046; Gaz. vol. 174; p. 684.
Priest, George W., Newton, Mass. Apparatus for manufacturing varnish for coating leather. No. 1,027,563; May 28; Sp. p. 5432; Gaz. vol. 178; p. 950.
Priest, Harry R., Loudonville, Ohio. Demonstrating device. No. 1,034,297; July 30; Gaz. vol. 180; p. 1329.
Priest, Randel, Ames, Colo. Folding shipping-crate. No. 1,020,447; Mar. 19; Sp. p. 3047; Gaz. vol. 176; p. 552.
Priester, Charles. (See Roemer, George W., assignor.)
Priester, Charles J., Hackensack, N. J., assignor of one-third to H. L. Rosenthal, New York, N. Y. Machine for piling textile fabrics. No. 1,025,719; May 7; Sp. p. 1352; Gaz. vol. 178; p. 210.
Priester, Charles J., Hackensack, N. J., assignor of one-third to H. L. Rosenthal, New York, N. Y. Machine for piling textile fabrics. No. 1,029,316; June 11; Sp. p. 2700; Gaz. vol. 179; p. 458.
Priestley, Charles M. E., assignor to Société Vedovelli, Priestley et Compagnie, Paris, France. Suspension-chain for high-pressure electric transmission-lines. No. 1,039,799; Oct. 1; Gaz. vol. 183; p. 44.
Priestman, Albert, Philadelphia, Pa. Air-flushing apparatus. No. 1,048,206; Dec. 24; Gaz. vol. 185; p. 932.
Prilliman, William A., Henry, Va. Plow. No. 1,036,903; Aug. 27; Gaz. vol. 181; p. 950.
Primbs, Maxmillian E., and P. J. Bittner, Reserve township, Allegheny county, Pa. Ironing-table. No. 1,019,523; Mar. 5; Sp. p. 1187; Gaz. vol. 176; p. 176.
Prime, Daniel N., Lynn, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Die for cutting sheet material. No. 1,018,520; Feb. 27; Sp. p. 5116; Gaz. vol. 175; p. 891.
Primm, John Q., Lincoln, Ill. Automobile-truck. No. 1,037,312; Sept. 3; Gaz. vol. 182; p. 44.
Primos, Joseph, Hammond, La. Bench-dog. No. 1,023,679; Apr. 16; Sp. p. 4066; Gaz. vol. 177; p. 713.
Primrose, John, New York, N. Y. Steam-superheating apparatus for locomotives. No. 1,037,313; Sept. 3; Gaz. vol. 182; p. 45.
Prince, Adonis M., Wilmington, N. C., and L. Coscia, Memphis, Tenn. Pump-piston. No. 1,018,208; Feb. 20; Sp. p. 4387; Gaz. vol. 175; p. 753.
Prince, Charles H., New York, N. Y. Metal-working shears. No. 1,046,852; Dec. 10; Gaz. vol. 185; p. 406.
Prince, John D., New York, N. Y. Locking-washer for nuts and bolts. No. 1,043,721; Nov. 5; Gaz. vol. 184; p. 238.
Prince, Otho, Cambridge, Ohio. Car-fender. No. 1,021,702; Mar. 26; Sp. p. 5694; Gaz. vol. 176; p. 1025.
Prindle, Henry U., assignor to Planetary Machinery Company, Incorporated, San Francisco, Cal. Mixing-machine. No. 1,039,192; Sept. 24; Gaz. vol. 182; p. 766.
Prindle, Edwin J., Washington, D. C., assignor, by mesne assignments, to United Shoe Machinery Company, Paterson, N. J. Last-lathe. No. 1,017,798; Feb. 20; Sp. p. 3468; Gaz. vol. 175; p. 610.
Prindle, Edwin J., East Orange, assignor to United Shoe Machinery Company, Paterson, N. J. Last and shoe-treeing machine. No. 1,030,206; June 18; Sp. p. 4652; Gaz. vol. 179; p. 800.
Prindle, Harry M., Boston, assignor to A. H. Hildreth, trustee, Cambridge, Mass. Developing photographic plates and films. No. 1,029,511; June 11; Sp. p. 3123; Gaz. vol. 179; p. 524.
Prindle, Harry M., Boston, assignor to A. H. Hildreth, trustee, Cambridge, Mass. Developing photographic plates and films. No. 1,029,512; June 11; Sp. p. 3124; Gaz. vol. 179; p. 524.
Pringle, Arthur D., South Brownsville, Pa. Rail-fastening for concrete ties. No. 1,032,939; July 16; Gaz. vol. 180; p. 802.
Pringle, Frank W., Mears, Mich. Wrench. No. 1,029,944; June 18; Sp. p. 4099; Gaz. vol. 179; p. 711.
Prins, Raphael J., Chicago, Ill. Handle. No. 1,022,380; Apr. 2; Sp. p. 1304; Gaz. vol. 177; p. 211.
Print Check Co. (See Dodge, Merton L., assignor.)
Prinz, Faustin, Milwaukee, Wis. Feed-regulator. No. 1,027,432; May 28; Sp. p. 5173; Gaz. vol. 178; p. 906.
Prior, Matthew, Watertown, Mass. Cotton picker or harvester. No. 1,038,956; Sept. 17; Gaz. vol. 182; p. 672.
Prior, Robert H., Esom Hill, Ga. Cotton-seed planter. No. 1,044,082; Nov. 12; Gaz. vol. 184; p. 395.

Alphabetical list of patentees—Continued.

Priseler, Myron W., and R. W. Rusterholz, Chicago, Ill. Heat-insulated bucket. No. 1,041,669; Oct. 15; Gaz. vol. 183; p. 738.
Prisk, Thomas J. and W. H., Johnstown, Pa. Arc-lamp. No. 1,016,773; Feb. 6; Sp. p. 1218; Gaz. vol. 175; p. 187.
Prisk, William H. (See Prisk, Thomas J. and W. H.)
Pritchard, Albert R., Rochester, N. Y. Tubular lantern. No. 1,015,398; Jan. 23; Sp. p. 5097; Gaz. vol. 174; p. 878.
Pritchard, Albert R., Rochester, N. Y. Tubular lantern. No. 1,026,699; May 21; Sp. p. 3539; Gaz. vol. 178; p. 617.
Pritchard, Albert R., Rochester, N. Y. Spout for kettles. No. 1,032,771; July 16; Gaz. vol. 180; p. 748.
Pritchard, Albert R., Rochester, N. Y. Lantern. No. 1,032,772; July 16; Gaz. vol. 180; p. 748.
Pritchard, Albert R., Rochester, assignor of one-half to The Lisk Manufacturing Company, Limited, Canandaigua, and one-half to Pritchard Stamping Company, Rochester, N. Y. Handle for coal-hods and the like. No. 1,048,733; Dec. 31; Gaz. vol. 185; p. 1151.
Pritchard, Carl B., Everson, and G. T. Potter, Connellsville, Pa., assignors of one-third to O. L. Marquet, Wellsburg, W. Va. Car-wheel. No. 1,013,513; Jan. 2; Sp. p. 922; Gaz. vol. 174; p. 148.
Pritchard, Carl G., Warren, Ohio. Composing-machine. No. 1,029,317; June 11; Sp. p. 2705; Gaz. vol. 179; p. 458.
Pritchard, Humphrey O., Cardiff, Md. Anchor-plate. No. 1,035,102; Aug. 6; Gaz. vol. 181; p. 234.
Pritchard Stamping Company *et al.* (See Pritchard, Albert R., assignor.)
Pritchard, William C., Lancaster, Pa. Register for pumps. No. 1,027,151; May 21; Sp. p. 4598; Gaz. vol. 178; p. 772.
Pritchett, Horace E., Niantic, Ill. Distributing-hopper. No. 1,038,957; Sept. 17; Gaz. vol. 182; p. 672.
Pritchett, James M., assignor of one-half to J. V. Smith, Vincennes, Ind. Automobile-trunk. No. 1,035,048; Aug. 6; Gaz. vol. 181; p. 215.
Pritham, Henry C., assignor to The Union Metallic Cartridge Company, Bridgeport, Conn. Priming mixture. No. 1,048,207; Dec. 24; Gaz. vol. 185; p. 933.
Pritzkow, Malle L., assignor to The Malle Little Grip Company, Philadelphia, Pa. Barrette. No. 1,027,668; May 28; Sp. p. 5642; Gaz. vol. 178; p. 984.
Proal, Arthur B., Jr., Nutley, N. J., assignor to Robins Conveying Belt Company, New York, N. Y. Conveying and sorting device. No. 1,046,853; Dec. 10; Gaz. vol. 185; p. 406.
Probasco, Abraham B., Turtle Creek township, Warren county, Ohio. Tool for forming wire-joints. No. 1,031,963; July 9; Gaz. vol. 180; p. 429.
Probst, Alfred H., Chicago, Ill., assignor to B. E. Van Auken. Valve. No. 1,039,068; Sept. 17; Gaz. vol. 182; p. 705.
Probst, William F. (See Hertenstein and Probst.)
Prochnow, Louis A., Ann Arbor, Mich. Feeder and grit-separator. No. 1,019,185; Mar. 5; Sp. p. 395; Gaz. vol. 176; p. 63.
Proctor, Albert E., Bellingham, Wash. Saw-swage. No. 1,045,078; Nov. 19; Gaz. vol. 184; p. 769.
Proctor, Charles S., N. Loftus, and J. Anderson, Beckley, W. Va. Core retainer or lifter. No. 1,038,436; Sept. 10; Gaz. vol. 182; p. 458.
Proctor, Francis M., Garfield, Ga. Pea-planter. No. 1,040,753; Oct. 8; Gaz. vol. 183; p. 399.
Proctor, Frederick F., Jr. (See Bedini, Jean, assignor.)
Proctor, George R., Grand View, Idaho. Irrigation-regulator. No. 1,028,780; June 4; Sp. p. 1532; Gaz. vol. 179; p. 238.
Proctor, John H., Minneapolis, Minn. Marking and grooving tool. No. 1,025,302; May 7; Sp. p. 421; Gaz. vol. 178; p. 68.
Proctor, William E. (See Trewent and Proctor.)
Procunier, William L., Chicago, Ill. Bit and tap and die chuck. No. 1,037,796; Sept. 3; Gaz. vol. 182; p. 206.
Producers Limited. (See Southey, Alfred W., assignor.)
Proebstel, Julius C., Portland, Oreg. Harness-snap. No. 1,016,360; Feb. 6; Sp. p. 271; Gaz. vol. 175; p. 42.
Proeger, Luis W., Pittsburgh, Pa. Forming necks for hollow glassware. No. 1,035,387; Aug. 13; Gaz. vol. 181; p. 365.
Proessler, Conrad. (See Schroeder, Adam C., assignor.)
Proffitt, Wilber, and G. H. Brooks, Mars, Pa. Automatic gas-shut-off valve. No. 1,034,298; July 30; Gaz. vol. 180; p. 1329.
Proper, W. L., *et al.* (See Krag, Erik L., assignor.)
Prosser, Frederick J., Cleveland, Ohio. Combined chair and rail-joint. No. 1,042,266; Oct. 22; Gaz. vol. 183; p. 975.
Prosser, Howard E., Seymour, Wis. Filing system. No. 1,033,193; July 23; Gaz. vol. 180; p. 928.
Prosser, John E., assignor to P. Arbon, Tulsa, Okla. Swivel-jar wire-rope socket. No. 1,045,883; Dec. 3; Gaz. vol. 185; p. 30.
Prosser, Joseph F., assignor of one-half to L. Caul, Cleveland, Ohio. Hydraulic motor. No. 1,026,177; May 14; Sp. p. 2392; Gaz. vol. 178; p. 403.
Prothro, Adolphus. (See Galbraith, Robert M., assignor.)
Prött, Carl H., Rheydt, Germany. Device for spraying liquids and moistening air. No. 1,024,281; Apr. 23; Sp. p. 5412; Gaz. vol. 177; p. 947.
Protz, Hugo E., Sparta, Wis. Hasp-hook. No. 1,023,680; Apr. 16; Sp. p. 4067; Gaz. vol. 177; p. 714.
Proudfit, William S., Jr., Chicago, Ill. Loose-leaf binder. No. 1,037,314; Sept. 3; Gaz. vol. 182; p. 45.
Proudfit, William S., Jr., Chicago, Ill. Loose-leaf binder. No. 1,037,315; Sept. 3; Gaz. vol. 182; p. 45.
Proudfoot, Robert L., Richwood, W. Va. Car-door hanger. No. 1,047,701; Dec. 17; Gaz. vol. 185; p. 734.
Proulx, Ernest E., Willimansett, Mass. Engine. No. 1,046,220; Dec. 3; Gaz. vol. 185; p. 146.
Providence Machine Company. (See Peirce, William C., assignor.)
Providence Silk Hosiery Company. (See Staton, William, assignor.)
Prowett, James, Philadelphia, Pa. Bottle seal or closure. No. 1,042,267; Oct. 22; Gaz. vol. 183; p. 976.
Prowett, James, Philadelphia, Pa. Milk-bottle closure. No. 1,048,341; Dec. 24; Gaz. vol. 185; p. 977.
Prudden and Company, W. K. (See Brink, Charles L., assignor.)
Pruden, Clarence D., Baltimore, Md. Portable sheet-metal house. No. 1,016,032; Jan. 30; Sp. p. 6462; Gaz. vol. 174; p. 1124.
Pruden, Henry B., assignor, by mesne assignments, to R. F. Myers, trustee, Dayton, Ohio. Sewing-machine. No. 1,017,463; Feb. 13; Sp. p. 2736; Gaz. vol. 175; p. 461.
Pruden, John B., Quanah, Tex. Cut-off. No. 1,018,925; Feb. 27; Sp. p. 5967; Gaz. vol. 175; p. 1028.
Pruess, Frederick W., Whitelaw, Wis. Cattle-stanchion. No. 1,023,757; Apr. 16; Sp. p. 4198; Gaz. vol. 177; p. 737.
Prugh, Harry H., *et al.* (See Kohnle, Frederick, assignor.)
Prugh, John H., assignor to American Floor Surfacing Machine Company, Toledo, Ohio. Floor-surfacing machine. No. 1,032,023; July 9; Gaz. vol. 180; p. 448.
Prunier, Emile A., and L. Hertenbein, Neuilly, France. Dish-cleaner. No. 1,045,079; Nov. 19; Gaz. vol. 184; p. 769.
Pruyn, Frederic. (See Nuckols and Pruyn.)
Pryke, Robert C., Omaha, Nebr. Rotatable chocolate-cooler. No. 1,033,931; July 30; Gaz. vol. 180; p. 1201.
Pryor, Edward, Baltimore, Md. Fifth-wheel for vehicles. No. 1,016,580; Feb. 6; Sp. p. 808; Gaz. vol. 175; p. 120.
Pryor, George W., Greenville, Ga. Device for screening seed. No. 1,045,435; Nov. 26; Gaz. vol. 184; p. 921.
Pryse, Thomas S. (See Posey, William S., assignor.)
Pryse, William. (See Price and Pryse.)
P'sareas, Georje, and N. Balezos, Holyoke, Mass. Steam-engine. No. 1,016,955; Feb. 13; Sp. p. 1612; Gaz. vol. 175; p. 284.
P'silander, Charles A., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Dynamo-electric machine. No. 1,013,216; Jan. 2; Sp. p. 277; Gaz. vol. 174; p. 44.
Public Service Cup Company. (See Claussen and Claus, assignors.)
Puckett, Hugh J. (See Lucas and Bauer, assignors.)
Puckett, Hugh J., and V. Lucas, Kansas City, Mo. Grain-drying apparatus. No. 1,039,440; Sept. 24; Gaz. vol. 182; p. 853.
Pudney, Maud E., Finsbury Park, England. Apparatus for displaying advertisements. No. 1,036,707; Aug. 27; Gaz. vol. 181; p. 886.
Puetz, Charles, Kansas City, Mo. Paste-jar. No. 1,048,873; Dec. 31; Gaz. vol. 185; p. 1200.
Pugh, Cortez V., assignor of four-eighteenths to E. Brockschmitt, four-eighteenths to A. A. Van Cleave, and four-eighteenths to J. Schulz, St. Louis, Mo. Grip-tread and mud-shoe for automobiles. No. 1,028,490; June 4; Sp. p. 944; Gaz. vol. 179; p. 141.
Pugh, Edward D., assignor to The Damascus Brake Beam Co., Cleveland, Ohio. Adjustable brake-head. No. 1,013,311; Jan. 2; Sp. p. 499; Gaz. vol. 174; p. 78.
Pugh, John V., Allesley, England. Manufacture of wire-spoked rims. No. 1,030,428; June 25; Sp. p. 5163; Gaz. vol. 179; p. 919.
Pugh, John V., Allesley, England. Detachable wheel. No. 1,031,583; July 2; Gaz. vol. 180; p. 254.
Pugh, John V., Allesley, England. Wire-spoked wheel. No. 1,047,702; Dec. 17; Gaz. vol. 185; p. 734.
Pugsley, William E., Grand Rapids, Mich. Go-cart. No. 1,027,896; May 28; Sp. p. 6192; Gaz. vol. 178; p. 1062.
Pulifici, Emidio, Magliano Sabino, Italy. Manually-operated hay and straw press. No. 1,043,358; Nov. 5; Gaz. vol. 184; p. 113.
Pulit, Joseph, New Haven, Conn. Curtain-pole. No. 1,015,068; Jan. 16; Sp. p. 4403; Gaz. vol. 174; p. 740.
Pullen, Herbert A., Buffalo, N. Y. Dental regulator. No. 1,023,273; Apr. 16; Sp. p. 3280; Gaz. vol. 177; p. 586.
Pulliam, Oswald S., assignor to Pittsburgh Equipment Company, Pittsburgh, Pa. Car-truck side frame. No. 1,023,481; Apr. 16; Sp. p. 3680; Gaz. vol. 177; p. 652.
Pulliam, Oswald S., assignor to Pittsburgh Equipment Company, Pittsburgh, Pa. End sill for cars. No. 1,044,818; Nov. 19; Gaz. vol. 184; p. 679.

Alphabetical list of patentees—Continued.

Pulliam, Oswald S., assignor to Pittsburgh Steel Foundry Company, Pittsburgh, Pa. Side-frame construction. No. 1,048,874; Dec. 31; Gaz. vol. 185; p. 1200.
Pulliam, William T., Tuscola, Ill. Wind-motor. No. 1,025,720; May 7; Sp. p. 1358; Gaz. vol. 178; p. 211.
Pullman Company, The. (See Schneider, Max M., assignor.)
Pumpelly, Lemuel A., Lowe, Kans. Trap. No. 1,044,083; Nov. 12; Gaz. vol. 184; p. 395.
Pumphrey, Walter H., New York, N. Y., assignor to Boston Talking Machine Company. Talking-machine. No. 1,026,178; May 14; Sp. p. 2395; Gaz. vol. 178; p. 403.
Puppe, Henry, Nebraska City, Nebr. File or like tool. No. 1,035,736; Aug. 13; Gaz. vol. 181; p. 481.
Purat, Hugo, Bridgeport, Conn. Curtain-pole. No. 1,021,555; Mar. 26; Sp. p. 5434; Gaz. vol. 176; p. 978.
Purcell, George W., Toledo, Ohio, assignor, by mesne assignments, to G. H. McKillip. Combined mop holder and wringer. No. 1,028,491; June 4; Sp. p. 945; Gaz. vol. 179; p. 142.
Purcell, Jesse S., and J. M. Walker, Alabama City, Ala. Switch. No. 1,037,170; Aug. 27; Gaz. vol. 181; p. 1040.
Purcell, John J., Burke, Idaho. Automatic turning device for fluid hammer-drills. No. 1,028,275; June 4; Sp. p. 462; Gaz. vol. 179; p. 68.
Purcell, William F., New York, N. Y. Brush. No. 1,032,565; July 16; Gaz. vol. 180; p. 676.
Purchas, Fred A., and A. W. Chapin, McGraw, N. Y.; said Chapin assignor to said Purchas. Egg-case. No. 1,014,414; Jan. 9; Sp. p. 2946; Gaz. vol. 174; p. 489.
Purdy, Cyrus B., Minatare, Nebr. Lever. No. 1,027,761; May 28; Sp. p. 5827; Gaz. vol. 178; p. 1014.
Purdy, Jarvis C. (See McKay, James D., assignor.)
Purdy, John, New York, assignor to The Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 1,023,172; Apr. 16; Sp. p. 3074; Gaz. vol. 177; p. 550.
Purdy, John, New York, assignor to The Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 1,025,644; May 7; Sp. p. 1204; Gaz. vol. 178; p. 185.
Purdy, Simeon D., assignor of one-half to T. S. Simms and Company, Limited, St. John, New Brunswick, Canada. Brush. No. 1,031,584; July 2; Gaz. vol. 180; p. 254.
Pure Food Package Company. (See Norman, Lionel, assignor.)
Pure Food Process Company, The. (See Schmitt, Edward D., assignor.)
Purefoy, Wilfred B., *et al.* (See Parsons, Cecil W., assignor.)
Purified Petroleum Products Company, The. (See Hamilton, Thomas S., assignor.)
Puritan Comb Company. (See Hines, William J., assignor.)
Purity Paper Bottle Corporation. (See Bond, Joseph T., assignor.)
Purnell, Richard H., Rosedale, Miss. Cultivator. No. 1,045,080; Nov. 19; Gaz. vol. 184; p. 769.
Purpura, Liborio, Wheeling, W. Va. Hydraulic motor. No. 1,032,344; July 9; Gaz. vol. 180; p. 558.
Pursglove, William T., Philadelphia, Pa., assignor to The A. Mecky Company. Wheel-hub. No. 1,021,476; Mar. 26; Sp. p. 5275; Gaz. vol. 176; p. 951.
Purviance, Benjamin F., assignor of one-half to B. J. Kelsey, Brookpark, Minn. Nut-lock. No. 1,016,710; Feb. 6; Sp. p. 1078; Gaz. vol. 175; p. 166.
Purvis, William B., Sharon Hill, and A. D. Gritman, Philadelphia, Pa. Electric railway. No. 1,044,819; Nov. 19; Gaz. vol. 184; p. 679.
Purvis, William J., and C. A. Wilson, Goodland, Kans. Flying-machine. No. 1,028,781; June 4; Sp. p. 1533; Gaz. vol. 179; p. 239.
Pury, Hermann de, Neuchâtel, assignor to Atoxicafe S. A., Clarens, Montreux, Switzerland. Removing the toxic constituents from coffee. No. 1,041,160; Oct. 15; Gaz vol. 183; p. 569.
Pushee, George D., Weston, Mass. Brush. No. 1,040,407; Oct. 8; Gaz. vol. 183; p. 277.
Putman, Charles E. (See Shupe, Joseph J., assignor.)
Putman, Lewis S., assignor of one-third to M. J. Stacy and one-third to C. E. Trott, Stacy, Tex. Extensible ladder. No. 1,031,818; July 9; Gaz. vol. 180; p. 379.
Putnam, Edward H., Moline, Ill. Snap-mold jacket. No. 1,026,700; May 21; Sp. p. 3540; Gaz. vol. 178; p. 617.
Putnam, George B., assignor to Burroughs Adding Machine Company, Detroit, Mich. Adding-machine. No. 1,018,371; Feb. 20; Sp. p. 4707; Gaz. vol. 175; p. 807.
Putnam, James R., assignor to Waterbury Clock Co., Waterbury, Conn. Keyless automobile-clock. No. 1,034,733; Aug. 6; Gaz. vol. 181; p. 111.
Putnam, Salmon W., 3d, Fitchburg, Mass. Metal-turning lathe. No. 1,042,268; Oct. 22; Gaz. vol. 183; p. 976.
Putnam, Salmon W., 3d, Fitchburg, Mass. Tail-stock-clamping means. No. 1,042,369; Oct. 22; Gaz. vol. 183; p. 1009.
Putnam, Salmon W., 3d, Fitchburg, Mass., and F. J. Baumis, Rensselaer, N. Y. Tool-holder. No. 1,048,734; Dec. 31; Gaz. vol. 185; p. 1151.
Putnam, William H., New York, N. Y. Antiskidding device. No. 1,045,609; Nov. 26; Gaz. vol. 184; p. 985.
Putney, Charles F., Chico, Cal. Antiseptic ventilator. No. 1,033,467; July 23; Gaz. vol. 180; p. 1019.
Putney, Herbert E., assignor of one-half to I. Silverman, Toledo, Ohio. Adjustable tension attachment for shears. No. 1,031,370; July 2; Gaz. vol. 180; p. 182.
Putney, Herbert S., and F. L. Carswell, Topeka, Kans. Culvert-pipe. No. 1,020,779; Mar. 19; Sp. p. 3783; Gaz. vol. 176; p. 663.
Putzke, Otto, Halle-on-the-Saale, Germany. Mowing-machine. No. 1,036,145; Aug. 20; Gaz. vol. 181; p. 660.
Pyewell, Edmund P. (See Gadd, Charles J., assignor.)
Pyle, Louis M. (See Wray and Pyle.)
Pyle National Electric Headlight Company. (See Dake, Charles W., assignor.)
Pyle, Robert H., Indianapolis, assignor, by mesne assignments, to Remy Electric Company, Anderson, Ind. Steam-turbine. No. 1,036,708; Aug. 27; Gaz. vol. 181; p. 886.
Pyles, Edward A. (See Klein and Pyles.)
Pyles, James B., Moore, Mont. Draft apparatus. No. 1,034,299; July 30; Gaz. vol. 180; p. 1330.
Pyles, James B., Moore, Mont. Draft-equalizer. No. 1,042,269; Oct. 22; Gaz. vol. 183; p. 976.
Pyles, Julius E. (See Klein and Pyles, assignors.)
Pyles, Thomas J., Columbia, S. C. Recording system for railway-signals. No. 1,023,037; Apr. 9; Sp. p. 2726; Gaz. vol. 177; p. 466.
Pyrene Manufacturing Company. (See Davidson, Edward M., assignor.)
Pysher, Lincoln, Grove, Okla. Vegetable-slicer. No. 1,039,800; Oct. 1; Gaz. vol. 183; p. 44.
Pÿzel, Daniel, Balik Papan, Borneo, Dutch East India. Sweating crude paraffin-wax or like mixtures (compositions) of substances which melt at different temperatures. No. 1,040,408; Oct. 8; Gaz. vol. 183; p. 277.
Pyzikowski, Walenty, Elizabeth, Pa. Check-valve for cuspidors. No. 1,015,069; Jan. 16; Sp. p. 4405; Gaz. vol. 174; p. 740.
Q. & H. Company. (See Posson, Edward, assignor.)
Q M S Company, The. (See Butz, Walter H., assignor.)
Quackenbush, Morris B., Big Rapids, Mich. Ice-creeper. No. 1,034,508; Aug. 6; Gaz. vol. 181; p. 36.
Quade, Fritz, assignor to Firm of J. A. Wülfing, Berlin, Germany. Producing water-soluble crystalline aluminum formate and product obtained thereby. No. 1,030,747; June 25; Sp. p. 6064; Gaz. vol. 179; p. 1033.
Quaintance, Ellsworth E., Denver, Colo. Permutation-lock. No. 1,017,313; Feb. 13; Sp. p. 2401; Gaz. vol. 175; p. 409.
Quaintance, Ellsworth E., Denver, Colo. Permutation-lock. No. 1,027,564; May 28; Sp. p. 5434; Gaz. vol. 178; p. 951.
Quanstrom, Andrew E., Chicago, Ill. Tug-fastener. No. 1,029,888; June 18; Sp. p. 3981; Gaz. vol. 179; p. 693.
Quareles, Belle, San Francisco, Cal. Box-couch. No. 1,045,181; Nov. 26; Gaz. vol. 184; p. 832.
Quarelli, Peter, Reno, Nev. Water-receptacle. No. 1,035,737; Aug. 13; Gaz. vol. 181; p. 481.
Quarles, James H. (See Irvin, Thomas H., assignor.)
Quarrier, Keith D., Wevaco, W. Va. Railway-tie and clamp. No. 1,045,744; Nov. 26; Gaz. vol. 184; p. 1032.
Quastenberg, Alfred, Erfurt, Germany. Electromagnet. No. 1,025,020; Apr. 30; Sp. p. 7034; Gaz. vol. 177; p. 1236.
Quay, David M., assignor, by mesne assignments, to Van Kannel Revolving Door Company, New York, N. Y. Revolving door. No. 1,030,849; June 25; Sp. p. 6434; Gaz. vol. 179; p. 1072.
Quayle, Bert L., *et al.* (See Cummins, Herbert L., assignor.)
Queneau, Augustin L. J., assignor to Wetherill Finished Castings Company, Philadelphia, Pa. Casting of metals. No. 1,043,867; Nov. 12; Gaz. vol. 184; p. 319.
Quentell, William P., New York, N. Y., and F. Judge, Greenfield, Mass., assignors to A. B. Dick Company, Chicago, Ill. Calculating-machine. No. 1,031,371; July 2; Gaz. vol. 180; p. 183.
Quenzer, Arthur, New York, N. Y. Ankle-supporter. No. 1,027,897; May 28; Sp. p. 6194; Gaz. vol. 178; p. 1062.
Quernheim, Oliver H. (See Orear, Benjamin F., assignor.)
Quesada, Joaquin G. de, Barcelona, Spain. Refrigerating apparatus. No. 1,025,765; May 7; Sp. p. 1449; Gaz. vol. 178; p. 227.
Quest, William O., Pittsburgh, Pa. Spraying-machine. No. 1,022,206; Apr. 2; Sp. p. 963; Gaz. vol. 177; p. 154.
Quester, Eduard, Cologne-Lindenthal, Germany. Device for providing cigarette-paper with mouthpiece materials. No. 1,046,643; Dec. 10; Gaz. vol. 185; p. 333.
Quezada, Belén, San Jose, Cal. Flying-machine. No. 1,048,429; Dec. 24; Gaz. vol. 185; p. 1006.
Quick, Frank J., Cranston, assignor of one-third to J. Hahn, Providence, R. I. Automatic fire-extinguisher. No. 1,038,958; Sept. 17; Gaz. vol. 182; p. 673.
Quickel, Henry F., Harrisburg, Pa. Regulator for furnaces. No. 1,045,610; Nov. 26; Gaz. vol. 184; p. 985.
Quigg, A. R. (See Lillibridge, Jerome B. and A., assignors.)
Quigg, John G., Pittsburgh, Pa. Safety device for flying-machines. No. 1,038,196; Sept. 10; Gaz. vol. 182; p. 373.

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Quiggan, John P., Brooklyn, N. Y. Printing appliance. No. 1,026,767; May 21; Sp. p. 3700; Gaz. vol. 178; p. 640.
Quiggin, Daniel A., Liverpool, England. Apparatus for evaporating or heating water by steam. No. 1,029,631; June 18; Sp. p. 3383; Gaz. vol. 179; p. 603.
Quigley, James J., Mamaroneck, N. Y. Throttle-controller. No. 1,043,868; Nov. 12; Gaz. vol. 184; p. 320.
Quigley, Jennie M., Verona, Pa. Knife. No. 1,047,445; Dec. 17; Gaz. vol. 185; p. 642.
Quigley, John F., West Lynn, Mass. Sole-holding device. No. 1,029,459; June 11; Sp. p. 3027; Gaz. vol. 179; p. 507.
Quigley, Thomas D., San Francisco, Cal. Pneumatic vehicle-spring. No. 1,029,945; June 18; Sp. p. 4100; Gaz. vol. 179; p. 711.
Quigley, Wirt S., Rockaway Park, N. Y. Furnace. No. 1,039,801; Oct. 1; Gaz. vol. 183; p. 44.
Quincy Engine Company. (See Metcalfe, John T. and G., assignors.)
Quincy, Manchester, Sargent Company. (See Allen, John H., assignor.)
Quine, John H., Rochester, N. Y. Treating bran and a product obtained thereby. No. 1,018,441; Feb. 27; Sp. p. 4886; Gaz. vol. 175; p. 864.
Quinlan, Charles J., Fitchburg, Mass. Device for supporting hats and garments. No. 1,045,436; Nov. 26; Gaz. vol. 184; p. 921.
Quinlan, Michael, Monkton, assignor to New Haven Mills Mfg. Co., New Haven Mills, Vt. Box-machine. No. 1,021,703; Mar. 26; Sp. p. 5695; Gaz. vol. 176; p. 1026.
Quinlan, Michael J., Bristol, Vt. Stone-boat. No. 1,038,959; Sept. 17; Gaz. vol. 182; p. 673.
Quinn, Ambrose A., assignor of forty-five one-hundredths to S. B. Boothe, Pittsburgh, Pa. Protecting device for vessels. No. 1,045,081; Nov. 19; Gaz. vol. 184; p. 769.
Quinn, John C., Philadelphia, Pa., assignor to The Engineer Company. Grate. No. 1,021,556; Mar. 26; Sp. p. 5435; Gaz. vol. 176; p. 978.
Quinn, Michael J., Hibernia, N. J. Combination reinholder and safety whip-socket. No. 1,030,245; June 18; Sp. p. 4729; Gaz. vol. 179; p. 814.
Quinn, Michael J., Chicago, Ill. Water-heater. No. 1,035,636; Aug. 13; Gaz. vol. 181; p. 448.
Quinn, Wilbur W., Goshen, Ind., assignor of one-half to National Chemical Company, Syracuse, N. Y. Laundry-conveyer drop. No. 1,019,086; Mar. 5; Sp. p. 175; Gaz. vol. 176; p. 28.
Quinn, Wilbur W., Goshen, Ind., assignor of one-half to National Chemical Company, Syracuse, N. Y. Laundry-conveyer drop. No. 1,041,870; Oct. 22; Gaz. vol. 183; p. 845.
Quinn, William E., assignor of one-tenth to (Miss) G. L. Stringfellow, Shreveport, one-tenth to J. M. Robinson, Bayou La Chute, and G. W. Robinson, and one-half to J. W. Atkins, Shreveport, La. Jack. No. 1,036,002; Aug. 20; Gaz. vol. 181; p. 608.
Quinsigamond Pressed Steel and Tool Company. (See Larava, Henry F., assignor.)
Quintal, Lewis, Cleveland, Ohio. Vehicle-tire. No. 1,030,537; June 25; Sp. p. 5452; Gaz. vol. 179; p. 958.
Quirin, Emil J. F., Tioga Center, N. Y. Leather-staking machine. No. 1,036,335; Aug. 20; Gaz. vol. 181; p. 727.
Quisling, Rasmus H., Christiania, Norway. Projectile. No. 1,049,144; Dec. 31; Gaz. vol. 185; p. 1293.
Quivey, Lynn A., Cozad, Nebr. Instrument for obtaining averages. No. 1,023,961; Apr. 23; Sp. p. 4707; Gaz. vol. 177; p. 835.
R. Hoe and Co. (See Cooper, Ellis W., assignor.)
R. Hoe and Co. (See Halliwell, John J., assignor.)
R. Hoe and Co. (See Read, George F., assignor.)
R. Hoe and Co. (See Roesen, Oscar, assignor.)
R. Hoe and Co. (See Sheldon, Edward P., assignor.)
R. Neumann Hardware Co. (See Lotz, William A., assignor.)
R. Neumann Hardware Co., The. (See Tueckmantel, Hugo, assignor.)
R. E. Dietz Company. (See Betts, Charles L., assignor.)
R. E. Dietz Company *et al.* (See Dietz, Frederick, assignor.)
R. E. Dietz Company. (See Everett, Ernest C., assignor.)
R. E. Dietz Company *et al.* (See McArthur, Warren, assignor.)
R. E. Funsten Dried Fruit & Nut Company. (See Crawford and Knight, assignors.)
R. E. T. Construction Company, The. (See Munro, Edward M., assignor.)
R. H. Long Machinery Company. (See Doidge, John J., assignor.)
R. K. Le Blond Machine Tool Co. (See Le Blond and Groene, assignors.)
R. M. D. Syndicate. (See Müller, Auguste R., assignor.)
R. R. Donnelley & Sons Company. (See Beezley, Charles F., Jr., assignor.)
Raab, Heinrich, Pirmasens, Germany. Machine for lasting boots and shoes. No. 1,036,146; Aug. 20; Gaz. vol. 181; p. 661.
Raabe, Frederick H., New York, N. Y. Adjustable spring-bearer. No. 1,040,012; Oct. 1; Gaz. vol. 183; p. 113.
Raabe, Max, Cronberg in the Taunus, Germany. Automatic stabilizer for flying-machines. No. 1,028,782; June 4; Sp. p. 1536; Gaz. vol. 179; p. 239.
Raade, Oscar, Pelican Rapids, Minn. Combined knife and saw. No. 1,047,838; Dec. 17; Gaz. vol. 185; p. 782.
Raaths, Ernest, Angelica, assignor of one-half to E. H. Bramschreiber, Zachow, Wis. Gate-latch. No. 1,022,872; Apr. 9; Sp. p. 2389; Gaz. vol. 177; p. 408.
Rabbitt, James A., Yokohama, Japan. Aeroplane. No. 1,037,658; Sept. 3; Gaz. vol. 182; p. 162.
Rabbitt, James A., Yokohama, Japan. Talking-machine. No. 1,037,983; Sept. 10; Gaz. vol. 182; p. 305.
Rabbitt, James A., Yokohama, Japan. Talking-machine. No. 1,041,871; Oct. 22; Gaz. vol. 183; p. 845.
Rabel, Ernest R., Washington, D. C. Play-ring. No. 1,016,520; Feb. 6; Sp. p. 663; Gaz. vol. 175; p. 100.
Rabenalt, Gustav H., Dover, N. J. Purifying hydrogen. No. 1,034,646; Aug. 6; Gaz. vol. 181; p. 80.
Rabenau, Curt T. L. von, Islington, England. Motorcycle driving-belt. No. 1,028,783; June 4; Sp. p. 1537; Gaz. vol. 179; p. 239.
Raber, Charles K., *et al.* (See Rodgers, Josiah C., assignor.)
Raber, Joseph, assignor to Emerson Typewriter Company, Woodstock, Ill. Type-writer carriage. No. 1,016,175; Jan. 30; Sp. p. 6741; Gaz. vol. 174; p. 1172.
Raber, Joseph, assignor to Emerson Typewriter Company, Woodstock, Ill. Type-bar-supporting frame. No. 1,018,989; Feb. 27; Sp. p. 6119; Gaz. vol. 175; p. 1051.
Raber, Joseph, Poplar Bluff, assignor to Adding Typewriter Company, St. Louis, Mo. Platen mechanism for type-writing machines. No. 1,027,391; May 21; Sp. p. 5079; Gaz. vol. 178; p. 855.
Raber, Joseph, Poplar Bluff, assignor to Dalton Adding Machine Company, St. Louis, Mo. Adding and recording machine. No. 1,033,932; July 30; Gaz. vol. 180; p. 1201.
Raber, Samuel M., Colony, Wyo. Sage-brush-grubbing and ditching machine. No. 1,023,173; Apr. 16; Sp. p. 3082; Gaz. vol. 177; p. 551.
Rabinowitsch, Jankel-Aron C. (See Cheifetz, Morduch, assignor.)
Rabinowitz, Max, Baltimore, Md. Combined chair and window-cleaner's support. No. 1,018,341; Feb. 20; Sp. p. 4638; Gaz. vol. 175; p. 797.
Rach, Carl, Stapleton, N. Y. Rotary press. No. 1,018,267; Feb. 20; Sp. p. 4501; Gaz. vol. 175; p. 773.
Racine-Sattley Company. (See Weaver, Ira A., assignor.)
Raclot, Jules, and C. Enderlin, St. Maur-des-Fossés, France. Flying-machine. No. 1,023,096; Apr. 9; Sp. p. 2854; Gaz. vol. 177; p. 486.
Raclot, Jules, and C. Enderlin, St.-Maur-des-Fossés, France. Flying-machine. No. 1,037,050; Aug. 27; Gaz. vol. 181; p. 1000.
Raczkowski, Alexander. (See Sommers, Frederick, assignor.)
Rada, Jacob, Jennings, Kans. Hog-chute. No. 1,036,147; Aug. 20; Gaz. vol. 181; p. 661.
Radack, Frank S., Newark, N. J. Transferring mechanism for filling and capping machines. No. 1,047,288; Dec. 17; Gaz. vol. 185; p. 588.
Radcliff, Lee, Danvers, and E. E. Kilby, Mackinaw, Ill. Electric-car switch. No. 1,027,898; May 28; Sp. p. 6195; Gaz. vol. 178; p. 1062.
Radcliff, Sidney, Bairnsdale, Victoria, Australia. Treating complex radium ores. No. 1,049,145; Dec. 31; Gaz. vol. 185; p. 1293.
Raddatz, Fredrich R., Oxford, N. J. Burial-case. No. 1,033,733; July 23; Gaz. vol. 180; p. 1105.
Raddatz, Richard, Milwaukee, Wis. Wheelbarrow. No. 1,038,197; Sept. 10; Gaz. vol. 182; p. 374.
Rademacher, Frank. (See Price, Alfred, assignor.)
Rademacher, Johann, Pankow, near Berlin, Germany. Chain grate. No. 1,028,276; June 4; Sp. p. 464; Gaz. vol. 179; p. 68.
Rader, August C., Upper Montclair, N. J. Shade-holder. No. 1,015,976; Jan. 30; Sp. p. 6341; Gaz. vol. 174; p. 1103.
Rader, August C., Upper Montclair, N. J. Curtain or shade guide. No. 1,015,977; Jan. 30; Sp. p. 6343; Gaz. vol. 174; p. 1104.
Rader, Louisa M., Upper Montclair, N. J. Cutting mechanism for plaster-board machines. No. 1,048,875; Dec. 31; Gaz. vol. 185; p. 1200.
Radford, Stephen C., Oshkosh, Wis. Button. No. 1,043,251; Nov. 5; Gaz. vol. 184; p. 73.
Radford, Wilbur H., Athens, Ohio. Punching-machine. No. 1,035,637; Aug. 13; Gaz. vol. 181; p. 449.
Radiant Heating Limited. (See McCourt, Cyril D., assignor.)
Radloff, Frederick, Goldendale, Wash. Washing-machine. No. 1,027,152; May 21; Sp. p. 4600; Gaz. vol. 178; p. 772.
Radovanovic, Andreas, Zurich, Switzerland. Reed-organ. No. 1,035,738; Aug. 13; Gaz. vol. 181; p. 481.
Radunz, Emil A., and O. Engelhardt, Toledo, Ohio. Safety-valve for gas-lines. No. 1,035,467; Aug. 13; Gaz. vol. 181; p. 391.
Radzyminski, Narcyz. (See Lewandowski, Leon, assignor.)

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Rae, Avis F., Chicago, Ill. Housekeeper's reminder. No. 1,026,768; May 21; Sp. p. 3702; Gaz. vol. 178; p. 641.
Rae, John, assignor to Kearns Manufacturing Company, Philadelphia, Pa. Caster. No. 1,017,464; Feb. 13; Sp. p. 2743; Gaz. vol. 175; p. 461.
Rae, Walter R., Chicago, Ill., assignor to The Ohio Varnish Company, Cleveland, Ohio. Demonstrating-machine. No. 1,029,223; June 11; Sp. p. 2497; Gaz. vol. 179; p. 425.
Rae, William C. (See Shrum, Rae, and Ripper.)
Raedel, Henry C., Gold Hill, Oreg. Gun-sight. No. 1,048,876; Dec. 31; Gaz. vol. 185; p. 1201.
Raes, Joseph, Schenectady, N. Y. Adjustable fishing-pole holder. No. 1,035,739; Aug. 13; Gaz. vol. 181; p. 481.
Raes, Joseph, Schenectady, N. Y. Clothes-hook. No. 1,035,740; Aug. 13; Gaz. vol. 181; p. 481.
Raes, Joseph, Schenectady, N. Y. Vise. No. 1,045,745; Nov. 26; Gaz. vol. 184; p. 1032.
Raffel, Isaac, Baltimore, Md. Burglar-trap. No. 1,024,224; Apr. 23; Sp. p. 5299; Gaz. vol. 177; p. 928.
Rafferty, Charles E., Washington, D. C. Wall construction. No. 1,029,822; June 18; Sp. p. 3821; Gaz. vol. 179; p. 670.
Raflovich, Gustaf H., Boston, Mass. Device for repairing pneumatic tires. No. 1,048,208; Dec. 24; Gaz. vol. 185; p. 933.
Raftery, Solomon M., assignor to National Spring and Wire Company, Albion, Mich. Spring construction. No. 1,036,904; Aug. 27; Gaz. vol. 181; p. 950.
Ragan, Ralph, Atlanta, Ga. Explosive-engine. No. 1,048,095; Dec. 24; Gaz. vol. 185; p. 895.
Ragan, Thomas J., Binghamton, N. Y. Emergency horseshoe attachment. No. 1,034,300; July 30; Gaz. vol. 180; p. 1330.
Ragan, William H., Siloam Springs, Ark. Plant-protector. No. 1,025,073; Apr. 30; Sp. p. 7130; Gaz. vol. 177; p. 1252.
Rager, Jonathan E., *et al.* (See Haws, William H., assignor.)
Raggio, Charles A., assignor of one-half to L. G. Raggio, Chicago, Ill. Receptacle for garbage-cans. No. 1,044,417; Nov. 12; Gaz. vol. 184; p. 509.
Raggio, Louis G. (See Raggio, Charles A., assignor.)
Ragona, John. (See Ragona, Vincent, J., and W.)
Ragona, John, New York, N. Y. Support for piano music-desks. No. 1,022,594; Apr. 9; Sp. p. 1783; Gaz. vol. 177; p. 313.
Ragona, Vincent, J., and W., New York, N. Y. Paper-box-making machine. No. 1,019,276; Mar. 5; Sp. p. 587; Gaz. vol. 176; p. 94.
Ragona, Vincent, J., and W., New York, N. Y. Tipping attachment for cigarette-machines. No. 1,033,933; July 30; Gaz. vol. 180; p. 1202.
Ragona, William. (See Ragona, Vincent, J., and W.)
Ragsdale, Charles R., assignor of three-fourths to G. C. Ragsdale, one-eighth to I. M. Ragsdale, St. Louis, Mo., and one-eighth to D. I. Smith, Paducah, Ky. Tire-shield. No. 1,039,671; Sept. 24; Gaz. vol. 182; p. 935.
Ragsdale, Gertrude C., *et al.* (See Ragsdale, Charles R., assignor.)
Ragsdale, Idella M., *et al.* (See Ragsdale, Charles R., assignor.)
Ragsdale, William E., Artesia, N. Mex. Display-stand. No. 1,015,457; Jan. 23; Sp. p. 5243; Gaz. vol. 174; p. 898.
Raguse, Fred W., Chicago, Ill. Grooving and cutting machine. No. 1,036,905; Aug. 27; Gaz. vol. 181; p. 950.
Rahe Match Company. (See Rahe, Samuel E., assignor.)
Rahe, Samuel E., assignor to Rahe Match Company, New York, N. Y. Match-making machine. No. 1,030,790; June 25; Sp. p. 6204; Gaz. vol. 179; p. 1049.
Rahm, Robert C., Wyomissing, assignor to The American Conduit Manufacturing Company, Pittsburgh, Pa. Mechanism for manufacturing electrical conduits. No. 1,017,232; Feb. 13; Sp. p. 2240; Gaz. vol. 175; p. 381.
Rahn, George C., Haileybury, Ontario, Canada. Beehive-entrance guard. No. 1,017,233; Feb. 13; Sp. p. 2241; Gaz. vol. 175; p. 381.
Rahn, Hermann, Charlottenburg, Germany. Apparatus for shaping metal articles. No. 1,023,962; Apr. 23; Sp. p. 4708; Gaz. vol. 177; p. 835.
Rahr, William, Jr. (See Ulrich, Julius M., assignor.)
Raich, Joseph, Chicago, Ill. Printing-press. No. 1,016,033; Jan. 30; Sp. p. 6466; Gaz. vol. 174; p. 1125.
Raiche, Andrew, assignor to Atlas Tack Company, Fairhaven, Mass. Wear-resisting member. No. 1,027,899; May 28; Sp. p. 6197; Gaz. vol. 178; p. 1063.
Raiche, Andrew, assignor to Atlas Tack Company, Fairhaven, Mass. Hook-setting machine. No. 1,036,710; Aug. 27; Gaz. vol. 181; p. 886.
Raiche, Andrew, Quincy, assignor to N. Marshall, West Newton, Mass. Screw-driving machine. No. 1,047,986; Dec. 24; Gaz. vol. 185; p. 853.
Rail Joint Company, The. (See Bradley, William J., assignor.)
Rail Joint Company, The. (See Braine, Bancroft G., assignor.)
Rail Joint Company, The. (See Weeks, Charles A., assignor.)
Rail Joint Company, The. (See Wolhaupter, Benjamin, assignor.)
Rail Laying Machine Company. (See Reinehr, John, assignor.)
Railway Materials Company, The. (See Mendenhall, Clarence M., assignor.)
Railway Materials Company. (See Simpson, William M., assignor.)
Railway Telephone & Electric Company. (See Lademan, Otto T., assignor.)
Rainalter, Rudolph, St. Joseph, Mo. Oscillatory motor. No. 1,036,711; Aug. 27; Gaz. vol. 181; p. 887.
Rainforth, Henry S., Lincoln, England. Riddling apparatus for separating straw, cavings, chaff, and the like from grain or seeds. No. 1,026,529; May 14; Sp. p. 3164; Gaz. vol. 178; p. 523.
Rains, George M., Grosvenor, Tex. Trapping device. No. 1,014,516; Jan. 9; Sp. p. 3132; Gaz. vol. 174; p. 520.
Rainsford, Thomas F., Cleveland, Ohio. Fluid-clutch. No. 1,025,481; May 7; Sp. p. 833; Gaz. vol. 178; p. 130.
Rainville, Victor, Lawrence, assignor, by mesne assignments, to Draper Company, Hopedale, Mass. Feeler-motion for looms. No. 1,040,409; Oct. 8; Gaz. vol. 183; p. 278.
Raisin, Victor, assignor to La Cie. Industrielle des Alcools de l'Ardèche, Paris, France. Saccharifying apparatus. No. 1,018,778; Feb. 27; Sp. p. 5671; Gaz. vol. 175; p. 980.
Raisin, Victor, assignor to Société Compagnie Industrielle des Alcools de l'Ardeche, Paris, France. Absorbent product. No. 1,021,477; Mar. 26; Sp. p. 5276; Gaz. vol. 176; p. 951.
Rait, George B., Minneapolis, Minn. Mechanical stoker. No. 1,017,170; Feb. 13; Sp. p. 2094; Gaz. vol. 175; p. 359.
Raitz, Henry A., Groton, S. D. Air and gas mixing valve. No. 1,043,970; Nov. 12; Gaz. vol. 184; p. 357.
Rajala, Emil J., Redridge, Mich. Comb-cleaning device. No. 1,042,270; Oct. 22; Gaz. vol. 183; p. 977.
Rakestraw, William H., assignor to Automatic Vacuum Cleaner Company, Bloomington, Ill. Vacuum-cleaner. No. 1,020,310; Mar. 12; Sp. p. 2759; Gaz. vol. 176; p. 468.
Raleigh & Robert. (See Greenbaum, Jules, assignor.)
Raley, Frank, Meridian, Miss. Car-door lock. No. 1,027,276; May 21; Sp. p. 4841; Gaz. vol. 178; p. 815.
Rall, Max. (See Honold and Rall.)
Rall, Max. (See Honold, Rall, and Mumprecht.)
Ralls, Earl M., Sacramento, Cal. Airship. No. 1,045,746; Nov. 26; Gaz. vol. 184; p. 1032.
Ralph, Stephen J., Stockton, assignor to G. Keeble, Lincoln Road, Peterborough, England. Detachable-wheel-securing mechanism. No. 1,049,146; Dec. 31; Gaz. vol. 185; p. 1293.
Ralston, Howard H., Norwood, Ohio, assignor to The Bullock Electric Manufacturing Company. Dynamo-electric machine. No. 1,028,965; June 11; Sp. p. 1947; Gaz. vol. 179; p. 336.
Ralston, Howard H., Norwood, Ohio, assignor to Allis-Chalmers Company and The Bullock Electric Manufacturing Company. Collecting device for dynamo-electric machines. No. 1,016,774; Feb. 6; Sp. p. 1220; Gaz. vol. 175; p. 187.
Ralston, Howard H., Norwood, Ohio, assignor to Allis-Chalmers Company and The Bullock Electric Manufacturing Company. Dynamo-electric machine. No. 1,030,013; June 18; Sp. p. 4232; Gaz. vol. 179; p. 733.
Ralston, Isaac J., and J. A. Briggs, assignors of one-third to H. J. Walter, Kane, Pa. Pressure-regulator. No. 1,020,369; Mar. 12; Sp. p. 2870; Gaz. vol. 176; p. 486.
Ralston Steel Car Company, The. (See Becker, Anton, assignor.)
Ralston Steel Car Company, The. (See Irwin, Frank L., assignor.)
Ralston Steel Car Company, The. (See Tesseyman, John E., assignor.)
Ralston Steel Car Company, The. (See Tesseyman and Weaver, assignors.)
Ralston Steel Car Company, The. (See Weaver, Robert R., assignor.)
Ramage, Jonothan W., El Paso, Tex. Gasket-retainer. No. 1,027,565; May 28; Sp. p. 5440; Gaz. vol. 178; p. 951.
Ramage, William T., Toronto, Ontario, Canada. Pipe or tube cutter. No. 1,045,884; Dec. 3; Gaz. vol. 185; p. 30.
Rambaud, George G., New York, N. Y. Machine for sealing the ends of metallic tubes. No. 1,026,456; May 14; Sp. p. 3019; Gaz. vol. 178; p. 498.
Ramer, George W., Davis Creek, Cal. Ship-cleaner. No. 1,036,336; Aug. 20; Gaz. vol. 181; p. 728.
Ramey, Charles W., Burdette, Ark. Log-grapple. No. 1,032,083; July 9; Gaz. vol. 180; p. 467.
Ramming, Fred, Sheboygan, Wis. Curtain-pole. No. 1,023,963; Apr. 23; Sp. p. 4710; Gaz. vol. 177; p. 835.
Ramondt, Karel O. S., Haarlem, Netherlands. Revolving door. No. 1,030,266; June 18; Sp. p. 4786; Gaz. vol. 179; p. 822.
Ramos, Frank, *et al.* (See Perry, Alfred H., assignor.)
Ramos, M. F., *et al.* (See Perry, Alfred H., assignor.)

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Rampichini, Francesco, Trieste, Austria-Hungary. Making leather joints. No. 1,048,877; Dec. 31; Gaz. vol. 185; p. 1201.
Rampley, John J., Carnesville, Ga. Cultivator. No. 1,017,465; Feb. 13; Sp. p. 2744; Gaz. vol. 175; p. 462.
Ramsaier, William J., New York, N. Y. Counting attachment for printing-presses. No. 1,028,905; June 11; Sp. p. 1821; Gaz. vol. 179; p. 316.
Ramsay, Allan. (See Jackson, Thomas, assignor.)
Ramsay, John C., St. Louis, Mo. Mechanical movement. No. 1,029,766; June 18; Sp. p. 3683; Gaz. vol. 179; p. 649.
Ramsay, Robert L., Corpus Christi, Tex., assignor to J. H. Bunnell and Company, New York, N. Y. Electric switch. No. 1,046,854; Dec. 10; Gaz. vol. 185; p. 407.
Ramsay-Vance Sales Company. (See Phillips and Hambuechen, assignors.)
Ramsdell, James H., Newton Falls, Ohio. Rail-joint. No. 1,031,676; July 2; Gaz. vol. 180; p. 287.
Ramsdell, Rufus E., Newton, Mass. Pocket igniting device. No. 1,027,900; May 28; Sp. p. 6198; Gaz. vol. 178; p. 1063.
Ramsden, Charles H., San Francisco, Cal., assignor to Western Pipe and Steel Company of California. Flume. No. 1,027,627; May 28; Sp. p. 5547; Gaz. vol. 178; p. 970.
Ramsey, Abraham L., Vincennes, Ind. Vehicle axle-spindle lubricator. No. 1,024,146; Apr. 23; Sp. p. 5119; Gaz. vol. 177; p. 900.
Ramsey, Edia R. (See Wheeler and Ramsey.)
Ramsey, Edia R., Penn Yan, N. Y. Amusement device. No. 1,021,331; Mar. 26; Sp. p. 4928; Gaz. vol. 176; p. 901.
Ramsey, Jennie V., Ronan, Mont. Coffee-pot. No. 1,046,013; Dec. 3; Gaz. vol. 185; p. 73.
Ramsey, John S., Virsylvia, N. Mex. Closure for bottles. No. 1,037,051; Aug. 27; Gaz. vol. 181; p. 1000.
Ramsey, Joseph D., Dorchester, Mass. Valve for drinking-fountains. No. 1,016,956; Feb. 13; Sp. p. 1615; Gaz. vol. 175; p. 284.
Ramsey, Joseph D., Boston, Mass. Filter. No. 1,020,053; Mar. 12; Sp. p. 2224; Gaz. vol. 176; p. 383.
Ramsey, Joseph D., Boston, Mass. Fluid-pressure regulator. No. 1,022,330; Apr. 2; Sp. p. 1210; Gaz. vol. 177; p. 193.
Ramsey, Joseph H., Albany, H. M. Clearwater, Troy, and J. Temple, Watervliet, assignors to Earl & Wilson, Troy, N. Y. Blank-folding machine for the manufacture of collars, cuffs, and the like. No. 1,043,722; Nov. 5; Gaz. vol. 184; p. 238.
Ramsey, Samuel W., Kent, Ohio. Producing cementitious products. No. 1,036,712; Aug. 27; Gaz. vol. 181; p. 887.
Ramstead, Olaf K., San Quentin, Cal. Anti-rail-creeper. No. 1,025,303; May 7; Sp. p. 422; Gaz. vol. 178; p. 69.
Rand, Festus S., Providence, R. I., assignor to Universal Winding Company, Portland, Me. Warping-machine. No. 1,022,755; Apr. 9; Sp. p. 2160; Gaz. vol. 177; p. 370.
Rand, Festus S., Providence, R. I., assignor to Universal Winding Company, Portland, Me. Stop-motion for warping-machines. No. 1,025,158; May 7; Sp. p. 99; Gaz. vol. 178; p. 18.
Rand, Festus S., Providence, R. I., assignor to Universal Winding Company. Winding-machine. No. 1,027,277; May 21; Sp. p. 4843; Gaz. vol. 178; p. 816.
Rand, Festus S., Providence, R. I., assignor to Universal Winding Company, Portland, Me. Yarn-guide. No. 1,029,399; June 11; Sp. p. 2911; Gaz. vol. 179; p. 486.
Rand, Festus S., Providence, R. I., assignor to Universal Winding Company, Portland, Me. Warping-machine. No. 1,048,580; Dec. 31; Gaz. vol. 185; p. 1096.
Rand, Frank P. (See Penn and Rand.)
Rand, Frank P., assignor of one-half to C. F. Penn, Spokane, Wash. Poison-receptacle. No. 1,013,514; Jan. 2; Sp. p. 923; Gaz. vol. 174; p. 148.
Rand, James H., Newton, Mass. Adjustable card-index. No. 1,016,230; Jan. 30; Sp. p. 6849; Gaz. vol. 174; p. 1190.
Rand, James H., Newton, Mass. Adjustable index. No. 1,025,997; May 14; Sp. p. 1980; Gaz. vol. 178; p. 341.
Rand, James H., Newton, Mass. Hinged index-frame. No. 1,034,647; Aug. 6; Gaz. vol. 181; p. 81.
Rand, James H., Newton, Mass. Indicator-tab. No. 1,045,182; Nov. 26; Gaz. vol. 184; p. 832.
Rand, John L. (See Gyllenberg, John A., assignor.)
Rand, McNally & Company. (See Kuen, Charles W., assignor.)
Rand, Samuel, Birmingham, Ala. Tool for preparing ground to receive explosive charges. No. 1,027,433; May 28; Sp. p. 5175; Gaz. vol. 178; p. 907.
Randall & Co., Richard T. (See Müller, Henry F., assignor.)
Randall-Faichney Company, The. (See McElroy, Patrick J., assignor.)
Randall-Faichney Company, The. (See Schurman, Elias W., assignor.)
Randall, Franklin S., Jersey City Heights, N. J., assignor to Peerless Insulated Wire and Cable Company, New York, N. Y. Wire-covering machine. No. 1,045,183; Nov. 26; Gaz. vol. 184; p. 832.
Randall, Harvey E., *et al.* (See Williamson, John, assignor.)
Randall, Herbert K., and S. C. Thompson, Manistee, Mich. Rack. No. 1,038,198; Sept. 10; Gaz. vol. 182; p. 374.
Randall, Karl C., Edgewood Park, and C. B. Gibson, Wilkinsburg, Pa., assignors to Westinghouse Electric and Manufacturing Company. Separating apparatus for liquids. No. 1,024,598; Apr. 30; Sp. p. 6166; Gaz. vol. 177; p. 1089.
Randall, Richard T. (See Hottmann, Charles W., assignor.)
Randall Telephone Manufacturing Company. (See Adams-Randall, Charles, assignor.)
Randall, William P., Le Roy, N. Y. Ventilator and draft-regulator. No. 1,042,600; Oct. 29; Gaz. vol. 183; p. 1120.
Randel, Frank L., Brooklyn, N. Y. Preserving food. No. 1,039,802; Oct. 1; Gaz. vol. 183; p. 45.
Randerson, John P. (See Hanna, John and A. H., assignors.)
Randerson, John P., Albany, N. Y. Automobile-fender. No. 1,021,796; Apr. 2; Sp. p. 84; Gaz. vol. 177; p. 17.
Randle, Julia E., *et al.* (See Randle, Millard F., assignor.)
Randle, Millard F., Mobile, Ala., assignor of one-fourth to M. A. V. Roberts, one-fourth to L. Roberts, Mineral Wells, five one-hundredths to R. O. Braswell and forty-five one-hundredths to J. E. Randle, Fort Worth, Tex. Device for hanging wall-paper. No. 1,017,019; Feb. 13; Sp. p. 1747; Gaz. vol. 175; p. 305.
Randleman, Zouave S., Des Moines, Iowa. Baling-press. No. 1,045,184; Nov. 26; Gaz. vol. 184; p. 833.
Randolph, Alfred, Salem, Ohio. Gas-engine. No. 1,046,491; Dec. 10; Gaz. vol. 185; p. 279.
Randolph, Charles W., Vivian, La. Oil-well casing and packing therefor. No. 1,043,723; Nov. 5; Gaz. vol. 184; p. 238.
Randolph, Isham, Riverside, Ill. Constructing walls of concrete. No. 1,047,987; Dec. 24; Gaz. vol. 185; p. 859.
Randolph, Jeptha B., Omaha, Nebr. Ink-well. No. 1,040,754; Oct. 8; Gaz. vol. 183; p. 400.
Randolph, Leonard M., Newark, N. J. Insulator. No. 1,035,231; Aug. 13; Gaz. vol. 181; p. 308.
Randolph, Smith M., Oak Park, Ill. Nailing-strip. No. 1,021,847; Apr. 2; Sp. p. 206; Gaz. vol. 177; p. 34.
Raney, Estelle C., Columbus, Ohio. Automatic circuit-breaker. No. 1,041,161; Oct. 15; Gaz. vol. 183; p. 569.
Raney, Thomas H., Chapel Hill, N. C. Window-screen. No. 1,025,721; May 7; Sp. p. 1361; Gaz. vol. 178; p. 211.
Ranger, Karl F., Battle Creek, Mich. Universal joint. No. 1,034,509; Aug. 6; Gaz. vol. 181; p. 37.
Rangnow, Otto, Philadelphia, Pa. Device for carrying garments. No. 1,014,905; Jan. 16; Sp. p. 4047; Gaz. vol. 174; p. 684.
Rankeillor, Alexander, Saco, Me., assignor, by mesne assignments, to Saco-Pettee Company, Newton, Mass. Clock for roving or spinning machinery or the like. No. 1,029,400; June 11; Sp. p. 2913; Gaz. vol. 179; p. 486.
Rankeillor, Alexander, Saco, Me., assignor, by mesne assignments, to Saco-Pettee Company, Newton, Mass. Shaft-bushing. No. 1,040,579; Oct. 8; Gaz. vol. 183; p. 338.
Rankin, Braxton C., Nettleton, Miss. Vehicle top-rest. No. 1,042,966; Oct. 29; Gaz. vol. 183; p. 1245.
Rankin, Ernest C., Franklin, N. C. Mail-exchange system. No. 1,034,648; Aug. 6; Gaz. vol. 181; p. 81.
Rankin, Hiram S., Cripple Creek, Colo., assignor to Rankin Quartz Mill Company, Indianola, Nebr. Quartz-mill. No. 1,044,571; Nov. 19; Gaz. vol. 184; p. 592.
Rankin, John R., and J. H. Larrick, La Junta, Colo.; said Larrick assignor to said Rankin. Metallic culvert. No. 1,013,440; Jan. 2; Sp. p. 771; Gaz. vol. 174; p. 122.
Rankin Quartz Mill Company. (See Rankin, Hiram S., assignor.)
Ranney, John T., Fort Kent, Me. Road-rutter. No. 1,016,775; Feb. 6; Sp. p. 1221; Gaz. vol. 175; p. 188.
Ranney, Leo, New York, N. Y. Type-bar. No. 1,048,878; Dec. 31; Gaz. vol. 185; p. 1201.
Ransom, Albert, assignor to Chicago Feather Duster Company, Chicago, Ill. Mop-head. No. 1,019,701; Mar. 5; Sp. p. 1506; Gaz. vol. 176; p. 233.
Ransom & Randolph Company, The. (See Brophy, Reuben C., assignor.)
Ransom, Willard G., Davenport, Iowa. Variable-load brake mechanism. No. 1,016,289; Feb. 6; Sp. p. 117; Gaz. vol. 175; p. 19.
Ransome, Arthur W., New York, N. Y. Concrete-mixer. No. 1,019,917; Mar. 12; Sp. p. 1956; Gaz. vol. 176; p. 339.
Ransome, Bernard, Oakland, Cal. Portable loading-trap. No. 1,021,332; Mar. 26; Sp. p. 4929; Gaz. vol. 176; p. 901.
Ransome, Ernest L., New York, N. Y. Apparatus for laying concrete courses. No. 1,042,822; Oct. 29; Gaz. vol. 183; p. 1197.
Ranson, Charles, Paris, France. Preparation of zincate solutions. No. 1,023,964; Apr. 23; Sp. p. 4712; Gaz. vol. 177; p. 836.

Alphabetical list of patentees—Continued.

Ranson, George, Jr., assignor of one-fourth to A. E. Sawyer, Jacksonville, Fla. Signaling system for railways. No. 1,032,773; July 16; Gaz. vol. 180; p. 748.
Ranson, Walter C., Cleveland, Ohio. Smoking-pipe. No. 1,043,869; Nov. 12; Gaz. vol. 184; p. 320.
Ranson, Walter C., Cleveland, Ohio. Flushing apparatus. No. 1,046,492; Dec. 10; Gaz. vol. 185; p. 280.
Ranz, Jacob, St. Louis, Mo. Variable-speed mechanism. No. 1,020,573; Mar. 19; Sp. p. 3337; Gaz. vol. 176; p. 593.
Ranz, Jacob, assignor to E. W. Grove, St. Louis, Mo. Hose-toe-protector-forming machine. No. 1,030,920; July 2; Gaz. vol. 180; p. 23.
Ranz, Jacob, assignor, by mesne assignments, to R. T. Winterman, St. Louis, Mo. Printing device. No. 1,033,073; July 16; Gaz. vol. 180; p. 849.
Ranza, Attilio, Rome, Italy. Automatically-deformable balloon. No. 1,031,148; July 2; Gaz. vol. 180; p. 106.
Raoux, Julian P., Rhodelia, Ky. Candle-holder. No. 1,027,901; May 28; Sp. p. 6201; Gaz. vol. 178; p. 1063.
Rape, William E., Catawissa, Pa. Coat-hanger. No. 1,017,688; Feb. 20; Sp. p. 3174; Gaz. vol. 175; p. 571.
Raper, Alfred. (See Chapman, Charles E., assignor.)
Rapid Systems Company of California. (See Kellaway, Newman W., assignor.)
Rapid Transit Navigation Company, The. (See Berry, Harry C., assignor.)
Rapin, Constant H. (See Duboux and Rapin.)
Rapp, Axel G. J., assignor to Link-Belt Company, Chicago, Ill. Ball-and-socket bearing. No. 1,025,304; May 7; Sp. p. 423; Gaz. vol. 178; p. 69.
Rapp, Peter G., and P. H. King, Chicago, Ill. Nut-lock. No. 1,019,277; Mar. 5; Sp. p. 610; Gaz. vol. 176; p. 95.
Rapp, Peter G., and P. H. King, Chicago, Ill. Spring-wheel. No. 1,040,755; Oct. 8; Gaz. vol. 183; p. 400.
Rapp, Wagman Manufacturing Company. (See Rapp, William M., assignor.)
Rapp, William M., Philadelphia, Pa. Linotype-machine. No. 1,029,714; June 18; Sp. p. 3585; Gaz. vol. 179; p. 633.
Rapp, William M., Atlanta, Ga. Street-service box for water and gas. No. 1,032,503; July 16; Gaz. vol. 180; p. 655.
Rapp, William M., assignor to Rapp, Wagman Manufacturing Company, Philadelphia, Pa. Linotype-machine. No. 1,027,566; May 28; Sp. p. 5441; Gaz. vol. 178; p. 951.
Rapp, William M., Philadelphia, Pa., assignor to Rapp-Wagman Manufacturing Company. Linotype-machine. No. 1,047,289; Dec. 17; Gaz. vol. 185; p. 589.
Rapson, Hobart D., Philadelphia, Pa. Swab. No. 1,047,703; Dec. 17; Gaz. vol. 185; p. 735.
Rare Metals Mining and Milling Company, The. (See Bleecker, Warren F., assignor.)
Rarey, William E., Burlington, Wash. Square. No. 1,040,239; Oct. 1; Gaz. vol. 183; p. 189.
Rasch, Gustave C., Burlington, Wis. Fastening. No. 1,042,601; Oct. 29; Gaz. vol. 183; p. 1120.
Rasch, Gustave E. (See Barton, Delbert E., assignor.)
Raschig, Friedrich, and M. Köbner, assignors to F. Raschig, Ludwigshafen-on-the-Rhine, Germany. Manufacture of chlorinated phenol esters and of oxybenzyl alcohols, oxybenzaldehydes, and oxybenzoic acids. No. 1,023,758; Apr. 16; Sp. p. 4200; Gaz. vol. 177; p. 738.
Rasmussen, Andrew, Racine Junction, Wis. Feeding means for power hacksaw-machines. No. 1,025,305; May 7; Sp. p. 424; Gaz. vol. 178; p. 69.
Rasmussen, Gerhardt, New York, N. Y. Aeroplane. No. 1,035,103; Aug. 6; Gaz. vol. 181; p. 234.
Rasmussen, Hans C. (See Mannon and Rasmussen.)
Rasmussen, Harald H. (See Williams and Rasmussen.)
Rasmussen, Martin, Racine, Wis. Hat-pin fastener and guard. No. 1,014,176; Jan. 9; Sp. p. 2406; Gaz. vol. 174; p. 403.
Rasmussen, Martin, Racine, Wis. Door-lock. No. 1,015,070; Jan. 16; Sp. p. 4406; Gaz. vol. 174; p. 740.
Rasmussen, Martin, Racine, Wis. Shoe. No. 1,025,099; Apr. 30; Sp. p. 7203; Gaz. vol. 177; p. 1262.
Rasmussen, Martin, assignor to E. J. Schowalter, Racine, Wis. Spike. No. 1,022,261; Apr. 2; Sp. p. 1072; Gaz. vol. 177; p. 171.
Rast, Marcus J. D., St. Louis, Mo. Combined sash-fastener and antirattling device. No. 1,038,199; Sept. 10; Gaz. vol. 182; p. 374.
Rastetter, William C., Fort Wayne, Ind. Steering-wheel rim. No. 1,040,013; Oct. 1; Gaz. vol. 183; p. 114.
Ratcliff, Oscar. (See Guild, George H., assignor.)
Ratcliff, William A., Seattle, Wash. Lock. No. 1,037,531; Sept. 3; Gaz. vol. 182; p. 120.
Ratcliff, William H., Newark, N. J., assignor to Hydro-Carbon Machine Company. Carbureter. No. 1,046,014; Dec. 3; Gaz. vol. 185; p. 73.
Rateau, Auguste C. E., Paris, France. Means for cooling turbo-compressors or blowers. No. 1,038,200; Sept. 10; Gaz. vol. 182; p. 374.
Rateau, Auguste C. E., Paris, France. Means for increasing the height of suction of pumps. No. 1,038,201; Sept. 10; Gaz. vol. 182; p. 375.
Rath, Ernst J. (See Laska, Zitscher, and Rath.)
Rath, Ernst J. (See Zitscher and Rath.)
Rath, Paul. (See Düchting, Wilhelm, assignor.)
Rathbun, Henry E., assignor, by mesne assignments, to Tilden-Thurber Company, Providence, R. I. Garment-hanger. No. 1,018,584; Feb. 27; Sp. p. 5266; Gaz. vol. 175; p. 915.
Rau, Frank. (See Rau, Joseph, assignor.)
Rau, Joseph, assignor of one-half to F. Rau, Fayette, Iowa. Automatic calf-feeder. No. 1,019,087; Mar. 5; Sp. p. 178; Gaz. vol. 176; p. 29.
Rau, Joseph, assignor of one-half to F. Rau, Fayette, Iowa. Stanchion and trip-lever. No. 1,020,710; Mar. 19; Sp. p. 3635; Gaz. vol. 176; p. 639.
Rauch, Harry E. (See Rauch, Henry and H. E.)
Rauch, Henry and H. E., Mount Vernon, N. Y. Apparatus for removing pitch from casks and the like. No. 1,040,410; Oct. 8; Gaz. vol. 183; p. 278.
Rauch and Lang Carriage Company, The. (See Cookingham and Hertner, assignors.)
Rauch, Otto, Truscot, Tex. Umbrella-holder. No. 1,020,846; Mar. 19; Sp. p. 3918; Gaz. vol. 176; p. 685.
Rauchenecker, Joseph, Chicago, Ill. Fountain-pen. No. 1,020,221; Mar. 12; Sp. p. 2594; Gaz. vol. 176; p. 440.
Raughtigan, Michael, assignor of one-half to W. H. Oat, Norwich, Conn. Garment-hanger. No. 1,022,504; Apr. 9; Sp. p. 1582; Gaz. vol. 177; p. 283.
Rauh, Leopold. (See Dana, William H., assignor.)
Raupach, Fritz, Pulsnitz, Germany. Safety-pin. No. 1,028,784; June 4; Sp. p. 1539; Gaz. vol. 179; p. 240.
Rausch, Edward. Del Norte, Colo. Bottle-stopper. No. 1,046,015; Dec. 3; Gaz. vol. 185; p. 73.
Rauschenbach, Theodore, Evansville, Ind. Concrete-mixer. No. 1,018,779; Feb. 27; Sp. p. 5672; Gaz. vol. 175; p. 980.
Rauschenbach, Theodore, Evansville, Ind. Machine for forming and finishing concrete and cement curbs and gutters. No. 1,018,780; Feb. 27; Sp. p. 5673; Gaz. vol. 175; p. 980.
Rausseau, Coatsworth E., assignor of one-half to B. Allen, Clearwater, Fla. Non-refillable bottle. No. 1,015,635; Jan. 23; Sp. p. 5618; Gaz. vol. 174; p. 961.
Raven, Artie L., Vista Grande, Cal. Auto-fender. No. 1,043,460; Nov. 5; Gaz. vol. 184; p. 149.
Raven, William, Leicester, England. Web-cutter for circular-knitting machines. No. 1,048,879; Dec. 31; Gaz. vol. 185; p. 1201.
Ravert, William I. (See Drake and Ravert.)
Ravert, William I., assignor to A. W. Drake, Lattimer Mines, Pa. Water and shot feed coupling. No. 1,026,880; May 21; Sp. p. 3945; Gaz. vol. 178; p. 679.
Ravigneaux, Pol, Neuilly-sur-Seine, France. Winding-indicator. No. 1,035,104; Aug. 6; Gaz. vol. 181; p. 235.
Rawdon, George L., Cleveland, Ohio. Telegraph-repeater. No. 1,048,209; Dec. 24; Gaz. vol. 185; p. 933.
Rawitser, Fred, *et al.* (See Capwell, Courtland G., assignor.)
Rawitzer, Albert H., Omaha, Nebr. Pneumatic-tire protector. No. 1,029,027; June 11; Sp. p. 2086; Gaz. vol. 179; p. 359.
Rawle, John. (See Rawle, Randolph R. and J.)
Rawle, Randolph R. and J., Chicago, Ill. Apparatus for aerial navigation. No. 1,025,306; May 7; Sp. p. 429; Gaz. vol. 178; p. 70.
Rawlings, Arthur D., St. Louis, Mo. Merchandise-display card. No. 1,032,024; July 9; Gaz. vol. 180; p. 448.
Rawlings, John J., Putney, London, and G. Sweetser, Upper Norwood, London, England. Electric switch. No. 1,030,207; June 18; Sp. p. 4656; Gaz. vol. 179; p. 800.
Rawlings Manufacturing Company. (See Whitley, William P., assignor.)
Rawson, Edward, Cincinnati, Ohio. Curing meat. No. 1,033,269; July 23; Gaz. vol. 180; p. 955.
Rawson, Grant I., and L. B. Shultz, assignors to Pilley Packing & Flue Brush Manufacturing Company, St. Louis, Mo. Clip for miners' lamps. No. 1,014,025; Jan. 9; Sp. p. 2095; Gaz. vol. 174; p. 352.
Rawstrom, Donald, *et al.* (See Fitzgerald, James J., assignor.)
Rawstrom, Henry, *et al.* (See Fitzgerald, James J., assignor.)
Ray, Agnes, Oakland, Cal. Corset. No. 1,031,197; July 2; Gaz. vol. 180; p. 124.
Ray, Albert D., Cleveland, Ohio. Resilient vehicle-wheel. No. 1,042,035; Oct. 22; Gaz. vol. 183; p. 900.
Ray, Albert D., and C. N. Russell, Cleveland, Ohio. Sanitary bottle-closure. No. 1,038,651; Sept. 17; Gaz. vol. 182; p. 566.
Ray, Carry S., Dublin, Tex. Wheel-straightener. No. 1,039,193; Sept. 24; Gaz. vol. 182; p. 767.
Ray, Edward L., Agency, Iowa. Handle-fastening for picks and other tools. No. 1,048,096; Dec. 24; Gaz. vol. 185; p. 896.
Ray, George H., Belvidere, Ill. Hand die-stock. No. 1,045,885; Dec. 3; Gaz. vol. 185; p. 31.
Ray, Henry T., Hudson, N. Y. Bottle-stopper. No. 1,039,592; Sept. 24; Gaz. vol. 182; p. 908.
Ray, Joseph, Oreana, Ill. Metal basket. No. 1,046,016; Dec. 3; Gaz. vol. 185; p. 73.
Ray, Joshua R. and T., Manistee, Mich. Chipping-machine. No. 1,039,441; Sept. 24; Gaz. vol. 182; p. 854.
Ray, Paul J., Lakewood, Ohio. Automatic starting device for single-phase induction-motors. No. 1,024,807; Apr. 30; Sp. p. 6610; Gaz. vol. 177; p. 1163.

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Ray, Ross L., *et al.* (See Arundel, Clarence E., assignor.)
Ray, Thomas. (See Ray, Joshua R. and T.)
Ray, Thomas B., and W. Laford, New York, N. Y. Electric drier. No. 1,021,704; Mar. 26; Sp. p. 5706; Gaz. vol. 176; p. 1026.
Ray, Thomas P. (See Ray, William J., assignor.)
Ray, William J., Louisville, Ky., assignor of one-half to T. P. Ray, Kenilworth, Ill. Plastering-machine. No. 1,040,253; Oct. 1; Gaz. vol. 183; p. 195.
Ray, William M., Toppenish, Wash. Holder for wrapping-papers. No. 1,043,626; Nov. 5; Gaz. vol. 184; p. 206.
Raybourn, Claud, and F. W. Hertel, Okemah, Okla. Cultivator. No. 1,047,564; Dec. 17; Gaz. vol. 185; p. 686.
Raydure, Charles F. (See McCoubrie and Raydure.)
Raymaker, James H. (See Raymaker, Martin and J. H.)
Raymaker, James H., Sheboygan, Wis. Valve. No. 1,028,134; June 4; Sp. p. 120; Gaz. vol. 179; p. 18.
Raymaker, Martin and J. H., Sheboygan, Wis. Engine stop mechanism. No. 1,014,669; Jan. 16; Sp. p. 3521; Gaz. vol. 174; p. 604.
Raymond, Alonzo C. (See Reynolds and Raymond.)
Raymond, Charles E., Boston, Mass. Gearing. No. 1,033,468; July 23; Gaz. vol. 180; p. 1019.
Raymond, Colis, Windsor, Conn. Fire-signal device. No. 1,026,769; May 21; Sp. p. 3703; Gaz. vol. 178; p. 641.
Raymond, Conness T., assignor of one-half to J. W. Pax, Chicago, Ill. Chain-guard for vehicle-wheels. No. 1,025,159; May 7; Sp. p. 103; Gaz. vol. 178; p. 18.
Raymond, Ed B., and C. R. Watson, Wichita, Kans. Fluid-hydrocarbon burner. No. 1,039,194; Sept. 24; Gaz. vol. 182; p. 767.
Raymond, George A., Midland, assignor to F. G. Evans, trustee, Battle Creek, Mich. Wire-fence machine. No. 1,025,307; May 7; Sp. p. 436; Gaz. vol. 178; p. 70.
Raymond, Harry K., Akron, Ohio, assignor, by mesne assignments, to The B. F. Goodrich Company. Tire fabric. No. 1,043,143; Nov. 5; Gaz. vol. 184; p. 34.
Raymond, John W., assignor to The Air Friction Carburetor Company, Dayton, Ohio. Carbureter. No. 1,037,834; Sept. 3; Gaz. vol. 182; p. 219.
Raymond, Joseph A. (See Guimont, Joseph W., assignor.)
Raymond, Joseph A., assignor to The F. H. Hill Co., Chicago, Ill. Box-handle or the like. No. 1,027,067; May 21; Sp. p. 4412; Gaz. vol. 178; p. 746.
Raymond, Joseph A. H., Montreal, Quebec, Canada. Moving platform for theaters. No. 1,040,411; Oct. 8; Gaz. vol. 183; p. 278.
Rayner, Louis S., Caergwrle, England. Mine or lift cage safety gripping apparatus. No. 1,031,819; July 9; Gaz. vol. 180; p. 379.
Raynor, Albert T., Findlay, Ohio. Piano-truck. No. 1,035,903; Aug. 20; Gaz. vol. 181; p. 577.
Raynor, Frank L., Southampton, N. Y. Electric-lamp fixture. No. 1,020,711; Mar. 19; Sp. p. 3636; Gaz. vol. 176; p. 639.
Ré, Marcellin M., Paris, France. Apparatus for preventing fraudulent refilling of liquid-receptacles. No. 1,047,446; Dec. 17; Gaz. vol. 185; p. 642.
Rea, John H. B., La Fayette, Ga. Chair-seat. No. 1,047,447; Dec. 17; Gaz. vol. 185; p. 643.
Reach, Milton B., Springfield, Mass., assignor to A. G. Spalding & Bros. Manf'g. Co. Exercising apparatus, vaulting-horse. No. 1,013,685; Jan. 2; Sp. p. 1333; Gaz. vol. 174; p. 206.
Reach, Milton B., Springfield, Mass., assignor to A. G. Spalding & Bros. Manf'g. Co. Flying or traveling ring. No. 1,013,686; Jan. 2; Sp. p. 1337; Gaz. vol. 174; p. 207.
Reach, Milton B., Springfield, Mass., assignor to A. G. Spalding & Bros. Manf'g. Co. Gymnasium apparatus. No. 1,015,208; Jan. 16; Sp. p. 4663; Gaz. vol. 174; p. 787.
Reach, Milton B., Springfield, Mass., assignor to A. G. Spalding & Bros. Manf'g Co. Parallel bars. No. 1,032,425; July 16; Gaz. vol. 180; p. 629.
Reach, Milton B., Springfield, Mass., assignor to A. G. Spalding & Bros. Manfg. Co. Exercising apparatus (controller for vertical adjustment). No. 1,045,611; Nov. 26; Gaz. vol. 184; p. 985.
Reach, Milton B., Chicopee, Mass., assignor to A. G. Spalding & Bros. Manf'g. Co. Exercising apparatus, (marking device.) No. 1,035,904; Aug. 20; Gaz. vol. 181; p. 577.
Reach, Milton B., Chicopee, Mass., assignor to A. G. Spalding & Bros. Manf'g Co. Giant-stride. No. 1,042,271; Oct. 22; Gaz. vol. 183; p. 977.
Reach, Milton B. and W. F., Springfield, Mass., assignors to A. G. Spalding & Bros. Manf'g. Co. Gymnasium apparatus with clamping device. No. 1,013,687; Jan. 2; Sp. p. 1338; Gaz. vol. 174; p. 207.
Reach, Robert, Springfield, Mass. Gymnasium rowing apparatus. No. 1,015,071; Jan. 16; Sp. p. 4407; Gaz. vol. 174; p. 741.
Reach, Robert, Philadelphia, Pa., assignor to International Gymnasium Supply Company, Springfield, Mass. Gymnasium apparatus. No. 1,046,329; Dec. 3; Gaz. vol. 185; p. 185.
Reach, William F. (See Reach, Milton B. and W. F.)
Read, Balfour, Bedford, England. Internal-combustion engine. No. 1,041,162; Oct. 15; Gaz. vol. 183; p. 569.
Read, Charles, Catonsville, Md. Carton-sealing machine. No. 1,032,774; July 16; Gaz. vol. 180; p. 749.
Read, Daniel, Cottage Grove, Oreg. Detachable caster. No. 1,017,799; Feb. 20; Sp. p. 3471; Gaz. vol. 175; p. 610.
Read, Fred A., Lynn, Mass., assignor to The Reece Button Hole Machine Company, Boston, Mass. Buttonhole-sewing machine. No. 1,048,210; Dec. 24; Gaz. vol. 185; p. 933.
Read, George F., London, England, assignor to R. Hoe and Co., New York, N. Y. Means for controlling and directing moving sheets or webs. No. 1,015,836; Jan. 30; Sp. p. 6041; Gaz. vol. 174; p. 1054.
Read, Guy C., Davenport, Toronto, Ontario, Canada. Railway-train air-pipe-coupling system. No. 1,018,342; Feb. 20; Sp. p. 4640; Gaz. vol. 175; p. 798.
Read, Knut A., Oskaloosa, Iowa. Vehicle-wheel. No. 1,026,829; May 21; Sp. p. 3822; Gaz. vol. 178; p. 661.
Read, Lewis L., and M. O. Dowell, San Diego, Cal. Wave-motor. No. 1,035,049; Aug. 6; Gaz. vol. 181; p. 215.
Read Machinery Company, The. (See De Huff, Walter, assignor.)
Read, Willard L., Seattle, Wash. Stump-burner. No. 1,031,372; July 2; Gaz. vol. 180; p. 183.
Reade, Edgar S., *et al.* (See McStay, William F., assignor.)
Reading Hardware Company. (See Mason, George N., assignor.)
Reading Hardware Company. (See Spring, Frank J., assignor.)
Reading Iron Company. (See Boyer, Jesse I., assignor.)
Reading Standard Company. (See Schaeffer, William G., assignor.)
Readinger, Roy R., *et al.* (See Goodhart, Howard B., assignor.)
Reagan Clutch Company. (See Reagan, Edgar U. G., assignor.)
Reagan, Edgar U. G., assignor to Reagan Clutch Company, San Antonio, Tex. Combined elastic clutch and engine-starter. No. 1,024,099; Apr. 23; Sp. p. 5002; Gaz. vol. 177; p. 883.
Reagan, John C. (See Shepherd, James H., assignor.)
Reagan, Mendal F., assignor of one-fourth to A. P. St. John, Rocky Ford, Colo. Pump. No. 1,035,468; Aug. 13; Gaz. vol. 181; p. 392.
Reagin, James, Bloomfield, Iowa. Railway. No. 1,013,441; Jan. 2; Sp. p. 773; Gaz. vol. 174; p. 123.
Real, Joseph, East Highgate, Vt. Means for securing scythe-blades on handles. No. 1,024,650; Apr. 30; Sp. p. 6284; Gaz. vol. 177; p. 1107.
Reaman, Abraham G., Ringwood, Ontario, Canada. Vehicle-wheel. No. 1,027,434; May 28; Sp. p. 5177; Gaz. vol. 178; p. 907.
Reames, Charles H., Fort Worth, Tex. Boat-propeller. No. 1,032,426; July 16; Gaz. vol. 180; p. 630.
Reames, Charles H., assignor of one-fourth to D. Tubbs and one-fourth to R. Hill, Fort Worth, Tex. Trolley-catcher. No. 1,038,437; Sept. 10; Gaz. vol. 182; p. 458.
Reams, Joseph M., Grampian, Pa. Paper-clip. No. 1,044,572; Nov. 19; Gaz. vol. 184; p. 592.
Reamy, Christopher S., Waltham, Mass. Combination height and caliper gage. No. 1,033,346; July 23; Gaz. vol. 180; p. 980.
Rearick, Charles B., New York, N. Y. Shaft-packing. No. 1,047,988; Dec. 24; Gaz. vol. 185; p. 859.
Reason, Andrew. (See Warwick and Reason.)
Reay, Robert M., Massillon, Ohio. Drill-chuck. No. 1,045,886; Dec. 3; Gaz. vol. 185; p. 32.
Reber, Irvin. (See Kleckner, Harry T., assignor.)
Reber, John G., Chicago, Ill., assignor to The Sefton Manufacturing Company, Anderson, Ind. Packing or shipping box. No. 1,046,018; Dec. 3; Gaz. vol. 185; p. 74.
Reber, John G., deceased, Chicago, Ill.; O. S. Reber, administratrix, assignor to The Sefton Manufacturing Company, Anderson, Ind. Staple. No. 1,026,050; May 14; Sp. p. 2116; Gaz. vol. 178; p. 359.
Reber, John G., deceased; O. S. Reber, administratrix, assignor to The Sefton Manufacturing Company, Chicago, Ill. Folding box. No. 1,035,638; Aug. 13; Gaz. vol. 181; p. 449.
Reber, John G., deceased; O. S. Reber, administratrix, assignor to The Sefton Manufacturing Company, Chicago, Ill. Folding box. No. 1,040,984; Oct. 8; Gaz. vol. 183; p. 476.
Reber, John G., deceased; O. S. Reber, administratrix, assignor to The Sefton Manufacturing Company, Chicago, Ill. Folding box. No. 1,046,017; Dec. 3; Gaz. vol. 185; p. 74.
Reber, Olive S., administratrix. (See Reber, John G.)
Rebolige, Joseph, Donora, Pa. Rail-joint. No. 1,030,126; June 18; Sp. p. 4469; Gaz. vol. 179; p. 772.
Rebsch, Charles H., Newark, N. J. Fire-extinguisher. No. 1,049,147; Dec. 31; Gaz. vol. 185; p. 1294.
Recconi, Peter, San Francisco, Cal. Tire-clencher-ring lock. No. 1,046,855; Dec. 10; Gaz. vol. 185; p. 407.
Rechniewski, Stanislaw, St. Petersburg, Russia. Pneumatic caisson of ferroconcrete. No. 1,014,721; Jan. 16; Sp. p. 3633; Gaz. vol. 174; p. 621.

Alphabetical list of patentees—Continued.

Reck, Anders B., Hellerup, Denmark. Appliance for smokeless combustion. No. 1,029,083; June 11; Sp. p. 2210; Gaz. vol. 179; p. 377.
Reck, Anders B., Hellerup, Denmark. Hot-water heating installation. No. 1,031,290; July 2; Gaz. vol. 180; p. 155.
Reckenthaler, Jacob, Campia, Wis. Calk-machine. No. 1,032,703; July 16; Gaz. vol. 180; p. 725.
Recker, Adolph C., Oakville, assignor to Waterbury Mfg. Co., Waterbury, Conn. Capstan-screw. No. 1,024,100; Apr. 23; Sp. p. 5005; Gaz. vol. 177; p. 884.
Recker, Adolph C., Oakville, assignor to Waterbury Mfg. Co., Waterbury, Conn. Inverted burner. No. 1,035,639; Aug. 13; Gaz. vol. 181; p. 450.
Reckinger, Henry G., Aurora, Ill. Cement railway-tie. No. 1,029,318; June 11; Sp. p. 2712; Gaz. vol. 179; p. 459.
Recko, Josef, Bridgeport, Conn. Animal-trap. No. 1,020,448; Mar. 19; Sp. p. 3049; Gaz. vol. 176; p. 552.
Recktenwald, John, assignor of one-half to E. H. Struckmeyer, Nashville, Ill. Spring-motor. No. 1,037,316; Sept. 3; Gaz. vol. 182; p. 46.
Recometre Company of America. (See Kendall, William F., assignor.)
Recording Speedometer Company. (See Martin, Aubry H., assignor.)
Rectenwald, John J., Mount Oliver borough, Pa. Life-saving device. No. 1,023,759; Apr. 16; Sp. p. 4202; Gaz. vol. 177; p. 738.
Rectenwald, John J., Mount Oliver borough, Pa. Life-saving device. No. 1,034,142; July 30; Gaz. vol. 180; p. 1275.
Rectenwald, John J., Pittsburgh, Pa. Life-saving device. No. 1,044,244; Nov. 12; Gaz. vol. 184; p. 450.
Rector, Harry W., Washington, D. C. Lamp-lock. No. 1,037,317; Sept. 3; Gaz. vol. 182; p. 46.
Red Cross Vacuum Cleaner Company. (See De Mattia, Constant, assignor.)
Reddaway, Frank. (See Murphy, William, assignor.)
Redden, Alfred C., Millis, Mass. Pieced heel. No. 1,024,699; Apr. 30; Sp. p. 6383; Gaz. vol. 177; p. 1125.
Redding, Anderson, Juliette, Ga. Hoe. No. 1,034,834; Aug. 6; Gaz. vol. 181; p. 146.
Redditt, J. D., *et al.* (See Tatum, Franklin M., assignor.)
Reddy, Edmund M., Ossining, N. Y. Ceiling outlet-box. No. 1,032,504; July 16; Gaz. vol. 180; p. 655.
Reddy, John W., Geneva, N. Y. Nasal guard. No. 1,044,910; Nov. 19; Gaz. vol. 184; p. 711.
Redeker, George W., Wheeling, W. Va. Flushing apparatus for water-pipes. No. 1,016,521; Feb. 6; Sp. p. 664; Gaz. vol. 175; p. 100.
Redeker, George W., Wheeling, W. Va. Cleaning for water-pipes. No. 1,034,301; July 30; Gaz. vol. 180; p. 1330.
Redelmann, Ulrich G. (See Mitchell and Taggart, assignors.)
Redemann, Oscar F. H. (See Graham, James S., assignor.)
Redfield, Charles E., Okanogan, Wash., assignor of one-half to G. F. Rigby, Jr., Carlton, Mont. Current-motor. No. 1,020,574; Mar. 19; Sp. p. 3339; Gaz. vol. 176; p. 594.
Redfield, Edward E., Glendale, Oreg. Firearm. No. 1,031,373; July 2; Gaz. vol. 180; p. 183.
Redfield, Edward E., Glendale, Oreg. Firearm. No. 1,031,374; July 2; Gaz. vol. 180; p. 184.
Redfield, John V., Grosse Pointe Farms, and J. T. Bordley, Detroit, Mich. Liquid-meter. No. 1,016,361; Feb. 6; Sp. p. 273; Gaz. vol. 175; p. 43.
Redifer, Charles J., Kings Bridge, and H. H. Cantwell, Croton-on-Hudson, N. Y. Railway-tie. No. 1,041,670; Oct. 15; Gaz. vol. 183; p. 738.
Redin, Andrew W., assignor to W. F. & John Barnes Company, Rockford, Ill. Drilling-machine. No. 1,043,724; Nov. 5; Gaz. vol. 184; p. 239.
Redington, Edward H., Neodesha, Kans. Drive-gearing for power-presses. No. 1,032,940; July 16; Gaz. vol. 180; p. 803.
Redington, William H., Evanston, Ill. Stopper. No. 1,026,830; May 21; Sp. p. 3823; Gaz. vol. 178; p. 661.
Redlich, Alexander E., Chicago, Ill. Toy telephone. No. 1,037,532; Sept. 3; Gaz. vol. 182; p. 120.
Redlich, Berthold, assignor to Planiawerke Aktiengesellschaft für Kohlenfabrikation, Ratibor, Germany. Carbon electrode for electrical purposes. No. 1,018,003; Feb. 20; Sp. p. 3940; Gaz. vol. 175; p. 681.
Redlich, Berthold, assignor to Planiawerke Aktiengesellschaft für Kohlenfabrikation, Ratibor, Germany. Carbon electrode for electric furnaces. No. 1,048,581; Dec. 31; Gaz. vol. 185; p. 1097.
Redlich, Frank, Yankee, N. Mex. Horse-releaser. No. 1,043,971; Nov. 12; Gaz. vol. 184; p. 357.
Redman, Charles H., Newark, N. J. Clipper. No. 1,015,399; Jan. 23; Sp. p. 5098; Gaz. vol. 174; p. 879.
Redman, Edward E., Hampton, N. H. Double-soled turned shoe. No. 1,039,442; Sept. 24; Gaz. vol. 182; p. 854.
Redmon, Dillard, Washington, D. C. Boring-brace. No. 1,029,028; June 11; Sp. p. 2088; Gaz. vol. 179; p. 360.
Redmond, Frank J., Forest, Wis. Sanitary apparatus for animal-stalls. No. 1,030,921; July 2; Gaz. vol. 180; p. 24.
Redner, Webster E. (See Mershon and Redner.)
Redrup, Charles B., Cardiff, England. Piston-rod connection. No. 1,014,517; Jan. 9; Sp. p. 3133; Gaz. vol. 174; p. 521.
Redrup, Charles B., Cardiff, England. Fluid-pressure engine. No. 1,029,460; June 11; Sp. p. 3030; Gaz. vol. 179; p. 507.
Redrup, Charles B., Cardiff, England. Counterbalancing device for valves. No. 1,029,461; June 11; Sp. p. 3031; Gaz. vol. 179; p. 507.
Redrup, Charles B., Cardiff, England. Radial pitman for multiple-cylinder engines. No. 1,036,337; Aug. 20; Gaz. vol. 181; p. 728.
Redrup, Charles B., Canton, Cardiff, England. Magneto ignition device for internal-combustion engines. No. 1,030,127; June 18; Sp. p. 4470; Gaz. vol. 179; p. 772.
Redrup, Charles B., Canton, Cardiff, England. Cylinder for fluid-pressure engines or pumps. No. 1,030,681; June 25; Sp. p. 5909; Gaz. vol. 179; p. 1010.
Redrup, Charles B., Canton, Cardiff, England. Revolving-cylinder internal-combustion engine. No. 1,047,839; Dec. 17; Gaz. vol. 185; p. 782.
Reece Button Hole Machine Company, The. (See Connors, John W., assignor.)
Reece Button Hole Machine Company, The. (See Dormandy, Garry J., assignor.)
Reece Button Hole Machine Company. (See Kiewicz, John, assignor.)
Reece Button Hole Machine Company, The. (See Leveque, Bernard T., assignor.)
Reece Button Hole Machine Company, The. (See Read, Fred A., assignor.)
Reece, Juan H., assignor to Humphrey & Sons, Joliet, Ill. Wire-drawing block. No. 1,027,357; May 21; Sp. p. 4999; Gaz. vol. 178; p. 843.
Reece Shoe Machinery Company, The. (See Schoenky, August R., assignor.)
Reed, Adam, St. Joseph, Mo., and D. A. Reed, Bozeman, Mont.; said Adam Reed assignor of one-fourth to said D. A. Reed. Cushion-sole. No. 1,017,314; Feb. 13; Sp. p. 2406; Gaz. vol. 175; p. 409.
Reed, Boss, Russet, Okla. Automatic suction-distributer for ginning plants. No. 1,044,418; Nov. 12; Gaz. vol. 184; p. 509.
Reed, Charles. (See Snyder and Reed.)
Reed, Charles J., Philadelphia, Pa. Electrolytic process. No. 1,032,623; July 16; Gaz. vol. 180; p. 695.
Reed, Clarence C. (See Graves and Reed.)
Reed, Claude D., assignor to B. J. and C. A. Slonaker, Dayton, Ohio. Shade-bracket. No. 1,037,186; Aug. 27; Gaz. vol. 181; p. 1045.
Reed, Daniel A., and R. W. Snow, Dunkirk, N. Y. Circle-swing. No. 1,027,068; May 21; Sp. p. 4413; Gaz. vol. 178; p. 746.
Reed, David A. (See Reed, Adam and D. A.)
Reed, Ezra E., Tower, assignor of one-half to B. C. Noble, Sundance, Wyo. Stirrup. No. 1,044,419; Nov. 12; Gaz. vol. 184; p. 510.
Reed, Frank, and W. Rickardson, Falk, Cal. Recorder or indicator. No. 1,040,240; Oct. 1; Gaz. vol. 183; p. 190.
Reed, Homer C., assignor of one-half to F. D. Patterson and C. Gordon, Greenfield, Ohio. Combination-ladder. No. 1,013,515; Jan. 2; Sp. p. 924; Gaz. vol. 174; p. 148.
Reed International Manufacturing Company, The. (See Reed, James W., assignor.)
Reed, Isaac N., assignor of one-half to H. Morris, Jersey City, N. J. Hydrocarbon-gas turbine. No. 1,021,262; Mar. 26; Sp. p. 4795; Gaz. vol. 176; p. 875.
Reed, James W., assignor to The Reed International Manufacturing Company, Denver, Colo. Portable geared rotary tool. No. 1,026,831; May 21; Sp. p. 3824; Gaz. vol. 178; p. 662.
Reed, Jerry M., Fort Thomas, Ky., assignor to J. A. Fay & Egan Company, Cincinnati, Ohio. Board-support for sawing-machines. No. 1,037,835; Sept. 3; Gaz. vol. 182; p. 219.
Reed, John N., Cienfuegos, Cuba. Device for collecting samples of finely-divided material. No. 1,024,282; Apr. 23; Sp. p. 5414; Gaz. vol. 177; p. 948.
Reed Manufacturing Company. (See Rorig, Henry, assignor.)
Reed Manufacturing Company. (See Wright and Hubbard, assignors.)
Reed, Matthew H. (See Sanborn, Morton F., assignor.)
Reed, Milton E., Annapolis, Md., assignor to Locomotive Equipment Company. Smoke-consumer. No. 1,035,741; Aug. 13; Gaz. vol. 181; p. 482.
Reed, Roy, and A. D. Fiveshilling, Buffalo, N. Y. Wire twisting or splicing machine. No. 1,038,789; Sept. 17; Gaz. vol. 182; p. 614.
Reed, Samuel A., Brookston, Pa. Means for absorbing nicotin. No. 1,028,906; June 11; Sp. p. 1824; Gaz. vol. 179; p. 317.
Reed, Theodore A., *et al.* (See Alexander, Jesse, assignor.)
Reed, Thomas P., Wellston, Okla. Attachment for cotton-pickers' sacks. No. 1,022,699; Apr. 9; Sp. p. 2019; Gaz. vol. 177; p. 349.
Reed, William A., Chelsea, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Abrading-tool. No. 1,014,094; Jan. 9; Sp. p. 2240; Gaz. vol. 174; p. 375.

Alphabetical list of patentees—Continued.

Reed, William A., Chelsea, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Belt-shifter. No. 1,028,966; June 11; Sp. p. 1949; Gaz. vol. 179; p. 336.
Reed, William A., Chelsea, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Abrading device. No. 1,030,538; June 25; Sp. p. 5453; Gaz. vol. 179; p. 958.
Reed, William E., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Induction-motor. No. 1,013,218; Jan. 2; Sp. p. 280; Gaz. vol. 174; p. 45.
Reeder, John H., Caddo, Okla. Vise. No. 1,018,630; Feb. 27; Sp. p. 5352; Gaz. vol. 175; p. 928.
Reeder, Malcom M., Tuscola, Ill. Gate. No. 1,032,941; July 16; Gaz. vol. 180; p. 803.
Reeder, William J., Louisville, Ky. Trolley-adjuster. No. 1,028,785; June 4; Sp. p. 1540; Gaz. vol. 179; p. 240.
Reedy, Irven R., Dayton, Ohio. Carbureter. No. 1,044,245; Nov. 12; Gaz. vol. 184; p. 450.
Rees, George M., Louisville, Ky. Fob-holder. No. 1,019,990; Mar. 12; Sp. p. 2098; Gaz. vol. 176; p. 362.
Rees, Perley E., and B. L. Simpson, Kansas City, Mo. Casting-machine. No. 1,031,585; July 2; Gaz. vol. 180; p. 255.
Rees, Richard L., *et al.* (See Jones, William D., assignor.)
Rees, William A., *et al.* (See Jones, William D., assignor.)
Rees, William H., New York, N. Y. Automatic tempo-regulator. No. 1,032,624; July 16; Gaz. vol. 180; p. 696.
Reese, Clarence K., assignor to The Reese & Crittenden Co., Cleveland, Ohio. Combined mailing-card and frame. No. 1,038,652; Sept. 17; Gaz. vol. 182; p. 566.
Reese & Crittenden Co., The. (See Reese, Clarence K., assignor.)
Reese, Guy F., assignor of one-half to A. E. Cromwell and one-half to J. O. Smith, Fairmount, Ill. Trammel. No. 1,031,198; July 2; Gaz. vol. 180; p. 124.
Reese, Perley E., assignor to W. C. Renfrow, Kansas City, Mo. Adding-machine. No. 1,044,690; Nov. 19; Gaz. vol. 184; p. 635.
Reeser, Charles S., Windber, Pa. Curtain-fixture. No. 1,041,671; Oct. 15; Gaz. vol. 183; p. 739.
Reeve, Sidney A., Worcester, Mass., assignor, by mesne assignments, to C. P. Power Company, Newark, N. J. Apparatus for heating compressed air. No. 1,014,330; Jan. 9; Sp. p. 2756; Gaz. vol. 174; p. 458.
Reeves, Chester A., Laidlaw, Oreg. Wrench. No. 1,029,142; June 11; Sp. p. 2332; Gaz. vol. 179; p. 397.
Reeves, Clifton, assignor to Trenton Engine Co., Trenton, N. J. Oiling system for engines. No. 1,034,143; July 30; Gaz. vol. 180; p. 1275.
Reeves & Company. (See Clay, Harry C., assignor.)
Reeves & Company. (See Kailor, John N., assignor.)
Reeves, Edwin A., Milford, Conn. Mechanism for operating gas-meter valves. No. 1,035,905; Aug. 20; Gaz. vol. 181; p. 577.
Reeves, Ira L., South Natick, Mass. Target. No. 1,024,651; Apr. 30; Sp. p. 6286; Gaz. vol. 177; p. 1108.
Reeves, Ira L., South Natick, Mass. Timing device. No. 1,031,731; July 9; Gaz. vol. 180; p. 349.
Reeves, Ira L., Natick, Mass. Cleaning-stand. No. 1,033,194; July 23; Gaz. vol. 180; p. 928.
Reeves, Ira L., Natick, Mass. Target-projecting machine. No. 1,047,989; Dec. 24; Gaz. vol. 185; p. 860.
Reeves, James W., Burnsville, Miss. Ox-bow. No. 1,040,756; Oct. 8; Gaz. vol. 183; p. 401.
Reeves, John T., Grant, Okla. Brush-ax. No. 1,030,429; June 25; Sp. p. 5167; Gaz. vol. 179; p. 919.
Reeves, Milton O., Columbus, Ind. Governor for gas-engine valve-gears. No. 1,047,290; Dec. 17; Gaz. vol. 185; p. 589.
Reeves, Orevell C., *et al.* (See Dunn, Frank P., assignor.)
Reeves, Oscar F., Saginaw, Mich. Car-stake fastener. No. 1,047,291; Dec. 17; Gaz. vol. 185; p. 589.
Reeves, Timothy, Chicago, Ill. Mail-bag delivering and receiving apparatus. No. 1,035,742; Aug. 13; Gaz. vol. 181; p. 482.
Reeves, Walter R., East Providence, R. I. Rolling or reducing mill. No. 1,021,628; Mar. 26; Sp. p. 5572; Gaz. vol. 176; p. 1001.
Reeves, William E., Twisp, Wash. Cable-clamp. No. 1,046,330; Dec. 3; Gaz. vol. 185; p. 185.
Refractory Zinc Ore Treatment Company. (See Isherwood, Percy C. C., assignor.)
Regal, August, Vienna, Austria-Hungary. Electric jacquard apparatus. No. 1,017,063; Feb. 13; Sp. p. 1850; Gaz. vol. 175; p. 321.
Regal Shoe Company. (See Bliss and White, assignors.)
Regan, Cornelius J., Quincy, Mass. Grinding-mill. No. 1,020,712; Mar. 19; Sp. p. 3638; Gaz. vol. 176; p. 640.
Regan, Joseph C., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Valve mechanism for door-checks. No. 1,018,268; Feb. 20; Sp. p. 4503; Gaz. vol. 175; p. 773.
Regan, Patrick H., Nashville, Tenn. Swing. No. 1,026,179; May 14; Sp. p. 2397; Gaz. vol. 178; p. 404.
Regeczi, Joseph, Ironwood, Mich. Feed-bag. No. 1,023,681; Apr. 16; Sp. p. 4068; Gaz. vol. 177; p. 714.
Regenold, Frederick, Memphis, Tenn. Bale-tie buckle. No. 1,013,442; Jan. 2; Sp. p. 774; Gaz. vol. 174; p. 123.
Regenstein, Joseph, Atlanta, Ga. Folding box. No. 1,041,872; Oct. 22; Gaz. vol. 183; p. 846.
Regina Company, The. (See Koch, Henry, assignor.)
Regnard, Paul L. A., Paris, France. Automatic stabilizer for aeroplanes and the like. No. 1,015,837; Jan. 30; Sp. p. 6042; Gaz. vol. 174; p. 1055.
Regne, Julius L., Lakeville, Ohio. Curtain-fixture. No. 1,035,906; Aug. 20; Gaz. vol. 181; p. 578.
Regnier, Frederick, assignor to The Shredded Wheat Company, Niagara Falls, N. Y. Grain-shredding machine. No. 1,027,762; May 28; Sp. p. 5829; Gaz. vol. 178; p. 1015.
Rego, M. A., *et al.* (See Perry, Alfred H., assignor.)
Regondi, Giuseppe, New York, N. Y. Oil-lamp burner. No. 1,043,725; Nov. 5; Gaz. vol. 184; p. 239.
Regur, Winfield S., Des Moines, Iowa. Starting device for explosive-engines. No. 1,035,232; Aug. 13; Gaz. vol. 181; p. 308.
Reh, Rudolph H., and Y. Burgess, Washington, D. C. Closing means for sliding doors. No. 1,018,442; Feb. 27; Sp. p. 4888; Gaz. vol. 175; p. 865.
Rehak, James. (See Madigan and Rehak.)
Rehder, Josef H. von, Winfield, N. Y. Corner-bead for building construction. No. 1,035,278; Aug. 13; Gaz. vol. 181; p. 324.
Rehfuss, John G. (See Brewer, Tily, and Rehfuss.)
Rehfuss, Martin O. (See Brewer, Tily, and Rehfuss.)
Rehm, Frederick C., Detroit, Mich. Toy knitting device. No. 1,022,154; Apr. 2; Sp. p. 856; Gaz. vol. 177; p. 136.
Rehm, Irving R. (See Mahler, Albert J., assignor.)
Reiber, John, Huntington, Oreg. Wrench. No. 1,016,776; Feb. 6; Sp. p. 1223; Gaz. vol. 175; p. 188.
Reibstein, August, New York, N. Y. Game apparatus. No. 1,018,343; Feb. 20; Sp. p. 4642; Gaz. vol. 175; p. 798.
Reibstein, August, New York, N. Y. Game apparatus. No. 1,048,582; Dec. 31; Gaz. vol. 185; p. 1097.
Reich, Carl W. (See Buderer, Brönnle, and Reich.)
Reich, Max. (See Weislowits and Reich.)
Reichardt, Louie F., Massena, Iowa. Ladder. No. 1,021,629; Mar. 26; Sp. p. 5573; Gaz. vol. 176; p. 1001.
Reiche, Hermann, Millstone, N. J. Pencil. No. 1,021,112; Mar. 26; Sp. p. 4457; Gaz. vol. 176; p. 825.
Reichel, Alvin S., assignor of one-half to Point Marion Machine & Manufacturing Company, Point Marion, Pa. Machine for manufacturing glassware. No. 1,020,222; Mar. 12; Sp. p. 2594; Gaz. vol. 176; p. 441.
Reichelsheimer, Fred, *et al.* (See Cave and Buck, assignors.)
Reichelt, Carl, Klingenthal, Germany. Keyboard musical instrument with chart. No. 1,017,589; Feb. 13; Sp. p. 2969; Gaz. vol. 175; p. 501.
Reichenbach, Frank, Joliet, Ill. Hat-pin-point protector. No. 1,013,814; Jan. 2; Sp. p. 1578; Gaz. vol. 174; p. 251.
Reichenbach, George T., Seattle, Wash. Sanitary cup. No. 1,048,583; Dec. 31; Gaz. vol. 185; p. 1098.
Reichenbach, George T., New Castle, Del., assignor to H. O. Peck Automobile Wheel Company, Incorporated, Portland, Oreg. Vehicle wheel-hub. No. 1,014,177; Jan. 9; Sp. p. 2407; Gaz. vol. 174; p. 403.
Reichenbach, George T., and H. O. Peck, assignors to H. O. Peck Automobile Wheel Company, Incorporated, Portland, Oreg. Vehicle wheel-rim. No. 1,017,466; Feb. 13; Sp. p. 2745; Gaz. vol. 175; p. 462.
Reichenbach, George T., and J. G. Peck, assignors to H. O. Peck Automobile Wheel Company, Incorporated, Portland, Oreg. Resilient spoke. No. 1,029,401; June 11; Sp. p. 2915; Gaz. vol. 179; p. 487.
Reichenstein, Aaron, Minneapolis, Minn. Power-propelled sled. No. 1,023,965; Apr. 23; Sp. p. 4713; Gaz. vol. 177; p. 836.
Reichert, Auguste, Geneva, Switzerland. Boiler for cooking apparatus. No. 1,042,143; Oct. 22; Gaz. vol. 183; p. 935.
Reichert, Edward T., Jr., New York, N. Y. Compensating steering-gear. No. 1,022,207; Apr. 2; Sp. p. 966; Gaz. vol. 177; p. 155.
Reichert, Paul F. (See Ayling and Reichert.) (Reissue.)
Reichhelm, George L., Detroit, Mich. Coin-controlled mechanism. No. 1,045,185; Nov. 26; Gaz. vol. 184; p. 833.
Reichl, Caspar, Milwaukee, Wis. Light-reflector for automobile-lamps. No. 1,040,412; Oct. 8; Gaz. vol. 183; p. 279.
Reichmann, Frank. (See Durstewitz, Otto, assignor.)
Reichner, L. Irving. (See MacIndoe, John F., assignor.)
Reid, Alban H., Philadelphia, Pa. Centrifugal separating-machine. No. 1,019,836; Mar. 12; Sp. p. 1764; Gaz. vol. 176; p. 309.
Reid, Albert D., West Chester, Pa. Rim. No. 1,042,478; Oct. 29; Gaz. vol. 183; p. 1077.
Reid, Albert D., West Chester, Pa. Rim. No. 1,042,479; Oct. 29; Gaz. vol. 183; p. 1077.
Reid, Andrew H., Toronto, Ontario, Canada. Brake-shoe. No. 1,018,209; Feb. 20; Sp. p. 4388; Gaz. vol. 175; p. 754.
Reid, Andrew H., Toronto, Ontario, Canada. Device for holding inserts. No. 1,021,069; Mar. 26; Sp. p. 4379; Gaz. vol. 176; p. 813.

Alphabetical list of patentees—Continued.

Reid, Angus S., St. Kilda, Melbourne, Victoria, Australia. Milking apparatus. No. 1,044,246; Nov. 12; Gaz. vol. 184; p. 451.
Reid, Belle, St. Louis, Mo. Water-heater. No. 1,020,621; Mar. 19; Sp. p. 3439; Gaz. vol. 176; p. 608.
Reid, Burt, U. S. Navy. Flying-machine. No. 1,025,482; May 7; Sp. p. 835; Gaz. vol. 178; p. 131.
Reid, George E., Meridian, Miss. Locking device for engine-trucks. No. 1,026,366; May 14; Sp. p. 2828; Gaz. vol. 178; p. 468.
Reid, George F. (See Tryon and Reid.)
Reid, George H., Mecca, Cal. Seal. No. 1,026,701; May 21; Sp. p. 3541; Gaz. vol. 178; p. 617.
Reid, Harry, Clinton, Ind. Thill-coupling. No. 1,037,533; Sept. 3; Gaz. vol. 182; p. 121.
Reid, James H., Newark, N. J., assignor to G. Goodwin, Ottawa, Canada. Electric induction-furnace. No. 1,021,478; Mar. 26; Sp. p. 5277; Gaz. vol. 176; p. 951.
Reid, James H., Newark, N. J., assignor, by mesne assignments, to The Patents Purchasing Company, Appleton, Wis. Electric refining-crucible. No. 1,026,281; May 14; Sp. p. 2623; Gaz. vol. 178; p. 439.
Reid, James W., New York, N. Y. Traction and non-skid device. No. 1,017,909; Feb. 20; Sp. p. 3739; Gaz. vol. 175; p. 650.
Reid, John M., Red Rock, Tex. Railway-track brace. No. 1,048,097; Dec. 24; Gaz. vol. 185; p. 896.
Reid, Joseph G., Atlanta, Ga. Cotton-seed-delinting machine. No. 1,014,518; Jan. 9; Sp. p. 3135; Gaz. vol. 174; p. 521.
Reid, Marcellus, Cleveland, Ohio. Electroplating apparatus. No. 1,028,786; June 4; Sp. p. 1541; Gaz. vol. 179; p. 240.
Reid, Pettis A. and W. V., Richmond, Ind; said W. V. Reid assignor to said Pettis A. Reid. Wire-fence machine. No. 1,047,292; Dec. 17; Gaz. vol. 185; p. 590.
Reid, Pettis A. and W. V., Richmond, Ind.; said W. V. Reid assignor to said Pettis A. Reid. Clamp-drum for wire-fence machines. No. 1,047,565; Dec. 17; Gaz. vol. 185; p. 686.
Reid, Reginald. (See Cunningham and Reid.)
Reid, Reginald, *et al.* (See Garton, Cyril S., assignor.)
Reid, Robert, Philadelphia, Pa. Pulley. No. 1,033,934; July 30; Gaz. vol. 180; p. 1202.
Reid, Robert, Victoria, British Columbia, Canada. Guide-map. No. 1,037,984; Sept. 10; Gaz. vol. 182; p. 305.
Reid, Robert C. H. (See Cefalo and Reid.)
Reid, Walter V. (See Reid, Pettis A. and W. V.)
Reid, William, Caulfield, Victoria, Australia. Controlling device for railway-signals and the like. No. 1,027,435; May 28; Sp. p. 5178; Gaz. vol. 178; p. 907.
Reid, William C., assignor to Elkhart Musical Instrument Company, Elkhart, Ind. Valve for wind musical instruments. No. 1,023,330; Apr. 16; Sp. p. 3388; Gaz. vol. 177; p. 605.
Reid, William S., Center township, Emmet county, Iowa. Tank-closure. No. 1,047,990; Dec. 24; Gaz. vol. 185; p. 860.
Reidel, Erna, Mannheim, Germany. Manufacturing artificial belt or sole leather and like products. No. 1,048,342; Dec. 24; Gaz. vol. 185; p. 978.
Reidel, Louis, Tampico, Ill. Cement-mixer. No. 1,046,109; Dec. 3; Gaz. vol. 185; p. 107.
Reif, Henry A. (See Reif, Henry A. and H. A.)
Reif, Henry A. and H. A., Casa Verdugo, Cal. Wave-motor. No. 1,035,469; Aug. 13; Gaz. vol. 181; p. 392.
Reiff, William H., Philadelphia, Pa., assignor of one-half to W. L. R. Clime, Burlington, N. J. Burglar-alarm. No. 1,016,034; Jan. 30; Sp. p. 6469; Gaz. vol. 174; p. 1125.
Reiger, Paul J., Midland, Tex. Switch-throwing mechanism. No. 1,021,949; Apr. 2; Sp. p. 422; Gaz. vol. 177; p. 68.
Reigh, Martin S., Pittsburgh, Pa. Attachment for horse-shoes. No. 1,033,469; July 23; Gaz. vol. 180; p. 1020.
Reiling, August W., Fort Wayne, Ind. Train-controlling device. No. 1,048,880; Dec. 31; Gaz. vol. 185; p. 1202.
Reilly, Bernard F. (See Evans and Reilly.)
Reilly, Edgar J. (See Sherman, McKelvey, and Reilly.)
Reilly, James R. (See Fuller and Reilly.)
Reilly, Joseph J., Newark, N. J. Washtub. No. 1,039,803; Oct. 1; Gaz. vol. 183; p. 45.
Reilly, Matthew A., and T. J. Aldridge, Rochester, N. Y. Splitting-machine. No. 1,013,897; Jan. 9; Sp. p. 1803; Gaz. vol. 174; p. 309.
Reilly, Thomas A. (See Fuller and Reilly.)
Reimann, Otto. (See Fox, Joseph P., assignor.)
Reimann, Paul, Trebwitz, near Greiz, Germany, assignor of one-half to F. W. Rogler, Vienna, Austria-Hungary. Preparing paste used as weavers' glue or for other similar dressing purposes. No. 1,021,744; Mar. 26; Sp. p. 5791; Gaz. vol. 176; p. 1039.
Reimer, Abraham, Steinbach, Manitoba, Canada. Bag-holder. No. 1,024,360; Apr. 23; Sp. p. 5545; Gaz. vol. 177; p. 972.
Rein, Charles M., *et al.* (See Schulz, Wilhelm, assignor.)
Rein, Frederick E., and E. W. Broomall, assignors to Root Dairy Supply Company, Westgrove, Pa. Apparatus for transferring heat. No. 1,031,732; July 9; Gaz. vol. 180; p. 349.
Rein, Robert, Berlin, Germany. Calculating-machine. No. 1,028,135; June 4; Sp. p. 121; Gaz. vol. 179; p. 18.
Rein, Robert, Schlachtensee, near Berlin, assignor to Edmund Boehm & Co., Berlin, Germany. Coat-hanger. No. 1,014,976; Jan. 16; Sp. p. 4217; Gaz. vol. 174; p. 709.
Reina, Stephen, New York, N. Y. Broiler attachment for ranges and other heaters. No. 1,036,148; Aug. 20; Gaz. vol. 181; p. 661.
Reinach, Louis, assignor of one-third to J. Curry, New York, N. Y. Overshoe for horses. No. 1,037,534; Sept. 3; Gaz. vol. 182; p. 121.
Reinartz, Johann J., Troisdorf, Germany. Sectional heater. No. 1,030,246; June 18; Sp. p. 4730; Gaz. vol. 179; p. 814.
Reinehr, John, Savanna, assignor to Rail Laying Machine Company, Chicago, Ill. Device for preventing the tilting of rail-laying machines. No. 1,031,869; July 9; Gaz. vol. 180; p. 398.
Reinehr, John, Savanna, assignor to Rail Laying Machine Company, Chicago, Ill. Implement for handling railway-rails. No. 1,031,964; July 9; Gaz. vol. 180; p. 429.
Reinehr, John, Savanna, assignor to Rail Laying Machine Company, Chicago, Ill. Rail-laying apparatus. No. 1,038,654; Sept. 17; Gaz. vol. 182; p. 566.
Reinert, Frank T., Aurora, Ill. Wire-anchor. No. 1,033,617; July 23; Gaz. vol. 180; p. 1069.
Reinert, Peter J., Pittsburgh, Pa. Cradle. No. 1,014,848; Jan. 16; Sp. p. 3927; Gaz. vol. 174; p. 665.
Reinhard, Henry, assignor to Tubes Limited, Aston, Birmingham, England. Manufacture of metal tubes, rods, or the like. No. 1,029,513; June 11; Sp. p. 3125; Gaz. vol. 179; p. 524.
Reinhardt, James H., East Orange, N. J. Bottle-filling machine. No. 1,048,881; Dec. 31; Gaz. vol. 185; p. 1202.
Reinhardt, Louis W., Brockton, assignor to George E. Belcher Last Company, Stoughton, Mass. Shoe-form. No. 1,023,395; Apr. 16; Sp. p. 3513; Gaz. vol. 177; p. 625.
Reinhardt, Otto, and J. Hoerlin, assignors to Chemische Fabriken vorm. Weiler-ter Meer, Uerdingen-on-the-Rhine, Germany. Manufacturing black sulfurized coloring-matters. No. 1,026,881; May 21; Sp. p. 3948; Gaz. vol. 178; p. 680.
Reinicke, Gustav, Schöneberg, near Berlin, assignor to Actien Gesellschaft für Anilin Fabrikation, Berlin, Germany. Producing ω-para-alkyloxyphenylethylamins and their n-alkyl derivatives. No. 1,016,092; Jan. 30; Sp. p. 6601; Gaz. vol. 174; p. 1146.
Reininger, Henry, New Orleans, La. Barrel soaking and rinsing machine. No. 1,046,856; Dec. 10; Gaz. vol. 185; p. 407.
Reinoehl, Charles W., deceased, (H. B. Reinoehl, executrix,) and W. M. Henderson, Steelton, Pa. Railway structure. No. 1,017,315; Feb. 13; Sp. p. 2407; Gaz. vol. 175; p. 410.
Reinoehl, Charles W., deceased, Steelton, and B. L. Weaver, Middletown; H. B. Reinoehl, Steelton, Pa., executrix. Anticreeper for railway-rails. No. 1,020,370; Mar. 12; Sp. p. 2871; Gaz. vol. 176; p. 487.
Reinoehl, Helen B., executrix. (See Reinoehl and Henderson.)
Reinoehl, Helen B., executrix. (See Reinoehl and Weaver.)
Reinstein, Hans G., Hanover, Germany. Corrugating cardboard. No. 1,016,093; Jan. 30; Sp. p. 6602; Gaz. vol. 174; p. 1147.
Reinstein, Michael, London, England. Washable brush. No. 1,031,586; July 2; Gaz. vol. 180; p. 255.
Reis, Harry, *et al.* (See Ostergren, Oscar P., assignor.)
Reis, Jared M. B., New Castle, Pa. Coal-leveling apparatus. No. 1,031,375; July 2; Gaz. vol. 180; p. 184.
Reis, John E., Tampa, Fla. Shaving-brush. No. 1,042,967; Oct. 29; Gaz. vol. 183; p. 1245.
Reisbach, Gustave B., Milwaukee, Wis. Electric switch. No. 1,022,049; Apr. 2; Sp. p. 635; Gaz. vol. 177; p. 101.
Reisbach, Gustave B., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Electric switch. No. 1,033,935; July 30; Gaz. vol. 180; p. 1202.
Reisenhus, Peter P., and V. Sutherland, assignors to The American Glove Company, Chicago, Ill. Glove. No. 1,021,210; Mar. 26; Sp. p. 4673; Gaz. vol. 176; p. 857.
Reisik, Peder M., Brooklyn, N. Y. Hose-coupling. No. 1,031,587; July 2; Gaz. vol. 180; p. 255.
Reisinger, Edward G. (See Hohn and Reisinger.)
Reiss, George T. (See Teas and Reiss.)
Reiss, Joseph M., Portland, Oreg. Safety-catch for cylinder-locks. No. 1,045,323; Nov. 26; Gaz. vol. 184; p. 881.
Reissig, Oskar, Charlottenburg, Germany. Water-cooled heat-power engine. No. 1,029,889; June 18; Sp. p. 3981; Gaz. vol. 179; p. 693.
Reissner, Hans, Aix-la-Chapelle, Germany. Coupling of screw-propellers, screw-ventilators, fly-wheels, and other rotating machinery. No. 1,025,589; May 7; Sp. p. 1086; Gaz. vol. 178; p. 168.
Reisz, Eugen. (See Lieben and Reisz.)
Reiter, Nicholas, Racine, Wis. Milking-stool. No. 1,021,263; Mar. 26; Sp. p. 4797; Gaz. vol. 176; p. 875.

Alphabetical list of patentees—Continued.

Reith, George C., assignor to E. F. Henson, trustee, Philadelphia, Pa. Coin-selector. No. 1,042,968; Oct. 29; Gaz. vol. 183; p. 1246.
Reith, George C., and G. F. Flade, assignors to E. F. Henson, trustee, Philadelphia, Pa. Coin-selector. No. 1,038,655; Sept. 17; Gaz. vol. 182; p. 567.
Reitz, Charles C., Jeannette, Pa. Hat presser and shaper. No. 1,018,680; Feb. 27; Sp. p. 5455; Gaz. vol. 175; p. 946.
Reitz, Charles E., Reitz, Pa. Ventilator. No. 1,018,585; Feb. 27; Sp. p. 5267; Gaz. vol. 175; p. 915.
Rekstad, Hans A. (See Pederson, Peder T., assignor.)
Reliance Ball-Bearing Door Hanger Company. (See Cossey, Myron, assignor.)
Reliance Ball-Bearing Door Hanger Company. (See Franklin, Hubert F., assignor.)
Reliance Manufacturing Company. (See Goodman, Milton F., assignor.)
Reliance Speedometer Company. (See Blanchard, Leon E., assignor.)
Remaly, Fred, Roscoe, Iowa. Fruit-picker. No. 1,026,770; May 21; Sp. p. 3706; Gaz. vol. 178; p. 642.
Rembert, Samuel, Memphis, Tenn. Exhaust-fan. No. 1,037,659; Sept. 3; Gaz. vol. 182; p. 162.
Remde, Edward H., Cleveland, Ohio. Window-fastener. No. 1,013,898; Jan. 9; Sp. p. 1804; Gaz. vol. 174; p. 309.
Rembof, Charles, New York, N. Y. Curtain-pole ring. No. 1,022,873; Apr. 9; Sp. p. 2390; Gaz. vol. 177; p. 408.
Remington Arms and Ammunition Company. (See Hoagland, Frank O., assignor.)
Remington Arms and Ammunition Company. (See Newitt, Edward J. D., assignor.)
Remington, Charles F., Chicago, Ill., assignor to The American Type Founders Company, Jersey City, N. J. Means for trimming burs from the cut ends of printers' rules. No. 1,025,308; May 7; Sp. p. 441; Gaz. vol. 178; p. 71.
Remington, Thomas A., Crystal Lake, Ill. Combination-tool. No. 1,029,767; June 18; Sp. p. 3685; Gaz. vol. 179; p. 650.
Remington Typewriter Company. (See Barr, John H., assignor.)
Remington Typewriter Company. (See Barron, Walter J., assignor.)
Remington Typewriter Company. (See Woodward, Oscar, assignor.)
Remington Typewriter Company. (See Yaw, Clio B., assignor.)
Remler, Clifford. (See Gaynor, Miller, and Remler.)
Rempe, Edward H., and F. M. Ross, Oakley, Ohio. Automatic sash-lock. No. 1,023,442; Apr. 16; Sp. p. 3599; Gaz. vol. 177; p. 642.
Remy, Benjamin P. and F. I., assignors to The Remy Electric Company, Anderson, Ind. Sound-producing device. No. 1,016,035; Jan. 30; Sp. p. 6470; Gaz. vol. 174; p. 1126.
Remy, Benjamin P. and F. I., F. P. McDermott, Jr., and I. J. Reuter, assignors to Remy Electric Company, Anderson, Ind. Electric generator. No. 1,024,225; Apr. 23; Sp. p. 5300; Gaz. vol. 177; p. 929.
Remy Electric Company. (See Pyle, Robert H., assignor.)
Remy Electric Company, The. (See Remy, Benjamin P. and F. I., assignors.)
Remy Electric Company. (See Remy, McDermott, and Reuter, assignors.)
Remy, Frank I. (See Remy, Benjamin P. and F. I.)
Remy, Frank I. (See Remy, McDermott, and Reuter.)
Renard, Jorje, London, England. Knapsack and carrier therefor. No. 1,040,413; Oct. 8; Gaz. vol. 183; p. 279.
Renaud, Felix D., Chicago, Ill. Flashing-block. No. 1,039,320; Sept. 24; Gaz. vol. 182; p. 812.
Renaud, Frank G., Syracuse, N. Y. Food-receptacle. No. 1,015,400; Jan. 23; Sp. p. 5099; Gaz. vol. 174; p. 879.
Renault, Louis, Billancourt, France. Means for lubricating the transmission-gear of motor-vehicles. No. 1,020,054; Mar. 12; Sp. p. 2227; Gaz. vol. 176; p. 384.
Renault, Louis, Billancourt, France. Transmission-gearing. No. 1,033,618; July 23; Gaz. vol. 180; p. 1069.
Rendahl, Ragnar H., Stockholm, Sweden, assignor to Gesellschaft Für Drahtlose Telegraphie m. b. H., Berlin, Germany. Means for varying the period of oscillation of two oscillatory circuits. No. 1,014,722; Jan. 16; Sp. p. 3634; Gaz. vol. 174; p. 622.
Rendle, Thomas, Ottawa, Ill. Last and last-support. No. 1,023,760; Apr. 16; Sp. p. 4204; Gaz. vol. 177; p. 738.
René, Otto H., Honolulu, Hawaii, assignor to California Fruit Canners Association, San Francisco, Cal. Machine for removing the pulp from previously-separated pineapple-peel. No. 1,034,144; July 30; Gaz. vol. 180; p. 1275.
Renek, Frank, New York, N. Y. Piano-casing. No. 1,024,950; Apr. 30; Sp. p. 6904; Gaz. vol. 177; p. 1213.
Renfrew, William, Brookline, Mass. Hand knot-tier. No. 1,041,163; Oct. 15; Gaz. vol. 183; p. 570.
Renfro, William C. (See Renfro, William T. and W. C.)
Renfro, William T. and W. C., Hillsboro, Tex. Wheel sulky-plow. No. 1,035,233; Aug. 13; Gaz. vol. 181; p. 308.
Renfrow, William C. (See Reese, Perley E., assignor.)
Rengstorf, Herman F., Waterloo, Ill. Collapsible drinking-cup. No. 1,037,985; Sept. 10; Gaz. vol. 182; p. 306.
Renkel, George W. (See Boivin, Joseph, assignor.)
Renken, Anton F., Kramer, Nebr. Gopher-trap. No. 1,033,936; July 30; Gaz. vol. 180; p. 1203.
Renner, Jacob, Rockwell City, Iowa. Holder for ice-cream cones. No. 1,044,911; Nov. 19; Gaz. vol. 184; p. 711.
Renner, John, Kansas City, Mo. Awning. No. 1,018,004; Feb. 20; Sp. p. 3941; Gaz. vol. 175; p. 681.
Renner, John, Kansas City, Mo. Bail-ring for tent-poles. No. 1,019,991; Mar. 12; Sp. p. 2099; Gaz. vol. 176; p. 362.
Renner, Philip, Cincinnati, Ohio. Knife-guard. No. 1,020,055; Mar. 12; Sp. p. 2228; Gaz. vol. 176; p. 384.
Rennerfelt, Gustaf, New York, N. Y. Friction-gearing. No. 1,017,910; Feb. 20; Sp. p. 3741; Gaz. vol. 175; p. 651.
Rennerfelt, Gustaf, assignor of one-half to C. J. Kintner, New York, N. Y. Friction-gearing. No. 1,017,911; Feb. 20; Sp. p. 3743; Gaz. vol. 175; p. 651.
Rennie, Frank M., New Rochelle, N. Y. Shock-absorber. No. 1,037,052; Aug. 27; Gaz. vol. 181; p. 1001.
Rennie, George J., Aspinwall, Pa. Cleaning device for water-cooled-wall furnaces. No. 1,035,050; Aug. 6; Gaz. vol. 181; p. 216.
Rennie, Robert J., Mooers Forks, assignor of one-half to W. F. Kennedy, Champlain, N. Y. Car-door fastener. No. 1,021,211; Mar. 26; Sp. p. 4674; Gaz. vol. 176; p. 857.
Reno, Emile V., and J. A. C. Bois, La Garenne-Colombes, France, assignors, by mesne assignments, to Sphinx Motor Company, New York, N. Y. Internal-combustion engine. No. 1,035,234; Aug. 13; Gaz. vol. 181; p. 309.
Reno, Jesse W., New York, N. Y. Freight-carrier. No. 1,018,586; Feb. 27; Sp. p. 5269; Gaz. vol. 175; p. 915.
Reno, William R., Louisville, Ky. Emergency-brake. No. 1,023,682; Apr. 16; Sp. p. 4069; Gaz. vol. 177; p. 714.
Renschak, William, New York, N. Y. Button-making machine. No. 1,016,441; Feb. 6; Sp. p. 468; Gaz. vol. 175; p. 72.
Renshaw, William. (See Kennedy, Martin, assignor.)
Renstrom, Erik O., Strandquist, Minn. Folding crate. No. 1,018,521; Feb. 27; Sp. p. 5118; Gaz. vol. 175; p. 892.
Rentz, George, Wells, Minn. Fountain-pen. No. 1,036,149; Aug. 20; Gaz. vol. 181; p. 661.
Renville, Sampson H., Peever, S. D. Neck-yoke end coupling. No. 1,015,247; Jan. 16; Sp. p. 4742; Gaz. vol. 174; p. 800.
Renville, Sampson H., Peever, S. D. Neck-yoke center. No. 1,015,248; Jan. 16; Sp. p. 4743; Gaz. vol. 174; p. 800.
Replogle, Daniel B., Berkeley, Cal. Water-wheel. No. 1,036,003; Aug. 20; Gaz. vol. 181; p. 608.
Replogle, Harry H., Montreal, Quebec, Canada. Demountable wheel-rim. No. 1,024,746; Apr. 30; Sp. p. 6483; Gaz. vol. 177; p. 1114.
Republic Metalware Company, The. (See Foster, James F., assignor.)
Republic Metalware Company, The. (See Smith, Anna J., assignor.)
Republic Rubber Company, The. (See Mell, Tod J., assignor.)
Requa Motor Company. (See Coles, David H., assignor.)
Requa Motor Company. (See Coles and Charavay, assignors.)
Res Manufacturing Company. (See Kaufman, Adam, assignor.)
Resch, Casper M., Fowler, Ill. Ironing-table. No. 1,015,072; Jan. 16; Sp. p. 4410; Gaz. vol. 174; p. 741.
Resch, Francis X., Wanette, Okla. Boat. No. 1,024,419; Apr. 23; Sp. p. 5693; Gaz. vol. 177; p. 991.
Resch, Ralph R. (See Lambert and Resch.)
Resch, Ralph R., Trinidad, Colo. Valve for rotary steam-engines. No. 1,048,735; Dec. 31; Gaz. vol. 185; p. 1151.
Reser, Harry B., Raynesford, Mont. Car-seal. No. 1,041,672; Oct. 15; Gaz. vol. 183; p. 739.
Reshaw, George O., Olathe, Colo. Combined mop holder and wringer. No. 1,024,951; Apr. 30; Sp. p. 6907; Gaz. vol. 177; p. 1213.
Resilia Limited. (See Brown and Berry, assignors.)
Resilient Motor Wheel Syndicate Limited, The. (See Murray, Esther, assignor.) (Reissue.)
Ressencourt, Eugène G., assignor to E. H. Chamberlain, trustee, St. Louis, Mo. Apparatus for making fruit extracts. No. 1,017,800; Feb. 20; Sp. p. 3473; Gaz. vol. 175; p. 611.
Ressencourt, Eugène G., deceased; H. Troll, administrator, assignor to F. B. Chamberlain Company, St. Louis, Mo. Cherry extract and making same. No. 1,036,338; Aug. 20; Gaz. vol. 181; p. 728.
Resslar, Daniel. (See Oakes and Resslar.)
Ressler, Moriss. (See Nadler and Ressler.)
Ressler, Moriss. (See Pascal, Israel, assignor.)
Restein, Clement. (See Restein, Jules, assignor.)
Restein, Jules, assignor to C. Restein, Philadelphia, Pa. Packing. No. 1,020,661; Mar. 19; Sp. p. 3523; Gaz. vol. 176; p. 621.
Reston, Henry P., Oakley, Ohio. Expansible screw. No. 1,033,120; July 23; Gaz. vol. 180; p. 902.

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Reston, Henry P., assignor to The Cincinnati Planer Company, Oakley, Ohio. Safety ratchet-lever. No. 1,018,080; Feb. 20; Sp. p. 4114; Gaz. vol. 175; p. 709.
Reston, Henry P., assignor to The Cincinnati Planer Company, Oakley, Ohio. Gearing. No. 1,018,081; Feb. 20; Sp. p. 4116; Gaz. vol. 175; p. 709.
Restucci, Giuseppe, Naples, Italy. Steam-valve separator. No. 1,019,278; Mar. 5; Sp. p. 612; Gaz. vol. 176; p. 95.
Retter, Henry H., *et al.* (See Stockford, Thomas E., assignor.)
Rettig, George, Jr. (See Nuernberger and Rettig.)
Rettig, George P., Richmond, Ind. Carbureter. No. 1,040,414; Oct. 8; Gaz. vol. 183; p. 279.
Rettmann, Charles H., Chicago, Ill. Electrowhistle-alarm. No. 1,017,689; Feb. 20; Sp. p. 3175; Gaz. vol. 175; p. 572.
Rettmann, Charles H., Chicago, Ill. Electroresponsive vibrator movement. No. 1,038,438; Sept. 10; Gaz. vol. 182; p. 458.
Reusher, Frank E., Pittsburgh, Pa. Pipe-coupling. No. 1,021,264; Mar. 26; Sp. p. 4798; Gaz. vol. 176; p. 875.
Reuss, Arthur E., Cincinnati, and O. Schnitzler, Remington, Ohio. Gearing. No. 1,034,145; July 30; Gaz. vol. 180; p. 1276.
Reuss, Arthur E., Cincinnati, and O. Schnitzler, Remington, Ohio. Gearing. No. 1,034,146; July 30; Gaz. vol. 180; p. 1276.
Reuter, Irving J. (See Remy, McDermott, and Reuter.)
Reuter, Jean G. F., Waterbury, Conn. Spray-vibrator. No. 1,038,656; Sept. 17; Gaz. vol. 182; p. 567.
Reuter, Ludwig H., Tompkinsville, N. Y. Composition for disinfecting and other purposes. No. 1,027,000; May 21; Sp. p. 4233; Gaz. vol. 178; p. 722.
Reuter, Otto, Schlebusch-Manfort, Germany, assignor to E. I. du Pont de Nemours Powder Company, Wilmington, Del. Granular explosive, especially suitable for the preparation of pressed pieces and making the same. No. 1,036,906; Aug. 27; Gaz. vol. 181; p. 951.
Reuter, Theodor, Winterthur, Switzerland. Motor arrangement for vehicles of all kinds. No. 1,046,331; Dec. 3; Gaz. vol. 185; p. 185.
Reuterdahl, Arvid, Boise, Idaho. Culvert. No. 1,028,829; June 4; Sp. p. 1634; Gaz. vol. 179; p. 255.
Reuterdahl, Arvid, Boise, Idaho. Culvert. No. 1,028,830; June 4; Sp. p. 1635; Gaz. vol. 179; p. 255.
Reutter, Frederick, assignor to Scovill Manufacturing Company, Waterbury, Conn. Powder-can top. No. 1,021,479; Mar. 26; Sp. p. 5279; Gaz. vol. 176; p. 952.
Reutter, Frederick, assignor to Scovill Manufacturing Company, Waterbury, Conn. Powder-can top. No. 1,021,480; Mar. 26; Sp. p. 5281; Gaz. vol. 176; p. 952.
Reutter, Frederick, assignor to Scovill Manufacturing Company, Waterbury, Conn. Powder-can top. No. 1,021,481; Mar. 26; Sp. p. 5282; Gaz. vol. 176; p. 953.
Reutter, Frederick, assignor to Scovill Manufacturing Company, Waterbury, Conn. Powder-can top. No. 1,021,482; Mar. 26; Sp. p. 5284; Gaz. vol. 176; p. 953.
Reutter, Frederick, assignor to Scovill Manufacturing Company, Waterbury, Conn. Hinged cap for powder-cans. No. 1,021,483; Mar. 26; Sp. p. 5286; Gaz. vol. 176; p. 953.
Revel, William G., Jr., Washington, D. C. Bottle-cap. No. 1,043,359; Nov. 5; Gaz. vol. 184; p. 113.
Revell, Alexander H. (See Murray, Thomas P., assignor.)
Revell, Alexander H., Chicago, Ill. Ventilated hat. No. 1,036,004; Aug. 20; Gaz. vol. 181; p. 608.
Revell, Alexander H., and T. P. Murray, Chicago, Ill.; said Murray assignor to said Revell. Stove. No. 1,043,252; Nov. 5; Gaz. vol. 184; p. 73.
Revell, Alexander H., and T. P. Murray, Chicago, Ill.; said Murray assignor to said Revell. Fireless-cooking apparatus. No. 1,043,360; Nov. 5; Gaz. vol. 184; p. 113.
Revell, Ralph W., Raymond, Wash. Grate. No. 1,019,837; Mar. 12; Sp. p. 1767; Gaz. vol. 176; p. 310.
Revell, William W., Walden, N. Y. Vehicle wheel-tire No. 1,029,632; June 18; Sp. p. 3384; Gaz. vol. 179; p 603.
Revell, William W., Walden, N. Y. Vehicle-wheel. No. 1,029,633; June 18; Sp. p. 3385; Gaz. vol. 179; p. 603.
Revere Rubber Company. (See Drobinski, Francis J., assignor.)
Reverse Draft Furnace Co., The. (See Brunswick, William F., assignor.)
Reversible Gas-Engine Company. (See Robinson, Edward P., assignor.)
Reversible Gas-Engine Company, The. (See Whaley, William B. S., assignor.)
Reversible Gas-Engine Company, The. (See Whaley and Galusha, assignors.)
Reversible Gas-Engine Company. (See Whaley and Robinson, assignors.)
Revis, James, Raton, N. Mex. Railway-rail joint. No. 1,037,986; Sept. 10; Gaz. vol. 182; p. 306.
Revolute Machine Company. (See Everett and McAdam, assignors.)
Rewi, Andrew, Baltimore, Md. Curtain-pole. No. 1,029,890; June 18; Sp. p. 3982; Gaz. vol. 179; p. 693.
Rex Aerial Navigating and Construction Company of New Jersey, The. (See Rex, Cleveland A., assignor.)
Rex, Cleveland A., Amarillo, Tex., assignor to The Rex Aerial Navigating and Construction Company of New Jersey, Phoenix, Ariz. Aerial vehicle. No. 1,013,219; Jan. 2; Sp. p. 283; Gaz. vol. 174; p. 46.
Rex, Lewis F. (See Fink and Rex.)
Rex, Ralph K., Cleveland, Ohio. Safety signal-switch stand. No. 1,042,969; Oct. 29; Gaz. vol. 183; p. 1246.
Rexford, Ley P., St. Louis, Mo. Knockdown brooder. No. 1,015,073; Jan. 16; Sp. p. 4411; Gaz. vol. 174; p. 741.
Reyam, David. (See Dilks, Reyam, and Du Pont.)
Reybert, Harry A. (See Hagerstrom, John A., assignor.)
Reymond, Henry. (See Berger, Reymond, and Horn.)
Reymond, Max, Payerne, Switzerland. Apparatus comprising fans for generating progressing and ascending movements of a body in a fluid medium. No. 1,024,226; Apr. 23; Sp. p. 5303; Gaz. vol. 177; p. 929.
Reynaud, Georges, Paris, France. Industrial manufacture of artificial rubber. No. 1,032,428; July 16; Gaz. vol. 180; p. 630.
Reynders, Arthur B., and J. E. Mateer, Wilkinsburg, Pa., assignors to Westinghouse Electric and Manufacturing Company. Electrical apparatus. No. 1,034,929; Aug. 6; Gaz. vol. 181; p. 176.
Reynders, John V. W., Steelton, Pa. Screen. No. 1,048,882; Dec. 31; Gaz. vol. 185; p. 1203.
Reynders, John V. W., Steelton, Pa. Screen. No. 1,048,883; Dec. 31; Gaz. vol. 185; p. 1203.
Reyngoudt, Marinus, Hasbrouck Heights, N. J. Life-saving apparatus for submarines. No. 1,036,150; Aug. 20; Gaz. vol. 181; p. 662.
Reynolds, Alexander J., Cleveland, Ohio. Ticket-holder. No. 1,046,644; Dec. 10; Gaz. vol. 185; p. 334.
Reynolds, Alva L., assignor to Common Sense Pile Protector Company, Longbeach, Cal. Wooden-pile protector. No. 1,036,907; Aug. 27; Gaz. vol. 181; p. 951.
Reynolds, Blake O. (See Reynolds, William A. and B. O.)
Reynolds, Charles C., Mills, Nebr. Hay-loader. No. 1,031,027; July 2; Gaz. vol. 180; p. 63.
Reynolds, Charles H., Rochester, N. Y. Mold for making packing-rings. No. 1,023,761; Apr. 16; Sp. p. 4204; Gaz. vol. 177; p. 738.
Reynolds, Charles H., Rochester, N. Y. Packing-ring. No. 1,026,457; May 14; Sp. p. 3021; Gaz. vol. 178; p. 498.
Reynolds, Charles S. (See Garner, James C., assignor.)
Reynolds, Clark, Boston, Mass., assignor of one-fourth to A. J. Dawley, Wyoming, R. I. Rotary cardboard and paper printing press. No. 1,013,516; Jan. 2; Sp. p. 926; Gaz. vol. 174; p. 149.
Reynolds Electric Flasher Manufacturing Company. (See Seessle, Gustav A., assignor.)
Reynolds, Ernest C., Sanford, Colo. Beet-blocker. No 1,017,316; Feb. 13; Sp. p. 2411; Gaz. vol. 175; p. 410.
Reynolds, Frank, Syracuse, N. Y. Starting device for explosive-engines. No. 1,016,522; Feb. 6; Sp. p. 666; Gaz. vol. 175; p. 100.
Reynolds, Frank, Winston, Mont. Pail. No. 1,042,272; Oct. 22; Gaz. vol. 183; p. 977.
Reynolds, Frank B., Providence, R. I. Collar-supporter. No. 1,024,865; Apr. 30; Sp. p. 6726; Gaz. vol. 177; p. 1184.
Reynolds, Frank B., Providence, R. I. Combined hat-pin holder and point-protector. No. 1,045,887; Dec. 3; Gaz. vol. 185; p. 32.
Reynolds, George S., San Diego, Cal. Floor finishing and surfacing machine. No. 1,022,505; Apr. 9; Sp. p. 1583; Gaz. vol. 177; p. 283.
Reynolds, Harold H., Hamburg, Conn. Wick-trimmer for lamp-burners. No. 1,040,757; Oct. 8; Gaz. vol. 183; p. 401.
Reynolds, James W., Chester, Nebr. Rail-joint. No. 1,033,937; July 30; Gaz. vol. 180; p. 1203.
Reynolds, John A., Winchester, Kans. Attachment for corn-harvesters. No. 1,045,324; Nov. 26; Gaz. vol. 184; p. 882.
Reynolds, John C., Derrick City, Pa. Safety-pin. No. 1,038,202; Sept. 10; Gaz. vol. 182; p. 375.
Reynolds, John E., *et al.* (See Kastengren, Gustavus E., assignor.)
Reynolds, John N. (See Bullard and Reynolds.)
Reynolds, Lynus C., Washington, D. C. Card-index. No. 1,047,840; Dec. 17; Gaz. vol. 185; p. 782.
Reynolds, Marc M., New York, N. Y., assignor to American Independent Telephone Company. Telephone attachment. No. 1,047,293; Dec. 17; Gaz. vol. 185; p. 590.
Reynolds, Marcus M., New York, N. Y., assignor to American Independent Telephone Company. Telephone instrument. No. 1,047,294; Dec. 17; Gaz. vol. 185; p. 591.
Reynolds, Mark W. (See Murphy and Reynolds.)
Reynolds, Morley P., Cleveland, Ohio. Seed-testing device. No. 1,044,247; Nov. 12; Gaz vol. 184; p. 451.
Reynolds Motor Company, The. (See Coffin and Behn, assignors.)
Reynolds, Oakie F., Petersburg, Okla. Pole. No. 1,024,361; Apr. 23; Sp. p. 5546; Gaz. vol. 177; p. 972.
Reynolds Pattern and Machine Company. (See Hunt, Wilson P., assignor.)
Reynolds, Paul, Franklinville, N. Y. Sap-bucket cover. No. 1,046,857; Dec. 10; Gaz. vol. 185; p. 408.

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Reynolds, Paul H. (See Reynolds, William A. and B. O., assignors.)
Reynolds, R. H. (See Hawthorne, Wyatt, and Warner, assignors.)
Reynolds, Robert A., Detroit, Mich. Grinding-mill. No. 1,015,586; Jan. 23; Sp. p. 5513; Gaz. vol. 174; p. 943.
Reynolds, Robert A., Detroit, Mich. Grinding-mill. No. 1,046,019; Dec. 3; Gaz. vol. 185; p. 74.
Reynolds, Robert A., Detroit, assignor to The American Machinery Company, Port Huron, Mich. Flour-bolter. No. 1,022,381; Apr. 2; Sp. p. 1305; Gaz. vol. 177; p. 211.
Reynolds, Robert A., and A. C. Raymond, Detroit, Mich. Carriage for transporting and laying concrete beams. No. 1,029,224; June 11; Sp. p. 2501; Gaz. vol. 179; p. 425.
Reynolds, Samuel W., West Toledo, Ohio. Safety snap-hook. No. 1,040,415; Oct. 8; Gaz. vol. 183; p. 280.
Reynolds, Walter M. (See Merkel and Reynolds.)
Reynolds, Will S., assignor to The Autocall Company, Shelby, Ohio. Electric signal apparatus. No. 1,023,875; Apr. 23; Sp. p. 4496; Gaz. vol. 177; p. 806.
Reynolds, William A. and B. O., assignors of one-half to P. H. Reynolds, Asheville, N. C. Making concrete pipe and tile. No. 1,019,918; Mar. 12; Sp. p. 1959; Gaz. vol. 176; p. 339.
Rezniček, Anton, Jersey City, N. J. Apparel-belt. No. 1,021,728; Mar. 26; Sp. p. 5755; Gaz. vol. 176; p. 1033.
Rhea, Luther C., Columbus, Ohio. Flexible electric heater. No. 1,027,763; May 28; Sp. p. 5831; Gaz. vol. 178; p. 1015.
Rheinische Dampfkessel und Maschinen-Fabrik Büttner G. m. b. H. (See Kaszner, Georg, assignor.)
Rheinische Metallwaaren- und Maschinenfabrik. (See Chronis, Aris D., assignor.)
Rheinische Metallwaaren- und Maschinenfabrik. (See Ehrhardt, Heinrich, assignor.)
Rheinische Metallwaaren- und Maschinenfabrik. (See Müller, Emil, assignor.)
Rheinische Metallwaaren- und Maschinenfabrik. (See Schmidt, Franz, assignor.)
Rheinische Metallwaaren- und Maschinenfabrik. (See Steinhart, Eugen, assignor.)
Rheinische Metallwaaren- und Maschinenfabrik. (See Völler, Karl, assignor.)
Rheinische Metallwaaren- und Maschinenfabrik. (See Wiedstruck, Franz, assignor.)
Rhett, James M., Beaufort, S. C. Automatic reversing and timing switch for gas-engines. No. 1,014,723; Jan. 16; Sp. p. 3636; Gaz. vol. 174; p. 622.
Rhett, James M., Beaufort, S. C. Safety starting device for internal-combustion engines. No. 1,039,321; Sept. 24; Gaz. vol. 182; p. 813.
Rheubottom, Frank C., Union City, Mich. Binding device. No. 1,048,098; Dec. 24; Gaz. vol. 185; p. 896.
Rhoades, Alonzo E. (See Stimpson and Rhoades.)
Rhoades, Alonzo E., assignor to Draper Company, Hopedale, Mass. Supporting means for loom-beams. No. 1,013,443; Jan. 2; Sp. p. 775; Gaz. vol. 174; p. 123.
Rhoades, Alonzo E., assignor to Draper Company, Hopedale, Mass. Traverse-motion for yarn spinning or twisting apparatus. No. 1,013,846; Jan. 2; Sp. p. 1660; Gaz. vol. 174; p. 263.
Rhoades, Alonzo E., assignor to Draper Company, Hopedale, Mass. Filling-replenishing feeler-loom. No. 1,019,279; Mar. 5; Sp. p. 613; Gaz. vol. 176; p. 95.
Rhoades, Alonzo E., assignor to Draper Company, Hopedale, Mass. Controlling mechanism for automatic feeler-looms. No. 1,020,622; Mar. 19; Sp. p. 3440; Gaz. vol. 176; p. 608.
Rhoades, Alonzo E., assignor to Draper Company, Hopedale, Mass. Thread-collecting means for automatic looms. No. 1,020,662; Mar. 19; Sp. p. 3524; Gaz. vol. 176; p. 621.
Rhoades, Alonzo E., assignor to Draper Company, Hopedale, Mass. Traverse-motion for yarn-spinning apparatus. No. 1,020,713; Mar. 19; Sp. p. 3640; Gaz. vol. 176; p. 640.
Rhoades, Alonzo E., assignor to Draper Company, Hopedale, Mass. Filling-exhaustion-indicating mechanism for looms. No. 1,024,023; Apr. 23; Sp. p. 4819; Gaz. vol. 177; p. 856.
Rhoades, Alonzo E., assignor to Draper Company, Hopedale, Mass. Bobbin-holder. No. 1,026,603; May 14; Sp. p. 3302; Gaz. vol. 178; p. 546.
Rhoades, Alonzo E., assignor to Draper Company, Hopedale, Mass. Spooler. No. 1,026,604; May 14; Sp. p. 3303; Gaz. vol. 178; p. 546.
Rhoades, Alonzo E., assignor to Draper Company, Hopedale, Mass. Yarn-spinning apparatus. No. 1,037,318; Sept. 3; Gaz. vol. 182; p. 46.
Rhoades, Alonzo E., assignor to Draper Company, Hopedale, Mass. Thread-parting mechanism for looms. No. 1,045,437; Nov. 26; Gaz. vol. 184; p. 922.
Rhoades, Alonzo E., assignor to Draper Company, Hopedale, Mass. Thread-parting mechanism for looms. No. 1,045,438; Nov. 26; Gaz. vol. 184; p. 922.
Rhoades, Alonzo E., assignor to Draper Company, Hopedale, Mass. Thread-parting mechanism for looms. No. 1,047,448; Dec. 17; Gaz. vol. 185; p. 643.
Rhoades, Lewis H., Roseburg, Oreg. Match-box. No. 1,049,148; Dec. 31; Gaz. vol. 185; p. 1294.
Rhoades, Lewis T., Mont Clare, Pa. Current-controlling mechanism for internal-combustion engines. No. 1,028,277; June 4; Sp. p. 467; Gaz. vol. 179; p. 68.
Rhoades, Lewis T., Mont Clare, Pa. Sparking mechanism for internal-combustion engines. No. 1,034,835; Aug. 6; Gaz. vol. 181; p. 146.
Rhoads, Charles J. (See Forshay and Rhoads.)
Rhoads, Charles S., Jr. (See Rugh and Rhoads.)
Rhoads, Errett S., and V. Ross, Kansas City, Mo. Store-front construction. No. 1,040,416; Oct. 8; Gaz. vol. 183; p. 280.
Rhoads, Joseph E., Wilmington, Del. Power-transmission belt. No. 1,030,682; June 25; Sp. p. 5911; Gaz. vol. 179; p. 1010.
Rhodes, Arthur W. (See Estey and Rhodes.)
Rhodes, Bert O., Kalamazoo, Mich. Universal joint. No. 1,040,417; Oct. 8; Gaz. vol. 183; p. 280.
Rhodes, Charles M., Steubenville, Ohio. Wave-energy motor. No. 1,044,912; Nov. 19; Gaz. vol. 184; p. 711.
Rhodes, Charles M., Steubenville, Ohio. Wave-energy motor. No. 1,044,913; Nov. 19; Gaz. vol. 184; p. 712.
Rhodes, Edgar, Leeds, England, assignor to Continuous Rail Company, Wilmington, Del. Compound-rail construction. No. 1,038,439; Sept. 10; Gaz. vol. 182; p. 459;
Rhodes, Edgar, Leeds, England, assignor to Continuous Rail Company, New York, N. Y. Machine for working on compound rails. No. 1,046,020; Dec. 3; Gaz. vol. 185; p. 75.
Rhodes, Ellen M., Derry, Pa. Hook and eye. No. 1,040,758; Oct. 8; Gaz. vol. 183; p. 401.
Rhodes, Ernest R., Fulton, N. Y. Bow-coupling for carriage-tops. No. 1,039,195; Sept. 24; Gaz. vol. 182; p. 768.
Rhodes, Ewing B., Pittsburgh, Pa. Door-opening device for vehicles. No. 1,022,262; Apr. 2; Sp. p. 1073; Gaz. vol. 177; p. 171.
Rhodes, Ewing B., Pittsburgh, Pa. Cleaning device for wind-shields. No. 1,028,843; June 4; Sp. p. 1664; Gaz. vol. 179; p. 259.
Rhodes, George, Shelton, Nebr. Machine for filing band-saws. No. 1,046,645; Dec. 10; Gaz. vol. 185; p. 334.
Rhodes, Jay B., Kalamazoo, Mich. Route-indicator. No. 1,021,889; Apr. 2; Sp. p. 292; Gaz. vol. 177; p. 48.
Rhodes, Jay B., Kalamazoo, Mich. Odometer. No. 1,047,566; Dec. 17; Gaz. vol. 185; p. 687.
Rhodes, John K., Brooklyn, assignor to K. M. Turner, Jamaica, N. Y. Telephonic transmitting appliance. No. 1,039,443; Sept. 24; Gaz. vol. 182; p. 855.
Rhodes, Samuel G., New York, N. Y. Protective electric cut-out. No. 1,019,362; Mar. 5; Sp. p. 822; Gaz. vol. 176; p. 123.
Rhodes, Wilbur H., Gloversville, N. Y. Garbage-receptacle. No. 1,040,014; Oct. 1; Gaz. vol. 183; p. 114.
Rhodin, John G. A., London, England. Manufacture of slag cement. No. 1,017,912; Feb. 20; Sp. p. 3747; Gaz. vol. 175; p. 651.
Rhodin, John G. A., assignor to G. Rosenbusch, London, England. White hydraulic cement and making the same. No. 1,017,913; Feb. 20; Sp. p. 3749; Gaz. vol. 175; p. 652.
Rhodus, Thomas, Chicago, Ill. Vehicle-wheel. No. 1,025,483; May 7; Sp. p. 838; Gaz. vol. 178; p. 131.
Rhone, George M., Brownwood, Tex. Syringe. No. 1,038,960; Sept. 17; Gaz. vol. 182; p. 673.
Rhone, Samuel M., Montgomery, Pa. Purse. No. 1,046,021; Dec. 3; Gaz. vol. 185; p. 75.
Riblet, Byron C., Spokane, Wash. Landing and launching platform for aeroplanes. No. 1,044,914; Nov. 19; Gaz. vol. 184; p. 712.
Riblet, George E., Erie, Pa. Slide-trombone. No. 1,021,890; Apr. 2; Sp. p. 296; Gaz. vol. 177; p. 49.
Riblet, George E., Erie, Pa. Heater. No. 1,037,987; Sept. 10; Gaz. vol. 182; p. 306.
Ricaldoni, Ottavio. (See Crocco and Ricaldoni.)
Ricardo, Harry R., London, England. Internal-combustion engine. No. 1,027,278; May 21; Sp. p. 4848; Gaz. vol. 178; p. 816.
Rice, Addison V., Chicago, Ill. Luminous sign-plate. No. 1,048,343; Dec. 24; Gaz. vol. 185; p. 978.
Rice, Andrew J., Philadelphia, Pa. Flour-sifter. No. 1,034,302; July 30; Gaz. vol. 180; p. 1331.
Rice, Benjamin F. (See McKesson and Rice.)
Rice, Charles D., Hartford, Conn. Belt-gearing. No. 1,022,756; Apr. 9; Sp. p. 2165; Gaz. vol. 177; p. 371.
Rice, Charles D., Hartford, Conn. Roller-skate. No. 1,034,649; Aug. 6; Gaz. vol. 181; p. 81.
Rice, Charles D., Hartford, Conn. Pneumatic wheel. No. 1,035,424; Aug. 13; Gaz. vol. 181; p. 377.
Rice, Charles O., *et al.* (See Wiggins, George G., assignor.)
Rice, Charles W., *et al.* (See Dickert, Curtis L., assignor.)
Rice, Charles W. (See Tate and Rice.)
Rice, Clifford F., Springfield, Mass. Folding car-step. No. 1,046,332; Dec. 3; Gaz. vol. 185; p. 186.
Rice, Cyrus W., Philadelphia, Pa. Apparatus for purifying water for use in steam-boilers. No. 1,035,813; Aug. 13; Gaz. vol. 181; p. 508.
Rice, Earley W., Waxahachie, Tex. Furnace. No. 1,027,436; May 28; Sp. p. 5180; Gaz. vol. 178; p. 908.

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Rice, Ephraim D. (See Holden, Clem C., assignor.)
Rice, Frank. (See Calkins and Rice.)
Rice, Frank H., Oak Park, Ill. Main valve for dry-pipe automatic fire-extinguishing systems. No. 1,026,882; May 21; Sp. p. 3950; Gaz. vol. 178; p. 680.
Rice, Frederick M., Russell, N. D. Unloading-rack. No. 1,015,074; Jan. 16; Sp. p. 4413; Gaz. vol. 174; p. 742.
Rice, George H., Honolulu, Hawaii. Track attachment for switch-signals. No. 1,047,704; Dec. 17; Gaz. vol. 185; p. 735.
Rice, Harry L., Chilhowee, Mo. Resilient wheel. No. 1,047,705; Dec. 17; Gaz. vol. 185; p. 735.
Rice & Hochster. (See Machate, John, assignor.)
Rice, Horace E., assignor to W. C. L. Eglin, Philadelphia, Pa. Reverse-phase relay. No. 1,025,590; May 7; Sp. p. 1087; Gaz. vol. 178; p. 168.
Rice, Irvin, Jasper, Mo. Wheel jack and disher. No. 1,017,801; Feb. 20; Sp. p. 3474; Gaz. vol. 175; p. 611.
Rice, J. B. (See Hiskey, George M., assignor.)
Rice, Jesse D. (See Judson, Walter E., assignor.)
Rice, John B., Columbus, Ohio. Music-leaf turner. No. 1,032,429; July 16; Gaz. vol. 180; p. 631.
Rice, Jonathan W., and J. Fulton, King City, Mo. Anti-twisting draft means for harrows and the like. (Reissue.) No. 13,357; Jan. 9; Sp. p. 3427; Gaz. vol. 174; p. 567.
Rice, Leander, Kahlotus, Wash. Nut-lock. No. 1,027,001; May 21; Sp. p. 4237; Gaz. vol. 178; p. 722.
Rice, Louisa B., Collinwood, Ohio. Individual water-heater. No. 1,031,376; July 2; Gaz. vol. 180; p. 184.
Rice, Marie R., Chicago, Ill., assignor to G. Keitel, New York, N. Y. Collar. No. 1,029,891; June 18; Sp. p. 3983; Gaz. vol. 179; p. 693.
Rice, Martin L., *et al.* (See Bresee, Wright D., assignor.)
Rice, Martin L. (See Coqueugniot, Gustave H., assignor.)
Rice, Oliver M., New Orleans, La. Weighing-scale. No. 1,033,734; July 23; Gaz. vol. 180; p. 1105.
Rice, Richard H., Lynn, Mass., assignor to General Electric Company. Centrifugal compressor and pump. No. 1,013,312; Jan. 2; Sp. p. 500; Gaz. vol. 174; p. 79.
Rice, Richard H., Lynn, Mass., assignor to General Electric Company. Governing means for elastic-fluid turbines. No. 1,021,212; Mar. 26; Sp. p. 4675; Gaz. vol. 176; p. 857.
Rice, Richard H., Lynn, Mass., assignor to General Electric Company. Throttle-valve for turbines. No. 1,021,213; Mar. 26; Sp. p. 4680; Gaz. vol. 176; p. 858.
Rice, Richard H., Lynn, Mass., assignor to General Electric Company. Governor for air-compressors. No. 1,021,214; Mar. 26; Sp. p. 4682; Gaz. vol. 176; p. 858.
Rice, Richard H., Lynn, Mass., assignor to General Electric Company. Impeller for centrifugal apparatus. No. 1,021,265; Mar. 26; Sp. p. 4799; Gaz. vol. 176; p. 876.
Rice, Richard H., Lynn, Mass., assignor to General Electric Company. Turbo-generator. No. 1,021,266; Mar. 26; Sp. p. 4801; Gaz. vol. 176; p. 876.
Rice, Richard H., Lynn, Mass., assignor to General Electric Company. Combined step and guide bearing for turbines. No. 1,041,512; Oct. 15; Gaz. vol. 183; p. 686.
Rice, Richard H., Swampscott, Mass., assignor to General Electric Company. Governing mechanism for turbines. No. 1,041,513; Oct. 15; Gaz. vol. 183; p. 686.
Rice, Richard H., Lynn, Mass., and F. A. Larkin, New York, N. Y., assignors to General Electric Company. Steam-accumulator. No. 1,017,590; Feb. 13; Sp. p. 2970; Gaz. vol. 175; p. 502.
Rice, Richard H., and S. A. Moss, Lynn, Mass., assignors to General Electric Company. Centrifugal compressor and pump. No. 1,041,511; Oct. 15; Gaz. vol. 183; p. 685.
Rice, Robert H. (See Smith, John C., assignor.)
Rice, Thomas G., Wheeler, assignor of one-fourth to W. G. Dean and R. J. Scott, Prattsburg, N. Y. Wheel-retaining means. No. 1,035,907; Aug. 20; Gaz. vol. 181; p. 578.
Rice, Walter F., Quincy, Mass. Bush-hammer. No. 1,031,870; July 9; Gaz. vol. 180; p. 398.
Rice, Walter F., Quincy, Mass., assignor to General Electric Company. Binder for turbine-buckets. No. 1,017,467; Feb. 13; Sp. p. 2746; Gaz. vol. 175; p. 462.
Rice, Walter F., Quincy, Mass., assignor to Fore River Shipbuilding Company. Pitchometer. No. 1,021,797; Apr. 2; Sp. p. 86; Gaz. vol. 177; p. 18.
Rice, Walter F., Quincy, Mass., assignor to Fore River Ship Building Company. Planing apparatus. No. 1,038,790; Sept. 17; Gaz. vol. 182; p. 615.
Rice, Walter T., Chicago, Ill. Combined muffler and exhaust-pipe for internal-combustion engines. No. 1,036,713; Aug. 27; Gaz. vol. 181; p. 887.
Rice, Wendell, Caldwell, Idaho. Calculator. No. 1,026,123; May 14; Sp. p. 2286; Gaz. vol. 178; p. 386.
Rice, William H., Rochester, N. Y. Agricultural implement. No. 1,034,734; Aug. 6; Gaz. vol. 181; p. 111.
Rice, William P., Shelbiana, Ky. Miner's lamp. No. 1,024,362; Apr. 23; Sp. p. 5547; Gaz. vol. 177; p. 972.
Rich, Berthold L., Washington, D. C. Nethergarment. No. 1,043,031; Oct. 29; Gaz. vol. 183; p. 1269.
Rich, Charles C., assignor to The Hydro-Kinetic Transmission Co., Mount Vernon, N. Y. Clutch. No. 1,017,802; Feb. 20; Sp. p. 3475; Gaz. vol. 175; p. 611.
Rich, George R., Oak Park, assignor to Rich Tool Company, Chicago, Ill. Flue-expander. No. 1,048,584; Dec. 31; Gaz. vol. 185; p. 1098.
Rich, Harrison W., and C. E. Gates, assignors to Olympic Inserted Tooth Cylinder Company, Spokane, Wash. Threshing-cylinder. No. 1,020,714; Mar. 19; Sp. p. 3644; Gaz. vol. 176; p. 641.
Rich, Lester M., Cincinnati, Ohio. Pump-cap. No. 1,029,143; June 11; Sp. p. 2333; Gaz. vol. 179; p. 397.
Rich, Lester M., Indianapolis, Ind. Chicken-coop. No. 1,029,144; June 11; Sp. p. 2334; Gaz. vol. 179; p. 398.
Rich, Lyman S., Boston, Mass. Lathe-center. No. 1,020,311; Mar. 12; Sp. p. 2767; Gaz. vol. 176; p. 469.
Rich Tool Company. (See Rich, George R., assignor.)
Richard, Camille. (See Rose and Richard.)
Richard, Charles D., assignor to F. Ducasse, New York, N. Y. Money-changing mechanism. No. 1,046,022; Dec. 3; Gaz. vol. 185; p. 76.
Richard, Henry O., Minneapolis, Minn. Package-tie. No. 1,033,470; July 23; Gaz. vol. 180; p. 1020.
Richard, Joseph O., Syracuse, N. Y. Window-fixture. No. 1,046,646; Dec. 10; Gaz. vol. 185; p. 334.
Richard, Jules, Paris, France. Stereoscopic camera. No. 1,013,815; Jan. 2; Sp. p. 1579; Gaz. vol. 174; p. 252.
Richard, Jules, Paris, France. Photographic shutter. No. 1,032,297; July 9; Gaz. vol. 180; p. 541.
Richard, Levi B., Pittsburgh, Pa. Fruit coring and cutting device. No. 1,042,823; Oct. 29; Gaz. vol. 183; p. 1197.
Richard, Raphael D., Westchester Lake, Nova Scotia, Canada. Windmill. No. 1,038,657; Sept. 17; Gaz. vol. 182; p. 567.
Richard, Vernon I. (See Baltzley, Edwin, assignor.)
Richard, William C., Buffalo, N. Y. Binder for sheet-music, &c. No. 1,047,567; Dec. 17; Gaz. vol. 185; p. 687.
Richards, Arthur J., and P. J. Hinds, Holyoke, Mass. Cotton-spinning. No. 1,031,871; July 9; Gaz. vol. 180; p. 399.
Richards, Benjamin, Canton, Mass. Insulating-cleat. No. 1,048,736; Dec. 31; Gaz. vol. 185; p. 1152.
Richards, Charles B., assignor, by mesne assignments, to The Cleveland Rock Drill Company, Cleveland, Ohio. Fluid-operated tool. No. 1,037,535; Sept. 3; Gaz. vol. 182; p. 121.
Richards, Corydon, Harvard, Ill. Awning. No. 1,039,593; Sept. 24; Gaz. vol. 182; p. 908.
Richards, Elmo V., Des Moines, Iowa. Car-unloader. No. 1,027,669; May 28; Sp. p. 5643; Gaz. vol. 178; p. 984.
Richards, Ernst R., assignor to Sears, Roebuck and Co., Chicago, Ill. Core-chuck. No. 1,037,988; Sept. 10; Gaz. vol. 182; p. 307.
Richards, Ernst R., assignor to Sears, Roebuck and Co., Chicago, Ill. Gripping device. No. 1,048,585; Dec. 31; Gaz. vol. 185; p. 1098.
Richards, George, Sydenham, London, England. Variable-speed mechanism. No, 1,042,720; Oct. 29; Gaz. vol. 183; p. 1162.
Richards, George A. (See Givens, Jeremiah A., assignor.)
Richards, George A., and A. J. Price, Watertown, Wis. Socket-cover for light-fixtures. No. 1,037,989; Sept. 10; Gaz. vol. 182; p. 307.
Richards, George M., assignor to M. A. Richards, Erie, Pa. Pressure-governor. No. 1,031,291; July 2; Gaz. vol. 180; p. 156.
Richards, Hubert P., assignor to The Stanley Rule and Level Company, New Britain, Conn. Zigzag-rule joint. No. 1,026,367; May 14; Sp. p. 2831; Gaz. vol. 178; p. 468.
Richards, James N. (See Westman and Richards.)
Richards, John J., Jr., Brookline, assignor to W. S. Daniels and A. W. Campbell, Boston, Mass. Automobile-horn. No. 1,043,032; Oct. 29; Gaz. vol. 183; p. 1269.
Richards, John W., Jr., Flint, Mich. Fly-fan. No. 1,039,196; Sept. 25; Gaz. vol. 182; p. 768.
Richards, Joseph W., South Bethlehem, Pa. Treatment of molten steel. No. 1,037,536; Sept. 3; Gaz. vol. 182; p. 122.
Richards, Keene, Chicago, Ill. Block-signaling system for electric railways. No. 1,018,443; Feb. 27; Sp. p. 4891; Gaz. vol. 175; p. 865.
Richards, Lewis I., Crescent, Okla. Cotton-chopper. No. 1,028,278; June 4; Sp. p. 472; Gaz. vol. 179; p. 69.
Richards, Lutellas, Atwater, Ohio. Tobacco-pipe. No. 1,017,803; Feb. 20; Sp. p. 3480; Gaz. vol. 175; p. 612.
Richards, Marion A. (See Richards, George M., assignor.)
Richards, Matthew H., New Castle, Pa. Apparatus for grinding and polishing rolls. No. 1,040,759; Oct. 8; Gaz. vol. 183; p. 401.
Richards, Oliver L. (See Guy and Richards.)
Richards, Peter R., Hazleton, Pa. Safety appliance for gas-fixtures. No. 1,017,468; Feb. 13; Sp. p. 2748; Gaz. vol. 175; p. 462.
Richards, Walter F., Quincy, Ill. Attachment for dental lathes. No. 1,032,241; July 9; Gaz. vol. 180; p. 522.
Richards-Wilcox Manufacturing Company. (See Hoffman, Peter L., assignor.)
Richards, Willard F., Depew, assignor to Gould Coupler Company, New York, N. Y. Car-coupling. No. 1,041,348; Oct. 15; Gaz. vol. 183; p. 633.

Alphabetical list of patentees—Continued.

Richards, William, Akron, Ohio. Mail-loader. No. 1,032,775; July 16; Gaz. vol. 180; p. 749.
Richards, William M., New York, assignor to The Standard Optical Company, Geneva, N. Y. Instrument for centering, marking, and testing lenses. No. 1,026,124; May 14; Sp. p. 2288; Gaz. vol. 178; p. 386.
Richards, William W., *et al.* (See Penfield, James C. and J. N., assignors.)
Richardson, Amanda E., Boston, Mass. Garment-attaching means. No. 1,022,155; Apr. 2; Sp. p. 857; Gaz. vol. 177; p. 136.
Richardson, Bertha K., Attleboro, Mass. Corset-shield. No. 1,023,174; Apr. 16; Sp. p. 3082; Gaz. vol. 177; p. 551.
Richardson, Daniel J., assignor to The Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 1,013,953; Jan. 9; Sp. p. 1934; Gaz. vol. 174; p. 328.
Richardson, Edwin C., Grand Rapids, Mich. Lifting implement. No. 1,029,823; June 18; Sp. p. 3823; Gaz. vol. 179; p. 670.
Richardson, Ernest, Beaver Falls, Pa. Oven, refrigerator, and similar receptacle. No. 1,013,313; Jan. 2; Sp. p. 504; Gaz. vol. 174; p. 79.
Richardson, Ernest, Beaver Falls, Pa. Knockdown lining for ovens, refrigerators, and similar articles. No. 1,041,164; Oct. 15; Gaz. vol. 183; p. 570.
Richardson, Frank C., and J. T. Wood, Iola, Kans. Oil-burner. No. 1,023,529; Apr. 16; Sp. p. 3770; Gaz. vol. 177; p. 666.
Richardson, Frank J. (See Bonsteel, John H., assignor.)
Richardson, G. R. (See Lawler, Patrick J., assignor.)
Richardson, George C., Leavenworth, Kans. Orchard oil-burner. No. 1,017,317; Feb. 13; Sp. p. 2413; Gaz. vol. 175; p. 410.
Richardson, George W., Chicago, Ill. Slide-rule. No. 1,021,484; Mar. 26; Sp. p. 5287; Gaz. vol. 176; p. 953.
Richardson, George W., assignor of one-half to P. C. Williams, Bellingham, Wash. Rotary engine. No. 1,024,363; Apr. 23; Sp. p. 5548; Gaz. vol. 177; p. 972.
Richardson, Harold A., London, England. Cement steel plate. No. 1,017,914; Feb. 20; Sp. p. 3751; Gaz. vol. 175; p. 652.
Richardson, Harold A., London, England. Hardened-steel plate and like article. No. 1,035,908; Aug. 20; Gaz. vol. 181; p. 578.
Richardson, Harry E. (See Childs, Wallace S., assignor.)
Richardson, Henry B., Attleboro, Mass. Tumbling and polishing machine. No. 1,038,791; Sept. 17; Gaz. vol. 182; p. 615.
Richardson, James, New Castle, Pa. Hinge. No. 1,015,209; Jan. 16; Sp. p. 4664; Gaz. vol. 174; p. 787.
Richardson, Jerome L., Red Oak, Iowa. Acetylene-generator. No. 1,025,160; May 7; Sp. p. 104; Gaz. vol. 178; p. 19.
Richardson, John F., Montreal, Quebec, Canada. Electric-line-tapping connector. No. 1,027,279; May 21; Sp. p. 4851; Gaz. vol. 178; p. 817.
Richardson, Josiah. (See Crews, Stephen R., assignor.)
Richardson Manufacturing Company. (See Curtis, John D., assignor.)
Richardson, Maurice F., Southington, Conn. Spring-trap. No. 1,048,586; Dec. 31; Gaz. vol. 185; p. 1098.
Richardson, Milton C., and E. B. Cooke, assignors to The Highway Advertising Company, New Philadelphia, Ohio. Sign-post. No. 1,028,279; June 4; Sp. p. 473; Gaz. vol. 179; p. 69.
Richardson, Newton. (See McKinney and Richardson.)
Richardson, Ralph R., assignor to Chicago Carton Company, Chicago, Ill. Paper drinking-cup. No. 1,042,824; Oct. 29; Gaz. vol. 183; p. 1198.
Richardson Scale Company. (See Clifford and Murray, assignors.)
Richardson Scale Company. (See Holloway, Chester L., assignor.)
Richardson, Solon O., Jr., Toledo, Ohio. Pot-furnace. No. 1,021,798; Apr. 2; Sp. p. 92; Gaz. vol. 177; p. 18.
Richardson, William. (See Morrison, William C., assignor.)
Richardson, William A., assignor of one-half to J. G. Barrett and one-half to E. M. Kennealy, Chicago, Ill. Electric lamp. No. 1,033,347; July 23; Gaz. vol. 180; p. 980.
Richardson, William A., assignor of one-half to J. G. Barrett and one-half to E. M. Kennealy, Chicago, Ill. Electric-lamp socket. No. 1,041,873; Oct. 22; Gaz. vol. 183; p. 846.
Richardson, William K., Leavenworth, Kans. Centrifugal water-clarifier. No. 1,014,849; Jan. 16; Sp. p. 3928; Gaz. vol. 174; p. 666.
Richardson, William K., Leavenworth, Kans. Liquid packing. No. 1,014,850; Jan. 16; Sp. p. 3933; Gaz. vol. 174; p. 666.
Richardson, William K., Leavenworth, Kans. Centrifugal machine. No. 1,044,573; Nov. 19; Gaz. vol. 184; p. 592.
Richart, George B., Indianapolis, Ind. Valve. No. 1,039,804; Oct. 1; Gaz. vol. 183; p. 46.
Richendrfer, Henry J., and R. Boone, Lime Ridge, Pa. Copy-holder. No. 1,045,747; Nov. 26; Gaz. vol. 184; p. 1033.
Richer, Joseph, assignor of one-third to N. A. Hilding and one-third to N. F. Lundin, Waterbury, Conn. Making heel-plates. No. 1,019,919; Mar. 12; Sp. p. 1960; Gaz. vol. 176; p. 340.
Richert, Paul, Pittsburgh, Pa. Locking-shutter for taximeters. No. 1,033,056; July 16; Gaz. vol. 180; p. 843.
Richeson, Richard S., St. Louis, Mo. Gyromotor. No. 1,049,264; Dec. 31; Gaz. vol. 185; p. 1334.
Richey, Charles V., Washington, D. C., assignor to Richey Telephone Lock and Call Register Company. Telephone-call register. No. 1,037,053; Aug. 27; Gaz. vol. 181; p. 1001.
Richey, Francis O., assignor to The Dean Electric Company, Elyria, Ohio. Telephone-receiver shell. No. 1,033,938; July 30; Gaz. vol. 180; p. 1203.
Richey Telephone Lock and Call Register Company. (See Richey, Charles V., assignor.)
Richman, William H., Philadelphia, Pa. Internal-combustion engine. No. 1,042,970; Oct. 29; Gaz. vol. 183; p. 1247.
Richmond Casket Company. (See Holcomb, Charles C., assignor.)
Richmond Cedar Works. (See Parrish, James S., assignor.)
Richmond, Edwin F., Lake Charles, La. Threshing-machine. No. 1,013,816; Jan. 2; Sp. p. 1581; Gaz. vol. 174; p. 252.
Richmond, Hubert, and C. E. Barber, Memphis, Tenn.; said Richmond assignor to said Barber. Amusement cycle-globe. No. 1,027,069; May 21; Sp. p. 4415; Gaz. vol. 178; p. 746.
Richmond, James, Cleveland, Ohio. Chime-piano. No. 1,016,094; Jan. 30; Sp. p. 6602; Gaz. vol. 174; p. 1147.
Richmond, Reginald H., assignor of one-half to Brampton Brothers Limited, Birmingham, England. Driving-chain. No. 1,027,002; May 21; Sp. p. 4238; Gaz. vol. 178; p. 722.
Richmond Stay-Bolt Drilling Machine Manufacturing Company. (See Fishburne, Edward W., assignor.)
Richmond Underwear Company, The. (See Harwood, Asa J., assignor.)
Richmond, Walter, Memphis, Tenn. Centrifugal emulsifier or mixer. No. 1,031,666; July 2; Gaz. vol. 180; p. 283.
Richner, Edward H. (See Richner, Herman J. and E. H.)
Richner, Herman J. and E. H., Cleveland, Ohio. Automobile-lock. No. 1,048,211; Dec. 24; Gaz. vol. 185; p. 934.
Richnow, Leo. (See Johanning and Richnow.)
Richter, August F., Watertown, N. Y. Combination-digester. No. 1,031,088; July 2; Gaz. vol. 180; p. 85.
Richter, Felix, Frankfort-on-the-Main, and L. von Orth, Charlottenburg, Germany. Manufacturing strongly-absorbent coal. No. 1,027,153; May 21; Sp. p. 4601; Gaz. vol. 178; p. 772.
Richter, Franz, Buchau, Austria-Hungary. Fudging-tool for boots and the like. No. 1,043,461; Nov. 5; Gaz. vol. 184; p. 149.
Richter, Friedrich A., Rudolstadt, Germany. Framework of roofs for toy buildings. No. 1,015,342; Jan. 23; Sp. p. 4982; Gaz. vol. 174; p. 860.
Richter, Georg, Stettin, assignor to Ofenbau-Gesellschaft m. b. H., Munich, Germany. Gas-generating furnace. No. 1,027,154; May 21; Sp. p. 4603; Gaz. vol. 178; p. 773.
Richter, Julius, Ford City, Pa. Center-punch. No. 1,017,469; Feb. 13; Sp. p. 2749; Gaz. vol. 175; p. 463.
Rickardson, Werner. (See Reed and Rickardson.)
Rickel, James, St. Joseph, Mo. Corn-husking machine. No. 1,019,838; Mar. 12; Sp. p. 1771; Gaz. vol. 176; p. 310.
Ricker, Francis W., Washington, D. C. Door-catch. No. 1,031,872; July 9; Gaz. vol. 180; p. 399.
Ricker, Ira V., Chicago, Ill. Churn. No. 1,017,690; Feb. 20; Sp. p. 3177; Gaz. vol. 175; p. 572.
Ricker, William H., Cambridge, Mass. Building construction and block therefor. No. 1,016,957; Feb. 13; Sp. p. 1619; Gaz. vol. 175; p. 284.
Rickersberg Brass Company, The. (See Gorlick, Andrew J., assignor.)
Rickersberg Brass Company, The. (See Nusser, Peter, assignor.)
Rickerson, Grady G. (See Warner and Rickerson.)
Rickert, August A. (See Royer and Rickert.)
Rickert, Roy M., assignor of one-half to F. D. Sandy, Denver, Colo. Amusement-ticket machine. No. 1,026,605; May 14; Sp. p. 3307; Gaz. vol. 178; p. 546.
Ricketson, Frank B., Pawtucket, R. I., and J. Hampson, New Bedford, Mass., assignors to Burgess Mills, Pawtucket, R. I. Leno or cross-weaving loom. No. 1,031,733; July 9; Gaz. vol. 180; p. 349.
Ricketts, Forrest E. (See Keilholtz and Ricketts.)
Ricketts, Forrest E., Baltimore, Md. Regulator. No. 1,021,333; Mar. 26; Sp. p. 4931; Gaz. vol. 176; p. 902.
Ricketts, James R., assignor to Air Device Company, Los Angeles, Cal. Railway pneumatic apparatus. No. 1,019,363; Mar. 5; Sp. p. 824; Gaz. vol. 176; p. 123.
Ricketts, James R., Longbeach, assignor to Los Angeles Trolley Catcher Company, Los Angeles, Cal. Trolley-catcher. No. 1,030,791; June 25; Sp. p. 6207; Gaz. vol. 179; p. 1049.

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Ricketts, James R., assignor to The Los Angeles Trolley Catcher Company, Los Angeles, Cal. Trolley-retriever. No. 1,041,349; Oct. 15; Gaz. vol. 183; p. 633.
Ricketts, John A., Rochester, N. Y. Fish-line reel. No. 1,038,203; Sept. 10; Gaz. vol. 182; p. 375.
Ricketts, John A., Ithaca, N. Y. Reel for fish-rods. No. 1,046,647; Dec. 10; Gaz. vol. 185; p. 335.
Rickie, Alexander J., Cossipur, Calcutta, India. Gas producer or generator. No. 1,029,084; June 11; Sp. p. 2212; Gaz. vol. 179; p. 378.
Rickman, Robert L., Vancouver, British Columbia, Canada. Method and machine for making cement sewer-pipe. No. 1,013,954; Jan. 9; Sp. p. 1936; Gaz. vol. 174; p. 329.
Rickman, Robert L., Vancouver, British Columbia, Canada. Sewer-pipe-bend machine. No. 1,032,625; July 16; Gaz. vol. 180; p. 696.
Rickmers, William, London, England. Explosive. No. 1,032,242; July 9; Gaz. vol. 180; p. 523.
Ricks, Absalom W., Rexburg, Idaho. Shoe-fastener. No. 1,020,511; Mar. 19; Sp. p. 3182; Gaz. vol. 176; p. 571.
Ricks, Alva M., Los Angeles, Cal. Amusement device. No. 1,024,283; Apr. 23; Sp. p. 5415; Gaz. vol. 177; p. 948.
Ricks, Wallace, Santa Ana, Cal. Machine-tool. No. 1,041,874; Oct. 22; Gaz. vol. 183; p. 846.
Ridd, Ambrose, Newport, Ky. Metal-polish. No. 1,026,883; May 21; Sp. p. 3954; Gaz. vol. 178; p. 681.
Riddell, John, Schenectady, N. Y., assignor to General Electric Company. Splicing-sleeve. No. 1,016,095; Jan. 30; Sp. p. 6606; Gaz. vol. 174; p. 1147.
Riddell, John, Schenectady, N. Y., assignor to General Electric Company. Machine for drilling porcelain. No. 1,022,874; Apr. 9; Sp. p. 2392; Gaz. vol. 177; p. 409.
Riddell, John, Schenectady, N. Y., assignor to General Electric Company. Sherardizing-furnace. No. 1,034,930; Aug. 6; Gaz. vol. 181; p. 177.
Riddell, Paris J., assignor to The Brunswick-Balke-Collender Company of New York, New York, N. Y. Bowling-alley ball-returnway. No. 1,013,817; Jan. 2; Sp. p. 1583; Gaz. vol. 174; p. 252.
Riddell, William J., Pittsburgh, Pa. Locking device for levers of motor-vehicles. No. 1,043,726; Nov. 5; Gaz. vol. 184; p. 240.
Riddick, Edgar L., and D. M. MacLeod, Lake Charles, La. Valve. No. 1,038,653; Sept. 17; Gaz. vol. 182; p. 566.
Rider, David W. (See Bender, Jacob S., assignor.)
Rider, Granville S., New York, N. Y. Mantle-burner for kerosene-lamps. No. 1,022,700; Apr. 9; Sp. p. 2021; Gaz. vol. 177; p. 350.
Rider, Harry L., Oil City, Pa. Automatic train-controlling device. No. 1,021,162; Mar. 26; Sp. p. 4576; Gaz. vol. 176; p. 841.
Rider, Herbert E., Brooklyn, assignor to W. Ottmann, New York, N. Y. Mantle-burner for kerosene-lamps. No. 1,021,163; Mar. 26; Sp. p. 4580; Gaz. vol. 176; p. 842.
Rider, William E., Mansfield, Mass. Grate. No. 1,042,036; Oct. 22; Gaz. vol. 183; p. 901.
Ridge, Harry M. (See Merton, Thomas D., assignor.)
Ridgely Trimmer Company, The. (See Breckenridge, John G., assignor.)
Ridgely Trimmer Company, The. (See Chrestensen, Christian P., assignor.)
Ridgway Construction Company. (See Ridgway, Herbert N., assignor.)
Ridgway Dynamo & Engine Company. (See Hall, Thomas, assignor.)
Ridgway, Herbert N., assignor to Ridgway Construction Company, Boston, Mass. Amusement apparatus. No. 1,027,437; May 28; Sp. p. 5181; Gaz. vol. 178; p. 908.
Ridgway, John J., New York, N. Y. Belt-cleaner. No. 1,013,899; Jan. 9; Sp. p. 1806; Gaz. vol. 174; p. 310.
Ridgway, Samuel R., Birmingham, England. Spring-fork for cycles and motor-cycles. No. 1,042,480; Oct. 29; Gaz. vol. 183; p. 1077.
Ridgway, William G., *et al.* (See Alexander, Jesse, assignor.)
Ridgway, William H., Trenton, N. J. Station-indicator. No. 1,036,005; Aug. 20; Gaz. vol. 181; p. 609.
Ridlon, George H., South Whitley, Ind., assignor to Acme Machinery Company, Cleveland, Ohio. Nut-tapping machine. No. 1,043,462; Nov. 5; Gaz. vol. 184; p. 150.
Ridsdale, Herbert W., London, and S. S. Cook, Wallsend, assignors to C. A. Parsons, Newcastle-upon-Tyne, England. Combined ahead and astern turbine. No. 1,022,215; Apr. 2; Sp. p. 980; Gaz. vol. 177; p. 157.
Riebe, August, Weissensee, near Berlin, Germany. Ball-bearing. No. 1,027,902; May 28; Sp. p. 6203; Gaz. vol. 178; p. 1064.
Riebe, Paul C. (See Hoge and Riebe.)
Riedel, George, Glogau, Germany. Machine for producing fur-resembling materials. No. 1,034,836; Aug. 6; Gaz. vol. 181; p. 146.
Riederer, Andrew H., Rozel, Kans. Display-rack. No. 1,026,771; May 21; Sp. p. 3707; Gaz. vol. 178; p. 642.
Riedinger, Eugene R., assignor of one-half to A. Fraser, London, England. Pneumatic tire for vehicle-wheels. No. 1,041,350; Oct. 15; Gaz. vol. 183; p. 633.
Riedl, Michael, Kufstein, Austria-Hungary. Curtain-suspender. No. 1,047,295; Dec. 17; Gaz. vol. 185; p. 591.
Riefer, Anthony J., and D. P. Mays, Pittsburgh, Pa. Wire-holder for insulators. No. 1,048,587; Dec. 31; Gaz. vol. 185; p. 1099.
Rieffel, August, Philadelphia, Pa. Tension device. No. 1,014,256; Jan. 9; Sp. p. 2599; Gaz. vol. 174; p. 433.
Riegel, Clarence H., assignor to The Deforest Sheet & Tinplate Company, Niles, Ohio. Metal-shaping machine. No. 1,045,082; Nov. 19; Gaz. vol. 184; p. 770.
Riegler, Louis J., Ben Avon, Pa. Metallic tie. No. 1,043,727; Nov. 5; Gaz. vol. 184; p. 240.
Riegler, Lucius, West Hoboken, N. J. Car-coupling. No. 1,013,220; Jan. 2; Sp. p. 293; Gaz. vol. 174; p. 46.
Riehemann, Frank H., and H. Boehning, St. Louis, Mo. Motor device for boiler-tube cleaners. No. 1,028,136; June 4; Sp. p. 126; Gaz. vol. 179; p. 19.
Riemann, Henry A., Hannibal, Mo. Concrete-pile-making machine. No. 1,030,267; June 18; Sp. p. 4788; Gaz. vol. 179; p. 822.
Riemann, Otto, Hamburg, Germany. Press. No. 1,039,444; Sept. 24; Gaz. vol. 182; p. 855.
Rienow, Margarete. (See Habild, Bruno, assignor.)
Riepp, Joseph, New York, N. Y. Liquid-measuring tank. No. 1,015,636; Jan. 23; Sp. p. 5620; Gaz. vol. 174; p. 961.
Ries, Frank, assignor of one-half to J. G. Heilman, Tiffin, Ohio. Sharpening-machine. No. 1,015,075; Jan. 16; Sp. p. 4414; Gaz. vol. 174; p. 742.
Ries, Frederick C., Macon, Ga. Burglar-alarm. No. 1,018,926; Feb. 27; Sp. p. 5968; Gaz. vol. 175; p. 1028.
Ries, Harry W., Collingswood, N. J. Sign or card clamp. No. 1,026,772; May 21; Sp. p. 3708; Gaz. vol. 178; p. 642.
Riesenberg, Felix, New York, N. Y. Fountain-pen. No. 1,037,660; Sept. 3; Gaz. vol. 182; p. 163.
Rieske, Otto G., assignor to Monitor Drill Company, St. Louis Park, Minn. Disk attachment for drills. No. 1,015,458; Jan. 23; Sp. p. 5244; Gaz. vol. 174; p. 898.
Rieske, Otto G., St. Louis Park, Minn., assignor to The Monitor Drill Company. Disk furrow-opener. No. 1,017,109; Feb. 13; Sp. p. 1965; Gaz. vol. 175; p. 337.
Rieske, Otto G., Minneapolis, Minn., assignor to The Monitor Drill Company. Grain-drill. No. 1,017,318; Feb. 13; Sp. p. 2414; Gaz. vol. 175; p. 411.
Rieske, Otto G., St. Louis Park, Minn., assignor to The Monitor Drill Company. Grain-drill. No. 1,017,319; Feb. 13; Sp. p. 2418; Gaz. vol. 175; p. 411.
Rieske, Otto G., assignor to The Monitor Drill Company, St. Louis Park, Minneapolis, Minn. Disk attachment for drills. No. 1,030,247; June 18; Sp. p. 4731; Gaz. vol. 179; p. 814.
Rieske, Otto G., assignor to Monitor Drill Company, St. Louis Park, Minn. Disk attachment for drills. No. 1,046,221; Dec. 3; Gaz. vol. 185; p. 147.
Rieske, Otto G., assignor to The Monitor Drill Company, St. Louis Park, Minneapolis, Minn. Double-disk attachment for drills. No. 1,049,265; Dec. 31; Gaz. vol. 185; p. 1334.
Riess, Frederick W., Philadelphia, Pa. Automatic expansion valve-trap. No. 1,036,006; Aug. 20; Gaz. vol. 181; p. 609.
Riess, William H., Cincinnati, Ohio. Electric chain. No. 1,047,568; Dec. 17; Gaz. vol. 185; p. 687.
Rietzel, Adolph F., Stonington, Conn., assignor, by mesne assignments, to Thomson Electric Welding Company, Lynn, Mass. Composite sheet-metal work. No. 1,020,056; Mar. 12; Sp. p. 2229; Gaz. vol. 176; p. 384.
Rietzel, Adolph F., Charlestown, R. I., assignor to W. H. Rowe, Pittsburgh, Pa. Reel. No. 1,036,714; Aug. 27; Gaz. vol. 181; p. 888.
Rietzel, Adolph F., Charlestown, R. I., assignor to Thomson Electric Welding Company, Lynn, Mass. Pressure device for electric metal-working apparatus. No. 1,048,884; Dec. 31; Gaz. vol. 185; p. 1203.
Rietzel, Adolph F., Lynn, Mass., assignor, by mesne assignments, to Thomson Electric Welding Company. Joining metals. No. 1,040,418; Oct. 8; Gaz. vol. 183; p. 281.
Rietzel, Adolph F., assignor, by mesne assignments, to Thomson Electric Welding Company, Lynn, Mass. Construction of sheet-metal utensils. No. 1,041,351; Oct. 15; Gaz. vol. 183; p. 634.
Rietzel, Adolph F., and G. E. Barstow, assignors to Thomson Electric Welding Company, Lynn, Mass. Electric chain-welding machine. No. 1,040,760; Oct. 8; Gaz. vol. 183; p. 402.
Rietzel, Adolph F., Charlestown, R. I., and G. E. Barstow, assignors, by mesne assignments, to Thomson Electric Welding Company, Lynn, Mass. Electric metal-working apparatus. No. 1,041,673; Oct. 15; Gaz. vol. 183; p. 739.
Riexinger, George, Buffalo, N. Y. Mechanical toy. No. 1,015,343; Jan. 23; Sp. p. 4983; Gaz. vol. 174; p. 860.
Rife, Stanford W., San Marcos, Tex. Shock-absorber. No. 1,029,462; June 11; Sp. p. 3032; Gaz. vol. 179; p. 508.
Rifer, John L., Portland, Oreg. Releasing door-hanger. No. 1,027,504; May 28; Sp. p. 5308; Gaz. vol. 178; p. 930.
Rigaumont, Victor A., Pittsburgh, Pa. T-square and other drafting device. No. 1,029,225; June 11; Sp. p. 2503; Gaz. vol. 179; p. 425.
Rigby, George F., Jr. (See Redfield, Charles E., assignor.)

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Rigby, Thomas, Dumfries, Scotland. Internal-combustion engine of the tandem type. No. 1,018,372; Feb. 20; Sp. p. 4720; Gaz. vol. 175; p. 808.
Rigg, Gilbert, Palmerton, Pa., assignor to New Jersey Zinc Company, New York, N. Y. Means for protecting metallic surfaces from corrosion. No. 1,031,377; July 2; Gaz. vol. 180; p. 185.
Riggin, Henry H., Altoona, Pa. Valve. No. 1,020,449; Mar. 19; Sp. p. 3050; Gaz. vol. 176; p. 552.
Riggin, Robert. (See Fletcher and Riggin.)
Riggins, William R., Sierra Blanca, Tex. Spike. No. 1,044,420; Nov. 12; Gaz. vol. 184; p. 510.
Riggle, Charles D., McKeesport, Pa. Clothes-line reel. No. 1,015,459; Jan. 23; Sp. p. 5246; Gaz. vol. 174; p. 899.
Riggs, Addison H., Belmar, N. J. Outrigger-thwart for canoes. No. 1,037,990; Sept. 10; Gaz. vol. 182; p. 307.
Rightmire, John E., Los Angeles, Cal Surfacing-machine. No. 1,040,419; Oct. 8; Gaz. vol. 183; p. 281.
Riglander, Moses M., assignor to Hammel, Riglander & Co., New York, N. Y. Watch or clock spring carrier. No. 1,015,978; Jan. 30; Sp. p. 6346; Gaz. vol. 174; p. 1104.
Rigney, George W., Battle Creek, Mich. Door stop and holder. No. 1,026,702; May 21; Sp. p. 3543; Gaz. vol. 178; p. 618.
Rigney, William J., Brooklyn, N. Y. Apparatus for the manufacture of rock-candy. No. 1,031,199; July 2; Gaz. vol. 180; p. 125.
Rigsby, James V., and W. H. Royal, Macomb, Mo. Fly-trap. No. 1,026,222; May 14; Sp. p. 2506; Gaz. vol. 178; p. 420.
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Rikhoff, John L., Denver, Colo. Propeller. No. 1,024,700; Apr. 30; Sp. p. 6385; Gaz. vol. 177; p. 1125.
Riley, Bert E., La Harpe, Ill. Spring-wheel. No. 1,032,942; July 16; Gaz. vol. 180; p. 803.
Riley, Charles E. (See Kenway and Riley.)
Riley, Charles E., Charlestown, Ind. Suit-case handle. No. 1,029,634; June 18; Sp. p. 3387; Gaz. vol. 179; p. 603.
Riley, Daniel, Jr., Pittsfield, Ill. Gate. No. 1,044,915; Nov. 19; Gaz. vol. 184; p. 713.
Riley, Enoch T., Ozark, Ala. Grain-dropper. No. 1,037,319; Sept. 3; Gaz. vol. 182; p. 47.
Riley, Frederick. (See O'Connor and Riley.)
Riley, George W., Chicago, Ill. Non-refillable bottle. No. 1,027,003; May 21; Sp. p. 4239; Gaz. vol. 178; p. 722.
Riley, Hugh H., Memphis, Tenn. Rotatable pump-valve. No. 1,041,165; Oct. 15; Gaz. vol. 183; p. 571.
Riley, James W., Pittsburgh, Pa. Window-lock. No. 1,040,015; Oct. 1; Gaz. vol. 183; p. 114.
Riley, John F. (See Sargeant, Stephen D., assignor.)
Riley, Leland G. (See Babbitt, Elwin J., assignor.)
Riley, Robert S., Providence, R. I., assignor, by mesne assignments, to American Engineering Company, Philadelphia, Pa. Towing-machine. No. 1,020,928; Mar. 19; Sp. p. 4072; Gaz. vol. 176; p. 712.
Riley, William K., Los Angeles, assignor of one-half to P. Marx, Tehachapi, Cal. Bar for drills and the like. No. 1,030,830; June 25; Sp. p. 6381; Gaz. vol. 179; p. 1064.
Riley, William K., Los Angeles, assignor of one-half to P. Marx, Tehachapi, Cal. Drill-actuating mechanism. No. 1,030,832; June 25; Sp. p. 6384; Gaz. vol. 179; p. 1065.
Riley, William K., San Bernardino, assignor of one-half to P. Marx, Tehachapi, Cal. Formation of steel bars and the like. No. 1,030,831; June 25; Sp. p. 6382; Gaz. vol. 179; p. 1064.
Rilleau, François, Los Angeles, Cal. Aviator-protector. No. 1,027,764; May 28; Sp. p. 5832; Gaz. vol. 178; p. 1015.
Rilleau, Francois, Los Angeles, Cal. Airship life-saver. No. 1,046,023; Dec. 3; Gaz. vol. 185; p. 76.
Rilling, John E., Milwaukee, Wis. Chair. No. 1,025,645; May 7; Sp. p. 1207; Gaz. vol. 178; p. 186.
Rimailho, Emile, Neuilly-sur-Seine, France. Resilient tire. No. 1,039,805; Oct. 1; Gaz. vol. 183; p. 46.
Rimailho, Emile, Neuilly-sur-Seine, assignor to Société Anonyme des Suspensions et Roues Flexibles, Paris, France. Shock-absorbing device. No. 1,033,348; July 23; Gaz. vol. 180; p. 980.
Rime, Gilbert A., Northwood, N. D. Toothpick-holder. No. 1,047,296; Dec. 17; Gaz. vol. 185; p. 591.
Rindall, Joel, assignor of one-half to H. N. Segerstrom, Rhinelander, Wis. Guide-chart. No. 1,039,322; Sept. 24; Gaz. vol. 182; p. 813.
Rindfleisch, Benjamin, assignor to The National-Acme Manufacturing Company, Cleveland, Ohio. Floating tool-holder. No. 1,021,848; Apr. 2; Sp. p. 207; Gaz. vol. 177; p. 34.
Rindfleisch, Benjamin F., assignor to The National-Acme Manufacturing Company, Cleveland, Ohio. Mechanism for feeding angular-formed blanks. No. 1,037,320; Sept. 3; Gaz. vol. 182; p. 47.
Rinehart, Bentley L., Camden, N. J., assignor to Victor Talking Machine Company. Sound-box for talking-machines. No. 1,013,314; Jan. 2; Sp. p. 505; Gaz. vol. 174; p. 80.
Rinehart, Bentley L., Camden, N. J., assignor to Victor Talking Machine Company. Sound-box for talking-machines. No. 1,028,606; June 4; Sp. p. 1177; Gaz. vol. 179; p. 180.
Rinehart, John, Seymour, Ind. Car-door guide. No. 1,045,888; Dec. 3; Gaz. vol. 185; p. 32.
Rinfret, Thibodeau, *et al.* (See Gagnon, Edmond, assignor.)
Ring, Daniel J., Quincy, Mass. Garter. No. 1,046,493; Dec. 10; Gaz. vol. 185; p. 280.
Ringe, John C. (See Allen and Ringe.)
Ringe, John C., Bridgeport, Conn., assignor to The Singer Manufacturing Company. Gearing. No. 1,014,772; Jan. 16; Sp. p. 3749; Gaz. vol. 174; p. 638.
Ringe, John C., Bridgeport, Conn., assignor to The Singer Manufacturing Company. Needle-bar mechanism for sewing-machines. No. 1,020,057; Mar. 12; Sp. p. 2230; Gaz. vol. 176; p. 385.
Ringe, John C., Bridgeport, Conn., assignor to The Singer Manufacturing Company. Bobbin-case for sewing-machines. No. 1,026,926; May 21; Sp. p. 4049; Gaz. vol. 178; p. 695.
Ringe, John C., Bridgeport, Conn., assignor to The Singer Manufacturing Company. Feeding mechanism for sewing-machines. No. 1,047,136; Dec. 10; Gaz. vol. 185; p. 503.
Ringel, Herman, Newark, N. J. Phonograph for dolls or other toys. No. 1,015,587; Jan. 23; Sp. p. 5514; Gaz. vol. 174; p. 943.
Ringer, Roy R., Pittsburgh, Pa. Dispensing-box. No. 1,018,269; Feb. 20; Sp. p. 4504; Gaz. vol. 175; p. 774.
Rink, Fredrick, assignor to The Kursheedt Manufacturing Company, New York, N. Y. Decorated fabric. No. 1,026,125; May 14; Sp. p. 2291; Gaz. vol. 178; p. 386.
Rinker, James M. (See Kessler, Edward E., assignor.)
Rinman, Erik L. (See Langlet and Rinman.)
Rinman, Erik L., Harnäs, Sweden. Treating waste liquors from soda-pulp mills. No. 1,017,320; Feb. 13; Sp. p. 2422; Gaz. vol. 175; p. 411.
Rinman, Erik L., Harnäs, Sweden. Making sodium bicarbonate and organic substances from soda-pulp-waste liquor. No. 1,045,889; Dec. 3; Gaz. vol. 185; p. 32.
Rinner, Elijah C., Coshocton, Ohio. Paper-corrugator. No. 1,022,002; Apr. 2; Sp. p. 542; Gaz. vol. 177; p. 84.
Rinner, Michael, Fairfield, Conn. Folding crate. No. 1,016,523; Feb. 6; Sp. p. 675; Gaz. vol. 175; p. 101.
Rintoul, William, and A. G. Innes, Stevenston, Scotland, assignors to E. I. du Pont de Nemours Powder Company, Wilmington, Del. Condensing glycerin. No. 1,036,715; Aug. 27; Gaz. vol. 181; p. 888.
Riordan, Patrick D., Arnot, Pa. Aeroplane. No. 1,015,711; Jan. 23; Sp. p. 5781; Gaz. vol. 174; p. 985.
Riordan, Patrick D., New York, N. Y. Clothes-drier. No. 1,035,640; Aug. 13; Gaz. vol. 181; p. 450.
Ripberger, Jacob, Bellevue, assignor to C. A. Wissel, Dayton, Ky. Reverse-gear mechanism. No. 1,044,421; Nov. 12; Gaz. vol. 184; p. 510.
Ripken, Hugo F. (See Kingan and Ripken.)
Ripley, Giles E., W. N. Gladson, Fayetteville, and R. E. Thompson, Heber, Ark. Projecting apparatus for moving-picture machines. No. 1,025,074; Apr. 30; Sp. p. 7131; Gaz. vol. 177; p. 1253.
Ripley, John W., Flushing, assignor to Monks-Ripley Pile Company, New York, N. Y. Structural member. No. 1,046,858; Dec. 10; Gaz. vol. 185; p. 408.
Ripley, T. Charley. (See Crabtree and Ripley.)
Ripley, William R., Tacoma, Wash. Assembling-table for conical stave porch-columns. No. 1,024,147; Apr. 23; Sp. p. 5120; Gaz. vol. 177; p. 900.
Rippel, Albert F., Greenwich, Conn. Penholder. No.
Ripper, John J., and J. Bornander, Fellows, Cal. Automatic engine control. No. 1,037,661; Sept. 3; Gaz. vol. 182; p. 163.
Ripper, Joseph W. (See Shrum, Rae, and Ripper.)
Ripsom, William L., Denver, Colo. Rotary engine. No. 1,015,979; Jan. 30; Sp. p. 6348; Gaz. vol. 174; p. 1104.
Risberg, Johannes V. M., Fridhelm, Sweden, assignor to Aktiebolaget Baltic, Södertelje, Sweden. Float-valve for centrifugal liquid-separators. No. 1,032,704; July 16; Gaz. vol. 180; p. 726.
Risbon, Harvey, Langdondale, Pa. Ink-well. No. 1,048,344; Dec. 24; Gaz. vol. 185; p. 978.
Risdon, John F., Dent, Minn. Fish-hook extractor. No. 1,043,627; Nov. 5; Gaz. vol. 184; p. 206.
Risedorf, Harry L. (See Plath and Risedorf.)
Rising, G. Frank, *et al.* (See Thomas, Frank M., assignor.)
Risk, George, Brooklyn, N. Y. Pulley-block. No. 1,032,943; July 16; Gaz. vol. 180; p. 803.
Risley, George H., Minneapolis, Minn. Drum and cymbal beater. No. 1,033,270; July 23; Gaz. vol. 180; p. 955.
Rispel, Alexander, Chicago, Ill. Door check and holder. No. 1,035,235; Aug. 13; Gaz. vol. 181; p. 309.

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Risser, Arthur I., Chicago, Ill. Bottle-washing machine. No. 1,048,885; Dec. 31; Gaz. vol. 185; p. 1204.
Risser, Omer E., and P. E. McSweeney, Springfield, Mo. Compression-locking grease-cup. No. 1,033,828; July 30; Gaz. vol. 180; p. 1164.
Rissler, Albin P. (See Harrison and Rissler.)
Rissling, John C. (See Rissling, Louis J. and J. C.)
Rissling, Louis J. and J. C., Chicago, Ill. Water-heating apparatus. No. 1,035,236; Aug. 13; Gaz. vol. 181; p. 310.
Ritchel, Charles F., Bridgeport, Conn., assignor to The New York Safety Chest Company. Safety-receptacle. No. 1,018,444; Feb. 27; Sp. p. 4894; Gaz. vol. 175; p. 865.
Ritchell, Edward C., St. Paul, Minn., assignor to American Can Company, New York, N. Y. Lard-pail. No. 1,029,029; June 11; Sp. p. 2089; Gaz. vol. 179; p. 360.
Ritchie, Alexander, Detroit, Mich. Vehicle-top. No. 1,026,368; May 14; Sp. p. 2832; Gaz. vol. 178; p. 469.
Ritchie, Joshua R. (See Robertson, George L., assignor.)
Ritchie, William R. (See Schneider, Ritchie, and Kammerer.)
Riter-Conley Manufacturing Company. (See Rodman, Hibbard, and Carpenter, assignors.)
Ritschard, William, Detroit, Mich. Provision-chopper. No. 1,031,873; July 9; Gaz. vol. 180; p. 399.
Ritschard, William, Detroit, Mich. Combination-tool. No. 1,035,237; Aug. 13; Gaz. vol. 181; p. 310.
Ritter, Charles G., Ludlow, Ky., and J. J. Aull, assignors to The Lunkenheimer Company, Cincinnati, Ohio. Grease-cup. No. 1,031,734; July 9; Gaz. vol. 180; p. 350.
Ritter, Clyde, Bridgeton, N. J. Condiment-holder. No. 1,046,494; Dec. 10; Gaz. vol. 185; p. 281.
Ritter, Jacob, New York, N. Y. Lock for satchel-frames. No. 1,045,439; Nov. 26; Gaz. vol. 184; p. 923.
Ritter, Jacob, New York, N. Y. Lock for hand-bags. No. 1,047,569; Dec. 17; Gaz. vol. 185; p. 688.
Ritter, James H., Topeka, Ind. Cant-hook. No. 1,029,892; June 18; Sp. p. 3984; Gaz. vol. 179; p. 693.
Ritter, Richard H., Sedalia, Mo. Milling attachment for drill-presses. No. 1,029,402; June 11; Sp. p. 2916; Gaz. vol. 179; p. 487.
Ritter & Ritter. (See Card, Frank S., assignor.)
Ritter, Samuel T., Orefield, Pa. Automobile drive-gearing. No. 1,048,345; Dec. 24; Gaz. vol. 185; p. 978.
Rittweger, Wilhelm, Eberbach, Germany. Non-refillable bottle. No. 1,046,333; Dec. 3; Gaz. vol. 185; p. 186.
Ritzenhoff, Robert, Heidelberg, Germany. Inside vessel for fish-kettles and for other cooking utensils. No. 1,032,084; July 9; Gaz. vol. 180; p. 468.
Ritzman, Orson N., Pottsville, Pa. Playing-cards. No. 1,048,346; Dec. 24; Gaz. vol. 185; p. 979.
River & Rail Transportation Company. (See Kirchner, Henry W., assignor.)
Rivers, Alexander E. L. F. P., Salisbury, England. Golf-club. No. 1,049,266; Dec. 31; Gaz. vol. 185; p. 1334.
Rivers, Charles A., Denver, Colo. System for inflating pneumatic tires. No. 1,016,896; Feb. 6; Sp. p. 1457; Gaz. vol. 175; p. 226.
Rivers, F. A., *et al.* (See Montgomery, Arthur W., assignor.)
Rivers, James M., Fort Meade, Fla. Plow-beam. No. 1,031,588; July 2; Gaz. vol. 180; p. 255.
Rivers, John A., Monongah, W. Va. Mine-car-door lock. No. 1,026,964; May 21; Sp. p. 4161; Gaz. vol. 178; p. 710.
Rivers, Philip J., New Rochelle, N. Y. Automobile-wheel. No. 1,017,171; Feb. 13; Sp. p. 2097; Gaz. vol. 175; p. 360.
Rivers, Philip J., New Rochelle, N. Y. Safety-elevator. No. 1,038,961; Sept. 17; Gaz. vol. 182; p. 673.
Rivers, Philip J., New Rochelle, N. Y. Car-axle. No. 1,038,962; Sept. 17; Gaz. vol. 182; p. 674.
Riverside Engine Company. (See Gray, Edward, assignor.)
Rives, George H., New York, N. Y. Device for facilitating counting of money, dealing cards, turning leaves, &c. No. 1,016,362; Feb. 6; Sp. p. 276; Gaz. vol. 175; p. 43.
Rives, George H., Brooklyn, N. Y. Device for facilitating the counting of notes, dealing of cards, &c. No. 1,040,761; Oct. 8; Gaz. vol. 183; p. 402.
Rives, James D., assignor of one-fourth to J. W. Blosser, Atlanta, Ga. Building construction. No. 1,037,321; Sept. 3; Gaz. vol. 182; p. 48.
Rives, Samuel E., *et al.* (See Romans, John W., assignor.)
Rivett, Edward, Brighton, Mass. Bottoming device for lathe-chucks. No. 1,014,773; Jan. 16; Sp. p. 3750; Gaz. vol. 174; p. 638.
Rivett, Edward, assignor to Rivett Lathe & Grinder Company, Brighton, Mass. Screw compensating device for lathes. No. 1,045,890; Dec. 3; Gaz. vol. 185; p. 33.
Rivett Lathe & Grinder Company. (See Rivett, Edward, assignor.)
Rixson, Oscar C., New York, N. Y. Door-closing mechanism. No. 1,025,309; May 7; Sp. p. 447; Gaz. vol. 178; p. 71.
Rizer, Arthur D., assignor to The National Electrical Manufacturing Co., Elgin, Ill. Circuit-closing device. No. 1,034,510; Aug. 6; Gaz. vol. 181; p. 37.
Roach, Harry F., St. Louis, Mo. Rail-joint. No. 1,013,613; Jan. 2; Sp. p. 1133; Gaz. vol. 174; p. 181.
Roach, Harry F., St. Louis, Mo. Rail-joint. No. 1,013,852; Jan. 2; Sp. p. 1683; Gaz. vol. 174; p. 266.
Roach, Harry F., St. Louis, Mo. Mechanism for actuating and locking the movable elements of railway-track structures. No. 1,014,095; Jan. 9; Sp. p. 2243; Gaz. vol. 174; p. 375.
Roadhouse, Norman F., assignor to A. F. and E. H. Sellers, Detroit, Mich. Frictional transmission mechanism. No. 1,049,149; Dec. 31; Gaz. vol. 185; p. 1294.
Roake, James, Oregon City, Oreg. Leveling device. No. 1,014,519; Jan. 9; Sp. p. 3137; Gaz. vol. 174; p. 522.
Robail, Paul C. A., Franières, Belgium, assignor to Societe Anonyme des Manufactures des Glaces et Produits Chimiques de Saint Gobain, Chauny et Circy, Paris, France. Safety-gripper for manipulating glass plates and other articles. No. 1,049,150; Dec. 31; Gaz. vol. 185; p. 1294.
Robb, Edwin G., Minneapolis, Minn. Attachment for printing-presses. No. 1,026,606; May 14; Sp. p. 3313; Gaz. vol. 178; p. 547.
Robb Engineering Company. (See Brady, Harry V., assignor.)
Robb, James L., Amistad, N. Mex. Gas and electric fixture attachment. No. 1,035,743; Aug. 13; Gaz. vol. 181; p. 483.
Robb, James T., assignor to The Mitchell Vance Co., New York, N. Y. Lighting-fixture. No. 1,022,875; Apr. 9; Sp. p. 2393; Gaz. vol. 177; p. 409.
Robb, John F. (See Coneby, William H., assignor.)
Robb, Lewis J., assignor to Heyl & Patterson Inc., Pittsburgh, Pa. Clam-shell bucket. No. 1,046,334; Dec. 3; Gaz. vol. 185; p. 186.
Robb, William J., and W. H. Welch, assignors to Banner Motors Limited, Bristol, England. Internal-combustion engine. No. 1,033,939; July 30; Gaz. vol. 180; p. 1203.
Robbins, Alice G., assignor to The Child's Welfare Company, Indianapolis, Ind. Kindergarten-table. No. 1,018,373; Feb. 20; Sp. p. 4721; Gaz. vol. 175; p. 808.
Robbins, Ashton E., Ceiba, Spanish Honduras. Banana pack-saddle. No. 1,040,016; Oct. 1; Gaz. vol. 183; p. 114.
Robbins, Charles A. (See Nelson, Robert H., assignor.)
Robbins, Charles A., Dixon, Ill. Tank-valve. No. 1,015,980; Jan. 30; Sp. p. 6351; Gaz. vol. 174; p. 1105.
Robbins, George, Minneapolis, Minn. Multicompartment cabinet. No. 1,013,444; Jan. 2; Sp. p. 777; Gaz. vol. 174; p. 124.
Robbins, George, Minneapolis, Minn. Multicompartment cabinet. No. 1,035,641; Aug. 13; Gaz. vol. 181; p. 450.
Robbins, George B. (See Sharp, William E., assignor.)
Robbins, George B., and W. E. Sharp, Chicago, Ill. Combination refrigerator, heater, and ventilator car. No. 1,013,517; Jan. 2; Sp. p. 931; Gaz. vol. 174; p. 149.
Robbins, Henry W., Arlington, Tex. Seed-planter. No. 1,039,806; Oct. 1; Gaz. vol. 183; p. 46.
Robbins, John E. (See Kirkpatrick, Robbins, and Kirkpatrick.)
Robbins, John F., Hamlin, Tex. Harrow. No. 1,018,344; Feb. 20; Sp. p. 4643; Gaz. vol. 175; p. 798.
Robbins, Lewis S., and J. R. Davis, Vine Grove, Ky. Resilient wheel. No. 1,047,297; Dec. 17; Gaz. vol. 185; p. 592.
Robbins, Meyer L., New York, N. Y. Bracelet. No. 1,022,798; Apr. 9; Sp. p. 2241; Gaz. vol. 177; p. 384.
Robbins, Meyer L., New York, N. Y. Article of jewelry. No. 1,032,025; July 9; Gaz. vol. 180; p. 449.
Robbins, Meyer L., New York, N. Y. Setting for articles of jewelry. No. 1,035,909; Aug. 20; Gaz. vol. 181; p. 578.
Robbins, Meyer L., New York, N. Y. Bracelet. No. 1,036,716; Aug. 27; Gaz. vol. 181; p. 888.
Robbins, Meyer L., assignor to Untermeyer-Robbins & Company, New York, N. Y. Bracelet. No. 1,018,587; Feb. 27; Sp. p. 5271; Gaz. vol. 175; p. 916.
Robbins, Meyer L., assignor to Untermeyer-Robbins & Company, New York, N. Y. Bracelet. No. 1,024,101; Apr. 23; Sp. p. 5006; Gaz. vol. 177; p. 884.
Robbins, Peter R., Philadelphia, Pa. Attachment for hose. No. 1,027,155; May 21; Sp. p. 4605; Gaz. vol. 178; p. 773.
Robbins, Rolland, Crafton, assignor to The Sanitary Fountain and Vending Machine Company, Pittsburgh, Pa. Cup-vending machine. No. 1,023,097; Apr. 9; Sp. p. 2855; Gaz. vol. 177; p. 486.
Robbins, William J. (See Doherty and Robbins.)
Roberson, Erastus E., assignor of two-thirds to W. A. Huelsdonk, Le Grand, Cal. Suction-dredger. No. 1,028,387; June 4; Sp. p. 701; Gaz. vol. 179; p. 107.
Roberson, William A., Jeffersonville, Ind. Liquid-heating receptacle. No. 1,042,144; Oct. 22; Gaz. vol. 183; p. 935.
Robert, Charles, Cedar Rapids, Iowa. Garment-hanger. No. 1,015,076; Jan. 16; Sp. p. 4416; Gaz. vol. 174; p. 742.
Robert G. Speer Corporation, The. (See Speer, Robert G., assignor.)
Robert Gair Company. (See Hoyt, Guy L., assignor.)
Robert Gair Company. (See West, James, assignor.)

Alphabetical list of patentees—Continued.

Robert Holmes & Brothers. (See Holmes, Grant, assignor.)
Robert N. Bassett Company, The. (See Russ and Stuart, assignors.)
Robert N. Bassett Company, The. (See Smith, George A., assignor.)
Roberti, Auguste, Waremme, Belgium. Manufacture of cattle food. No. 1,015,838; Jan. 30; Sp. p. 6044; Gaz. vol. 174; p. 1055.
Roberts, Albert E., Norwalk, Ohio. Rubber overshoe. No. 1,027,438; May 28; Sp. p. 5183; Gaz. vol. 178; p. 909.
Roberts, Alexander, *et al.* (See Libert, Fred, assignor.)
Roberts, Alexander, and A. Libert, Green Bay, Wis. Log peeling and trimming machine. No. 1,016,442; Feb. 6; Sp. p. 472; Gaz. vol. 175; p. 72.
Roberts, Alfred E., Sausalito, and A. L. Emery, Palo Alto, Cal. Transporting oil long distances. No. 1,016,958; Feb. 13; Sp. p. 1622; Gaz. vol. 175; p. 285.
Roberts, Andrew J., Lickcreek, Ill. Hay-sling. No. 1,045,748; Nov. 26; Gaz. vol. 184; p. 1033.
Roberts, Arthur, *et al.* (See Moss, Robert S., assignor.)
Roberts, Arthur, Streator, Ill. Excavator-wheel. No. 1,021,113; Mar. 26; Sp. p. 4461; Gaz. vol. 176; p. 825.
Roberts, Augusta L. (See Kahne and Roberts.)
Roberts, Carl E., Atchison, Kans. Concrete-mixer. No. 1,015,981; Jan. 30; Sp. p. 6352; Gaz. vol. 174; p. 1105.
Roberts, Charles W., Los Angeles, Cal. Window-fastener. No. 1,035,470; Aug. 13; Gaz. vol. 181; p. 392.
Roberts, Daniel A., Elmira, N. Y. Window-shade bracket. No. 1,036,717; Aug. 27; Gaz. vol. 181; p. 889.
Roberts, Daniel W. (See Perkins and Roberts.)
Roberts, David A., St. George Bristol, assignor to C. Anthony, Twickenham, England. Driving-belt. No. 1,049,267; Dec. 31; Gaz. vol. 185; p. 1334.
Roberts, Dermont H., Pocatello, Idaho, and J. Peterson, Price, assignors of one-third to F. C. Johnson, Salt Lake City, Utah. Copy-holder. No. 1,044,574; Nov. 19; Gaz. vol. 184; p. 593.
Roberts, Edward W., Los Angeles, Cal. Hat-pin protector. No. 1,025,722; May 7; Sp. p. 1363; Gaz. vol. 178; p. 212.
Roberts, Elmer E., Balko, Okla. Tooth-fastener for threshing-machine concaves and cylinders. No. 1,015,743; Jan. 23; Sp. p. 5846; Gaz. vol. 174; p. 997.
Roberts, Eugene, and A. H. Gibson, Lehi, Utah. Tip for sugar-separators. No. 1,015,510; Jan. 23; Sp. p. 3340; Gaz. vol. 174; p. 916.
Roberts, Frank, Chicago, Ill. Printing-press attachment. No. 1,033,940; July 30; Gaz. vol. 180; p. 1204.
Roberts, Frank C., Nashville, Tenn. Folding bed. No. 1,024,284; Apr. 23; Sp. p. 5418; Gaz. vol. 177; p. 949.
Roberts, Frank C., Wynnewood, Pa. Furnace-cooling. No. 1,030,792; June 25; Sp. p. 6210; Gaz. vol. 179; p. 1050.
Roberts, Frank C., Wynnewood, Pa. Hot-blast stove for heating air, steam, or other gases, and brick therefor. No. 1,032,505; July 16; Gaz. vol. 180; p. 655.
Roberts, Frank C., Wynnewood, Pa. Furnace-top. No. 1,033,034; July 16; Gaz. vol. 180; p. 834.
Roberts, Frank C., Wynnewood, Pa. Furnace-top. No. 1,033,035; July 16; Gaz. vol. 180; p. 835.
Roberts, Frank C., Wynnewood, Pa. Charging furnaces. No. 1,033,036; July 16; Gaz. vol. 180; p. 835.
Roberts, Fred H., Sterling, Colo. Valve for pressure-pumps. No. 1,014,178; Jan. 9; Sp. p. 2409; Gaz. vol. 174; p. 404.
Roberts, George B., New York, and M. T. Flanagan, North Tarrytown, N. Y. Window-lock. No. 1,037,662; Sept. 3; Gaz. vol. 182; p. 163.
Roberts, George G., Toledo, Ohio. Bottle-case. No. 1,022,971; Apr. 9; Sp. p. 2607; Gaz. vol. 177; p. 443.
Roberts, George H., Thomas, Okla. Whiffletree-hook. No. 1,037,322; Sept. 3; Gaz. vol. 182; p. 48.
Roberts, George R. W., and H. H. Seely, Alameda, Cal. Fluid-actuated gong. No. 1,047,706; Dec. 17; Gaz. vol. 185; p. 735.
Roberts, George W., Menard, Tex. Valve. No. 1,044,422; Nov. 12; Gaz. vol. 184; p. 510.
Roberts, Griffith D., Columbus, Wis. Pneumatic hammer. No. 1,037,323; Sept. 3; Gaz. vol. 182; p. 48.
Roberts, Harry, Atlantic City, N. J. Hat-pin guard. No. 1,019,840; Mar. 12; Sp. p. 1773; Gaz. vol. 176; p. 311.
Roberts, Henry P., Boston, Mass. Apparatus for sanding roads. No. 1,025,646; May 7; Sp. p. 1209; Gaz. vol. 178; p. 186.
Roberts, Henry P., assignor of two-thirds to H. W. May, Somerville, and H. S. Warner, Boston, Mass. Beating and mixing device. No. 1,038,204; Sept. 10; Gaz. vol. 182; p. 376.
Roberts, Henry P., assignor of one-third to H. S. Warner, Boston, and one-third to H. W. May, Somerville, Mass. Beating and mixing device. No. 1,046,648; Dec. 10; Gaz. vol. 185; p. 335.
Roberts, Homer J., Evanston, Ill., assignor, by mesne assignments, to Homer Roberts Telephone Co. Telephone switchboard apparatus and circuits therefor. No. 1,031,667; July 2; Gaz. vol. 180; p. 284.
Roberts, Homer J., Evanston, Ill., assignor, by mesne assignments, to Homer Roberts Telephone Co. Ringer for telephones, &c. No. 1,037,537; Sept. 3; Gaz. vol. 182; p. 122.
Roberts, Horace L., New York, N. Y. Presser-foot for pamphlet-stitching machines. No. 1,015,077; Jan. 16; Sp. p. 4417; Gaz. vol. 174; p. 743.
Roberts, Horace L., New York, N. Y. Bag-looping machine. No. 1,019,186; Mar. 5; Sp. p. 397; Gaz. vol. 176; p. 63.
Roberts, Horace L., Brooklyn, N. Y. Paper-bag-suspending means. No. 1,019,187; Mar. 5; Sp. p. 400; Gaz. vol. 176; p. 63.
Roberts, Horace W., Allentown, Pa. Tire-shoe support. No. 1,031,469; July 2; Gaz. vol. 180; p. 217.
Roberts, James O., and J. W. Nunn, Granger, Tex. Starting device for engines. No. 1,037,663; Sept. 3; Gaz. vol. 182; p. 164.
Roberts, John H., Chicago, Ill., assignor, by mesne assignments, to Z. G. Simmons, Kenosha, Wis., A. W. Preston, Swampscott, and B. W. Palmer, Boston, Mass., trustees. Treating sugar-cane. No. 1,040,562; Oct. 8; Gaz. vol. 183; p. 331.
Roberts, John W., Sarnia, Ontario, Canada. Flexible pipe connection. No. 1,023,274; Apr. 16; Sp. p. 3283; Gaz. vol. 177; p. 586.
Roberts, John W., Asotin, Wash. Sliding block. No. 1,039,807; Oct. 1; Gaz. vol. 183; p. 47.
Roberts, John W., and A. P. Brewster, Passaic, N. J. Stop mechanism for sewing-machines. No. 1,042,602; Oct. 29; Gaz. vol. 183; p. 1120.
Roberts, Judson O., Cripple Creek, Colo. Engine-starter. No. 1,030,430; June 25; Sp. p. 5168; Gaz. vol. 179; p. 919.
Roberts, Lily, *et al.* (See Randle, Millard F., assignor.)
Roberts, Margaret A. V., *et al.* (See Randle, Millard F., assignor.)
Roberts, Robert M., Anderson, Ind. Carbureter. No. 1,013,955; Jan. 9; Sp. p. 1943; Gaz. vol. 174; p. 329.
Roberts, Sherman C., Wichita, Kans. Hay-grinding machine. No. 1,027,765; May 28; Sp. p. 5834; Gaz. vol. 178; p. 1015.
Roberts, Wayne C., and G. E. Corser, Holyoke, Mass. Apparatus for removing old paper from walls. No. 1,018,345; Feb. 20; Sp. p. 4645; Gaz. vol. 175; p. 798.
Roberts, William F. (See Arundel, Clarence E., assignor.)
Roberts, William F. (See Wiesengrund and Roberts.)
Roberts, William T. B. (See Bates and Roberts.)
Robertson, Albert, assignor of one-third to J. E. Glenn, Fruitvale, Idaho. Head-gate. No. 1,027,903; May 28; Sp. p. 6204; Gaz. vol. 178; p. 1064.
Robertson, Alexander, Harrison Hot Springs, British Columbia, Canada. Grafting-machine. No. 1,023,038; Apr. 9; Sp. p. 2728; Gaz. vol. 177; p. 466.
Robertson, Archibald, Duluth, Minn. Furnace. No. 1,014,724; Jan. 16; Sp. p. 3640; Gaz. vol. 174; p. 622.
Robertson, Charles J., Taunton, Mass., assignor, by mesne assignments, to The Autoplate Company of America, Jersey City, N. J. Mechanical movement. No. 1,019,188; Mar. 5; Sp. p. 401; Gaz. vol. 176; p. 64.
Robertson, Charles J., Taunton, Mass., assignor, by mesne assignments, to The Autoplate Company of America, Jersey City, N. J. Mechanical movement. No. 1,033,941; July 30; Gaz. vol. 180; p. 1204.
Robertson, David. (See Buffinger and Robertson.)
Robertson, Donald, and J. A. Atkinson, New Westminster, British Columbia, Canada. Roof-rafter-calculating device. No. 1,027,766; May 28; Sp. p. 5835; Gaz. vol. 178; p. 1017.
Robertson, Ernest L., I. L. Miller, and H. E. Sturdyvin, Greenville, S. C. Valve-gear. No. 1,047,896; Dec. 17; Gaz. vol. 185; p. 801.
Robertson, George L., assignor of one-half to J. R. Ritchie, Philadelphia, Pa. Pneumatic hammer. No. 1,048,099; Dec. 24; Gaz. vol. 185; p. 897.
Robertson, George W. (See Ferguson and Robertson.)
Robertson, George W., Mount Vernon, Ind. Combination spring-seat and spring-back. No. 1,032,243; July 9; Gaz. vol. 180; p. 523.
Robertson, James, Perth, Ontario, Canada. Latch-lock. No. 1,045,891; Dec. 3; Gaz. vol. 185; p. 33.
Robertson, James G., St. Louis, Mo. Attachment for numbering devices. No. 1,041,674; Oct. 15; Gaz. vol. 183; p. 740.
Robertson, Jeff D., Paducah, Ky. Obstetrical pad. No. 1,021,891; Apr. 2; Sp. p. 298; Gaz. vol. 177; p. 49.
Robertson, John N., Maricopa, Cal. Pump-valve. No. 1,027,280; May 21; Sp. p. 4852; Gaz. vol. 178; p. 817.
Robertson, Macpherson, Fitzroy, Victoria, Australia. Coating confectionery. No. 1,021,705; Mar. 26; Sp. p. 5708; Gaz. vol. 176; p. 1026.
Robertson, Phillip W., assignor to F. Hedley, New York, N. Y. Combined buffer and anticlimber construction. No. 1,049,268; Dec. 31; Gaz. vol. 185; p. 1335.
Robertson, Walter M. (See Crump and Robertson.)
Robertson, William, Cleveland, Ohio. Labeling-machine. No. 1,038,658; Sept. 17; Gaz. vol. 182; p. 568.
Robertson, William, assignor to Frontier Iron Works, Buffalo, N. Y. Drill-press. No. 1,032,430; July 16; Gaz. vol. 180; p. 631.
Robeson, Anthony M., and A. Davidson, Johannesburg, Transvaal. Centrifugal pump. No. 1,025,425; May 7; Sp. p. 695; Gaz. vol. 178; p. 110.

Alphabetical list of patentees—Continued.

Robeson Cutlery Company. (See Cooper, James E., assignor.)
Robeson, Edna G., Atlanta, Ga. Device for changing rolls of paper. No. 1,026,369; May 14; Sp. p. 2834; Gaz. vol. 178; p. 469.
Robeson, Jacob S., Camden, N. J. Pyrites briquet and making same. No. 1,013,614; Jan. 2; Sp. p. 1138; Gaz. vol. 174; p. 181.
Robeson, Oscar W., Carroll, Iowa. Washing-machine. No. 1,022,003; Apr. 2; Sp. p. 545; Gaz. vol. 177; p. 85.
Robie, Frank, Ashland, N. H. Cartridge-belt. No. 1,016,231; Jan. 30; Sp. p. 6851; Gaz. vol. 174; p. 1190.
Robillot, Louis, Besançon, France. Automatic air-current-actuated alarm. No. 1,025,310; May 7; Sp. p. 453; Gaz. vol. 178; p. 71.
Robin, Jacob I., London, England. Machine for use in the manufacture of incandescent gas-mantles. No. 1,048,430; Dec. 24; Gaz. vol. 185; p. 1007.
Robinet, Georges, assignor to G. H. Mumm & Co., Rheims, France. Tin-foil cap for champagne and other bottles. No. 1,025,647; May 7; Sp. p. 1210; Gaz. vol. 178; p. 186.
Robins Conveying Belt Company. (See Proal, Arthur B., Jr., assignor.)
Robins Conveying Belt Company. (See Wentz, Jere L., assignor.)
Robins, George, Jackson, Mich. Horseshoe. No. 1,036,718; Aug. 27; Gaz. vol. 181; p. 889.
Robins, Oliver W., Cedar Rapids, Iowa. Ice-edger. No. 1,042,481; Oct. 29; Gaz. vol. 183; p. 1078.
Robinson, Arthur W., Montreal, Quebec, Canada. Dipper arm for steam shovels, dredges, and the like. No. 1,047,991; Dec. 24; Gaz. vol. 185; p. 860.
Robinson, Beverly M., Calgary, Alberta, Canada. Measuring device for powder-boxes. No. 1,109,702; Mar. 5; Sp. p. 1507; Gaz. vol. 176; p. 233.
Robinson, Charles J., assignor of one-half to E. E. Creelman, Bremerton, Wash. Variable-speed-transmission device. No. 1,027,767; May 28; Sp. p. 5837; Gaz. vol. 178; p. 1016.
Robinson, Charles S., Youngstown, Ohio. Furnace-cover. No. 1,029,319; June 11; Sp. p. 2713; Gaz. vol. 179; p. 459.
Robinson, Clarence I., West New Brighton, N. Y., assignor to Standard Oil Company, Bayonne, N. J. Utilizing acid sludge from refining petroleum. No. 1,014,520; Jan. 9; Sp. p. 3138; Gaz. vol. 174; p. 522.
Robinson, Clarence I., West New Brighton, N. Y., assignor to Standard Oil Company, Bayonne, N. J. Utilizing sulfur containing petroleum. No. 1,018,374; Feb. 20; Sp. p. 4723; Gaz. vol. 175; p. 809.
Robinson, Clark, assignor to C. G. Taylor and W. Bartelt, Spokane, Wash. Lock-ferrule. No. 1,026,223; May 14; Sp. p. 2507; Gaz. vol. 178; p. 420.
Robinson, Cyrus, assignor to Westinghouse Machine Company, Pittsburgh, Pa. Gas-engine. No. 1,028,492; June 4; Sp. p. 947; Gaz. vol. 179; p. 142.
Robinson, Duncan, Boston, Mass. Elastic suspension means for vehicle-bodies. No. 1,033,349; July 23; Gaz. vol. 180; p. 981.
Robinson, Earle T., University, assignor to Robinson Fire Apparatus Manufacturing Company, St. Louis, Mo. Piston. No. 1,038,510; Sept. 10; Gaz. vol. 182; p. 483.
Robinson, Ebenezer. (See Tucker, George E., assignor.)
Robinson, Edward P. (See Whaley and Robinson.)
Robinson, Edward P., Malden, Mass., assignor to Reversible Gas-Engine Company. Throttle-controlling device for internal-combustion engines. No. 1,040,017; Oct. 1; Gaz. vol. 183; p. 115.
Robinson, Edward P., Malden, Mass., assignor to Reversible Gas-Engine Company. Internal-combustion engine. No. 1,040,018; Oct. 1; Gaz. vol. 183; p. 115.
Robinson, Edward W., Schenectady, N. Y., assignor to General Electric Company. Magnetic brake. No. 1,046,024; Dec. 3; Gaz. vol. 185; p. 76.
Robinson Fire Apparatus Manufacturing Company. (See Robinson, Earle T., assignor.)
Robinson, Frank N., Wayland, N. Y. Brake. No. 1,015,078; Jan. 16; Sp. p. 4419; Gaz. vol. 174; p. 743.
Robinson, Frank W., assignor, by mesne assignments, to The Nolde & Horst Co., Reading, Pa. Drop-stitch mechanism for knitting-machines. No. 1,021,799; Apr. 2; Sp. p. 94; Gaz. vol. 177; p. 19.
Robinson, Frank W., assignor, by mesne assignments, to The Nolde & Horst Co., Reading, Pa. Loop-doubling mechanism. No. 1,021,800; Apr. 2; Sp. p. 96; Gaz. vol. 177; p. 19.
Robinson, Frederick, Chicago, Ill. Spring-support for motor-cycle and other saddles. No. 1,015,712; Jan. 23; Sp. p. 5782; Gaz. vol. 174; p. 986.
Robinson, Frederick C. (See Lamb and Robinson.)
Robinson, George E., Medford, Oreg. Automobile stay-strap. No. 1,030,539; June 25; Sp. p. 5456; Gaz. vol. 179; p. 958.
Robinson, George M. (See Shue, Philip H., assignor.)
Robinson, George M., and J. O. Parker, Los Angeles, Cal. Flying-machine. No. 1,044,691; Nov. 19; Gaz. vol. 184; p 635.
Robinson, George W., *et al.* (See Quinn, William E., assignor.)
Robinson, Hanson, South Bend, Ind. Flushing-nozzle. No. 1,033,195; July 23; Gaz. vol. 180; p. 929.
Robinson, Harry B., Muskegon, Mich. Water-glass fixture for steam-boilers. No. 1,020,623; Mar. 19; Sp. p. 3443; Gaz. vol. 176; p. 609.
Robinson, Harry B., Muskegon, Mich. Hose-coupling. No. 1,029,715; June 18; Sp. p. 3586; Gaz. vol. 179; p. 633.
Robinson, Harry E., Zanesville, Ohio. Combined reamer and threader. No. 1,041,675; Oct. 15; Gaz. vol. 183; p. 740.
Robinson, Harry K. (See Stinger and Robinson.)
Robinson, Harry V., Pittsburgh, Pa. Game apparatus. No. 1,022,876; Apr. 9; Sp. p. 2396; Gaz. vol. 177; p. 410.
Robinson, Henry, South Orange, N. J. Polishing-machine. No. 1,015,249; Jan. 16; Sp. p. 4745; Gaz. vol. 174; p. 800.
Robinson, Henry, South Orange, N. J. Vegetable-paring machine. No. 1,031,735; July 9; Gaz. vol. 180; p. 350.
Robinson, Henry, Newark, N. J. Polishing-machine. No. 1,036,719; Aug. 27; Gaz. vol. 181; p. 889.
Robinson, Herbert E., Providence, R. I. Fastener. No. 1,037,991; Sept. 10; Gaz. vol. 182; p. 307.
Robinson, Hugh G., San Francisco, Cal. Game apparatus. No. 1,046,222; Dec. 3; Gaz. vol. 185; p. 147.
Robinson, Isabella E. (See Trossin, Otto, assignor.)
Robinson, James H., assignor of one-half to F. M. Moxley, Lewiston, Idaho. Safety-pin. No. 1,030,431; June 25; Sp. p. 5172; Gaz. vol. 179; p. 920.
Robinson, John G., Manchester, England. Pressure-release valve. No. 1,035,238; Aug. 13; Gaz. vol. 181; p. 311.
Robinson, John H., Washington, D. C. Tariff-chart. No. 1,029,085; June 11; Sp. p. 2214; Gaz. vol. 179; p. 378.
Robinson, John M., *et al.* (See Quinn, William E., assignor.)
Robinson, John O., Albia, Iowa. Burial-vault. No. 1,049,269; Dec. 31; Gaz. vol. 185; p. 1335.
Robinson, Jonathan J., Bloomsburg, Pa. Screen. No. 1,043,253; Nov. 5; Gaz. vol. 184; p. 73.
Robinson, Joseph H. and L. F., Adams, Tenn. Combined planter and fertilizer-distributer. No. 1,019,189; Mar. 5; Sp. p. 404; Gaz. vol. 176; p. 64.
Robinson, Lawrence E., Coffeyville, Kans. Alarm and sash-lock. No. 1,017,804; Feb. 20; Sp. p. 3481; Gaz. vol. 175; p. 612.
Robinson, Lillard F. (See Robinson, Joseph H. and L. F.)
Robinson Loomis Motor Truck Co. *et al.* (See Swanson, John H., assignor.)
Robinson, Louis, assignor to L. Robinson and D. H. Greenberg, New York, N. Y. Adjustable garment. No. 1,043,972; Nov. 12; Gaz. vol. 184; p. 357.
Robinson, Nathaniel G., Woolstock, Iowa. Friction power-transmission mechanism. No. 1,036,007; Aug. 20; Gaz. vol. 181; p. 609.
Robinson, Patrick H., assignor to Scovill Manufacturing Company, Waterbury, Conn. Shade-holder attachment for electric-light sockets. No. 1,018,270; Feb. 20; Sp. p. 4505; Gaz. vol. 175; p. 774.
Robinson, Richard, Pittsburgh, Pa. Gas-purifier. No. 1,016,290; Feb. 6; Sp. p. 121; Gaz. vol. 175; p. 19.
Robinson, Robert A. (See Mock, Winfield S., assignor.)
Robinson, Robert P. (See Tuttle, Joseph B., assignor.)
Robinson, Robert P. (See Tuttle and Robinson.)
Robinson, Roy, Portland, Oreg. Photo printing-frame. No. 1,030,540; June 25; Sp. p. 5456; Gaz. vol. 179; p. 959.
Robinson, Roy H., Chicago, Ill. Composite building-frame structure. No. 1,038,440; Sept. 10; Gaz. vol. 182; p. 459.
Robinson, T. F., *et al.* (See Swanson, John H., assignor.)
Robinson, Theodore D., Lockport, N. Y. Radiator. No. 1,021,334; Mar. 26; Sp. p. 4941; Gaz. vol. 176; p. 902.
Robinson, Thomas, Everett, Wash. Machine for patching lumber. No. 1,048,886; Dec. 31; Gaz. vol. 185; p. 1204.
Robinson, Thomas C., deceased, Everett, Mass.; E. J. Savage, administratrix. Invalid-bedstead. No. 1,021,335; Mar. 26; Sp. p. 4943; Gaz. vol. 176; p. 902.
Robinson, Thomas W., Streatham, London, England. Wheel and axle for roller-skates. No. 1,033,271; July 23; Gaz. vol. 180; p. 955.
Robinson, William, Brooklyn, N. Y. Turbine. No. 1,030,328; June 25; Sp. p. 4949; Gaz. vol. 179; p. 882.
Robinson, William, Brooklyn, N. Y. Turbine. No. 1,030,329; June 25; Sp. p. 4952; Gaz. vol. 179; p. 883.
Robinson, William C., Pittsburgh, Pa. Fitting for electric conduits. (Reissue.) No. 13,475; Oct. 8; Gaz. vol. 183; p. 479.
Robinson, William C., Cambridge, Mass. Toy. No. 1,044,248; Nov. 12; Gaz. vol. 184; p. 451.
Robinson, William E. G. (See Robinson, William L. and W. E. G.)
Robinson, William H., New York, N. Y. Machine element. No. 1,036,720; Aug. 27; Gaz. vol. 181; p. 890.
Robinson, William H., New York, N. Y. Butter-cutting machine. No. 1,047,298; Dec. 17; Gaz. vol. 185; p. 592.
Robinson, William L. and W. E. G., Concord, N. C. Spindle. No. 1,037,324; Sept. 3; Gaz. vol. 182; p. 49.

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Robinson, William V., assignor to The Independent Stove Company, Owosso, Mich. Plate-lifter. No. 1,033,350; July 23; Gaz. vol. 180; p. 981.
Robischung, Henry B., Cloverdale, Mich., assignor to Chicago Railway Equipment Company, Chicago, Ill. Brake-head. No. 1,022,331; Apr. 2; Sp. p. 1215; Gaz. vol. 177; p. 194.
Robison, Charles E., Harrisburg, Pa. High and low water alarm for steam-boilers. No. 1,045,892; Dec. 3; Gaz. vol. 185; p. 33.
Robison, Clinton S., Chicago, Ill. Treating brewers' slops. No. 1,016,291; Feb. 6; Sp. p. 123; Gaz. vol. 175; p. 19.
Robison, Edward J., Chillicothe, Mo. Adjustable bed. No. 1,043,728; Nov. 5; Gaz. vol. 184; p. 240.
Robison, William N., Canyon, Tex. System of subirrigation. No. 1,015,401; Jan. 23; Sp. p. 5100; Gaz. vol. 174; p. 879.
Robson, George, Murray, Ohio. Pump. No. 1,021,892; Apr. 2; Sp. p. 299; Gaz. vol. 177; p. 49.
Roby, Austin H., Malden, and C. H. Cutter, Somerville, Mass. Poster-holder. No. 1,017,805; Feb. 20; Sp. p. 3483; Gaz. vol. 175; p. 612.
Roby, Clayton E. (See Martin and Roby.)
Roby, Le Roy H., Fostoria, Ohio. Street-cleaning machine. No. 1,015,637; Jan. 23; Sp. p. 5622; Gaz. vol. 174; p. 962.
Roby, Luther E. (See Pattison and Roby.)
Roby, Luther E., and C. A. Pattison, Peoria, Ill. Grain-drill. No. 1,041,166; Oct. 15; Gaz. vol. 183; p. 571.
Roby, William E., Indianapolis, Ind. Carbureter. No. 1,027,768; May 28; Sp. p. 5839; Gaz. vol. 178; p. 1017.
Roca, Miguel, New York, N. Y. Apparatus for nautical charting and navigating. No. 1,016,176; Jan. 30; Sp. p. 6742; Gaz. vol. 174; p. 1172.
Rocereto, Mario S., and L. D. Bert, Pittsburgh, Pa. Display-rack. No. 1,015,079; Jan. 16; Sp. p. 4422; Gaz. vol. 174; p. 744.
Rochat, Maurice, New York, N. Y. Propelling device for land and water. No. 1,013,818; Jan. 2; Sp. p. 1585; Gaz. vol. 174; p. 253.
Roche, Edward, Washington, D. C. Oil. No. 1,036,339; Aug. 20; Gaz. vol. 181; p. 728.
Roche, James, assignor to Eagle Lock Co., Terryville, Conn. Permutation-lock. No. 1,025,538; May 7; Sp. p. 970; Gaz. vol. 178; p. 150.
Roche, John L., assignor of one-fourth to L. W. Felt, Chicago, Ill. Means for maintaining equilibrium of airships and the like. No. 1,016,363; Feb. 6; Sp. p. 277; Gaz. vol. 175; p. 44.
Rochester Stamping Company. (See Swan, Alfred H. S., assignor.)
Rocic, Ivan, Hoboken, N. J. Caster-wheel. No. 1,024,227; Apr. 23; Sp. p. 5305; Gaz. vol. 177; p. 929.
Rock Island Plow Company. (See Johnson, William E., assignor.)
Rock Island Plow Company. (See Johnson, William H., assignor.)
Rock Island Plow Company. (See Nesvant, Claude H., assignor.)
Rock Island Plow Company. (See Tedell, John, assignor.)
Rock, T. J. (See Tallman, Joseph H., assignor.)
Rocke, John, Meadows, Ill. Gearing. No. 1,041,352; Oct. 15; Gaz. vol. 183; p. 634.
Rockey, Walter S., and H. Eldridge, New York, N. Y., assignors to Metallurgical Research Company. Manufacturing and refining copper alloys. No. 1,017,629; Feb. 13; Sp. p. 3049; Gaz. vol. 175; p. 514.
Rockey, Walter S., and H. Eldridge, New York, N. Y., assignors to Metallurgical Research Company. Fusing and purifying copper. No. 1,018,681; Feb. 27; Sp. p. 5456; Gaz. vol. 175; p. 946.
Rockey, Walter S., and H. Eldridge, New York, N. Y., assignors to Metallurgical Research Company. Remelting and refining old or scrap copper alloy. No. 1,019,524; Mar. 5; Sp. p. 1188; Gaz. vol. 176; p. 176.
Rockey, Walter S., and H. Eldridge, New York, N. Y., assignors to Metallurgical Research Company. Refining copper. No. 1,027,769; May 28; Sp. p. 5842; Gaz. vol. 178; p. 1017.
Rockey, Walter S., and H. Eldridge, New York, N. Y., assignors to Metallurgical Research Company. Refining copper. No. 1,037,538; Sept. 3; Gaz. vol. 182; p. 122.
Rockford Drilling Machine Company. (See Milne, Robert, assignor.)
Rockford Engine Works. (See Zumdahl, Frederick C., assignor.)
Rockstroh, Max, Klein-Sedlitz, near Pirna, Germany. Safety device for platen printing-presses. No. 1,018,005; Feb. 20; Sp. p. 3943; Gaz. vol. 175; p. 682.
Rockwell, Albert F., and C. F. Schmelz, assignors to The New Departure Manufacturing Company, Bristol, Conn. Cushioning device. No. 1,036,340; Aug. 20; Gaz. vol. 181; p. 729.
Rockwell, Byrd C., Malvern, Ark. Truck. No. 1,024,701; Apr. 30; Sp. p. 6386; Gaz. vol. 177; p. 1125.
Rockwell, Byrd C., Malvern, Ark. Door. No 1,028,280; June 4; Sp. p. 474; Gaz. vol. 179; p. 69.
Rockwell, Byrd C., Malvern, Ark. Truck. No. 1,035,471; Aug. 13; Gaz. vol. 181; p. 393.
Rockwell, Byrd C., Malvern, Ark. Door and window closure. No. 1,036,721; Aug. 27; Gaz. vol. 181; p. 890.
Rockwell, Frederick C., Hamilton, Ill. Distributing-valve for bath-tubs. No. 1,037,664; Sept. 3; Gaz. vol. 182; p. 164.
Rockwell, Mary, Blue Rapids, Kans. Removable buggy-seat. No. 1,042,603; Oct. 29; Gaz. vol. 183; p. 1121.
Rockwell, Walter S., New York, N. Y. Furnace for annealing, &c. No. 1,037,665; Sept. 3; Gaz. vol. 182; p. 164.
Rockwell, Walter S., Jersey City, N. J., assignor to W. S. Rockwell Company, New York, N. Y. Crucible-furnace. No. 1,042,825; Oct. 29; Gaz. vol. 183; p. 1198.
Rockwood, George I., Worcester, Mass. Apparatus for operating alarms or other devices. No. 1,015,080; Jan. 16; Sp. p. 4423; Gaz. vol. 174; p. 744.
Rockwood, George I., Worcester, Mass. Dry pipe-valve. No. 1,033,471; July 23; Gaz. vol. 180; p. 1020.
Rockwood, George I., Worcester, Mass. Apparatus for operating alarms or other devices. No. 1,033,472; July 23; Gaz. vol. 180; p. 1021.
Rockwood Manufacturing Company. (See Born, Joseph, assignor.)
Rockwood Sprinkler Company of Massachusetts. (See Carlson, Hjalmar G., assignor.)
Rodatt, August C., Cleveland, Ohio. Sash lock or fastener. No. 1,026,051; May 14; Sp. p. 2118; Gaz. vol. 178; p. 350.
Roddy, Isham L., Estes, Tex. Irrigation apparatus. No. 1,014,521; Jan. 9; Sp. p. 3142; Gaz. vol. 174; p. 522.
Rodehaver, Isaac H., East Auburn, assignor of one-half to J. Toman, Sutter Creek, Cal. Gun. No. 1,042,145; Oct. 22; Gaz. vol. 183; p. 936.
Roden, Ephraim H., Chicago, Ill. Wrapper for newspapers, periodicals, and the like. No. 1,019,525; Mar. 5; Sp. p. 1189; Gaz. vol. 176; p. 176.
Roden, Ephraim H., Chicago, Ill. Wrapper or sealing-strip for cans, packages, and the like. No. 1,032,026; July 9; Gaz. vol. 180; p. 449.
Roden, Herman N., Oshkosh, Wis. Drinking-fountain. No. 1,016,851; Feb. 6; Sp. p. 1364; Gaz. vol. 175; p. 210.
Roder, Robert, Mishawaka, Ind., assignor to V. E. Freeman, New York, N. Y. Support for incandescent mantles. No. 1,028,388; June 4; Sp. p. 702; Gaz. vol. 179; p. 107.
Roderick, George F., Medina, N. D. Spark arrester and consumer. No. 1,022,441; Apr. 9; Sp. p. 1457; Gaz. vol. 177; p. 261.
Roderick, George F., Medina, N. D. Spark arrester and consumer. No. 1,045,612; Nov. 26; Gaz. vol. 184; p. 986.
Roderick Lean Manufacturing Company, The. (See Warne, Frederick C., assignor.)
Rodger Ballast Car Company. (See Hart, Harry S., assignor.)
Rodger Ballast Car Company. (See Neikirk, John O., assignor.)
Rodger Ballast Car Company. (See Yost, Winfield H., assignor.)
Rodgers, Clarence F., Conneaut, Ohio. Dental and surgical lamp. No. 1,047,299; Dec. 17; Gaz. vol. 185; p. 592.
Rodgers, Ellsworth P., Hightstown, N. J. Indicator. No. 1,017,806; Feb. 20; Sp. p. 3484; Gaz. vol. 175; p. 613.
Rodgers, Josiah C., assignor of one-third to C. K. Raber and one-third to H. Pierce, Junction City, Kans. Oil and steam burner. No. 1,033,037; July 16; Gaz. vol. 180; p. 835.
Rodgers, Richard P., Spartanburg, S. C. Wire basket. No. 1,037,539; Sept. 3; Gaz. vol. 182; p. 123.
Rodgers, William J., Beeville, Tex. Reversible plow. No. 1,039,808; Oct. 1; Gaz. vol. 183; p. 47.
Rodibaugh, Albert C., Frank, Pa. Razor-stropping device. No. 1,039,445; Sept. 24; Gaz. vol. 182; p. 855.
Rodier, Napoleon. (See Caron, Napoleon, assignor.)
Rödiger, Wilhelm, Dresden-Blasewitz, and C. Muehleisen, Berlin, Germany, assignors to Mengenthaler Linotype Company. Typographical composing-machine. No. 1,041,676; Oct. 15; Gaz. vol. 183; p. 740.
Rodman, Hugh, Pittsburgh, assignor, by mesne assignments, to The Electric Storage Battery Company, Philadelphia, Pa. Manufacturing electrodes. No. 1,013,445; Jan. 2; Sp. p. 779; Gaz. vol. 174; p. 124.
Rodman, Thomas, Sewickley, R. L. Hibbard, Bellevue, and H. A. Carpenter, Sewickley, Pa., assignors to Riter-Conley Manufacturing Company, Jersey City, N. J. Apparatus for charging and discharging gas-retorts. No. 1,021,729; Mar. 26; Sp. p. 5755; Gaz. vol. 176; p. 1034.
Rodock, John C. (See Henderson, James C., assignor.)
Rodrigues, Manuel R., Brooklyn, N. Y. Tool for boring holes. No. 1,029,824; June 18; Sp. p. 3825; Gaz. vol. 179; p. 670.
Rodrigues, Manuel R., New York, N. Y. Protective covering for attachment-plugs. No. 1,040,762; Oct. 8; Gaz. vol. 183; p. 403.
Rodriguez y Fonoll, Manuel, New York, N. Y. Fire-escape. No. 1,021,336; Mar. 26; Sp. p. 4945; Gaz. vol. 176; p. 903.
Rodway, John I., and J. Esson, Johannesburg, Transvaal. Means for automatically inflating tires of vehicle-wheels while in motion. No. 1,016,364; Feb. 6; Sp. p. 278; Gaz. vol. 175; p. 44.

Alphabetical list of patentees—Continued.

Roe, Ernest S., assignor to Markham Air Rifle Company, Plymouth, Mich. Metallic bow for archery. No. 1,029,716; June 18; Sp. p. 3587; Gaz. vol. 179; p. 633.
Roe, Howard B., Pittsburgh, Pa. Cover for electric switch-boxes. No. 1,038,963; Sept. 17; Gaz. vol. 182; p. 674.
Roe, Jackson M., assignor of one-half to H. H. Newcomb, Sunnyside, Wash. Railway-tie. No. 1,033,735; July 23; Gaz. vol. 180; p. 1106.
Roe, Jackson M., assignor of one-half to O. W. Crider, Sunnyside, Wash. Portable stove. No. 1,042,273; Oct. 22; Gaz. vol. 183; p. 977.
Roe, Jackson M., assignor of one-half to C. Newcomb, Sunnyside, Wash. Electrically-heated receptacle. No. 1,046,859; Dec. 10; Gaz. vol. 185; p. 408.
Roe, Nathaniel, Patchogue, N. Y. Steering device for motor-boats. No. 1,021,267; Mar. 26; Sp. p. 4803; Gaz. vol. 176; p. 877.
Roebbel, Frederic W., assignor to American Pulverizer Company, St. Louis, Mo. Rock and clay pulverizer. No. 1,015,344; Jan. 23; Sp. p. 4985; Gaz. vol. 174; p. 860.
Roeber, Herman, Milwaukee, Wis. Thill-coupling. No. 1,029,717; June 18; Sp. p. 3589; Gaz. vol. 179; p. 633.
Roebling Construction Company, The. (See Makowski, John F., assignor.)
Roebuck, Alvah C., assignor to The Enterprise Optical Mfg. Company, Chicago, Ill. Reeling mechanism. No. 1,024,866; Apr. 30; Sp. p. 6728; Gaz. vol. 177; p. 1184.
Roebuck, Alvah C., assignor to The Enterprise Optical Mfg. Company, Chicago, Ill. Kinetoscope. No. 1,037,325; Sept. 3; Gaz. vol. 182; p. 49.
Roedding, John H., Berlin, Ontario, Canada. Rubber shoe. No. 1,022,566; Apr. 9; Sp. p. 1714; Gaz. vol. 177; p. 302.
Roeder, John M., Hosensack, Pa. Wire-reel. No. 1,036,008; Aug. 20; Gaz. vol. 181; p. 609.
Roeh, John, assignor to Crystalized Milk Co., Spokane, Wash. Desiccating milk. No. 1,014,609; Jan. 9; Sp. p. 3325; Gaz. vol. 174; p. 551.
Roehr, Louis, assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Machine for welding chain-links. (Reissue.) No. 13,371; Feb. 20; Sp. p. 4793; Gaz. vol. 175; p. 821.
Roehrich, Frank N., Jersey City, N. J., assignor to G. P. Carroll, Bridgeport, Conn. Ammonia stop-valve. No. 1,045,187; Nov. 26; Gaz. vol. 184; p. 834.
Roelker, Hugo B. (See Klein, Mathias J., assignor.)
Roellig, Martin, Halensee, Berlin, Germany. Siren. No. 1,036,722; Aug. 27; Gaz. vol. 181; p. 890.
Roelofs, Arthur, Philadelphia, Pa. Machine for clearing hat-bodies. No. 1,013,315; Jan. 2; Sp. p. 507; Gaz. vol. 174; p. 80.
Roemer, George W., assignor of one-third to C. Priester, Chicago, Ill. Rail-support. No. 1,037,540; Sept. 3; Gaz. vol. 182; p. 123.
Roemer, Rudolf. (See Van Derzee, William, assignor.)
Roempler, Frederick G., Chicago, Ill. Elevator. No. 1,018,781; Feb. 27; Sp. p. 5674; Gaz. vol. 175; p. 981.
Roenitz, Louis T., assignor to Fibre Container Company, Chicago, Ill. Pail and cover therefor. No. 1,028,967; June 11; Sp. p. 1951; Gaz. vol. 179; p. 337.
Roentgen Manufacturing Company. (See Kelly, Edwin W., assignor.)
Roesch, Alfred, assignor to Charles J. Tagliabue Manufacturing Co., New York, N. Y. Means for attaching metallic fixtures to cylindrical elements of glass or like material. No. 1,033,196; July 23; Gaz. vol. 180; p. 929.
Roesch, Reinhard, assignor of one-half to G. G. C. Koenig, San Jose, Cal. Invalid-bed. No. 1,023,396; Apr. 16; Sp. p. 3515; Gaz. vol. 177; p. 626.
Roesen, Oscar, assignor, by mesne assignments, to R. Hoe and Co., New York, N. Y. Offset mechanism for printing-machines. No. 1,041,875; Oct. 22; Gaz. vol. 183; p. 847.
Roesgen, Albert, Geneva, Switzerland. Dirigible head-light. No. 1,036,341; Aug. 20; Gaz. vol. 181; p. 729.
Roessel, Carl A. (See Ippers, John W., assignor.)
Roessle, Charles W. (See Garbarino and Roessle.)
Roessler, Amandus C., Mineola, and W. A. Armington, New York, N. Y., assignors to Bay State Gas Company, (Delaware.) Gas-regulator. No. 1,023,596; Apr. 16; Sp. p. 3919; Gaz. vol. 177; p. 689.
Roessler, Amandus C., Mineola, and W. A. Armington, New York, N. Y., assignors to Delaware Gas Light Company. Gas-lamp. No. 1,043,463; Nov. 5; Gaz. vol. 184; p. 150.
Roessler, Amandus C., Mineola, and W. A. Armington, New York, N. Y., assignors to Delaware Gas Light Company. Combined high and low pressure gas-lamp. No. 1,043,464; Nov. 5; Gaz. vol. 184; p. 151.
Roessler & Hasslacher Chemical Co., The. (See Heuser, Ralph V., assignor.)
Roessler & Hasslacher Chemical Co., The. (See Hoyler, Gardner, and Foersterling, assignors.)
Roessler & Hasslacher Chemical Co. (See Liebknecht, Otto, assignor.)
Roessler & Hasslacher Chemical Co., The. (See Philipp, Herbert, assignor.)
Roessler & Hasslacher Chemical Company, The. (See Brindley, George F., assignor.)
Roessler and Hasslacher Chemical Company. (See Foersterling, Hans, assignor.
Roessler & Hasslacher Chemical Company, The. (See Foregger, Richard von, assignor.)
Roessler & Hasslacher Chemical Company, The. (See Fritsche, Gustav, assignor.)
Roessler & Hasslacher Chemical Company. (See McNitt, Robert J., assignor.)
Roether, Nickolas J., Mineral Point, Wis. Spark-arrester. No. 1,037,326; Sept. 3; Gaz. vol. 182; p. 49.
Roether, Nickolas J., Mineral Point, Wis. Railway safety appliance. No. 1,045,188; Nov. 26; Gaz. vol. 184; p. 834.
Roever, Julius, New York, N. Y. Bed-spring. No. 1,023,876; Apr. 23; Sp. p. 4501; Gaz. vol. 177; p. 806.
Roffy, Joseph T., Chicago, Ill., assignor, by mesne assignments, to Nernst Lamp Company. Advertisement-displaying apparatus. No. 1,026,126; May 14; Sp. p. 2293; Gaz. vol. 178; p. 387.
Rofkar, William C., Port Clinton, Ohio. Fruit grading and sizing machine. No. 1,042,037; Oct. 22; Gaz. vol. 183; p. 901.
Rogati, Agostino, and L. Montilli, New York, N. Y. Dressmaker's measuring apparatus. No. 1,045,440; Nov. 26; Gaz. vol. 184; p. 923.
Rogers Addresser Company. (See Hughes, Davydd C., assignor.)
Rogers, Benjamin M., Albemarle, N. C. Lapping-machine. No. 1,037,327; Sept. 3; Gaz. vol. 182; p. 50.
Rogers, Benjamin P., Millville, N. J. Game apparatus. No. 1,030,330; June 25; Sp. p. 4955; Gaz. vol. 179; p. 883.
Rogers, Burt T., assignor to Victor Sporting Goods Company, Springfield, Mass. Base-ball mitt or glove. No. 1,018,271; Feb. 20; Sp. p. 4506; Gaz. vol. 175; p. 774.
Rogers, Charles C. (See Smith, Walter E., assignor.)
Rogers, Charles R., Waverly, N. Y. Telephone-transmitter. No. 1,018,082; Feb. 20; Sp. p. 4117; Gaz. vol. 175; p. 710.
Rogers, Charles R., assignor to The Brunswick-Balke-Collander Company of New York, New York, N. Y. Refrigerator. No. 1,034,650; Aug. 6; Gaz. vol. 181; p. 81.
Rogers, Charles T., assignor of one-half to J. W. Rogers, Newton, Ala. Flying-machine. No. 1,038,964; Sept. 17; Gaz. vol. 182; p. 674.
Rogers, Chester E., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Sole-leveling machine. No. 1,022,701; Apr. 9; Sp. p. 2025; Gaz. vol. 177; p. 350.
Rogers, Clarence T., New York, N. Y. Door check and spring. No. 1,042,274; Oct. 22; Gaz. vol. 183; p. 977.
Rogers, Edward E., Four Oaks, England. Rearer for puppies and kittens. No. 1,041,167; Oct. 15; Gaz. vol. 183; p. 571.
Rogers, Ernest E., assignor to Foster Engineering Company Limited, London, England. Lock for electric plugs. No. 1,017,110; Feb. 13; Sp. p. 1967; Gaz. vol. 175; p. 338.
Rogers, Frank R. (See Vallone and Rogers.)
Rogers, Frank R., assignor to Barcalo Manufacturing Company, Buffalo, N. Y. Machine for bending and twisting bars. No. 1,029,946; June 18; Sp. p. 4101; Gaz. vol. 179; p. 712.
Rogers, Frederick A. (See Wheeling and Rogers.)
Rogers, George, Kilmalcolm, Scotland. Container. No. 1,015,638; Jan. 23; Sp. p. 5623; Gaz. vol. 174; p. 962.
Rogers, George A., Chicago, Ill., assignor to F. A. Hardy & Company. Machine for examining and testing the eyes. No. 1,013,316; Jan. 2; Sp. p. 508; Gaz. vol. 174; p. 80.
Rogers, George W. (See Rogers, Wiley, assignor.)
Rogers, Harris, Albany, N. Y. Trousers. No. 1,027,904; May 28; Sp. p. 6206; Gaz. vol. 178; p. 1065.
Rogers, Hervey E., New London, Conn. Attachment for carbureters. No. 1,023,397; Apr. 16; Sp. p. 3516; Gaz. vol. 177; p. 626.
Rogers, Homer S., East Orange, N. J., assignor to Kinetoplane Display Company, New York, N. Y. Picture-display machine. No. 1,030,611; June 25; Sp. p. 5713; Gaz. vol. 179; p. 985.
Rogers, James B., assignor of one-half to C. E. Wescott, Chicago, Ill. Horn or whistle. No. 1,036,342; Aug. 20; Gaz. vol. 181; p. 729.
Rogers, James B., Ashland, Ky., assignor of one-half to P. Meehan, Lowellville, Ohio. Evesight-plate for twyers. No. 1,045,189; Nov. 26; Gaz. vol. 184; p. 835.
Rogers, James E., Beloit, Kans. Electric alarm attachment for journal-bearings. No. 1,041,514; Oct. 15; Gaz. vol. 183; p. 687.
Rogers, John R., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Line-casting machine. No. 1,014,725; Jan. 16; Sp. p. 3642; Gaz. vol. 174; p. 623.
Rogers, John R., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Line-casting machine. No. 1,028,137; June 4; Sp. p. 128; Gaz. vol. 179; p. 19.
Rogers, John R., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Mold for linotype-machines. No. 1,046,649; Dec. 10; Gaz. vol. 185; p. 335.
Rogers, John R., New York, N. Y., assignor to Mergenthaler Linotype Company. Linotype-machine. (Reissue.) No. 13,489; Nov. 19; Gaz. vol. 184; p. 783.
Rogers, John T., Chicago, Ill. Wagon-brake. No. 1,035,910; Aug. 20; Gaz. vol. 181; p. 579.

Alphabetical list of patentees—Continued.

Rogers, John W. (See Rogers, Charles T., assignor.)
Rogers, Joseph W., Woodbury, N. J. Automatic signaling mechanism. No. 1,041,168; Oct. 15; Gaz. vol. 183; p. 572.
Rogers, Lebbeus H., New York, N. Y., assignor to Case Tunnel & Engineering Company. Tunneling-machine. No. 1,039,809; Oct. 1; Gaz. vol. 183; p. 47.
Rogers, Longinus V. (See Hart, Philip, assignor.)
Rogers, Marshall C., Williams, Cal. Resilient tire. No. 1,018,006; Feb. 20; Sp. p. 3945; Gaz. vol. 175; p. 682.
Rogers, Marshall C., assignor of one-half to G. Ash, Williams, Cal. Collapsible, portable, vermin-proof poultry-house. No. 1,018,007; Feb. 20; Sp. p. 3947; Gaz. vol. 175; p. 683.
Rogers, Mildred M., Katrine, Va. Shield attachment for sleeves. No. 1,037,666; Sept. 3; Gaz. vol. 182; p. 165.
Rogers, Nelson W. (See Hewitt and Rogers.)
Rogers, Pearley B., Lynn, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Punching device. No. 1,023,275; Apr. 16; Sp. p. 3285; Gaz. vol. 177; p. 586.
Rogers, Reamer, assignor of one-half to J. O. Baker, Pavo, Ga. Wire-stretcher. No. 1,032,566; July 16; Gaz. vol. 180; p. 676.
Rogers, Robert J., Callaway, Minn. Safety tug-holder. No. 1,049,270; Dec. 31; Gaz. vol. 185; p. 1335.
Rogers, Robert W. (See Kaye and Rogers.)
Rogers, Robert W., Worcester, Mass. Water-heater. No 1,017,321; Feb. 13; Sp. p. 2423; Gaz. vol. 175; p. 411.
Rogers-Schmitt Wire & Iron Co. (See Schmitt, Eugene E., assignor.)
Rogers, Square S., Roxbury, Mass. Sliding-jaw wrench. No. 1,034,303; July 30; Gaz. vol. 180; p. 1331.
Rogers, Thurman S., Jackson, Mich. Auxiliary heel-lining. No. 1,023,877; Apr. 23; Sp. p. 4503; Gaz. vol. 177; p. 806.
Rogers, Ulysses J. (See Perew and Rogers.)
Rogers, Walter K., Kansas City, Mo. Lens-grinding machine. No. 1,037,992; Sept. 10; Gaz. vol. 182; p. 308.
Rogers, Wiley, Fort Payne, Ala., assignor of one-half to G. W. Rogers, Mello, Ga. Wheel. No. 1,043,144; Nov. 5; Gaz. vol. 184; p. 35.
Rogers, William A., Boicourt, Kans. End-gate. No. 1,013,446; Jan. 2; Sp. p. 780; Gaz. vol. 174; p. 125.
Rogers, Wilson, Martha, W. Va. Ladder-base. No. 1,016,177; Jan. 30; Sp. p. 6747; Gaz. vol. 174; p. 1173.
Rogers, Winfield S., Bantam, Conn. Puzzle-padlock. No. 1,013,566; Jan. 2; Sp. p. 1030; Gaz. vol. 174; p. 165.
Rogerson, Albert C., assignor of one-half to A. F. Halstead, Manchester, England. Riveting-tool. No. 1,019,088; Mar. 5; Sp. p. 180; Gaz. vol. 176; p. 29.
Rogestvensky, Alexis, Moscow, Russia. Flying-machine. No. 1,024,102; Apr. 23; Sp. p. 5007; Gaz. vol. 177; p. 884.
Rogge, Gustave, Detroit, Mich. Faucet. No. 1,035,472; Aug. 13; Gaz. vol. 181; p. 393.
Rogler, Frederick W. (See Reimann, Paul, assignor.)
Rogler, Max, Dusseldorf, Germany. Cask and barrel stand. No. 1,026,127; May 14; Sp. p. 2297; Gaz. vol. 178; p. 387.
Rogness, Helge U., Sioux Falls, S. D. Skylight. No. 1,043,870; Nov. 12; Gaz. vol. 184; p. 320.
Rogowski, Stanislaw, Harmony, R. I. Trolley. No. 1,027,281; May 21; Sp. p. 4855; Gaz. vol. 178; p. 817.
Rohan, Joseph P., Hartford, Conn. Electric-fixture connection. No. 1,016,777; Feb. 6; Sp. p. 1224; Gaz. vol. 175; p. 188.
Rohde, Martin, Jr., Timothy, Wis. Cheese-press. No. 1,045,190; Nov. 26; Gaz. vol. 184; p. 835.
Rohlfing, John M., assignor to American Car and Foundry Company, St. Louis, Mo. Car-bolster. No. 1,021,164; Mar. 26; Sp. p. 4583; Gaz. vol. 176; p. 842.
Rohlfing, John M., assignor to American Car and Foundry Company, St. Louis, Mo. Underframe. No. 1,021,215; Mar. 26; Sp. p. 4685; Gaz. vol. 176; p. 858.
Rohlfing, John M., assignor to American Car and Foundry Company, St. Louis, Mo. Bolster. No. 1,029,086; June 11; Sp. p. 2216; Gaz. vol. 179; p. 379.
Rohlfing, John M., assignor to American Car and Foundry Company, St. Louis, Mo. Bunk or body-bolster. No. 1,029,145; June 11; Sp. p. 2335; Gaz. vol. 179; p. 398.
Rohlfing, John M., assignor to American Car and Foundry Company, St. Louis, Mo. Collapsible chock for log-car bunks. No. 1,029,226; June 11; Sp. p. 2504; Gaz. vol. 179; p. 425.
Rohlfing, John M., assignor to American Car and Foundry Company, St. Louis, Mo. Dumping-car door. No. 1,047,570; Dec. 17; Gaz. vol. 185; p. 688.
Rohmer, Gabriel E., Woodside, assignor of three-fourths to J. F. Booraem, New York, N. Y. Lead-packed anchor-bolt. (Reissue.) No. 13,496; Dec. 10; Gaz. vol. 185; p. 506.
Rohr, Marshall J., assignor of one-fourth to E. H. Bogley and one-fourth to J. W. Bogley, Washington, D. C. Antiskidding device for vehicles. No. 1,026,224; May 14; Sp. p. 2508; Gaz. vol. 178; p. 420.
Rohr, Moritz von, assignor to The Firm of C. Zeiss, Jena, Germany. Telescope-spectacle glass. No. 1,028,281; June 4; Sp. p. 476; Gaz. vol. 179; p. 69.
Rohr, Moritz von, assignor to Firm of C. Zeiss, Jena, Germany. Spectacle-glass. No. 1,030,128; June 18; Sp. p. 4472; Gaz. vol. 179; p. 773.
Rohrbacher, Edward J., Portland, Oreg. Lubricating-gun. No. 1,029,718; June 18; Sp. p. 3590; Gaz. vol. 179; p. 634.
Rohrbacher, Edward J., assignor of one-half to F. Mortimer, Portland, Oreg. Automatic hose and tire connector. No. 1,034,511; Aug. 6; Gaz. vol. 181; p. 37.
Rohrer, Ralph A., Altoona, Pa. Exercising device. No. 1,014,774; Jan. 16; Sp. p. 3753; Gaz. vol. 174; p. 638.
Roitzheim, Carl, Cologne, Germany. Heater for zinc-reducing furnaces. No. 1,038,205; Sept. 10; Gaz. vol. 182; p. 376.
Rolando, François. (See Rolando, Paul and F.)
Rolando, Paul and F., Paris, France. Changing-speed-transmission device. No. 1,040,763; Oct. 8; Gaz. vol. 183; p. 403.
Rolfe, Charles A., assignor, by mesne assignments, to F. B. Cook, Chicago, Ill. Electrical-circuit protector. No. 1,036,723; Aug. 27; Gaz. vol. 181; p. 891.
Rolfe, Charles A., Adrian, Mich., assignor, by mesne assignments, to Rolfe Electric Co., Rochester, N. Y. Electrical-circuit protector. No. 1,046,860; Dec. 10; Gaz. vol. 185; p. 408.
Rolfe Electric Co. (See Rolfe, Charles A., assignor.)
Rolfe, Frank J., McCook, Nebr. Train-order-catching device. No. 1,021,745; Mar. 26; Sp. p. 5792; Gaz. vol. 176; p. 1039.
Rolfes, George H., assignor to Handlan-Buck Manufacturing Company, St. Louis, Mo. Signal-lamp. No. 1,043,465; Nov. 5; Gaz. vol. 184; p. 151.
Rolfson, Theodore O., Esplee, Minn. Sod-cutter. No. 1,043,729; Nov. 5; Gaz. vol. 184; p. 241.
Rolland, François, and E. Pilain, Tours, France. Brake mechanism for vehicles. No. 1,022,506; Apr. 9; Sp. p. 1587; Gaz. vol. 177; p. 284.
Rollefson, Carl J., Chippewa Falls, Wis. Drinking apparatus. No. 1,034,837; Aug. 6; Gaz. vol. 181; p. 147.
Roller, Benjamin, Helena, Ark. Lock. No. 1,036,009; Aug. 20; Gaz. vol. 181; p. 610.
Roller, David H., Muncie, Ind. Scooping device. No. 1,016,711; Feb. 6; Sp. p. 1079; Gaz. vol. 175; p. 166.
Roller, Frank W., East Orange, N. J. Electric metering apparatus. No. 1,038,659; Sept. 17; Gaz. vol. 182; p. 568.
Roller, Nannie, St. Louis, Mo. Stovepipe-anchor. No. 1,031,378; July 2; Gaz. vol. 180; p. 185.
Roller-Smith Company. (See Badeau, Charles C., assignor.)
Roller-Smith Company. (See Shire and Bean, assignors.)
Rollin, Charles, Newcastle-upon-Tyne, England. Making amorphous anhydrous barium hydroxid. No. 1,015,345; Jan. 23; Sp. p. 4987; Gaz. vol. 174; p. 861.
Rollin, Charles, Newcastle-upon-Tyne, England. Making amorphous anhydrous barium hydroxid. No. 1,017,593; Feb. 13; Sp. p. 2977; Gaz. vol. 175; p. 503.
Rollings, Alex W., and J. H. Sweeney, Montgomery, Ala. Switch-operating mechanism. No. 1,044,916; Nov. 19; Gaz. vol. 184; p. 713.
Rollins, Frank E., Mattoon, Wis. Can-opener. No. 1,027,905; May 28; Sp. p. 6207; Gaz. vol. 178; p. 1065.
Rollins, George L., Bridgewater, assignor to W. H. McElwain Company, Boston, Mass. Reinforced insole. No. 1,026,225; May 14; Sp. p. 2510; Gaz. vol. 178; p. 420.
Rollins, George L., Bridgewater, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for butting welts. No. 1,030,612; June 25; Sp. p. 5715; Gaz. vol. 179; p. 985.
Rollins, George L., Bridgewater, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Welt-butting machine. No. 1,030,613; June 25; Sp. p. 5719; Gaz. vol. 179; p. 986.
Rollins, W. C., *et al.* (See Kilpatrick, Robert L., assignor.)
Rolston, Walter F., assignor to Burson Manufacturing Company, Rockford, Ill. Straight-knitting machine. No. 1,016,232; Jan. 30; Sp. p. 6852; Gaz. vol. 174; p. 1191.
Rolston, Walter F., assignor to Burson Manufacturing Company, Rockford, Ill. Knitting-machine. No. 1,016,233; Jan. 30; Sp. p. 6854; Gaz. vol. 174; p. 1191.
Rom, Joseph F. (See Stampahar and Rom.)
Romano, Ralph, Brooklyn, N. Y. Hair-clipper. No. 1,024,364; Apr. 23; Sp. p. 5550; Gaz. vol. 177; p. 973.
Romans, George W., Los Angeles, Cal. Carbureter. No. 1,037,993; Sept. 10; Gaz. vol. 182; p. 308.
Romans, John W., assignor of thirty one-hundredths to S. E. Rives and thirty one-hundredths to W. T. Cackley, Denison, Tex. Windmill. No. 1,033,351; July 23; Gaz. vol. 180; p. 982.
Romberger, James M., Pitman, Pa. Combination railway-tie. No. 1,034,512; Aug. 6; Gaz. vol. 181; p. 38.
Rome Metallic Bedstead Company. (See Merritt, Mortimer G., assignor.)
Rome-Turney Radiator Company. (See Stolp, Frank H., assignor.)
Romel, Oscar, trustee. (See Folger and Comstock, assignors.)

Alphabetical list of patentees—Continued.

Römer, Adolf, Stuttgart, Germany. Continuous manufacture by fermentation of beverages containing carbonic acid. No. 1,043,361; Nov. 5; Gaz. vol. 184; p. 113.
Romick, John C., Jr., Traer, Iowa. Valve mechanism. No. 1,045,441; Nov. 26; Gaz. vol. 184; p. 924.
Romme, William S., New York, N. Y., assignor to McCormick-Romme Company, Chicago, Ill. Flying-machine. No. 1,041,876; Oct. 22; Gaz. vol. 183; p. 847.
Romünder, Hermann, Mishawaka, Ind. Trunk. No. 1,015,511; Jan. 23; Sp. p. 5341; Gaz. vol. 174; p. 916.
Romünder, William, Milwaukee, Wis. Joint for leather-stretching frames. No. 1,015,402; Jan.23; Sp. p. 5101; Gaz. vol. 174; p. 879.
Rondeau, David, Letellier, Manitoba, Canada. Flame-extinguisher. No. 1,031,200; July 2; Gaz. vol. 180; p. 125.
Ronell, August L., Fort Dodge, Iowa. Electric program-clock. No. 1,016,852; Feb. 6; Sp. p. 1366; Gaz. vol. 175; p. 211.
Roney, Alexander B., Chicago, Ill. Faucet. No. 1,014,179; Jan. 9; Sp. p. 2412; Gaz. vol. 174; p. 404.
Roney, John H. (See Williams, Jenkin, assignor.)
Roney, John H., Allegheny, Pa. Apparatus for making pipe-couplings. No. 1,017,322; Feb. 13; Sp. p. 2425; Gaz. vol. 175; p. 412.
Roney, Sylvester, Valley Junction, Iowa. Current-motor. No. 1,045,191; Nov. 26; Gaz. vol. 184; p. 836.
Ronfet, Jean P. R., Paris, France. Wire-coupling. No. 1,044,249; Nov. 12; Gaz. vol. 184; p. 452.
Ronnau, Herman, Evergreen Park, assignor of one-half to O. P. Lightfoot, Chicago, Ill. Roofing-tile. No. 1,023,878; Apr. 23; Sp. p. 4504; Gaz. vol. 177; p. 807.
Ronshkowsky, Mendel R., New York, N. Y. Part for wigs and the like. No. 1,042,972; Oct. 29; Gaz. vol. 183; p. 1247.
Ronstrom, Arvid T., Chicago, Ill. Heating device. No. 1,018,445; Feb. 27; Sp. p. 4898; Gaz. vol. 175; p. 866.
Rontke, Albert, Bridgeport, Conn., assignor to The Singer Manufacturing Company. Guide for sewing-machines. No. 1,023,335; Apr. 16; Sp. p. 3396; Gaz. vol. 177; p. 606.
Roof, Robert M., Muncie, Ind. Friction-clutch. No. 1,015,250; Jan. 16; Sp. p. 4746; Gaz. vol. 174; p. 800.
Rook, Benjamin J. (See Rook, Paul A., assignor.)
Rook, Paul A., assignor of one-half to B. J. Rook, Seattle, Wash. Can-closing appliance. No. 1,037,541; Sept. 3; Gaz. vol. 182; p. 123.
Rook, William H., Jr., Akron, Ohio. Sewer-pipe section for sewer-building. No. 1,037,328; Sept. 3; Gaz. vol. 182; p. 50.
Rook, William H., Jr., Akron, Ohio. Sewer-pipe section for sewer-building. No. 1,037,329; Sept. 3; Gaz. vol. 182; p. 50.
Rookledge, Percival L., and G. W. Gillespie, Cambria, Cal. Vehicle-spring. No. 1,044,692; Nov. 19; Gaz. vol. 184; p. 635.
Roome, William G., Los Angeles, Cal., assignor to The Union Switch and Signal Company, Swissvale, Pa. Railway block system. No. 1,032,345; July 9; Gaz. vol. 180; p. 558.
Rooney, John J., Cleveland, Ohio. Drawer-slide. No. 1,037,542; Sept. 3; Gaz. vol. 182; p. 124.
Rooney, John J., New York, N. Y. Socket for incandescent electric lamps. No. 1,037,994; Sept. 10; Gaz. vol. 182; p. 308.
Rooney, Lawrence R., Hollidaysburg, Pa. Aeroplane. No. 1,028,968; June 11; Sp. p. 1953; Gaz. vol. 179; p. 337.
Roop, William D., Marion, Ind. Receptacle for chewing-gum. No. 1,040,420; Oct. 8; Gaz. vol. 183; p. 282.
Roop, William M. (See Willets, Frederick E., assignor.)
Roos, Emil, Manistee, Mich. Gate for graphophones. No. 1,042,275; Oct. 22; Gaz. vol. 183; p. 978.
Roos, William A., Newark, N. J. Belt-fastener. No. 1,042,604; Oct. 29; Gaz. vol. 183; p. 1121.
Root Dairy Supply Company. (See Rein and Broomall, assignors.)
Root, Frank T., York, Pa., assignor to Defiance Machine Works, Defiance, Ohio. Bending-machine. No. 1,042,276; Oct. 22; Gaz. vol. 183; p. 978.
Root, Percy H., Plymouth, Ohio. Grinding-machine. No. 1,044,575; Nov. 19; Gaz. vol. 184; p. 594.
Root, Peter, Eureka, Cal. Fluid-hydrocarbon burner. No. 1,022,263; Apr. 2; Sp. p. 1075; Gaz. vol. 177; p. 171.
Root, Sidney L. (See Kahn, Nathaniel, assignor.)
Root, Wayland L., Spokane, Wash. Stall. No. 1,013,447; Jan. 2; Sp. p. 782; Gaz. vol. 174; p. 125.
Rooth, Ole E. (See Iverson and Rooth.)
Roots, James P. (See Johnson, George S., assignor.)
Roovers, Alfred W., Brooklyn, N. Y. Die-press. No. 1,016,292; Feb. 6; Sp. p. 125; Gaz. vol. 175; p. 20.
Roper, Charles F., assignor to C. F. Roper & Company, Hopedale, Mass. Speedometer for vessels. No. 1,048,212; Dec. 24; Gaz. vol. 185; p. 934.
Roper & Company, C. F. (See Draper, Clare H., assignor.)
Roper & Company, C. F. (See Roper, Charles F., assignor.)
Roper, William, Philadelphia, Pa. Vehicle-spring. No. 1,049,001; Dec. 31; Gaz. vol. 185; p. 1244.
Roper, William, assignor of one-fourth to T. F. Oechsle, Philadelphia, Pa., one fourth to M. J. McLeod, and one-fourth to T. Conway, Detroit, Mich. Vehicle-spring. No. 1,031,028; July 2; Gaz. vol. 180; p. 63.
Ropp, Jacob, San Dimas, assignor to Ropp Manufacturing Company, Glendora, Cal. Combination-cultivator. No. 1,019,738; Mar. 5; Sp. p. 1579; Gaz. vol. 176; p. 246.
Ropp, Jacob, San Dimas, assignor to Ropp Manufacturing Company, Glendora, Cal. Combination-cultivator. No. 1,019,739; Mar. 5; Sp. p. 1581; Gaz. vol. 176; p. 246.
Ropp, Jacob, San Dimas, assignor to Ropp Manufacturing Company, Glendora, Cal. Irrigating-machine. No. 1,019,740; Mar. 5; Sp. p. 1583; Gaz. vol. 176; p. 246.
Ropp Manufacturing Company. (See Ropp, Jacob, assignor.)
Ropp, Milton P. (See English, Peter, assignor.)
Roppeneker, George L., and A. L. Scott, Franklin, Pa. Porch flower-bracket. No. 1,017,594; Feb. 13; Sp. p. 2979; Gaz. vol. 175; p. 503.
Rorabeck, Claude, Newark, N. J. Gas-producer. No. 1,014,522; Jan. 9; Sp. p. 3143; Gaz. vol. 174; p. 523.
Roren, Albert. (See Long, John R., assignor.)
Rorig, Henry, assignor to Reed Manufacturing Company, Erie, Pa. Face for vise-jaws. No. 1,048,100; Dec. 24; Gaz. vol. 185; p. 897.
Rosa, Charles, Chicago, Ill. Coffee-urn. No. 1,014,610; Jan. 9; Sp. p. 3328; Gaz. vol. 174; p. 552.
Rosa, Romano, Louisville, Ky. Wall-cleaner. No. 1,044,423; Nov. 12; Gaz. vol. 184; p. 511.
Rosbory, Frank, Chicago, Ill. Airship or the like. No. 1,025,539; May 7; Sp. p. 972; Gaz. vol. 178; p. 151.
Rosche, Joseph W., Minneapolis, Minn. Fluid-clutch. No. 1,041,169; Oct. 15; Gaz. vol. 183; p. 572.
Rose, Benjamin. (See Friedman, Lieberman, and Rose.)
Rose, Bennett P., Henderson, N. C. Displaying apparatus for show windows and cases. No. 1,017,470; Feb. 13; Sp. p. 2750; Gaz. vol. 175; p. 463.
Rose, Clarence, Chamberlain, S. D. Horseshoe. No. 1,035,051; Aug. 6; Gaz. vol. 181; p. 216.
Rose, Cyrus C., Walthill, Nebr. Horse-collar throat. No. 1,013,688; Jan. 2; Sp. p. 1339; Gaz. vol. 174; p. 207.
Rose, Edward, Mamaroneck, N. Y., assignor to Norwalk Lock Company, South Norwalk, Conn. Rim night-latch. No. 1,040,764; Oct. 8; Gaz. vol. 183; p. 403.
Rose, Edward E. (See Hadaway and Rose.)
Rose, Edward E., Swissvale, Pa., assignor to Westinghouse Electric and Manufacturing Company. Cut-out for electric heating devices. No. 1,039,810; Oct. 1; Gaz. vol. 183; p. 48.
Rose, Edwin G., Washington, D. C. Land-marker. No. 1,029,635; June 18; Sp. p. 3388; Gaz. vol. 179; p. 604.
Rose, Emanuel P., Gilroy, Cal. Self-cleaning watering or feed trough. No. 1,037,054; Aug. 27; Gaz. vol. 181; p. 1002.
Rose, Emanuel S. (See Jackson, Thaddeus A., assignor.)
Rose, Frank B. (See Pate and Rose.)
Rose, Frank L., New York, N. Y. Knockdown megaphone. No. 1,044,917; Nov. 19; Gaz. vol. 184; p. 713.
Rose, Frederick, Liverpool, England. Tire of vehicle-wheels. No. 1,038,441; Sept. 10; Gaz. vol. 182; p. 460.
Rose, Gaston, Paris, France. Heating apparatus. No. 1,016,778; Feb. 6; Sp. p. 1225; Gaz. vol. 175; p. 189.
Rose, George D., Manchester, England. Manufacture of resilient tires. No. 1,016,096; Jan. 30; Sp. p. 6607; Gaz. vol. 174; p. 1148.
Rose, George D., Manchester, England. Building up a resilient tread or tire. No. 1,040,765; Oct. 8; Gaz. vol. 183; p. 404.
Rose, Harry B., Johnstown, Pa. Reversing-valve. No. 1,045,749; Nov. 26; Gaz. vol. 184; p. 1033.
Rose, Henry, Gainsborough, England, assignor to R. H. Wright, Durham, N. C. Packaging-machine. No. 1,025,882; May 7; Sp. p. 1725; Gaz. vol. 178; p. 267.
Rose, Hiram T., Jr. (See McQuiston, William G., assignor.)
Rose, Isaac A. (See O'Brien, John J., assignor.)
Rose, John. (See Gibbs, Isaac A., assignor.)
Rose, John A. (See Lauzon and Rose.)
Rose, John D., Berkeley, Cal. Burette. No. 1,013,448; Jan. 2; Sp. p. 783; Gaz. vol. 174; p. 125.
Rose, Joseph F. E., and C. Richard, Montreal, Quebec, Canada; said Richard assignor to said Rose. Carfender. No. 1,042,277; Oct. 22; Gaz. vol. 183; p. 979.
Rose, Marshall O., Portland, Oreg. Paper-cutter attachment. No. 1,030,014; June 18; Sp. p. 4233; Gaz. vol. 179; p. 733.
Rose, Max C., Cleveland, Ohio. Wheel. No. 1,035,912; Aug. 20; Gaz. vol. 181; p. 579.
Rose, Max C., Cleveland, Ohio, assignor of twelve and one-fourth one-hundredths to M. M. Kann, twelve and one-fourth one-hundredths to S. Hirsh, Pittsburgh, Pa., six and one-eighth one-hundredths to G. D. Adams, six and one-eighth one-hundredths to F. E. Hall, four and one-twelfth one-hundredths to E. S. Weil, four and one-twelfth one-hundredths to D. Rosenblum, four and one-twelfth one-hundredths to E. R. Bondy, Cleveland, Ohio, twelve and one-fourth one-hundredths to G. H. Kann, and twelve and one-fourth one-hundredths to F. J. W. Bowery, Pittsburgh, Pa. Resilient wheel. No. 1,035,911; Aug. 20; Gaz. vol. 181; p. 579.

Alphabetical list of patentees—Continued.

Rose, Nicholas, New Rochelle, N. Y. Unloading-barge. No. 1,040,421; Oct. 8; Gaz. vol. 183; p. 282.
Rose, Theodore C. (See Smith, Walter L., assignor.)
Rose, William J., *et al.* (See Hall, Frank M., assignor.)
Roseboom, Harrison M., Westford, N. Y. Crate. No. 1,040,580; Oct. 8; Gaz. vol. 183; p. 338.
Rosebrough, Robert W., Portland, Oreg. Angle road-truck. No. 1,032,944; July 16; Gaz. vol. 180; p. 804.
Rosebrough, Robert W., Portland, Oreg. Angle-track. No. 1,032,945; July 16; Gaz. vol. 180; p. 804.
Roseburg, Samuel L. (See Mills, Thomas, assignor.)
Rosedale, Adolph, assignor of one-half to W. Molard, Alexandria, La. Puzzle. No. 1,044,250; Nov. 12; Gaz. vol. 184; p. 452.
Roseland, Carl A., Rockford, Ill. Dough mixer or kneader. No. 1,042,278; Oct. 22; Gaz. vol. 183; p. 979.
Roseman, Samuel G., Point Chevalier, Auckland, New Zealand. Brush-making machinery. No. 1,045,325; Nov. 26; Gaz. vol. 184; p. 882.
Rosemeyer, Josef. (See Hanisch and Rosemeyer.)
Rosen-Baum, Eugene R., New York, N. Y. Apparatus for welding metals. No. 1,032,431; July 16; Gaz. vol. 180; p. 631.
Rosen, Simon L., Newport, R. I., assignor of one-fourth to J. S. Martin and one-fourth to H. Ostroff, Peabody, Mass. Heel and sole nail. No. 1,042,279; Oct. 22; Gaz. vol. 183; p. 979.
Rosen, Sixten A., *et al.* (See Osterholm, Theodore O., assignor.)
Rosenau, Walter W., Germania, Iowa. Loader. No. 1,015,081; Jan. 16; Sp. p. 4425; Gaz. vol. 174; p. 744.
Rosenbaum, Louis, New York, N. Y. Sad-iron. No. 1,044,820; Nov. 19; Gaz. vol. 184; p. 680.
Rosenbaum, William R. (See Hays and Rosenbaum.)
Rosenberg, Benjamin, New York, N. Y. Shoe-heel. No. 1,049,271; Dec. 31; Gaz. vol. 185; p. 1335.
Rosenberg, Edward, Regents Park, London, England, assignor to Standard Varnish Works, New York, N. Y. Varnish-drying holder for heddles. No. 1,027,770; May 28; Sp. p. 5842; Gaz. vol. 178; p. 1017.
Rosenberg, Heyman, New York, N. Y. Damper. No. 1,013,819; Jan. 2; Sp. p. 1587; Gaz. vol. 174; p. 253.
Rosenberger, Arthur, assignor to A. Horowitz, Berlin, Germany. Apparatus for producing vegetable extracts. No. 1,028,282; June 4; Sp. p. 477; Gaz. vol. 179; p. 70.
Rosenberger, Frank F., and J. T. Hendricks, Perkasie, Pa. Feed-distributer for fowls. No. 1,031,736; July 9; Gaz. vol. 180; p. 351.
Rosenblum, David, *et al.* (See Rose, Max C., assignor.)
Rosenbluth, Edwin M., Philadelphia, Pa. Acetylene-gas generator. No. 1,025,648; May 7; Sp. p. 1212; Gaz. vol. 178; p. 186.
Rosenbluth, Edwin M., Philadelphia, Pa. Automobile license-tag bracket. No. 1,037,183; Aug. 27; Gaz. vol. 181; p. 1044.
Rosenbluth, Isidor, *et al.* (See Forst, Moritz, assignor.)
Rosenbrook, August C., Wall, S. D. Car-seal. No. 1,018,682; Feb. 27; Sp. p. 5458; Gaz. vol. 175; p. 946.
Rosenburg, Harry, *et al.* (See Lipson, Samuel, assignor.)
Rosenburg, Jacob, *et al.* (See Lipson, Samuel, assignor.)
Rosenbusch, Gilbert. (See Rhodin, John G. A., assignor.)
Rosenfeld & Co., E. (See Lion, Albert, assignor.)
Rosenfeld, Irvin, New York, N. Y. Inkstand. No. 1,016,365; Feb. 6; Sp. p. 280; Gaz. vol. 175; p. 44.
Rosenfeld, Louis, I. C. Rosenthal, and F. Fleischman, New York, N. Y. Cigar-binder-cutting and bunch-maker's table. No. 1,032,506; July 16; Gaz. vol. 180; p. 656.
Rosenfelt, Samuel D., and H. Helmboltz, Chicago, Ill. Furnace-door-operating mechanism. No. 1,031,379; July 2; Gaz. vol. 180; p. 185.
Rosenheim, Arthur, Berlin, Germany. Manufacture of hypophosphoric acid and of its salts. No. 1,042,605; Oct. 29; Gaz. vol. 183; p. 1121.
Rosenheim, Ida S. (See Both, Tonjes A. C., assignor.)
Rosenman, Jacob, New York, N. Y. Cuff-button. No. 1,030,541; June 25; Sp. p. 5458; Gaz. vol. 179; p. 959.
Rosenqvist, Conrad L., Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Vibration-absorber for alternating-current-magnet armatures. No. 1,014,257; Jan. 9; Sp. p. 2600; Gaz. vol. 174; p. 433.
Rosenqvist, Nils, Stockholm, Sweden. Milking-machine. No. 1,014,331; Jan. 9; Sp. p. 2759; Gaz. vol. 174; p. 459.
Rosenson, Aaron. (See Dewald and Rosenson.)
Rosenthal, August, West Allis, Wis. Foldable stacker. No. 1,027,505; May 28; Sp. p. 5310; Gaz. vol. 178; p. 930.
Rosenthal, August, West Allis, Wis. Straw elevator and stacker. No. 1,030,015; June 18; Sp. p. 4234; Gaz. vol. 179; p. 734.
Rosenthal, August, West Allis, Wis. Discharge-spout. No. 1,030,016; June 18; Sp. p. 4240; Gaz. vol. 179; p. 734.
Rosenthal, Charles W., Los Angeles, Cal. Savings-bank ledger-card. No. 1,017,915; Feb. 20; Sp. p. 3752; Gaz. vol. 175; p. 652.
Rosenthal, David A., Pittsburgh, Pa. Dental broach and holder. No. 1,035,239; Aug. 13; Gaz. vol. 181; p. 311.
Rosenthal, Harris L. (See Priester, Charles J., assignor.)
Rosenthal, Isaiah C. (See Rosenfeld, Rosenthal, and Fleischman.)
Rosenthal, Joseph, Munich, Germany. X-ray tube. No. 1,028,969; June 11; Sp. p. 1955; Gaz. vol. 179; p. 338.
Rosenthal, Morris, New York, N. Y. Hat-pin-point protector. No. 1,031,201; July 2; Gaz. vol. 180; p. 125.
Rosenthal, Morris G., Mentor, Ohio. Knitted fabric. No. 1,029,636; June 18; Sp. p. 3390; Gaz. vol. 179; p. 604.
Rosenthal, Philip A., New York, N. Y. Tire-plug. No. 1,014,851; Jan. 16; Sp. p. 3934; Gaz. vol. 174; p. 666.
Rosentover, Sarah. (See Harris, Sarah.)
Rosenzweig, Siegfried, Erie, Pa. Valve-gear. No. 1,047,300; Dec. 17; Gaz. vol. 185; p. 593.
Rosewater, Frank, New York, N. Y. Game-counter. No. 1,039,811; Oct. 1; Gaz. vol. 183; p. 48.
Rosewater, Nathan, Cleveland, Ohio. Decaffeinated coffee. No. 1,016,293; Feb. 6; Sp. p. 126; Gaz. vol. 175; p. 20.
Rosewater, Nathan, Cleveland, Ohio. Decaffeinated coffee. No. 1,016,294; Feb. 6; Sp. p. 128; Gaz. vol. 175; p. 20.
Rosier, Charles P., Boulder, Colo. Spring-tire. No. 1,035,052; Aug. 6; Gaz. vol. 181; p. 216.
Rosier, Henri, La Préalle-Herstal, near Liege, Belgium. Automatic pistol. No. 1,023,966; Apr. 23; Sp. p. 4714; Gaz. vol. 177; p. 836.
Rosino, George, E. M. Bevard, and J. Herrig, Fostoria, Ohio. Block-surfacing machine. No. 1,047,707; Dec. 17; Gaz. vol. 185; p. 736.
Roskopf, Philip, Bryan, Ohio. Gambrel. No. 1,030,683; June 25; Sp. p. 5912; Gaz. vol. 179; p. 1010.
Rosofsky, Solomon, Brooklyn, N. Y. Diaphragm horn or alarm. No. 1,025,998; May 14; Sp. p. 1982; Gaz. vol. 178; p. 341.
Ross, Albert. (See Whelan, Henry W., assignor.)
Ross, Alice I., Derry, Pa. Curtain-fixture. No. 1,018,272; Feb. 20; Sp. p. 4508; Gaz. vol. 175; p. 774.
Ross, Caleb O., *et al.* (See Krutsch, Willis W., assignor.)
Ross, Charles, Denver, Colo. Machine for separating metal from ores. No. 1,045,083; Nov. 19; Gaz. vol. 184; p. 770.
Ross, Charles B., Greenleaf, Kans. Vehicle-wheel. No. 1,025,591; May 7; Sp. p. 1090; Gaz. vol. 178; p. 169.
Ross, Charles C., New Kensington, Pa. Glass-tank. No. 1,027,282; May 21; Sp. p. 4855; Gaz. vol. 178; p. 817.
Ross, Charles H. A. F. L., Balnagown Castle, county of Ross, Scotland. Firearm. No. 1,021,706; Mar. 26; Sp. p. 5709; Gaz. vol. 176; p. 1026.
Ross, Charles S. (See Seeley and Ross.)
Ross, David W., Boston, Mass. Pipe-coupling. No. 1,021,485; Mar. 26; Sp. p. 5290; Gaz. vol. 176; p. 954.
Ross, Frederick M. (See Rempe and Ross.)
Ross, George D., Princeton, Kans. Poultry-crate. No. 1,027,771; May 28; Sp. p. 5843; Gaz. vol. 178; p. 1018.
Ross, Harry B., assignor of one-half to H. B. Northrop, Denver, Colo. Variable-speed-transmission gearing. No. 1,028,078; May 28; Sp. p. 6558; Gaz. vol. 178; p. 1119.
Ross, Howard H. (See Wilson and Ross.)
Ross, John G., South Easton, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Channeling-machine. No. 1,029,227; June 11; Sp. p. 2506; Gaz. vol. 179; p. 426.
Ross, John G., South Easton, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Channeling-machine. No. 1,030,614; June 25; Sp. p. 5723; Gaz. vol. 179; p. 986.
Ross, Justin E., Springfield, Mo. Telephone attachment. No. 1,033,619; July 23; Gaz. vol. 180; p. 1069.
Ross, Justus J., Fairmont, W. Va. Brake mechanism. No. 1,042,038; Oct. 22; Gaz. vol. 183; p. 901.
Ross, Lewis P., Standish, N. Y., assignor of one-half to Northern Iron Company. Kiln-cleaner. No. 1,014,258; Jan. 9; Sp. p. 2601; Gaz. vol. 174; p. 434.
Ross Limited. (See Hasselkus, John W., assignor.)
Ross, Louis S., Newtonville, Mass. Compound for time burning railway signal-fusees. No. 1,019,190; Mar. 5; Sp. p. 406; Gaz. vol. 176; p. 64.
Ross, Louis S., Newtonville, Mass. Time-burning railway signal-fusee. No. 1,025,205; May 7; Sp. p. 210; Gaz. vol. 178; p. 36.
Ross, Louis S., Newtonville, Mass. Railway time-burning signal-fusee. No. 1,025,883; May 7; Sp. p. 1735; Gaz. vol. 178; p. 267.
Ross, Marion J., Boston, Mass. Baby-holder attachment for cribs, &c. No. 1,022,507; Apr. 9; Sp. p. 1589; Gaz. vol. 177; p. 284.
Ross, Mathew, Chicago, Ill. Lathe-dog. No. 1,032,705; July 16; Gaz. vol. 180; p. 726.
Ross, Oscar A., Chicago, Ill., assignor, by mesne assignments, to General Electric Company. Electric-arc lamp. No. 1,032,946; July 16; Gaz. vol. 180; p. 804.
Ross, Robert H. (See Logan, William R., assignor.)
Ross, Samuel J., Moulton, Idaho. Hand-baggage. No. 1,041,170; Oct. 15; Gaz. vol. 183; p. 573.
Ross, Scott C., *et al.*, executors. (See Alberger, Louis R.)
Ross, Thomas W., St. Louis, Mo. Dental post-extractor. No. 1,021,893; Apr. 2; Sp. p. 305; Gaz. vol. 177; p. 50.
Ross, Thomas W., St. Louis, Mo. Dental post-extractor. No. 1,035,744; Aug. 13; Gaz. vol. 181; p. 483.
Ross, Vernon. (See Rhoads and Ross.)
Ross, Vernon, Kansas City, Mo. Store-front construction. No. 1,024,420; Apr. 23; Sp. p. 5695; Gaz. vol. 177; p. 991.

Alphabetical list of patentees—Continued.

Ross, William, Woodstock, N. B., Canada. Match-box. No. 1,043,628; Nov. 5; Gaz. vol. 184; p. 207.
Ross, William E., Duquoin, Ill. Harrow. No. 1,018,928; Feb. 27; Sp. p. 5971; Gaz. vol. 175; p. 1029.
Ross, William E., Duquoin, Ill. Harrow. No. 1,033,620; July 23; Gaz. vol. 180; p. 1069.
Ross, William E., and L. C. Jensen, Fromberg, Mont. Closet-seat. No. 1,015,512; Jan. 23; Sp. p. 5344; Gaz. vol. 174; p. 917.
Ross, William J., Silverton, Colo. Bed. No. 1,037,995; Sept. 10; Gaz. vol. 182; p. 308.
Ross, William M., Jacksonville, Fla. Grate-bar. No. 1,033,736; July 23; Gaz. vol. 180; p. 1106.
Ross, William S., assignor of one-half to H. E. Sheaf, Piqua, Ohio. Foot-guard for elevators. No. 1,022,972; Apr. 9; Sp. p. 2609; Gaz. vol. 177; p. 443.
Rosse, Maria, Chicago, Ill. Invalid-carrier. No. 1,035,642; Aug. 13; Gaz. vol. 181; p. 450.
Rosser, Levin V., Tuscaloosa, Ala. Poison-distributing apparatus. No. 1,021,707; Mar. 26; Sp. p. 5712; Gaz. vol. 176; p. 1027.
Rossetter, James R., Knoxville, Tenn. Plow. No. 1,032,298; July 9; Gaz. vol. 180; p. 542.
Rossi, Auguste J., Niagara Falls, assignor to The Titanium Alloy Manufacturing Company, New York, N. Y. Producing steel metals. No. 1,017,807; Feb. 20; Sp. p. 3485; Gaz. vol. 175; p. 613.
Rossi, Auguste J., Niagara Falls, assignor to The Titanium Alloy Manufacturing Company, New York, N. Y. Compound or alloy of titanium and silicon. No. 1,019,526; Mar. 5; Sp. p. 1191; Gaz. vol. 176; p. 177.
Rossi, Auguste J., Niagara Falls, assignor to The Titanium Alloy Manufacturing Company, New York, N. Y. Producing the alloy of titanium with zinc. No. 1,019,527; Mar. 5; Sp. p. 1193; Gaz. vol. 176; p. 177.
Rossi, Auguste J., Niagara Falls, assignor to The Titanium Alloy Manufacturing Company, New York, N. Y. Producing alloys of titanium with ferrometal. No. 1,019,528; Mar. 5; Sp. p. 1195; Gaz. vol. 176; p. 177.
Rossi, Auguste J., Niagara Falls, assignor to The Titanium Alloy Manufacturing Company, New York, N. Y. Producing the alloy of titanium with lead. No. 1,019,529; Mar. 5; Sp. p. 1197; Gaz. vol. 176; p. 177.
Rossi, Auguste J., Niagara Falls, assignor to The Titanium Alloy Manufacturing Company, New York, N. Y. Producing the alloy of titanium with tin. No. 1,019,530; Mar. 5; Sp. p. 1199; Gaz. vol. 176; p. 178.
Rossi, Auguste J., Niagara Falls, assignor to The Titanium Alloy Manufacturing Company, New York, N. Y. Treating aluminum. No. 1,019,531; Mar. 5; Sp. p. 1201; Gaz. vol. 176; p. 178.
Rossi, Auguste J., Niagara Falls, assignor to The Titanium Alloy Manufacturing Company, New York, N. Y. Zinc and purifying and improving the same. No. 1,020,512; Mar. 19; Sp. p. 3183; Gaz. vol. 176; p. 572.
Rossi, Auguste J., Niagara Falls, assignor to The Titanium Alloy Manufacturing Company, New York, N. Y. Nickel and purifying and improving the same. No. 1,020,513; Mar. 19; Sp. p. 3185; Gaz. vol. 176; p. 572.
Rossi, Auguste J., Niagara Falls, assignor to The Titanium Alloy Manufacturing Company, New York, N. Y. Lead and purifying and improving the same. No. 1,020,514; Mar. 19; Sp. p. 3187; Gaz. vol. 176; p. 572.
Rossi, Auguste J., Niagara Falls, assignor to The Titanium Alloy Manufacturing Company, New York, N. Y. Tin and purifying and improving the same. No. 1,020,515; Mar. 19; Sp. p. 3189; Gaz. vol. 176; p. 572.
Rossi, Auguste J., Niagara Falls, assignor to The Titanium Alloy Manufacturing Company, New York, N. Y. Article composed essentially of titanium and lead and producing the same. No. 1,020,516; Mar. 19; Sp. p. 3191; Gaz. vol. 176; p. 572.
Rossi, Auguste J., Niagara Falls, assignor to The Titanium Alloy Manufacturing Company, New York, N. Y. Producing the binary alloy of titanium and aluminum. No. 1,020,517; Mar. 19; Sp. p. 3193; Gaz. vol. 176; p. 572.
Rossi, Auguste J., Niagara Falls, assignor to The Titanium Alloy Manufacturing Company, New York, N. Y. Producing alloys of manganese and titanium. No. 1,022,595; Apr. 9; Sp. p. 1785; Gaz. vol. 177; p. 313.
Rossi, Auguste J., Niagara Falls, assignor to The Titanium Alloy Manufacturing Company, New York, N. Y. Alloys of the precious metals and increasing hardness of such alloys. No. 1,022,596; Apr. 9; Sp. p. 1786; Gaz. vol. 177; p. 313.
Rossi, Auguste J., Niagara Falls, assignor to The Titanium Alloy Manufacturing Company, New York, N. Y. Producing the binary alloy of titanium and zinc. No. 1,022,597; Apr. 9; Sp. p. 1788; Gaz. vol. 177; p. 313.
Rossi, Auguste J., Niagara Falls, assignor to The Titanium Alloy Manufacturing Company, New York, N. Y. Producing the alloy of titanium with tin. No. 1,022,598; Apr. 9; Sp. p. 1789; Gaz. vol. 177; p. 314.
Rossi, Auguste J., Niagara Falls, assignor to The Titanium Alloy Manufacturing Company, New York, N. Y. Producing the alloy of titanium with copper. No. 1,022,599; Apr. 9; Sp. p. 1790; Gaz. vol. 177; p. 314.
Rossi, Auguste J., Niagara Falls, assignor to The Titanium Alloy Manufacturing Company, New York, N. Y. Alloys of the precious metals and increasing hardness of such alloys. No. 1,022,600; Apr. 9; Sp. p. 1791; Gaz. vol. 177; p. 314.
Rossi, Auguste J., Niagara Falls, assignor to The Titanium Alloy Manufacturing Company, New York, N. Y. Producing an alloy of titanium with lead. No. 1,022,799; Apr. 9; Sp. p. 2243; Gaz. vol. 177; p. 384.
Rossi, Auguste J., Niagara Falls, assignor to The Titanium Alloy Manufacturing Company, New York, N. Y. Alloy of manganese and titanium and producing the same. No. 1,023,331; Apr. 16; Sp. p. 3390; Gaz. vol. 177; p. 605.
Rossi, Auguste J., Niagara Falls, assignor to The Titanium Alloy Manufacturing Company, New York, N. Y. Alloy of the precious metals and increasing hardness of such alloy. No. 1,023,332; Apr. 16; Sp. p. 3391; Gaz. vol. 177; p. 605.
Rossi, Auguste J., Niagara Falls, assignor to The Titanium Alloy Manufacturing Company, New York, N. Y. Alloy of titanium, copper, and silicon. No. 1,023,333; Apr. 16; Sp. p. 3393; Gaz. vol. 177; p. 605.
Rossi, Auguste J., Niagara Falls, assignor to The Titanium Alloy Manufacturing Company, New York, N. Y. Alloy of the precious metals and increasing hardness of such alloy. No. 1,023,334; Apr. 16; Sp. p. 3395; Gaz. vol. 177; p. 606.
Rossi, Auguste J., Niagara Falls, assignor to The Titanium Alloy Manufacturing Company, New York, N. Y. Article composed essentially of titanium and silver and producing the same. No. 1,024,476; Apr. 23; Sp. p. 5821; Gaz. vol. 177; p. 1012.
Rossi, Auguste J., Niagara Falls, assignor to The Titanium Alloy Manufacturing Company, New York, N. Y. Article composed essentially of titanium and silver and producing the same. No. 1,025,426; May 7; Sp. p. 697; Gaz. vol. 178; p. 111.
Rossi, Auguste J., Niagara Falls, assignor to The Titanium Alloy Manufacturing Company, New York, N. Y. Treating steel. No. 1,028,389; June 4; Sp. p. 704; Gaz. vol. 179; p. 107.
Rossi, Auguste J., Niagara Falls, assignor to The Titanium Alloy Manufacturing Company, New York, N. Y. Steel metal. No. 1,029,637; June 18; Sp. p. 3391; Gaz. vol. 179; p. 604.
Rossi, Auguste J., Niagara Falls, assignor to The Titanium Alloy Manufacturing Company, New York, N. Y. Fertilizing vegetable growth. No. 1,032,432; July 16; Gaz. vol. 180; p. 631.
Rossi, Auguste J., and W. F. Meredith, Niagara Falls, assignors to The Titanium Alloy Manufacturing Company, New York, N. Y. Compound or composition of matter and producing same. No. 1,039,672; Sept. 24; Gaz. vol. 182; p. 935.
Rossignol, Samuel K., Atlanta, Ga. Resilient wheel. No. 1,039,594; Sept. 24; Gaz. vol. 182; p. 909.
Rossiter, Ernest, Port Edwards, Wis. Sulfur-burner. No. 1,038,442; Sept. 10; Gaz. vol. 182; p. 460.
Rossiter, Ernest, Port Edwards, Wis. Producing sulfur dioxid. No. 1,039,812; Oct. 1; Gaz. vol. 183; p. 48.
Rossiter, Lindley M., and T. C. Brew, Olathe, Colo. Combined scrubber and mop. No. 1,041,171; Oct. 15; Gaz. vol. 183; p. 573.
Rossiter, William M., Sunbury, Pa. Textile roll. No. 1,026,226; May 14; Sp. p. 2511; Gaz. vol. 178; p. 420.
Rossman, Joseph, Provo, Utah. Alcohol-lamp. No. 1,030,922; July 2; Gaz. vol. 180; p. 24.
Rossmeissl, Frank, assignor of one-half to H. W. Foster, Newark, N. J. Christmas-tree and standard holder. No. 1,028,787; June 4; Sp. p. 1546; Gaz. vol. 179; p. 241.
Rossner, Edward H. (See Emery and Rossner.)
Rössner, Heinrich. (See Schmidt, Rössner, and Balhorn.)
Rostand Manufacturing Company, The. (See Landine, Peter N., assignor.)
Rostar, John. (See Culomer, Frank J., assignor.)
Rostel, Karl, Monessen, Pa. Dry-cleaning device. No. 1,043,730; Nov. 5; Gaz. vol. 184; p. 241.
Rostin, Heliodor P., Tottenham, England. Gas-igniting apparatus. No. 1,042,971; Oct. 29; Gaz. vol. 183; p. 1247.
Rotary Disc Bit Co. (See Litaker, Thomas F., assignor.)
Rotary Ring Spinning Company. (See Hall, Bicknell, assignor.)
Rotary Valve Motor Company. (See Nelson, Emil A., assignor.)
Roth, Adam J. (See Blechschmidt, Arthur F., assignor.)
Roth, Anthony, Jr., New Brunswick, N. J. Horseshoe-calk. No. 1,015,839; Jan. 30; Sp. p. 6046; Gaz. vol. 174; p. 1055.
Roth, Anthony, assignor of one-half to H. Seifried, Yonkers, N. Y. Smoked meat. No. 1,025,925; May 7; Sp. p. 1823; Gaz. vol. 178; p. 281.
Roth, Charles C., Indianapolis, Ind. Starting device for explosion-engines. No. 1,024,103; Apr. 23; Sp. p. 5008; Gaz. vol. 177; p. 885.
Roth, Charles C., Indianapolis, Ind. Compound valve and starter. No. 1,040,766; Oct. 8; Gaz. vol. 183; p. 404.

Alphabetical list of patentees—Continued.

Roth, Charles H., Chicago, Ill., assignor to The Adams & Westlake Company. Pole-changer. No. 1,048,588; Dec. 31; Gaz. vol. 185; p. 1099.
Roth, Charles H., and W. J. Warder, Jr., Chicago, Ill. Variable-speed electric generator. No. 1,039,197; Sept. 24; Gaz. vol. 182; p. 769.
Roth, Edmund, Illfurt, Alsace, Germany. Balloon for airships. No. 1,048,101; Dec. 24; Gaz. vol. 185; p. 897.
Roth, George F., *et al.* (See Kay, Samuel P., assignor.)
Roth, Harris C., Chicago, Ill. Carbureter. No. 1,042,606; Oct. 29; Gaz. vol. 183; p. 1121.
Roth, Harris C., Chicago, Ill. Carbureter. No. 1,045,613; Nov. 26; Gaz. vol. 184; p. 986.
Roth, Hugo, assignor to Amme, Giesecke & Konegen, Aktiengesellschaft, Braunschweig, Brunswick, Germany. Conveying-trough. No. 1,022,332; Apr. 2; Sp. p. 1217; Gaz. vol. 177; p. 194.
Roth, Johann F., Basel, Switzerland. Thread-winding apparatus for spinning and doubling machines. No. 1,030,017; June 18; Sp. p. 4241; Gaz. vol. 179; p. 734.
Roth, Johannes, Ludwigshafen-on-the-Rhine, Germany. Automatic tile-machine. No. 1,015,588; Jan. 23; Sp. p. 5516; Gaz. vol. 174; p. 944.
Roth, Karl, Terre Haute, Ind. Sheet-metal roofing. No. 1,018,782; Feb. 27; Sp. p. 5676; Gaz. vol. 175; p. 981.
Roth, Samuel, New York, assignor to P. Treffers, Brooklyn, N. Y. Submarine rescuing apparatus. No. 1,026,458; May 14; Sp. p. 3022; Gaz. vol. 178; p. 498.
Roth, Solomon, *et al.* (See Cave and Buck, assignors.)
Roth, Sydney R., *et al.* (See Bergman and Clarke, assignors.)
Roth, Walter A., and F. O. Moldenhauer, Chicago, Ill. Wiper for windows and the like. No. 1,041,172; Oct. 15; Gaz. vol. 183; p. 573.
Rothchild, Joseph, New York, and H. S. Conover, Brooklyn, assignors to The Rothchild Pressure Specialties Company, Canton, N. Y. Disk valve. No. 1,014,775; Jan. 16; Sp. p. 3754; Gaz. vol. 174; p. 639.
Rothchild Pressure Specialties Company, The. (See Rothchild and Conover, assignors.)
Rothe, Fritz, Dessau, Germany, assignor to Electrochemische Werke G. m. b. H., Berlin, Germany. Method of and apparatus for producing and utilizing disk-like electric arcs for effecting gas reactions. No. 1,018,990; Feb. 27; Sp. p. 6122; Gaz. vol. 175; p. 1052.
Rothe, Moritz, Deutz, near Cologne, Germany. Hydraulic press. No. 1,024,024; Apr. 23; Sp. p. 4824; Gaz. vol. 177; p. 856.
Rothe, William F., East St. Louis, Ill., and E. E. Culp, St. Louis, Mo. Carbureter. No. 1,022,702; Apr. 9; Sp. p. 2028; Gaz. vol. 177; p. 350.
Rothe, William F., East St. Louis, Ill., and E. E. Culp, St. Louis, Mo. Carbureter. No. 1,022,703; Apr. 9; Sp. p. 2031; Gaz. vol. 177; p. 351.
Rothenberg, Moriz, Berlin, Germany. Apparatus for use in the treatment of fractures of the thigh or upper leg. No. 1,044,424; Nov. 12; Gaz. vol. 184; p. 511.
Rotherham, James A., Revere, Mass. Corn-popping machine. No. 1,026,052; May 14; Sp. p. 2120; Gaz. vol. 178; p. 360.
Rotherham, Kevitt, Coventry, England. Flexible and expansible bracelet. No. 1,028,788; June 4; Sp. p. 1546; Gaz. vol. 179; p. 241.
Rothermel, Curtis J., Philadelphia, Pa. Fabric-roll protector. No. 1,029,947; June 18; Sp. p. 4103; Gaz. vol. 179; p. 712.
Rotheudt, Cornelius L., Walheim, near Aachen, Germany. Gramophone-record. No. 1,046,650; Dec. 10; Gaz. vol. 185; p. 336.
Rothfeld, Max, Philadelphia, Pa. Pianissimo attachment. No. 1,043,145; Nov. 5; Gaz. vol. 184; p. 35.
Röthman, Eugene, assignor of one-half to W. F. Lichtenfeld, Cleveland, Ohio. Self-measuring non-refillable bottle. No. 1,022,877; Apr. 9; Sp. p. 2397; Gaz. vol. 177; p. 410.
Rothrock, Samuel W., New York, N. Y., assignor to Lincoln Architectural Iron Company. Post-cap. No. 1,037,996; Sept. 10; Gaz. vol. 182; p. 309.
Rothschild, Max. (See Hohlmann, Heinrich, Jr., assignor.)
Rothschild, Max, New York, N. Y. Cigar-box-lid holder. No. 1,028,607; June 4; Sp. p. 1178; Gaz. vol. 179; p. 180.
Rothwell, Frederick, Montreal, Quebec, Canada. Track-sanding apparatus. No. 1,033,197; July 23; Gaz. vol. 180; p. 929.
Rothwell, John E., Denver, Colo. Separating device. No. 1,028,789; June 4; Sp. p. 1548; Gaz. vol. 179; p. 241.
Rothwell, Louis S., Brooklyn, N. Y., assignor to American Pin Company, Waterbury, Conn. Flush-valve body. No. 1,014,259; Jan. 9; Sp. p. 2602; Gaz. vol. 174; p. 434.
Rotinoff, Alexander, St. Petersburg, Russia. Well-boring tool. No. 1,049,151; Dec. 31; Gaz. vol. 185; p. 1295.
Rott, Louis E. (See Kilgore, Joseph D., assignor.)
Rottenbacher, Riccardo. (See Buffulini and Rottenbacher.)
Rotter, William A., Chicago, Ill., assignor to Comptograph Company. Ribbon-spool for adding-machines. No. 1,038,660; Sept. 17; Gaz. vol. 182; p. 569.
Rottersmann, Henry, St. Louis, Mo. Gas-lighter. No. 1,046,025; Dec. 3; Gaz. vol. 185; p. 77.
Rottler, Hermenegild, Raymond, Iowa. Waste-plug lifter. No. 1,029,463; June 11; Sp. p. 3033; Gaz. vol. 179; p. 508.
Rottner, Albert A. (See Turner, Harry R., assignor.)
Rotzov, Knud V., Malmö, Sweden. Device for automatically closing cocks and the like. No. 1,031,874; July 9; Gaz. vol. 180; p. 400.
Roubik, Joseph, *et al.* (See Andel, Joseph, assignor.)
Rouchleau, Louis J., Arlington, Cal. Parachute. No. 1,040,241; Oct. 1; Gaz. vol. 183; p. 190.
Rouilliard, Victor A., assignor of one-half to A. L. Audet, Fall River, Mass. Armored tire. No. 1,022,333; Apr. 2; Sp. p. 1219; Gaz. vol. 177; p. 194.
Rounds, Erdix, assignor of one-half to Gunther-Wright Machine Company, Owensboro, Ky. Transmission mechanism. No. 1,015,639; Jan. 23; Sp. p. 5625; Gaz. vol. 174; p. 962.
Rounds, Erdix, assignor of one-half to Gunther-Wright Machine Company, Owensboro, Ky. Gearing. No. 1,041,877; Oct. 22; Gaz. vol. 183; p. 847.
Rounds, Herbert G., Bay City, Mich. Device for packing concrete in molds. No. 1,047,301; Dec. 17; Gaz. vol. 185; p. 593.
Rounds, Myron, Boston, Mass. Pay-as-you-enter car. No. 1,048,887; Dec. 31; Gaz. vol. 185; p. 1204.
Rounds, Washington G., Woodstock, Ontario, Canada. Device for washing prints and the like. No. 1,025,206; May 7; Sp. p. 214; Gaz. vol. 178; p. 36.
Rountree, Henry W., assignor of one-half to H. W. Cottrell, Richmond, Va. Wardrobe-trunk. No. 1,021,070; Mar. 26; Sp. p. 4381; Gaz. vol. 176; p. 813.
Rourke, James A., Savannah, Ga. Ball-joint for pipes. No. 1,041,515; Oct. 15; Gaz. vol. 183; p. 687.
Rourke, Raymond, Rock Glen, N. Y. Pocket attachment. No. 1,018,929; Feb. 27; Sp. p. 5974; Gaz. vol. 175; p. 1029.
Rouse, Frank L., Somerville, Mass. Trick cigar-case. No. 1,023,276; Apr. 16; Sp. p. 3287; Gaz. vol. 177; p. 587.
Rouse, Frank L., Somerville, assignor to Frank L. Rouse Company, Inc., Boston, Mass. Detachable heel for shoes. No. 1,013,615; Jan. 2; Sp. p. 1140; Gaz. vol. 174; p. 181.
Rouse, John W., and A. L. King, Perry, Kans. Tongs. No. 1,041,353; Oct. 15; Gaz. vol. 183; p. 634.
Roush, Francis M., assignor of one-half to R. C. Roush, Canton, Ohio. Fender for cars. No. 1,019,841; Mar. 12; Sp. p. 1775; Gaz. vol. 176; p. 311.
Roush, Franklin W., Dayton, Ohio. Nursing-bottle holder. No. 1,013,221; Jan. 2; Sp. p. 295; Gaz. vol. 174; p. 46.
Roush, Ruben C. (See Roush, Francis M., assignor.)
Rousseau, Onesime, Detroit, Mich. Sash-holder. No. 1,015,082; Jan. 16; Sp. p. 4427; Gaz. vol. 174; p. 744.
Roussel, Germain, Floreffe, Pa. Safety appliance for elevators. No. 1,023,277; Apr. 16; Sp. p. 3289; Gaz. vol. 177; p. 587.
Roussel, Remy A., Lafourche Crossing, La. Stubble-shaver. No. 1,025,161; May 7; Sp. p. 106; Gaz. vol. 178; p. 19.
Roussillon, Philippe, Argenteuil, assignor to Société A. Olier & Cie., Clermont-Ferrand, France. Apparatus for vulcanizing tires. No. 1,039,323; Sept. 24; Gaz. vol. 182; p. 814.
Routery, Dora M., assignor to H. C. Routery, Los Angeles, Cal. Combination lady's and miss's garment. No. 1,036,908; Aug. 27; Gaz. vol. 181; p. 951.
Routery, Herbert C. (See Routery, Dora M., assignor.)
Routhier, Joseph A., Montreal, Quebec, Canada. Paint-vehicle and furniture-polish. No. 1,017,323; Feb. 13; Sp. p. 2428; Gaz. vol. 175; p. 412.
Routt, Edman, Santa Clara, Cal. Automatic safety-switch. No. 1,014,906; Jan. 16; Sp. p. 4049; Gaz. vol. 174; p. 685.
Rovelli, Angelo C., assignor of one-half to M. Strozzi, Philadelphia, Pa. Tire. No. 1,035,473; Aug. 13; Gaz. vol. 181; p. 393.
Row, Reuben R., Jersey City, N. J., assignor to The Griscom-Spencer Company. Pipe-joint and the like. No. 1,020,929; Mar. 19; Sp. p. 4076; Gaz. vol. 176; p. 712.
Rowan, Lloyd, Shawneetown, Ill. Corn-popper. No. 1,021,426; Mar. 26; Sp. p. 5160; Gaz. vol. 176; p. 934.
Rowart, Eugène, Auvelais, near Namur, Belgium. Apparatus for the mechanical manufacture of glass in continuous sheets. No. 1,030,018; June 18; Sp. p. 4244; Gaz. vol. 179; p. 735.
Rowbotham, Walter, Montreal, Quebec, Canada. Explosive-engine. No. 1,014,332; Jan. 9; Sp. p. 2762; Gaz. vol. 174; p. 459.
Rowe, Addison W., Philadelphia, Pa. Tire for automobiles, vehicles, or the like. No. 1,040,581; Oct. 8; Gaz. vol. 183; p. 339.
Rowe, Alvin V., Galesburg, Ill. Gate. No. 1,038,443; Sept. 10; Gaz. vol. 182; p. 461.
Rowe, Arthur F., Springfield, Mass. Tailor's appliance. No. 1,015,083; Jan. 16; Sp. p. 4428; Gaz. vol. 174; p. 745.
Rowe, Chester E., Cortland, N. Y. Keyboard-contact. No. 1,036,724; Aug. 27; Gaz. vol. 181; p. 891.
Rowe, Edwin O., *et al.* (See Ogle, Harley A., assignor.)
Rowe, George H., Berwyn, Ill. Plunger device. No. 1,015,084; Jan. 16; Sp. p. 4430; Gaz. vol. 174; p. 745.

Alphabetical list of patentees—Continued.

Rowe, George H., Berwyn, assignor to The Electromagnetic Tool Company, Chicago, Ill. Power-hammer. No. 1,017,916; Feb. 20; Sp. p. 3754; Gaz. vol. 175; p. 652.
Rowe, George H., Berwyn, assignor to Electro-Magnetic Tool Company, Chicago, Ill. Percussion device. No. 1,024,025; Apr. 23; Sp. p. 4828; Gaz. vol. 177; p. 857.
Rowe, George H., Berwyn, assignor to Electro-Magnetic Tool Company, Chicago, Ill. Electromechanical device. No. 1,024,026; Apr. 23; Sp. p. 4832; Gaz. vol. 177; p. 857.
Rowe, George H., assignor to Electro-Magnetic Tool Company, Chicago, Ill. Electromechanical device. No. 1,024,027; Apr. 23; Sp. p. 4834; Gaz. vol. 177; p. 858.
Rowe, James E., New York, N. Y. Soldering-iron. No. 1,015,713; Jan. 23; Sp. p. 5785; Gaz. vol. 174; p. 986.
Rowe, Levi L., Boston, Mass. Chocolate-urn. No. 1,032,507; July 16; Gaz. vol. 180; p. 656.
Rowe, Levi L., Boston, Mass. Faucet. No. 1,032,706; July 16; Gaz. vol. 180; p. 726.
Rowe, Lewis S., Santa Barbara, Cal. Shoe-pad. No. 1,020,160; Mar. 12; Sp. p. 2461; Gaz. vol. 176; p. 419.
Rowe, Lewis S., Santa Barbara, Cal. Paint-brush. No. 1,033,272; July 23; Gaz. vol. 180; p. 956.
Rowe, Wallace H. (See Rietzel, Adolph F., assignor.)
Rowell, John C., Terra Ceia, Fla. Tree or plant support. No. 1,025,311; May 7; Sp. p. 455; Gaz. vol. 178; p. 72.
Rowen, Thomas C. (See Holbrook, Frank, assignor.)
Rowland & Company. (See Edwards, James B., assignor.)
Rowland, Daniel C., Canton, Ohio. Nut-lock. No. 1,048,347; Dec. 24; Gaz. vol. 185; p. 979.
Rowland, David E. (See Miller and Rowland.)
Rowland, Robert, Brooklyn, N. Y. Hat-press. No. 1,043,466; Nov. 5; Gaz. vol. 184; p. 151.
Rowland, Thad H., Oberlin, Ohio. Mausoleum. No. 1,014,096; Jan. 9; Sp. p. 2248; Gaz. vol. 174; p. 376.
Rowlandson, William, Liverpool, England. Machine for washing grain. No. 1,048,888; Dec. 31; Gaz. vol. 185; p. 1205.
Rowledge, Arthur J., assignor to The Wolseley Tool and Motor Car Company, Limited, Birmingham, England. Valve-gear. No. 1,034,513; Aug. 6; Gaz. vol. 181; p. 38.
Rowlett, James R., *et al.* (See Cole, Milton E., assignor.)
Rowlette, Oliver B., Grand Rapids, Mich. Knockdown sectional case. No. 1,026,180; May 14; Sp. p. 2398; Gaz. vol. 178; p. 404.
Rowley, Benjamin J., Twisp, Wash. Mandrel for tinners No. 1,048,348; Dec. 24; Gaz. vol. 185; p. 979.
Rowley, Dora. (See Willard, Charles H., assignor.)
Rowley, Edward, and R. D. Williams, Albia, Iowa. Acetylene-gas generator. No. 1,030,923; July 2; Gaz. vol. 180; p. 24.
Rowley, Harry G. (See Lewis and Stephen, assignors.)
Rowley, Thomas J., and R. M. France, Vandergrift, Pa. Bag-holder. No. 1,015,211; Jan. 16; Sp. p. 4667; Gaz. vol. 174; p. 788.
Rowley, Walter J., and J. G. Albright, Pittsburgh, Pa. Wall-paper-cleaner holder. No. 1,015,210; Jan. 16; Sp. p. 4666; Gaz. vol. 174; p. 788.
Rowntree, Frank L., assignor to The Arrow Electric Company, Hartford, Conn. Pull-socket. No. 1,024,365; Apr. 23; Sp. p. 5551; Gaz. vol. 177; p. 973.
Rowntree, Harold, Chicago, Ill., assignor to National Pneumatic Company. Electric control mechanism for air-brakes. No. 1,014,852; Jan. 16; Sp. p. 3936; Gaz. vol. 174; p. 667.
Rowntree, Harold, Chicago, Ill., assignor, by mesne assignments, to National Pneumatic Company. Door and step operating mechanism. No. 1,014,907; Jan. 16; Sp. p. 4052; Gaz. vol. 174; p. 685.
Rowntree, Harold, assignor to National Pneumatic Company, Chicago, Ill. Acetylene-generator. No. 1,046,651; Dec. 10; Gaz. vol. 185; p. 336.
Rowohlt, George, and O. Gieseke, Jersey City, N. J. Bottle-filling machine. No. 1,025,649; May 7; Sp. p. 1215; Gaz. vol. 178; p. 187.
Rowse, Frank J., Pawtucket, R. I. Coin-controlled locking mechanism. No. 1,043,033; Oct. 29; Gaz. vol. 183; p. 1270.
Rowse, John A., Newquay, assignor to The Dental Manufacturing Company, Limited, London, England. Hypodermic and similar syringe. No. 1,015,276; Jan. 16; Sp. p. 4813; Gaz. vol. 174; p. 810.
Roy, Eli, Lewiston, Me. Cement compound and making the same. No. 1,037,836; Sept. 3; Gaz. vol. 182; p. 219.
Roy, Henry F., Arlington, assignor of one-third to W. P. Craig and one-third to P. G. Craig, Handley, Tex. Corn and cotton planter. No. 1,040,962; Oct. 8; Gaz. vol. 183; p. 467.
Roy, Joseph, Cleveland, Ohio, assignor to American Stove Company, St. Louis, Mo. Gas-burner. No. 1,038,965; Sept. 17; Gaz. vol. 182; p. 675.
Royal Automatic Machine Company. (See Magidson, Frank, assignor.)
Royal Equipment Company. (See Blomstrom, Carl H., assignor.)
Royal, James A., Strathcona, Alberta, Canada. Ballast-injecting apparatus. No. 1,041,878; Oct. 22; Gaz. vol. 183; p. 848.
Royal Phone and Phonogram Company. (See Runge, Walter C., assignor.)
Royal, Roscoe, assignor to Corwin Telephone Manufacturing Company, Chicago, Ill. Telephone-transmitter. No. 1,040,637; Oct. 8; Gaz. vol. 183; p. 361.
Royal Typewriter Company. (See Hess, Edward B., assignor.)
Royal Typewriter Company. (See Utz, Anthony, assignor.)
Royal, William H. (See Rigsby and Royal.)
Royal Worcester Corset Company. (See Lecoutre, Auguste J., assignor.)
Royce, Frederick H., Derby, England. Transmission-gearing. No. 1,023,683; Apr. 16; Sp. p. 4071; Gaz. vol. 177; p. 714.
Royce, Frederick H., Derby, England. Motor road-vehicle. No. 1,024,652; Apr. 30; Sp. p. 6288; Gaz. vol. 177; p. 1108.
Royce, Frederick H., Derby, England. Electric igniter. No. 1,030,432; June 25; Sp. p. 5174; Gaz. vol. 179; p. 920.
Royce, Frederick H., Derby, England. Vehicle-brake. No. 1,046,495; Dec. 10; Gaz. vol. 185; p. 281.
Royce, Howard W., Chicago, Ill., assignor to Semet-Solvay Company, Solvay, N. Y. Controlling device. No. 1,023,879; Apr. 23; Sp. p. 4505; Gaz. vol. 177; p. 807.
Royce, James C., Toronto, Ontario, Canada. Electrical connector. No. 1,021,377; Mar. 26; Sp. p. 5012; Gaz. vol. 176; p. 915.
Royce, Lorenzo D., Oakland, and L. Wallerstein, San Francisco, Cal. Fume-arrester. No. 1,031,089; July 2; Gaz. vol. 180; p. 86.
Royer, Charles E., and A. A. Rickert, Erie, Pa. Fruit and vegetable slicer. No. 1,040,582; Oct. 8; Gaz. vol. 183; p. 339.
Royer, David H., near Hartville, Ohio. Screw-holder for screw-drivers. No. 1,047,992; Dec. 24; Gaz. vol. 185; p. 860.
Royer, Henry C., Terminal Island, Cal. Artificial minnow. No. 1,031,149; July 2; Gaz. vol. 180; p. 107.
Royer, Thomas J. (See Clingwald, Gustaf A., assignor.)
Royle, Frederick, Stockport, England. Manufacture of felt and like hats. No. 1,043,731; Nov. 5; Gaz. vol. 184; p. 241.
Royle, Vernon, Paterson, N. J. Jacquard-card repeater. No. 1,032,707; July 16; Gaz. vol. 180; p. 726.
Royle, Vernon and V. E., Paterson, N. J. Bracket. No. 1,029,228; June 11; Sp. p. 2509; Gaz. vol. 179; p. 426.
Royle, Vernon and V. E., Paterson, N. J. Starter for electric motors. No. 1,032,708; July 16; Gaz. vol. 180; p. 727.
Royle, Vernon E. (See Royle, Vernon and V. E.)
Roystone, William H., Scranton, Pa. Producing toilet cream. No. 1,017,595; Feb. 13; Sp. p. 2981; Gaz. vol. 175; p. 503.
Roystone, William H., Scranton, Pa., assignor to J. Cathcart, Newburgh, N. Y. Closing jars. No. 1,047,302; Dec. 17; Gaz. vol. 185; p. 594.
Roze, Henri, Domaine de Haute-Fontaine, near Les Grandes Côtes, France. Elastic suspension for wheels of cycles and other vehicles. No. 1,019,089; Mar. 5; Sp. p. 181; Gaz. vol. 176; p. 29.
Roze, Henri, Domaine de Haute-Fontaine, France. Elastic suspension for vehicle-wheels. No. 1,031,090; July 2; Gaz. vol. 180; p. 86.
Rozier, Edward A., Sr., assignor to E. L. Rozier, Sparta, Ga. Gin attachment. No. 1,018,273; Feb. 20; Sp. p. 4509; Gaz. vol. 175; p. 775.
Rozier, Ella L. (See Rozier, Edward A., Sr., assignor.)
Rozelle, Marion E., Chambersburg, Pa. Grinding-mill. No. 1,034,034; July 30; Gaz. vol. 180; p. 1239.
Rubber Patents Limited, The. (See Turner and Buxton, assignors.)
Rubeck, Walter L., St. Paul, Nebr. Fence-post. No. 1,023,880; Apr. 23; Sp. p. 4507; Gaz. vol. 177; p. 807.
Rubel, Simon L., assignor to Home Vacuum Cleaner Company, Chicago, Ill. Vacuum-cleaner. No. 1,014,776; Jan. 16; Sp. p. 3757; Gaz. vol. 174; p. 639.
Rübel, Walter, Berlin, Germany. Metallurgical product. No. 1,033,352; July 23; Gaz. vol. 180; p. 982.
Rubens, Reuben, Liverpool, England. Safety-razor. No. 1,021,003; Mar. 26; Sp. p. 4249; Gaz. vol. 176; p. 789.
Rubes, Ernest, Brooklyn, N. Y. Alarm or acoustic apparatus. No. 1,035,745; Aug. 13; Gaz. vol. 181; p. 484.
Rubes, Ernest, Brooklyn, N. Y. Alarm or acoustic apparatus. No. 1,035,746; Aug. 13; Gaz. vol. 181; p. 484.
Rubes, Ernest, Brooklyn, N. Y. Acoustic apparatus. No. 1,049,272; Dec. 31; Gaz. vol. 185; p. 1336.
Rubin, Harry, New York, N. Y. Gas-lamp. No. 1,040,019; Oct. 1; Gaz. vol. 183; p. 116.
Ruble, Jesse L., and J. A. Dumas, Eureka Springs, Ark. Baby-tender. No. 1,032,947; July 16; Gaz. vol. 180; p. 805.
Ruble, Samuel P. (See Johnson, Charles N., assignor.)
Ruch, Alfred, Minden, Iowa. Scale. No. 1,022,264; Apr. 2; Sp. p. 1077; Gaz. vol. 177; p. 172.
Ruch, Karl, Akron, Ohio. Lawn-mower. No. 1,028,063; May 28; Sp. p. 6518; Gaz. vol. 178; p. 1115.
Ruck, Richard M., London, England. Variable-speed mechanism. No. 1,043,629; Nov. 5; Gaz. vol. 184; p. 207.
Ruckstool, Benjamin R., Hendricks, Pa. Concrete outer coffin. No. 1,036,151; Aug. 20; Gaz. vol. 181; p. 662.

Alphabetical list of patentees—Continued.

Ruckstuhl, Charles S., St. Louis, Mo. Thermometer. No. 1,034,735; Aug. 6; Gaz. vol. 181; p. 111.
Rudd, Henry A., Barberton, Ohio, assignor to The Diamond Match Company, Chicago, Ill. Splint-drying means for match-machines. No. 1,044,343; Nov. 12; Gaz. vol. 184; p. 484.
Rude Bros. Mfg. Co., The. (See Funk, Lewis A., assignor.) (Reissue.)
Rude, Lester, Doland, S. D. Velocipede. No. 1,039,813; Oct. 1; Gaz. vol. 183; p. 48.
Rüdenberg, Reinhold, and F. Koehler, Charlottenburg, assignors to Siemens Schuckertwerke G. m. b. H., Berlin, Germany. Valve-gear of apparatus for conveying liquids or gases. No. 1,047,708; Dec. 17; Gaz. vol. 185; p. 736.
Rudgear-Merle & Co. (See Merritt, Carl, assignor.)
Rudolph, Gustave, Brooklyn, N. Y. Safety clothes-line holder. No. 1,046,652; Dec. 10; Gaz. vol. 185; p. 336.
Rudolph, Paul, assignor to Firm of C. Zeiss, Jena, Germany. Quadruple-lens objective. No. 1,021,337; Mar. 26; Sp. p. 4947; Gaz. vol. 176; p. 903.
Rudolph, Raymond H., Elgin, Ill. Automatic leather-stitching machine. No. 1,019,364; Mar. 5; Sp. p. 826; Gaz. vol. 176; p. 124.
Rudolph Wurlitzer Manufacturing Company, The. (See Hope-Jones, Robert, assignor.)
Rudolph Wurlitzer Manufacturing Company, The. (See McCormick and De Kleist, assignors.)
Rudolph Wurlitzer Manufacturing Company, The. (See Wauters, Joseph, assignor.)
Rudolphi, Frank, assignor to American Can Company, New York, N. Y. Double-seaming machine. No. 1,023,039; Apr. 9; Sp. p. 2730; Gaz. vol. 177; p. 466.
Rudolphi, Frank, Chicago, and S. Tevander, Maywood, Ill., assignors to American Can Company, New York, N. Y. Key-opening can. No. 1,022,050; Apr. 2; Sp. p. 637; Gaz. vol. 177; p. 101.
Rudy, Andrew, Sunman, Ind. Permutation-padlock. No. 1,041,516; Oct. 15; Gaz. vol. 183; p. 687.
Rudy, Lawrence M., Shreveport, La. Plumb-rule. No. 1,017,111; Feb. 13; Sp. p. 1968; Gaz. vol. 175; p. 338.
Rue, Joseph L., and C. F. Brown, Coshocton, Ohio. Telephone system. No. 1,019,992; Mar. 12; Sp. p. 2100; Gaz. vol. 176; p. 362.
Ruebel, Ernst, St. Louis, Mo. Wall construction for kilns and the like. No. 1,040,422; Oct. 8; Gaz. vol. 183; p. 282.
Ruebenhagen, Frederick, Gaylord, Minn. Sleigh. No. 1,032,299; July 9; Gaz. vol. 180; p. 542.
Ruecker, Carl A., assignor to H. Weigt, deceased, St. Paul, Minn.; A. B. E. Weigt, administratrix. Saw-filing machine. No. 1,045,442; Nov. 26; Gaz. vol. 184; p. 924.
Rueckert, Ernest F., Providence, R. I. Globe-holder. No. 1,047,709; Dec. 17; Gaz. vol. 185; p. 737.
Ruecking, Frederick H., St. Louis, Mo. Expansion-bolt. No. 1,013,222; Jan. 2; Sp. p. 297; Gaz. vol. 174; p. 47.
Ruegg, Emil, Cotman, assignor of one-half to E. A. Stumpf, Richmond, Va. Incubator and brooder. No. 1,031,150; July 2; Gaz. vol. 180; p. 107.
Ruel, Henry F., Kankakee, E. St. Aubin, Ganeer township, W. H. Dyer and C. B. Sawyer, Kankakee, Ill. Planting device for corn-planters. No. 1,030,331; June 25; Sp. p. 4958; Gaz. vol. 179; p. 884.
Ruetschi, Arnold. (See Loew and Ruetschi.)
Rufe, John J., Doylestown, Pa. Clutch. No. 1,034,514; Aug. 6; Gaz. vol. 181; p. 38.
Ruff, Elmus S. (See Goodman and Ruff.)
Ruff, William, New York, N. Y. Horseshoe. No. 1,016,853; Feb. 6; Sp. p. 1372; Gaz. vol. 175; p. 211.
Ruffier, Gaston, New York, N. Y. Apparatus for heating automobiles. No. 1,041,879; Oct. 22; Gaz. vol. 183; p. 848.
Ruffin, Henry M., Memphis, Tenn. Dough-rounding machine. No. 1,037,797; Sept. 3; Gaz. vol. 182; p. 207.
Ruffin, John A., New York, N. Y., assignor to Hammond Typewriter Company. Shuttle-shield frame for typewriters. No. 1,035,747; Aug. 13; Gaz. vol. 181; p. 485.
Ruffin, John N., New York, N. Y. Caloric engine. No. 1,035,474; Aug. 13; Gaz. vol. 181; p. 394.
Ruffin, Charles A., Louisville, Ohio. Irrigating-catheter. No. 1,045,326; Nov. 26; Gaz. vol. 184; p. 882.
Rugaard, Louis, assignor of one-half to E. A. Bohm, San Bruno, Cal. Stove. No. 1,042,973; Oct. 29; Gaz. vol. 183; p. 1248.
Ruggles, Harry A., St. Joseph, Mich. Bed-spring. No. 1,040,767; Oct. 8; Gaz. vol. 183; p. 404.
Ruggles, Stewart D., Portsmouth, Ohio. Dental instrument. No. 1,033,942; July 30; Gaz. vol. 180; p. 1205.
Rugh, Harry O., Sandwich, assignor to Sandwich Electric Company, Chicago, Ill. Signaling and telephone system. No. 1,016,036; Jan. 30; Sp. p. 6471; Gaz. vol. 174; p. 1126.
Rugh, Harry O., assignor to Sandwich Electric Company, Sandwich, Ill. Signaling system. No. 1,018,375; Feb. 20; Sp. p. 4727; Gaz. vol. 175; p. 809.
Rugh, Harry O., assignor to Sandwich Electric Company, Sandwich, Ill. Signaling system. No. 1,018,376; Feb. 20; Sp. p. 4729; Gaz. vol. 175; p. 810.
Rugh, Harry O., assignor to Sandwich Electric Company, Sandwich, Ill. Signaling system. No. 1,028,790; June 4; Sp. p. 1551; Gaz. vol. 179; p. 242.
Rugh, Harry O., assignor to Sandwich Electric Company, Sandwich, Ill. Signaling system. No. 1,037,330; Sept. 3; Gaz. vol. 182; p. 50.
Rugh, Harry O., assignor to Sandwich Electric Company, Sandwich, Ill. Signaling system. No. 1,042,482; Oct. 29; Gaz. vol. 183; p. 1078.
Rugh, Harry O., and C. S. Rhoads, Jr., assignors to Sandwich Electric Company, Sandwich, Ill. Selective signaling. No. 1,041,354; Oct. 15; Gaz. vol. 183; p. 635.
Rugh, James A. (See Dildine and Rugh.)
Rühling, Waldemar, assignor to H. Malachowiski, Berlin, Germany. Electric-arc lamp. No. 1,042,375; Oct. 22; Gaz. vol. 183; p. 1011.
Ruiz, Thomas, Oxnard, Cal. Bean-separator. No. 1,034,931; Aug. 6; Gaz. vol. 181; p. 177.
Rule, John, Jackson, Cal. Mine signaling device. No. 1,023,040; Apr. 9; Sp. p. 2734; Gaz. vol. 177; p. 467.
Rule, Percy B. (See Hay and Rule.)
Rülke, Kurt, Berlin, Germany. Manufacture of disinfectant substances and products produced thereby. No. 1,020,624; Mar. 19; Sp. p. 3445; Gaz. vol. 176; p. 609.
Rumberg, Sven S., Batavia, Ill. Fan. No. 1,035,240; Aug. 13; Gaz. vol. 181; p. 311.
Rumberg, Sven S., Batavia, and F. C. Harttung, Chicago, Ill. Vaginal syringe. No. 1,022,601; Apr. 9; Sp. p. 1792; Gaz. vol. 177; p. 314.
Rumney, Fred A., Somerville, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Eyeleting-machine. No. 1,030,833; June 25; Sp. p. 6387; Gaz. vol. 179; p. 1065.
Rumold, Christian F., J. P. Faulkner, and J. W. Dinsmore, Berea, Ky. Temperature-alarm. No. 1,048,349; Dec 24; Gaz. vol. 185; p. 979.
Rumore, John. (See D'Ubaldo, Francesco, assignor.)
Rumpf, Charles, Napoleonville, La. System of clarification. No. 1,037,798; Sept. 3; Gaz. vol. 182; p. 207.
Rumpf, Martin H., Paris, France. Embroidering-machine. No. 1,020,663; Mar. 19; Sp. p. 3527; Gaz. vol. 176; p. 622.
Rumsey, Horace S., St. Louis, Mo. Water-closet. No. 1,013,616; Jan. 2; Sp. p. 1141; Gaz. vol. 174; p. 182.
Rumsey, James W., Chicago, Ill., assignor of one-half to A. W. Baker, Oakland, Cal. Car-door. No. 1,027,156; May 21; Sp. p. 4606; Gaz. vol. 178; p. 773.
Rumsey, James W., Chicago, Ill., assignor of one-half to A. W. Baker, Oakland, Cal. Door track and hanger construction. No. 1,031,677; July 2; Gaz. vol. 180; p. 287.
Rumsey, James W., Chicago, Ill., assignor of one-half to A. W. Baker, Oakland, Cal. Door hanger and track construction. No. 1,041,880; Oct. 22; Gaz. vol. 183; p. 849.
Rumsey, James W., Chicago, Ill., assignor of one-half to A. W. Baker, Oakland, Cal. Car-door. No. 1,041,881; Oct. 22; Gaz. vol. 183; p. 849.
Rumsey, Oscar C., Brockton, assignor of one-half to H. K. Perkins, Bridgewater, Mass. Insole-tack-pulling machine. No. 1,021,894; Apr. 2; Sp. p. 306; Gaz. vol. 177; p. 50.
Rund, Gustav O., Christine, N. D. Smut-machine. No. 1,027,906; May 28; Sp. p. 6207; Gaz. vol. 178; p. 1065.
Rundle, Fred A., assignor to Whiting Foundry Equipment Company, Harvey, Ill. Cylindrical drier. No. 1,044,084; Nov. 12; Gaz. vol. 184; p. 395.
Runge, Walter C., Camden, N. J., assignor to Royal Phone and Phonogram Company, Boston, Mass. Apparatus for forming impressions on phonograph-record blanks and like articles. No. 1,018,631; Feb. 27; Sp. p. 5353; Gaz. vol. 175; p. 928.
Rünkel, Friedrich, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Azo dye. No. 1,028,493; June 4; Sp. p. 949; Gaz. vol. 179; p. 143.
Runner, John B., Indianapolis, assignor of three-fifths to E. E. Gunckel and F. L. Hickman, Jay county, Ind. Surfacing-trowel. No. 1,021,557; Mar. 26; Sp. p. 5436; Gaz. vol. 176; p. 979.
Runner, Joseph E., Dugger, Ind. Combination block and tile machine. No. 1,017,917; Feb. 20; Sp. p. 3755; Gaz. vol. 175; p. 653.
Runnion, Alonzo. (See Runnion, Robert and A.)
Runnion, Robert and A., Spencer, W. Va. Burner. No. 1,034,304; July 30; Gaz. vol. 180; p. 1331.
Runyan, Arthur L., Huron, S. D. Wave-engine. No. 1,043,732; Nov. 5; Gaz. vol. 184; p. 241.
Runyan, Arthur L., Huron, S. D. Advertising display mechanism. No. 1,045,750; Nov. 26; Gaz. vol. 184; p. 1034.
Runyan, Clay M., Lakewood, Ohio. Combined printing and addressing machine. No. 1,025,926; May 7; Sp. p. 1824; Gaz. vol. 178; p. 282.
Ruoff, Charles F., *et al.* (See McGill, Charles E., assignor.)
Rupley, George H., Schenectady, N. Y., assignor to General Electric Company. Winding-machine. No. 1,028,390; June 4; Sp. p. 707; Gaz. vol. 179; p. 107.
Rupley, George H., assignor, by mesne assignments, of one-half to F. J. Seabolt, one-fourth to E. C. Hall, deceased, (M. H. Hall, executrix,) Schenectady, and one-fourth to E. F. Pickford, Washington, D. C. Electric clock-winding mechanism. No. 1,023,684; Apr. 16; Sp. p. 4072; Gaz. vol. 177; p. 715.

Alphabetical list of patentees—Continued.

Rupp, Adolph E., Chicago, Ill. Car-door. No. 1,045,327; Nov. 26; Gaz. vol. 184; p. 883.
Rupp, Burton S., Salt Lake City, Utah, assignor to Universal Metallic Tie Company. Metallic railway-tie. No. 1,044,918; Nov. 19; Gaz. vol. 184; p. 714.
Rupp, Burton S., and J. W. Johnson, Salt Lake City, Utah, assignors to Universal Metallic Tie Company. Metallic tie. No. 1,028,791; June 4; Sp. p. 1552; Gaz. vol. 179; p. 242.
Rupp, George H., Baltimore, Md. Flue attachment. No. 1,014,097; Jan. 9; Sp. p. 2250; Gaz. vol. 174; p. 376.
Ruppel, Friedrich, Strassburg, Germany. Apparatus for distributing flat bodies. No. 1,016,779; Feb. 6; Sp. p. 1227; Gaz. vol. 175; p. 189.
Ruppel, Friedrich, Baden, Germany. Flushing water-closet. No. 1,035,241; Aug. 13; Gaz. vol. 181; p. 312.
Ruppel, Wilhelm, assignor to Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany. Producing a remedy for tuberculosis. No. 1,037,997; Sept. 10; Gaz. vol. 182; p. 309.
Ruppert, Jacob, Jr. (See Siegel and Ruppert.)
Ruppert, Wilhelm, Porz-on-the-Rhine, Germany. Lathe accessory. No. 1,033,943; July 30; Gaz. vol. 180; p. 1205.
Rupprecht, Alwin A. (See Saunders, Rupprecht, and Grant.)
Ruprecht, Charles C., Cleveland, Ohio. Purifying electrically-conductive materials. No. 1,016,097; Jan. 30; Sp. p. 6608; Gaz. vol. 174; p. 1148.
Ruprecht, Charles C., Blakely, Ala. Separating and purifying fullers' earth and analogous materials. No. 1,023,104; Apr. 23; Sp. p. 5011; Gaz. vol. 177; p. 885.
Rusby, John M., assignor to The United Gas Improvement Company, Philadelphia, Pa. Manufacture of carbureted water-gas. No. 1,030,332; June 25; Sp. p. 4959; Gaz. vol. 179; p. 884.
Rusby, John M., and O. B. Evans, assignors to The United Gas Improvement Company, Philadelphia, Pa. Distillation of bituminous coal and the like. No. 1,030,333; June 25; Sp. p. 4962; Gaz. vol. 179; p. 885.
Rusby, Joseph H., Nutley, N. J. Breast-drill. No. 1,046,223; Dec. 3; Gaz. vol. 185; p. 147.
Ruschel, Nicholas, and J. F. Bodey, Federal, Pa. Blasting implement. No. 1,036,343; Aug. 20; Gaz. vol. 181; p. 730.
Ruscoe, William G., Stamford, Conn. Ratchet-wrench. No. 1,022,208; Apr. 2; Sp. p. 968; Gaz. vol. 177; p. 155.
Rush, Albert, Columbus, Ohio. Fire-resisting shutter. No. 1,014,611; Jan. 9; Sp. p. 3330; Gaz. vol. 174; p. 552.
Rush, Albert, Columbus, Ohio. Flexible fire-resisting shutter. No. 1,017,808; Feb. 20; Sp. p. 3488; Gaz. vol. 175; p. 613.
Rush, Charles A., San Francisco, Cal. Airship. No. 1,021,338; Mar. 26; Sp. p. 4948; Gaz. vol. 176; p. 904.
Rush, George A., Kansas City, Kans. Oscillating valve. No. 1,026,459; May 14; Sp. p. 3027; Gaz. vol. 178; p. 499.
Rush, Joseph K., Syracuse, N. Y. Ink-eraser. No 1,048,350; Dec. 24; Gaz. vol. 185; p. 980.
Rush, R. H., *et al.* (See Bartley, Charles B., assignor.)
Rush, William M., Greensburg, assignor of one-half to D. M. Smith, Armbrust, Pa. Bond-spring for rail-joints. No. 1,042,483; Oct. 29; Gaz. vol. 183; p. 1078.
Rushing, Clyde M., and A. J. Wheeler, Charleston, Mo. Suction device for corn-shelling machines. No. 1,015,346; Jan. 23; Sp. p. 4989; Gaz. vol. 174; p. 861.
Rushmore, Samuel W., Plainfield, N. J. Electric-lighting system for vehicles. No. 1,016,037; Jan. 30; Sp. p. 6473; Gaz. vol. 174; p. 1126.
Rushton, Thomas H., Grimsby, England. Vehicle-wheel. No. 1,033,944; July 30; Gaz. vol. 180; p. 1205.
Rusiecki, Waclaw, Rakitnaja, Russia. Evaporating apparatus having multiple evaporation. No. 1,021,486; Mar. 26; Sp. p. 5292; Gaz. vol. 176; p. 954.
Rusk, Mary L., New York, N. Y. Water-bottle for infants. No. 1,026,460; May 14; Sp. p. 3029; Gaz. vol. 178; p. 499.
Rusnak, Andrew D., Philadelphia, Pa. Potato-digger. No. 1,017,918; Feb. 20; Sp. p. 3757; Gaz. vol. 175; p. 653.
Russ, Frank H., New York, assignor to R. L. Smith, Brooklyn, N. Y. Folding bath-tub. No. 1,047,449; Dec. 17; Gaz. vol. 185; p. 643.
Russ. John B., Shelton, and H. J. Stuart, Ansonia, assignors to The Robert N. Bassett Company, Derby, Conn. Button tab-end. No. 1,042,146; Oct. 22; Gaz. vol. 183; p. 936.
Russ, John D., Spencer, W. Va. Gun-sight. No. 1,017,234; Feb. 13; Sp. p. 2243; Gaz. vol. 175; p. 381.
Russell Anti-Friction Drill Chuck Company. (See Russell, Ross M., assignor.)
Russell, Arthur L., Hyde Park, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for use in the manufacture of boots and shoes. No. 1,024,599; Apr. 30; Sp. p. 6168; Gaz. vol. 177; p. 1089.
Russell, Arthur L., Hyde Park, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Lasting-machine. No. 1,032,948; July 16; Gaz. vol. 180; p. 805.
Russell, Arthur L., Hyde Park, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for use in the manufacture of boots and shoes. No. 1,033,945; July 30; Gaz. vol. 180; p. 1206.
Russell, Arthur L., Hyde Park, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for use in the manufacture of boots and shoes. No. 1,033,946; July 30; Gaz. vol. 180; p. 1206.
Russell, Arthur L., Hyde Park, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Making boots and shoes. No. 1,033,947; July 30; Gaz. vol. 180; p. 1206.
Russell, Arthur L., Hyde Park, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Wiring device. No. 1,033,948; July 30; Gaz. vol. 180; p. 1207.
Russell, Beulah, Louisville, Tenn. Fruit-gathering device. No. 1,023,881; Apr. 23; Sp. p. 4508; Gaz. vol. 177; p. 807.
Russell, Burton C., Keene, N. H. Gate-hinge. No. 1,032,776; July 16; Gaz. vol. 180; p. 749.
Russell, Calvin, assignor to C. H. Russell, Penn Yan, N. Y. Celery-bleaching apparatus. No. 1,048,589; Dec. 31; Gaz. vol. 185; p. 1099.
Russell, Carrie H. (See Russell, Calvin, assignor.)
Russell, Charles A., Providence, R. I. Vehicle-wheel. No. 1,038,661; Sept. 17; Gaz. vol. 182; p. 569.
Russell, Charles N. (See Ray and Russell.)
Russell, Claude S. J., Watertown, N. Y. Coin and bill carrier. No. 1,028,494; June 4; Sp. p. 950; Gaz. vol. 179; p. 143.
Russell, Clinton W., Detroit, Mich. Railway dump-car. No. 1,028,283; June 4; Sp. p. 479; Gaz. vol. 179; p. 70.
Russell, Clinton W., Detroit, Mich. Logging apparatus. No. 1,034,305; July 30; Gaz. vol. 180; p. 1331.
Russell, Clinton W., Detroit, Mich. Logging apparatus. No. 1,040,423; Oct. 8; Gaz. vol. 183; p. 282.
Russell, Clinton W., Detroit, Mich. Logging-car. No. 1,045,192; Nov. 26; Gaz. vol. 184; p. 836.
Russell, Duncan M., Pictou, Colo. Combined lock and latch. No. 1,037,543; Sept. 3; Gaz. vol. 182; p. 124.
Russell, Edwin L., Cleveland, Ohio. Lubricating-pump. No. 1,037,055; Aug. 27; Gaz. vol. 181; p. 1002.
Russell & Erwin Manufacturing Company. (See Voight, Henry G., assignor.)
Russell & Erwin Manufacturing Company. (See Voight and Hurd, assignors.)
Russell, Frank, Adelaide, South Australia, Australia. Bottle-stopper. No. 1,028,907; June 11; Sp. p. 1825; Gaz. vol. 179; p. 317.
Russell, Frank J., New York, N. Y. Weatherproof electrical receptacle. No. 1,036,010; Aug. 20; Gaz. vol. 181; p. 610.
Russell, Frank N., and E. Clark, Chicago, Ill. Mitering device. No. 1,038,966; Sept. 17; Gaz. vol. 182; p. 675.
Russell, Frederick T., Philadelphia, Pa. Safety attachment for firearms. No. 1,037,544; Sept. 3; Gaz. vol. 182; p. 125.
Russell, Frederick T., Philadelphia, Pa., assignor to A. H. Fox Gun Company. Hand-firearm. No. 1,029,229; June 11; Sp. p. 2509; Gaz. vol. 179; p. 427.
Russell, George, McKeesport, Pa. Can. No. 1,024,702; Apr. 30; Sp. p. 6388; Gaz. vol. 177; p. 1126.
Russell, George, McKeesport, assignor to Pittsburgh Can Company, Pittsburgh, Pa. Coating metal sheets. No. 1,035,242; Aug. 13; Gaz. vol. 181; p. 312.
Russell, Gilbert H. (See Herndon, William T., assignor.)
Russell, Henry H., New York, N. Y., assignor to W. D. Hodson, Janesville, Wis. Apparatus for heating electrical units. No. 1,029,230; June 11; Sp. p. 2512; Gaz. vol. 179; p. 427.
Russell, Herbert A., Grand Ledge, Mich. Dowel-feeding device. No. 1,031,589; July 2; Gaz. vol. 180; p. 256.
Russell, Howard E. (See Miller, Thomas F., assignor.)
Russell, Hugh J., Upland, Cal. Liquid-fuel burner. No. 1,027,070; May 21; Sp. p. 4417; Gaz. vol. 178; p. 747.
Russell, Irving S. (See Ward and Russell.)
Russell, James C., Pittsburgh, Pa. Treating metal articles. No. 1,019,191; Mar. 5; Sp. p. 409; Gaz. vol. 176; p. 65.
Russell, James C., Pittsburgh, Pa. Metallic tie and fastener. No. 1,044,085; Nov. 12; Gaz. vol. 184; p. 396.
Russell, James M., Jonesville, Va. Trigger mechanism. No. 1,022,973; Apr. 9; Sp. p. 2611; Gaz. vol. 177; p. 444.
Russell, Jerome E., Rudd, Iowa. Carbureter. No. 1,044,576; Nov. 19; Gaz. vol. 184; p. 594.
Russell, Jesse K., Marion, Ill. Wagon-cover. No. 1,028,608; June 4; Sp. p. 1180; Gaz. vol. 179; p. 181.
Russell, John S. (See Helderman and Russell.)
Russell, Joseph F., Chicago, Ill. Railway-spike. No. 1,048,590; Dec. 31; Gaz. vol. 185; p. 1100.
Russell, Lillian, New York, N. Y. Dresser-trunk. No. 1,014,853; Jan. 16; Sp. p. 3942; Gaz. vol. 174; p. 667.
Russell, M. C. (See Schanck, Ephraim L., assignor.)
Russell Manufacturing Co., The. (See Frissell, Frank H., assignor.)
Russell Manufacturing Company, The. (See Fisher, William C., assignor.)
Russell, Nelson J. (See Johnson and Russell.)

Alphabetical list of patentees—Continued.

Russell, Ross M., Binghamton, assignor to Russell Anti-Friction Drill Chuck Company, Elmira, N. Y. Drill-chuck. No. 1,018,008; Feb. 20; Sp. p. 3949; Gaz. vol. 175; p. 683.
Russell, Sidney S., Memphis, Tenn. Air-deflector. No. 1,014,523; Jan. 9; Sp. p. 3146; Gaz. vol. 174; p. 523.
Russell, Thomas H., Clacton-on-Sea, England. Can-opener. No. 1,021,801; Apr. 2; Sp. p. 99; Gaz. vol. 177; p. 19.
Russell, Webber S., Chicago, Ill. Internal-combustion engine. No. 1,043,254; Nov. 5; Gaz. vol. 184; p. 73.
Russell, Whitman, Greenfield, Mass. Tap-wrench. No. 1,038,967; Sept. 17; Gaz. vol. 182; p. 675.
Russell, William A., Waterbury, Conn. Air-moistening device for heating apparatus. No. 1,019,842; Mar. 12; Sp. p. 1777; Gaz. vol. 176; p. 312.
Russell, William A., Yonkers, N. Y. Automatic air-moistening device. No. 1,019,843; Mar. 12; Sp. p. 1782; Gaz. vol. 176; p. 312.
Russell, William H., Arcadia, Ind. Corn picking and husking machine. No. 1,018,346; Feb. 20; Sp. p. 4648; Gaz. vol. 175; p. 799.
Russell, William H., Newcastle, New Brunswick, Canada. Thrust-bearing. No. 1,024,457; Apr. 23; Sp. p. 5770; Gaz. vol. 177; p. 1003.
Russell, William L., Wellsboro, Pa. Headlight-curtain. No. 1,026,703; May 21; Sp. p. 3545; Gaz. vol. 178; p. 618.
Russum, Jacob S. (See Poe, John, assignor.)
Rust, Henry, Worthington, Minn. Corn-gathering machine. No. 1,046,335; Dec. 3; Gaz. vol. 185; p. 187.
Rust, John C., Detroit, Mich. Cutting apparatus. No. 1,029,825; June 18; Sp. p. 3827; Gaz. vol. 179; p. 671.
Rust, Otis R., Kansas City, Mo. Belt-fastening means. No. 1,022,508; Apr. 9; Sp. p. 1589; Gaz. vol. 177; p. 284.
Rust, Robert R., New York, N. Y. Molding apparatus. No. 1,029,563; June 11; Sp. p. 3236; Gaz. vol. 179; p. 542.
Rust, Robert R., New York, N. Y. Pipe-joint. No. 1,037,171; Aug. 27; Gaz. vol. 181; p. 1040.
Rusterholz, Rudolf W. (See Priseler and Rusterholz.)
Rustige, Frans J. H. (See Nässén and Rustige.)
Rutenbeck, Carl W. (See Schneider, Rutenbeck, and Hill.)
Rutgerswerke-Actiengesellschaft. (See Kahl, Leopold, assignor.)
Ruth, David C. (See Griebe and Ruth.)
Ruth, John F., St. Louis, Mo. Metallic window. No. 1,028,391; June 4; Sp. p. 712; Gaz. vol. 179; p. 108.
Ruth, John F., St. Louis, Mo. Metallic window. No. 1,028,392; June 4; Sp. p. 717; Gaz. vol. 179; p. 108.
Ruth, John F., St. Louis, Mo. Metallic window. No. 1,028,393; June 4; Sp. p. 721; Gaz. vol. 179; p. 109.
Ruth, John F., St. Louis, Mo. Window. No. 1,042,974; Oct. 29; Gaz. vol. 183; p. 1248.
Ruth, Max, Jersey City, N. J. Clothes-line support. No. 1,038,968; Sept. 17; Gaz. vol. 182; p. 675.
Ruthardt, Hermann, Stuttgart, Germany. Shaft-coupling. No. 1,047,841; Dec. 17; Gaz. vol. 185; p. 782.
Ruthenburg, Louis, Louisville, Ky. Apparatus for cooling fluids. No. 1,013,449; Jan. 2; Sp. p. 785; Gaz. vol. 174; p. 125.
Ruthenburg, Marcus, London, England. Electric furnace. No. 1,018,727; Feb. 27; Sp. p. 5554; Gaz. vol. 175; p. 961.
Rutherford, Frank H., Chicago, Ill. Automatic train-pipe coupling. No. 1,025,540; May 7; Sp. p. 974; Gaz. vol. 178; p. 151.
Ruthstein, Nathan M., assignor to Steel Shoe Company, Racine, Wis. Footwear. No. 1,026,407; May 14; Sp. p. 2916; Gaz. vol. 178; p. 483.
Ruthven, Arthur T., Topeka, Kans. Carbureter. No. 1,049,273; Dec. 31; Gaz. vol. 185; p. 1336.
Ruthven, John, Detroit, Mich. Carbureter. No. 1,046,653; Dec. 10; Gaz. vol. 185; p. 337.
Rutledge, Frank W., and E. E. Ireland, Elk River, Minn. Boot-leg for track-circuits. No. 1,043,467; Nov. 5; Gaz. vol. 184; p. 152.
Ruttan, Alfred A., and C. E. Hutchings, assignors to Eastman Kodak Co., Rochester, N. Y. Camera-back. No. 1,024,747; Apr. 30; Sp. p. 6485; Gaz. vol. 177; p. 1114.
Ruttan, Alfred A., and C. E. Hutchings, assignors to Eastman Kodak Co., Rochester, N. Y. Securing device for camera-backs. No. 1,030,433; June 25; Sp. p. 5175; Gaz. vol. 179; p. 921.
Rutzky, Paul, Crefeld, Germany. Insulator. No. 1,016,780; Feb. 6; Sp. p. 1228; Gaz. vol. 175; p. 189.
Ruud, Edwin, Pittsburgh, Pa. Water-heater. No. 1,028,284; June 4; Sp. p. 481; Gaz. vol. 179; p. 70.
Ruwell, William F., Philadelphia, Pa. Compressor-pump. No. 1,023,685; Apr. 16; Sp. p. 4075; Gaz. vol. 177; p. 715.
Ruwell, William F., Philadelphia, Pa. Valve. No. 1,029,464; June 11; Sp. p. 3035; Gaz. vol. 179; p. 508.
Ryan, Catherine, St. Paul, Minn. Nut-lock. No. 1,016,897; Feb. 6; Sp. p. 1459; Gaz. vol. 175; p. 226.
Ryan, Charles B., *et al.* (See Hargis, Harry W., assignor.)
Ryan, Charles O. (See Carpenter and Ryan.)
Ryan, Edward J. (See Schoonmaker, Charles A., assignor.)
Ryan, Irney D., Devils Lake, N. D. Draft-equalizer. No. 1,044,577; Nov. 19; Gaz. vol. 184; p. 594.
Ryan, James R. (See Herron, John, assignor.)
Ryan, John, Winnipeg, Manitoba, Canada. Twisting-machine. No. 1,029,465; June 11; Sp. p. 3039; Gaz. vol. 179; p. 508.
Ryan, John J., Houston, Tex. Duplex water-gage. No. 1,040,020; Oct. 1; Gaz. vol. 183; p. 116.
Ryan, Lawrence F., New York, N. Y. Retaining means for receptacle-covers. No. 1,017,324; Feb. 13; Sp. p. 2429; Gaz. vol. 175; p. 412.
Ryan, Michael, Somerville, N. J. Guard-rail. No. 1,038,969; Sept. 17; Gaz. vol. 182; p. 676.
Ryan, Michael B., Boston, Mass., assignor, by mesne assignments, to The Automatic Chain Company, Buffalo, N. Y. Electric chain-welding machine. No. 1,023,127; Apr. 16; Sp. p. 2956; Gaz. vol. 177; p. 534.
Ryan, Michael B., Boston, Mass., assignor to McKinnon Chain Company. Chain-welding machine. No. 1,023,129; Apr. 16; Sp. p. 2968; Gaz. vol. 177; p. 535.
Ryan, Michael B., Boston, Mass., assignor to McKinnon Chain Company. Electric welding-machine. No. 1,023,130; Apr. 16; Sp. p. 2973; Gaz. vol. 177; p. 535.
Ryan, Michael B., Bridgeport, Conn., assignor to McKinnon Chain Company. Electrical welding-machine. No. 1,023,128; Apr. 16; Sp. p. 2962; Gaz. vol. 177; p. 535.
Ryan, Michael E., Fall River, Mass. Apparatus for collecting and assorting fibers. No. 1,024,148; Apr. 23; Sp. p. 5122; Gaz. vol. 177; p. 900.
Ryan, Michael E., Fall River, Mass. Shaving-machine. No. 1,024,149; Apr. 23; Sp. p. 5123; Gaz. vol. 177; p. 901.
Ryan, Michael J., Perth Amboy, N. J. Music-sheet turner. No. 1,038,662; Sept. 17; Gaz. vol. 182; p. 570.
Ryan, Oscar. (See Sunde and Ryan.)
Ryan, Walter D., Watertown, S. D., assignor to General Electric Company. Diffusing-cluster. No. 1,022,878; Apr. 9; Sp. p. 2399; Gaz. vol. 177; p. 410.
Ryan, Walter S., assignor to L. Hengerer, trustee, New York, N. Y. Electric advertising and signaling device. No. 1,017,172; Feb. 13; Sp. p. 2099; Gaz. vol. 175; p. 360.
Ryan, Walter S., assignor to L. Hengerer, trustee, New York, N. Y. Electric-light attachment. No. 1,017,173; Feb. 13; Sp. p. 2101; Gaz. vol. 175; p. 360.
Ryan, Walter S., assignor to L. Hengerer, trustee, New York, N. Y. Electrical make-and-break-circuit device. No. 1,033,473; July 23; Gaz. vol. 180; p. 1021.
Ryan, Wilbur E., Memphis, Tenn. File-cabinet. No. 1,029,231; June 11; Sp. p. 2515; Gaz. vol. 179; p. 427.
Ryans, Charles L., Covington, Ky. Flagstaff. No. 1,041,173; Oct. 15; Gaz. vol. 183; p. 573.
Ryberg, Charles O., Brockton, Mass. Heel building and pressing machine. No. 1,015,589; Jan. 23; Sp. p. 5519; Gaz. vol. 174; p. 944.
Rycroft, Harriet B., Greenville, S. C. Pillow-sham holder, No. 1,047,842; Dec. 17; Gaz. vol. 185; p. 783.
Rydberg, John T., Garwood, N. J. Aeroplane. No. 1,030,542; June 25; Sp. p. 5459; Gaz. vol. 179; p. 959.
Rydberg, John T., Garwood, N. J. Engine construction. No. 1,038,970; Sept. 17; Gaz. vol. 182; p. 676.
Ryden, Axel, and C. H. Stahl, Chicago, Ill. Lock-nut. No. 1,017,471; Feb. 13; Sp. p. 2752; Gaz. vol. 175; p. 463.
Ryden, Claes, Providence, R. I., assignor to Universal Winding Company, Portland, Me. Winding-machine. No. 1,028,609; June 4; Sp. p. 1182; Gaz. vol. 179; p. 181.
Ryden, Claes, Providence, R. I., assignor to Universal Winding Company, Portland, Me. Unwinding device. No. 1,032,085; July 9; Gaz. vol. 180; p. 468.
Ryden, Claes, Providence, R. I., assignor to Universal Winding Company, Portland, Me. Cop or bobbin. No. 1,038,971; Sept. 17; Gaz. vol. 182; p. 677.
Ryden, Claes, Providence, R. I., assignor to Universal Winding Company, Portland, Me. Tension device. No. 1,048,889; Dec. 31; Gaz. vol. 185; p. 1205.
Ryder, James P., Clarksville, Tenn. Meter-box cover. No. 1,015,907; Jan. 30; Sp. p. 6195; Gaz. vol. 174; p. 1080.
Ryder, John P. (See Moran, John F., assignor.)
Ryder, Silas E., Tulsa, Okla. Shaft-hanger. No. 1,032,244; July 9; Gaz. vol. 180; p. 523.
Rydquist, Adolph, Rochester, N. Y. Paper-dispensing apparatus. No. 1,025,312; May 7; Sp. p. 455; Gaz. vol. 178; p. 72.
Rydquist, Adolph, Rochester, N. Y. Paper-dispensing apparatus. No. 1,026,128; May 14; Sp. p. 2298; Gaz. vol. 178; p. 387.
Rydquist, Adolph, Rochester, N. Y. Vending-machine. No. 1,026,927; May 21; Sp. p. 4050; Gaz. vol. 178; p. 695.
Rydquist, Adolph, Rochester, N. Y. Coin-controlled machine. No. 1,034,147; July 30; Gaz. vol. 180; p. 1277.
Ryerson, Cornelius A., Toronto, Ontario, Canada. Water-heater. No. 1,019,090; Mar. 5; Sp. p. 183; Gaz. vol. 176; p. 29.
Ryerson, George A., assignor of one-half to C. R. Callaghan, Bellevue, Ohio. Reversible feed-hopper for baling-presses. No. 1,021,730; Mar. 26; Sp. p. 5759; Gaz. vol. 176; p. 1034.
Ryker, Clarence D., Galena, Ark. Pitchfork and rake. No. 1,034,306; July 30; Gaz. vol. 180; p. 1331.
Rylands, George F. (See Bartley, Charles B., assignor.)

Alphabetical list of patentees—Continued.

Rylands, George F., *et al.* (See Bartley, Charles B., assignor.)
Ryon, Eppa H., Worcester, Mass., assignor to Crompton & Knowles Loom Works. Loom. No. 1,020,664; Mar. 19; Sp. p. 3534; Gaz. vol. 176; p. 622.
Ryon, Eppa H., Worcester, Mass., assignor to Crompton & Knowles Loom Works. Weft-replenishing loom. No. 1,022,108; Apr. 2; Sp. p. 750; Gaz. vol. 177; p. 120.
Ryon, Eppa H., Worcester, Mass., assignor to Crompton & Knowles Loom Works. Spool-holder and tension device for winding-machines. No. 1,040,768; Oct. 8; Gaz. vol. 183; p. 404.
Ryon, Eppa H., Waltham, Mass., assignor to Crompton & Knowles Loom Works. Weft-replenishing loom. No. 1,022,109; Apr. 2; Sp. p. 752; Gaz. vol. 177; p. 120.
Ryon, Eppa H., Waltham, Mass., assignor to Crompton & Knowles Loom Works. Weft-replenishing loom. No. 1,029,948; June 18; Sp. p. 4105; Gaz. vol. 179; p. 712.
Ryon, Eppa H., Waltham, Mass., assignor to Crompton & Knowles Loom Works. Weft-replenishing loom. No. 1,030,748; June 25; Sp. p. 6065; Gaz. vol. 179; p. 1033.
Ryon, Eppa H., Waltham, Mass., assignor to Crompton & Knowles Loom Works. Transfer mechanism for weft-replenishing looms. No. 1,032,709; July 16; Gaz. vol. 180; p. 727.
Ryon, Eppa H., Waltham, Mass., assignor to Crompton & Knowles Loom Works. Filling-thread-cutting mechanism for weft-replenishing looms. No. 1,034,932; Aug. 6; Gaz. vol. 181; p. 178.
Ryon, Eppa H., Waltham, Mass., assignor to Crompton & Knowles Loom Works. Locking device for filling-detectors of weft-replenishing looms. No. 1,040,985; Oct. 8; Gaz. vol. 183; p. 477.
Ryon, Eppa H., Waltham, Mass., assignor to Crompton & Knowles Loom Works. Filling-thread-cutting mechanism for weft-replenishing looms. No. 1,041,882; Oct. 22; Gaz. vol. 183; p. 849.
Ryon, Eppa H., Waltham, Mass., assignor to Crompton & Knowles Loom Works. Weft-replenishing loom. No. 1,045,443; Nov. 26; Gaz. vol. 184; p. 924.
Ryon, Eppa H., Waltham, Mass., assignor to Crompton & Knowles Loom Works. Filling-thread-cutting mechanism for weft-replenishing looms. No. 1,048,591; Dec. 31; Gaz. vol. 185; p. 1100.
Ryon, John B. (See Nies, Henry, assignor.)
Ryszka, Theodor R., Baltimore, Md. Power-transmission mechanism. No. 1,033,273; July 23; Gaz. vol. 180; p. 956.
Ryther, George D., assignor to The Ryther & Pringle Company, Carthage, N. Y. Paper-stock shredder. No. 1,023,762; Apr. 16; Sp. p. 4206; Gaz. vol. 177; p. 739.
Ryther, Henry A., Montague, assignor to Millers Falls Company, Millers Falls, Mass. Change-speed gearing. No. 1,034,838; Aug. 6; Gaz. vol. 181; p. 147.
Ryther & Pringle Company, The. (See Ryther, George D., assignor.)
S. Howes Company, The. (See Barbeau, Malcolm L., assignor.)
S. Morgan Smith Co. (See Felthousen, John H., assignor.)
S. Sternau & Co. (See Nelson and Axt, assignors.)
S. A. Woods Machine Company. (See Blood, Charles W. H., assignor.)
S. C. Morgan Smith Company. (See Felthousen, John H., assignor.)
S. F. Bowser & Co. (See Bowser, Allen A., assignor.)
S. F. Bowser & Co. (See Bowser, Harry M., assignor.)
S. F. Bowser & Company. (See Cooley, Oren, assignor.)
S. & F. Metals Company. (See Walton, Samuel T., assignor.)
S. H. Pomeroy Company. (See Fromhold, Alexander, assignor.)
S. M. Jones Company, The. (See Jones and Strub, assignors.)
S. O. & C. Co. (See Pickles, James, assignor.)
S. P. C. Gas Engine Company. (See Hornbostel, Edward A., assignor.)
S. R. Dresser Manufacturing Company. (See Clark and Irwin, assignors.)
S. R. Dresser Manufacturing Company. (See Miller, Fred A., assignor.)
S. R. Dresser Manufacturing Company. (See Smith, Frank N., assignor.)
S. R. Dresser Manufacturing Company. (See White, George H., assignor.)
S. R. Smythe Company, The. (See Smythe, Horace E., assignor.)
S. & S. Auto Starter Company, The. (See Sharpe, William A., assignor.)
S. S. White Dental Manufacturing Company, The. (See Wiggins, Harry G., assignor.)
Saalfeld, Gunter von, Seattle. Wash. Electric sign. No. 1,041,174; Oct. 15; Gaz. vol. 183; p. 574.
Saarbach, Ludwig, New York, N. Y. Making fertilizers. No. 1,036,909; Aug. 27; Gaz. vol. 181; p. 952.
Sabatino, John, Richmond Hill, assignor of one-half to J. Waldron, Morris, Park, N. Y. Clutch mechanism for motor-shafts. No. 1,020,223; Mar. 12; Sp. p. 2603; Gaz. vol. 176; p. 441.
Sabin, John, *et al.* (See Gray, Edward A., assignor.)
Sabin, Walter H., and H. Larson, Crookston, Minn. Scale. No. 1,017,596; Feb. 13; Sp. p. 2982; Gaz. vol. 175; p. 504.
Sabo, John, Cleveland, Ohio. Depilator. No. 1,036,725; Aug. 27; Gaz. vol. 181; p. 892.
Sabonadier, Paul, Eaubonne, and E. D'Eaubonne, Neuilly-sur-Seine, France. Preparing warp for manufacturing pile fabric. No. 1,024,421; Apr. 23; Sp. p. 5696; Gaz. vol. 177; p. 992.
Sabourin, Frank H., Newport, Vt. Barrel. No. 1,014,524; Jan. 9; Sp. p. 3147; Gaz. vol. 174; p. 523.
Sacavem, Victor S., New York, N. Y. Toy whistle. No. 1,039,814; Oct. 1; Gaz. vol. 183; p. 49.
Sacerdoti, Cesare, Philadelphia, Pa., assignor to Fiat San Georgio, Spezia, Italy. Controlling device for motors. No. 1,019,091; Mar. 5; Sp. p. 183; Gaz. vol. 176; p. 30.
Sachs, Caroline N., assignor to The Sachs Company, Hartford, Conn. Jacket for safety-fuses. No. 1,016,443; Feb. 6; Sp. p. 476; Gaz. vol. 175; p. 73.
Sachs, Caroline N., assignor to The Sachs Company, Hartford, Conn. Electric safety-fuse. No. 1,016,524; Feb. 6; Sp. p. 676; Gaz. vol. 175; p. 101.
Sachs Company, The. (See Sachs, Caroline N., assignor.)
Sachs Company, The. (See Sachs, Joseph, assignor.)
Sachs, Ernst, Schweinfurt, Germany. Free-wheel gear with back-pedaling brake. No. 1,014,180; Jan. 9; Sp. p. 2412; Gaz. vol. 174; p. 405.
Sachs, Ernst, Schweinfurt, Germany. Free-wheeling and back-pedaling gear. No. 1,014,181; Jan. 9; Sp. p. 2415; Gaz. vol. 174; p. 405.
Sachs, Ernst, Schweinfurt, Germany. Free-wheel and back-pedaling brake mechanism. No. 1,017,472; Feb. 13; Sp. p. 2754; Gaz. vol. 175; p. 464.
Sachs, Ernst, Schweinfurt, Germany. Cage-ring for ball-bearings. No. 1,045,193; Nov. 26; Gaz. vol. 184; p. 836.
Sachs, Ernst, Schweinfurt, Germany. Coaster-brake fastener. No. 1,045,194; Nov. 26; Gaz. vol. 184; p. 836.
Sachs, Ernst. Schweinfurt, Germany. Coaster-brake connector. No. 1,045,195; Nov. 26; Gaz. vol. 184; p. 837.
Sachs, Ernst, Schweinfurt, and M. Mossig, Berlin, Germany. Back-pedaling brake and free-wheel mechanism. No. 1,015,744; Jan. 23; Sp. p. 5847; Gaz. vol. 174; p. 997.
Sachs, Joseph, assignor to The Sachs Company, Hartford, Conn. Thermal cut-out. No. 1,014,098; Jan. 9; Sp. p. 2253; Gaz. vol. 174; p. 377.
Sachse, Louis, Los Angeles, Cal. Gold and quicksilver saving apparatus. No. 1,022,110; Apr. 2; Sp. p. 756; Gaz. vol. 177; p. 121.
Sack, Adelheid, widow and heir. (See Sack, Hugo.)
Sack, Claude S., Springfield, Nebr. Elevated carrier. No. 1,034,515; Aug. 6; Gaz. vol. 181; p. 39.
Sack, Hugo, deceased, Dusseldorf, Germany; A. Sack, widow and heir. Producing I-beams. No. 1,013,567; Jan. 2; Sp. p. 1031; Gaz. vol. 174; p. 166.
Sackett, August J., Baltimore, Md. Pulverizing-mill. No. 1,040,769; Oct. 8; Gaz. vol. 183; p. 405.
Sackett, James, Venango, Pa. Lock for mail-bags and the like. No. 1,015,908; Jan. 30; Sp. p. 6196; Gaz. vol. 174; p. 1080.
Sackett, James E., Monticello, N. Y. Revolving-piston rotary steam-engine. No. 1,022,265; Apr. 2; Sp. p. 1078; Gaz. vol. 177; p. 172.
Sackett, John. (See Nightingale and Sackett.)
Sackett, Robert J. (See White and Sackett.)
Sacks, Harry M., Brooklyn, N. Y. Nose-clip for eyeglasses. No. 1,040,770; Oct. 8; Gaz. vol. 183; p. 405.
Saco-Pettee Company. (See Blake and Goldsmith, assignors.)
Saco-Pettee Company. (See Mills, Charles, assignor.)
Saco-Pettee Company. (See Mills and Penney, assignors.)
Saco-Pettee Company. (See Penney, Loren W., assignor.)
Saco-Pettee Company. (See Rankeillor, Alexander, assignor.)
Saddlemire, Sheridan, Knox, N. Y. Baling-press. No. 1,033,829; July 30; Gaz. vol. 180; p. 1164.
Sadger, Adolf, Berlin, Germany, assignor to The American Rotary Machine Company, New York, N. Y. Rotary machine. No. 1,028,285; June 4; Sp. p. 485; Gaz. vol. 179; p. 71.
Sadler, Frederick M., Ellsworth, Minn. Steering mechanism. No. 1,048,890; Dec. 31; Gaz. vol. 185; p. 1206.
Sadler, Herbert A., South Attleboro, Mass. Pin-tongue and fastening therefor. No. 1,033,621; July 23; Gaz. vol. 180; p. 1070.
Sadler, Louis E., assignor to The F. H. Sadler Co., Attleboro, Mass. Polishing-hood. No. 1,047,571; Dec. 17; Gaz. vol. 185; p. 688.
Sadowski, Ludwik, Baltimore, Md. Envelop-opening device. No. 1,014,415; Jan. 9; Sp. p. 2947; Gaz. vol. 174; p. 489.
Sadtler, John P. B., Baltimore, Md. Domestic water-circulating system. No. 1,016,959; Feb. 13; Sp. p. 1625; Gaz. vol. 175; p. 285.
Sadtler, Wilhelm, Homburg-vor-der-Höhe, assignor to Firm of E. P. Lehmann, Brandenburg-on-the-Havel, Germany. Toy. No. 1,041,677; Oct. 15; Gaz. vol. 183; p. 741.

Alphabetical list of patentees—Continued.

Saeger, Otto, Breslau, Germany. Machine for cleaning muffles or zinc-furnaces. No. 1,014,333; Jan. 9; Sp. p. 2765; Gaz. vol. 174; p. 460.
Saehrendt, Paul E. Brooklyn, N. Y. Pocket adding-machine. No. 1,035,475; Aug. 13; Gaz. vol. 181; p. 394.
Saemann, Laura N., Oak Park, Ill. Abdominal supporter. No. 1,019,365; Mar. 5; Sp. p. 832; Gaz. vol. 176; p. 124.
Saenger, Moritz, Magdeburg, Germany. Medical spraying-syringe. No. 1,024,422; Apr. 23; Sp. p. 5700; Gaz. vol. 177; p. 992.
Safberg, Bror F., Barberton, Ohio, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Header for water-tube boilers. No. 1,039,815; Oct. 1; Gaz. vol. 183; p. 49.
Safe Cabinet Company, The. (See Wege, Peter M., assignor.)
Safely, George W., assignor of one-half to H. A. Cunliffe, New Orleans, La. Lathe attachment. No. 1,048,891; Dec. 31; Gaz. vol. 185; p. 1206.
Safety-Armorite Conduit Company. (See Free, John W., assignor.)
Safety Car Heating and Lighting Company. (See Creveling, John L., assignor.)
Safety Car Heating & Lighting Company. (See Dixon, Robert M., assignor.)
Safety Car Heating & Lighting Company, The. (See Dixon and Hulse, assignors.)
Safety Car Heating & Lighting Company, The. (See Garland, William L., assignor.)
Safety Car Heating & Lighting Company, The. (See Schepmoes, Lindsley, assignor.)
Safety Car Heating & Lighting Company, The. (See Sofio, Edward C., assignor.)
Safety Car Heating & Lighting Company. (See Thomson and Thompson, assignors.)
Safety Car Heating & Lighting Company, The. (See Towne, Joseph M., assignor.)
Safety Equipment Manufacturing Company. (See Hochfeldt, William, assignor.)
Safety Foot Guard & Railway Appliance Company. (See Dunkle, Samuel K., assignor.)
Safety Sled Company, The. (See Hornquist, Frank, assignor.)
Safford, Philip G. (See Emrick and Safford.)
Safley, William A., Bedford, Iowa. Knockdown shipping-crate. No. 1,044,251; Nov. 12; Gaz. vol. 184; p. 452.
Sagabiel, Lee G., Memphis, Ind. Safety appliance for hammer-guns. No. 1,021,427; Mar. 26; Sp. p. 5162; Gaz. vol. 176; p. 934.
Sage, William A. (See Noack, Walter G., assignor.)
Sager, Albert C., Savanna, Ill. Car-door. No. 1,039,446; Sept. 24; Gaz. vol. 182; p. 856.
Sagramoso, Alfonso, Philadelphia, Pa. Vehicle-fender. No. 1,021,630; Mar. 26; Sp. p. 5575; Gaz. vol. 176; p. 1001.
Sahlen, Albert. (See Johnson and Sahlen.)
Sahlfeld, Friedrich, Hanover, Germany. Apparatus for extracting rubber. No. 1,048,892; Dec. 31; Gaz. vol 185; p. 1206.
Sahlin, Henning G., Maplewood, Mass., assignor to General Electric Company. Coil-winding machine. No. 1,025,835; May 7; Sp. p. 1585; Gaz. vol. 178; p. 252.
Sahm, Louis N., New York, N. Y. Dye or stain. No. 1,016,295; Feb. 6; Sp. p. 131; Gaz. vol. 175; p. 20.
Sahmer, Gustav, Strassburg, Germany. Door-lock. No. 1,038,663; Sept. 17; Gaz. vol. 182; p. 570.
Sailer, John M., Janesville, Wis. Driving-gear mechanism. No. 1,044,579; Nov. 19; Gaz. vol. 184; p. 595.
Sailer, John M., Janesville, Wis. Traction-engine. No. 1,044,580; Nov. 19; Gaz. vol. 184; p. 596.
Sailer, John M., Janesville, Wis. Hitch or draft device. No. 1,044,581; Nov. 19; Gaz. vol. 184; p. 596.
Sailer, John M., Janesville, Wis., assignor of one-half to W. Musser, Iowa City, Iowa. Internal-combustion engine. No. 1,042,975; Oct. 29; Gaz. vol. 183; p. 1248.
Sailer, John M., Janesville, Wis., assignor of one-half to W. Musser, Iowa City, Iowa. Traction-engine. No. 1,044,578; Nov. 19; Gaz. vol. 184; p. 595.
Saito, Yasoji. (See Sato and Saito.)
Saklatwalla, Byramji D., Bridgeville, assignor to The American Vanadium Co., Pittsburgh, Pa. Recovery of vanadium. No. 1,020,224; Mar. 12; Sp. p. 2605; Gaz. vol. 176; p. 442.
Saklatwalla, Byramji D., Bridgeville, assignor to The American Vanadium Co., Pittsburgh, Pa. Recovery of vanadium. No. 1,020,312; Mar. 12; Sp. p. 2769; Gaz. vol. 176; p. 469.
Sala, José P. (See Hatton and Sala.)
Salamon, Alfred G., London, and C. J. Grace, Steyning, assignors to The Exploration Company, Limited, London, England. Preparation of china-clay. No. 1,032,862; July 16; Gaz. vol. 180; p. 778.
Salenius, Anders G. G., assignor to Separator Aktiebolaget Fama, Stockholm, Sweden. Gearing. No. 1,030,208; June 18; Sp. p. 4659; Gaz. vol. 179; p. 800.
Salenius, Anders G. G., assignor to Separator Aktiebolaget Fama, Stockholm, Sweden. Lubricating system for centrifugal machines. No. 1,045,751; Nov. 26; Gaz. vol. 184; p. 1034.
Salessky, Joseph, Moscow, Russia. Furnace. No. 1,033,949; July 30; Gaz. vol. 180; p. 1207.
Salisbury, Edgar E., assignor to Signalphone Alarm Company, Milwaukee, Wis. Signal. No. 1,038,206; Sept. 10; Gaz. vol. 182; p. 376.
Salisbury, Everett E., *et al.* (See Tucker, Charles N., assignor.)
Salisbury, George E., Arcadia, Cal. Wind motive apparatus. No. 1,046,026; Dec. 3; Gaz. vol. 185; p. 77.
Salisbury, James W., Hoytville, Ohio. Supplemental adjustable stove-leg. No. 1,036,726; Aug. 27; Gaz. vol. 181; p. 892.
Salisbury, Leonard N., Clarksburg, W. Va. Cuspidor-holder. No. 1,035,476; Aug. 13; Gaz. vol. 181; p. 394.
Salisbury, Philip A. (See Grotenhuis, William J., assignor.)
Salisbury, Walter. (See Cluts, Salisbury, and Turall.)
Salisbury, William, Stoughton, Mass. Fabric-coating machine. No. 1,023,398; Apr. 16; Sp. p. 3518; Gaz. vol. 177; p. 626.
Sallee, Robert A., Middletown, Cal. Vacuum-pump and air-compressor. No. 1,048,737; Dec. 31; Gaz. vol. 185; p. 1152.
Sallop, Henry A., New York, N. Y. Spare-tire cover. No. 1,047,303; Dec. 17; Gaz. vol. 185; p. 594.
Sallstrom, Oskar, Falun, Alberta, Canada. Lock. No. 1,015,640; Jan. 23; Sp. p. 5628; Gaz. vol. 174; p. 963.
Salm, Sali, Cologne-Ehrenfeld, Germany. Apparatus for making tight the pores of castings. No. 1,019,532; Mar. 5; Sp. p. 1202; Gaz. vol. 176; p. 178.
Salmen, Rudolf, Chicago, Ill. Flying-machine. No. 1,025,999; May 14; Sp. p. 1985; Gaz. vol. 178; p. 342.
Salmer, Joseph J., Clinton, Iowa. Gage for setting cutter-head knives. No. 1,042,280; Oct. 22; Gaz. vol. 183; p. 980.
Salmon, Edward W., Jr. (See Palmer and Salmon.)
Salmon, Harry, assignor to The Expanded Metal Company, Limited, Westminster, England. Apparatus for manufacturing expanded metal. No. 1,043,540; Nov. 5; Gaz. vol. 184; p. 177.
Salmon, Harry, assignor to The Expanded Metal Company, Limited, Westminster, England. Apparatus for manufacturing expanded metal. No. 1,043,541; Nov. 5; Gaz. vol. 184; p. 178.
Salmon, Harry, assignor to The Expanded Metal Company, Limited, Westminster, England. Manufacture of expanded metal. No. 1,043,733; Nov. 5; Gaz. vol. 184; p. 242.
Salmon, Harry K., Philadelphia, Pa. Combined saw jointer and gage. No. 1,018,446; Feb. 27; Sp. p. 4899; Gaz. vol. 175; p. 866.
Salmon, Herbert S., Bessemer, Ala. Car-dumping mechanism. No. 1,036,910; Aug. 27; Gaz. vol. 181; p. 952.
Salmon, Royal, Kansas City, Mo. Fluid shut-off. No. 1,026,884; May 21; Sp. p. 3955; Gaz. vol. 178; p. 681.
Salomon, Joseph, Chicago, Ill. Wire-chair. No. 1,041,355; Oct. 15; Gaz. vol. 183; p. 635.
Salpetersäure-Industrie-Gesellschaft, G. m. b. H. (See Grohmann, Hans, assignor.)
Salpetersaüre-Industrie-Gesellschaft G. m. b. H. (See Pauling, Harry, assignor.)
Salsbury, George E., Arcadia, Cal. Apparatus for producing concrete pipe with waterproof lining therein. No. 1,023,336; Apr. 16; Sp. p. 3398; Gaz. vol. 177; p. 606.
Salsbury, Henry, and T. Whitaker, London, England. Search-light. No. 1,044,252; Nov. 12; Gaz. vol. 184; p. 453.
Salsbury, J. (See Seely, George A., assignor.)
Salsich, Neil E., Harrisburg, Pa. Railway structure. No. 1,016,525; Feb. 6; Sp. p. 679; Gaz. vol. 175; p. 101.
Salstrom, Axel F., Paxton, Ill. Collapsible cup or tray. No. 1,015,085; Jan. 16; Sp. p. 4431; Gaz. vol. 174; p. 745.
Salstrom, David B., assignor of one-half to E. Kopriwa, Chicago, Ill. Belt-gearing for carving-machines. No. 1,013,617; Jan. 2; Sp. p. 1142; Gaz. vol. 174; p. 182.
Salstrom, David B., assignor of one-half to E. Kopriwa, Chicago, Ill. Carving-machine. No. 1,013,618; Jan. 2; Sp. p. 1144; Gaz. vol. 174; p. 182.
Salstrom, David B., assignor of one-half to E. Kopriwa, Chicago, Ill. Spindle-bearing. No. 1,013,847; Jan. 2; Sp. p. 1666; Gaz. vol. 174; p. 264.
Salt, Edward W., Birmingham, England. Surgical belt or device for the treatment of movable kidneys and other like purposes. No. 1,013,900; Jan. 9; Sp. p. 1808; Gaz. vol. 174; p. 310.
Salt Union, The. (See Malcolm and Munton, assignors.)
Salt, William A., assignor of one-half to S. H. Briggs, Providence, R. I. Dental plugger. No. 1,040,424; Oct. 8; Gaz. vol. 183; p. 283.
Salts Textile Manufacturing Company, The. (See Cutting and Marshall, assignors.)
Saltzer, Firm of J. W. (See Meyer, Karl, assignor.)
Saltzman, Auguste L., East Orange, N. J., assignor to American Planograph Company. Printing and composition unit. No. 1,034,839; Aug. 6; Gaz. vol. 181; p. 147.
Saltzman, Auguste L., East Orange, assignor, by mesne assignments, to Thomas A. Edison, Incorporated, West Orange, N. J. Primary battery. No. 1,036,344; Aug. 20; Gaz. vol. 181; p. 730.

Alphabetical list of patentees—Continued.

Saltzman, Elmer A., Noble, and E. Krabill, Wayland, Iowa. Wagon-box. No. 1,022,266; Apr. 2; Sp. p. 1081; Gaz. vol. 177; p. 173.
Saltzman, Harry, New York, N. Y. Shirt. No. 1,035,053; Aug. 6; Gaz. vol. 181; p. 216.
Salzbergwerk Neu-Stassfurt und Theilnehmer. (See Haberland and Schaefer, assignors.)
Salzer, Bruno, and G. Walther, Chemnitz, Germany. Straight-knitting frame. No. 1,023,763; Apr. 16; Sp. p. 4208; Gaz. vol. 177; p. 739.
Salzman, George S. (See Nehrbas, Pleuthner, and Salzman.)
Samaia, Dino D., Vicenza, Italy. Apparatus for actuating the conduit-covers of electric railways. No. 1,028,394; June 4; Sp. p. 723; Gaz. vol. 179; p. 109.
Samaia, Dino D., Vicenza, Italy. Chain and roller gearing for awnings and the like. No. 1,041,883; Oct. 22; Gaz. vol. 183; p. 850.
Samberg, Charles H., Toledo, Ohio. Stamp-canceling device. No. 1,034,516; Aug. 6; Gaz. vol. 181; p. 39.
Sames, John H., Galion, Ohio. Muffler. No. 1,045,614; Nov. 26; Gaz. vol. 184; p. 987.
Sammel, David, Altoona, Pa. Smoke-box door. No. 1,022,757; Apr. 9; Sp. p. 2167; Gaz. vol. 177; p. 371.
Sammet, Charles F., and J. L. Merrill, Washington, D. C. Treating fiber-yielding materials. No. 1,016,178; Jan. 30; Sp. p. 6748; Gaz. vol. 174; p. 1173.
Sammis, Albert V., Huntington, N. Y. Handle for satchels, &c. No. 1,023,175; Apr 16; Sp. p. 3083; Gaz. vol. 177; p. 551.
Sammis, Albert V., Huntington, N. Y. Paving-block. No. 1,045,328; Nov. 26; Gaz. vol. 184; p. 883.
Sammon, Thomas J., New York, N. Y. Hoisting-sling. No. 1,027,907; May 28; Sp. p. 6209; Gaz. vol. 178; p. 1065.
Sammons, Thomas A., Dayton, Ohio. Liquid-rule. No. 1,039,816; Oct. 1; Gaz. vol. 183; p. 49.
Sammons, Walter H., Philadelphia, Pa. Rear indicator for vehicles. No. 1,040,771; Oct. 8; Gaz. vol. 183; p. 405.
Samp, Charles L., Chelsea, Mich. Wagon-loader. No. 1,016,038; Jan. 30; Sp. p. 6477; Gaz. vol. 174; p. 1127.
Sampe, Otto E. (See Wendorf and Sampe.)
Sample, Elmore W., and W. H. Bason, Birmingham, Ala. Apparatus for forming castings. No. 1,031,202; July 2; Gaz. vol. 180; p. 126.
Sampley, John D., Buchanan, N. Mex. Combined utensil-handle and lid-lifter. No. 1,044,253; Nov. 12; Gaz. vol. 184; p. 453.
Sampson, Eric G., assignor to Art Metal Construction Company, Jamestown, N. Y. Base-lock for horizontal sectional units. No. 1,036,345; Aug. 20; Gaz. vol. 181; p. 730.
Sampson, George W., Whitman, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Last. No. 1,024,600; Apr. 30; Sp. p. 6179; Gaz. vol. 177; p. 1090.
Sampson, Robert, Montreal, Quebec, Canada. Puncture-closure for pneumatic tires and the like. No. 1,017,809; Feb. 20; Sp. p. 3489; Gaz. vol. 175; p. 613.
Sampson, Robert V., and S. T. Danley, Denver, Colo. Fastening device. No. 1,042,281; Oct. 22; Gaz. vol. 183; p. 980.
Sampson, Samuel J., Manning, N. D. Vehicle-brake. No. 1,041,356; Oct. 15; Gaz. vol. 183; p. 635.
Sampson, Thomas H., New Orleans, La. Treating red-gum and other like woods. No. 1,048,102; Dec. 24; Gaz. vol. 185; p. 897.
Samuel Courtauld & Company Limited. (See Napper, Sidney S., assignor.)
Samuel Haltom Company, The. (See Haltom, Samuel, assignor.)
Samuel J. Shimer & Sons. (See Gibeson, George A., assignor.)
Samuel J. Shimer & Sons. (See Watkins, Edward G., assignor.)
Samuel, Leopold S., Newark, N. J. Pad for footwear. No. 1,036,911; Aug. 27; Gaz. vol. 181; p. 952.
Samuel, Leopold S., Newark, N. J. Toupee. No. 1,040,425; Oct. 8; Gaz. vol. 183; p. 283.
Samuel Sternberger Company. (See Paradis, Albert, assignor.)
Samuel Ward Company. (See Moore, Morris W., assignor.)
Samuel Winslow Skate M'f'g. Co. (See Everett, Otis W., assignor.)
Samuels, Bernard, Schwerin, Germany. Apparatus for playing wind musical instruments. No. 1,046,654; Dec. 10; Gaz. vol. 185; p. 337.
Samuels, David, Chicago, Ill. Necktie. No. 1,015,840; Jan. 30; Sp. p. 6048; Gaz. vol. 174; p. 1056.
Samuels, Gustave A., Bellingham, Wash. Combined bedstead and table. No. 1,039,817; Oct. 1; Gaz. vol. 183; p. 49.
Samuels, Jacob, New York, N. Y. Mechanical advertising-sign. No. 1,015,714; Jan. 23; Sp. p. 5786; Gaz. vol. 174; p. 986.
Samuels, Lester W., New York, N. Y. Sanding device for automobiles. No. 1,044,919; Nov. 19; Gaz. vol. 184; p. 714.
Samuelson, Frederick, Rugby, England, assignor to General Electric Company. Elastic-fluid turbine. No. 1,013,317; Jan. 2; Sp. p. 512; Gaz. vol. 174; p. 81.
Samuelson, Frederick, Rugby, England, assignor to General Electric Company. Heat-accumulator for low-pressure fluid. No. 1,021,216; Mar. 26; Sp. p. 4687; Gaz. vol. 176; p. 859.
Samuelson, Frederick, Rugby, England, assignor to General Electric Company. Elastic-fluid turbine. No. 1,042,147; Oct. 22; Gaz. vol. 183; p. 936.
San, Morris, Passaic, assignor to East Jersey Match Company, Jersey City, N. J. Match-machine. No. 1,044,821; Nov. 19; Gaz. vol. 184; p. 680.
Sanandres, Antonio, New York, N. Y. Acoustic optical telegraph. No. 1,025,427; May 7; Sp. p. 699; Gaz. vol. 178; p. 111.
Sanborn Dating Stamp Company. (See Sanborn, Elmer H., assignor.)
Sanborn, Ellet, and A. K. Macdonald, Portland, Me. Dish-cleaner. No. 1,040,021; Oct. 1; Gaz. vol. 183; p. 117.
Sanborn, Elmer H., assignor to Sanborn Dating Stamp Company, Los Angeles, Cal. Dating-stamp. No. 1,014,260; Jan. 9; Sp. p. 2604; Gaz. vol. 174; p. 434.
Sanborn Evaporator Company. (See Sanborn, Thornton F., assignor.)
Sanborn, George O., Seattle, Wash. Knitted collar for garments. No. 1,021,071; Mar. 26; Sp. p. 4383; Gaz. vol. 176; p. 813.
Sanborn, Morton F., Somerville, Mass., assignor to M. H. Reed, Pittsburgh, Pa. Concrete-mixer. No. 1,048,738; Dec. 31; Gaz. vol. 185; p. 1152.
Sanborn, Thornton F., Ensenada, Porto Rico, Tube. No. 1,027,772; May 28; Sp. p. 5846; Gaz. vol. 178; p. 1018.
Sanborn, Thornton F., Ensenada, Porto Rico, assignor to Sanborn Evaporator Company. Evaporating apparatus. No. 1,028,792; June 4; Sp. p. 1553; Gaz. vol. 179; p. 242.
Sanborn, William W., *et al.* (See Frost, Walter E., assignor.)
Sandberg, Alvin D., Kearney, Nebr. Chicken-brooder. No. 1,033,950; July 30; Gaz. vol. 180; p. 1208.
Sande, Gus, assignor of one-third to J. L. Larimer and one-third to H. Hobey, Seattle, Wash. Monorail car. No. 1,035,243; Aug. 13; Gaz. vol. 181; p. 312.
Sande, Gus, assignor of one-third to J. L. Larimer and one-third to H. Hobey, Seattle, Wash. Monorail switch. No. 1,035,244; Aug. 13; Gaz. vol. 181; p. 312.
Sandell, Henry K., assignor to Mills Novelty Company, Chicago, Ill. Lubricant device. No. 1,024,150; Apr. 23; Sp. p. 5127; Gaz. vol. 177; p. 901.
Sandell, Henry K., assignor to Mills Novelty Company, Chicago, Ill. Electric self-playing violin. No. 1,028,495; June 4; Sp. p. 951; Gaz. vol. 179; p. 143.
Sandell, Henry K., assignor to Mills Novelty Company, Chicago, Ill. Piano. No. 1,028,496; June 4; Sp. p. 957; Gaz. vol. 179; p. 144.
Sandell, Henry K., assignor to Mills Novelty Company, Chicago, Ill. Electric self-playing violin. No. 1,031,292; July 2; Gaz. vol. 180; p. 156.
Sandell, Henry K., assignor to Mills Novelty Company, Chicago, Ill. Tracker-board. No. 1,036,152; Aug. 20; Gaz. vol. 181; p. 662.
Sandell, Henry K., assignor to Mills Novelty Company, Chicago, Ill. Electric piano. No. 1,045,444; Nov. 26; Gaz. vol. 184; p. 925.
Sandell, Julius. (See Ledington and Sandell.)
Sander, Arthur E., Chicago, Ill. Caster. No. 1,046,027; Dec. 3; Gaz. vol. 185; p. 78.
Sander, Henry R. (See Judah and Sander.)
Sander, Herman. (See Keller and Seiler, assignors.)
Sander, Petrus, Moline, Ill. Apparatus for actuating water-motors. No. 1,029,030; June 11; Sp. p. 2090; Gaz. vol. 179; p. 360.
Sander, Valentine, and P. W. Seiler, Rochester, N. Y. Bracket and support therefor. No. 1,017,174; Feb. 13; Sp. p. 2103; Gaz. vol. 175; p. 361.
Sanders, Charles B., Montclair, N. J., assignor to Union Paper Bag Machine Company, Philadelphia, Pa. Paper bag. No. 1,029,893; June 18; Sp. p. 3986; Gaz. vol. 179; p. 694.
Sanders, David H., Flint, Mich. Wagon-body cover. No. 1,035,245; Aug. 13; Gaz. vol. 181; p. 313.
Sanders, Ira B., Fort Worth, Tex. Combination-swing and other articles of furniture. No. 1,013,956; Jan. 9; Sp. p. 1946; Gaz. vol. 174; p. 330.
Sanders, James M., *et al.* (See Tatum, Franklin M., assignor.)
Sanders, John J., East Grand Forks, Minn. Wire-tie. No. 1,015,513; Jan. 23; Sp. p. 5345; Gaz. vol. 174; p. 917.
Sanders, John W., El Dorado, Ark. Wheel. No. 1,035,748; Aug. 13; Gaz. vol. 181; p. 485.
Sanders, Louis, New York, N. Y. Belt-buckle. No. 1,035,643; Aug. 13; Gaz. vol. 181; p. 451.
Sanders, Louis, Cravens, La. Spring-wheel. No. 1,040,426; Oct. 8; Gaz. vol. 183; p. 283.
Sanders, Marion, assignor of one-half to G. Lynch, Poplar Bluff, Mo. Steam-pipe shield. No. 1,039,818; Oct. 1; Gaz. vol. 183; p. 50.

Alphabetical list of patentees—Continued.

Sanders, Ruffus H., Sacramento, Cal. Independent rail brace and lock. No. 1,021,268; Mar. 26; Sp. p. 4804; Gaz. vol. 176; p. 877.
Sanders, Samuel P., assignor of one-half to C. C. Grosshans, Aurora, Nebr. Spring-wheel. No. 1,017,919; Feb. 20; Sp. p. 3758; Gaz. vol. 175; p. 653.
Sanders, Thomas R., Hyde Park, assignor to B. F. Sturtevant Company, Boston, Mass. Elastic-fluid turbine. No. 1,038,972; Sept. 17; Gaz. vol. 182; p. 677.
Sanders, William M., Cincinnati, Ohio. Nut-lock. No. 1,042,484; Oct. 29; Gaz. vol. 183; p. 1079.
Sanders, William R., assignor of one-half to J. W. Harvey, Sunset, Tex. Steam-engine. No. 1,028,840; June 4; Sp. p. 1661; Gaz. vol. 179; p. 259.
Sanderson, Burton C., H. D. Palmer, and A. R. Hodges, Topeka, Kans. Feeding device for pneumatic tools. No. 1,046,861; Dec. 10; Gaz. vol. 185; p. 409.
Sanderson, Edward S., Waterbury, Conn., assignor, by mesne assignments, to Welsbach Light Company. Gas-burner. No. 1,014,777; Jan. 16; Sp. p. 3758; Gaz. vol. 174; p. 639.
Sanderson, George B., Oakland, Cal. Combined folding ironing-board and step-ladder. No. 1,043,734; Nov. 5; Gaz. vol. 184; p. 242.
Sanderson, Harold W., Chiswick, England. Apparatus for use in the production of printed and embossed wall-papers and the like. No. 1,041,678; Oct. 15; Gaz. vol. 183; p. 741.
Sanderson, William J., assignor of one-third to A. L. H. Hinrichsen and one-third to C. W. Hadcock, Birmingham, Ala. Adjustable taper-boring device. No. 1,046,496; Dec. 10; Gaz. vol. 185; p. 282.
Sandfield, Michael, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Coil-forming apparatus. No. 1,037,998; Sept. 10; Gaz. vol. 182; p. 309.
Sandford, George B. H. (See Boothby, William T., assignor.)
Sandford, William E. (See Mark and Sandford.)
Sandgren, Eric S., and C. F. Case, assignors to Oliver Motor Car Company, Detroit, Mich. Motor-vehicle. No. 1,020,518; Mar. 19; Sp. p. 3194; Gaz. vol. 176; p. 573.
Sandiford, Thomas M., assignor to The Automatic Gas Pressure Lamp Lighter Company Limited, Masterton, New Zealand. Apparatus for lighting and extinguishing gas-lamps. No. 1,035,477; Aug. 13; Gaz. vol. 181; p. 395.
Sandreczki, Karl T. (See Massohn and Sandreczki.)
Sandrik, Charles J., East Pittsburgh, Pa. Vehicle-wheel. No. 1,020,450; Mar. 19; Sp. p. 3053; Gaz. vol. 176; p. 553.
Sands, George G., New York, N. Y. Curtain-fixture. No. 1,046,862; Dec. 10; Gaz. vol. 185; p. 409.
Sands, John M., *et al.* (See Jarvis, Herbert L., assignor.)
Sands Limited. (See Stanley, George H., assignor.)
Sands, Philip H., Lochgelly, Scotland. Dental apparatus for removing wax from the teeth. No. 1,031,737; July 9; Gaz. vol. 180; p. 351.
Sandstrom, Frank A., assignor of one-half to F. Benjamin, Chicago, Ill. Electric soldering-iron. No. 1,045,615; Nov. 26; Gaz. vol. 184; p. 987.
Sandt, Julius, Pirmasens, Germany. Press provided with an oscillating pressing-arm. No. 1,024,423; Apr. 23; Sp. p. 5701; Gaz. vol. 177; p. 992.
Sandusky Foundry & Machine Company, The. (See Farnsworth, Niland R., assignor.)
Sandwich Electric Company. (See Dildine and Rugh, assignors.)
Sandwich Electric Company. (See Rugh, Harry O., assignor.)
Sandwich Electric Company. (See Rugh and Rhoads, assignors.)
Sandy, Frank D. (See Rickert, Roy M., assignor.)
Sandycroft Foundry Company Limited. (See Gott, Joseph B., assignor.)
Saner, Thomas B., Clifton, Ariz., assignor to The Stanley Rule & Level Company, New Britain, Conn. Router-plane cutter. No. 1,026,053; May 14; Sp. p. 2123; Gaz. vol. 178; p. 360.
Sanford, Andrew J. (See Heisey and Sanford.)
Sanford, Andrew J., assignor to A. H. Heisey & Co., Inc., Newark, Ohio. Bowl. No. 1,021,004; Mar. 26; Sp. p. 4250; Gaz. vol. 176; p. 789.
Sanford Clarifying and Separating Company. (See Sanford, George E., assignor.)
Sanford, Frank W. (See Wirt and Sanford.)
Sanford, George E., Chicago, Ill., assignor, by mesne assignments, to Sanford Clarifying and Separating Company. Liquid-separator. No. 1,016,366; Feb. 6; Sp. p. 281; Gaz. vol. 175; p. 45.
Sanford, Henry W., Washington, D. C. Surgical kit. No. 1,025,207; May 7; Sp. p. 216; Gaz. vol. 178; p. 36.
Sanford, Hugh W., Knoxville, Tenn. Wheel construction. No. 1,031,590; July 2; Gaz. vol. 180; p. 256.
Sanford, James A., Jackson, Mich. Bottle-machine. No. 1,019,533; Mar. 5; Sp. p. 1203; Gaz. vol. 176; p. 178.
Sanford, Leverett A., Bristol, Conn., assignor to E. J. Millspaugh and J. F. Maynard, Utica, N. Y. Lubricating device. No. 1,017,020; Feb. 13; Sp. p. 1748; Gaz. vol. 175; p. 305.
Sanford, Melvin E., Cedar Springs, assignor of one-third to J. H. Worden, Antigo, and one-third to C. Faust, Oshkosh, Wis. Skeleton column. No. 1,024,910; Apr. 30; Sp. p. 6817; Gaz. vol. 177; p. 1199.
Sanford, William R., New York, N. Y., assignor to Ventilating Shade Fixture Co. Window-shade bracket. No. 1,042,148; Oct. 22; Gaz. vol. 183; p. 937.
Sangamo Electric Company. (See Bard, Jacob W., assignor.)
Sangamo Electric Company. (See Hodde, Jacob H., assignor.)
Sangamo Electric Company. (See Lanphier, Robert C., assignor.)
Sanger, Frank, *et al.* (See Troxler, Gustavus, assignor.)
Sanguinetti, Louis F. (See Hamilton, Ulysses G., assignor.)
Sanitary Bottling Device Company. (See Lindahl, Erick P., assignor.)
Sanitary Brick Company, The, *et al.* (See Malinovszky, Andrew, assignor.)
Sanitary Can Company. (See Wegner and Peters, assignors.)
Sanitary Can Machinery Company. (See Brenzinger, Julius, assignor.) (Reissue.)
Sanitary Drinking Cup Company. (See Bliss, Alfred M., assignor.)
Sanitary Fountain and Vending Machine Company, The. (See Robbins, Rolland, assignor.)
Sanitary Paper Bottle Company. (See Nazel, John, assignor.)
Sanitary Service Company. (See Downey, Richard F., assignor.)
Sanitary Steel Couch Company. (See Ennis, Parry E., assignor.)
Sanitary Steel Couch Company. (See Grotenhuis, William J., assignor.)
Sanitax Brush Company. (See Montgomery and Hill, assignors.)
Sanna, Salvatore, Olinghouse, Nev. Elevator-clutch. No. 1,031,470; July 2; Gaz. vol. 180; p. 217.
Sanna, Salvatore, Olinghouse, Nev. Duplex rotary steam-turbine. No. 1,032,300; July 9; Gaz. vol. 180; p. 542.
Sanner, Harry W., Baltimore, Md. Conveyer. No. 1,015,086; Jan. 16; Sp. p. 4433; Gaz. vol. 174; p. 746.
Sanor, John H., and E. W. Conkell, Canton, Ohio; said Conkell assignor to said Sanor. Electric signal and train control. No. 1,039,324; Sept. 24; Gaz. vol. 182; p. 814.
Sanphy, Vincent, South Bend, Wash. Hose-coupling. No. 1,024,285; Apr. 23; Sp. p. 5419; Gaz. vol. 177; p. 949.
Sanphy, Vincent, South Bend, Wash. Vehicle-wheel. No. 1,032,863; July 16; Gaz. vol. 180; p. 778.
Sanseviere, Vincenzo, Brooklyn, N. Y. Chalk-holder. No. 1,049,152; Dec. 31; Gaz. vol. 185; p. 1295.
Santala, Wilhelm T., Georgetown, Conn. Windmill. No. 1,049,274; Dec. 31; Gaz. vol. 185; p. 1336.
Santilli, Angelo, assignor to G. Moretto, New York, N. Y. Tool for handling electric globe-lamps. No. 1,024,286; Apr. 23; Sp. p. 5419; Gaz. vol. 177; p. 949.
Santoiemma, Giovanni, New York, N. Y. Treadle-shifting mechanism for piano-players and the like. No. 1,048,351; Dec. 24; Gaz. vol. 185; p. 980.
Santos, John. (See Brand and Santos.)
Sapp, Isaac H., Cheyenne, Wyo. Snare-drum. No. 1,032,508; July 16; Gaz. vol. 180; p. 657.
Sapp, Julius B., Cleveland, Ohio. Obtunder. No. 1,027,216; May 21; Sp. p. 4727; Gaz. vol. 178; p. 794.
Sapp, William A., Elgin, Nebr. Dirigible light-support. No. 1,029,514; June 11; Sp. p. 3130; Gaz. vol. 179; p. 525.
Sapper, Charles H., Newburgh, N. Y. Top. No. 1,016,960; Feb. 13; Sp. p. 1626; Gaz. vol. 175; p. 285.
Sappington, Merrick W., and E. S. Hornbeck, Winchester, Ill. Front driving and steering mechanism for motor-vehicles. No. 1,048,213; Dec. 24; Gaz. vol. 185; p. 935.
Sarason, Leopold, Hirschgarten, and S. Haller, Grünau, Germany; said Haller assignor to said Sarason. Producing effervescent baths. No. 1,041,357; Oct. 15; Gaz. vol. 183; p. 635.
Sardou, Freeman, Topeka, Kans. Steamer. No. 1,033,274; July 23; Gaz. vol. 180; p. 956.
Sare, Storm B., Abilene, Kans. Oil-burner. No. 1,041,517; Oct. 15; Gaz. vol. 183; p. 688.
Sargeant, Stephen D., assignor of two-thirds to J. F. Riley, Charleston, S. C. Tube-cleaner. No. 1,022,974; Apr. 9; Sp. p. 2612; Gaz. vol. 177; p. 444.
Sargent, Allan C., Westford, Mass. Valve-truing tool. No. 1,044,254; Nov. 12; Gaz. vol. 184; p. 453.
Sargent, Allan C., Westford, assignor to C. G. Sargent's Sons Corporation, Graniteville, Mass. Making toothed-wire-covered cylinders. No. 1,016,098; Jan. 30; Sp. p. 6610; Gaz. vol. 174; p. 1148.
Sargent, Allan C., Westford, assignor to C. G. Sargent's Sons Corporation, Graniteville, Mass. Vat-heater. No. 1,026,704; May 21; Sp. p. 3547; Gaz. vol. 178; p. 619.
Sargent & Co. (See Kimball and Daum, assignors.)
Sargent & Co. (See Shaw, John H., assignor.)
Sargent & Co. (See Shaw and Kimball, assignors.)
Sargent & Company. (See Carroll, William J., assignor.)

Alphabetical list of patentees—Continued.

Sargent & Company. (See Collins, Herbert G., assignor.)
Sargent & Company. (See Escamilla, Simon, assignor.)
Sargent & Company. (See Page, Albert A., assignor.)
Sargent & Company. (See Sargent, Edward R., assignor.)
Sargent & Company. (See Sparks, William E. and O. F., assignors.)
Sargent, Edgar H., *et al.* (See Bresee, Wright D., assignor.)
Sargent, Edward R., assignor to Sargent & Company, New Haven, Conn. Casket-handle. No. 1,030,434; June 25; Sp. p. 5177; Gaz. vol. 179; p. 921.
Sargent, Everett L., Patten, Me. Canoe attachment. No. 1,041,679; Oct. 15; Gaz. vol. 183; p. 741.
Sargent, Fitz William, Mahwah, N. J., assignor to E. H. Fallows, New York, N. Y. Brake-shoe. No. 1,026,928; May 21; Sp. p. 4056; Gaz. vol. 178; p. 695.
Sargent, Fitz William, Mahwah, N. J., assignor to E. H. Fallows, New York, N. Y. Brake-shoe. No. 1,026,929; May 21; Sp. p. 4058; Gaz. vol. 178; p. 696.
Sargent, Fitz William, Mahwah, N. J., assignor to E. H. Fallows, New York, N. Y. Composite-face brake-shoe. No. 1,030,491; June 25; Sp. p. 5311; Gaz. vol. 179; p. 941.
Sargent, Frank J., Medina, Ohio. Landing-net holder. No. 1,024,653; Apr. 30; Sp. p. 6289; Gaz. vol. 177; p. 1108.
Sargent, Frederick, Chicago, Ill., and D. S. Jacobus, Jersey City, assignors to The Babcock & Wilcox Company, Bayonne, N. J. Boiler-economizer. No. 1,048,739; Dec. 31; Gaz. vol. 185; p. 1153.
Sargent, Frederick G., Westford, Mass. Detector. No. 1,013,223; Jan. 2; Sp. p. 298; Gaz. vol. 174; p. 47.
Sargent, Frederick G., Westford, assignor to C. G. Sargent's Sons Corporation, Graniteville, Mass. Self-lubricating loose pulley or wheel. No. 1,017,810; Feb. 20; Sp. p. 3489; Gaz. vol. 175; p. 613.
Sargent, Frederick G., Westford, assignor to C. G. Sargent's Sons Corporation, Graniteville, Mass. Rake-driving mechanism. No. 1,047,117; Dec. 10; Gaz. vol. 185; p. 494.
Sargent, Howard R., Schenectady, N. Y., assignor to General Electric Company. Electric cut-out. No. 1,014,854; Jan. 16; Sp. p. 3945; Gaz. vol. 174; p. 668.
Sargent, John L., Indianola, Nebr. Crusher or grinder. No. 1,044,255; Nov. 12; Gaz. vol. 184; p. 453.
Sargent, John W., Providence, R. I. Engine-governor. No. 1,020,225; Mar. 12; Sp. p. 2606; Gaz. vol. 176; p. 442.
Sargent, Ledyard W. (See Morse and Sargent.)
Sargent, Samuel M., Wichita, Kans. Contractible umbrella. No. 1,047,450; Dec. 17; Gaz. vol. 185; p. 643.
Sargent, William D. (See Helmes, Maximilian J., assignor.)
Sargent, William P., assignor to The Curtis Publishing Company, Philadelphia, Pa. Mail-bag holder. No. 1,019,366; Mar. 5; Sp. p. 833; Gaz. vol. 176; p. 124.
Sargent, William P., assignor to The Curtis Publishing Company, Philadelphia, Pa. Magazine-mailing machine. No. 1,024,028; Apr. 23; Sp. p. 4837; Gaz. vol. 177; p. 858.
Sargent, William P., assignor to The Curtis Publishing Company, Philadelphia, Pa. Book-feeder. No. 1,033,951; July 30; Gaz. vol. 180; p. 1208.
Sargent, William P., assignor to The Curtis Publishing Company, Philadelphia, Pa. Label-paster. No. 1,048,214; Dec. 24; Gaz. vol. 185; p. 935.
Sarkisian, Arakeal H., Bridgewater, Mass. Cigarette-making machine. No. 1,040,772; Oct. 8; Gaz. vol. 183; p. 405.
Sarrazin, Jules J., New Orleans, La. Tooth-brush. No. 1,018,927; Feb. 27; Sp. p. 5970; Gaz. vol. 175; p. 1029.
Sarrazin, Jules J., New Orleans, La. Tooth-brush. No. 1,048,740; Dec. 31; Gaz. vol. 185; p. 1153.
Sarres, William J., *et al.* (See Wiese, Theodore L., assignor.)
Sarsfield, Timothy B., Penns Station, assignor of one-half to W. C. Kent, Pittsburgh, Pa. Lubricating or oiling device. No. 1,030,129; June 18; Sp. p. 4473; Gaz. vol. 179; p. 773.
Sartori, Joseph, Revere, Mass. Safety-spike. No. 1,035,644; Aug. 13; Gaz. vol. 181; p. 451.
Sartorial Pattern Company of Philadelphia. (See Peterson, Erick H., assignor.)
Sass, George W., Minneapolis, Minn. Metallic shoe. No. 1,028,610; June 4; Sp. p. 1187; Gaz. vol. 179; p. 181.
Sasseman, David C., River Forest, assignor to F. H. Smith Manufacturing Company, Chicago, Ill. Button-setting machine. No. 1,020,058; Mar. 12; Sp. p. 2232; Gaz. vol. 176; p. 385.
Sasseman, David C., River Forest, assignor to F. H. Smith Manufacturing Company, Chicago, Ill. Spot-setting machine. No. 1,041,884; Oct. 22; Gaz. vol. 183; p. 850.
Sassil, Eugene H., St. Louis, Mo. Multiplane airship. No. 1,024,287; Apr. 23; Sp. p. 5421; Gaz. vol. 177; p. 950.
Satin, Jacob, Brooklyn, N. Y. Garment-form. No. 1,018,377; Feb. 20; Sp. p. 4731; Gaz. vol. 175; p. 810.
Sato, Ryuji, and Y. Saito, Chicago, Ill. Railway-car. No. 1,027,071; May 21; Sp. p. 4418; Gaz. vol. 178; p. 747.
Satter, Frank A., Chili Center, assignor of one-third to J. Cohen and one-third to J. Cohen, Rochester, and one-third to F. A. Satter, Chili Center, N. Y. Safety-lamp. No. 1,044,256; Nov. 12; Gaz. vol. 184; p. 454.
Sätterström, Algot, Grillby, assignor to Grillby Metallfabrik, Stockholm, Sweden. Distributing apparatus for liquids. No. 1,038,444; Sept. 10; Gaz. vol. 182; p. 461.
Satterthwaite, Joseph N., assignor to Empire Tire Company, Trenton, N. J. Apparatus for making tires. No. 1,035,749; Aug. 13; Gaz. vol. 181; p. 485.
Sattler, Carl, Steglitz, Berlin, Germany. Machine for nailing uppers to soles. No. 1,023,337; Apr. 16; Sp. p. 3399; Gaz. vol. 177; p. 606.
Sattler, Frederick, Belleville, Ill. Gas-stove. No. 1,013,224; Jan. 2; Sp. p. 300; Gaz. vol. 174; p. 48.
Sattler, Frederick, Belleville, Ill. Gas-stove. No. 1,013,318; Jan. 2; Sp. p. 513; Gaz. vol. 174; p. 81.
Sattler, Herman J., Easton, Pa. Let-off. No. 1,019,993; Mar. 12; Sp. p. 2106; Gaz. vol. 176; p. 363.
Sattley, Clyde A., Indianapolis, assignor to Sattley Machinery Company, Indianapolis, Ind. Corn-harvesting machine. No. 1,030,615; June 25; Sp. p. 5726; Gaz. vol. 179; p. 987.
Sattley Coin Handling Machine Company. (See Sattley, Frederick L., assignor.)
Sattley, Frederick L., assignor of one-half to C. Stanley, Indianapolis, Ind. Coin sorter and counter. No. 1,028,611; June 4; Sp. p. 1188; Gaz. vol. 179; p. 182.
Sattley, Frederick L., Indianapolis, Ind., assignor, by mesne assignments, to Sattley Coin Handling Machine Company, Detroit, Mich. Coin-packaging machine. No. 1,047,304; Dec. 17; Gaz. vol. 185; p. 594.
Sattley, Frederick L., Indianapolis, Ind., assignor, by mesne assignments, to Sattley Coin Handling Machine Company, Detroit, Mich. Coin-handling machine. No. 1,047,305; Dec. 17; Gaz. vol. 185; p. 595.
Sattley Machinery Company. (See Sattley, Clyde A., assignor.)
Saucedo, Marshall, San Francisco, Cal. Sidewalk-box cover. No. 1,029,719; June 18; Sp. p. 3592; Gaz. vol. 179; p. 634.
Sauer, Frederick H., New York, N. Y. Filter. No. 1,045,616; Nov. 26; Gaz. vol. 184; p. 987.
Sauer, Gustave A., *et al.* (See Evers, Emile E., assignor.)
Sauer, Joseph, Kersey, Pa. Rail-joint. No. 1,043,735; Nov. 5; Gaz. vol. 184; p. 242.
Sauer, Ludwig, Kitzingen, Germany. Sand-blast apparatus. No. 1,032,777; July 16; Gaz. vol. 180; p. 750.
Sauerstoff-Industrie Aktiengesellschaft. (See Pictet, Raoul P., assignor.)
Saul, Warren A., Bridgeport, Conn. Railway-tie. No. 1,014,726; Jan. 16; Sp. p. 3644; Gaz. vol. 174; p. 623.
Sauleiko, John M., St. Charles, Ill. Door-lock. No. 1,019,844; Mar. 12; Sp. p. 1787; Gaz. vol. 176; p. 313.
Sault, William A., Worcester, Mass. Air track-sanding apparatus. No. 1,028,079; May 28; Sp. p. 6563; Gaz. vol. 178; p. 1120.
Saum, Robert J., assignor to The Western Tool and Manufacturing Company, Springfield, Ohio. Expanding mandrel. No. 1,019,920; Mar. 12; Sp. p. 1960; Gaz. vol. 176; p. 340.
Saunders, Arthur W., and C. O'Neil, Lowell, Mass. Loom-shuttle. No. 1,042,282; Oct. 22; Gaz. vol. 183; p. 981.
Saunders, Augustus M., McKeesport, assignor to National Tube Company, Pittsburgh, Pa. Gasket-setting mechanism. No. 1,036,913; Aug. 27; Gaz. vol. 181; p. 953.
Saunders, Augustus M., McKeesport, and F. N. Speller, assignors to National Tube Company, Pittsburgh, Pa. Apparatus for testing tubes. No. 1,036,912; Aug. 27; Gaz. vol. 181; p. 952.
Saunders, Augustus M., and O. M. Mowat, McKeesport, assignors to National Tube Company, Pittsburgh, Pa. Thread-cutting machine. No. 1,040,583; Oct. 8; Gaz. vol. 183; p. 340.
Saunders, Charles, A. A. Rupprecht, and E. L. Grant, London, England. Internal-combustion engine. No. 1,046,863; Dec. 10; Gaz. vol. 185; p. 410.
Saunders, Daniel G., Jr., Kansas City, Mo., assignor, by mesne assignments, to The Saunders Sealer Company, Cleveland, Ohio. Envelop moistener and sealer. No. 1,034,933; Aug. 6; Gaz. vol. 181; p. 178.
Saunders, David R., Columbus, Miss. Car-heater. No. 1,039,819; Oct. 1; Gaz. vol. 183; p. 50.
Saunders, Fred B., Orange, Mass. Vacuum-creator. No. 1,017,691; Feb. 20; Sp. p. 3178; Gaz. vol. 175; p. 572.
Saunders, Lee C., *et al.* (See Messenger, Isaiah L., assignor.)
Saunders, Leslie R., Los Angeles, Cal. Syringe with electric attachment. No. 1,030,543; June 25; Sp. p. 5461; Gaz. vol. 179; p. 960.
Saunders, Lewis E., Niagara Falls, N. Y., assignor to Norton Company, Worcester, Mass. Article of alumina and making same. No. 1,037,999; Sept. 10; Gaz. vol. 182; p. 310.
Saunders Sealer Company, The. (See Saunders, Daniel G., Jr., assignor.)
Saunders, Wade H., Roanoke, Va. Bird-call. No. 1,034,307; July 30; Gaz. vol. 180; p. 1331.
Saunders, Waldo E., La Cygne, Kans. Awning. No. 1,033,198; July 23; Gaz. vol. 180; p. 930.
Saunders, William A., Jamaica Plain, Mass. Carcass-splitting machine. No. 1,015,590; Jan. 23; Sp. p. 5521; Gaz. vol. 174; p. 945.
Saunders, William H., New York, N. Y. Nursing-bottle support. No. 1,043,630; Nov. 5; Gaz. vol. 184; p. 208.

Alphabetical list of patentees—Continued.

Saur, John, Jr., assignor to Beach Manufacturing Company, Montrose, Pa. Metal-edge-box machine. No. 1,044,257; Nov. 12; Gaz. vol. 184; p. 454.
Saurenmann, Jacob G., assignor of one-half to G. Gerlach, Canadian, Tex. Compressed-air-machine. No. 1,023,041; Apr. 9; Sp. p. 2736; Gaz. vol. 177; p. 467.
Saurer, Firm of Adolph. (See Keller, Karl, assignor.)
Saurer, Firm of Adolph. (See Mayer, Heinrich, assignor.)
Saurer, Hyppolyt, Arbon, Switzerland. Speed-regulating device for automobiles and the like. (Reissue.) No. 13,348; Jan. 2; Sp. p. 1696; Gaz. vol. 174; p. 268.
Sausser, John M., Osnaburg, Ohio. Door-bolting device. No. 1,013,820; Jan. 2; Sp. p. 1588; Gaz. vol. 174; p. 253.
Sauter, Alfred B., and H. E. Wehner, Chicago, Ill. Window-cleaning device. No. 1,042,283; Oct. 22; Gaz. vol. 183; p. 981.
Sauter, Emil, Essen-on-the-Ruhr, Germany. Shearing-machine. No. 1,037,056; Aug. 27; Gaz. vol. 181; p. 1002.
Sauter, Emil, Essen-on-the-Ruhr, Germany. Shearing-machine. No. 1,045,802; Nov. 26; Gaz. vol. 184; p. 1051.
Sauvage, William H., New York, N. Y. Slack-adjuster for railway-brakes. No. 1,020,519; Mar. 19; Sp. p. 3196; Gaz. vol. 176; p. 573.
Sauvage, William H., New York, N. Y. Brake-rigging. (Reissue.) No. 13,386; Mar. 19; Sp. p. 4144; Gaz. vol. 176; p. 723.
Sauvage, William H., assignor of one-half to V. S. Manson, New York, N. Y. Safety device for fluid-pressure brake systems. No. 1,013,821; Jan. 2; Sp. p. 1591; Gaz. vol. 174; p. 254.
Sauvan, Charles H., Newark, N. J. Gas-engine. No. 1,013,619; Jan. 2; Sp. p. 1147; Gaz. vol. 174; p. 183.
Sauve, John B. (See Bernardi and Sauve.)
Sauveur, Harry. (See Jordan and Sauveur.)
Sauvola, Gustaf, Astoria, Oreg. Conveying apparatus. No. 1,030,749; June 25; Sp. p. 6069; Gaz. vol. 179; p. 1034.
Savage, Alva L., Dermott, Ark. Beveling-plane. No. 1,021,631; Mar. 26; Sp. p. 5578; Gaz. vol. 176; p. 1002.
Savage Arms Company. (See Chadwick, Francis C., assignor.)
Savage, Arthur J., Utica, N. Y., assignor to Sears, Roebuck & Co., Chicago, Ill. Firearm. No. 1,019,367; Mar. 5; Sp. p. 835; Gaz. vol. 176; p. 125.
Savage, Basil H., Duarte, Cal., assignor to Sears, Roebuck & Co., Chicago, Ill. Firearm. No. 1,027,773; May 28; Sp. p. 5847; Gaz. vol. 178; p. 1018.
Savage, Charles P. (See Silver, Jesse W., assignor.)
Savage, Elizabeth J., administratrix. (See Robinson, Thomas C.)
Savage, Frederick W., *et al.* (See Graves, Eugene A., assignor.)
Savage, George, Hamilton, Wash. Sun and rain protector. No. 1,018,522; Feb. 27; Sp. p. 5120; Gaz. vol. 175; p. 892.
Savage, George E., assignor to Manning, Bowman & Company, Meriden, Conn. Chafing-dish stand. No. 1,030,019; June 18; Sp. p. 4248; Gaz. vol. 179; p. 735.
Savage, George E., and L. H. Wilkinson, assignors to Manning, Bowman & Company, Meriden, Conn. Percolating device. No. 1,026,930; May 21; Sp. p. 4060; Gaz. vol. 178; p. 696.
Savage, Harlow D., Ashland, Ky. Baffle-wall for locomotive fire-boxes. No. 1,030,258; June 18; Sp. p. 4755; Gaz. vol. 179; p. 818.
Savage, Harlow D., Ashland, Ky. Baffle-wall for locomotive fire-boxes. No. 1,033,952; July 30; Gaz. vol. 180; p. 1208.
Savage, Harlow D., Ashland, Ky. Baffle-wall for locomotive fire-boxes. No. 1,033,953; July 30; Gaz. vol. 180; p. 1209.
Savage, Hiram B., Spokane, Wash. Clutch. No. 1,039,595; Sept. 24; Gaz. vol. 182; p. 909.
Savage, Lee. (See Dillon and Savage.)
Savage, Lillian M., Baltimore, Md. Skirt. No. 1,037,331; Sept. 3; Gaz. vol. 182; p. 51.
Savage, Linnaeus T., New York, N. Y. Coin-tray. No. 1,022,442; Apr. 9; Sp. p. 1458; Gaz. vol. 177; p. 262.
Savage, Richard J., and C. E. Schultz, Chicago, Ill. Candy-making machine. No. 1,040,427; Oct. 8; Gaz. vol. 183; p. 284.
Savage, Walter E., *et al.* (See Graf, Richard, assignor.)
Saver Clutch Company Limited, The. (See Drake and Hewitt, assignors.)
Savignac. George S., and C. E. Myers, assignors to W. G. Battle, C. E. Clark, and T. W. Fuqua, St. Louis, Mo. Sewing-machine. No. 1,016,898; Feb. 6; Sp. p. 1460; Gaz. vol. 175; p. 226.
Savignac, George S., and C. E. Myers, assignors to W. G. Battle, C. E. Clark, and T. W. Fuqua, St. Louis, Mo. Loop-lock-stitch-forming mechanism. No. 1,016,899; Feb 6; Sp. p. 1469; Gaz. vol. 175; p. 227.
Savignac, George S., and C. E. Myers, assignors to W. G. Battle, C. E. Clark, and T. W. Fuqua, St. Louis, Mo. Take-up and thread-measurer for sewing-machines. No. 1,016,900; Feb. 6; Sp. p. 1474; Gaz. vol. 175; p. 228.
Savignac, George S., and C. E. Myers, assignors to W. G. Battle, C. E. Clark, and T. W. Fuqua, St. Louis, Mo. Thread-treating device for sewing-machines. No. 1,016,901; Feb. 6; Sp. p. 1479; Gaz. vol. 175; p. 228.
Savignac, George S., and C. E. Myers, assignors to W. G. Battle, C. E. Clark, and T. W. Fuqua, St. Louis, Mo. Presser-foot for sewing-machines. No. 1,016,902; Feb. 6; Sp. p. 1482; Gaz. vol. 175; p. 229.
Savinkoff, Wassil, Kamsack, Saskatchewan, Canada. Tool. No. 1,043,255; Nov. 5; Gaz. vol. 184; p. 74.
Savino, Guy, Scranton, Pa. Valve. No. 1,049,153; Dec. 31; Gaz. vol. 185; p. 1296.
Savoie, Joseph, Central Falls, R. I. Tire-protector. No. 1,024,458; Apr. 23; Sp. p. 5771; Gaz. vol. 177; p. 1004.
Savory, Ernest W., Bristol, and A. F. Battey, Wimbledon, England. Die-stamping press. No. 1,043,362; Nov. 5; Gaz. vol. 184; p. 114.
Savosick, Stanislaw, Ipswich, Mass. Feed-bag. No. 1,029,320; June 11; Sp. p. 2715; Gaz. vol. 179; p. 459.
Savoy, Edward, Chapel Hill, Tex. Rail-joint. No. 1,021,632; Mar. 26; Sp. p. 5579; Gaz. vol. 176; p. 1002.
Savoy, Edward, Chapel Hill, Tex. Mold for making well-curbing. No. 1,041,358; Oct. 15; Gaz. vol. 183; p. 636.
Savy, Emile L. A., Paris, France. Apparatus for treating pasty materials, such as chocolate. No. 1,037,545; Sept. 3; Gaz. vol. 182; p. 125.
Saweljew, Michael, assignor to A. Siabloff, St. Petersburg, Russia. Link distributing-gear. No. 1,019,921; Mar. 12; Sp. p. 1962; Gaz. vol. 176; p. 340.
Sawicki, Adam, Scranton, Pa. Nail holding and delivering apparatus. No. 1,046,497; Dec. 10; Gaz. vol. 185; p. 282.
Sawtell, Albert H., Medford, assignor to J. K. Lanning, Boston, Mass. Movable-lease-rod support. No. 1,022,382; Apr. 2; Sp. p. 1307; Gaz. vol. 177; p. 211.
Sawtelle, Charles A., Sacramento, Cal. Fluid-clutch. No. 1,035,478; Aug. 13; Gaz. vol. 181; p. 395.
Sawyer, Augustus E. (See Ranson, George, Jr., assignor.)
Sawyer, Clifford B. (See Ruel, St. Aubin, Dyer, and Sawyer.)
Sawyer, Edward H., Jr., assignor of one-fourth to L. E. Smith and one-fourth to H. H. Geiglein, Baltimore, Md. Bowling-alley pin. No. 1,030,834; June 25; Sp. p. 6392; Gaz. vol. 179; p. 1065.
Sawyer, Ezra H., Vineland, N. J., and M. Fels, Philadelphia, Pa. Corer for tomatoes and other vegetables. No. 1,016,039; Jan. 30; Sp. p. 6478; Gaz. vol. 174; p. 1127.
Sawyer, Frederic R., Malden, Mass. Twine-reel. No. 1,039,820; Oct. 1; Gaz. vol. 183; p. 51.
Sawyer, Harry, and N. Whichello, Muskegon, Mich. Monorail-track switch. No. 1,047,451; Dec. 17; Gaz. vol. 185; p. 644.
Sawyer, Lawrence T., Newton, Mass. Closure for weather-proof garments. No. 1,028,908; June 11; Sp. p. 1826; Gaz. vol. 179; p. 317.
Sawyer, Walter H., Wichita, Kans. Menu-card holder. No. 1,014,908; Jan. 16; Sp. p. 4056; Gaz. vol. 174; p. 685.
Sawyer, William, Armstrong, British Columbia, Canada. Sash-balancing device. No. 1,014,182; Jan. 9; Sp. p. 2417; Gaz. vol. 174; p. 405.
Saxon, Fred, Fredericktown, Pa. Portable tipple. No. 1,046,864; Dec. 10; Gaz. vol. 185; p. 410.
Saxton, Lionel D., New York, N. Y. Safety-razor-stropping device. No. 1,017,325; Feb. 13; Sp. p. 2430; Gaz. vol. 175; p. 412.
Saxton, Lionel D., New York, N. Y. Safety-razor. No. 1,048,893; Dec. 31; Gaz. vol. 185; p. 1207.
Saxton, Oliver G. (See Carlson and Saxton.)
Say, James, York, England. Gear-wheel. No. 1,028,909; June 11; Sp. p. 1828; Gaz. vol. 179; p. 318.
Saybolt, George M., Jersey City, N. J., assignor to Standard Oil Company, New York, N. Y. Apparatus for oiling roads. No. 1,033,038; July 16; Gaz. vol. 180; p. 835.
Sayer, Edmund S., Manila, Philippine Islands. Canteen. No. 1,032,086; July 9; Gaz. vol. 180; p. 468.
Sayer, Robert C., Redland, Bristol, England. Aerostatics. No. 1,019,368; Mar. 5; Sp. p. 842; Gaz. vol. 176; p. 125.
Sayers, Charlotte, Syracuse, N. Y. Hose-supporter. No. 1,022,267; Apr. 2; Sp. p. 1082; Gaz. vol. 177; p. 173.
Sayers and Scovill Company, The. (See Meyer, John M., assignor.)
Saylor, John R., Pottstown, Pa. Device for cutting screw-threads. No. 1,040,022; Oct. 1; Gaz. vol. 183; p. 117.
Saylor, John R., Pottstown, Pa. Turret-machine for reaming and tapping. No. 1,048,352; Dec. 24; Gaz. vol. 185; p. 981.
Sayres, George F., Stokesville, Va. Paint-remover. No. 1,047,572; Dec. 17; Gaz. vol. 185; p. 689.
Scaife, Jamieson V., McComb, Miss. Gage-cock. No. 1,031,380; July 2; Gaz. vol. 180; p. 186.
Scales, Clyde A. (See Calahan, Delona L., assignor.)
Scanlan, James, Adell, Wis. Self-closing oven-door. No. 1,041,175; Oct. 15; Gaz. vol. 183; p. 574.
Scanlan Morris Co. (See Grady, William R., assignor.)
Scanlan, Robert M., assignor of one-half to J. B. Shepler, Toledo, Ohio. Multiple-ply-paper-board-making machine. No. 1,018,588; Feb. 27; Sp. p. 5272; Gaz. vol. 175; p. 916.

Alphabetical list of patentees—Continued.

Scanlon, James A., assignor to Bender Shoe Company, Lynn, Mass. Making boots and shoes. No. 1,034,035; July 30; Gaz. vol. 180; p. 1239.
Scanlon, Michael L., Cleveland, Ohio. Combination gas and coal grate. No. 1,043,871; Nov. 12; Gaz. vol. 184; p. 320.
Scaramucci, Joseph, assignor of one-third to A. Guidarelli, Belmont, N. Y. Cattle-stanchion. No. 1,031,091; July 2; Gaz. vol. 180; p. 86.
Scarborough, Henry, Sr. (See Krause, Hermann, assignor.)
Scarff, Tully J., New Carlisle, Ohio. Necktie-guide. No. 1,033,200; July 23; Gaz. vol. 180; p. 930.
Scarlet, Maurice H. (See Midgley and Scarlet.)
Scarlett, William S., Fall River, Mass. Safety device for ships. No. 1,016,781; Feb. 6; Sp. p. 1229; Gaz. vol. 175; p. 189.
Scarritt, Charles H. (See Taylor, Calvin C., assignor.)
Scelza, Frank, Harrison, N. Y. Door-jamb setter. No. 1,017,811; Feb. 20; Sp. p. 3491; Gaz. vol. 175; p. 614.
Schaaff, John T., Washington, D. C. Type-writer and other key-controlled machine. No. 1,040,584; Oct. 8; Gaz. vol. 183; p. 340.
Schaaff, John T., Washington, D. C. Type-writing and other key-actuated machine. No. 1,040,585; Oct. 8; Gaz. vol. 183; p. 340.
Schaaff, John T., Washington, D. C. Operating attachment for keyboard-machines. No. 1,046,865; Dec. 10; Gaz. vol. 185; p. 411.
Schaak, Ella, Rapid City, S. D. Sewing-machine lamp-support. No. 1,047,306; Dec. 17; Gaz. vol. 185; p. 595.
Schaarschmidt, Alfred, Plauen, Germany. Knife for meat cutting and mincing machines. No. 1,015,403; Jan. 23; Sp. p. 5103; Gaz. vol. 174; p. 880.
Schabinger, Charles H. (See Foote and Schabinger.)
Schacht, Charles, Highland, Ill. Grain hulling and scouring machine. No. 1,017,326; Feb. 13; Sp. p. 2433; Gaz. vol. 175; p. 413.
Schad, Frank X., Gainesville, Tex. Spring top-support for vehicles. No. 1,035,246; Aug. 13; Gaz. vol. 181; p. 313.
Schade, Albert F., assignor to The Stanley Rule & Level Company, New Britain, Conn. Miter-box. No. 1,042,976; Oct. 29; Gaz. vol. 183; p. 1249.
Schade, Edmund A., assignor to The Stanley Rule & Level Company, New Britain, Conn. Plane. No. 1,032,346; July 9; Gaz. vol. 180; p. 559.
Schade, Edmund A., and C. Bodmer, assignors to The Stanley Rule & Level Company, New Britain, Conn. Miter-box. No. 1,013,319; Jan. 2; Sp. p. 516; Gaz. vol. 174; p. 81.
Schade-Erlandsen, Carsten A., Eskilstuna, Sweden. Signaling-cartridge. No. 1,018,632; Feb. 27; Sp. p. 5356; Gaz. vol. 175; p. 929.
Schade, John, Jr. (See Hoge and Schade.)
Schade, John, Jr., assignor of one-half to L. Fink, New York, N. Y. Locking device for loose-leaf binders. No. 1,024,525; Apr. 30; Sp. p. 5980; Gaz. vol. 177; p. 1064.
Schade, John, Jr., assignor to Fahnestock Electric Company, New York, N. Y. Spring fastening device. No. 1,047,897; Dec. 17; Gaz. vol. 185; p. 801.
Schade, Wilbert C., Cherry Tree, Pa. Car-wheel. No. 1,045,893; Dec. 3; Gaz. vol. 185; p. 33.
Schaefer, Arthur E. (See Jones and Schaefer.)
Schaefer, Bela B., assignor to Hartmann & Braun A.-G., Frankfort-on-the-Main, Germany. Hermetically sealing metal vapor apparatus with mercury packing. No. 1,048,592; Dec. 31; Gaz. vol. 185; p. 1100.
Schaefer, Edward, assignor to Missouri Lamp & Mfg. Co., St. Louis, Mo. Fire-extinguisher holder. No. 1,038,000; Sept. 10; Gaz. vol. 182; p. 310.
Schaefer, Edward J., German township, Hancock county, Iowa. Shredded-corn-fodder salter. No. 1,033,199; July 23; Gaz. vol. 180; p. 930.
Schaefer, Frederic. (See Stuart and Schaefer.)
Schaefer, Frederick J., and E. Beyer, Newark, N. J. Air-pump. No. 1,029,232; June 11; Sp. p. 2516; Gaz. vol. 179; p. 427.
Schaefer, John J., Elgin, Ill. Keyless combination door-lock. No. 1,017,327; Feb. 13; Sp. p. 2434; Gaz. vol. 175; p. 413.
Schaefer, Joseph E., Jr., assignor, by mesne assignments, to American Ignition Company, Detroit, Mich. Terminal-attachment-engaging device. No. 1,024,601; Apr. 30; Sp. p. 6180; Gaz. vol. 177; p. 1090.
Schaefer, Walter. (See Haberland and Schaefer.)
Schaefer, William J., *et al.* (See McCann, Lewis E., assignor.)
Schaefer, William J., Ontario, Cal. Agitating-cooker. No. 1,044,822; Nov. 19; Gaz. vol. 184; p. 681.
Schaefers, Nicholas, Ludlow, Ky. Pneumatic car dumping and righting device. No. 1,031,875; July 9; Gaz. vol. 180; p. 400.
Schaeffer, Anselm, Elizabeth, N. J. Propelling device for airships. No. 1,035,479; Aug. 13; Gaz. vol. 181; p. 395.
Schaeffer, August, Frankfort-on-the-Main, Germany. Air-douche. No. 1,040,773; Oct. 8; Gaz. vol 183; p. 406.
Schaeffer, Joseph. (See Kohloff, Paul W., assignor.)
Schaeffer, Louis J., West New York, N. J., assignor to G. B. Smith, Brooklyn, N. Y. Stop mechanism for buttonhole-sewing machines. No. 1,025,650; May 7; Sp. p. 1218; Gaz. vol. 178; p. 187.
Schaeffer Piano Mfg. Company. (See Freborg, Charles, assignor.)
Schaeffer, William G., assignor to Reading Standard Company, Reading, Pa. Oil-feed mechanism. No. 1,014,855; Jan. 16; Sp. p. 3946; Gaz. vol. 174; p. 668.
Schaefle, Simon M., Naperville, Ill. Mop-press. No. 1,019,369; Mar. 5; Sp. p. 843; Gaz. vol. 176; p. 125.
Schaeneman, Lewis G., Albany, N. Y. Floor-oiler. No. 1,021,708; Mar. 26; Sp. p. 5713; Gaz. vol. 176; p. 1027.
Schaetzel, George H., St. Louis, Mo. Lighting device for gas-burners. No. 1,036,727; Aug. 27; Gaz. vol. 181; p. 892.
Schafer, Edward J., Seaside, Oreg. Film-mending machine. No. 1,044,258; Nov. 12; Gaz. vol. 184; p. 454.
Schafer, Frank, Philadelphia, Pa. Match-box-filling machine. No. 1,034,308; July 30; Gaz. vol. 180; p. 1332.
Schäfer, Heinrich, Dresden, Germany. Compound for polishing leather and the like. No. 1,036,728; Aug. 27; Gaz. vol. 181; p. 893.
Schafer, Henry, Akron, Ohio. Sash-lock. No. 1,046,110; Dec. 3; Gaz. vol. 185; p. 107.
Schäfer, Johann W., assignor to Firm of R. Wagner, Hanover, Germany. Automatically-reversing ribbon-spool. No. 1,049,154; Dec. 31; Gaz. vol. 185; p. 1296.
Schäfer, Max, and R. Wagner, assignors to Firm of R. Bosch, Stuttgart, Germany. Apparatus for electrical ignition systems. No. 1,047,573; Dec. 17; Gaz. vol. 185; p. 689.
Schäfer, Mendel, Czernowitz, Austria-Hungary. Folding box. No. 1,040,242; Oct. 1; Gaz. vol. 183; p. 190.
Schäfer, Wilhelm, Cologne, Germany. Releasing mechanism for boring-tools. No. 1,037,799; Sept. 3; Gaz. vol. 182; p. 207.
Schäfer, Wilhelm, Mannheim, Germany. Window-frame. No. 1,045,617; Nov. 26; Gaz. vol. 184; p. 988.
Schaff, Charles E., *et al.* (See Foster, Oliver M., assignor.)
Schaff, William. (See Wurst and Schaff.)
Schaffer, George H., Stiles, Pa. Clutch. No. 1,046,866; Dec. 10; Gaz. vol. 185; p. 411.
Schaffer, Jacob, New York, N. Y. Sheet-metal box. No. 1,029,321; June 11; Sp. p. 2716; Gaz. vol. 179; p. 460.
Schaffer, Jacob, New York, N. Y. Combined protective shield and attaching device for receptacle-covers. No. 1,038,001; Sept. 10; Gaz. vol. 182; p. 310.
Schaffer, Morse B., assignor of one-half to C. H. Howard, St. Louis, Mo. Brake-gear for railway-cars. No. 1,039,821; Oct. 1; Gaz. vol. 183; p. 51.
Schäffer, Walter, Berlin, Germany. Connection for running arc-lamps. No. 1,032,027; July 9; Gaz. vol. 180; p. 449.
Schäffer, Walter, Berlin, Germany. Connection for running incandescent lamps and arc-lamps in common. No. 1,033,275; July 23; Gaz. vol. 180; p. 956.
Schaffer, William A., assignor of one-fourth to J. L. Orand, Waco, Tex. Explosive-engine. No. 1,037,667; Sept. 3; Gaz. vol. 182; p. 165.
Schaffert, Adolf H., assignor to General Fireproofing Company, Youngstown, Ohio. Metal structure for doors and analogous uses. No. 1,015,212; Jan. 16; Sp. p. 4668; Gaz. vol. 174; p. 788.
Schaffert, Adolf H., assignor to The General Fireproofing Company, Youngstown, Ohio. Metal-filing unit. No. 1,029,466; June 11; Sp. p. 3041; Gaz. vol. 179; p. 509.
Schaffert, Adolf H., assignor to The General Fireproofing Company, Youngstown, Ohio. Furniture construction. No. 1,029,467; June 11; Sp. p. 3042; Gaz. vol. 179; p. 509.
Schaffert, Adolf H., assignor to The General Fireproofing Company, Youngstown, Ohio. Portable cabinet. No. 1,047,843; Dec. 17; Gaz. vol. 185; p. 783.
Schaffert, Annie, *et al.* (See Schaffert, Louis, assignor.)
Schaffert, Louis, assignor of two-thirds to A. Schaffert, New York, N. Y., and one-third to S. G. Conkling, Ridgewood, N. J. Non-refillable bottle. No. 1,029,826; June 18; Sp. p. 3828; Gaz. vol. 179; p. 671.
Schaffner Bros. (See Merkel, Arthur E., assignor.)
Schaffnet, Minnie, San Diego, Cal. Rotatable sprinkler connection. No. 1,019,922; Mar. 12; Sp. p. 1964; Gaz. vol. 176; p. 340.
Schafuss, Norma F., Philadelphia, Pa. Hose-supporter. No. 1,045,618; Nov. 26; Gaz. vol. 184; p. 988.
Schalinsky, Otto, Jersey City, N. J. Life-boat controller. No. 1,032,949; July 16; Gaz. vol. 180; p. 805.
Schaller, Carl. (See Trinks and Schaller.)
Schaller, Johannes H., assignor to Cluett, Peabody & Company, Troy, N. Y. Fabric-drying apparatus. No. 1,038,002; Sept. 10; Gaz. vol. 182; p. 311.
Schaller, Otto, Südende, near Berlin, Germany. Electric incandescent lamp. No. 1,016,099; Jan. 30; Sp. p. 6611; Gaz. vol. 174; p. 1148.
Schalscha, Max, Summit, N. J. Lubricating device for steam-hammers. No. 1,037,332; Sept. 3; Gaz. vol. 182; p. 51.
Schamel, James T., Philadelphia, Pa. Micrometer sizing-block. No. 1,040,774; Oct. 8; Gaz. vol. 183; p. 406.

Alphabetical list of patentees—Continued.

Schanandoah, Chapman, Norfolk, Va. Megaphone. No. 1,040,775; Oct. 8; Gaz. vol. 183; p. 407.
Schanche, Herman G., assignor to Harrison Bros. & Co., Inc., Philadelphia, Pa. Manufacture of resin soap. No. 1,017,693; Feb. 20; Sp. p. 3182; Gaz. vol. 175; p. 573.
Schanche, Herman G., Philadelphia, Pa., and F. S. Havens, Hartford, Conn., assignors to Harrison Bros. & Co., Inc., Philadelphia, Pa. Manufacture of resin soap. No. 1,017,692; Feb. 20; Sp. p. 3180; Gaz. vol. 175; p. 573.
Schanck, Ephraim L., assignor of one-fourth to M. C. Russell, Delaware, Ohio. Device for cutting holes in sheet metal. No. 1,034,517; Aug. 6; Gaz. vol. 181; p. 39.
Schandein, Harry, and M. P. Lind, Philadelphia, Pa. Display-box. No. 1,030,209; June 18; Sp. p. 4659; Gaz. vol. 179; p. 801.
Schanz, Richard, Heidenau, Germany. Device for facilitating basket-making. No. 1,024,602; Apr. 30; Sp. p. 6181; Gaz. vol. 177; p. 1090.
Schapringer, George von, Vienna, Austria-Hungary. Apparatus for regenerating air. No. 1,022,602; Apr. 9; Sp. p. 1795; Gaz. vol. 177; p. 315.
Schär, Ferdinand, Lucerne, Switzerland. Floor or like structure. No. 1,017,175; Feb. 13; Sp. p. 2105; Gaz. vol. 175; p. 361.
Scharbach, Peter J., San Francisco, Cal. Potato digger and separator. No. 1,046,224; Dec. 3; Gaz. vol. 185; p. 148.
Schardt, August. (See Sudekum, William, assignor.)
Schärer-Nussbaumer, Jakob, Erlenbach, near Zurich, Switzerland. Winding-machine. No. 1,033,622; July 23; Gaz. vol. 180; p. 1070.
Scharf, Emil L., *et al.* (See Milton, John, assignor.)
Scharf, John A., Richwood, Ohio. Motor-vehicle driving-gear. No. 1,045,752; Nov. 26; Gaz. vol. 184; p. 1034.
Scharfenberg, Oswald. (See Herzberg and Scharfenberg.)
Schario, August J., *et al.* (See Paul, William G., assignor.)
Scharnweber, August, Davenport, Iowa. Roller attachment for washing-machines and the like. No. 1,034,309; July 30; Gaz. vol. 180; p. 1332.
Schatz, Adam E., Mount Vernon, N. Y. Furniture-caster. No. 1,026,773; May 21; Sp. p. 3710; Gaz. vol. 178; p. 643.
Schatz, Adam E., Mount Vernon, assignor to Harpoon Caster Manufacturing Company, New York, N. Y. Chair-leg or furniture caster. No. 1,019,534; Mar. 5; Sp. p. 1208; Gaz. vol. 176; p. 179.
Schatz, George V., Republican City, Nebr. Sliding-door lock. No. 1,046,336; Dec. 3; Gaz. vol. 185; p. 187.
Schatz, Herman A. (See Schatz, John W., assignor.)
Schatz, Herman W., assignor to The American Tool Works Company, Cincinnati, Ohio. Radial drill. No. 1,028,395; June 4; Sp. p. 727; Gaz. vol. 179; p. 110.
Schatz, John W., assignor of one-half to H. A. Schatz, Poughkeepsie, N. Y. Making hollow metallic balls. No. 1,039,673; Sept. 24; Gaz. vol. 182; p. 935.
Schatz, John W., assignor of one-half to H. A. Schatz, Poughkeepsie, N. Y. Making hollow metallic balls. No. 1,039,674; Sept. 24; Gaz. vol. 182; p. 936.
Schaufler, Fred L., Mattoon, Ill., assignor to National Aerial Navigation & Equipment Co., Cullman, Ala. Flying-machine. No. 1,037,800; Sept. 3; Gaz. vol. 182; p. 208.
Schaum, Otto W., assignor to Fay Machine Tool Company, Philadelphia, Pa. Lathe. No. 1,042,149; Oct. 22; Gaz. vol. 183; p. 937.
Schaumberg, Otto. (See Aalborg and Schaumberg.)
Schaumberg, Otto, Pittsburgh, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Transformer. No. 1,034,934; Aug. 6; Gaz. vol. 181; p. 178.
Schaumburg, Charles, Olalla, Wash. Fruit-jar holder. 1,033,276; July 23; Gaz. vol. 180; p. 957.
Schauweker, Charles. (See Powelsen, Charles L., assignor.)
Schclecki, Mikel, and W. Chudrik, Pittsburgh, Pa. Molding-machine. No. 1,021,633; Mar. 26; Sp. p. 5580; Gaz. vol. 176; p. 1003.
Scheble, Eugene S., Cleburne, and E. Ascue, Blum, Tex.; said Ascue assignor of four-fifths of his right to said Scheble. Cotton-picker. No. 1,020,116; Mar. 12; Sp. p. 2367; Gaz. vol. 176; p. 404.
Schechter, Joseph, New York, N. Y., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Combination-lock. No. 1,022,268; Apr. 2; Sp. p. 1083; Gaz. vol. 177; p. 173.
Scheeffer, Gustave A., assignor to Columbia Meter Company, Indianapolis, Ind. Electric meter. No. 1,032,301; July 9; Gaz. vol. 180; p. 542.
Scheeffer, Gustave A., assignor to Columbia Meter Company, Indianapolis, Ind. Electric meter. No. 1,032,778; July 16; Gaz. vol. 180; p. 750.
Scheelk, Claude, Oakland, Cal. Valve-gasket. No. 1,033,201; July 23; Gaz. vol. 180; p. 931.
Scheer, Samuel. (See Schultz and Scheer.)
Scheer, Samuel, Richmond, Va. Clock-frame. No. 1,040,023; Oct. 1; Gaz. vol. 183; p. 117.
Scheftel, Edwin K. (See Holland, Arthur A., assignor.)
Scheftel, George. (See Scheftel, Max, assignor.)
Scheftel, Max, Brooklyn, assignor to G. Scheftel, New York, N. Y. Monorail railway. No. 1,034,840; Aug. 6; Gaz. vol. 181; p. 148.
Scheibe, Harold M. (See Jackson and Scheibe.)
Scheibe, Harold M., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. System of electric-current distribution. No. 1,036,914; Aug. 27; Gaz. vol. 181; p. 953.
Scheibe, Harold M., Wilkinsburg, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Supporting means for electric motors. No. 1,042,485; Oct. 29; Gaz. vol. 183; p. 1079.
Scheible, Albert, Chicago, Ill. Hanger for electrical apparatus. No. 1,034,518; Aug. 6; Gaz. vol. 181; p. 39.
Scheible, Albert, Chicago, Ill. Supporting mechanism. No. 1,042,150; Oct. 22; Gaz. vol. 183; p. 937.
Scheil, Friedrich, Jersey City, N. J. Rug-finishing machine. No. 1,040,024; Oct. 1; Gaz. vol. 183; p. 117.
Scheiler, Henry W. (See Martin and Scheiler.)
Scheit, Hermann, Dresden-Strehlen, Germany. Two-cycle explosion-motor. No. 1,015,909; Jan. 30; Sp. p. 6198; Gaz. vol. 174; p. 1081.
Scheitlin, Emil, Basel, Switzerland. Compounds of blood or its constituents and making same. No. 1,015,641; Jan. 23; Sp. p. 5629; Gaz. vol. 174; p. 963.
Schelden, H. G., *et al.* (See Merkel, Lewis W., assignor.)
Schele, Gustaf T. (See Erixon, John, assignor.)
Schelest, Andrey, Kholm, Russia. Moving-train transfer device. No. 1,032,950; July 16; Gaz. vol. 180; p. 805.
Schell, Max P., assignor to C. H. Kobicke, San Francisco, Cal. Non-refillable bottle. No. 1,019,535; Mar. 5; Sp. p. 1209; Gaz. vol. 176; p. 179.
Schell, Natalie, New York, N. Y. Bolt and locking device therefor. No. 1,038,664; Sept. 17; Gaz. vol. 182; p. 570.
Schellenger, Elmer E., Riverside, Cal. Spraying device. No. 1,022,643; Apr. 9; Sp. p. 1881; Gaz. vol. 177; p. 329.
Schellenger, Elmer E., Riverside, Cal. Electric-lamp hanger. No. 1,024,029; Apr. 23; Sp. p. 4840; Gaz. vol. 177; p. 858.
Schellenger, Elmer E., Riverside, Cal. Hanger for electric lamps. No. 1,024,030; Apr. 23; Sp. p. 4842; Gaz. vol. 177; p. 859.
Schellenger, Elmer E., Riverside, Cal. Distributer for dumping wagons and cars. No. 1,029,894; June 18; Sp. p. 3988; Gaz. vol. 179; p. 694.
Schellenger, Elmer E., Riverside, Cal. Dumping-wagon. No. 1,029,895; June 18; Sp. p. 3992; Gaz. vol. 179; p. 694.
Schellenger, Newton C., Salt Lake City, Utah. Automatic firearm. No. 1,029,720; June 18; Sp. p. 3592; Gaz. vol. 179; p. 634.
Scheller, John, Milwaukee, Wis. Valve-grinding tool. No. 1,023,967; Apr. 23; Sp. p. 4715; Gaz. vol. 177; p. 836.
Schellman, Henry A. (See Makin and Schellman.)
Schelter, George G., Rochester, N. Y. Contour-gage. No. 1,019,923; Mar. 12; Sp. p. 1966; Gaz. vol. 176; p. 341.
Schemmel, Robert C., assignor to Backstay Machine and Leather Company, Union City, Ind. Valance. No. 1,021,487; Mar. 26; Sp. p. 5296; Gaz. vol. 176; p. 955.
Schenck, Charles. (See Wylde and Schenck.)
Schenck, Charles, assignor to Elevator Supply & Repair Company, Chicago, Ill. Lubricator for elevator-guides. No. 1,020,715; Mar. 19; Sp. p. 3645; Gaz. vol. 176; p. 641.
Schenck, Charles, and D. I. Cooke, assignors to Forsyth Bros. Company, Chicago, Ill. Station-indicating device. No. 1,032,160; July 9; Gaz. vol. 180; p. 493.
Schenck, Christian, Weston, Ill. Reinforcing means for collars. No. 1,020,576; Mar. 19; Sp. p. 3345; Gaz. vol. 176; p. 594.
Schenck, Harry G., Delphi, Ind. Gate. No. 1,031,471; July 2; Gaz. vol. 180; p. 217.
Schenck, John H., Cedar Rapids, Iowa. Chiropractor's adjusting-table. No. 1,035,054; Aug. 6; Gaz. vol. 181; p. 217.
Schenck, Martin B., deceased; W. A. Schenck, executor, assignor to The M. B. Schenck Company, Meriden, Conn. Caster. No. 1,022,800; Apr. 9; Sp. p. 2244; Gaz. vol. 177; p. 384.
Schenck, Peirce D., Dayton, Ohio. Valve mechanism. No. 1,018,447; Feb. 27; Sp. p. 4901; Gaz. vol. 175; p. 866.
Schenck, William A., executor. (See Schenck, Martin B.)
Schenk, Albert M. (See Becker, Adolph, assignor.)
Schenk, Bertha, Pittsburgh, Pa. Curtain-stretcher. No. 1,042,284; Oct. 22; Gaz. vol. 183; p. 981.
Schenk, Charles, Chicago, Ill. Cake-mixer. No. 1,014,909; Jan. 16; Sp. p. 4057; Gaz. vol. 174; p. 686.
Schenk, Kahtrina, Monaca, Pa. Hair-pin. No. 1,048,353; Dec. 24; Gaz. vol. 185; p. 981.
Schenk, Nicholas, St. Louis, Mo. Vehicle-wheel. No. 1,019,845; Mar. 12; Sp. p. 1788; Gaz. vol. 176; p. 313.
Schenk, Nicholas, St. Louis, Mo. Resilient wheel. No. 1,019,846; Mar. 12; Sp. p. 1792; Gaz. vol. 176; p. 313.
Schenk, Nicholas, St. Louis, Mo. Resilient wheel. No. 1,019,847; Mar. 12; Sp. p. 1794; Gaz. vol. 176; p. 314.

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Schenkel, Charles A., Wabash, Ind. Vehicle-tire. No. 1,021,072; Mar. 26; Sp. p. 4384; Gaz. vol. 176; p. 813.
Schenkel, Moritz, Charlottenburg, assignor to Siemens-Schuckert Werke, G. m. b. H., Berlin, Germany. Connection for regulating the speed of alternating-current commutator-motors. No. 1,033,474; July 23; Gaz. vol. 180; p. 1021.
Schenker, Walter, Winterthur, Switzerland, assignor to Busch-Sulzer Bros.-Diesel Engine Company, St. Louis, Mo. Scavenging-pump construction. No. 1,048,593; Dec. 31; Gaz. vol. 185; p. 1101.
Schepmoes, Lindsley, Hasbrouck Heights, N. J., assignor to The Safety Car Heating & Lighting Company. Electric fixture. No. 1,025,208; May 7; Sp. p. 217; Gaz. vol. 178; p. 36.
Schepmoes, Lindsley, Hasbrouck Heights, N. J., assignor to The Safety Car Heating & Lighting Company. Lighting-fixture. No. 1,039,822; Oct. 1; Gaz. vol. 183; p. 51.
Schepmoes, Lindsley, Hasbrouck Heights, N. J., assignor to Safety Car Heating & Lighting Company. Lamp. No. 1,043,256; Nov. 5; Gaz. vol. 184; p. 74.
Schepmoes, Lindsey, Hasbrouck Heights, N. J., assignor to The Safety Car Heating & Lighting Company. Lamp. No. 1,043,872; Nov. 12; Gaz. vol. 184; p. 321.
Schepmoes, Lindsey, Hasbrouck Heights, N. J., assignor to The Safety Car Heating & Lighting Company. Lighting-fixture. No. 1,045,445; Nov. 26; Gaz. vol. 184; p. 925.
Schepmoes, Lindsley, Hasbrouck Heights, N. J., assignor to The Safety Car Heating & Lighting Company. Lighting-fixture. No. 1,045,446; Nov. 26; Gaz. vol. 184; p. 926.
Scherba, Teodore, Pittsburgh, Pa. Trolley. No. 1,048,742; Dec. 31; Gaz. vol. 185; p. 1154.
Scherer, Albert G., Chicago, Ill. Connection for sections of hot-air pipe. No. 1,026,607; May 14; Sp. p. 3316; Gaz. vol. 178; p. 548.
Scherer, Albert G., assignor to A. W. Glessner, Chicago, Ill. Stack-head for wall-registers. No. 1,023,278; Apr. 16; Sp. p. 3291; Gaz. vol. 177; p. 588.
Scherl Monorail Company. (See Falcke, Emil, assignor.)
Scherling, Rudolph C., assignor to H. E. and J. E. Bullock, Chicago, Ill. Cotton-harvester. No. 1,035,645; Aug. 13; Gaz. vol. 181; p. 451.
Schermack, Joseph J., Detroit, Mich. Stamp-handling machine. No. 1,037,546; Sept. 3; Gaz. vol. 182; p. 125.
Schermerhorn, Herschel A., Shabbona Grove, Ill. Spring-wheel. No. 1,034,736; Aug. 6; Gaz. vol. 181; p. 112.
Schermerhorn, John W. (See Thiry and Schermerhorn.)
Schernikow, Ernest. (See Finnell and Schernikow.)
Scherzer, Albert H., Chicago, Ill. Bascule-bridge. No. 1,021,488; Mar. 26; Sp. p. 5297; Gaz. vol. 176; p. 955.
Scherzer, Albert H., Chicago, Ill. Bascule-bridge. No. 1,041,885; Oct. 22; Gaz. vol. 183; p. 851.
Scherzer Rolling Lift Bridge Company. (See Keller, Charles L., assignor.)
Schesch, Theodore H., Ilion, N. Y., assignor to Union Typewriter Company, Jersey City, N. J. Polishing-machine. No. 1,043,973; Nov. 12; Gaz. vol. 184; p. 358.
Schettler, Gustav A., Leicester, England. Machine for measuring the superficial area of leather and like material. No. 1,046,655; Dec. 10; Gaz. vol. 185; p. 337.
Scheuber, August W., Jersey City Heights, N. J., assignor to S. Zinn, Brooklyn, N. Y. Safety-razor. No. 1,018,783; Feb. 27; Sp. p. 5677; Gaz. vol. 175; p. 981.
Scheuch, Jacob J., assignor, to The White Tar Company, New York, N. Y. Closure for mothproof bags. No. 1,028,970; June 11; Sp. p. 1956; Gaz. vol. 179; p. 338.
Scheuer, Joseph F., Two Creeks, Wis. Fire-escape apparatus. No. 1,037,333; Sept. 3; Gaz. vol. 182; p. 51.
Scheuer, Paul, McKeesport, Pa. Transfer-table for rolling-mills. No. 1,020,313; Mar. 12; Sp. p. 2769; Gaz. vol. 176; p. 469.
Schewczik, Silvio A., Vienna, Austria-Hungary. Heating or cooling plate. No. 1,015,404; Jan. 23; Sp. p. 5104; Gaz. vol. 174; p. 880.
Schewelin, Wladimir, assignor to La Société Anonyme Wolokno Schewelin, Moscow, Russia. Treatment of vegetable fibers and materials. No. 1,020,625; Mar. 19; Sp. p. 3446; Gaz. vol. 176; p. 609.
Schichtl, Martin, North Yakima, Wash. Water-elevator. No. 1,021,895; Apr. 2; Sp. p. 308; Gaz. vol. 177; p. 51.
Schichtmeyer, Firm of Ernst. (See Waldmann, Julius, assignor.)
Schick, Adolph, Wheeling, W. Va. Vehicle-wheel. No. 1,019,192; Mar. 5; Sp. p. 412; Gaz. vol. 176; p. 65.
Schick, Charles, Davenport, Iowa. Paper-baler. No. 1,028,396; June 4; Sp. p. 733; Gaz. vol. 179; p. 110.
Schick, Ida W., *et al.* (See Schoonover, James S., assignor.)
Schicke, Joseph, St. Louis, Mo. Door-lock. No. 1,031,293; July 2; Gaz. vol. 180; p. 157.
Schickel, Norbert H., Stamford, Conn. Mud-guard. No. 1,048,894; Dec. 31; Gaz. vol. 185; p. 1207.
Schickerling, Alfred, New York, N. Y. Cigar-cutter. No. 1,043,363; Nov. 5; Gaz. vol. 184; p. 114.
Schieber, Wilhelm, Vienna, assignor to Berndorfer Metallwaaren-Fabrik Arthur Krupp, Berndorf, Austria-Hungary. Welding copper or nickel and copper or nickel alloy. No. 1,013,620; Jan. 2; Sp. p. 1149; Gaz. vol. 174; p. 183.
Schieble Toy & Novelty Company, The. (See Turner, John C., assignor.)
Schiefer, Paul, San Diego, Cal. Clothing-cabinet. No. 1,024,366; Apr. 23; Sp. p. 5552; Gaz. vol. 177; p. 973.
Schiele, Anna M., Philadelphia, Pa. Clothes-pin bag. No. 1,025,651; May 7; Sp. p. 1221; Gaz. vol. 178; p. 188.
Schiementz, Otto P., Chemnitz, Germany. Automatic nut-tapping machine. No. 1,020,451; Mar. 19; Sp. p. 3054; Gaz. vol. 176; p. 553.
Schies, John, Anderson, Ind. Apparatus for manufacturing glassware. No. 1,027,567; May 28; Sp. p. 5442; Gaz. vol. 178; p. 952.
Schies, John, Anderson, Ind. Machinery for manufacturing glassware. No. 1,046,867; Dec. 10; Gaz. vol. 185; p. 411.
Schiesari, Mario, Turin, Italy. Monocycle skate. No. 1,023,882; Apr. 23; Sp. p. 4509; Gaz. vol. 177; p. 808.
Schiesari, Mario, Turin, Italy. Type-writing machine. No. 1,035,750; Aug. 13; Gaz. vol. 181; p. 486.
Schiesari, Mario, Turin, Italy. Type-writing machine. No. 1,035,814; Aug. 13; Gaz. vol. 181; p. 508.
Schiess, Karl, Herisau, Switzerland. Handle-attaching device. No. 1,043,146; Nov. 5; Gaz. vol. 184; p. 35.
Schiffers, August, Aix-la-Chapelle, Germany. Machine for dyeing, bleaching, and the like. No. 1,020,452; Mar. 19; Sp. p. 3056; Gaz. vol. 176; p. 553.
Schiffl, Charles, assignor, by mesne assignments, to Thomas A. Edison, Incorporated, West Orange, N. J. Phonograph-horn support. No. 1,017,328; Feb. 13; Sp. p. 2436; Gaz. vol. 175; p. 414.
Schiffl, Charles, assignor, by mesne assignments, to Thomas A. Edison, Incorporated, West Orange, N. J. Phonograph-motor-signaling device. No. 1,027,774; May 28; Sp. p. 5855; Gaz. vol. 178; p. 1019.
Schild, Viktor, Brienz, Switzerland, assignor to J. Welter, Passaic, N. J. Electric sad-iron. No. 1,029,233; June 11; Sp. p. 2519; Gaz. vol. 179; p. 428.
Schildhauer, Edward, Culebra, Canal Zone. Towing system for canals. No. 1,013,901; Jan. 9; Sp. p. 1809; Gaz. vol. 174; p. 210.
Schildt, W. F. (See Frambach and Corrington, assignors.)
Schilke, Arthur H., Wilmerding, Pa. Combination burner and blowpipe. No. 1,029,031; June 11; Sp. p. 2092; Gaz. vol. 179; p. 360.
Schiller, Bernhard, Vienna, Austria-Hungary. Machine for testing materials. No. 1,033,623; July 23; Gaz. vol. 180; p. 1070.
Schiller, Joseph F., Philadelphia, Pa. Blow-off valve for steam-boilers. No. 1,044,259; Nov. 12; Gaz. vol. 184; p. 455.
Schiller, Morris, St. Louis, Mo. Sanitary portable water-closet. No. 1,038,665; Sept. 17; Gaz. vol. 182; p. 570.
Schilling, August, assignor to Bielefelder Maschinenfabrik vormals Dürkopp & Co., Bielefeld, Germany. Cage-ring for ball-bearings. No. 1,013,518; Jan. 2; Sp. p. 936; Gaz. vol. 174; p. 150.
Schilling, Franz W., assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Safe or steel-vault wall. No. 1,026,461; May 14; Sp. p. 3029; Gaz. vol. 178; p. 500.
Schilling, George W., Philadelphia, Pa. Swing. No. 1,016,712; Feb. 6; Sp. p. 1082; Gaz. vol. 175; p. 166.
Schilling, George W., Philadelphia, Pa. Swing. No. 1,027,157; May 21; Sp. p. 4607; Gaz. vol. 178; p. 773.
Schilling, Louis, Maeystown, Ill. Spring-wheel. No. 1,023,098; Apr. 9; Sp. p. 2858; Gaz. vol. 177; p. 486.
Schilling, William F. (See McKee and Schilling.)
Schillinger, William J. (See Kirton and Schillinger.)
Schilow, Wassily, Libau, Russia. Tube-cleaner. No. 1,044,920; Nov. 19; Gaz. vol. 184; p. 714.
Schilowsky, Peter, Kostroma, Russia. Monotrack-vehicle. No. 1,041,680; Oct. 15; Gaz. vol. 183; p. 742.
Schimek, Richard, New York, N. Y. Window-ventilating appliance. No. 1,016,713; Feb. 6; Sp. p. 1086; Gaz. vol. 175; p. 167.
Schimmel, Franz, Montrouge, near Paris, France. Machine for setting and casting from lines of type-matrices. No. 1,038,445; Sept. 10; Gaz. vol. 182; p. 461.
Schimmel, Franz, Nancy, France. Machine for casting and composing type. No. 1,042,285; Oct. 22; Gaz. vol. 183; p. 981.
Schimmel, Fridolin, Faribault, Minn. Sandpapering-machine. No. 1,025,836; May 7; Sp. p. 1591; Gaz. vol. 178; p. 252.
Schimmel, Fridolin, Faribault, Minn. Sandpapering-machine. No. 1,027,439; May 28; Sp. p. 5184; Gaz. vol. 178; p. 909.
Schimmel, Fridolin, Faribault, Minn. Shock-absorber. No. 1,046,656; Dec. 10; Gaz. vol. 185; p. 338.
Schimmel, Fridolin, assignor to Schimmel, Reid & Company, Faribault, Minn. Dust-proof pad for sandpapering and polishing machines. No. 1,045,894; Dec. 3; Gaz. vol. 185; p. 34.
Schimmel, Fridolin, assignor to Schimmel, Reid & Company, Faribault, Minn. Shock-absorber. No. 1,048,743; Dec. 31; Gaz. vol. 185; p. 1154.
Schimmel, Gustav R., Detroit, Mich. Fastener for bottle-stoppers. No. 1,015,841; Jan. 30; Sp. p. 6049; Gaz. vol. 174; p. 1056.
Schimmel, Reid & Company. (See Schimmel, Fridolin, assignor.)

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Schimper, Frederick, Union, assignor of one-half to A. H. Koeller, Ridgefield Park, N. J. Yeast washing and aerating apparatus. No. 1,020,716; Mar. 19; Sp. p. 3648; Gaz. vol. 176; p. 642.
Schimper, Frederick, Union, assignor of one-half to A. H. Koeller, Ridgefield Park, N. J. Wind-shield. No. 1,026,408; May 14; Sp. p. 2917; Gaz. vol. 178; p. 483.
Schimper, Frederick, Union, assignor of one-half to A. H. Koeller, Ridgefield Park, N. J. Shoe-cleaner. No. 1,026,774; May 21; Sp. p. 3712; Gaz. vol. 178; p. 643.
Schindhelm, Clara K., Cincinnati, Ohio. Mold. No. 1,026,832; May 21; Sp. p. 3826; Gaz. vol. 178; p. 662.
Schindler, Charles A., West Hoboken, N. J. Signaling device. No. 1,015,715; Jan. 23; Sp. p. 5787; Gaz. vol. 174; p. 986.
Schindler, Charles A., West Hoboken, N. J. Signaling device. No. 1,046,225; Dec. 3; Gaz. vol. 185; p. 148.
Schindler, Joseph, Ellensburg, Wash. Utilizing exhaust-steam. No. 1,036,915; Aug. 27; Gaz. vol. 181; p. 953.
Schindler, Linus P. (See Schindler, Max G. and L. P.)
Schindler, M. D., *et al.* (See Henning, John, assignor.)
Schindler, Max G. and L. P., Hamburg, Germany. Brick-laying-machine. No. 1,033,954; July 30; Gaz. vol. 180; p. 1209.
Schinke, Clara, Pittsburgh, Pa. Curtain-pole. No. 1,016,040; Jan. 30; Sp. p. 6481; Gaz. vol. 174; p. 1127.
Schirmacher, Karl, assignor to Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany. Azo dyestuff. No. 1,045,196; Nov. 26; Gaz. vol. 184; p. 837.
Schirmer, Richard. (See Matthes and Schirmer.)
Schirner, Theodore C., Columbus, Ohio. Rind-stripping device. No. 1,043,257; Nov. 5; Gaz. vol. 184; p. 75.
Schisler, Frank J., Winthrop, Minn. Rail-fastener for metal ties. No. 1,048,594; Dec. 31; Gaz. vol. 185; p. 1101.
Schitzkowsky, Moritz, Dusseldorf, Germany. Bending pipes. No. 1,041,176; Oct. 15; Gaz. vol. 183; p. 574.
Schlachter, Nicholas J., Gettysburg, S. D. Silo. No. 1,043,034; Oct. 29; Gaz. vol. 183; p. 1270.
Schlafke, William J., Auburndale, Wis. Telescopic umbrella. No. 1,044,823; Nov. 19; Gaz. vol. 184; p. 681.
Schlafly, Julius H., assignor to The Canton Culvert Company, Canton, Ohio. Culvert. No. 1,016,581; Feb. 6; Sp. p. 809; Gaz. vol. 175; p. 120.
Schlage, Walter R., San Francisco, Cal. Indicating push-button. No. 1,021,339; Mar. 26; Sp. p. 4952; Gaz. vol. 176; p. 904.
Schlagel, Jacob, New York, assignor to H. W. Aylward, Brooklyn, N. Y. Bottle-capping head. No. 1,033,955; July 30; Gaz. vol. 180; p. 1209.
Schlager, Jacob R. (See Sheedy, Harry J., assignor.)
Schlatterer, Charles, Philadelphia, Pa. Faucet. No. 1,029,403; June 11; Sp. p. 2918; Gaz. vol. 179; p. 488.
Schlehr, Joseph A., Chicago, Ill. Bolt-holder. No. 1,016,296; Feb. 6; Sp. p. 131; Gaz. vol. 175; p. 21.
Schleicher, John W., St. Louis, Mo., assignor to Mengel Box Company, Louisville, Ky. Packing-box. No. 1,039,447; Sept. 24; Gaz. vol. 182; p. 856.
Schleicher, Robert, assignor to Mengel Box Company, Louisville, Ky. Box-fastener. No. 1,022,156; Apr. 2; Sp. p. 859; Gaz. vol. 177; p. 136.
Schleicher, William A., Cleveland, Ohio. Blanket-fastener. No. 1,028,138; June 4; Sp. p. 131; Gaz. vol. 179; p. 20.
Schleier, Charles W., Wellston, Mo. Folding lunch-box. No. 1,018,378; Feb. 20; Sp. p. 4732; Gaz. vol. 175; p. 810.
Schleier, Charles W., Wellston, Mo. Combined hat-ornament band and hat-pin-point protector. No. 1,034,310; July 30; Gaz. vol. 180; p. 1333.
Schleifenheimer, John T. (See Coulter, Thomas H., assignor.)
Schleifmaschinen Verwertungs Gesellschaft m. b. H. (See Florstedt, Friedrich, assignor.)
Schleit, Willis A., Syracuse, N. Y. Draft-regulator for hot-water heaters. No. 1,026,965; May 21; Sp. p. 4162; Gaz. vol. 178; p. 710.
Schlenker, Jakob, Schwenningen, Germany. Speed-recording apparatus for vehicles. No. 1,029,638; June 18; Sp. p. 3394; Gaz. vol. 179; p. 604.
Schlesinger, Georg, Berlin-Wilmersdorf, Germany. Sheet-handling mechanism. No. 1,040,025; Oct. 1; Gaz. vol. 183; p. 118.
Schlesinger, Isaac, assignor to L. Schlesinger, New York, N. Y. Toy drum. No. 1,020,717; Mar. 19; Sp. p. 3650; Gaz. vol. 176; p. 642.
Schlesinger, Leo. (See Schlesinger, Isaac, assignor.)
Schlesinger, Louis. (See Allen and Schlesinger.)
Schlewinger, Siegfried. (See Wittlin, Jacques, assignor.)
Schley, Frederick L., New York, N. Y. Plate-holder. No. 1,022,879; Apr. 9; Sp. p. 2400; Gaz. vol. 177; p. 411.
Schley, George B., Milwaukee, Wis., assignor to Allis-Chalmers Company. Time-element device. No. 1,027,440; May 28; Sp. p. 5187; Gaz. vol. 178; p. 909.
Schlichten, George W., Los Angeles, Cal. Apparatus for treatment of fiber-bearing and other plants. No. 1,021,269; Mar. 26; Sp. p. 4805; Gaz. vol. 176; p. 877.
Schlick, Otto, Berlin, Germany. Back-pedaling brake. No. 1,037,057; Aug. 27; Gaz. vol. 181; p. 1003.
Schlick, Thomas A. (See Niles, Harry F., assignor.)
Schloemer, Andrew, West Allis, Wis. Agricultural implement. No. 1,019,370; Mar. 5; Sp. p. 846; Gaz. vol. 176; p. 126.
Schloerb, Albert P. (See Pfefferkorn, Schloerb, and Hammetter.)
Schloss, Emil, New York, N. Y. Waterproof flower-stem protector. No. 1,044,260; Nov. 12; Gaz. vol. 184; p. 455.
Schloss, Harry M., New York, N. Y. Window-shade adjuster. No. 1,022,704; Apr. 9; Sp. p. 2035; Gaz. vol. 177; p. 352.
Schloss, Joseph W., New York, N. Y. Collar-supporter. No. 1,040,026; Oct. 1; Gaz. vol. 183; p. 118.
Schloss, Meyer W. (See Beck, August B., assignor.)
Schloss, Newton L., New York, N. Y. Lighting-fixture. No. 1,025,313; May 7; Sp. p. 457; Gaz. vol. 178; p. 72.
Schlosser, John, New York, N. Y. Apparatus for stretching the armholes of coats. No. 1,038,792; Sept. 17; Gaz. vol. 182; p. 616.
Schlotter, Georg A., assignor to Schlotter-Propeller-Patentverwertungs-Gesellschaft mit beschränkter Haftung, Dresden, Germany. Ship-propeller. (Reissue.) No. 13,349; Jan. 2; Sp. p. 1699; Gaz. vol. 174; p. 268.
Schlotter-Propeller-Patentverwertungs-Gesellschaft mit beschränkter Haftung. (See Schlotter, Georg A., assignor.) (Reissue.)
Schlotterback, Lewis E., East Orange, N. J., assignor to L. E. Schlotterback Manufacturing Co. Transmission mechanism. No. 1,026,462; May 14; Sp. p. 3030; Gaz. vol. 178; p. 500.
Schlotterback, Lewis E., East Orange, N. J., assignor to L. E. Schlotterback Manufacturing Co. Nut-lock. No. 1,043,258; Nov. 5; Gaz. vol. 184; p. 75.
Schlueter, Adolph, Oakland, Cal. Air-heater. No. 1,028,064; May 28; Sp. p. 6521; Gaz. vol. 178; p. 1115.
Schlueter, Ferdinand, Jr. (See Schlueter, Karl M. and F.)
Schlueter, Karl M. and F., Jr., New York, N. Y. Gage for alining printing-plates. No. 1,013,621; Jan. 2; Sp. p. 1150; Gaz. vol. 174; p. 183.
Schlund, Jacob B., Kennewick, Wash. Dental disk-guide. No. 1,042,039; Oct. 22; Gaz. vol. 183; p. 901.
Schlund, Phillip, Wheatland, Wyo. Fanning-mill and grading-machine. No. 1,031,092; July 2; Gaz. vol. 180; p. 87.
Schmadeka, Edmund C., Grangeville, Idaho. Railway-tie. No. 1,034,311; July 30; Gaz. vol. 180; p. 1333.
Schmaltz, Peter R., Pittston, Pa. Curtain-fixture. No. 1,024,288; Apr. 23; Sp. p. 5423; Gaz. vol. 177; p. 950.
Schmarsow, Herman, New York, N. Y. Safety jewel-chest. No. 1,028,910; June 11; Sp. p. 1829; Gaz. vol. 179; p. 318.
Schmehl, Jacob L., and E. M. MacNally, South Bethlehem, Pa. Rotary engine. No. 1,034,519; Aug. 6; Gaz. vol. 181; p. 40.
Schmeisser, Louis, Erfurt, Germany. Gun-support. No. 1,033,624; July 23; Gaz. vol. 180; p. 1071.
Schmeling, Otto R., Watertown, S. D. Combined plow and seeding-machine. No. 1,048,895; Dec. 31; Gaz. vol. 185; p. 1207.
Schmelz, Charles F. (See Rockwell and Schmelz.)
Schmelz, William A., Pittsburgh, Pa. Attachment for telephones. No. 1,034,148; July 30; Gaz. vol. 180; p. 1277.
Schmelzer, Paul H., assignor to P. C. Murphy Trunk Company, St. Louis, Mo. Trunk-tray. No. 1,017,812; Feb. 20; Sp. p. 3492; Gaz. vol. 175; p. 614.
Schmelzkopf, Edward C., assignor to Gisholt Machine Company, Madison, Wis. Chuck. No. 1,025,162; May 7; Sp. p. 108; Gaz. vol. 178; p. 20.
Schmid, Alfred, Zürich, Switzerland. Alloy of copper and zinc. No. 1,040,027; Oct. 1; Gaz. vol. 183; p. 118.
Schmid, Ernest E., assignor to Shield Electric Company, New York, N. Y. Strain-insulator. No. 1,046,868; Dec. 10; Gaz. vol. 185; p. 412.
Schmid, John V. (See Eynon and Schmid.)
Schmid, John V., Wyndmoor, Pa., assignor to Nelson Valve Company. Valve. No. 1,033,121; July 23; Gaz. vol. 180; p. 903.
Schmid, John V., Philadelphia, and C. Mason, Wyndmoor, Pa., assignors to Nelson Valve Company. Valve. No. 1,028,497; June 4; Sp. p. 958; Gaz. vol. 179; p. 144.
Schmid, William, assignor to William Shakespeare, Jr., Company, Kalamazoo, Mich. Fishing-reel. No. 1,047,993; Dec. 24; Gaz. vol. 185; p. 861.
Schmidgall, Carl H., and O. A. Barnewolt; said Barnewolt assignor to F. G. Lindeburg, Peoria, Ill. Hinge-holding device. No. 1,037,547; Sept. 3; Gaz. vol. 182; p. 126.
Schmidgall, Frederick, Cincinnati, Ohio. Door-locking means. No. 1,024,603; Apr. 30; Sp. p. 6183; Gaz. vol. 177; p. 1091.
Schmidhofer, Ernst C., Minneapolis, Minn. Horn. No. 1,022,509; Apr. 9; Sp. p. 1591; Gaz. vol. 177; p. 284.
Schmidl, Ludwig, Wr. Neustadt, Austria-Hungary. Aeroplane. No. 1,046,028; Dec. 3; Gaz. vol. 185; p. 78.
Schmidt, Albert, assignor to Champion Ignition Co., Flint, Mich. Spark-plug. No. 1,015,843; Jan. 30; Sp. p. 6056; Gaz. vol. 174; p. 1056.
Schmidt, Albert, assignor to Champion Ignition Company, Flint, Mich. Magneto. No. 1,026,054; May 14; Sp. p. 2124; Gaz. vol. 178; p. 361.

Alphabetical list of patentees—Continued.

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Schmidt, Albrecht, assignor to Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany. Isolated alkali salts of indoxyl and making same. No. 1,027,441; May 28; Sp. p. 5189; Gaz. vol. 178; p. 910.
Schmidt, Albrecht, Höchst-on-the-Main, and G. Kränzlein, Sindlingen, near Höchst-on-the-Main, assignors to Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany. Manufacture of azo dyestuffs of the anthraquinone series and making same. No. 1,028,139; June 4; Sp. p. 132; Gaz. vol. 179; p. 20.
Schmidt, Albrecht, and G. Kränzlein, assignors to Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany. Pure β-anthraquinonyl-urea-chlorid and making same. No. 1,038,003; Sept. 10; Gaz. vol. 182; p. 311.
Schmidt, Albrecht, Höchst-on-the-Main, and G. Kränzlein, Sindlingen, near Höchst-on-the-Main, assignors to Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany. Halogenized condensation product of the anthracene series and making same. No. 1,046,498; Dec. 10; Gaz. vol. 185; p. 283.
Schmidt, Albrecht, and K. Thiess, assignors to Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany. Reddish-blue vat dyestuffs and making same. No. 1,028,911; June 11; Sp. p. 1831; Gaz. vol. 179; p. 318.
Schmidt, Albrecht, Heinrich Rössner, and H. Balhorn, assignors to Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany. Manufacture of brominated blue indigo dyestuffs. No. 1,043,468; Nov. 5; Gaz. vol. 184; p. 152.
Schmidt, Charles, assignor, by mesne assignments, to Packard Motor Car Company, Detroit, Mich. Transmission-gearing for motor-vehicles. No. 1,013,450; Jan. 2; Sp. p. 786; Gaz. vol. 174; p. 126.
Schmidt, Charles H. (See Sloan, John A., assignor.)
Schmidt, Charles L. (See Stevens, William P., assignor.)
Schmidt, Curt, near Freienwalde-on-the-Oder, Germany. Radio-active material. No. 1,032,779; July 16; Gaz. vol. 180; p. 750.
Schmidt, Curt, Freienwalde-on-the-Oder, Germany. Radio-active material. No. 1,032,951; July 16; Gaz. vol. 180; p. 806.
Schmidt, David H., Stewartsville, Mo. Fly-trap. No. 1,013,320; Jan. 2; Sp. p. 516; Gaz. vol. 174; p. 82.
Schmidt, Edward G. (See Clinger, Thomas H., assignor.)
Schmidt, Emil C. R., Rochester, N. Y. Chest-protector. No. 1,016,444; Feb. 6; Sp. p. 477; Gaz. vol. 175; p. 73.
Schmidt, Ernest H., assignor to The National Malleable Castings Company, Cleveland, Ohio. Coupling mechanism for locomotives. No. 1,016,782; Feb. 6; Sp. p. 1230; Gaz. vol. 175; p. 190.
Schmidt, Ernest H., assignor to The National Malleable Castings Company, Cleveland, Ohio. Uncoupling mechanism for car-couplings. No. 1,016,854; Feb. 6; Sp. p. 1374; Gaz. vol. 175; p. 212.
Schmidt, Ernest H., assignor to The National Malleable Castings Company, Cleveland, Ohio. Coupling. No. 1,017,630; Feb. 13; Sp. p. 3052; Gaz. vol. 175; p. 514.
Schmidt, Ernest H., assignor to The National Malleable Castings Company, Cleveland, Ohio. Car-platform. No. 1,019,725; Mar. 5; Sp. p. 1558; Gaz. vol. 176; p. 242.
Schmidt, Ernest H., assignor to The National Malleable Castings Company, Cleveland, Ohio. Centering device for radial-draft gears. No. 1,020,389; Mar. 12; Sp. p. 2912; Gaz. vol. 176; p. 493.
Schmidt, Ernest H., assignor to The National Malleable Castings Company, Cleveland, Ohio. Centering device for car-couplings. No. 1,022,334; Apr. 2; Sp. p. 1220; Gaz. vol. 177; p. 195.
Schmidt, Ernest H., assignor to The National Malleable Castings Company, Cleveland, Ohio. Uncoupling mechanism for car-couplings. No. 1,026,705; May 21; Sp. p. 3548; Gaz. vol. 178; p. 619.
Schmidt, Felix, Chicago, Ill. Keyed zither. No. 1,047,307; Dec. 17; Gaz. vol. 185; p. 596.
Schmidt, Ferdinand L. (See Froehlich, Joseph, assignor.)
Schmidt, Frank M., Havre de Grace, Md. Tailor's measuring apparatus. No. 1,037,058; Aug. 27; Gaz. vol. 181; p. 1003.
Schmidt, Franz, Dusseldorf, assignor to Rheinische Metallwaaren- und Maschinenfabrik, Dusseldorf-Derendorf, Germany. Automatic gun. No. 1,033,625; July 23; Gaz. vol. 180; p. 1071.
Schmidt, Frederick W. (See Wild, Günther P., assignor.)
Schmidt, Fritz W., New Holstein, Wis. Guard-attaching bracket. No. 1,021,802; Apr. 2; Sp. p. 99; Gaz. vol. 177; p. 20.
Schmidt, Georg. (See List and Schmidt.)
Schmidt, Godfrey P., New York, N. Y. Top. No. 1,046,657; Dec. 10; Gaz. vol. 185; p. 338.
Schmidt, Godfrey P., assignor to H. A. Cuppy, New York, N. Y. Cutting machinery. No. 1,025,927; May 7; Sp. p. 1828; Gaz. vol. 178; p. 282.
Schmidt, Gottfried, Hazleton, Pa. Air-pump. No. 1,015,087; Jan. 16; Sp. p. 4434; Gaz. vol. 174; p. 746.
Schmidt, Henry. (See Mullen, George B., assignor.)
Schmidt, Herman A., Chicago, Ill. Electric bell. No. 1,037,059; Aug. 27; Gaz. vol. 181; p. 1003.
Schmidt, Jens E., Hessle, near Kingston-upon-Hull, England. Machine or appliance for dealing playing-cards. No. 1,028,286; June 4; Sp. p. 489; Gaz. vol. 179; p. 71.
Schmidt, John C., assignor to Famous Door Check Company, Chicago, Ill. Door-check. No. 1,021,803; Apr. 2; Sp. p. 100; Gaz. vol. 177; p. 20.
Schmidt, John L., Jeffersonville, N. Y. Nail-set. No. 1,038,207; Sept. 10; Gaz. vol. 182; p. 377.
Schmidt, Josef, Villingen, Germany. Cuckoo-clock. No. 1,041,177; Oct. 15; Gaz. vol. 183; p. 575.
Schmidt, Louis J., Two Rivers, Wis. Stall-guard for animals. No. 1,047,994; Dec. 24; Gaz. vol. 185; p. 861.
Schmidt, Louis M. (See Brown, Frederick W., assignor.)
Schmidt, Louis M., *et al.* (See Hastings, Glover S., assignor.)
Schmidt, Louis M., Lynn, Mass., assignor to General Electric Company. Current-transformer. No. 1,022,880; Apr. 9; Sp. p. 2402; Gaz. vol. 177; p. 411.
Schmidt, Otto. (See Holt and Schmidt.)
Schmidt, Otto, Haspe, Germany. Flame-extinguisher. No. 1,031,203; July 2; Gaz. vol. 180; p. 126.
Schmidt, Otto, Mannheim, assignor to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Chlor-aralkyl-sulfonic acids and making such compounds. No. 1,025,652; May 7; Sp. p. 1223; Gaz. vol. 178; p. 188.
Schmidt, Otto, Mannheim, assignor to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Chlor-aralkyl-sulfo-chlorids and making them. No. 1,027,908; May 28; Sp. p. 6210; Gaz. vol. 178; p. 1066.
Schmidt, Otto, assignor to Gesellschaft Otto Schmidt's Patent Herculessteine m. b. H., Dresden, Germany. Artificial grindstone. No. 1,044,261; Nov. 12; Gaz. vol. 184; p. 455.
Schmidt, Otto, Mannheim, G. Lutz, Ludwigshafen-on-the-Rhine, and T. Eichler, Mannheim, assignors to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Cellulose-ester solution. No. 1,045,895; Dec. 3; Gaz. vol. 185; p. 34.
Schmidt, Otto A., assignor to The Hoffmann Manufacturing Company, Limited, Chelmsford, England. Machine for grinding rollers. No. 1,018,930; Feb. 27; Sp. p. 5975; Gaz. vol. 175; p. 1030.
Schmidt, Otto A., assignor to The Hoffmann Manufacturing Company, Limited, Chelmsford, England. Shaft-hanger. No. 1,043,631; Nov. 5; Gaz. vol. 184; p. 208.
Schmidt, Paul, Hanover, Germany. Gas-furnace for heating, scaling, and hardening purposes. No. 1,026,885; May 21; Sp. p. 3957; Gaz. vol. 178; p. 681.
Schmidt, Paul C., Detroit, Mich. Nut-lock. No. 1,016,367; Feb. 6; Sp. p. 286; Gaz. vol. 175; p. 45.
Schmidt, Peter G., Olympia, Wash. Treating gases. No. 1,026,227; May 14; Sp. p. 2514; Gaz. vol. 178; p. 421.
Schmidt, Wilhelm, Wilhelmshöhe, near Cassel, assignor to Schmidt'sche Heissdampf-Gesellschaft m. b. H., Cassel, sel, Germany. Combined reciprocating engine and turbine plant. No. 1,044,693; Nov. 19; Gaz. vol. 184; p. 636.
Schmidt, Wilhelm, Wilhelmshöhe, near Cassel, assignor to Schmidt'sche Heissdampf Gesellschaft m. b. H., Cassel, Germany. Device for removing water from heated pistons. No. 1,047,710; Dec. 17; Gaz. vol. 185; p. 737.
Schmidt, Wilhelm, and P. Thomsen, Cassel-Wilhelmshöhe, assignors to Schmidt'sche Heissdampf-Gesellschaft m. b. H., Cassel, Germany. Smoke-tube superheater. No. 1,049,155; Dec. 31; Gaz. vol. 185; p. 1296.
Schmidt, William. (See Bixler, William D., assignor.)
Schmidt, William. (See Cox and Schmidt.)
Schmidt'sche Heissdampf Gesellschaft m. b. H. (See Schmidt, Wilhelm, assignor.)
Schmidt'sche Heissdampf-Gesellschaft m. b. H. (See Schmidt and Thomsen, assignors.)
Schmitt, Charles F. E. O. (See Behr and Schmitt.)
Schmitt, Edward D., assignor to The Pure Food Process Company, Baltimore, Md. Jar cap or closure. No. 1,025,314; May 7; Sp. p. 459; Gaz. vol. 178; p. 73.
Schmitt, Edward D., assignor to The Pure Food Process Company, Baltimore, Md. Preserving food products. No. 1,041,518; Oct. 15; Gaz. vol. 183; p. 688.
Schmitt, Edward D., assignor to American Bottle Cap Company, Baltimore, Md. Cap or closure for milk and other bottles. No. 1,026,282; May 14; Sp. p. 2624; Gaz. vol. 178; p. 439.
Schmitt, Eugene E., assignor to Rogers-Schmitt Wire & Iron Co., St. Louis, Mo. Display-stand. No. 1,048,354; Dec. 24; Gaz. vol. 185; p. 981.
Schmitt, Frederick F., Philadelphia, Pa. Mattress. No. 1,014,261; Jan. 9; Sp. p. 2606; Gaz. vol. 174; p. 434.
Schmitt, Henry G., Elmira, N. Y. Heel-clamp. No. 1,016,961; Feb. 13; Sp. p. 1629; Gaz. vol. 175; p. 286.
Schmitt, Herman H., Creswell, Oreg. Shock-absorber. No. 1,031,381; July 2; Gaz. vol. 180; p. 186.
Schmitt, John O., Cleveland, Ohio. Combined stuffing-box and shaft-bearing. No. 1,025,884; May 7; Sp. p. 1738; Gaz. vol. 178; p. 268.
Schmitt, Joseph, Minneapolis, Minn. Combination brush and comb. No. 1,038,793; Sept. 17; Gaz. vol. 182; p. 616.

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Schmitt, Joseph A., Cleveland, Ohio. Type-writer keyboard. No. 1,030,020; June 18; Sp. p. 4250; Gaz. vol. 179; p. 736.
Schmitt, Martin, Brooklyn, N. Y. Adapter-box. No. 1,048,896; Dec. 31; Gaz. vol. 185; p. 1208.
Schmitt, Peter A., Hamburg, Germany. Producing food-fats. No. 1,034,036; July 30; Gaz. vol. 180; p. 1240.
Schmitt, Rudolf, assignor to Maschinenfabrik Schnarr & Schmitt, Frankfort-on-the-Main, Germany. Cigar-making machine. No. 1,025,885; May 7; Sp. p. 1740; Gaz. vol. 178; p. 268.
Schmitt, William. (See Leclerc and Schmitt.)
Schmittberger, Joseph, West Hoboken, N. J. Door-lock. No. 1,036,346; Aug. 20; Gaz. vol. 181; p. 731.
Schmittberger, Joseph, West Hoboken, N. J. Sash-lock. No. 1,036,347; Aug. 20; Gaz. vol. 181; p. 731.
Schmittberger, Joseph, Weehawken Heights, N. J. Sliding-door lock. No. 1,036,348; Aug. 20; Gaz. vol. 181; p. 732.
Schmittke, Charles, *et al.* (See Powers, Francis S., assignor.)
Schmittke, John, *et al.* (See Powers, Francis S., assignor.)
Schmitz & Co. G. m. b. H. (See Schmitz and Stalmann, assignors.)
Schmitz, Jacob, and G. Stalmann, Dusseldorf, Germany, assignors to Firm of Schmitz & Co. G. m. b. H. Manufacturing camphene. No. 1,030,334; June 25; Sp. p. 4966; Gaz. vol. 179; p. 885.
Schmitz, Jakob A., Washington, Pa. Nut-lock. No. 1,046,869; Dec. 10; Gaz. vol. 185; p. 412.
Schmoulousky, Leon, Matteawan, N. Y. Manufacturing hats and other articles. No. 1,020,314; Mar. 12; Sp. p. 2772; Gaz. vol. 176; p. 469.
Schmucker, Edwin B., Norfolk, Va. Fish-line holder. No. 1,016,783; Feb. 6; Sp. p. 1231; Gaz. vol. 175; p. 190.
Schmucker, William G., Ben Avon, Pa. Shade-holder. No. 1,039,198; Sept. 24; Gaz. vol. 182; p. 769.
Schnaier, Milton. (See Schodde, George W., assignor.)
Schnaus, Charles J., assignor to Emerson Electric Mfg. Co., St. Louis, Mo. Friction-hinge. No. 1,015,347; Jan. 23; Sp. p. 4991; Gaz. vol. 174; p. 861.
Schneible, Joseph, Chicago, Ill. Separator. No. 1,043,974; Nov. 12; Gaz. vol. 184; p. 358.
Schneider, Adolph F., Elizabeth, N. J. Milk-pail and cover. No. 1,047,574; Dec. 17; Gaz. vol. 185; p. 689.
Schneider, Alfred, Rockville, Conn. Woven-wire fence. No. 1,014,525; Jan. 9; Sp. p. 3148; Gaz. vol. 174; p. 523.
Schneider, Anna M., Los Angeles, Cal. Armor. No. 1,021,804; Apr. 2; Sp. p. 102; Gaz. vol. 177; p. 20.
Schneider, Anna M., Los Angeles, Cal. Hook and eye. No. 1,037,334; Sept. 3; Gaz. vol. 182; p. 52.
Schneider, Anthony, Jersey City, N. J., assignor to Seidenberg & Company, New York, N. Y. Wrapper for cigars. No. 1,028,498; June 4; Sp. p. 961; Gaz. vol. 179; p. 144.
Schneider, Charles C., assignor of one-half to J. H. Cutter, St. Louis, Mo. Apparatus for laying and piling cloth. No. 1,036,011; Aug. 20; Gaz. vol. 181; p. 610.
Schneider, Charles J. and J., J. H. Loeffler, and C. Fleck, West Hoboken, N. J. Hose-conveyer. No. 1,028,612; June 4; Sp. p. 1193; Gaz. vol. 179; p. 182.
Schneider, Charles P. E., Le Creuzot, France. Breech-operating mechanism of ordnance. No. 1,020,577; Mar. 19; Sp. p. 3345; Gaz. vol. 176; p. 594.
Schneider, Daniel, Spokane, Wash. Spark-arrester. No. 1,032,302; July 9; Gaz. vol. 180; p. 543.
Schneider, Eberhard, New York, N. Y. Consecutive-view-perforating apparatus. No. 1,028,287; June 4; Sp. p. 492; Gaz. vol. 179; p. 72.
Schneider, Eberhard, New York, N. Y. Photographic-printing machine. No. 1,031,820; July 9; Gaz. vol. 180; p. 380.
Schneider, Edward A. (See Deal, Enan M., assignor.)
Schneider, Edward B., and F. Herrick, Mountain, Wis. Adjustable track-gage. No. 1,032,509; July 16; Gaz. vol. 180; p. 657.
Schneider, Edward J. (See O'Neil, Schneider, and Kellett.)
Schneider, Edward J., Hollywood, W. R. Ritchie and W. Kammerer, Colegrove, Cal. Automatic self-packing plunger-pump. No. 1,019,371; Mar. 5; Sp. p. 848; Gaz. vol. 176; p. 126.
Schneider, Eugène, Le Creuzot, France. Percussion-fuse. No. 1,014,183; Jan. 9; Sp. p. 2419; Gaz. vol. 174; p. 406.
Schneider, Eugene, Le Creuzot, France. Breech mechanism of firearms. No. 1,016,179; Jan. 30; Sp. p. 6749; Gaz. vol. 174; p. 1173.
Schneider, Eugène, Le Creuzot, France. Percussion-fuse for explosive projectiles. No. 1,016,368; Feb. 6; Sp. p. 287; Gaz. vol. 175; p. 45.
Schneider, Eugène, Le Creuzot, France. Torpedo-launching tube. No. 1,024,424; Apr. 23; Sp. p. 5701; Gaz. vol. 177; p. 992.
Schneider, Eugène, Le Creuzot, France. Breech mechanism of guns. No. 1,032,780; July 16; Gaz. vol. 180; p. 751.
Schneider, Eugène, Le Creuzot, France. Explosive projectile. No. 1,039,199; Sept. 24; Gaz. vol. 182; p. 769.
Schneider, Eugène, Le Creuzot, France. Regulating device for hydraulic transmission. No. 1,040,430; Oct. 8; Gaz. vol. 183; p. 285.
Schneider, Eugene W., New York, N. Y. Device for aiding the hearing. No. 1,040,429; Oct. 8; Gaz. vol. 183; p. 284.
Schneider, Eugene W., assignor to The Mears Ear Phone Company, New York, N. Y. Device for aiding the hearing. No. 1,040,428; Oct. 8; Gaz. vol. 183; p. 284.
Schneider, Franklin, assignor to The Van Dorn & Dutton Company, Cleveland, Ohio. Electric switch. No. 1,047,575; Dec. 17; Gaz. vol. 185; p. 690.
Schneider, Frederick, Fort Leavenworth, Kans., assignor of one-fourth to S. F. McDonald, Memphis, Tenn., and one-fourth to G. F. Weller, Leavenworth, Kans. Radiator. No. 1,029,468; June 11; Sp. p. 3044; Gaz. vol. 179; p. 509.
Schneider, Frederick D., Bedford, Ohio. Puncture-alarm. No. 1,025,100; Apr. 30; Sp. p. 7205; Gaz. vol. 177; p. 1262.
Schneider, Frederick J., New York, N. Y. Feathering paddle-wheel. No. 1,027,217; May 21; Sp. p. 4728; Gaz. vol. 178; p. 794.
Schneider, Frederick W. A., Toronto, Ontario, Canada. Electric cartridge-fuse. No. 1,016,646; Feb. 6; Sp. p. 951; Gaz. vol. 175; p. 143.
Schneider, Fritz, Madretsch, near Bienne, Switzerland. Fire-escape. No. 1,029,768; June 18; Sp. p. 3686; Gaz. vol. 179; p. 650.
Schneider, George J., Detroit, Mich. Automatic controlling-switch for electric circuits. No. 1,046,499; Dec. 10; Gaz. vol. 185; p. 283.
Schneider, Gottleib, Bluffton, Ind. Fence-post. No. 1,044,921; Nov. 19; Gaz. vol. 184; p. 715.
Schneider, Gustav, C. W. Rutenbeck, and H. Hill, Cleveland, Ohio. Memograph or reminder-clock. No. 1,019,193; Mar. 5; Sp. p. 414; Gaz. vol. 176; p. 65.
Schneider, Hans, Nuremberg, Germany. Hair-clipping machine. No. 1,016,855; Feb. 6; Sp. p. 1376; Gaz. vol. 175; p. 212.
Schneider, Harry, New York, N. Y. Raising beam-scale. No. 1,029,949; June 18; Sp. p. 4107; Gaz. vol. 179; p. 713.
Schneider, Henry, Portland, assignor of one-half O. Wissinger, Milwaukee, Oreg. Hay raking and cocking machine. No. 1,048,595; Dec. 31; Gaz. vol. 185; p. 1102.
Schneider, Herman, St. Louis, Mo. Croze-cutting tool. No. 1,017,329; Feb. 13; Sp. p. 2437; Gaz. vol. 175; p. 414.
Schneider, Jaquet & Cie., G. m. b. H. (See Jaquet, Charles, assignor.)
Schneider, James W., Tacoma, Wash. Edge trimmer and burnisher for shoe-soles. No. 1,042,607; Oct. 29; Gaz. vol. 183; p. 1122.
Schneider, John. (See Schneider, Loeffler, and Fleck.)
Schneider, John L., *et al.* (See Germonprez, John A., assignor.)
Schneider, Leopold C., Philadelphia, Pa., assignor to The Philadelphia Pipe Bending Company. Double-pipe condenser. No. 1,016,582; Feb. 6; Sp. p. 810; Gaz. vol. 175; p. 121.
Schneider, Lorenz, Jonesboro, Ark. Combination feed-trough and water-fountain. No. 1,030,130; June 18; Sp. p. 4475; Gaz. vol. 179; p. 773.
Schneider, Louis. (See Pine and Schneider.)
Schneider, Magdalena, Jersey City, N. J. Hat-pin guard. No. 1,013,957; Jan. 9; Sp. p. 1948; Gaz. vol. 174; p. 330.
Schneider, Max M., assignor to The Pullman Company, Chicago, Ill. Electric wiring for railway-cars. No. 1,042,608; Oct. 29; Gaz. vol. 183; p. 1122.
Schneider & Naujoks Elektrizitats-Gesellschaft mit beschrankter Haftung Dr. Ing. (See Naujoks, Rudolf, assignor.)
Schneider, Paul, Webster Groves, Mo. Cushion-tire. No. 1,040,431; Oct. 8; Gaz. vol. 183; p. 285.
Schneider, Peter. (See Armitage, Joseph, assignor.)
Schneider, Philipp, St. Charles, Mo. Boot-cleaner. No. 1,042,977; Oct. 29; Gaz. vol. 183; p. 1249.
Schneider, Robert E., Trenton, N. J. Lighting device. No. 1,049,002; Dec. 31; Gaz. vol. 185; p. 1244.
Schneider, Rudolf, Washington, D. C. Closure for tubes and the like. No. 1,048,897; Dec. 31; Gaz. vol. 185; p. 1208.
Schneider, Stefan, Chicago, Ill. Ball-bearing. No. 1,026,463; May 14; Sp. p. 3035; Gaz. vol. 178; p. 500.
Schneider, Walter C., assignor of one-third to O. G. Moebs, Detroit, Mich. Transmission-gearing. No. 1,044,582; Nov. 19; Gaz. vol. 184; p. 597.
Schnelbach, Harry A., Crafton, Pa., assignor to Jefferson Glass Company, Follansbee, W. Va. Shade or globe for lamps. No. 1,041,886; Oct. 22; Gaz. vol. 183; p. 851.
Schnelbach, Henry. (See Deakin and Schnelbach.)
Schnelle, Friedrich O., Frankfort-on-the-Main, Germany. Electrically charging electrostatic separating devices. No. 1,026,464; May 14; Sp. p. 3036; Gaz. vol. 178; p. 501.
Schnellsetzmaschinengesellschaft mit beschränkter Haftung. (See Drewell, Heinrich, assignor.)
Schnetzler, Karl, assignor to Actiengesellschaft Brown, Boveri & Cie., Baden, Switzerland. Driving of single-phase motors. No. 1,046,500; Dec. 10; Gaz. vol. 185; p. 283.

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Schniewindt, Friedrich, Neuenrade, Germany. Resistance-net. No. 1,031,204; July 2; Gaz. vol. 180; p. 126.
Schnitzler, Charles, Oil City, Cal. Automatic safety-trip for engines. No. 1,028,397; June 4; Sp. p. 735; Gaz. vol. 179; p. 111.
Schnitzler, Oscar. (See Reuss and Schnitzler.)
Schnoor, Peter J. A., Holstein, Iowa. Trolley. No. 1,019,848; Mar. 12; Sp. p. 1798; Gaz. vol. 176; p. 314.
Schnorr, Frederick J., Two Rivers, Wis. Envelop. No. 1,025,837; May 7; Sp. p. 1592; Gaz. vol. 178; p. 252.
Schnorr, Frederick J., Two Rivers, Wis. Cutting device. No. 1,049,156; Dec. 31; Gaz. vol. 185; p. 1296.
Schnuettgen, Louis, *et al.* (See Lake, Albert D., assignor.)
Schnurrenberger, Emil, assignor to Weidmann Silk Dyeing Co., Paterson, N. J. Degumming silk. No. 1,026,000; May 14; Sp. p. 1986; Gaz. vol. 178; p. 342.
Schnyder, Adolf P., Poag, Ill. Sand-well casing and apparatus for sinking the same. No. 1,038,973; Sept. 17; Gaz. vol. 182; p. 677.
Schock, Gustav, New York, N. Y. Food product. No. 1,014,099; Jan. 9; Sp. p. 2258; Gaz. vol. 174; p. 377.
Schodde, George W., assignor, by mesne assignments, to M. Schnaier, New York, N. Y. Area-drain. No. 1,035,480; Aug. 13; Gaz. vol 181; p. 396.
Schodde, George W., assignor to F. J. Meyer, New York, N. Y. Area-cesspool. No. 1,041,887; Oct. 22; Gaz. vol. 183; p. 851.
Schodt, Paul G. de, Namur, Belgium. Gas-lighting. No. 1,021,805; Apr. 2; Sp. p. 103; Gaz. vol. 177; p. 20.
Schoell, Reinhold, assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Lock. No. 1,020,847; Mar. 19; Sp. p. 3651; Gaz. vol. 176; p. 685.
Schoell, Reinhold, assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Knob-spindle and lock. No. 1,044,262; Nov. 12; Gaz. vol. 184; p. 456.
Schoen, Charles F., assignor of one-half to W. J. Weiss, Frenchtown, N. J. Hub-boring machine. No. 1,045,329; Nov. 26; Gaz. vol. 184; p. 884.
Schoen, Charles T., Media, Pa. Shock-absorber for vehicles. No. 1,035,913; Aug. 20; Gaz. vol. 181; p. 579.
Schoen, Charles T., Media, Pa. Shock-absorber for vehicles. No. 1,038,446; Sept. 10; Gaz. vol. 182; p. 462.
Schoen, Charles T., Media, Pa. Resilient tire. No. 1,040,432; Oct. 8; Gaz. vol. 183; p. 285.
Schoenbauer, Karl. (See Boa and Schoenbauer.)
Schoenbroon, Sultan, Pittsburgh, Pa. Electric steam-generator. No. 1,028,912; June 11; Sp. p. 1833; Gaz. vol. 179; p. 318.
Schoeneck, Conrad C., Syracuse, N. Y. Casing for incandescent-electric-lamp sockets. No. 1,025,928; May 7; Sp. p. 1829; Gaz. vol. 178; p. 282.
Schoenfeld, Morris, Rorschach, Switzerland. Embroidering-machine. No. 1,024,867; Apr. 30; Sp. p. 6732; Gaz. vol. 177; p. 1185.
Schoenfeld, Morris, Rorschach, Switzerland. Embroidering-machine. No. 1,024,911; Apr. 30; Sp. p. 6819; Gaz. vol. 177; p. 1199.
Schoenfeld, Morris, Rorschach, Switzerland. Embroidering-machine. No. 1,024,912; Apr. 30; Sp. p. 6825; Gaz. vol. 177; p. 1200.
Schoenhaar, William A., Wilmington, Del. Heat-distributing device for gas-ranges. No. 1,048,355; Dec. 24; Gaz. vol. 185; p. 982.
Schoening, William A., Chicago, Ill. Scaffold-bracket. No. 1,025,886; May 7; Sp. p. 1742; Gaz. vol. 178; p. 269.
Schoenky, August R., assignor to Champion Shoe Machinery Company, St. Louis, Mo. Work-feeding mechanism for sewing-machines. No. 1,032,303; July 9; Gaz. vol. 180; p. 543.
Schoenky, August R., Somerville, assignor to The Reece Shoe Machinery Company, Boston, Mass. Rounding-machine. No. 1,040,433; Oct. 8; Gaz. vol. 183; p. 285.
Schoenmehl, Charles B., Waterbury, Conn. Battery-element support. No. 1,028,613; June 4; Sp. p. 1195; Gaz. vol. 179; p. 182.
Schoenmehl, Charles B., Waterbury, Conn. Primary battery. No. 1,028,614; June 4; Sp. p. 1197; Gaz. vol. 179; p. 183.
Schoenmehl, Charles B., Waterbury, Conn. Primary battery. No. 1,044,922; Nov. 19; Gaz. vol. 184; p. 715.
Schoenmehl, Charles B., Waterbury, Conn. Cord-terminal. No. 1,044,923; Nov. 19; Gaz. vol. 184; p. 715.
Schoentag, David, Glasco, and E. J. Latus, Albany, N. Y. Liquid-hydrocarbon distributer for roads. No. 1,028,288; June 4; Sp. p. 495; Gaz. vol. 179; p. 72.
Schoenthaler, Edward F., Long Branch, N. J. Safety drawbridge attachment. No. 1,041,359; Oct. 15; Gaz. vol. 183; p. 636.
Schoenthaler, John. (See Drugan and Schoenthaler.)
Schoeppl, Joseph F., Baltimore, Md. Metallic-weave construction for bottle-holders and other frames. No. 1,027,358; May 21; Sp. p. 5002; Gaz. vol. 178; p. 843.
Schoettger, Fritz A., Enterprise, Nebr. Pusher and manure-spreader. No. 1,045,753; Nov. 26; Gaz. vol. 184; p. 1035.
Schoettle, Edwin J., Philadelphia, Pa. Tube-making machine. No. 1,031,965; July 9; Gaz. vol. 180; p. 429.
Schoettle, Edwin J., Philadelphia, Pa. Display-box. No. 1,046,337; Dec. 3; Gaz. vol. 185; p. 188.
Schoettle, Edwin J., and C. A. Garrett, Philadelphia, Pa. Paper-severing attachment for paper-box machines. No. 1,032,781; July 16; Gaz. vol. 180; p. 751.
Schoettle, William G., Chicago, Ill., assignor to J. P. Bird, Worcester, Mass. Machine for turning in the edges of the coating-paper of boxes. No. 1,046,658; Dec. 10; Gaz. vol. 185; p. 338.
Schofer, Friedrich, Waiblingen, near Stuttgart, Germany. Combined smoke and ventilation shaft. No. 1,023,530; Apr. 16; Sp. p. 3772; Gaz. vol. 177; p. 667.
Schoff, Henry W., River Forest, Ill. Liquid-fuel burner. No. 1,027,506; May 28; Sp. p. 5313; Gaz. vol. 178; p. 931.
Schofield, George, Brooklyn, N. Y. Hat-brim-stretching machine. No. 1,013,321; Jan. 2; Sp. p. 518; Gaz. vol. 174; p. 82.
Schofield, John G. (See Powers and Schofield.)
Schofield, Thomas. (See Bradley, William, assignor.)
Scholefeld, Herman K., Kailua, Hawaii. Switch for trolley-conveyers. No. 1,020,453; Mar. 19; Sp. p. 3059; Gaz. vol. 176; p. 554.
Scholfield, Joseph J. (See Stewart, William, assignor.)
Scholfield, Socrates, Providence, R. I. Appliance for illustrating the specific relation that exists between the faculties of sensation and emotion in the animal organism. No. 1,019,703; Mar. 5; Sp. p. 1509; Gaz. vol. 176; p. 234.
Scholl, Franz, assignor to Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany. Black disazo dyestuff and making same. No. 1,028,140; June 4; Sp. p. 133; Gaz. vol. 179; p. 20.
Scholl, Franz, assignor to Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany. Black disazo-dyestuffs and making same. No. 1,029,639; June 18; Sp. p. 3396; Gaz. vol. 179; p. 605.
Scholl, Franz, assignor to Farbwerke vorm, Meister Lucius & Brüning, Höchst-on-the-Main, Germany. Black monoazo dyestuffs and making same. No. 1,032,433; July 16; Gaz. vol. 180; p. 631.
Scholl, Franz, and W. Tropp, assignors to Farbwerke vorm. Meister Lucius & Bruning, Höchst-on-the-Main, Germany. Brown azo dyestuff and making same. No. 1,043,873; Nov. 12; Gaz. vol. 184; p. 321.
Scholl, Henry G., Hoboken, Pa. Cuspidor. No. 1,021,073; Mar. 26; Sp. p. 4385; Gaz. vol. 176; p. 813.
Scholl, Peter, Chicago, Ill. Phonograph-record cabinet. No. 1,015,844; Jan. 30; Sp. p. 6058; Gaz. vol. 174; p. 1057.
Scholl, Peter, Chicago, Ill. Device to facilitate the regulation of watches. No. 1,042,609; Oct. 29; Gaz. vol. 183; p. 1123.
Scholler, Charles J., assignor to The Keystone Manufacturing Company, Buffalo, N. Y. Hand-ratchet for drills, &c. No. 1,021,558; Mar. 26; Sp. p. 5438; Gaz. vol. 176; p. 979.
Scholz, Ida, Altena, Germany. Apparatus for drying hair. No. 1,037,548; Sept. 3; Gaz. vol. 182; p. 126.
Scholz, Leopold F., New York, N. Y. Refuse-wagon. No. 1,026,465; May 14; Sp. p. 3038; Gaz. vol. 178; p. 501.
Schomburg, Adolf. (See Eisele, Karl, assignor.)
Schonert, Carl, Newark, N. J. Umbrella. No. 1,037,060; Aug. 27; Gaz. vol. 181; p. 1004.
Schongold, Wilhelm, Holyoke, Mass. Ironing-board cabinet. No. 1,042,826; Oct. 29; Gaz. vol. 183; p. 1199.
Schönherr, Otto. (See Wielgolaski and Schönherr.)
Schönherr, Otto, and J. Hessberger, Fiskaa, Norway, assignors to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Process and apparatus for the production of compounds of nitrogen. No. 1,032,782; July 16; Gaz. vol. 180; p. 751.
Schönherr, Otto, and J. Hessberger, Fiskaa, assignors, by mesne assignments, to Norsk Hydro-Electrisk Kvaelstofaktieselskab, Christiania, Norway. Electrode. No. 1,038,208; Sept. 10; Gaz. vol. 182; p. 377.
Schönherr, Otto, Christiania, and J. Brode, Christiansand, assignors, by mesne assignments, to Norsk Hydro-Elektrisk Kvaelstofaktieselskab, Christiania, Norway. Making nitrates and nitric acid. No. 1,039,325; Sept. 24; Gaz. vol. 182; p. 815.
Schönherz, Isaak, Vienna, Austria-Hungary, assignor to Geo. Borgfeldt & Co. Paper toy. No. 1,037,335; Sept. 3; Gaz. vol. 182; p. 52.
Schooley, Amzeye W. (See Lively, Robert H., assignor.)
Schoolfield, James E., San Francisco, Cal. Safety appliance for tramway-cars. No. 1,021,752; Mar. 26; Sp. p. 5811; Gaz. vol. 176; p. 1042.
Schoolfield, Joseph F., Greensboro, N. C. Fountain blacking-brush. No. 1,040,776; Oct. 8; Gaz. vol. 183; p. 407.
Schoolfield Safety Appliance Company, The. (See Hopkins, Wellington B., assignor.)
Schoonmaker, Charles A., assignor of one-half to E. J. Ryan, Syracuse, N. Y. Flying-machine. No. 1,020,718; Mar. 19; Sp. p. 3651; Gaz. vol. 176; p. 642.
Schoonmaker, James M., Jr., Pittsburgh, Pa. Motor fire-engine. No. 1,013,622; Jan. 2; Sp. p. 1152; Gaz. vol. 174; p. 183.

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Schoonover, James S., Indianapolis, Ind., assignor of one-half to I. W. Schick, Chicago, Ill., and M. E. Smith, Brownsburg, Ind. Combined curtain-pole and shade support. No. 1,018,633; Feb. 27; Sp. p. 5357; Gaz. vol. 175; p. 929.
Schoonover, William J., Des Moines, Iowa. Gearing device. No. 1,022,881; Apr. 9; Sp. p. 2403; Gaz. vol. 177; p. 411.
Schoop, John S., Seattle, Wash. Siphon. No. 1,048,744; Dec. 31; Gaz. vol. 185; p. 1155.
Schopbach, Charles H., Aurora, Ill. Corset. No. 1,035,481; Aug. 13; Gaz. vol. 181; p. 396.
Schopbach, Charles H., assignor to International Corset Company, Aurora, Ill. Corset. No. 1,021,489; Mar. 26; Sp. p. 5301; Gaz. vol. 176; p. 955.
Schopf, Henry S. (See O'Hara, William T., assignor.)
Schopflocher, Siegfried, Montreal, Quebec, Canada. Light-reflector. No. 1,015,348; Jan. 23; Sp. p. 4992; Gaz. vol. 174; p. 862.
Schopp, Conrad L. (See Schopp, Laurence O., assignor.)
Schopp, Laurence O., assignor of one-half to C. L. Schopp, St. Louis, Mo. Aerial-vehicle stabilizer. No. 1,040,434; Oct. 8; Gaz. vol. 183; p. 286.
Schoppe, Edward. (See Kamp and Schoppe.)
Schorn, Wilhelm, Neuss-on-the-Rhine, Germany. Controlling-valve for water-carts. No. 1,026,608; May 14; Sp. p. 3318; Gaz. vol. 178; p. 548.
Schorndorfer, Edward F., Cleveland, assignor of one-fourth to W. E. Defenbacher, Canal Dover, one-fourth to G. E. Bartholomew, Euclid, and one-fourth to J. F. Defenbacher, Canal Dover, Ohio. Window-glass-cleaning device. No. 1,027,359; May 21; Sp. p. 5006; Gaz. vol. 178; p. 844.
Schorr, Paul C., St. Paul, Minn. Outlet-box bushing. No. 1,041,888; Oct. 22; Gaz. vol. 183; p. 852.
Schorske, Henry, New York, N. Y. Coin-controlled apparatus. No. 1,024,748; Apr. 30; Sp. p. 6487; Gaz. vol. 177; p. 1142.
Schossow, Frederick A., Detroit, Mich. Water-closet. No. 1,031,876; July 9; Gaz. vol. 180; p. 400.
Schott & Gen. (See Hatfield, Henry S., assignor.)
Schott, Heinrich, Charlottenburg, assignor to Actien Gesellschaft für Anilin Fabrikation, Berlin, Germany. Organic mercury compound. No. 1,016,784; Feb. 6; Sp. p. 1233; Gaz. vol. 175; p. 190.
Schott, Louis, assignor to Cincinnati Galvanizing Company, Cincinnati, Ohio. Can with self-closing lid. No. 1,028,499; June 4; Sp. p. 962; Gaz. vol. 179; p. 145.
Schottgen, Louis, New York, N. Y. Delivery-wagon for fermented liquids. No. 1,047,452; Dec. 17; Gaz. vol. 185; p. 644.
Schou, Christian J. (See Allesöe, Jensen, and Schou.)
Schou, William L., Duarte, Cal. Automobile shock-absorber. No. 1,046,338; Dec. 3; Gaz. vol. 185; p. 188.
Schowalter, Edward J. (See Flegel, Frederick W., assignor.)
Schowalter, Edward J. (See Flegel, Harrison D., assignor.)
Schowalter, Edward J., Racine, Wis. Clothes-boiler attachment. No. 1,020,578; Mar. 19; Sp. p. 3349; Gaz. vol. 176; p. 585.
Schrader, John R., New York, N. Y., assignor to Dieter Nut Company. Lock-nut. No. 1,034,371; July 30; Gaz. vol. 180; p. 1355.
Schrader, Morris, assignor of three-fourths to S. Firestone, McKeesport, Pa. Lamp-extinguisher. No. 1,040,777; Oct. 8; Gaz. vol. 183; p. 407.
Schraeder, Frank J., Jr., Chicago, Ill. Conveying system. No. 1,014,727; Jan. 16; Sp. p. 3645; Gaz. vol. 174; p. 623.
Schraeder, Frank J., Jr., Chicago, Ill. Conveying system. No. 1,015,251; Jan. 16; Sp. p. 4749; Gaz. vol. 174; p 801.
Schram, Alexander L. (See Dixon and Schram.)
Schram, Alexander L., Hillsboro, Ill. Forming hollow glass articles. No. 1,013,451; Jan. 2; Sp. p. 788; Gaz. vol. 174; p. 126.
Schram, Alexander L., Hillsboro, Ill. Apparatus for forming hollow glass articles. No. 1,013,452; Jan. 2; Sp. p. 790; Gaz. vol. 174; p. 126.
Schram, Alexander L., Hillsboro, Ill. Glass-gathering machine. No. 1,024,228; Apr. 23; Sp. p. 5306; Gaz. vol. 177; p. 929.
Schramm, Adam, Weehawken, N. J. Animal-trap. No. 1,021,428; Mar. 26; Sp. p. 5163; Gaz. vol. 176; p. 934.
Schrauben- und Schmiedewarenfabriks Aktiengesellschaft, Brevillier & Co. und A. Urban & Söhne. (See Heller, Julius, assignor.)
Schravesande, Peter B., Montreal, Quebec, Canada. Container for small articles. No. 1,028,289; June 4; Sp. p. 498; Gaz. vol. 179; p. 73.
Schreck, Adolph, Phoenix, Ariz. Poultry-fountain. No. 1,042,040; Oct. 22; Gaz. vol. 183; p. 901.
Schreckenbach, Richard, Salzgitter, Germany. Treating raw and worked textile fibers, such as jute, hemp, flax, and the like. No. 1,017,176; Feb. 13; Sp. p. 2105; Gaz. vol. 175; p. 361.
Schreiber, Carl, Chicago, Ill. Ellipsograph. No. 1,029,515; June 11; Sp. p. 3131; Gaz. vol. 179; p. 525.
Schreiber, Ernst G., Hammond, Ind. Vehicle-truck. No. 1,040,435; Oct. 8; Gaz. vol. 183; p. 286.
Schreidt, Frank, Mansfield, Ohio. Testing apparatus. No. 1,025,163; May 7; Sp. p. 110; Gaz. vol. 178; p. 20.
Schreidt, Frank, Mansfield, Ohio. Fluid-spring for vehicles. No. 1,025,315; May 7; Sp. p. 460; Gaz. vol. 178; p. 73.
Schreier, Herman, *et al.* (See Bock, George R., assignor.)
Schreiner, Ludwig, Oehde, near Barmen, assignor to J. P. Bemberg, Aktiengesellschaft, Barmen-Rittershausen, Germany. Imparting luster to yarns, fabric, and the like. No. 1,020,117; Mar. 12; Sp. p. 2371; Gaz. vol. 176; p. 405.
Schremp, Adolph P., Utica, N. Y. Fastening device for undergarments. No. 1,018,009; Feb. 20; Sp. p. 3951; Gaz. vol. 175; p. 684.
Schremp, Edward J., New York, N. Y. Union undergarment. No. 1,034,035; Oct. 29; Gaz. vol. 183; p. 1270.
Schrey, Robert W., assignor of one-half to A. S. Fairfield, Philadelphia, Pa. Loom. No. 1,040,778; Oct. 8; Gaz. vol. 183; p. 407.
Schrödel, Georg, Nuremberg, Germany. Toy gun. No. 1,029,469; June 11; Sp. p. 3047; Gaz. vol. 179; p. 510.
Schröder, Hans W. C., J. H. and A. B. Dräger, assignors to Drägerwerk, Heinr. & Bernh. Dräger, Lübeck, Germany. Apparatus for testing gas. No. 1,033,626; July 23; Gaz. vol. 180; p. 1072.
Schrody, George A., *et al.* (See Murray, John F., assignor.)
Schroeder, Adam, Barton, Wis. Attrition-mill. No. 1,039,326; Sept. 24; Gaz. vol. 182; p. 815.
Schroeder, Adam C., Derry Station, assignor of one-half to C. Proessler, Pittsburgh, Pa. Pneumatic wheel. No. 1,019,536; Mar. 5; Sp. p. 1210; Gaz. vol. 176; p. 179.
Schroeder, Albert, Piqua, Ohio. Engineer's combination-rod. No. 1,029,470; June 11; Sp. p. 3048; Gaz. vol. 179; p. 510.
Schroeder, Albert G. (See Chamberlain and Schroeder.)
Schroeder, Anton, Belleville, Ill. Furnace. No. 1,041,889; Oct. 22; Gaz. vol. 183; p. 852.
Schroeder, Arthur. (See Eisel, Hagen, and Schroeder.)
Schroeder, Charles, Bridgeport, Conn. Skylight-bar. No. 1,016,856; Feb. 6; Sp. p. 1377; Gaz. vol. 175; p. 212.
Schroeder, Christian M. E., New York, N. Y. Paint and varnish remover. No. 1,016,445; Feb. 6; Sp. p. 479; Gaz. vol. 175; p. 73.
Schroeder, Edward J. and C. A. (See Stoddart, James, assignor.)
Schroeder, Hans C., assignor to The Goss Printing Press Company, Chicago, Ill. Folding-machine. No. 1,025,541; May 7; Sp. p. 977; Gaz. vol. 178; p. 151.
Schroeder, Hans C., assignor to The Goss Printing Press Company, Chicago, Ill. Tucker for collecting-cylinders. No. 1,048,745; Dec. 31; Gaz. vol. 185; p. 1155.
Schroeder, Hans C., assignor to The Goss Printing Press Company, Chicago, Ill. Sheet-assembling mechanism for printing-presses. No. 1,048,746; Dec. 31; Gaz. vol. 185; p. 1155.
Schroeder, Henry C., Charter Oak, Iowa. Hay-rack. No. 1,043,469; Nov. 5; Gaz. vol. 184; p. 152.
Schroeder, Henry L., Chicago, Ill. Baker's peel. No. 1,017,177; Feb. 13; Sp. p. 2107; Gaz. vol. 175; p. 361.
Schroeder, Herman O., Elkhorn, Nebr. Securing device for coin-receptacles. No. 1,021,634; Mar. 26; Sp. p. 5583; Gaz. vol. 176; p. 1003.
Schroeder, John W., Freeman, S. D. Fastening for wagon end-gates. No. 1,040,779; Oct. 8; Gaz. vol. 183; p. 408.
Schroeder, Origenus J., Larned, Kans. Railway-joint. No. 1,013,689; Jan. 2; Sp. p. 1340; Gaz. vol. 174; p. 208.
Schroeder, Simon E., Minier, Ill. Wringer. No. 1,048,215; Dec. 24; Gaz. vol. 185; p. 935.
Schroeder, Walter L. (See Slaybaugh and Schroeder.)
Schroeder, William A., and A. J. Nolte, St. Louis, Mo. Boring-bar. No. 1,043,874; Nov. 12; Gaz. vol. 184; p. 322.
Schroeder, William S., Austin, Ill. Car-ladder. No. 1,024,654; Apr. 30; Sp. p. 6290; Gaz. vol. 177; p. 1108.
Schroeder, William S., Chicago, Ill., assignor to The National Malleable Castings Company, Cleveland, Ohio. Car-coupling. No. 1,022,335; Apr. 2; Sp. p. 1222; Gaz. vol. 177; p. 195.
Schröter, Karl, Berlin, Germany, assignor to General Electric Company. Shaping and mounting filaments. No. 1,013,958; Jan. 9; Sp. p. 1949; Gaz. vol. 174; p. 330.
Schroyer, Charles A., Oak Park, Ill. Car-door. No. 1,015,405; Jan. 23; Sp. p. 5105; Gaz. vol. 174; p. 880.
Schroyer, James A. (See Hardenburgh and Schroyer.)
Schu, Frank J., Wayland, N. Y. Window-shade fixture. No. 1,037,549; Sept. 3; Gaz. vol. 182; p. 126.
Schuberg, George E. (See Woolsey, Harry J., assignor.)
Schubert, Charles W., Cottonwood, Iowa. Support for motor-cars. No. 1,037,336; Sept. 3; Gaz. vol. 182; p. 52.
Schubert, Franz B. K., assignor to Deseniss & Jacobi Actiengesellschaft, Hamburg, Germany. Balancing two-crank engines. No. 1,027,775; May 28; Sp. p. 5856; Gaz. vol. 178; p. 1019.
Schubert, Frederick, Sellersville, Pa. Case for gages and the like. No. 1,040,780; Oct. 8; Gaz. vol. 183; p. 408.
Schubert, Hermann J., Hackensack, N. J. Cast wall for buildings. No. 1,047,453; Dec. 17; Gaz. vol. 185; p. 645.

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Schubert, Joseph, James City, Pa. Clay-pot-making machine. No. 1,032,028; July 9; Gaz. vol. 180; p. 449.
Schubert, Julius J., Osseo, Minn. Potato-digger. No. 1,033,475; July 23; Gaz. vol. 180; p. 1022.
Schubert, Oscar, Kansas City, Mo. Corn and cane header. No. 1,031,472; July 2; Gaz. vol. 180; p. 218.
Schubert Piano Company, The. (See Duffy, Peter, assignor.)
Schubert & Salzer Maschinenfabrik Aktiengesellschaft. (See Heinitz, Woldemar R., assignor.)
Schuck, Henry C. (See McKeever and Schuck.)
Schuck, John, Moon Run, Pa. Rail-joint. No. 1,024,289; Apr. 23; Sp. p. 5425; Gaz. vol. 177; p. 950.
Schuermann, Anton C. (See Mueller and Schuermann.)
Schuermann, Anton C., assignor to The H. Mueller Manufacturing Company, Decatur, Ill. Supply-pipe for lavatory-fittings. No. 1,017,813; Feb. 20; Sp. p. 3494; Gaz. vol. 175; p. 614.
Schuermann, Anton C., assignor to H. Mueller Manufacturing Company, Decatur Ill. Interchangeable self-closing and compression cock. No. 1,036,012; Aug. 20; Gaz. vol. 181; p. 611.
Schuermann, Anton C., assignor to H. Mueller Manufacturing Company, Decatur, Ill. Adjustable screw-joint coupling for supply-pipes. No. 1,043,364; Nov. 5; Gaz. vol. 184; p. 115.
Schuermann, Anton C., assignor to H. Mueller Manufacturing Company, Decatur, Ill. Convertible self-closing and compression cock. No. 1,044,694; Nov. 19; Gaz. vol. 184; p. 636.
Schuetz, Frank A. (See Hamm and Schuetz.)
Schug, John B., Detroit, Mich. Mechanism for charging storage batteries. No. 1,013,959; Jan. 9; Sp. p. 1951; Gaz. vol. 174; p. 331.
Schuhmacher, Carl H., Myrtle, Minn. Ice-sawing machine. No. 1,047,308; Dec. 17; Gaz. vol. 185; p. 596.
Schuler, David, Kerrtown, Pa. Automatic presser-foot lifter for sewing-machines. No. 1,044,695; Nov. 19; Gaz. vol. 184; p. 637.
Schuler, Peter J., New Hampton, Iowa. Pressure-regulator. No. 1,045,197; Nov. 26; Gaz. vol. 184; p. 837.
Schulhoefer, Louis, *et al.* (See Lindsey, Charles E., assignor.)
Schulhof, Leo Z. (See Kronberger, Joe, assignor.)
Schulte, August J., Tacoma, Wash. Woodworking-clamp. No. 1,029,471; June 11; Sp. p. 3052; Gaz. vol. 179; p. 511.
Schulte, Edward D. N., Troy, N. Y., assignor to W. & L. E. Gurley. Die-stamp. No. 1,025,592; May 7; Sp. p. 1091; Gaz. vol. 178; p. 169.
Schulte, William H., Trenton, N. J. Valve control for flush-tanks. No. 1,013,225; Jan. 2; Sp. p. 302; Gaz. vol. 174; p. 48.
Schulte, William H., Trenton, N. J. Flushing-valve-operating mechanism. No. 1,016,714; Feb. 6; Sp. p. 1088; Gaz. vol. 175; p. 167.
Schultheis, Ludwig, Frankfort-on-the-Main, assignor to O. Wetzel & Company, Heidelberg, Germany. Lubricator for the guide-rails of elevators. No. 1,027,909; May 28; Sp. p. 6212; Gaz. vol. 178; p. 1066.
Schultz, Adam, Lilly, Pa. Toy. No. 1,034,149; July 30; Gaz. vol. 180; p. 1277.
Schultz, August, San Diego, Cal. Feed-bag. No. 1,029,148; June 11; Sp. p. 2345; Gaz. vol. 179; p. 399.
Schultz, Augustus G., and D. M. Fuller, Albany, N. Y.; said Schultz assignor to said Fuller. Fulling-machine. No. 1,022,603; Apr. 9; Sp. p. 1796; Gaz. vol. 177; p. 315.
Schultz, Carl, and S. Scheer, Richmond, Va. Washing device. No. 1,042,978; Oct. 29; Gaz. vol. 183; p. 1250.
Schultz, Carl C., Victor, Iowa. Combination manure-spreader hitch. No. 1,028,500; June 4; Sp. p. 964; Gaz. vol. 179; p. 145.
Schultz, Carl C., Victor, Iowa. Hose-coupling. No. 1,036,349; Aug. 20; Gaz. vol. 181; p. 732.
Schultz, Charles E. (See Savage and Schultz.)
Schultz, Emil W., assignor of one-half to M. H. Gaebler, Watertown, Wis. Extension-table. No. 1,040,028; Oct. 1; Gaz. vol. 183; p. 118.
Schultz, Ferdinand H., Treynor, Iowa. Animal-oiling device. No. 1,045,198; Nov. 26; Gaz. vol. 184; p. 838.
Schultz, George W., Wayne, Pa. Motor-kite flying-machine. No. 1,043,147; Nov. 5; Gaz. vol. 184; p. 35.
Schultz, Hugo A., Dorchester, Wis. Fence-wire support. No. 1,030,131; June 18; Sp. p. 4477; Gaz. vol. 179; p. 774.
Schultz, Joseph, *et al.* (See Daven, Michael P., assignor.)
Schultz, Joseph N., *et al.* (See Forst, Moritz, assignor.)
Schultz, Richard A., Chicago, Ill. Retainer for ball-bearings. No. 1,032,953; July 16; Gaz. vol. 180; p. 806.
Schultz, Richard A., assignor to V. M. Grab, Chicago, Ill. Shoe-cleaning device. No. 1,033,353; July 23; Gaz. vol. 180; p. 982.
Schultz, Richard F., Chicago, Ill. Ball-bearing and retainer therefor. No. 1,048,216; Dec. 24; Gaz. vol. 185; p. 936.
Schultz, Robert A., Maple Grove, Wis. Cheese-curd mixer. No. 1,045,896; Dec. 3; Gaz. vol. 185; p. 34.
Schultze, William, assignor to General Chemical Company, New York, N. Y. Solid compound of nitric and sulfuric anhydrids and making same. No. 1,047,576; Dec. 17; Gaz. vol. 185; p. 690.
Schultze, William H., Houston, Tex. Trolley-wheel. No. 1,023,338; Apr. 16; Sp. p. 3402; Gaz. vol. 177; p. 607.
Schulz, August, Posen, Germany. Reflecting apparatus for illuminating music. No. 1,027,910; May 28; Sp. p. 6213; Gaz. vol. 178; p. 1066.
Schulz, August F., Milwaukee, Wis. Vehicle-wheel. No. 1,027,507; May 28; Sp. p. 5315; Gaz. vol. 178; p. 931.
Schulz, Bernard, Minneapolis, Minn. Metallic fence-post. No. 1,027,442; May 28; Sp. p. 5190; Gaz. vol. 178; p. 910.
Schulz, Carl F., Brooklyn, N. Y. Carbureter. No. 1,046,111; Dec. 3; Gaz. vol. 185; p. 107.
Schulz, Christian F., Chicago, Ill. Combination table and desk. No. 1,038,974; Sept. 17; Gaz. vol. 182; p. 678.
Schulz, Fritz A., Chicago, Ill. Split collar. No. 1,029,950; June 18; Sp. p. 4109; Gaz. vol. 179; p. 713.
Schulz, Fritz A., Chicago, Ill. Clamp. No. 1,042,610; Oct. 29; Gaz. vol. 183; p. 1123.
Schulz, Fritz A., Chicago, Ill. Tilting vise. No. 1,042,611; Oct. 29; Gaz. vol. 183; p. 1124.
Schulz, John, *et al.* (See Pugh, Cortez V., assignor.)
Schulz, Otto, Charlottenburg, and W. H. Eyermann, Friedenau, near Berlin, Germany. Homopolar, acyclic, or unipolar dynamo-electric machine. No. 1,025,021; Apr. 30; Sp. p. 7035; Gaz. vol. 177; p. 1236.
Schulz, Otto C., assignor to Bauer & Black, Chicago, Ill. Machine for making surgical bandages. No. 1,026,283; May 14; Sp. p. 2627; Gaz. vol. 178; p. 439.
Schulz, Reinhold A., St. Louis, Mo. Dough-divider. No. 1,021,896; Apr. 2; Sp. p. 309; Gaz. vol. 177; p. 51.
Schulz, Richard, Berlin, Germany. Water-tube boiler. No. 1,015,349; Jan. 23; Sp. p. 4993; Gaz. vol. 174; p. 862.
Schulz, Walter F., New York, N. Y. Carbureter. No. 1,020,059; Mar. 12; Sp. p. 2235; Gaz. vol. 176; p. 385.
Schulz, Wilhelm, Houston, Tex., assignor of fifty-one one-hundredths to H. H. and G. M. Dixon, C. M. Rein, and R. C. Duff. Pipe connection. No. 1,021,378; Mar. 26; Sp. p. 5014; Gaz. vol. 176; p. 915.
Schulze, Andrew, assignor to J. C. Pennie, Washington, D. C. Manufacture of rubber shoes, boots, and the like. No. 1,032,626; July 16; Gaz. vol. 180; p. 696.
Schulze, Charles, Golden Eagle Ill. Combined wing-brace and wagon-stake socket. No. 1,048,747; Dec. 31; Gaz. vol. 185; p. 1156.
Schulze, Otto, Brooklyn, N. Y. Wave-motor. No. 1,033,476; July 23; Gaz. vol. 180; p. 1022.
Schumacher, Franz R., Chicago, Ill. Tobacco-pipe. No. 1,047,577; Dec. 17; Gaz. vol. 185; p. 690.
Schumacher, Frederick J., San Francisco, Cal. Ventilator. No. 1,013,322; Jan. 2; Sp. p. 522; Gaz. vol. 174; p. 82.
Schumacher, George, Vancouver, British Columbia, Canada. Protecting wood in salt water. No. 1,039,824; Oct. 1; Gaz. vol. 183; p. 52.
Schumacher, Gerard, Anniston, Ala. Service or valve box. No. 1,027,911; May 28; Sp. p. 6213; Gaz. vol. 178; p. 1066.
Schumacher, Gerard, Anniston, Ala. Street-light post and the like. No. 1,029,404; June 11; Sp. p. 2920; Gaz. vol. 179; p. 488.
Schumacher, Henry, Buffalo, N. Y. Steering-gear for vehicles. No. 1,030,793; June 25; Sp. p. 6211; Gaz. vol. 179; p. 1050.
Schumacher, Henry, Denver, Colo. Pneumatic hammer. No. 1,044,263; Nov. 12; Gaz. vol. 184; p. 456.
Schumacher, Lloyd E., Perrysville, Ohio. Index. No. 1,041,178; Oct. 15; Gaz. vol. 183; p. 575.
Schumacher, Peter, assignor to Corporation of Klimsch & Co., Frankfort-on-the-Main, Germany. Obtaining metal printing-plates with silver-salt gelatin emulsion. No. 1,042,827; Oct. 29; Gaz. vol. 183; p. 1199.
Schuman Company, The. (See Schuman, James B., assignor.)
Schuman, James B., assignor to The Schuman Company, Indianapolis, Ind. Shock loader and unloader. No. 1,029,322; June 11; Sp. p. 2717; Gaz. vol. 179; p. 460.
Schuman, James B., assignor to The Schuman Company, Indianapolis, Ind. Shock loader and unloader. No. 1,030,021; June 18; Sp. p. 4251; Gaz. vol. 179; p. 736.
Schuman, James B., assignor to The Schuman Company, Indianapolis, Ind. Shock-loader. No. 1,031,029; July 2; Gaz. vol. 180; p. 63.
Schumann, Christopher W., Marshalltown, Iowa. Wire-stretcher. No. 1,021,635; Mar. 26; Sp. p. 5584; Gaz. vol. 176; p. 1004.
Schumann, Frank J., Bethlehem, Pa. Vending-machine. No. 1,025,075; Apr. 30; Sp. p. 7132; Gaz. vol. 177; p. 1253.
Schumann, Frank J., Bethlehem, Pa. Vending-machine. No. 1,048,103; Dec. 24; Gaz. vol. 185; p. 898.
Schumann Piano Company. (See Anderson, Alfred, assignor.)
Schunk, Theobald, *et al.* (See Finlayson, Alexander W., assignor.)
Schupp, Jacob J. (See Schupp and Barr.)

Alphabetical list of patentees—Continued.

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Schureman, Jacob L., assignor to J. L. Schureman Co., Chicago, Ill. Electrical starting device. No. 1,030,435; June 25; Sp. p. 5179; Gaz. vol. 179; p. 921.
Schürhoff, Albert, assignor to Firm of Gebrüder Schürhoff, Gevelsberg, Germany. Machine for making molds for cast chain. No. 1,032,627; July 16; Gaz. vol. 180; p. 697.
Schürhoff, Eduard, Weissensee, near Berlin, Germany. Making compound rods or wires. No. 1,044,264; Nov. 12; Gaz. vol. 184; p. 457.
Schürhoff, Gebrüder. (See Schürhoff, Albert, assignor.)
Schuricht, Theodore J., St. Francis, Kans. Pipe-mold. No. 1,039,596; Sept. 24; Gaz. vol. 182; p. 909.
Schurle, John F., Cashmere, Wash. Weed-cutter. No. 1,047,578; Dec. 17; Gaz. vol. 185; p. 691.
Schurman, Elias W., assignor to The Randall-Faichney Company, Boston, Mass. Whistle. No. 1,031,678; July 2; Gaz. vol. 180; p. 288.
Schurtz, James O., Grand Rapids, Mich. Automatic window-lock. No. 1,016,962; Feb. 13; Sp. p. 1630; Gaz. vol. 175; p. 286.
Schussler, Herman W., Philadelphia, Pa. Telephone-stand. No. 1,030,684; June 25; Sp. p. 5913; Gaz. vol. 179; p. 1011.
Schustek, Andrew, Chicago, Ill. Mechanical movement. No. 1,018,991; Feb. 27; Sp. p. 6124; Gaz. vol. 175; p. 1052.
Schustek, Andrew, Chicago, Ill. Mechanical movement. No. 1,033,477; July 23; Gaz. vol. 180; p. 1022.
Schuster, Adalbert, Glauchau, assignor to G. Hiller, Zittau, Germany. Warp-twisting-in machine. No. 1,027,670; May 28; Sp. p. 5645; Gaz. vol. 178; p. 984.
Schuster, Albert. (See Kundtz and Schuster.)
Schuster, Carl J., Milwaukee, Wis. Hunting game. No. 1,023,176; Apr. 16; Sp. p. 3085; Gaz. vol. 177; p. 551.
Schuster, Carl J., Milwaukee, Wis. Fluid-receptacle. No. 1,025,952; May 7; Sp. p. 1886; Gaz. vol. 178; p. 289.
Schuster, Ernst W., Chicago, Ill. Key-changing device for wind musical instruments. No. 1,035,482; Aug. 13; Gaz. vol. 181; p. 396.
Schuster, Stephan W., New York, N. Y. Baking-oven. No. 1,023,483; Apr. 16; Sp. p. 3685; Gaz. vol. 177; p. 652.
Schutt, Duny A., Chicago, Ill., assignor to International Harvester Company. Grain-drill. No. 1,021,379; Mar. 26; Sp. p. 5016; Gaz. vol. 176; p. 916.
Schutt, Duny A., Chicago, Ill., assignor to International Harvester Company. Grain-drill. No. 1,026,409; May 14; Sp. p. 2918; Gaz. vol. 178; p. 483.
Schutt, Duny A., Chicago, Ill., assignor to International Harvester Company. Grain-drill. No. 1,026,410; May 14; Sp. p. 2919; Gaz. vol. 178; p. 484.
Schüttauf, Richard, assignor to Firm of C. Zeiss, Jena, Germany. Film-pack. No. 1,015,514; Jan. 23; Sp. p. 5347; Gaz. vol. 174; p. 917.
Schutte & Koerting Company. (See Koerting, Ernst, assignor.)
Schutte and Koerting Company. (See Lovekin, Luther D., assignor.)
Schutte and Koerting Company. (See Schutte, Louis, assignor.)
Schutte, Louis, assignor to Schutte and Koerting Company, Philadelphia, Pa. Valve. No. 1,031,294; July 2; Gaz. vol. 180; p. 157.
Schutz, Charles, New York, N. Y. Game apparatus. No. 1,020,315; Mar. 12; Sp. p. 2773; Gaz. vol. 176; p. 470.
Schuyler, Daniel, Bridgeport, Conn., and H. Laughlin, Jr., assignors to The Perfect Sliding Door Company, Los Angeles, Cal. Combined latch and lock for sliding doors, &c. No. 1,047,454; Dec. 17; Gaz. vol. 185; p. 645.
Schuyler, Percival R., Paterson, N. J. Heat-insulating casing for bottles. No. 1,029,827; June 18; Sp. p. 3830; Gaz. vol. 179; p. 671.
Schuyler, Wilton S., Savannah, Mo. Adjustable pulley-hanger. No. 1,018,010; Feb. 20; Sp. p. 3952; Gaz. vol. 175; p. 684.
Schwab, John, New York, N. Y. Heating-stove. No. 1,027,671; May 28; Sp. p. 5656; Gaz. vol. 178; p. 985.
Schwab, John, Winnipeg, Manitoba, Canada. Life-saving device. No. 1,043,149; Nov. 5; Gaz. vol. 184; p. 36.
Schwab, John W., Canton, Ohio. Wrench. No. 1,022,269; Apr. 2; Sp. p. 1085; Gaz. vol. 177; p. 174.
Schwab, Martin C., Chicago, Ill. Elevator. No. 1,027,628; May 28; Sp. p. 5548; Gaz. vol. 178; p. 971.
Schwab, Martin C., Chicago, Ill., assignor to Gravity Conveyor Company. Spiral blade for gravity-conveyers. No. 1,014,262; Jan. 9; Sp. p. 2607; Gaz. vol. 174; p. 435.
Schwab, Martin C., Chicago, Ill., assignor to Gravity Conveyor Company. Switch for gravity-conveyers. No. 1,047,309; Dec. 17; Gaz. vol. 185; p. 596.
Schwab, William, assignor to J. R. Wentz, Fremont, Ohio. Can-opener. No. 1,020,954; Mar. 19; Sp. p. 4138; Gaz. vol. 176; p. 721.
Schwabach, Georg, Charlottenburg, Germany. Regulating device for gas-supply plants. No. 1,037,337; Sept. 3; Gaz. vol. 182; p. 52.
Schwager, Hans, Berlin, Germany. Pocket-lamp. No. 1,027,285; May 21; Sp. p. 4863; Gaz. vol. 178; p. 819.
Schwager, Henry G., Omaha, Nebr. Adjustable support for telephone-receivers. No. 1,029,640; June 18; Sp. p. 3397; Gaz. vol. 179; p. 605.
Schwaller, Frank F., St. Louis, Mo. Bedstead. No. 1,014,670; Jan. 16; Sp. p. 3522; Gaz. vol. 174; p. 604.
Schwamb, Warren C., assignor to J. Wanamaker, Philadelphia, Pa. Metal piano-brace. No. 1,026,466; May 14; Sp. p. 3040; Gaz. vol. 178; p. 501.
Schwander, Jacob N., Cincinnati, Ohio. Shoe. No. 1,040,781; Oct. 8; Gaz. vol. 183; p. 408.
Schwanhäusser, Frederick, Jersey City, N. J., assignor to C. Beseler Co. Stereopticon. No. 1,020,371; Mar. 12; Sp. p. 2875; Gaz. vol. 176; p. 487.
Schwartz, Andrew G. L., and J. Geiger, Pittsburgh, Pa. Combined cupboard and ironing-board. No. 1,038,447; Sept. 10; Gaz. vol. 182; p. 462.
Schwartz, Charles M. B., New York, N. Y. Transfer-ticket. No. 1,040,243; Oct. 1; Gaz. vol. 183; p. 191.
Schwartz, Edward, assignor, by mesne assignments, to Pelouze Manufacturing Company, Chicago, Ill. Electrically-heated comb. No. 1,033,122; July 23; Gaz. vol. 180; p. 903.
Schwartz, Edward H., assignor to E. H. Schwartz & Son Co., Chicago, Ill. Burner. No. 1,027,912; May 28; Sp. p. 6215; Gaz. vol. 178; p. 1067.
Schwartz, Gustav, Tampa, Fla. Weight-motor. No. 1,033,830; July 30; Gaz. vol. 180; p. 1165.
Schwartz, Harry, New York, N. Y. Cigar. No. 1,013,226; Jan. 2; Sp. p. 303; Gaz. vol. 174; p. 48.
Schwarz, Heinrich, Vienna, Austria-Hungary. Roof. No. 1,024,808; Apr. 30; Sp. p. 6613; Gaz. vol. 177; p. 1163.
Schwartz, John F., San Diego, Cal. Coin-receptacle. No. 1,038,729; Aug. 27; Gaz. vol. 181; p. 893.
Schwarz, Maxim, Braunau, Austria-Hungary. Dyeing. No. 1,019,092; Mar. 5; Sp. p. 188; Gaz. vol. 176; p. 30.
Schwartz, Morris, New York, N. Y. Garment-connecting device. No. 1,029,828; June 18; Sp. p. 3831; Gaz. vol. 179; p. 672.
Schwartz, Walter M., and E. B. Ayres, assignors to The Philadelphia Textile Machinery Company, Philadelphia, Pa. Machine for making soap powder. No. 1,033,737; July 23; Gaz. vol. 180; p. 1106.
Schwartz, Wilhelm. (See Wieser and Schwartz.)
Schwartz, Wilhelm, Bredeney, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Fuse-adjusting machine. No. 1,029,146; June 11; Sp. p. 2337; Gaz. vol. 179; p. 398.
Schwartzburg, Edward H., Milwaukee, Wis., assignor to National Enameling and Stamping Company, Baltimore, Md. Insect-destroyer. No. 1,039,825; Oct. 1; Gaz. vol. 183; p. 52.
Schwartzburg, Edward H., Milwaukee, Wis., assignor to National Enameling and Stamping Company. Grain-sprouter. No. 1,039,826; Oct. 1; Gaz. vol. 183; p. 52.
Schwartzman, Jacub, Brooklyn, N. Y. Wire fabric. No. 1,042,612; Oct. 29; Gaz. vol. 183; p. 1124.
Schwartzman, Jacub, Brooklyn, N. Y., assignor to United States Cabinet Bed Co. Folding couch or bed. No. 1,042,486; Oct. 29; Gaz. vol. 183; p. 1079.
Schwarz, Charles L., Philadelphia, Pa. Wheel. No. 1,027,158; May 21; Sp. p. 4609; Gaz. vol. 178; p. 774.
Schwarz, Charles L., Philadelphia, Pa. Resilient wheel. No. 1,030,924; July 2; Gaz. vol. 180; p. 24.
Schwarz, Ernst. (See Lüttringhaus and Schwarz.)
Schwarz, Karl, Nuremberg, Germany. Two-stroke cycle combustion-engine. No. 1,028,615; June 4; Sp. p. 1199; Gaz. vol. 179; p. 183.
Schwarz, Karl, Nuremberg, Germany. Lubricating device. No. 1,039,448; Sept. 24; Gaz. vol. 182; p. 856.
Schwarz, Rudolph, Paynesville, Minn. Wrench. No. 1,018,347; Feb. 20; Sp. p. 4651; Gaz. vol. 175; p. 799.
Schwarz, Walter, Dortmund, Germany. Heat-accumulator. No. 1,018,083; Feb. 20; Sp. p. 4118; Gaz. vol. 175; p. 710.
Schwarze, Carl T. (See Stoneham and Schwarze.)
Schwarzenbach, Roland, Hornell, N. Y. Camper's outfit. No. 1,031,821; July 9; Gaz. vol. 180; p. 380.
Schwarzler, Otto J. (See Caldwell, John, assignor.)
Schwarzlose, Andreas W., Charlottenburg, Germany. Automatic firearm with fixed barrel and locked breech. No. 1,026,609; May 14; Sp. p. 3319; Gaz. vol. 178; p. 548.
Schwebel, William C. (See Polnisch, Paul, assignor.)
Schwed, Samuel, New York, N. Y. Gas-pipe coupling. No. 1,042,370; Oct. 22; Gaz. vol. 183; p. 1010.
Schweiger, William F., assignor, by mesne assignments, to The National Cash Register Company, Dayton, Ohio. Cash-register. No. 1,033,478; July 23; Gaz. vol. 180; p. 1023.
Schweiger, William F., assignor, by mesne assignments, to The National Cash Register Company, Dayton, Ohio. Motor-actuating device for registering-machines. No. 1,047,711; Dec. 17; Gaz. vol. 185; p. 738.
Schweikert, George R., Irvington, and W. E. Heinz, Newark, N. J. Chair. No. 1,024,526; Apr. 30; Sp. p. 5981; Gaz. vol. 177; p. 1064.
Schweikert, William, Brooklyn, N. Y. Building structure. No. 1,014,416; Jan. 9; Sp. p. 2949; Gaz. vol. 174; p. 489.

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Schweinebraten, Louis G., assignor of one-third to T. C. Lancaster, Birmingham, and one-third to J. D. Pearce, Jefferson county, Ala. Portable crank-pin turner. No. 1,024,367; Apr. 23; Sp. p. 5554; Gaz. vol. 177; p. 974.
Schweinert, Maximilian C., West Hoboken, N. J., and H. P. Kraft, New York, N. Y. Locking-cap for tire-valves and the like. No. 1,027,508; May 28; Sp. p. 5315; Gaz. vol. 178; p. 931.
Schweinert, Maximilian C., West Hoboken, N. J., and H. P. Kraft, New York, N. Y. Valve. No. 1,045,330; Nov. 26; Gaz. vol. 184; p. 884.
Schweinert, Maximilian C., West Hoboken, N. J., and H. P. Kraft, New York, N. Y. Socket member for water-bags. No. 1,046,501; Dec. 10; Gaz. vol. 185; p. 284.
Schweinfurter Präcisions-Kugel-Lager-Werke Fichtel & Sachs. (See Winkler, Franz, assignor.)
Schweinfurth, Fred. (See Maley and Schweinfurth.)
Schweiter, Jean, Horgen, near Zürich, Switzerland. Cross-winding machine. No. 1,022,004; Apr. 2; Sp. p. 546; Gaz. vol. 177; p. 85.
Schweitzer, Alexander, and F. Hauff, Stuttgart, Germany. Manufacturing nitrogen compounds. No. 1,037,061; Aug. 27; Gaz. vol. 181; p. 1004.
Schweitzer, Edmund O. (See Conrad and Schweitzer.)
Schweitzer, Edmund O., Chicago, Ill. System of operation for synchronizing recorders. No. 1,030,925; July 2; Gaz. vol. 180; p. 25.
Schweitzer, Edmund O., Chicago, Ill. Potential indicating and measuring device. No. 1,043,150; Nov. 5; Gaz. vol. 184; p. 36.
Schweitzer, Edmund O., and A. Herz, Chicago, Ill. Fuse device. No. 1,033,123; July 23; Gaz. vol. 180; p. 903.
Schweitzer, Heinrich, New York, N. Y. Swage-machine. No. 1,019,994; Mar. 12; Sp. p. 2107; Gaz. vol. 176; p. 363.
Schweitzer, Heinrich, New York, N. Y. Hinge-articulator. No. 1,027,443; May 28; Sp. p. 5192; Gaz. vol. 178; p. 910.
Schweitzer, Heinrich, New York, N. Y. Gas-blowpipe. No. 1,046,112; Dec. 3; Gaz. vol. 185; p. 108.
Schweitzer, Heinrich, New York, N. Y. Pressure-tool for dental castings. No. 1,046,113; Dec. 3; Gaz. vol. 185; p. 108.
Schweitzer, Heinrich, New York, N. Y. Preparation of molds for dental castings. No. 1,046,114; Dec. 3; Gaz. vol. 185; p. 109.
Schweitzer, Hugo, Elberfeld, and A. Zart, Vohwinkel, near Elberfeld, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Azo dye. No. 1,024,031; Apr. 23; Sp. p. 4844; Gaz. vol. 177; p. 859.
Schweitzer, Hugo, and A. Zart, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Polyazo dyes. No. 1,038,209; Sept. 10; Gaz. vol. 182; p. 377.
Schweitzer, Hugo, and A. Zart, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Azo dyes. No. 1,038,210; Sept. 10; Gaz. vol. 182; p. 378.
Schweizer, Adolf, assignor to The Hill Pump Valve Co., Chicago, Ill. Valve. No. 1,045,619; Nov. 26; Gaz. vol. 184; p. 988.
Schwenkler, *née* Deege, Auguste, Berlin, Germany. Breast-supporter. No. 1,019,537; Mar. 5; Sp. p. 1211; Gaz. vol. 176; p. 179.
Schwenn, Ludwig J. C., New York, N. Y. Plate. No. 1,022,882; Apr. 9; Sp. p. 2404; Gaz. vol. 177; p. 411.
Schwenzow, Paul, Unkel-on-the-Rhine, Germany. Stamping-machine. No. 1,030,132; June 18; Sp. p. 4477; Gaz. vol. 179; p. 774.
Schweppe, William, Pittsburgh, Pa. Trolley. No. 1,024,368; Apr. 23; Sp. p. 5555; Gaz. vol. 177; p. 974.
Schwerin, Botho, Frankfort-on-the-Main, Germany. Manufacturing porous bodies. No. 1,027,004; May 21; Sp. p. 4241; Gaz. vol. 178; p. 723.
Schwerin, Botho, Frankfort-on-the-Main, Germany. Separating substances in suspension by washing. No. 1,029,579; June 11; Sp. p. 3264; Gaz. vol. 179; p. 547.
Schwerin, Oswald, Chicago, Ill. Scaffold. No. 1,038,211; Sept. 10; Gaz. vol. 182; p. 378.
Schwertner, Joseph, New York, N. Y., assignor to Heerwagen Company. Automatic playing apparatus. No. 1,034,520; Aug. 6; Gaz. vol. 181; p. 40.
Schwertner, Joseph, New York, N. Y., assignor to Heerwagen Company. Automatic playing instrument. No. 1,041,179; Oct. 15; Gaz. vol. 183; p. 575.
Schwertner, Joseph, New York, assignor of one-third to J. Aspinwall, Newburgh, N. Y., and one-third to L. F. A. H. Heerwagen, Hasbrouck Heights, N. J. Pneumatic apparatus. (Reissue.) No. 13,384; Mar. 12; Sp. p. 2928; Gaz. vol. 176; p. 496.
Schwickart, Philip, New York, N. Y. Building light and ventilator. No. 1,037,668; Sept. 3; Gaz. vol. 182; p. 166.
Schwickert, Charles F. (See Watson, Samuel S., assignor.)
Schwieder, William, Granite City, Ill., assignor to Commonwealth Steel Company, St. Louis, Mo. Electric controller. No. 1,027,072; May 21; Sp. p. 4419; Gaz. vol. 178; p. 747.
Schwieger, Adolf, Hanover, Germany. Cigar-case. No. 1,021,849; Apr. 2; Sp. p. 209; Gaz. vol. 177; p. 35.
Schwieger, Adolf, Hanover, Germany. Combined cigar-cutter and fastener for cigar-receptacles. No. 1,025,484; May 7; Sp. p. 840; Gaz. vol. 178; p. 131.
Schwieger, Adolf, and B. Doctor, Hanover, Germany. Cigar-cutter. No. 1,025,542; May 7; Sp. p. 982; Gaz. vol. 178; p. 152.
Schwimmer, Oscar, Los Angeles, Cal. Eyeglass attachment. No. 1,030,545; June 25; Sp. p. 5464; Gaz. vol. 179; p. 960.
Schwing, Edward K., Middletown, Ohio. Rat-trap. No. 1,030,750; June 25; Sp. p. 6071; Gaz. vol. 179; p. 1034.
Schwuchow, Edward G., and G. F. Johnston, Chicago, Ill. Etching plates by electricity. No. 1,047,995; Dec. 24; Gaz. vol. 185; p. 861.
Sciamengo, Carlo, Turin, Italy. Method of and device for cutting out contour-bands used in coloring kinematograph films. No. 1,022,270; Apr. 2; Sp. p. 1087; Gaz. vol. 177; p. 174.
Sciamengo, Carlo, Turin, Italy. Cutting out contour-bands used in coloring kinematograph-films. No. 1,036,730; Aug. 27; Gaz. vol. 181; p. 893.
Scioneaux, Wilson, Lagan, La. Pruning-knife. No. 1,038,448; Sept. 10; Gaz. vol. 182; p. 463.
Sclater, William, Westmount, Quebec, assignor of one-half to A. W. Stevenson, Montreal, Canada. Smoke-jack for engine-houses. No. 1,026,931; May 21; Sp. p. 4062; Gaz. vol. 178; p. 696.
Scofield, William B. (See Waite, Edwin E., assignor.)
Scoggins, Jesse C., Wichita, Kans. Vehicle pole or shaft. No. 1,030,248; June 18; Sp. p. 4733; Gaz. vol. 179; p. 815.
Scoop Folding Box Company. (See Smith, Abraham L., assignor.)
Scorce, M. E., *et al.* (See Perry, Alfred H., assignor.)
Score, Erik J. (See Friske and Score.)
Scott, Albert L. (See Roppeneker and Scott.)
Scott, Alexander, Philadelphia, Pa. Sketch-tablet holder. No. 1,016,041; Jan. 30; Sp. p. 6482; Gaz. vol. 174; p. 1126.
Scott, Alfred A., Bradford, England. Grinding and like machine. No. 1,026,610; May 14; Sp. p. 3323; Gaz. vol. 178; p. 549.
Scott, Allen E., San Francisco, Cal. Syringe. No. 1,023,042; Apr. 9; Sp. p. 2738; Gaz. vol. 177; p. 468.
Scott, Allen T., South Bellingham, Wash. Concrete railway-tie. No. 1,038,212; Sept. 10; Gaz. vol. 182; p. 379.
Scott, Alonzo B., Fairmont, W. Va. Card-case attachment for pencils. No. 1,049,275; Dec. 31; Gaz. vol. 185; p. 1337
Scott, Archibald D., Jersey City, N. J., assignor to Varley Duplex Magnet Company. Winding-machine. No. 1,047,844; Dec. 17; Gaz. vol. 185; p. 784.
Scott, Arthur P., Brackenridge, Pa. Producing practically pure iron. No. 1,017,473; Feb. 13; Sp. p. 2757; Gaz. vol. 175; p. 464.
Scott, Barton W., San Jose, Cal. Propeller. No. 1,024,032; Apr. 23; Sp. p. 4845; Gaz. vol. 177; p. 859.
Scott, Bertram N., Detroit, Mich. Proof-press. No. 1,032,510; July 16; Gaz. vol. 180; p. 657.
Scott, Burton W., assignor, by mesne assignments, to Detroit Typomarker Company, Detroit, Mich. Stapling mechanism for pin-ticketing machines. No. 1,019,924; Mar. 12; Sp. p. 1967; Gaz. vol. 176; p. 341.
Scott, Burton W., assignor to Detroit Typomarker Company, Detroit, Mich. Automatic pin-ticketing machine. No. 1,023,883; Apr. 23; Sp. p. 4510; Gaz. vol. 177; p. 808.
Scott, Charles A., administrator. (See Scott, James W. and C. A.)
Scott, Charles D., Topeka, Kans., assignor to P. E. Ginn, Winchester, Mass. Settling-machine. No. 1,047,455; Dec. 17; Gaz. vol. 185; p. 645.
Scott, Charles F., Pittsburgh, Pa., assignor to Westinghouse Lamp Company. Mounting tungsten filaments. No. 1,013,227; Jan. 2; Sp. p. 304; Gaz. vol. 174; p. 48.
Scott, Charles H., New York, N. Y. Combined bustle and hip-form. No. 1,036,731; Aug. 27; Gaz. vol. 181; p. 893.
Scott, Charles H., Minneapolis, Minn. Scouring-machine. No. 1,044,924; Nov. 19; Gaz. vol. 184; p. 716.
Scott, Clarence, assignor to J. H. and E. F. Lawrence, Sterling, Ill. Door or gate hook. No. 1,036,013; Aug. 20; Gaz. vol. 181; p. 611.
Scott, Clarence N., Houston, Tex., assignor to International Steam Pump Company. Flap-valve. No. 1,022,157; Apr. 2; Sp. p. 860; Gaz. vol. 177; p. 136.
Scott, David J., *et al.*, executors. (See Scott, Walter.)
Scott, David J., *et al.*, executors. (See Weseman, Alonzo W., assignor.)
Scott Drill Company. (See Scott, Lewis L., assignor.)
Scott, Edmund W., Simpsonville, Md. Wire-stretcher. No. 1,016,785; Feb. 6; Sp. p. 1235; Gaz. vol. 175; p. 190.
Scott, Edward D. (See Scott, George E. and E. D.)
Scott, Edwin, Newberry, Ind. Acetylene-gas generator. No. 1,029,722; June 18; Sp. p. 3600; Gaz. vol. 179; p. 635.
Scott, Frederick C., assignor to F. W. Trounce, Vancouver, British Columbia, Canada. Brush-cutting knife. No. 1,018,784; Feb. 27; Sp. p. 5679; Gaz. vol. 175; p. 982.

Alphabetical list of patentees—Continued.

Scott, George E., Chicago, Ill. Drier. No. 1,039,449; Sept. 24; Gaz. vol. 182; p. 857.
Scott, George E. and E. D., assignors to Timewell Sack Filling & Sewing Machine Company, Chicago, Ill. Filled-sack-sewing machine. No. 1,018,133; Feb. 20; Sp. p. 4229; Gaz. vol. 175; p. 727.
Scott, George E. and E. D., assignors, by mesne assignments, to Timewell Sack Filling and Sewing Machine Company, Chicago, Ill. Filled-sack-sewing machine. No. 1,026,833; May 21; Sp. p. 3829; Gaz. vol. 178; p. 662.
Scott, George W., assignor to The Star Storm Front Company, Troy, Ohio. Side curtain for automobiles. No. 1,047,310; Dec. 17; Gaz. vol. 185; p. 597.
Scott, Harry T., Los Angeles, Cal. Phonograph-reproducer. No. 1,040,032; Oct. 1; Gaz. vol. 183; p. 121.
Scott, Harry T., Los Angeles, Cal. Phonograph-mandrel. No. 1,040,033; Oct. 1; Gaz. vol. 183; p. 121.
Scott, Harry T., and L. J. Patterson, Los Angeles, Cal.; said Patterson assignor to said Scott. Automatic phonograph. No. 1,040,029; Oct. 1; Gaz. vol. 183; p. 119.
Scott, Harry T., and L. J. Patterson, Los Angeles, Cal.; said Patterson assignor to said Scott. Reproducer for phonographs. No. 1,040,030; Oct. 1; Gaz. vol. 183; p. 119.
Scott, Harry T., and L. J. Patterson, Los Angeles, Cal.; said Patterson assignor to said Scott. Automatic phonograph. No. 1,040,031; Oct. 1; Gaz. vol. 183; p. 120.
Scott, Harry T., and L. J. Patterson, Los Angeles, Cal.; said Patterson assignor to said Scott. Automatic phonograph. No. 1,040,034; Oct. 1; Gaz. vol. 183; p. 121.
Scott, Henry E., Goldsboro, N. C. Scythe. No. 1,030,794; June 25; Sp. p. 6213; Gaz. vol. 179; p. 1050.
Scott, Ira, Fort Collins, Colo. Swimming apparatus. No. 1,031,877; July 9; Gaz. vol. 180; p. 401.
Scott, Ira J. (See Marshall, Walker E., assignor.)
Scott, Isabella, *et al.*, executors. (See Scott, Walter.)
Scott, Isabella, *et al.*, executors. (See Weseman, Alonzo W., assignor.)
Scott, James, Pittsburgh, Pa. Blast-furnace construction. No. 1,036,350; Aug. 20; Gaz. vol. 181; p. 732.
Scott, James E. (See Brown and Scott.)
Scott, James E., Brunswick, Me. Loom-harness. No. 1,047,311; Dec. 17; Gaz. vol. 185; p. 597.
Scott, James G., Morgantown, Ind. Amalgamator. No. 1,018,448; Feb. 27; Sp. p. 4902; Gaz. vol. 175; p. 867.
Scott, James H., San Diego, Cal. Sterilizing apparatus. No. 1,019,538; Mar. 5; Sp. p. 1212; Gaz. vol. 176; p. 180.
Scott, James W., deceased, (C. A. Scott, administrator,) and C. A. Scott, Kokomo, Ind. Apparatus for fumigating. No. 1,021,270; Mar. 26; Sp. p. 4814; Gaz. vol. 176; p. 878.
Scott, John R., Oakland, Cal. Detachable handle for hand-baggage. No. 1,035,483; Aug. 13; Gaz. vol. 181; p. 397.
Scott, John W. (See McSorley, William J., assignor.)
Scott, Joseph J., assignor of one-half to F. Green, Clintonville, Pa. Wall-packer for wells. No. 1,034,737; Aug. 6; Gaz. vol. 181; p. 112.
Scott, Lewis L., Joplin, assignor to Scott Drill Company, St. Louis, Mo. Internal-combustion percussive machine. No. 1,049,276; Dec. 31; Gaz. vol. 185; p. 1337.
Scott, Oscar F., Gainesville, Tex. Stalk-chopper. No. 1,039,327; Sept. 24; Gaz. vol. 182; p. 815.
Scott Paper Company. (See Whittier, John W., assignor.)
Scott, Ray P. (See La Mountain, George C., assignor.)
Scott, Ray W., New York, N. Y., assignor to New York Attachable Player Action Co. Piano-player attachment. No. 1,018,084; Feb. 20; Sp. p. 4121; Gaz. vol. 175; p. 710.
Scott, Ray W., New York, N. Y., assignor to New York Attachable Player Action Co. Foot-power mechanism. No. 1,031,591; July 2; Gaz. vol. 180; p. 257.
Scott, Robert, London, England. Apparatus particularly suitable for treating oil-seed and the like. No. 1,040,782; Oct. 8; Gaz. vol. 183; p. 408.
Scott, Robert F., and A. M. Harrington, assignors to Edwin Harrington, Son & Co., Inc., Philadelphia, Pa. Track-suspender. No. 1,018,931; Feb. 27; Sp. p. 5977; Gaz. vol. 175; p. 1030.
Scott, Robert J., *et al.* (See Rice, Thomas G., assignor.)
Scott, Robert W., Leeds Point, assignor to Scott & Williams, Incorporated, Camden, N. J. Knitted fabric and hosiery made therefrom. No. 1,018,134; Feb. 20; Sp. p. 4233; Gaz. vol. 175; p. 727.
Scott, Robert W., Leeds Point, assignor, by mesne assignments, to Scott & Williams, Incorporated, Camden, N. J. Knitting-machine. No. 1,034,521; Aug. 6; Gaz. vol. 181; p. 41.
Scott, Robert W., Leeds Point, assignor to Scott & Williams, Incorporated, Camden, N. J. Knitted fabric. No. 1,035,751; Aug. 13; Gaz. vol. 181; p. 486.
Scott, Robert W., Leeds Point, assignor to Scott & Williams, Incorporated, Camden, N. J. Needle for knitting-machines. No. 1,035,752; Aug. 13; Gaz. vol. 181; p. 486.
Scott, Robert W., Leeds Point, assignor to Scott & Williams, Incorporated, Camden, N. J. Hosiery. No. 1,037,669; Sept. 3; Gaz. vol. 182; p. 166.
Scott, Robert W., Leeds Point, assignor to Scott & Williams, Incorporated, Camden, N. J. Latch-needle for knitting-machines. No. 1,039,450; Sept. 24; Gaz. vol. 182; p. 857.
Scott, Robert W., Leeds Point, assignor to Scott & Williams, Incorporated, Camden, N. J. Welted knitted web and making same. No. 1,045,620; Nov. 26; Gaz. vol. 184; p. 989.
Scott, Robert W., Leeds Point, assignor to Scott & Williams, Incorporated, Camden, N. J. Selvaged knitted web and making same. No. 1,045,621; Nov. 26; Gaz. vol. 184; p. 989.
Scott, Robert W., Leeds Point, assignor to Scott & Williams, Incorporated, Camden, N. J. Circular-knitting machine. No. 1,047,712; Dec. 17; Gaz. vol. 185; p. 738.
Scott, Robert W., Boston, Mass., assignor to Scott & Williams, Incorporated, Camden, N. J. Shaped seamless hosiery and knitting same. No. 1,042,152; Oct. 22; Gaz. vol. 183; p. 938.
Scott, Semple S., Chicago, Ill. Resilient tire. No. 1,017,814; Feb. 20; Sp. p. 3496; Gaz. vol. 175; p. 615.
Scott, Thomas L., and A. Liska, Johnstown, Pa. Collapsible dinner-pail. No. 1,033,831; July 30; Gaz. vol. 180; p. 1165.
Scott, Walker A., Evansville, Ind. Floor-dressing tool. No. 1,016,446; Feb. 6; Sp. p. 480; Gaz. vol. 175; p. 73.
Scott, Walker A., Evansville, Ind. Rug-stiffener. No. 1,030,685; June 25; Sp. p. 5915; Gaz. vol. 179; p. 1011.
Scott, Walter, Larue, Tex. Rail-joint-supporting device. No. 1,027,284; May 21; Sp. p. 4862; Gaz. vol. 178; p. 818.
Scott, Walter, deceased, Plainfield, N. J.; I. and D. J. Scott, executors. Printing-machine. No. 1,021,897; Apr. 2; Sp. p. 310; Gaz. vol. 177; p. 51.
Scott, Walter, deceased, Plainfield, N. J.; I. and D. J. Scott, executors. Multirevolution printing-machine. No. 1,022,604; Apr. 9; Sp. p. 1797; Gaz. vol. 177; p. 315.
Scott, Walter, deceased, Plainfield, N. J.; I. and D. J. Scott, executors. Printing-machine. No. 1,025,076; Apr. 30; Sp. p. 7138; Gaz. vol. 177; p. 1253.
Scott, Walter, deceased, Plainfield, N. J.; I. and D. J. Scott, executors. Delivery mechanism. No. 1,027,283; May 21; Sp. p. 4858; Gaz. vol. 178; p. 818.
Scott, Walter, deceased, Plainfield, N. J.; I. and D. J. Scott, executors. Multicouple multirevolution printing-machine. No. 1,040,783; Oct. 8; Gaz. vol. 183; p. 409.
Scott, William, Lititz, Pa., assignor to Oneida Community, Limited, Oneida, N. Y. Animal-trap. No. 1,029,087; June 11; Sp. p. 2219; Gaz. vol. 179; p. 379.
Scott, William A., Tacoma, Wash. Means for attaching binding-posts to dry batteries. No. 1,021,340; Mar. 26; Sp. p. 4954; Gaz. vol. 176; p. 904.
Scott, William A., Tacoma, assignor to New Era Manufacturing Company, Seattle, Wash. Means for attaching binding-posts to dry batteries. No. 1,035,247; Aug. 13; Gaz. vol. 181; p. 313.
Scott, William A., Ocala, assignor of one-half to D. D. Silva, Cape San Blass, Fla. Oven for cooking-stoves and furnaces. No. 1,043,632; Nov. 5; Gaz. vol. 184; p. 208.
Scott, William A., assignor to American Turbine Company, Inc., Seattle, Wash. Turbine-engine. No 1,047,898; Dec. 17; Gaz. vol. 185; p. 801.
Scott, William A., Tacoma, and H. P. Grant, assignors to American Turbine Company, Inc., Seattle, Wash. Turbine. No. 1,033,738; July 23; Gaz. vol. 180; p. 1107.
Scott, William F., Toronto, Ontario, Canada. Reinforced concrete. No. 1,021,429; Mar. 26; Sp. p. 5164; Gaz. vol. 176; p. 934.
Scott, William H., Kalamazoo, Mich. Gate-valve. No. 1,037,338; Sept. 3; Gaz. vol. 182; p. 53.
Scott, William M., Philadelphia, Pa. Remote control apparatus. No. 1,022,644; Apr. 9; Sp. p. 1882; Gaz. vol. 177; p. 329.
Scott, William M., Central, S. C. Rail-joint. No. 1,039,597; Sept. 24; Gaz. vol. 182; p. 910.
Scott, William M., Central, S. C. Steel cross-tie. No. 1,039,598; Sept. 24; Gaz. vol. 182; p. 910.
Scott, William M., Philadelphia, Pa., assignor to The Cutter Electrical and Manufacturing Company. Circuit-breaker system. No. 1,031,205; July 2; Gaz. vol. 180; p. 126.
Scott & Williams. (See Costello, Loretto A., assignor.)
Scott & Williams. (See Morley, Joseph D., assignor.)
Scott & Williams. (See Scott, Robert W., assignor.)
Scott & Williams. (See Swinglehurst, Harry, assignor.)
Scott & Williams. (See Williams, Louis N. D., assignor.)
Scotten, William M., Gregg township, Morgan county, Ind. Farm-gate. No. 1,019,726; Mar. 5; Sp. p. 1559; Gaz. vol. 176; p. 242.
Scoulikas, Christos J. (See McDougall, George F. A., assignor.)
Scovel, James D., Detroit, Mich. Flexible shafting. No. 1,030,544; June 25; Sp. p. 5463; Gaz. vol. 179; p. 960.
Scovel, Leonard T., Wolsey, S. D. Draft-equalizer. No. 1,036,351; Aug. 20; Gaz. vol. 181; p. 733.
Scovill Manufacturing Company. (See Goss, John H., assignor.)
Scovill Manufacturing Company. (See Perrine, George H., assignor.)

Alphabetical list of patentees—Continued.

Scovill Manufacturing Company. (See Reutter, Frederick, assignor.)
Scovill Manufacturing Company. (See Robinson, Patrick H., assignor.)
Scovill Manufacturing Company. (See Simons, Ernest D., assignor.)
Scovill Manufacturing Company. (See Warner, Frank E., assignor.)
Scoville, Eugene M., Waipahu, Hawaii. Metallic packing for pumps. No. 1,024,425; Apr. 23; Sp. p. 5703; Gaz. vol. 177; p. 993.
Scow, George C., *et al.* (See Scow, Louis E., assignor.)
Scow, Louis E., assignor of one-fourth to G. C. Scow, one-fourth to T. A. Montgomery, and one-fourth to T. E. Montgomery, Portage la Prairie, Manitoba, Canada. Soil-tilling machine. No. 1,023,043; Apr. 9; Sp. p. 2739; Gaz. vol. 177; p. 468.
Scowden, Edward W., Jamestown, N. Y. Inflatable life-saving equipment of soldiers. No. 1,028,141; June 4; Sp. p. 134; Gaz. vol. 179; p. 20.
Scranton Button Company, The. (See Sylvester, Philip L., assignor.)
Scranton, Harold L. (See Morgan, Thomas C., assignor.)
Scranton, Robert A., assignor to H. Tyree, New York, N. Y. Combined sewing-machine cabinet and desk. No. 1,047,996; Dec. 24; Gaz. vol. 185; p. 861.
Scribner, Charles E., Jericho, Vt., assignor to Western Electric Company, Chicago, Ill. Party-line selective signaling system. No. 1,023,482; Apr. 16; Sp. p. 3681; Gaz. vol. 177; p. 652.
Scribner, Charles E. T., assignor to The James Hunter Machine Company, North Adams, Mass. Machine for making bats. No. 1,020,372; Mar. 12; Sp. p. 2876; Gaz. vol. 176; p. 487.
Scribner, Leon A., Newport, N. H. Coupling. No. 1,045,199; Nov. 26; Gaz. vol. 184; p. 839.
Scriggins, Frank W. (See Blackey, John A., assignor.)
Scrimshaw, George J. (See Fulton, Scrimshaw, and Snyder.)
Scrimshaw, Walter J., Chicago, Ill. Trolley catcher and replacer. No. 1,042,153; Oct. 22; Gaz. vol. 183; p. 938.
Scroggin, Carter R. (See Dunkel, Wilber R., assignor.)
Scroggin, John H., Starkville, Miss. Insect-trap. No. 1,036,153; Aug. 20; Gaz. vol. 181; p. 663.
Scroggins, Allen C. (See Dalzell and Scroggins.)
Scroggs, Joseph W. (See French, McKelvy, and Scroggs.)
Scrote, Edward L., *et al.* (See Cole, Milton E., assignor.)
Scudder, John L., South Omaha, Nebr. Signal device for cars. No. 1,041,890; Oct. 22; Gaz. vol. 183; p. 853.
Scudder, Mary L. E., Wayne township, Marion county, Ind. Corset. No. 1,018,135; Feb. 20; Sp. p. 4236; Gaz. vol. 175; p. 728.
Scullin-Gallagher Iron and Steel Company. (See Doerr, Harry E., assignor.)
Scully, Walter P., Chicago, Ill. Bowling-ball. No. 1,021,490; Mar. 26; Sp. p. 5302; Gaz. vol. 176; p. 955.
Scurfield, George G., Carlisle, England. Filter for oil, grease, and other substances. No. 1,039,451; Sept. 24; Gaz. vol. 182; p. 857.
Scutt, Leonard B., *et al.* (See Estes, Charles E., assignor.)
Sea, Frederic W., Chicago, Ill. Combined blank book and file. No. 1,043,365; Nov. 5; Gaz. vol. 184; p. 115.
Seaberg, Frederick, assignor, by mesne assignments, to National Dump Car Company, Chicago, Ill. Ore-car. No. 1,035,389; Aug. 13; Gaz. vol. 181; p. 365.
Seaberg, Frederick, assignor to National Dump Car Company, Chicago, Ill. Door-operating mechanism for railway-cars. No. 1,044,265; Nov. 12; Gaz. vol. 184; p. 457.
Seabolt, Frank J., *et al.* (See Rupley, George H., assignor.)
Seaborne, Allever B., Hammersmith, London, England. Means for cleaning kinematograph and like films. No. 1,022,510; Apr. 9; Sp. p. 1592; Gaz. vol. 177; p. 285.
Seaboyer, George E., Wooster, Ohio. Calcimine-brush. No. 1,020,373; Mar. 12; Sp. p. 2880; Gaz. vol. 176; p. 488.
Seabury & Johnson. (See Lovis, Henry C., assignor.)
Seafield, William. (See Kleffman, Ray C., assignor.)
Seago, Albert. (See Seago, Louise and A.)
Seago, Louise and A., New York, N. Y. Hair-dye. No. 1,017,269; Feb. 13; Sp. p. 2311; Gaz. vol. 175; p. 393.
Seagrave, Frederic S., Detroit, Mich. Water-tower. No. 1,013,323; Jan. 2; Sp. p. 523; Gaz. vol. 174; p. 83.
Seagren, Charles, Holdrege, Nebr. Grain-separator. No. 1,044,086; Nov. 12; Gaz. vol. 184; p. 396.
Seale, Jefferson W., Mineral Wells, Tex. Oven. No. 1,040,784; Oct. 8; Gaz. vol. 183; p. 409.
Seaman, Alonzo D., Milwaukee, Wis. Sanitary drinking device. No. 1,028,142; June 4; Sp. p. 137; Gaz. vol. 179; p. 21.
Seaman, Arthur G. (See Gattie and Seaman.)
Seaman, Frank C., Oneonta, N. Y. Railway-tie and rail-fastener. No. 1,044,925; Nov. 19; Gaz. vol. 184; p. 716.
Seaman, George W., assignor to The Aultman & Taylor Machinery Company, Mansfield, Ohio. Combined means of operating the throttle-valve and governing the speed of an engine. No. 1,032,434; July 16; Gaz. vol. 180; p. 632.
Seaman, George W., assignor to The Aultman & Taylor Machinery Company, Mansfield, Ohio. Lever-operating mechanism. No. 1,036,916; Aug. 27; Gaz. vol. 181; p. 954.
Seaman, George W., assignor to The Aultman & Taylor Machinery Company, Mansfield, Ohio. Steering-gear. No. 1,048,748; Dec. 31; Gaz. vol. 185; p. 1156.
Seaman, James and W. S., Baker, Mont. Water-elevator. No. 1,035,055; Aug. 6; Gaz. vol. 181; p. 217.
Seaman, John T., Seattle, Wash. Rotary pump. No. 1,019,995; Mar. 12; Sp. p. 2108; Gaz. vol. 176; p. 363.
Seaman, Walter S. (See Seaman, James and W. S.)
Seamans, Edward W., Grand Rapids, Mich. Concrete-mixer. No. 1,043,151; Nov. 5; Gaz. vol. 184; p. 37.
Seames, Louis F., Buffalo, N. Y. Bottle-stopper. No. 1,041,180; Oct. 15; Gaz. vol. 183; p. 576.
Searby, William. (See Hall and Searby.)
Searchlight Gas Company, The. (See Hawkins, Alda F., assignor.)
Searight, John W. (See Allen, Friend A., assignor.)
Searle, Frank C., Wilmington, Del. Burial-vault. No. 1,024,527; Apr. 30; Sp. p. 5984; Gaz. vol. 177; p. 1065.
Searle, Orville E. (See Lloyd, Cecil E., assignor.)
Searles, Orren I., Joplin, Mo. Music-leaf turner. No. 1,036,917; Aug. 27; Gaz. vol. 181; p. 954.
Searles, Wayne S., Providence, R. I. Eyeglass-temple attachment. No. 1,034,651; Aug. 6; Gaz. vol. 181; p. 82.
Sears, Frank I., Oakland, Cal. Elastic vehicle-wheel. No. 1,025,209; May 7; Sp. p. 220; Gaz. vol. 178; p. 37.
Sears, James A. W., assignor of one-half to W. F. and M. A. Stephens, Chattanooga, Tenn. Chair. No. 1,026,706; May 21; Sp. p. 3549; Gaz. vol. 178; p. 619.
Sears, Leonard C. (See Hartwell and Sears.)
Sears, Roebuck and Co. (See Churgay, Louis A., assignor.)
Sears, Roebuck and Co. (See Richards, Ernst R., assignor.)
Sears, Roebuck & Co. (See Savage, Arthur J., assignor.)
Sears, Roebuck & Co. (See Savage, Basil H., assignor.)
Sears, Roebuck & Company. (See Christensen, Carl, assignor.)
Sears, Roebuck & Company. (See Christensen and Noonen, assignors.)
Sears, Roebuck & Company. (See Kissel, William L., assignor.)
Sears, Roebuck & Company. (See Krotz, Alvaro S., assignor.)
Sears, Roebuck & Company. (See Olsen, John, assignor.)
Seashole, Guy W., assignor of one-half to J. G. Fry, Clifton Forge, Va. Body lifter and conveyer. No. 1,033,277; July 23; Gaz. vol. 180; p. 957.
Seat, Woodford O., assignor of one-half to R. H. Waller, Nashville, Tenn. Concrete wall construction. No. 1,046,029; Dec. 3; Gaz. vol. 185; p. 78.
Seaton, Jeannette N., administratrix. (See Seaton, William, Jr.)
Seaton, William, Jr., deceased, New York, N. Y.; J. N. Seaton, administratrix. Mechanical stoker. No. 1,048,356; Dec. 24; Gaz. vol. 185; p. 982.
Seaton, William R., Pinson, Tenn. Saw-clamp. No. 1,048,898; Dec. 31; Gaz. vol. 185; p. 1208.
Seaver, August, Montague, Mich. Aeroplane. No. 1,040,785; Oct. 8; Gaz. vol. 183; p. 410.
Seaver, Edward Jr., Pittsburgh, Pa. Transmission mechanism. No. 1,029,641; June 18; Sp. p. 3399; Gaz. vol. 179; p. 605.
Seaver, Edward, Jr., assignor, by mesne assignments, to The Colonial Trust Company, trustee, Pittsburgh, Pa. Valve. No. 1,022,758; Apr. 9; Sp. p. 2169; Gaz. vol. 177; p. 372.
Seaver, John W., deceased, (M. T. P. Seaver, executrix,) Cleveland Heights, and J. E. A. Moore, East Cleveland, Ohio; said Moore assignor to said Seaver. Apparatus to be used in constructing concrete walls, piers, &c. No. 1,018,634; Feb. 27; Sp. p. 5358; Gaz. vol. 175; p. 930.
Seaver, Mary T. P., executrix. (See Seaver and Moore.)
Seavey, Eugene, New York, N. Y. Filter. No. 1,035,248; Aug. 13; Gaz. vol. 181; p. 314.
Seay, Albert H., Miami, Okla. Egg tester and enumerator. No. 1,046,339; Dec. 3; Gaz. vol. 185; p. 188.
Seay, William W., Cincinnati, Ohio. Refrigeration. No. 1,042,041; Oct. 22; Gaz. vol. 183; p. 902.
Sebald, Joseph H., Arlington, N. J., assignor to Henry R. Worthington, New York, N. Y. Pump. No. 1,036,918; Aug. 27; Gaz. vol. 181; p. 955.
Sebald, Joseph H., Newark, N. J., assignor to A. S. Cameron Steam Pump Works, New York, N. Y. Centrifugal pump. No. 1,046,115; Dec. 3; Gaz. vol. 185; p. 109.
Seberg, Aaron G., Racine, Wis. Rock and boulder planer. No. 1,044,926; Nov. 19; Gaz. vol. 184; p. 716.
Sebree Mail Exchanging Device Co. (See Coyne and Eskholme, assignors.)
Sebree Mail Exchanging Device Co. (See Coyne, Taylor, and Eskholme, assignors.)
Seburn, Harvey T., assignor, by mesne assignments, to The Indiana Manufacturing Company, Indianapolis, Ind. Threshing-machine. No. 1,019,194; Mar. 5; Sp. p. 416; Gaz. vol. 176; p. 66.

Alphabetical list of patentees—Continued.

Sechrist, Albert, Denver, Colo. Chandelier. No. 1,017,694; Feb. 20; Sp. p. 3183; Gaz. vol. 175; p. 573.
Sechrist, Albert, assignor to The Albert Sechrist Manufacturing Company, Denver, Colo. Chandelier. No. 1,024,369; Apr. 23; Sp. p. 5556; Gaz. vol. 177; p. 974.
Sechrist, Albert, assignor to The Albert Sechrist Manufacturing Company, Denver, Colo. Chandelier. No. 1,024,809; Apr. 30; Sp. p. 6614; Gaz. vol. 177; p. 1163
Sechrist, Albert, assignor to The Albert Sechrist Manufacturing Company, Denver, Colo. Chandelier. No. 1,045,084; Nov. 19; Gaz. vol. 184; p. 771.
Seck, Heinrich, Dresden, Germany. Apparatus for sorting and cleaning grain. No. 1,036,014; Aug. 20; Gaz. vol. 181; p. 612.
Secor, Edward M., New York, N. Y. Mechanical toy. No. 1,033,479; July 23; Gaz. vol. 180; p. 1023.
Secor, Jerome B., Derby, Conn. Variable-line-space mechanism for type-writers. No. 1,033,125; July 23; Gaz. vol. 180; p. 904.
Secor, Jerome B., Derby, Conn. Type-bar key-action. No. 1,037,339; Sept. 3; Gaz. vol. 182; p. 53.
Secor, Jerome B., assignor, by mesne assignments, to Secor Typewriter Company, Derby, Conn. Ribbon feed and movement mechanism. No. 1,033,124; July 23; Gaz. vol. 180; p. 904.
Secor Typewriter Company. (See Bridgwater, Herbert E., assignor.)
Secor Typewriter Company. (See Secor, Jerome B., assignor.)
Sectional Threshing Cylinder Co. (See Shaw, Orpheus C., assignor.) (Reissue.)
Security Savings and Trust Co., trustee. (See Peplinski, Julius W., assignor.)
Security Sealing & Stamping Machine Company. (See Lederman, John E., assignor.)
Sedaj, John, Kenosha, Wis. Extensible table. No. 1,048,596; Dec. 31; Gaz. vol. 185; p. 1102.
Sedberry, James B., Thompsons Station, Tenn. Dental swage. No. 1,016,786; Feb. 6; Sp. p. 1237; Gaz. vol. 175; p. 190.
Seddens, Charles, Eastwood, Ohio. Railway-tie. No. 1,014,526; Jan. 9; Sp. p. 3149; Gaz. vol. 174; p. 524.
Seddon, Charles W., Proctor, Minn. Boiler. No. 1,038,004; Sept. 10; Gaz. vol. 182; p. 311.
Seddon, Frederick E., Hoboken, N. J., assignor to Garvin Machine Company. Universal angle-plate. No. 1,026,932; May 21; Sp. p. 4063; Gaz. vol. 178; p. 697.
Sedgwick, Richard, Richmond, Ind. Traction-wheel. No. 1,039,200; Sept. 24; Gaz. vol. 182; p. 769.
Sedivyg, Andy, Indiana Harbor, Ind. Metallic tie and rail-fastener. No. 1,022,271; Apr. 2; Sp. p. 1088; Gaz. vol. 177; p. 174.
See, William T., Meadville, Pa. Train-order-delivering device. No. 1,026,467; May 14; Sp. p. 3041; Gaz. vol. 178; p. 502.
Seeber, George, *et al.* (See Braun, Henry, assignor.)
Seeberger, Charles D., New York, N. Y., assignor to Otis Elevator Company. Conveyer. No. 1,014,100; Jan. 9; Sp. p. 2261; Gaz. vol. 174; p. 377.
Seeberger, Charles D., New York, N. Y., assignor to Otis Elevator Company. Elevator. No. 1,014,856; Jan. 16; Sp. p. 3947; Gaz. vol. 174; p. 668.
Seeberger, Charles D., New York, N. Y., assignor to Otis Elevator Company. Conveyer. No. 1,015,406; Jan. 23; Sp. p. 5106; Gaz. vol. 174; p. 880.
Seeberger, Charles D., New York, N. Y., assignor to Otis Elevator Company. Conveyer. No. 1,020,060; Mar. 12; Sp. p. 2236; Gaz. vol. 176; p. 386.
Seeberger, Charles D., New York, N. Y., assignor to Otis Elevator Company. Conveyer. No. 1,023,443; Apr. 16; Sp. p. 3601; Gaz. vol. 177; p. 642.
Seeberger, Charles D., New York, N. Y., assignor to Otis Elevator Company. Conveyer. No. 1,025,316; May 7; Sp. p. 462; Gaz. vol. 178; p. 73.
Seeberger, Charles D., Yonkers, N. Y., assignor to Otis Elevator Company. Conveyer. No. 1,034,841; Aug. 6; Gaz. vol. 181; p. 148.
Seeberger, Charles D., Yonkers, N. Y., assignor to Otis Elevator Company. Conveyer. No. 1,043,542; Nov. 5; Gaz. vol. 184; p. 178.
Seede, John A., Schenectady, N. Y., assignor to General Electric Company. Motor-control system. No. 1,027,159; May 21; Sp. p. 4610; Gaz. vol. 178; p. 774.
Seede, John A., Schenectady, N. Y., assignor to General Electric Company. Electric furnace. No. 1,042,613; Oct. 29; Gaz. vol. 183; p. 1125.
Seehafer, Fred, and W. Prahl, Marshfield, Wis. Hay-press. No. 1,040,786; Oct. 8; Gaz. vol. 183; p. 410.
Seel, Francis J. (See Palmer, Herman H., assignor.)
Seelau, Franz, Berlin, Germany. Combined clock and talking-machine. No. 1,030,926; July 2; Gaz. vol. 180; p. 25.
Seelenfreund, Alexander B. (See Glaser, Bernhard, assignor.)
Seeley, Abner M., and N. C. Durand, Newark, assignors, by mesne assignments, to Thomas A. Edison, Incorporated, West Orange, N. J. Carton. No. 1,042,042; Oct. 22; Gaz vol. 183; p. 902.
Seeley, Alfred, and H. Holt, Rochdale, England. Machinery for winding yarns or threads onto bobbins or the like. No. 1,046,226; Dec. 3; Gaz. vol. 185; p. 148.
Seeley, Charles L., La Junta, Colo. Locking device. No. 1,020,930; Mar. 19; Sp. p. 4078; Gaz. vol. 176; p. 712.
Seeley, Charles W., and C. S. Ross, Hollywood, Cal. Wheel. No. 1,042,487; Oct. 29; Gaz. vol. 183; p. 1080.
Seeley, James E., assignor to High Frequency Ignition Coil Company, Los Angeles, Cal. Means for producing high-tension discharges. No. 1,015,088; Jan. 16; Sp. p. 4435; Gaz. vol. 174; p. 746.
Seeley, James E., assignor to High Frequency Ignition Coil Company, Los Angeles, Cal. Ignition system. No. 1,015,089; Jan. 16; Sp. p. 4439; Gaz. vol. 174; p. 747.
Seeley, James E., assignor to High Frequency Ignition Coil Company, Los Angeles, Cal. Magneto. No. 1,017,597; Feb. 13; Sp. p. 2983; Gaz. vol. 175; p. 504.
Seeley, Nathaniel S., Flushing, N. Y. Engine-valve mechanism. No. 1,030,927; July 2; Gaz. vol. 180; p. 26.
Seelig, Arthur, Wilmersdorf, Berlin, Germany. Tire. No. 1,017,598; Feb. 13; Sp. p. 2984; Gaz. vol. 175; p. 504.
Seelig, Augustus R., Plantsville, Conn. Screw-driver. No. 1,014,417; Jan. 9; Sp. p. 2951; Gaz. vol. 174; p. 490.
Seelig, John G., Ripon, Wis. Reversing-gearing. No. 1,047,579; Dec. 17; Gaz. vol. 185; p. 691.
Seelig, William L., St. Louis, Mo. Cash-fare-receipt form. No. 1,014,334; Jan. 9; Sp. p. 2766; Gaz. vol. 174; p. 460.
Seely, Arthur Y. (See Perkins, James F., assignor.)
Seely, Arthur Y., Blaine, Wash. Machine for lacquering cans. No. 1,021,074; Mar. 26; Sp. p. 4386; Gaz. vol. 176; p. 814.
Seely, Charles H., Noroton, Conn. Golf-club. No. 1,026,181; May 14; Sp. p. 2400; Gaz. vol. 178; p. 404.
Seely, George A., assignor, by mesne assignments, of one-half to J. Salsbury, San Francisco, Cal. Night-sight for firearms. No. 1,029,951; June 18; Sp. p. 4110; Gaz. vol. 179; p. 713.
Seely, Harry H. (See Roberts and Seely.)
Seely, Herbert W., Seligman, Ariz. Automobile-jack. No. 1,042,154; Oct. 22; Gaz. vol. 183; p. 939.
Seely, Herman B., Chicago, Ill. Cooker. No. 1,046,870; Dec. 10; Gaz. vol. 185; p. 412.
Seely, John A., New York, N. Y. Cap. No. 1,043,152; Nov. 5; Gaz. vol. 184; p. 37.
Seemann, August J., assignor to Loeffelholz Company, Milwaukee, Wis. Electrical connector. No. 1,046,227; Dec. 3; Gaz. vol. 185; p. 149.
Seereiter, Edward C., Buffalo, N. Y. Toy wagon. No. 1,044,266; Nov. 12; Gaz. vol. 184; p. 457.
Seessle, Gustav A., Wheaton, assignor to Reynolds Electric Flasher Manufacturing Company, Chicago, Ill. Transparent hood for electric lamps. No. 1,042,979; Oct. 29; Gaz. vol. 183; p. 1250.
Seeton, J. H. (See Trousdale, Robert A., assignor.)
Sefton Manufacturing Company, The. (See Fairchild, Walter H., assignor.)
Sefton Manufacturing Company, The. (See Ferres, Jeffrey T., assignor.)
Sefton Manufacturing Company, The. (See Reber, John G., assignor.)
Sefts, William, Tarentum, Pa. Nursing-bottle support. No. 1,034,738; Aug. 6; Gaz. vol. 181; p. 112.
Segal, David, Washington, D. C., assignor of one-half to J. Segal, Long Island City, N. Y. Flying-machine. No. 1,036,732; Aug. 27; Gaz. vol. 181; p. 893.
Segal, Jacob. (See Segal, David, assignor.)
Segel, Bertram F., deceased, Bethlehem, (H. E. G. Segel, South Bethlehem, Pa., administrator,) and O. F. Marsh, Bethlehem, Pa. Tool. No. 1,018,210; Feb. 20; Sp. p. 4389; Gaz. vol. 175; p. 754.
Segel, Herman E. G., administrator. (See Segel and Marsh.)
Segerstrom, Henry N. (See Rindall, Joel, assignor.)
Segman, Alexander, New York, N. Y. Jewelry. No. 1,021,491; Mar. 26; Sp. p. 5304; Gaz. vol. 176; p. 956.
Sego, Charles W., Ira, Iowa. Glass-fastener. No. 1,030,133; June 18; Sp. p. 4480; Gaz. vol. 179; p. 775.
Seguin, Joseph E., Hull, Quebec, Canada. Adjustable form for routing-machines or the like. No. 1,022,883; Apr. 9; Sp. p. 2406; Gaz. vol. 177; p. 411.
Sehl, William, Prescott, Ariz. Feed-bag. No. 1,042,155; Oct. 22; Gaz. vol. 183; p. 939.
Sehrt, John, St. Louis, Mo. Seal-lock for boxes. No. 1,021,165; Mar. 26; Sp. p. 4586; Gaz. vol. 176; p. 843.
Seib, George A., Ilion, assignor to The Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 1,027,776; May 28; Sp. p. 5858; Gaz. vol. 178; p. 1019.
Seibak, Arthur C., San Francisco, Cal. Motor-wheel for cycles. No. 1,041,519; Oct. 15; Gaz. vol. 183; p. 689.
Seibert, August, Harvey, Ill. Resilient wheel. No. 1,040,436; Oct. 8; Gaz. vol. 183; p. 287.
Seibert, Christopher A., Sandyville, Ohio. Saw-clamp. No. 1,016,963; Feb. 13; Sp. p. 1631; Gaz. vol. 175; p. 286.
Seibert, Jacob O. M., assignor of one-half to G. F. Voris, Chicago, Ill. Railway hat-check ticket. No. 1,043,153; Nov. 5; Gaz. vol. 184; p. 37.
Seibold, Christian, Newark, N. J. Fender. No. 1,046,659; Dec. 10; Gaz. vol. 185; p. 339.
Seidel, Adolph H., assignor to The Toledo Machine & Tool Company, Toledo, Ohio. Drawing-press. No. 1,013,902; Jan. 9; Sp. p. 1816; Gaz. vol. 174; p. 311.
Seidel, Lothar. (See Miram and Seidel.)

Alphabetical list of patentees—Continued.

Seidel, William. (See Windmueller, Paul E., assignor.)
Seidelinger, Robie, Wilmington, Del., assignor to The Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 1,016,297; Feb. 6; Sp. p. 133; Gaz. vol. 175; p. 21.
Seidenbecker, Grover F., Chicago, Ill. Sash-lock. No. 1,020,454; Mar. 19; Sp. p. 3061; Gaz. vol. 176; p. 554.
Seidenberg & Company. (See Schneider, Anthony, assignor.)
Seidenschnur, Friedrich, Charlottenburg, Germany. Preserving timber by means of phenolate solutions. No. 1,034,652; Aug. 6; Gaz. vol. 181; p. 82.
Seidenschnur, Friedrich, Charlottenburg, and J. Dehnst, Halensee, near Berlin, Germany. Composition of matter and preserving and fireproofing wood. No. 1,041,681; Oct. 15; Gaz. vol. 183; p. 742.
Seidenschnur, Friedrich, Charlottenburg, and J. Dehnst, Halensee, near Berlin, Germany. Compositions of matter and preserving and fireproofing wood. No. 1,041,682; Oct. 15; Gaz. vol. 183; p. 742.
Seifert, George, Northampton, Pa. Flying-machine. No. 1,014,857; Jan. 16; Sp. p. 3952; Gaz. vol. 174; p. 668.
Seifke, Herman A., San Francisco, Cal. Rotary mixer. No. 1,032,029; July 9; Gaz. vol. 180; p. 449.
Seifried, Earl J. and I. G., Findlay, Ohio. Resilient hub for vehicle-wheels. No. 1,022,567; Apr. 9; Sp. p. 1715; Gaz. vol. 177; p. 303.
Seifried, Henry. (See Roth, Anthony, assignor.)
Seifried, Isaac G. (See Seifried, Earl J. and I. G.)
Seigle, William R., Nashua, N. H. Machine for winding pulp tubes. No. 1,037,671; Sept. 3; Gaz. vol. 182; p. 167.
Seigle, William R., Nashau, N. H. Machine for winding paper tubes. No. 1,040,437; Oct. 8; Gaz. vol. 183; p. 287.
Seigle, William R., Nashua, N. H. Constructing wound paper tubes. No. 1,040,438; Oct. 8; Gaz. vol. 183; p. 287.
Seigle, William R., Nashua, N. H., assignor to H. W. Johns-Manville Company, New York, N. Y. Pulp-tube machine. No. 1,037,670; Sept. 3; Gaz. vol. 182; p. 166.
Seiler, Peter W. (See Sander and Seiler.)
Seiler, Philipp. (See Keller and Seiler.)
Seiltz, Otto H., Green Bay, Wis. Checkrein-support. No. 1,040,787; Oct. 8; Gaz. vol. 183; p. 411.
Seineke. Frank G., Johannesburg, Transvaal. Means for straightening or altering the direction or course of a bore-hole. No. 1,022,705; Apr. 9; Sp. p. 2037; Gaz. vol. 177; p. 352.
Seipp, Henry C., Pittsburgh, Pa. Safety-tread. No. 1,015,642; Jan. 23; Sp. p. 5630; Gaz. vol. 174; p. 963.
Seiter & Kappes Lithographing Co. (See Stranders, Julien, assignor.)
Seitz, Charles, Albany, N. Y. Clutch mechanism. No. 1,016,647; Feb. 6; Sp. p. 953; Gaz. vol. 175; p. 143.
Seitz, Edward, Peoria, Ill. Vapor-lamp. No. 1,044,267; Nov. 12; Gaz. vol. 184; p. 458.
Seitz, Frederick, Rensselaer, N. Y. Tool-holder. No. 1,017,112; Feb. 13; Sp. p. 1970; Gaz. vol. 175; p. 338.
Selah, Howard A., Philadelphia, assignor to H. R. Hoopes, West Chester, Pa. Valve. No. 1,014,263; Jan. 9; Sp. p. 2608; Gaz. vol. 174; p. 435.
Selah, Howard A., assignor to C. N. Anderson, trustee, Philadelphia, Pa. Magnetic rotary meter. No. 1,016,964; Feb. 13; Sp. p. 1633; Gaz. vol. 175; p. 287.
Selakosky, Wilson, White Haven, Pa. Air-compressor. No. 1,044,583; Nov. 19; Gaz. vol. 184; p. 597.
Selchow & Righter Company. (See Stranders, Julien, assignor.)
Selden, Arthur R., Rochester, N. Y. Centrifugal drier. No. 1,025,485; May 7; Sp. p. 841; Gaz. vol. 178; p. 132.
Selden. George B., Rochester, N. Y. Road-engine. No. 1,028,501; June 4; Sp. p. 965; Gaz. vol. 179; p. 145.
Selden, Metellus D., and R. L. Graves, Memphis, Tenn. Automatic electric speed-regulator. No. 1,040,586; Oct. 8; Gaz. vol. 183; p. 341.
Self-Sharpening Pencil Company. (See Crane, Newton, assignor.)
Selg, Otto, New York, N. Y. Percolator. No. 1,015,407; Jan. 23; Sp. p. 5125; Gaz. vol. 174; p. 880.
Selick, Henry P., Steubenville, Ohio. Scraper for condensers. No. 1,037,672; Sept. 3; Gaz. vol. 182; p. 167.
Selig, William N. (See Hoglund, Gustav E., assignor.)
Selin, Charles, Brooklyn, N. Y. Automatic drainage-governor. No. 1,017,178; Feb. 13; Sp. p. 2110; Gaz. vol. 175; p. 362.
Selkirk, William M. (See Brock and Selkirk.)
Selkirk, William M., Monessen, assignor to Pittsburgh Steel Products Co., Pittsburgh, Pa. Mechanism for rolling tubing. No. 1,020,455; Mar. 19; Sp. p. 3062; Gaz. vol. 176; p. 554.
Selkovits, Max. (See Greenwald, Blaustein, Weiss, and Selkovits.)
Sell Horse Goods Company, The. (See James, Henry H., assignor.)
Sellar, John L., Baltimore, Md. Non-refillable-bottle stopper. No. 1,015,591; Jan. 23; Sp. p. 5524; Gaz. vol. 174; p. 945.
Sellard, Edmond B., Mexico, Mo. Gearing for motor-driven plows. No. 1,030,686; June 25; Sp. p. 5917; Gaz. vol. 179; p. 1011.
Sellard, Edmond B., Mexico, Mo. Gang and motor plow. No. 1,030,687; June 25; Sp. p. 5920; Gaz. vol. 179; p. 1012.
Selle, Frank A., Chicago, Ill. Package-receptacle. No. 1,027,568; May 28; Sp. p. 5447; Gaz. vol. 178; p. 952.
Selle, Harry W., Chicago, Ill. Excelsior-knife. No. 1,033,202; July 23; Gaz. vol. 180; p. 931.
Seller, Henry. (See Vaughn, Joseph J., assignor.)
Sellers, Albert F., *et al.* (See Roadhouse, Norman F., assignor.)
Sellers, Elias H., *et al.* (See Roadhouse, Norman F., assignor.)
Sellers, James H., Cottonwood, Ala. Fertilizer-distributer. No. 1,042,286; Oct. 22; Gaz. vol. 183; p. 982.
Sellers, Morris, and H. M. Nicholls, Chicago, Ill. Balling-furnace. No. 1,029,234; June 11; Sp. p. 2520; Gaz. vol. 179; p. 428.
Sellers, Morris, and H. M. Nicholls, Chicago, Ill. Balling scrap. No. 1,029,235; June 11; Sp. p. 2527; Gaz. vol. 179; p. 428.
Sellers, Wilfred, and H. C. Beck, Elwood, Ind. Guarded caster. No. 1,018,211; Feb. 20; Sp. p. 4392; Gaz. vol. 175; p. 755.
Sellers, William C., Carlsbad, N. Mex. Vehicle-wheel. No. 1,033,739; July 23; Gaz. vol. 180; p. 1107.
Sellers, William M., Mitchell, Ind. Rounder for circular saws. No. 1,043,470; Nov. 5; Gaz. vol. 184; p. 152.
Sellew, William H., Detroit, and E. A. Everett, Highland Park, Mich. Insulated rail-joint. No. 1,022,884; Apr. 9; Sp. p. 2408; Gaz. vol. 177; p. 412.
Sellheim, Henry, New York, assignor of three-fourths to P. Bloom, Brooklyn, N. Y. Vault-cover. No. 1,032,864; July 16; Gaz. vol. 180; p. 779.
Sellman, Josephus B., Texarkana, Ark. Churn. No. 1,047,312; Dec. 17; Gaz. vol. 185; p. 597.
Sells, William H., Buffalo, N. Y. Corn-husking machine. No. 1,028,616; June 4; Sp. p. 1200; Gaz. vol. 179; p. 183.
Selmersheim, Tony, Paris, France. Machine for reproducing the configuration of objects. No. 1,021,005; Mar. 26; Sp. p. 4251; Gaz. vol. 176; p. 790.
Selwa, Stanislaw, Lorain, Ohio. Cleaner device. No. 1,042,828; Oct. 29; Gaz. vol. 183; p. 1199.
Selwig, Johannes, Brunswick, Germany. Centrifugal machine. No. 1,046,340; Dec. 3; Gaz. vol. 185; p. 188.
Selzer, Michel J., assignor to The American Tire & Rubber Company, Akron, Ohio. Cushion-tire for vehicle-wheels. No. 1,026,468; May 14; Sp. p. 3042; Gaz. vol. 178; p. 502.
Semans, George E. L., Pittsburgh, Pa. Nut-lock. No. 1,034,312; July 30; Gaz. vol. 180; p. 1333.
Semet-Solvay Company. (See Jones, Morton, and Terziev, assignors.)
Semet-Solvay Company. (See King, Eugene W., assignor.)
Semet-Solvay Company. (See Royce, Howard W., assignor.)
Semmes, Raphael T., Savannah, Ga. Sheet-metal piping. No. 1,017,920; Feb. 20; Sp. p. 3760; Gaz. vol. 175; p. 654.
Semoff, Meyer, New York, N. Y. Swivel-loom. No. 1,030,928; July 2; Gaz. vol. 180; p. 26.
Semon, William H., Cleveland, Ohio. Nut-lock. No. 1,040,788; Oct. 8; Gaz. vol. 183; p. 411.
Semple, Charles H., Trenton, N. J. Apparatus for making tires. No. 1,034,372; July 30; Gaz. vol. 180; p. 1356.
Semple, John B., Sewickley, Pa. Projectile. (Reissue.) No. 13,406; Apr. 16; Sp. p. 4264; Gaz. vol. 177; p. 749.
Semran, Alexander M., and K. S. Forbes, Odessa, Minn. Self-anchoring stump pulling and hoisting apparatus. No. 1,027,286; May 21; Sp. p. 4864; Gaz. vol. 178; p. 819.
Senac, Ramon, Madrid, Spain. Receptacle or package of compressed paper and method of and means for making same. No. 1,023,764; Apr. 16; Sp. p. 4211; Gaz. vol. 177; p. 739.
Senacol, David, Greenwood, British Columbia, Canada. Life-boat-releasing appliance. No. 1,026,469; May 14; Sp. p. 3043; Gaz. vol. 178; p. 502.
Senator, Andrew, Newark, N. J. Tie-clasp. No. 1,020,316; Mar. 12; Sp. p. 2774; Gaz. vol. 176; p. 470.
Send, Maurice W., Detroit, Mich. Bottle-stopper. No. 1,022,443; Apr. 9; Sp. p. 1460; Gaz. vol. 177; p. 262.
Seneca Camera Manufacturing Company. (See Goddard and Dorsey, assignors.)
Senftleben, Otto J., Peru, assignor to Western Clock Co., La Salle, Ill. Safety device for presses. No. 1,044,696; Nov. 19; Gaz. vol. 184; p. 637.
Senior, Jacob. (See Molinares, Antonio, assignor.)
Senn, George T., assignor of one-half to H. M. Beach, Ottawa, Ontario, Canada. Railway cattle-guard. No. 1,036,154; Aug. 20; Gaz. vol. 181; p. 663.
Senn, Karl, Alameda, Cal. Pan-motion belt-concentrator. No. 1,044,697; Nov. 19; Gaz. vol. 184; p. 637.
Sensenschmidt, Max, and E. Kaiser, Frankfort-on-the-Main, Germany. Control device for ticket-stamping machines. No. 1,025,317; May 7; Sp. p. 478; Gaz. vol. 178; p. 74.
Senssenbrenner, Carl, Dusseldorf-Oberkassel, Germany. Combined condensing and evaporating apparatus for ice-making machines. No. 1,017,695; Feb. 20; Sp. p. 3186; Gaz. vol. 175; p. 573.

Alphabetical list of patentees—Continued.

Senter, Ralph T., Buffalo, N. Y., and L. A. Kling, Elizabeth, N. J., assignors, by mesne assignments, to The Near-Side Car Company, New York, N. Y. Ventilator. No. 1,036,352; Aug. 20; Gaz. vol. 181; p. 733.
Senter, Ralph T., Buffalo, N. Y., and L. A. Kling, Elizabeth, N. J., assignors, by mesne assignments, to The Near-Side Car Company, New York, N. Y. Ventilator. No. 1,039,201; Sept. 24; Gaz. vol. 182; p. 770.
Separate Recovery Company of America, The. (See Hopkins, Mathew S., assignor.)
Separator Aktienbolaget Fama. (See Salenius, Anders G. G., assignor.)
Seppala, Oscar A., Chicago, Ill. Automobile-fender. No. 1,018,085; Feb. 20; Sp. p. 4122; Gaz. vol. 175; p. 711.
Sepulveda, Frank R. (See Wilkinson, Wilcie W., assignor.)
Serafinski, John F., Phillipsburg, N. J. Fly-trap. No. 1,015,643; Jan. 23; Sp. p. 5631; Gaz. vol. 174; p. 963.
Serfoss, Aaron, Ashley, Pa. Pipe-wrench. No. 1,019,280; Mar. 5; Sp. p. 616; Gaz. vol. 176; p. 96.
Sergent, George M. (See Mielke and Sergent.)
Serna, C. O., *et al.* (See Arellano, Francisco, assignor.)
Serna, E. A., *et al.* (See Arellano, Francisco, assignor.)
Serpek, Ottokar, Zurich, Switzerland. Removing impurities from impure aluminous material and producing nitrogen compounds therefrom. No. 1,016,526; Feb. 6; Sp. p. 682; Gaz. vol. 175; p. 102.
Serpek, Ottokar, assignor to Societe Generale des Nitrures, Paris, France. Manufacturing aluminum nitrid. No. 1,030,929; July 2; Gaz. vol. 180; p. 27.
Serpek, Ottokar, assignor to Societe Generale des Nitrures, Paris, France. Manufacture of ammonia by means of aluminium nitrid. No. 1,040,439; Oct. 8; Gaz. vol. 183; p. 288.
Serpek, Ottokar, assignor to Société Generale des Nitrures, Paris, France. Electrical resistance-furnace. No. 1,044,927; Nov. 19; Gaz. vol. 184; p. 717.
Serpek, Ottokar, assignor to Société Generale des Nitrures, Paris, France. Revolving electrical furnace with resistances arranged diametrically. No. 1,044,928; Nov. 19; Gaz. vol. 184; p. 717.
Serrurier, Phillip D., Savanna, Ill. Guard-rail. No. 1,024,952; Apr. 30; Sp. p. 6909; Gaz. vol. 177; p. 1214.
Servel, Alfred, Temecula, Cal. Adjustable reversible right and left hand plow. No. 1,044,824; Nov. 19; Gaz. vol. 184; p. 681.
Service, John A., New Orleans, La. Safety-razor. No. 1,038,666; Sept. 17; Gaz. vol. 182; p. 571.
Sessions, Albert L., Bristol, Conn. Sheet-metal structure. No. 1,018,728; Feb. 27; Sp. p. 5556; Gaz. vol. 175; p. 962.
Sessions, Albert L., Bristol, Conn. Washer. No. 1,028,290; June 4; Sp. p. 500; Gaz. vol. 179; p. 73.
Sessions, Albert L., Bristol, Conn. Trunk-fastener. No. 1,036,733; Aug. 27; Gaz. vol. 181; p. 894.
Sessions, Albert L., Bristol, Conn. Hinge. No. 1,036,734; Aug. 27; Gaz. vol. 181; p. 894.
Sessions Clock Company, The. (See Bryce, William, assignor.)
Sessions, Frank L., Columbus, Ohio, assignor, by mesne assignments, to The Jeffrey Manufacturing Company, Rack-rail locomotive. No. 1,027,074; May 21; Sp. p. 4428; Gaz. vol. 178; p. 748.
Sessions, Frank L., Columbus, Ohio, assignor, by mesne assignments, to The Jeffrey Manufacturing Company. Locomotive. No. 1,027,075; May 21; Sp. p. 4432; Gaz. vol. 178; p. 748.
Sessions, Frank L., Columbus, Ohio, assignor to The Jeffrey Manufacturing Company. Rack-rail. No. 1,027,076; May 21; Sp. p. 4438; Gaz. vol. 178; p. 749.
Sessions, Frank L., Columbus, Ohio, assignor to The Jeffrey Manufacturing Company. Rack-rail locomotive. No. 1,027,077; May 21; Sp. p. 4439; Gaz. vol. 178; p. 749.
Sessions, Frank L., Columbus, Ohio, assignor to The Jeffrey Manufacturing Company. Rack-rail locomotive. No. 1,027,078; May 21; Sp. p. 4443; Gaz. vol. 178; p. 749.
Sessions, Frank L., Columbus, Ohio, assignor to The Jeffrey Manufacturing Company. Grid resistance. No. 1,031,382; July 2; Gaz. vol. 180; p. 186.
Sessions, Frank L., Columbus, Ohio, assignor to Jeffrey Manufacturing Company. Locomotive current-supplying mechanism. No. 1,035,249; Aug. 13; Gaz. vol. 181; p. 314.
Sessions, Frank L., Columbus, Ohio, assignor, by mesne assignments, to The Jeffrey Manufacturing Company. Breaker for electric circuits. No. 1,040,440; Oct. 8; Gaz. vol. 183; p. 288.
Sessions, Frank L., Columbus, Ohio, assignor to The Jeffrey Manufacturing Company. Means for assembling and disassembling electric motors. No. 1,043,633; Nov. 5; Gaz. vol. 184; p. 208.
Sessions, Frank L., and F. C. Coseo, Columbus, Ohio, assignors, by mesne assignments, to The Jeffrey Manufacturing Company. Electric locomotive. No. 1,027,073; May 21; Sp. p. 4421; Gaz. vol. 178; p. 747.
Sessions, William J., Desoto, Ga. Combined saddle and back-band. No. 1,040,035; Oct. 1; Gaz. vol. 183; p. 122.
Sessler, Leonhardt, Bottenweiler, near Zumhaus, Germany. Cultivator. No. 1,046,872; Dec. 10; Gaz. vol. 185; p. 413.
Sessom, Robert L., Thyatria, Miss. Scrubbing-machine. No. 1,030,335; June 25; Sp. p. 4967; Gaz. vol. 179; p. 885.
Seth Thomas Clock Company. (See Armour, William A., assignor.)
Seth Thomas Clock Company. (See Bell, Charles H., assignor.)
Settecase, Biagio, Louisville, Ky. Double-ended electric lamp. No. 1,044,825; Nov. 19; Gaz. vol. 184; p. 681.
Settegast, Bernhard, Karlshorst, near Berlin, assignor to Deutsche Telephonwerke G. m. b. H., Berlin, Germany. Selector for automatic telephone-exchanges. No. 1,015,644; Jan. 23; Sp. p. 5632; Gaz. vol. 174; p. 964.
Settegast, Bernhard, Karlshorst, near Berlin, assignor to Deutsche Telephonwerke G. m. b. H., Berlin, Germany. Selector for automatic telephone-exchanges. No. 1,038,213; Sept. 10; Gaz. vol. 182; p. 379.
Setterberg, Albert, Denver, Colo. Door-fan. No. 1,038,667; Sept. 17; Gaz. vol. 182; p. 571.
Severance, Charles D., Greenfield, Mass. Gearing. No. 1,045,200; Nov. 26; Gaz. vol. 184; p. 839.
Severson, Myron L., assignor of one-half to W. S. Spiegelberg, Passaic, N. J. Mechanically-operated search-light. No. 1,027,913; May 28; Sp. p. 6219; Gaz. vol. 178; p. 1067.
Severy, Melvin L., Arlington Heights, and G. B. Sinclair, Medford, Mass. Tuning device for pianos. No. 1,026,228; May 14; Sp. p. 2519; Gaz. vol. 178; p. 421.
Sewall, Daniel D. (See Sewall, James H., assignor.)
Sewall, James H., Keene, N. H., assignor of one-half to D. D. Sewall, Augusta, Me. Belt-tightener. No. 1,016,787; Feb. 6; Sp. p. 1238; Gaz. vol. 175; p. 191.
Sewall, Minott W., New York, N. Y., assignor to The Babcock & Wilcox Company, Bayonne, N. J. Steam-boiler. No. 1,035,646; Aug. 13; Gaz. vol. 181; p. 452.
Seward, Ernest R. (See Pearson and Seward.)
Seward, Ernest R., assignor to The Hartford Machine Screw Company, Hartford, Conn. Mechanical movement. No. 1,014,184; Jan. 9; Sp. p. 2421; Gaz. vol. 174; p. 406.
Seward, Ernest R., assignor to The Hartford Machine Screw Company, Hartford, Conn. Pump. No. 1,018,379; Feb. 20; Sp. p. 4734; Gaz. vol. 175; p. 811.
Seward, George O., East Orange, N. J., F. von Kügelgen and F. von Bidder, Holcombs Rock, Va., assignors to Virginia Laboratory Company, New York, N. Y. Electrolytic production of light metals. No. 1,043,154; Nov. 5; Gaz. vol. 184; p. 38.
Seward, Percy G., Petersburg, Va. Tire. No. 1,049,157; Dec. 31; Gaz. vol. 185; p. 1297.
Sewell, Herbert J., Detroit, Mich. Vehicle-wheel. No. 1,026,370; May 14; Sp. p. 2836; Gaz. vol. 178; p. 469.
Sewer Deodorizing Company, The. (See Beeman, Clarence E., assignor.)
Sexton, Edwin C., Wichita, and C. E. Jackson, Minneapolis, Kans. Oil-burner. No. 1,031,473; July 2; Gaz. vol. 180; p. 218.
Sexton, Frederick P. (See Frew and Sexton.)
Sexton, Lee, Arjay, Ky. Rail-fastener. No. 1,027,569; May 28; Sp. p. 5449; Gaz. vol. 178; p. 953.
Seybert, Guy W., Batson, Tex. Pump-jack. No. 1,024,033; Apr. 23; Sp. p. 4846; Gaz. vol. 177; p. 860.
Seybold, Charles, Dayton, Ohio. Safety-lock for paper-cutting machines. No. 1,040,441; Oct. 8; Gaz. vol. 183; p. 288.
Seybold, Charles, Dayton, Ohio. Friction-clutch. No. 1,047,313; Dec. 17; Gaz. vol. 185; p. 597.
Seybold, James A. G., Harvard, Nebr. Carpet-stretcher. No. 1,027,914; May 28; Sp. p. 6221; Gaz. vol. 178; p. 1068.
Seydel, Otto, New York, N. Y. Kite. No. 1,016,180; Jan. 30; Sp. p. 6751; Gaz. vol. 174; p. 1173.
Seyerle, Frederick J., Pittsburgh, Pa. Switch. No. 1,045,897; Dec. 3; Gaz. vol. 185; p. 34.
Seyl, Joseph C., Chicago, Ill. Sanitary water-closet. No. 1,037,062; Aug. 27; Gaz. vol. 181; p. 1004.
Seymour, Charles R., assignor to M. D. Knowlton Company, Rochester, N. Y. Machine for applying box-corner stays. No. 1,037,063; Aug. 27; Gaz. vol. 181; p. 1005.
Seymour, Frederick C., assignor to Joseph Halsted Co., Chicago, Ill. Counterbalanced stair. No. 1,015,645; Jan. 23; Sp. p. 5643; Gaz. vol. 174; p. 964.
Seymour, George E., New Albany, Ind., assignor to American Car and Foundry Company, St. Louis, Mo. Letter-drop for doors. No. 1,032,304; July 9; Gaz. vol. 180; p. 543.
Seymour, Henry A., Washington, D. C. Means for storing and launching life-boats. No. 1,033,480; July 23; Gaz. vol. 180; p. 1023.
Seymour, John S., Whitney Point, N. Y. Metallic railway. No. 1,013,960; Jan. 9; Sp. p. 1952; Gaz. vol. 174; p. 331.
Seymour, Joseph A., Fabyan, N. H. Knife-sharpener. No. 1,027,005; May 21; Sp. p. 4243; Gaz. vol. 178; p. 723.
Seymour, Morris W., trustee. (See Wallace and Steiger, assignors.)

Alphabetical list of patentees—Continued.

Seymour, Ralph C., Larchmont, N. Y., assignor to Goss Printing Press Company, Chicago, Ill. Sheet-handling machine. No. 1,015,716; Jan. 23; Sp. p. 5789; Gaz. vol. 174; p. 987.
Seymour, Ralph C., Larchmont, N. Y., assignor to Goss Printing Press Company, Chicago, Ill. Making pamphlets or magazines. No. 1,015,745; Jan. 23; Sp. p. 5850; Gaz. vol. 174; p. 997.
Seymour, Ralph C., Larchmont, N. Y., assignor to Goss Printing Press Company, Chicago, Ill. Folding-machine. No. 1,024,459; Apr. 23; Sp. p. 5772; Gaz. vol. 177; p. 1004.
Seymour, Ralph C., Larchmont, N. Y., assignor to Goss Printing Press Company, Chicago, Ill. Sheet-handling machine. No. 1,024,460; Apr. 23; Sp. p. 5778; Gaz. vol. 177; p. 1004.
Seymour, Ralph C., Larchmont, N. Y., assignor to Goss Printing Press Company, Chicago, Ill. Folding-machine. No. 1,025,486; May 7; Sp. p. 846; Gaz. vol. 178; p. 132.
Seymour, Ralph C., Larchmont, N. Y., assignor to Goss Printing Press Company, Chicago, Ill. Binding and folding machine. No. 1,025,487; May 7; Sp. p. 854; Gaz. vol. 178; p. 133.
Seymour, Ralph C., Larchmont, N. Y., assignor to Goss Printing Press Company, Chicago, Ill. Book or pamphlet binding machine. No. 1,048,899; Dec. 31; Gaz. vol. 185; p. 1208.
Seymour, Ralph C., Larchmont, assignor, by mesne assignments, to C. B. Cottrell & Sons Company, New York, N. Y. Associating and binding machine. No. 1,048,357; Dec. 24; Gaz. vol. 185; p. 982.
Seymour, Walter I., Chicago, Ill., assignor, by mesne assignments, to United Bifocal Company, New York, N. Y. Making bifocal-lens blanks. No. 1,024,486; Apr. 23; Sp. p. 5840; Gaz. vol. 177; p. 1016.
Seymour, Walter I., Chicago, Ill., assignor, by mesne assignments, to United Bifocal Company, New York, N. Y. Making lens-blanks. No. 1,026,182; May 14; Sp. p. 2401; Gaz. vol. 178; p. 405.
Seymour, William, Grand Rapids, Mich. Pressure-indicator. No. 1,037,550; Sept. 3; Gaz. vol. 182; p. 127.
Shackelford, John A. (See Smith, Jessie E., assignor.)
Shackleford, Gibbon C., P. J. Gordon, Youngstown, Ohio, and A. K. McMillen, Sheridan, Pa. Continuous heating-furnace. No. 1,027,915; May 28; Sp. p. 6222; Gaz. vol. 178; p. 1068.
Shackleford, Marion L., Oatman, Ariz. Flying-machine. No. 1,028,971; June 11; Sp. p. 1957; Gaz. vol. 179; p. 338.
Shackleton, Alfred, Chicago, Ill. Hydrocarbon-burner. No. 1,044,268; Nov. 12; Gaz. vol. 184; p. 458.
Shackleton, Harry H. (See Carter, Shackleton, and Grafton.)
Shadlofski, Anthony, Plymouth, Pa. Automatic motor-vehicle brake. No. 1,040,244; Oct. 1; Gaz. vol. 183; p. 191.
Shaeffer, Absalom D., Kittanning, Pa. Trap. No. 1,041,520; Oct. 15; Gaz. vol. 183; p. 689.
Shaeffer, Harry B., Altoona, Pa. Producing photographic backgrounds. No. 1,040,036; Oct. 1; Gaz. vol. 183; p. 122.
Shafer, Charles E., Lewistown, Md. Fish-can. No. 1,023,531; Apr. 16; Sp. p. 3773; Gaz. vol. 177; p. 667.
Shafer, Charles E., Lewistown, Md. Combined hoe and potato-digger. No. 1,026,470; May 14; Sp. p. 3047; Gaz. vol. 178; p. 503.
Shafer, Clinton, Upper Sandusky, Ohio. Acetylene-gas generator. No. 1,025,723; May 7; Sp. p. 1364; Gaz. vol. 178; p. 212.
Shafer, Eldon H., Orenco, Oreg. Razor-strop. No. 1,032,954; July 16; Gaz. vol. 180; p. 806.
Shafer, Florence A., Los Angeles, Cal. Supporter for plumes for headwear and other purposes. No. 1,023,105; Apr. 23; Sp. p. 5013; Gaz. vol. 177; p. 885.
Shafer, Henry L., and C. G. Smith, Los Angeles, Cal. Drinking vessel. No. 1,034,313; July 30; Gaz. vol. 180; p. 1334.
Shafer, Homer R., Detroit, Mich. Combined loose-leaf clip and note-book holder. No. 1,048,217; Dec. 24; Gaz. vol. 185; p. 936.
Shafer, James H., and T. Cornuelle, Madisonville, Ohio. Separator and washer. No. 1,033,203; July 23; Gaz. vol. 180; p. 931.
Shafer, John P. (See La Moine and Shafer.)
Shaffer, Alfred W. (See Shaffer, Lewis and A. W.)
Shaffer, C. H. (See Simpson, Horatio S., assignor.)
Shaffer, George W., Buffalo, N. Y. Friction-clutch. No. 1,029,147; June 11; Sp. p. 2342; Gaz. vol. 179; p. 399.
Shaffer, Lewis and A. W., Duryea, Pa. Miner's combination tamping-tool, &c. No. 1,040,037; Oct. 1; Gaz. vol. 183; p. 122.
Shaffer, Lewis D., Paint borough, Pa. Line-carrier. No. 1,041,683; Oct. 15; Gaz. vol. 183; p. 742.
Shaffer, Macarius E., Mount Savage, Md. Spike-puller. No. 1,028,291; June 4; Sp. p. 502; Gaz. vol. 179; p. 73.
Shaffer, Morton J., New York, N. Y. Reversible and expanding envelop. No. 1,042,488; Oct. 29; Gaz. vol. 183; p. 1081.
Shaffer, Ora C., assignor of forty-five one-hundredths to G. Jones, Van Wert, Ohio. Hasp. No. 1,029,237; June 11; Sp. p. 2534; Gaz. vol. 179; p. 429.
Shaffer, Randolph, Albany, Ga. Automatic gasolene-vending machine. No. 1,019,372; Mar. 5; Sp. p. 850; Gaz. vol. 176; p. 127.
Shaffer, Richard M. (See Gardiner and Shaffer.)
Shaffer, Samuel L., Philadelphia, Pa. Apparatus for constructing concrete piers, walls, and the like. No. 1,021,806; Apr. 2; Sp. p. 105; Gaz. vol. 177; p. 21.
Shaffer, William T., Evanston, Wyo. Cleaner. No. 1,040,038; Oct. 1; Gaz. vol. 183; p. 123.
Shaffert, Henry, East Pittsburgh, Pa. Trolley. No. 1,040,789; Oct. 8; Gaz. vol. 183; p. 411.
Shaft, Willis S., Faribault, Minn. Window-shade. No. 1,038,005; Sept. 10; Gaz. vol. 182; p. 311.
Shaftless Speedometer Company. (See Frank, Vincent, assignor.)
Shafto, Le Roy R., Elm Creek, Nebr. Hay stacker and loader. No. 1,021,898; Apr. 2; Sp. p. 313; Gaz. vol. 177; p. 52.
Shahan, Frederick E., Philadelphia, Pa. Rod-packing. No. 1,035,484; Aug. 13; Gaz. vol. 181; p. 397.
Shailor, Frank E. (See Kuhn and Shailor.)
Shakely, Chester A. A., Oil City, Pa. Folding square. No. 1,021,850; Apr. 2; Sp. p. 210; Gaz. vol. 177; p. 35.
Shaler, Clarence A., Waupun, Wis. Electrical heating unit. No. 1,044,269; Nov. 12; Gaz. vol. 184; p. 459.
Shaler, Clarence A., Waupun, Wis. Electrical heating-pad. No. 1,044,270; Nov. 12; Gaz. vol. 184; p. 459.
Shallenberger, Charles S., St. Louis, Mo., assignor to Double Body Bolster Company. Car end underframe. No. 1,048,431; Dec. 24; Gaz. vol. 185; p. 1007.
Shanahan, John W. (See Mason and Shanahan.)
Shanaman, John K. (See Shope and Shanaman.)
Shand, Stead I., Columbia, S. C. Automatic gas and drain valve. No. 1,016,100; Jan. 30; Sp. p. 6613; Gaz. vol. 174; p. 1149.
Shands, James S., Gainesville, Fla. Bracket for turpentine-cups. No. 1,015,213; Jan. 16; Sp. p. 4669; Gaz. vol. 174; p. 788.
Shank, Daniel, Clayton, Ill. Road-drag. No. 1,018,785; Feb. 27; Sp. p. 5681; Gaz. vol. 175; p. 982.
Shank, George W., Moncure, N. C. Nut-lock. No. 1,039,599; Sept. 24; Gaz. vol. 182; p. 910.
Shank, Leroy S., assignor of one-half to W. A. Morris, Findlay, Ohio. Towel-cabinet. No. 1,018,011; Feb. 20; Sp. p. 3954; Gaz. vol. 175; p. 684.
Shank, Orey D., Philadelphia, Pa. Side-rein checking device. No. 1,030,022; June 18; Sp. p. 4253; Gaz. vol. 179; p. 736.
Shank, Reuben J., Des Moines, Iowa. Combined altitude-gage and thermometer. No. 1,031,679; July 2; Gaz. vol. 180; p. 288.
Shank, Simon H., Chicago, Ill. Lock. No. 1,026,001; May 14; Sp. p. 1988; Gaz. vol. 178; p. 342.
Shankle, Grover C., Ennis, Tex. Section-harrow. No. 1,026,411; May 14; Sp. p. 2921; Gaz. vol. 178; p. 484.
Shanks, Charles F., Johnstone, Scotland. Milling-machine. No. 1,021,430; Mar. 26; Sp. p. 5167; Gaz. vol. 176; p. 935.
Shanks, Charles F., Johnstone, Scotland. Milling and boring machine. No. 1,022,051; Apr. 2; Sp. p. 638; Gaz. vol. 177; p. 101.
Shanks, Edward B., Springwood, assignor to M. Frank, Richmond, Va. Paper-bag-delivery machine. No. 1,019,093; Mar. 5; Sp. p. 189; Gaz. vol. 176; p. 30.
Shanks, Rose J. A. (See Jackson, Thomas C., assignor.)
Shannon, Earl D., Alpena, Mich. Heater for steering devices for motor-driven vehicles. No. 1,042,156; Oct. 22; Gaz. vol. 183; p. 940.
Shannon, Harris C., Cleveland, Ohio, assignor to J. F. Murray, Chicago, Ill. Safety-razor. No. 1,030,023; June 18; Sp. p. 4256; Gaz. vol. 179; p. 737.
Shannon, Jerry C., Springfield, W. Va. Woven-wire grip. No. 1,044,929; Nov. 19; Gaz. vol. 184; p. 717.
Shannon, Michael J., Wallace, Idaho. Metallic railway-tie and rail-fastening therefor. No. 1,035,753; Aug. 13; Gaz. vol. 181; p. 487.
Shannon, Peter, Chicago, Ill. Brush and wiper fixture. No. 1,035,250; Aug. 13; Gaz. vol. 181; p. 315.
Shannon, Samuel F. (See May, William M., assignor.)
Shannon, William T., Cincinnati, Ohio. Metal culvert. No. 1,040,442; Oct. 8; Gaz. vol. 183; p. 289.
Shapiro, Abraham A., Brooklyn, N. Y. Cutting-tool. No. 1,048,218; Dec. 24; Gaz. vol. 185; p. 936.
Shapiro, Benjamin, Washington, D. C. Skirt-marker. No. 1,025,951; May 7; Sp. p. 1883; Gaz. vol. 178; p. 289.
Shapiro, David H., Montreal, Quebec, Canada. Skirt. No. 1,018,012; Feb. 20; Sp. p. 3955; Gaz. vol. 175; p. 684.
Shapiro, Samuel, Philadelphia, Pa. Refrigerating-cover for milk-cans. No. 1,020,719; Mar. 19; Sp. p. 3656; Gaz. vol. 176; p. 643.
Shapiro, Samuel, Philadelphia, Pa. Refrigerating-cover for milk-cans. No. 1,047,997; Dec. 24; Gaz. vol. 185; p. 862.
Shapley, Raymond R., assignor of one-half to B. F. Snavely, Harrisburg, Pa. Lathe-tool. No. 1,021,899; Apr. 2; Sp. p. 315; Gaz. vol. 177; p. 52.

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Shapley, Raymond R., assignor of one-half to B. F. Snavely, Harrisburg, Pa. Gage-cock. No. 1,033,956; July 30; Gaz. vol. 180; p. 1210.
Shapro, Benjamin F., San Francisco, Cal. Connection for water distribution. No. 1,040,039; Oct. 1; Gaz. vol. 183; p. 123.
Shareholders Protective League. (See Kuehn, Paul, assignor.)
Sharinghousen, Louise G. B., Lodi, Cal. Safety hat-pin. No. 1,043,155; Nov. 5; Gaz. vol. 184; p. 38.
Sharit, Benjamin M., Morris, Ala. Device to prevent cows from kicking. No. 1,014,910; Jan. 16; Sp. p. 4058; Gaz. vol. 174; p. 686.
Sharkey, Everett W., Brooklyn, N. Y. Window-cleaning device. No. 1,030,546; June 25; Sp. p. 5465; Gaz. vol. 179; p. 961.
Sharkie, William, Manchester, England. Stop-motion device for doubling and twisting frames, &c. No. 1,033,740; July 23; Gaz. vol. 180; p. 1107.
Sharon, Rolla H, Stotts City, Mo. Clamping device. No. 1,049,277; Dec. 31; Gaz. vol. 185; p. 1337.
Sharp, Benjamin Y., Uvalde, Tex. Extracting wax from the candelilla-plant. No. 1,018,589; Feb. 27; Sp. p. 5276; Gaz. vol. 175; p. 916.
Sharp, Charles E., Pittsburgh, Pa. Attachment for painters' stages. No. 1,017,599; Feb. 13; Sp. p. 2985; Gaz. vol. 175; p. 504.
Sharp, Clayton H., White Plains, and P. S. Millar, New York, N. Y. Photometer attachment. No. 1,015,515; Jan. 23; Sp. p. 5347; Gaz. vol. 174; p. 917.
Sharp, Frank P., Oakland, Cal. Appliance for tapping water-mains. No. 1,039,827; Oct. 1; Gaz. vol. 183; p. 53.
Sharp, Fred N., Ossian, Ind. Hinge. No. 1,018,449; Feb. 27; Sp. p. 4903; Gaz. vol. 175; p. 867.
Sharp, George C., Nicetown, Pa. Clothes-line prop. No. 1,018,523; Feb. 27; Sp. p. 5121; Gaz. vol. 175; p. 892.
Sharp, George W., Enid, Okla. Cement-finishing machine. No. 1,019,539; Mar. 5; Sp. p. 1214; Gaz. vol. 176; p. 180.
Sharp, Isaac M., San Francisco, Cal. Coin-receptacle. No. 1,037,551; Sept. 3; Gaz. vol. 182; p. 127.
Sharp, James A., Springfield, Ohio, assignor to International Harvester Company. Frame-adjusting mechanism for side-delivery rakes. No. 1,019,849; Mar. 12; Sp. p. 1799; Gaz. vol. 176; p. 315.
Sharp, James A., and R. B. Johnston, Springfield, Ohio. Baling-press. No. 1,027,360; May 21; Sp. p. 5008; Gaz. vol. 178; p. 844.
Sharp, John. San Bernardino, Cal. Swivel. No. 1,021,271; Mar. 26; Sp. p. 4816; Gaz. vol. 176; p. 878.
Sharp, John W., Kenyon, Ark. Cotton-planter and fertilizer-distributer. No. 1,025,022; Apr. 30; Sp. p. 7038; Gaz. vol. 177; p. 1236.
Sharp, Joseph W., Jr., Philadelphia, Pa. Closet and seat. No. 1,041,181; Oct. 15; Gaz. vol. 183; p. 576.
Sharp, Lee C., Plattsmouth, Nebr., assignor to American Can Company, New York, N. Y. Can-body forming and seaming machine. No. 1,017,815; Feb. 20; Sp. p. 3498; Gaz. vol. 175; p. 615.
Sharp, Lee C., Plattsmouth, Nebr., assignor to F. Brückmann, Jr., Brunswick, Germany. Mandrel for sheet-metal working. No. 1,025,318; May 7; Sp. p. 480; Gaz. vol. 178; p. 74.
Sharp, Mabel E. (See Lindley, Andrew K., assignor.)
Sharp, Pearl W., Bowbells, N. D. Grain-shocker. No. 1,038,449; Sept. 10; Gaz. vol. 182; p. 463.
Sharp, Robert E., Lebanon, Kans. Hog-rack. No. 1,044,271; Nov. 12; Gaz. vol. 184; p. 459.
Sharp, William E. (See Robbins and Sharp.)
Sharp, William E., Chicago, assignor of one-half to G. B. Robbins, Hinsdale, Ill. Heater. No. 1,013,822; Jan. 2; Sp. p. 1595; Gaz. vol. 174; p. 254.
Sharp, William E., assignor to Alcohol Heating & Lighting Company, Chicago, Ill. Stove. No. 1,023,968; Apr. 23; Sp. p. 4716; Gaz. vol. 177; p. 837.
Sharpe, Joseph K., Jr., Indianapolis, Ind. Preserving fodder. No. 1,013,568; Jan. 2; Sp. p. 1033; Gaz. vol. 174; p. 166.
Sharpe, Joseph K., Jr., assignor to The Indiana Manufacturing Company, Indianapolis, Ind. Pneumatic stacker. No. 1,014,778; Jan. 16; Sp. p. 3760; Gaz. vol. 174; p. 640.
Sharpe, Joseph K., Jr., assignor to The Indiana Manufacturing Company, Indianapolis, Ind. Pneumatic stacker. No. 1,014,779; Jan. 16; Sp. p. 3762; Gaz. vol. 174; p. 640.
Sharpe, Joseph K., Jr., assignor to The Indiana Manufacturing Company, Indianapolis, Ind. Pneumatic stacker. No. 1,028,793; June 4; Sp. p. 1556; Gaz. vol. 179; p. 243.
Sharpe, William A., assignor to The S. & S. Auto Starter Company, Denver, Colo. Engine-starter for automobiles. No. 1,046,030; Dec. 3; Gaz. vol. 185; p. 79.
Sharpe, William D., Bellevue borough, assignor to Pittsburgh Stogie and Cigar Company, Pittsburgh, Pa. Cigar-container. No. 1,045,331; Nov. 26; Gaz. vol. 184; p. 884.
Sharples, David T., West Chester, Pa. Milking apparatus. No. 1,014,671; Jan. 16; Sp. p. 3524; Gaz. vol. 174; p. 604.
Sharples, David T., West Chester, Pa. Pulsating mechanism for milking-machines. No. 1,034,314; July 30; Gaz. vol. 180; p. 1334.
Sharpton, George T. (See Smith, Thomas, assignor.)
Shartle, Charles W., Middletown, Ohio. Pump-gang. No. 1,020,161; Mar. 12; Sp. p. 2462; Gaz. vol. 176; p. 419.
Sharts, Trueman P., assignor of two-thirds to M. M. Spaulding and W. E. Hall, North Adams, Mass. Electric-furnace condenser. No. 1,044,087; Nov. 12; Gaz. vol. 184; p. 396.
Sharts, Trueman P., assignor of two-thirds to M. M. Spaulding and W. E. Hall, North Adams, Mass. Electric furnace. No. 1,044,088; Nov. 12; Gaz. vol. 184; p. 397.
Shattuck, Arthur E., assignor to National Carbonated Liquid Co., San Francisco, Cal. Carbonator. No. 1,029,236; June 11; Sp. p. 2532; Gaz. vol. 179; p. 429.
Shattuck, Charles E., Nashua, N. H., assignor to United Shoe Machinery Company, Paterson, N. J. Pounding-up machine. No. 1,030,751; June 25; Sp. p. 6073; Gaz. vol. 179; p. 1035.
Shatzer, Norman C., Zullinger, Pa. Game. No. 1,016,583; Feb. 6; Sp. p. 814; Gaz. vol. 175; p. 121.
Shaughnessy, John W., Charlotte, N. C. Apparatus for reclaiming waste cotton. No. 1,037,340; Sept. 3; Gaz. vol. 182; p. 53.
Shaulis, Edward F., Indiana, Pa. Uterine supporter. No. 1,019,373; Mar. 5; Sp. p. 853; Gaz. vol. 176; p. 127.
Shaver, George F., New York, N. Y., assignor to Hygienic Soap Granulator Company. Soap-dispensing machine. No. 1,027,218; May 21; Sp. p. 4731; Gaz. vol. 178; p. 795.
Shaver, George F., assignor, by mesne assignments, to Granulator Soap Company, New York, N. Y. Soap-dispensing machine. No. 1,038,214; Sept. 10; Gaz. vol. 182; p. 379.
Shaver, Raleigh A., Plattsburg, Mo. Attachment for seed-planters. No. 1,044,930; Nov. 19; Gaz. vol. 184; p. 717.
Shaw, Alexander R., Billings, Mont. Fruit-picker. No. 1,046,116; Dec. 3; Gaz. vol. 185; p. 109.
Shaw, Bruce A., Davenport, Iowa. Animal-trap. No. 1,015,845; Jan. 30; Sp. p. 6060; Gaz. vol. 174; p. 1057.
Shaw, Charles D., Detroit, Mich. Self-tightening bearing. No. 1,038,006; Sept. 10; Gaz. vol. 182; p. 312.
Shaw, Clarence W., Johnstonville, Cal. Nut-lock. No. 1,022,336; Apr. 2; Sp. p. 1224; Gaz. vol. 177; p. 195.
Shaw, Claude. (See Talbert, Shaw, Holcomb, and Hoke.)
Shaw, Claude, assignor of one-half to The American Box Ball Co., Indianapolis, Ind. Rip-saw machine. No. 1,038,215; Sept. 10; Gaz. vol. 182; p. 380.
Shaw, Daniel W., Fostoria, Kans. End-gate. No. 1,037,341; Sept. 3; Gaz. vol. 182; p. 54.
Shaw, David J., Norwalk, Conn., assignor of one-half to W. J. Murray, New York, N. Y. Rimming-machine. No. 1,043,156; Nov. 5; Gaz. vol. 184; p. 38.
Shaw, Dora P. (See Swinny, Ross P., assignor.)
Shaw, Elbridge G., assignor to L. M. Brooks, Worcester, Mass. Violin. No. 1,042,287; Oct. 22; Gaz. vol. 183; p. 982.
Shaw, Frank B., assignor of one-half to G. D. Whitmore, Middleville, Mich. Checkrein-hook for harness. No. 1,019,704; Mar. 5; Sp. p. 1512; Gaz. vol. 176; p. 234.
Shaw, Frank H. (See Henry and Shaw.)
Shaw, Frank H., Providence, R. I., assignor to C. P. Henry Novelty Company. Bracket for curtain-rods. No. 1,045,898; Dec. 3; Gaz. vol. 185; p. 35.
Shaw, Henry C., Glenshaw, and W. H. Morse, assignors to A. Garrison Foundry Company, Pittsburgh, Pa. Safety device for pitmen and the like. No. 1,048,358; Dec. 24; Gaz. vol. 185; p. 983.
Shaw, James, San Francisco, Cal. Valve. No. 1,019,374; Mar. 5; Sp. p. 855; Gaz. vol. 176; p. 127.
Shaw, James, Sacramento, Cal. Explosive-motor. No. 1,044,089; Nov. 12; Gaz. vol. 184; p. 397.
Shaw, James H., Ashdown, Ark. Baling-press. No. 1,032,783; July 16; Gaz. vol. 180; p. 752.
Shaw, John, deceased, Kirby Moorside, North Riding; J. R. Shaw, Elmsall Lodge, Pontefract, England, administrator. Gear for the prevention of overwinding. No. 1,017,600; Feb. 13; Sp. p. 2988; Gaz. vol. 175; p. 505.
Shaw, John H., assignor to Sargent & Co., New Haven, Conn. Pin-tumbler lock having interchangeable cylinder extensions. No. 1,027,777; May 28; Sp. p. 5861; Gaz. vol. 178; p. 1020.
Shaw, John H., New Haven, and F. I. Kimball, West Haven, assignors to Sargent & Co., New Haven, Conn. Duplex-cylinder pin-tumbler lock. No. 1,018,683; Feb. 27; Sp. p. 5460; Gaz. vol. 175; p. 947.
Shaw, John N., Seattle, Wash. Coffee-cooker. No. 1,022,337; Apr. 2; Sp. p. 1226; Gaz. vol. 177; p. 196.
Shaw, John R., administrator. (See Shaw, John.)
Shaw, John R., Rural Valley, Pa. Tool. No. 1,018,932; Feb. 27; Sp. p. 5978; Gaz. vol. 175; p. 1030.
Shaw, John W. (See Gagné and Shaw.)
Shaw, Joseph A., Rimersburg, Pa. Railway-signal. No. 1,043,471; Nov. 5; Gaz. vol. 184; p. 153.
Shaw, Joseph V., Denver, Colo. Sanitary folding cup. No. 1,034,522; Aug. 6; Gaz. vol. 181; p. 41.

Alphabetical list of patentees—Continued.

Shaw, Linus H., Brockton, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Heel. No. 1,015,846; Jan. 30; Sp. p. 6062; Gaz. vol. 174; p. 1057.
Shaw, Louis E., New York, N. Y. Speed-indicator. No. 1,025,164; May 7; Sp. p. 113; Gaz. vol. 178; p. 20.
Shaw, Orpheus C., assignor to Sectional Threshing Cylinder Co., Spokane, Wash. Threshing-machine cylinder. (Reissue.) No. 13,479; Oct. 15; Gaz. vol. 183; p. 756.
Shaw, Robert H., Logan, Ohio. Poultry-house door. No. 1,043,543; Nov. 5; Gaz. vol. 184; p. 178.
Shaw, Tracy N., Rockford, Ill. Cutting-machine. No. 1,013,903; Jan. 9; Sp. p. 1818; Gaz. vol. 174; p. 311.
Shaw, Tracy N., Rockford, Ill. Cutting-machine. No. 1,043,472; Nov. 5; Gaz. vol. 184; p. 153.
Shaw, W. I., *et al.* (See Thomas, Frank M., assignor.)
Shaw, William, J. Bower, and F. Wilson, Bradford, England. Bur-crushing or like apparatus for use in connection with carding-engines. No. 1,017,179; Feb. 13; Sp. p. 2112; Gaz. vol. 175; p. 362.
Shawmut Machinery Company. (See Buck, Vertrude P., assignor.)
Shawver, Harvey E., Lewistown, Ill. Pressure-regulator. No. 1,042,980; Oct. 29; Gaz. vol. 183; p. 1250.
Shawver, Thomas J., Princess Anne, Md. Shoe-lace fastener. No. 1,049,158; Dec. 31; Gaz. vol. 185; p. 1297.
Shay, Herman C., Hamilton City, Cal. Cultivator and beet-digger. No. 1,041,684; Oct. 15; Gaz. vol. 183; p. 742.
Shea, David E., assignor to D. S. Tinsman, Williamsport, Pa. Electric cigar-lighter. No. 1,029,723; June 18; Sp. p. 3601; Gaz. vol. 179; p. 635.
Shea, Dennis J., Belchertown, Mass. Washing-machine. No. 1,033,832; July 30; Gaz. vol. 180; p. 1165.
Shea, John F., Tampa, Fla. Universal sheave. No. 1,016,965; Feb. 13; Sp. p. 1635; Gaz. vol. 175; p. 287.
Shea, John J., Beverly, Mass. Aseptic cup. No. 1,018,013; Feb. 20; Sp. p. 3957; Gaz. vol. 175; p. 685.
Shea, John J., Beverly, Mass. Coin-controlled vending-machine. No. 1,037,552; Sept. 3; Gaz. vol. 182; p. 127.
Sheaf, H. Elmer. (See Ross, William S., assignor.)
Sheaffer, John E., Washington, D. C., assignor to Sheaffer-Marion Company, of the District of Columbia. Fireless cooker. No. 1,014,911; Jan. 16; Sp. p. 4059; Gaz. vol. 174; p. 686.
Sheaffer-Marion Company, of the District of Columbia. (See Sheaffer, John E., assignor.)
Sheaffer, Oliver, assignor of one-half to C. D. Kirkpatrick, Manitou, Okla. Vehicle running-gear. No. 1,038,216; Sept. 10; Gaz. vol. 182; p. 380.
Sheaffer, Walter A., Fort Madison, Iowa. Fountain-pen attachment. No. 1,046,660; Dec. 10; Gaz. vol. 185; p. 340.
Sheahan, James H., Freeport, Ill. Roller-skate. No. 1,016,447; Feb. 6; Sp. p. 483; Gaz. vol. 175; p. 73.
Shealy, William J. (See Anakin and Shealy.)
Shean, Frank W., San Francisco, Cal. Street-railway transfer-ticket. No. 1,026,707; May 21; Sp. p. 3551; Gaz. vol. 178; p. 620.
Shearer, Edward J. (See Anderson and Shearer.)
Shearer, Theodore M., Oakland City, Ind. Steam-hammer. No. 1,026,002; May 14; Sp. p. 1991; Gaz. vol. 178; p. 343.
Shearman, Orlo F., and C. F. Erdmann, Otto, N. Y. Hydrocarbon-burner. No. 1,017,180; Feb. 13; Sp. p. 2113; Gaz. vol. 175; p. 362.
Sheckler, John F., Oklahoma, Okla. Machine for making brick. No. 1,017,921; Feb. 20; Sp. p. 3761; Gaz. vol. 175; p. 654.
Shedd Electric Company. (See Waite, Charles C., assignor.)
Shedd, William F. (See Meade, Henry B., assignor.)
Shedd, William J., assignor to Knickerbocker Ice Company, Chicago, Ill. Ice-track. No. 1,037,064; Aug. 27; Gaz. vol. 181; p. 1005.
Shee, Parke E., assignor to H. B. Lutz, Lancaster, Pa. Ruler. No. 1,027,287; May 21; Sp. p. 4865; Gaz. vol. 178; p. 819.
Sheedy, Harry J., assignor of one-half to J. R. Schlager, Scranton, Pa. Resilient vehicle-wheel. No. 1,029,323; June 11; Sp. p. 2721; Gaz. vol. 179; p. 460.
Sheedy, Patrick, *et al.* (See Neville, Harry, assignor.)
Sheedy, Patrick, Los Angeles, Cal. Drifting device for locomotives. No. 1,022,052; Apr. 2; Sp. p. 641; Gaz. vol. 177; p. 102.
Sheehan, Nicholas I., Lakewood, Ohio. Vending-machine. No. 1,038,668; Sept. 17; Gaz. vol. 182; p. 571.
Sheehan, Patrick J., and T. W. McMahon, New York, N. Y. Mail-lift. No. 1,031,383; July 2; Gaz. vol. 180; p. 187.
Sheehan, Thomas C., Jersey City, N. J., assignor, by mesne assignments, to Automatic Furnace Company, New York, N. Y. Reversible mold. No. 1,044,425; Nov. 12; Gaz. vol. 184; p. 512.
Sheehan, Walter J., and J. H. Gilbertson, Coalinga, Cal.; said Gilbertson assignor to said Sheehan. Cable and wire cutter. No. 1,018,274; Feb. 20; Sp. p. 4513; Gaz. vol. 175; p. 776.
Sheehan, William E., Albany, N. Y. Paper-making machinery. No. 1,018,450; Feb. 27; Sp. p. 4904; Gaz. vol. 175; p. 867.
Sheehy, Harry W., Akron, Ohio. Circuit-closing apparatus. No. 1,020,520; Mar. 19; Sp. p. 3202; Gaz. vol. 176; p. 574.
Sheehy, Jeremiah J., Everett, Mass. Autographic register. No. 1,030,616; June 25; Sp. p. 5732; Gaz. vol. 179; p. 987.
Sheen, Davis, Rudd, Tex. Windmill and engine coupling. No. 1,017,021; Feb. 13; Sp. p. 1751; Gaz. vol. 175; p. 306.
Sheets, Brady M., Milton, W. Va. Headlight. No. 1,031,384; July 2; Gaz. vol. 180; p. 187.
Sheetz, Asa A., Woodstock, Va., and G. A. Cottrell, Milford, Mich. Portable spraying-tower. No. 1,020,061; Mar. 12; Sp. p. 2239; Gaz. vol. 176; p. 386.
Sheetz, E. R. (See Wiggins, Richard M., assignor.)
Sheffer, John, Schenectady, N. Y. Door-closing device. No. 1,042,829; Oct. 29; Gaz. vol. 183; p. 1199.
Sheffer, John W., Berwick, Pa., assignor to American Car and Foundry Company, St. Louis, Mo. Portable electric welding-tool. No. 1,045,332; Nov. 26; Gaz. vol. 184; p. 885.
Sheffey, John A., Columbus, Ohio. Structure for forming concrete surfaces. No. 1,042,043; Oct. 22; Gaz. vol. 183; p. 903.
Sheffield Car Company. (See Stebbins, Charles B., assignor.)
Sheffield Car Company. (See Stebbins and Hovey, assignors.)
Sheffield, Edmund, Jr., Greenview, Cal. Stamp-mill. No. 1,015,910; Jan. 30; Sp. p. 6200; Gaz. vol. 174; p. 1081.
Sheffield, Wm. M. (See Dickey, Arthur V., assignor.)
Shek, Frank P., Brooklyn, N. Y. Rack. (Reissue.) No. 13,395; Apr. 2; Sp. p. 1337; Gaz. vol. 177; p. 217.
Shelburne, Arthur. (See Buettner and Shelburne.)
Shelby Steel Tube Company, The. (See Offutt, John W., assignor.)
Shelden, Frank M., Newcastle, Wyo. Seed-drill. No. 1,018,933; Feb. 27; Sp. p. 5980; Gaz. vol. 175; p. 1031.
Sheldon, Edgar H., Chicago, Ill. Ice cutting or shaving device. No. 1,013,823; Jan. 2; Sp. p. 1599; Gaz. vol. 174; p. 255.
Sheldon, Edward P., assignor, by mesne assignments, to R. Hoe and Co., New York, N. Y. Printing-machine. No. 1,028,913; June 11; Sp. p. 1835; Gaz. vol. 179; p. 319.
Sheldon, Edward P., assignor to R. Hoe and Co., New York, N. Y. Staple-forming mechanism. No. 1,047,314; Dec. 17; Gaz. vol. 185; p. 598.
Sheldon, Harry E., Pittsburgh, Pa. Treating metal sheets or plates. No. 1,016,715; Feb. 6; Sp. p. 1089; Gaz. vol. 175; p. 168.
Sheldon, Henry, Moore, Mont. Wire-bending tool. No. 1,031,738; July 9; Gaz. vol. 180; p. 351.
Sheldon, John R., Cambridge, Mass. Comforter-filling machine. No. 1,027,570; May 28; Sp. p. 5452; Gaz. vol. 178; p. 953.
Sheldon, Mason, Kinzua, Pa. Cattle-stanchion. No. 1,045,333; Nov. 26; Gaz. vol. 184; p. 885.
Shelhammer, James. (See Bressmer and Shelhammer.)
Shellenberger, John, Rome, Ga. Wire-bound box. No. 1,033,833; July 30; Gaz. vol. 180; p. 1166.
Shelton, Henry A., Northampton, England. Spring-frame for velocipedes. No. 1,016,042; Jan. 30; Sp. p. 6483; Gaz. vol. 174; p. 1126.
Shelton, James, Knoxville, assignor of one-third to J. J. Clark, Nashville, Tenn. Boiler-stud connection. No. 1,037,553; Sept. 3; Gaz. vol. 182; p. 128.
Shelton, James D., Nortonville, Ky. Automatic car-coupling. No. 1,016,788; Feb. 6; Sp. p. 1242; Gaz. vol. 175; p. 191.
Shely, Alda M. (See Shely, William A. and A. M.)
Shely, William A. and A. M., Chicago, Ill. Machine for breaking and cleaning fibrous material. No. 1,047,998; Dec. 24; Gaz. vol. 185; p. 862.
Shenk, William J. (See Stephens and Shenk.)
Shenk, William S. (See Zell and Shenk.)
Shenton, Francis J. (See Spratt and Shenton.)
Shepard, Charles H., New York, assignor to Union Typewriter Company, Ilion, N. Y. Type-writing machine. No. 1,014,335; Jan. 9; Sp. p. 2767; Gaz. vol. 174; p. 460.
Shepard, Charles H., New York, assignor to Union Typewriter Company, Ilion, N. Y. Type-writing machine. No. 1,014,336; Jan. 9; Sp. p. 2777; Gaz. vol. 174; p. 461.
Shepard, Charles H., New York, N. Y., assignor, by mesne assignments, to Union Typewriter Company, Jersey City, N. J. Type-writing machine. No. 1,033,481; July 23; Gaz. vol. 180; p. 1024.
Shepard, Charles H., Brooklyn, assignor to Wyckoff, Seamans & Benedict, Ilion, N. Y. Type-writing machine. No. 1,032,087; July 9; Gaz. vol. 180; p. 469.
Shepard, Elisha H., assignor of one-half to I. N. and A. C. Conrad, Boyne City, Mich. Rail-joint. No. 1,020,317; Mar. 12; Sp. p. 2775; Gaz. vol. 176; p. 470.
Shepard, George, Portland, Oreg. Milk-can. No. 1,022,975; Apr. 9; Sp. p. 2614; Gaz. vol. 177; p. 444.
Shepard, Josephine G., Brooklyn, N. Y. Combination strainer and egg-holder. No. 1,027,079; May 21; Sp. p. 4445; Gaz. vol. 178; p. 750.

Alphabetical list of patentees—Continued.

Shepard, Melzar, Holly, Mich. Foldable shipping-crate. No. 1,039,452; Sept. 24; Gaz. vol. 182; p. 858.
Shepard, W. H. (See Joyce, Roy E., assignor.)
Shepard, William B., Beloit, Wis. Aeroplane. No. 1,028,143; June 4; Sp. p. 138; Gaz. vol. 179; p. 21.
Shepard, William T., Le Mars, Iowa. Wheat food and preparing the same. No. 1,013,453; Jan. 2; Sp. p. 792; Gaz. vol. 174; p. 127.
Shepard, William T., Le Mars, Iowa. Milling-machine. No. 1,021,950; Apr. 2; Sp. p. 424; Gaz. vol. 177; p. 69.
Shepardson, Raymond D., Becket, Mass. Oil-can. No. 1,028,617; June 4; Sp. p. 1203; Gaz. vol. 179; p. 184.
Shephard, William A., Waukesha, Wis. Locking attachment for faucets. No. 1,040,040; Oct. 1; Gaz. vol. 183; p. 123.
Shephard, William A., Waukesha, Wis. Milk cooling and bottling apparatus. No. 1,048,597; Dec. 31; Gaz. vol. 185; p. 1103.
Shepherd, Charles H., New York, N. Y. Faucet hose connection. No. 1,036,015; Aug. 20; Gaz. vol. 181; p. 612.
Shepherd, Charles P., and E. S. Conrad, Grand Rapids, Mich. Sheet-metal work. No. 1,016,584; Feb. 6; Sp. p. 815; Gaz. vol. 175; p. 121.
Shepherd, Elbert, Pine Bluff, Ark. Power-transmission device. No. 1,034,315; July 30; Gaz. vol. 180; p. 1334.
Shepherd, Frank E. (See Nichols and Shepherd.)
Shepherd, Frank W. H. (See Bacon and Shepherd.)
Shepherd, James H., Denver, assignor of one-half to J. C. Reagan, Whitepine, Colo. Pipe-coupling. No. 1,038,669; Sept. 17; Gaz. vol. 182; p. 572.
Shepherd, John A. (See Matthies and Shepherd.)
Shepherd, John E., Chicago, Ill., assignor to Automatic Fire Protection Company, New York, N. Y. Automatic fire-protection signal system. No. 1,018,451; Feb. 27; Sp. p. 4906; Gaz. vol. 175; p. 867.
Shepherd, Sydney H., Cricklewood, England. Steam-generating system. No. 1,016,857; Feb. 6; Sp. p. 1379; Gaz. vol. 175; p. 213.
Shepherd, Sydney H., Cricklewood, England. Steam-generator. No. 1,043,634; Nov. 5; Gaz. vol. 184; p. 209.
Shepherd, Timothy, Birmingham, England. Cycle-saddle, seat, stool, and the like. No. 1,044,272; Nov. 12; Gaz. vol. 184; p. 459.
Shepherd, William M., assignor to G. T. and G. H. Sutterly, Philadelphia, Pa. Vapor-burner. No. 1,036,353; Aug. 20; Gaz. vol. 181; p. 733.
Shepler, John B. (See Scanlan, Robert M., assignor.)
Sheppard, Edward S., Poplar Bluff, Mo. Detachable panel structure for flood-gates. No. 1,045,447; Nov. 26; Gaz. vol. 184; p. 926.
Sheppy, Charles L., and J. R. Way, assignors to The Pierce Arrow Motor Car Company, Buffalo, N. Y. Dash construction for motor-vehicles. No. 1,048,900; Dec. 31; Gaz. vol. 185; p. 1209.
Sheras, Morris, Chicago, Ill. Seal-press. No. 1,013,228; Jan. 2; Sp. p. 307; Gaz. vol. 174; p. 49.
Sherbondy, William E., Cleveland, Ohio. Grease-gun. No. 1,013,454; Jan. 2; Sp. p. 794; Gaz. vol. 174; p. 127.
Sherbondy, William H., Fort Wayne, Ind. Current-regulator. No. 1,026,775; May 21; Sp. p. 3712; Gaz. vol. 178; p. 643.
Sherer, George W., Rockford, Ill. Stone-cutter's instrument. No. 1,042,981; Oct. 29; Gaz. vol. 183; p. 1251.
Sheridan, Andrew W., assignor of one-half to J. C. Travilla, St. Louis, Mo. Oil-distributing nozzle. No. 1,043,544; Nov. 5; Gaz. vol. 184; p. 179.
Sheridan, Leslie M., Anaconda, Mont. Ore-sampling device. No. 1,031,385; July 2; Gaz. vol. 180; p. 188.
Sheridan, Mathew B., York, Pa. Pipe wrench and cutter. No. 1,032,784; July 16; Gaz. vol. 180; p. 752.
Sheridan, Primrose E. (See Crocker and Sheridan.)
Sheriff, Albert, Covington, Ky. Tool-holder. No. 1,022,511; Apr. 9; Sp. p. 1593; Gaz. vol. 177; p. 285.
Sheriff, James E., Provo, Utah. Airship. No. 1,025,210; May 7; Sp. p. 221; Gaz. vol. 178; p. 37.
Sherland, Mark E., assignor of one-half to E. E. Williams, McGehee, Ark. Leak-stopper. No. 1,041,891; Oct. 22; Gaz. vol. 183; p. 853.
Sherlock, Edward D., assignor of one-half to G. W. Van Nortwick, Denver, Colo. Multiple embossing-die. No. 1,023,765; Apr. 16; Sp. p. 4213; Gaz. vol. 177; p. 740.
Sherman, Alvin G., Detroit, Mich. Hydrocarbon-burner. No. 1,024,868; Apr. 30; Sp. p. 6737; Gaz. vol. 177; p. 1185.
Sherman, Alvin G., assignor to The Detroit Vapor Stove Company, Detroit, Mich. Burner-supporter. No. 1,048,359; Dec. 24; Gaz. vol. 185; p. 983.
Sherman, Charles A., New York, N. Y. Tea-brewing apparatus. No. 1,030,752; June 25; Sp. p. 6079; Gaz. vol. 179; p. 1035.
Sherman, Clifton W. (See O'Connor, John F., assignor.)
Sherman, Clifton W., Buffalo, N. Y. Tie-plate. No. 1,039,453; Sept. 24; Gaz. vol. 182; p. 858.
Sherman, Elmore. (See Horn and Sherman.)
Sherman, Erwin C., assignor to The William B. Pollock Company, Youngstown, Ohio. Ladle-car. No. 1,021,753; Mar. 26; Sp. p. 5816; Gaz. vol. 176; p. 1042.
Sherman, Erwin C., assignor to The William B. Pollock Company, Youngstown, Ohio. Ladle-car. No. 1,026,708; May 21; Sp. p. 3554; Gaz. vol. 178; p. 620.
Sherman, Erwin C., W. W. McKelvey, and E. J. Reilly, assignors to The William B. Pollock Company, Youngstown, Ohio. Dumping-car. No. 1,014,612; Jan. 9; Sp. p. 3331; Gaz. vol. 174; p. 553.
Sherman, Fred T., and H. Goetz, Seattle, Wash. Auto-vehicle dump-box. No. 1,020,665; Mar. 19; Sp. p. 3536; Gaz. vol. 176; p. 622.
Sherman, George B., Danbury, Conn. Hat-wire connector. No. 1,040,790; Oct. 8; Gaz. vol. 183; p. 412.
Sherman, George S., Great Neck, N. Y. Lamp attachment for vehicles. No. 1,028,144; June 4; Sp. p. 144; Gaz. vol. 179; p. 21.
Sherman, Harry E. (See Sherman, Louie A. and H. E.)
Sherman, Henry A., Van Vleck, Tex. Dirt-tamping shovel. No. 1,033,074; July 16; Gaz. vol. 180; p. 849.
Sherman, Howard B., Battle Creek, Mich., and F. Perkins, Warren, Mass.; said Perkins assignor to said Sherman. Grease-cup. No. 1,025,319; May 7; Sp. p. 481; Gaz. vol. 178; p. 74.
Sherman, John C., Brookline, Mass. Musical record. No. 1,013,519; Jan. 2; Sp. p. 937; Gaz. vol. 174; p. 150.
Sherman, John C., Brookline, Mass. Cushioning device for vehicles. No. 1,027,288; May 21; Sp. p. 4866; Gaz. vol. 178; p. 819.
Sherman, John S., assignor to Detroit Vapor Stove Company, Detroit, Mich. Deflector for ovens. No. 1,046,873; Dec. 10; Gaz. vol. 185; p. 413.
Sherman, Le Roy K., Chicago, Ill. Excavating-machine. No. 1,044,090; Nov. 12; Gaz. vol. 184; p. 398.
Sherman, Lothrop C., Liberty, Tex. Wrench. No. 1,031,474; July 2; Gaz. vol. 180; p. 218.
Sherman, Louie A. and H. E., Kansas City, Mo. Cartridge-shell. No. 1,038,007; Sept. 10; Gaz. vol. 182; p. 312.
Sherman, Louis A., Detroit, Mich. Priming-fluid tank. No. 1,013,324; Jan. 2; Sp. p. 527; Gaz. vol. 174; p. 83.
Sherman, Louis A., Pembroke, Mass. Mariner's liquid compass. No. 1,024,810; Apr. 30; Sp. p. 6616; Gaz. vol. 177; p. 1164.
Sherman, Orrin M., assignor to E. B. Van Wagner Manufacturing Company, Syracuse, N. Y. Casting apparatus. No. 1,023,884; Apr. 23; Sp. p. 4515; Gaz. vol. 177; p. 809.
Sherman, Perry B., Cleveland, Ohio. Adjustable cheek-pad for guns. No. 1,032,628; July 16; Gaz. vol. 180; p. 697.
Sherman, Ralph L., *et al.* (See Kepford, David, assignor.)
Shermund, Conrad, and R. A. Mallett, Sacramento, Cal. Automobile-headlight. No. 1,026,709; May 21; Sp. p. 3555; Gaz. vol. 178; p. 620.
Sheron, James L., Marion, Ind. Tile-cutting machine. No. 1,017,922; Feb. 20; Sp. p. 3766; Gaz. vol. 175; p. 655.
Sherry, James A., Fall River, Mass. Hand-propelled wagon. No. 1,031,475; July 2; Gaz. vol. 180; p. 219.
Sherry, Robert H., *et al.* (See Kerruish, Hudson B., assignor.)
Sherwood, Arthur, Plantsville, Conn. Resilient wheel. No. 1,022,885; Apr. 9; Sp. p. 2412; Gaz. vol. 177; p. 412.
Sherwood, Charles, Friendship, N. Y. Swivel-capstan. No. 1,016,101; Jan. 30; Sp. p. 6617; Gaz. vol. 174; p. 1149.
Sherwood, Charles H., Long Hill, Conn. Folding carboy-support. No. 1,022,886; Apr. 9; Sp. p. 2415; Gaz. vol. 177; p. 412.
Sherwood, Ludlow S., Cleveland, Ohio. Joist-hanger. No. 1,046,874; Dec. 10; Gaz. vol. 185; p. 414.
Sherwood, Walker L. (See McManis and Sherwood.)
Sherwood, William I., Montclair, N. J., assignor to Cordley & Hayes. Water-cooler stand. No. 1,018,212; Feb. 20; Sp. p. 4393; Gaz. vol. 175; p. 755.
Sheuffel, Ernest C., Indianapolis, Ind. Horseshoe. No. 1,034,842; Aug. 6; Gaz. vol. 181; p. 148.
Shewry, William M., Chicago, Ill. Collar. No. 1,014,527; Jan. 9; Sp. p. 3151; Gaz. vol. 174; p. 524.
Shidler, William A., Kaw City, Okla. Wear-loop for neck-yokes. No. 1,043,259; Nov. 5; Gaz. vol. 184; p. 75.
Shield Electric Company. (See Schmid, Ernest E., assignor.)
Shields, Alfred, assignor of one-fourth to J. E. Nelson and one-fourth to R. L. McLaurin, Vicksburg, Miss. Water-motor. No. 1,046,341; Dec. 3; Gaz. vol. 185; p. 189.
Shields, Carl E., Rock Island, Ill. Bench-vise support. No. 1,019,540; Mar. 5; Sp. p. 1216; Gaz. vol. 176; p. 180.
Shields, Carl E., Rock Island, Ill. Bench-vise. No. 1,036,155; Aug. 20; Gaz. vol. 181; p. 663.
Shields, Charles H. (See Albrecht, Frederick W., assignor.)
Shields, Curtis W., New York, N. Y. Inside closure for air, steam, or water tight vessels. No. 1,0[illegible],847; Jan. 30; Sp. p. 6063; Gaz. vol. 174; p. 1058.
Shields, Edgar B. (See Shields and McGuire.)
Shields, Harry A., Grand Rapids, Mich. Machine for turning tubular fabrics. No. 1,030,336; June 25; Sp. p. 4969; Gaz. vol. 179; p. 886.
Shields, James A., Atlanta, Ga. Apparatus for treating snap-bolls. No. 1,013,690; Jan. 2; Sp. p. 1342; Gaz. vol. 174; p. 208.

Alphabetical list of patentees—Continued.

Shields, James A., Atlanta, Ga. Treating snap-bolls of cotton. No. 1,013,691; Jan. 2; Sp. p. 1344; Gaz. vol. 174; p. 209.
Shields, Marion T. and E. B., and W. L. McGuire, Osborne, Kans. Overthrow hay-retainer. No. 1,025,320; May 7; Sp. p. 483; Gaz. vol. 178; p. 75.
Shields, Nelson, Minneapolis, Minn. Hinge. No. 1,027,444; May 28; Sp. p. 5193; Gaz. vol. 178; p. 910.
Shields, Robert, South Boston, assignor to Frank Ridlon Company, Boston, Mass. Trolley retriever and catcher. No. 1,023,597; Apr. 16; Sp. p. 3921; Gaz. vol. 177; p. 689.
Shields, Sanford S., and W. E. Wine, Wilmington, N. C. Valve grinding and fitting machine. No. 1,042,614; Oct. 29; Gaz. vol. 183; p. 1125.
Shiels, Thomas F., and W. R. Bolter, Lowell, Mich. Puncture-proof inner casing for pneumatic tires. No. 1,032,955; July 16; Gaz. vol. 180; p. 807.
Shier, John V., Sr., and J. La Vergne, Sr., Charleston, S. C. Fire-alarm signaling apparatus. No. 1,043,975; Nov. 12; Gaz. vol. 184; p. 358.
Shierk, Dearell D., assignor of one-half to W. C. Farquhar, Rockford, Ill. Boiler construction. No. 1,042,044; Oct. 22; Gaz. vol. 183; p. 903.
Shigley, Cyrus C., assignor of one-half to P. McLaughlin, Grand Rapids, Mich. Phonograph. No. 1,024,034; Apr. 23; Sp. p. 4848; Gaz. vol. 177; p. 860.
Shillcutt, Alburt A., Little Rock, Ark. Aeroplane. No. 1,043,473; Nov. 5; Gaz. vol. 184; p. 153.
Shillinger, Clement V., Kingsbury, Ind. Boat-propeller. No. 1,047,999; Dec. 24; Gaz. vol. 185; p. 862.
Shiman, David, New York, N. Y. Gem-setting. No. 1,040,791; Oct. 8; Gaz. vol. 183; p. 412.
Shimer, Elmer S., assignor to S. J. Shimer & Sons, Milton, Pa. Cutter-head. No. 1,025,838; May 7; Sp. p. 1593; Gaz. vol. 178; p. 252.
Shimer, Elmer S., assignor to S. J. Shimer and Sons, Milton, Pa. Cutter-head. No. 1,025,839; May 7; Sp. p. 1594; Gaz. vol. 178; p. 253.
Shimer, Milton J., Freemansburg, Pa. Supporting device. No. 1,015,717; Jan. 23; Sp. p. 5794; Gaz. vol. 174; p. 987.
Shimer & Sons, Samuel J. (See Shimer, Elmer S., assignor.)
Shindel, Frank D., Huntingdon, Pa. Automatic train-controlling system. No. 1,037,673; Sept. 3; Gaz. vol. 182; p. 167.
Shinn, Albert J., assignor of one-half to J. G. Gray, Wilmington, Del. Motor. No. 1,030,337; June 25; Sp. p. 4971; Gaz. vol. 179; p. 886.
Shinn, Charles P., New York, N. Y. Curling-iron heater. No. 1,023,044; Apr. 9; Sp. p. 2742; Gaz. vol. 177; p. 468.
Shinn, Charles P., Brooklyn, N. Y. Stove or heating device. No. 1,046,228; Dec. 3; Gaz. vol. 185; p. 150.
Shinn, James P., Camden, N. J. Needle-controlling means for sound-boxes. No. 1,048,219; Dec. 24; Gaz. vol. 185; p. 936.
Shipley, David E., Joplin, Mo. Automobile-truck. No. 1,023,045; Apr. 9; Sp. p. 2743; Gaz. vol. 177; p. 468.
Shipman, Harold C., Cobalt, Ontario, Canada. Street and station indicator. No. 1,032,785; July 16; Gaz. vol. 180; p. 752.
Shipman, Ralph, Sunbury, Pa. Instrument for indicating speed and running time of machines. No. 1,022,801; Apr. 9; Sp. p. 2246; Gaz. vol. 177; p. 385.
Shipp, Harry, Ida Grove, Iowa. Pipe-coupling. No. 1,026,966; May 21; Sp. p. 4164; Gaz. vol. 178; p. 710.
Shipp, Samuel E., *et al.* (See Bassett, Linton T., assignor.)
Shippey, Stephen L. (See Cottrell and Shippey.)
Shire, Harry I., Jamaica, N. Y., and H. D. Bean, Penacook, N. H., assignors to Roller-Smith Company. Electrical measuring instrument. No. 1,032,786; July 16; Gaz. vol. 180; p. 753.
Shirey, George N., *et al.* (See Taylor, James C., assignor.)
Shirk, Abner, De Kalb, Ill. Wrench. No. 1,021,272; Mar. 26; Sp. p. 4818; Gaz. vol. 176; p. 878.
Shirley, John H., assignor to The A. M. Todd Co., Limited, Kalamazoo, Mich. Onion or vegetable topping machine. No. 1,026,776; May 21; Sp. p. 3714; Gaz. vol. 178; p. 643.
Shirtliff, Frederick, Hampton Hill, England. Baling-press. No. 1,043,157; Nov. 5; Gaz. vol. 184; p. 39.
Shively, James. (See Brunka, Oscar, assignor.)
Shiverick, Nathan C., Omaha, Nebr. Compressed feed-ration. No. 1,032,511; July 16; Gaz. vol. 180; p. 658.
Shlosberg, Maris, assignor of one-half to M. Cleland, Chicago, Ill. Muffler for automobiles. No. 1,023,225; Apr. 16; Sp. p. 3176; Gaz. vol. 177; p. 568.
Shnable, Emile R., Chicago, Ill. Constructing subways. No. 1,032,952; July 16; Gaz. vol. 180; p. 806.
Shnable, Emile R., assignor to Shnable & Quinn, Chicago, Ill. Excavator-bucket. No. 1,018,275; Feb. 20; Sp. p. 4514; Gaz. vol. 175; p. 776.
Shnable & Quinn. (See Shnable, Emile R., assignor.)
Shniedewend, Paul J., Jr., assignor to Paul Shniedewend and Company, Chicago, Ill. Hand-proof-press tympan. No. 1,026,055; May 14; Sp. p. 2125; Gaz. vol. 178; p. 361.
Shockey, Willis G., Chicago, Ill. Massage-machine. No. 1,013,824; Jan. 2; Sp. p. 1601; Gaz. vol. 174; p. 255.
Shockley, Harlow O., Darlington, Wis. Wheel. No. 1,022,887; Apr. 9; Sp. p. 2416; Gaz. vol. 177; p. 413.
Shoemaker, Alvin H., assignor, by mesne assignments, to Hurley Hercules Pneumatic Tire Company, Portland, Oreg. Tread for pneumatic tires. No. 1,014,912; Jan. 16; Sp. p. 4060; Gaz. vol. 174; p. 687.
Shoemaker, Alvin H., assignor of one-eighth to C. H. Yoeckel, Seattle, Wash., three-eighths to J. W. Hurley, and one-half to H. Copenhagen, Portland, Oreg. Protective covering for pneumatic tires. No. 1,014,613; Jan. 9; Sp. p. 3336; Gaz. vol. 174; p. 553.
Shoemaker, Alvin H., assignor of two-thirds to A. Cleveland and E. A. Tyroll and one-third to J. W. Hurley, Portland, Oreg. Fluid-clutch. No. 1,034,739; Aug. 6; Gaz. vol. 181; p. 112.
Shoemaker, Alvin H., assignor of two-thirds to A. Cleveland and E. A. Tyroll and one-third to J. W. Hurley, Portland, Oreg. Fluid-clutch. No. 1,034,740; Aug. 6; Gaz. vol. 181; p. 113.
Shoemaker, Charles A., Chicago, Ill. Tank-car. No. 1,026,710; May 21; Sp. p. 3556; Gaz. vol. 178; p. 621.
Shoemaker, Samuel, assignor to The Pennsylvania Steel Railway Tie Company, Philadelphia, Pa. Metallic railway-tie. No. 1,021,006; Mar. 26; Sp. p. 4253; Gaz. vol. 176; p. 790.
Shoemaker, William E., Canton, Ohio. Sectional tank. No. 1,037,554; Sept. 3; Gaz. vol. 182; p. 128.
Shoenberg, Milton H., assignor to The Presto Electrical Manufacturing Company, San Francisco, Cal. Electrically-heated syringe. No. 1,026,611; May 14; Sp. p. 3328; Gaz. vol. 178; p. 549.
Shoenberg, Milton H., assignor, by mesne assignments, to The Thermo Electric Company, San Francisco, Cal. Electrical water-heater. (Reissue.) No. 13,480; Oct. 15; Gaz. vol. 183; p. 756.
Sholar, Edward H., Chattanooga, Tenn. Sweep mechanism for baling-presses. No. 1,046,875; Dec. 10; Gaz. vol. 185; p. 414.
Sholes, Zalmon G., New York, N. Y., assignor to Zalmon G. Sholes Typewriter Company. Type-writer. No. 1,029,324; June 11; Sp. p. 2723; Gaz. vol. 179; p. 461.
Sholes, Zalmon G., and J. M. Fraaz, New York, N. Y., assignors, by mesne assignments, to Zalmon G. Sholes Typewriter Company. Type-writer. No. 1,026,056; May 14; Sp. p. 2126; Gaz. vol. 178; p. 361.
Sholl, Jacob M., Milwaukee, Wis. Crushing-machine. No. 1,038,794; Sept. 17; Gaz. vol. 182; p. 616.
Sholly, Benjamin von. (See Pettibone and Sholly.)
Shone, James, New York, N. Y. Door-bolt. No. 1,047,315; Dec. 17; Gaz. vol. 185; p. 598.
Shonk, Charles W., assignor to Charles W. Shonk Company, Maywood, Ill. Collapsible sheet-metal sign and can-holder. No. 1,017,696; Feb. 20; Sp. p. 3187; Gaz. vol. 175; p. 574.
Shonkwiler, Francis M., and J. Thomi, Burns, Kans. Cultivating device. No. 1,029,472; June 11; Sp. p. 3053; Gaz. vol. 179; p. 511.
Shonnard, Harold W., East Orange, N. J. Automatic controlling means for submarine vessels. No. 1,022,706; Apr. 9; Sp. p. 2039; Gaz. vol. 177; p. 353.
Shonnard, Harold W., East Orange, N. J. Automatic steering device for torpedoes. No. 1,030,134; June 18; Sp. p. 4480; Gaz. vol. 179; p. 775.
Shonnard, Harold W., East Orange, N. J. Fire control for torpedoes. No. 1,035,647; Aug. 13; Gaz. vol. 181; p. 452.
Shonting, Harry C. (See Kurz and Shonting.)
Shook, H. J., *et al.* (See Gordon, William F. E., assignor.)
Shook, Jacob W., Muncy, Pa. Horseshoe. No. 1,031,476; July 2; Gaz. vol. 180; p. 219.
Shook, James W., Tuscaloosa, Ala. Disintegrating nodulizer-kiln rings. No. 1,035,754; Aug. 13; Gaz. vol. 181; p. 487.
Shook, John J. and P. J., Charleroi, Pa. Box-fastener. No. 1,021,636; Mar. 26; Sp. p. 5585; Gaz. vol. 176; p. 1004.
Shook, Peter J. (See Shook, John J. and P. J.)
Shoop, Charles G., assignor to C. Mattison Machine Works, Beloit, Wis. Pneumatic roll. No. 1,045,201; Nov. 26; Gaz. vol. 184; p. 840.
Shope, John S., and J. K. Shanaman, Annville, Pa. Funnel-holder. No. 1,045,622; Nov. 26; Gaz. vol. 184; p. 989.
Shore, Albert F., New York, N. Y. Optical testing instrument. No. 1,044,584; Nov. 19; Gaz. vol. 184; p. 598.
Shore, Frank M. (See Goodman, Ward C., assignor.)
Shore, William F., New York, N. Y. Gage. No. 1,042,721; Oct. 29; Gaz. vol. 183; p. 1162.
Short, Albert E. (See Short, Horace L., A. E., and H. O.)
Short, Horace L. (See Parsons and Short.)
Short, Horace L., A. E., and H. O., Battersea Park, London, England. Aeroplane. No. 1,015,090; Jan. 16; Sp. p. 4442; Gaz. vol. 174; p. 747.
Short, Hugh O. (See Short, Horace L., A. E., and H. O.)
Shorter, William A., Princeton, W. Va. Car-coupling. No. 1,042,288; Oct. 22; Gaz. vol. 183; p. 982.
Shortill, William J., Markdale, Ontario, Canada. Lever-escapement. No. 1,037,342; Sept. 3; Gaz. vol. 182; p. 54.

Alphabetical list of patentees—Continued.

Shotts, Theodore M., New Richmond, Ind. Carriage. No. 1,038,976; Sept. 17; Gaz. vol. 182; p. 678.
Shotts, William A., Hodges, Ala. Cotton-chopper. No. 1,046,876; Dec. 10; Gaz. vol. 185; p. 414.
Shotwell, Marcus A. K., New Paltz, N. Y. Square. No. 1,038,008; Sept. 10; Gaz. vol. 182; p. 312.
Shoults, William A., Indianapolis, Ind. Envelop moistener and sealer. No. 1,043,366; Nov. 5; Gaz. vol. 184; p. 115.
Shover, Barton R., Youngstown, Ohio. Sheet-metal insulator-pin. No. 1,026,711; May 21; Sp. p. 3559; Gaz. vol. 178; p. 621.
Shover, Barton R., Youngstown, Ohio. Gain. No. 1,043,260; Nov. 5; Gaz. vol. 184; p. 75.
Show, John D. (See Doty and Show.) (Reissue.)
Showalter, Amos T., Hagerstown, Md. Bale-tie-forming machine. No. 1,046,661; Dec. 10; Gaz. vol. 185; p. 340.
Showalter, Roy C., Altoona, Pa. Wrench. No. 1,032,305; July 9; Gaz. vol. 180; p. 544.
Showalter, Roy C., Altoona, Pa. Signal. No. 1,038,450; Sept. 10; Gaz. vol. 182; p. 463.
Shrader, B. L. (See Weiler, Nicholas, assignor.)
Shrader, Bert K., and J. R. Gilman, Louisville, Ky.; said Gilman assignor to said Shrader. Measuring device. No. 1,022,005; Apr. 2; Sp. p. 549; Gaz. vol. 177; p. 86.
Shrader, Estes P., Oakland, Cal. Pawl and ratchet. No. 1,048,104; Dec. 24; Gaz. vol. 185; p. 898.
Shrauger, Darius E., Atlantic, Iowa. Sliding-door fastener. No. 1,034,395; July 30; Gaz. vol. 180; p. 1363.
Shredded Wheat Company, The. (See Albee, Asa N., assignor.)
Shredded Wheat Company, The. (See Perky, Henry D., assignor.)
Shredded Wheat Company, The. (See Regnier, Frederick, assignor.)
Shreeve, Herbert E., Wyoming, N. J., assignor to Western Electric Company, New York, N. Y. Microphone. No. 1,026,057; May 14; Sp. p. 2128; Gaz. vol. 178; p. 362.
Shreeve, Herbert E., Milburn, N. J., assignor to Western Electric Company, New York, N. Y. Circuit-controlling key. No. 1,026,183; May 14; Sp. p. 2403; Gaz. vol. 178; p. 405.
Shreve, Ephraim G., Atlantic City, N. J. Envelop. No. 1,026,933; May 21; Sp. p. 4065; Gaz. vol. 178; p. 697.
Shreve, Harry B., assignor to L. B. Jenks, Chicago, Ill. Safety-switch. No. 1,039,600; Sept. 24; Gaz. vol. 182; p. 911.
Shriver, Albert W. (See Burns and Shriver.)
Shriver, William B. (See Burns and Shriver.)
Shropshire, Jesse C., Anice, assignor of one-half to P. C. Mays, Vista, and one-fourth to A. B. McLain, Branch, Ark. Gin-saw cleaner. No. 1,026,129; May 14; Sp. p. 2299; Gaz. vol. 178; p. 388.
Shrum, George D., assignor of two-thirds to R. Thorne, Toronto, Ontario, Canada. Automatic vending-machine. No. 1,046,502; Dec. 10; Gaz. vol. 185; p. 284.
Shrum, Peter J., Monaca, W. C. Rae, Pittsburgh, and J. W. Ripper, Glenfield, assignors to Colona Manufacturing Company, Pittsburgh, Pa. Thread-protector. No. 1,023,969; Apr. 23; Sp. p. 4718; Gaz. vol. 177; p. 837.
Shryock, Leonard D., Marietta, Ohio. Adjustable boiler-mounting. No. 1,015,592; Jan. 23; Sp. p. 5527; Gaz. vol. 174; p. 946.
Shubert, Frank J., Portland, Oreg. Telephone-repeater. No. 1,029,724; June 18; Sp. p. 3603; Gaz. vol. 179; p. 636.
Shubert, Henry C., and C. L. Evington, Richland, Mo. Growth-destroyer. No. 1,035,056; Aug. 6; Gaz. vol. 181; p. 217.
Shue, Philip H., assignor of one-half to G. M. Robinson, Denver, Colo. Pump. No. 1,036,919; Aug. 27; Gaz. vol. 181; p. 955.
Shufflin, Michael B., *et al.* (See Krutsch, Willis W., assignor.)
Shukis, Joseph P., Wilkes-Barre, Pa. Diaphragm-operating attachment for cameras. No. 1,018,635; Feb. 27; Sp. p. 5360; Gaz. vol. 175; p. 930.
Shukis, Joseph P., Wilkes-Barre, Pa. Magazine plate-holder for cameras. No. 1,033,834; July 30; Gaz. vol. 180; p. 1166.
Shuler, Wilber S., Delta, Ohio. Apple-corer. No. 1,042,489; Oct. 29; Gaz. vol. 183; p. 1081.
Shulin, Neal P., Butte, Mont. Reversible cuff. No. 1,020,318; Mar. 12; Sp. p. 2776; Gaz. vol. 176; p. 470.
Shull, Albert V., Helena, Ark. Twine-holder. No. 1,046,877; Dec. 10; Gaz. vol. 185; p. 415.
Shults, Harry H., Cherry Creek, N. Y. Assorting-table. No. 1,018,636; Feb. 27; Sp. p. 5361; Gaz. vol. 175; p. 930.
Shults, Harry H., Cherry Creek, N. Y. Mail-bag rack. No. 1,018,637; Feb. 27; Sp. p. 5364; Gaz. vol. 175; p. 931.
Shultz, Harry B., Atlanta, Ga. Abdominal supporter. No. 1,033,957; July 30; Gaz. vol. 180; p. 1210.
Shultz, Llewellyn B. (See Rawson and Shultz.)
Shumaker, Charles J., Tupelo, Miss. Tire-protector. No. 1,042,157; Oct. 22; Gaz. vol. 183; p. 940.
Shuman, Frank. (See Frazier, Robert T., Jr., assignor.)
Shuman, Frank, Philadelphia, Pa. Utilizing waste heat of distillation. No. 1,014,418; Jan. 9; Sp. p. 2954; Gaz. vol. 174; p. 490.
Shuman, Frank G., Chicago, Ill. Tape holder and moistener. No. 1,016,966; Feb. 13; Sp. p. 1637; Gaz. vol. 175; p. 287.
Shupe, Joseph J., assignor of one-half to C. E. Putman, Detroit, Mich. Dough-rounding machine. No. 1,037,343; Sept. 3; Gaz. vol. 182; p. 54.
Shupp, George. (See Peek, James A., assignor.)
Shur-On Trolley Guard Company. (See Nolan, Frank J., assignor.)
Shurtz, Andrew J., Des Moines, Iowa. Railway-rail joint. No. 1,044,273; Nov. 12; Gaz. vol. 184; p. 460.
Shuster, Elmore F., New Haven, Conn. Wire straightening and cutting-off machine. No. 1,022,888; Apr. 9; Sp. p. 2417; Gaz. vol. 177; p. 413.
Shuster, Elmore F., New Haven, Conn. Wire straightening and cutting-off machine. No. 1,030,930; July 2; Gaz. vol. 180; p. 27.
Shuster, Franklin B., deceased, New Haven, Conn.; L. F. Shuster, administratrix. Helix-coiling machine. No. 1,023,099; Apr. 9; Sp. p. 2859; Gaz. vol. 177; p. 487.
Shuster, Franklin B., deceased; L. F. Shuster, administratrix, assignor to F. B. Shuster Company, New Haven, Conn. Wire straightening and cutting-off machine. No. 1,045,098; Nov. 19; Gaz. vol. 184; p. 776.
Shuster, Luella F., administratrix. (See Shuster, Franklin B.)
Shutes, George W., Detroit, Mich. Shipping and display box. No. 1,019,850; Mar. 12; Sp. p. 1800; Gaz. vol. 176; p. 315.
Shutt, Frederick O. P., and E. C. Dukeman, Honey Brook, Pa., assignors to said Shutt. Milk-strainer. No. 1,036,354; Aug. 20; Gaz. vol. 181; p. 734.
Shutts, Samuel B., and W. McHugh, Joliet, Ill. Safety device for blast-furnaces. No. 1,013,961; Jan. 9; Sp. p. 1956; Gaz. vol. 174; p. 331.
Shwartz, John M. (See Brauner, Simon, assignor.)
Siabloff, Alexis. (See Saweljew, Michael, assignor.)
Sibbald, Charles J. (See Lyons, Robert L., assignor.)
Sibbett, David H., Ann Arbor, Mich. Pipe for smoking. No. 1,033,482; July 23; Gaz. vol. 180; p. 1024.
Siber, Barnhart F., Massillon, Ohio. Railway-tie. No. 1,048,598; Dec. 31; Gaz. vol. 185; p. 1103.
Sibilsky, Otto C., Algoma, Wis. Milking-machine. No. 1,036,355; Aug. 20; Gaz. vol. 181; p. 734.
Sibley, Edwin E., Chelsea, Mass. Tension mechanism for looms. No. 1,024,528; Apr. 30; Sp. p. 5985; Gaz. vol. 177; p. 1065.
Sibley, Samuel D. (See Keller and Sibley.)
Sibole, Percy L., Swissvale, Pa. Electric switch. No. 1,013,569; Jan. 2; Sp. p. 1034; Gaz. vol. 174; p. 166.
Sibson, Walter W. (See Allsop and Sibson.)
Sibson, Walter W., and T. Allsop, assignors to The Philadelphia Drying Machinery Company, Philadelphia, Pa. Singeing-machine. No. 1,046,878; Dec. 10; Gaz. vol. 185; p. 415.
Sicka, Louis T., Tooele, Utah. Ore feed-mixer and distributer. No. 1,047,316; Dec. 17; Gaz. vol. 185; p. 598.
Sicking, Bernard. (See Korb, Leo A., assignor.)
Sideman, Reuben, San Francisco, Cal. Fire-escape. No. 1,022,568; Apr. 9; Sp. p. 1718; Gaz. vol. 177; p. 303.
Sideman, Reuben, San Francisco, Cal. Reversible breath shield. No. 1,044,698; Nov. 19; Gaz. vol. 184; p. 638.
Sidman Company, The. (See Sidman, Edward D., assignor.)
Sidman, Edward D., Detroit, Mich., assignor to The Sidman Company, Rochester, N. Y. Dry-kiln. No. 1,028,292; June 4; Sp. p. 503; Gaz. vol. 179; p. 73.
Sidman, Edward D., Detroit, Mich., assignor to The Sidman Company, Rochester, N. Y. Curtain for dry-kilns. No. 1,028,293; June 4; Sp. p. 504; Gaz. vol. 179; p. 74.
Sidney Blumenthal & Company. (See Koch, George, assignor.)
Sidwell, Arthur, Waltham, Mass. Emergency repair-link. No. 1,047,580; Dec. 17; Gaz. vol. 185; p. 692.
Siebe Gorman and Company. (See Davis, Robert H., assignor.)
Sieben, Henry, Kansas City, Mo., assignor to Fire and Gas Appliances Co. Gas-controlling apparatus. No. 1,033,958; July 30; Gaz. vol. 180; p. 1210.
Sieben, Henry, and W. J. Stevenson, Kansas City, Mo.; said Sieben assignor to P. A. Fuchs and W. Hiecke, Jr., Milwaukee, Wis. Device for cleaning, flushing, and disinfecting sewers. No. 1,036,735; Aug. 27; Gaz. vol. 181; p. 894.
Sieben, Joseph A., Topeka, Kans. Device for finishing piston packing-rings. No. 1,044,826; Nov. 19; Gaz. vol. 184; p. 682.
Siebenhausen, Charles, Boston, Mass. Smoking-pipe shield. No. 1,027,916; May 28; Sp. p. 6224; Gaz. vol. 178; p. 1068.
Siebert, Carl T., East Pittsburgh, Pa. Extinguisher for lanterns. No. 1,022,209; Apr. 2; Sp. p. 969; Gaz. vol. 177; p. 155.
Siebert, Carl T., East Pittsburgh, Pa. Receptacle. No. 1,040,792; Oct. 8; Gaz. vol. 183; p. 412.
Siebert, Carl T., East Pittsburgh, Pa. Self-extinguishing lamp. No. 1,048,901; Dec. 31; Gaz. vol. 185; p. 1209.
Siebert, Elmer C., Belleville, Ill. Grass-catcher for lawn-mowers. No. 1,025,593; May 7; Sp. p. 1092; Gaz. vol. 178; p. 169.

Alphabetical list of patentees—Continued.

Siebert, Werner, Rheinfelden, Baden, Germany. Producing endothermic compounds from their components. No. 1,033,126; July 23; Gaz. vol. 180; p. 904.
Siede, Henry, *et al.* (See Evers, Emile E., assignor.)
Siede, Leopold, and A. Street, Melbourne, Victoria, Australia. Sheep-shearing machine. No. 1,046,871; Dec. 10; Gaz. vol. 185; p. 413.
Siedentopf, Henry, assignor to The Firm of C. Zeiss, Jena, Germany. Collective system. No. 1,016,369; Feb. 6; Sp. p. 290; Gaz. vol. 175; p. 46.
Siefken, George R., New York, N. Y. Ventilator. No. 1,026,471; May 14; Sp. p. 3047; Gaz. vol. 178; p. 503.
Siegel, Abraham O., New York, N. Y. Electric illuminated-sign apparatus. No. 1,039,828; Oct. 1; Gaz. vol. 183; p. 53.
Siegel, Benjamin, *et al.* (See Jennings, Jarvis S., Jr., assignor.)
Siegel, Ernest, and J. Ruppert, Jr., New York, N. Y. Tire. No. 1,036,016; Aug. 20; Gaz. vol. 181; p. 612.
Siegel, Joseph, Detroit, Mich. Corset. No. 1,030,338; June 25; Sp. p. 4973; Gaz. vol. 179; p. 886.
Siegel, Wellington L., Wilkes-Barre, Pa. Eraser-tool. No. 1,029,572; June 11; Sp. p. 3251; Gaz. vol. 179; p. 545.
Siegel, William, Stade, near Hamburg, Germany. Horizontal piano. No. 1,049.278; Dec. 31; Gaz. vol. 185; p. 1338.
Siegfried, Ira D., Cleveland, Ohio. Calculating-machine. No. 1,019,996; Mar. 12; Sp. p. 2111; Gaz. vol. 176; p. 364.
Siegley, Jacob, Wilkes-Barre, Pa., assignor to Stanley Rule & Level Company, New Britain, Conn. Plane. No. 1,032,956; July 16; Gaz. vol. 180; p. 807.
Siegmund, Rudolph, assignor to Allis-Chalmers Company, Milwaukee, Wis. Water-wheel bucket. No. 1,037,065; Aug. 27; Gaz. vol. 181; p. 1005.
Siegrist, Hermann, Aarau, Switzerland. Apparatus for automatically basting fried or roast meat. No. 1,038,217; Sept. 10; Gaz. vol. 182; p. 380.
Siegrist, Jacob C., Pittsburgh, Pa. Underreamer. No. 1,044,274; Nov. 12; Gaz. vol. 184; p. 460.
Siegwart, Hans, Lucerne, Switzerland. Manufacture of tubular bodies such as pipes, hollow masts, or the like. No. 1,027,571; May 28; Sp. p. 5453; Gaz. vol. 178; p. 953.
Sielaff, Max, Berlin, Germany. Vending-machine. No. 1,032,629; July 16; Gaz. vol. 180; p. 697.
Sieling, Frank I., assignor to The Standard Roller Bearing Company, Philadelphia, Pa. Gaging-machine. No. 1,041,892; Oct. 22; Gaz. vol. 183; p. 853.
Siemens, Friedrich, Berlin, Germany. Furnace. No. 1,017,181; Feb. 13; Sp. p. 2115; Gaz. vol. 175; p. 363.
Siemens & Halske, A. G. (See Carl, Rudolf, assignor.)
Siemens & Halske, A. G. (See Ey, Eduard, assignor.)
Siemens & Halske A. G. (See Grabe, Georg, assignor.)
Siemens & Halske A. G. (See Huth, Max, assignor.)
Siemens & Halske, A. G. (See Noack, Carl, assignor.)
Siemens & Halske Aktiengesellschaft. (See Deibel, Robert, assignor.)
Siemens-Schuckert Werke G. m. b. H. (See Klement, Wilhelm, assignor.)
Siemens-Schuckert Werke G. m. b. H. (See Kurda, Karl, assignor.)
Siemens-Schuckert Werke G. m. b. H. (See Meyer, Georg, assignor.)
Siemens-Schuckert Werke, G. m. b. H. (See Schenkel, Moritz, assignor.)
Siemens Schuckertwerke G. m. b. H. (See Rüdenberg and Koehler, assignors.)
Siemert-Callsen Company. (See Fixmer, Hugh J., assignor.)
Sievers, Louis P., Larchwood, Iowa. Spring-wheel. No. 1,016,298; Feb. 6; Sp. p. 136; Gaz. vol. 175; p. 21.
Sievert, Frieda. (See Sievert, Philip W., assignor.)
Sievert, Paul T., Dresden, Germany. Electromagnetic carrier for glass bodies. No. 1,035,390; Aug. 13; Gaz. vol. 181; p. 366.
Sievert, Paul T., Dresden, Germany. Manufacturing glass plates. No. 1,039,829; Oct. 1; Gaz. vol. 183; p. 53.
Sievert, Philip W., Maumee, assignor to F. Sievert, Dayton, Ohio. Mausoleum. No. 1,048,360; Dec. 24; Gaz. vol. 185; p. 983.
Sievert, Philip W., Maumee, assignor to F. Sievert, Dayton, Ohio. Burial-casket. No. 1,048,361; Dec. 24; Gaz. vol. 185; p. 984.
Siewers, Walter L., Winston Salem, N. C. Buttonless union garment. No. 1,025,840; May 7; Sp. p. 1596; Gaz. vol. 178; p. 253.
Siewnak, Karol, *et al.* (See Nalepka, Walenty, assignor.)
Siff, Nathan, New York, N. Y. Binding-clip. No. 1,027,080; May 21; Sp. p. 4446; Gaz. vol. 178; p. 750.
Siggers, Edward G. (See Wright, John C., assignor.)
Siggins, Forest E., Clarksburg, W. Va. Combination cane and umbrella. No. 1,023,686; Apr. 16; Sp. p. 4078; Gaz. vol. 177; p. 716.
Sigler, George T., Huntington, W. Va. Valve-gear. No. 1,045.085; Nov. 19; Gaz. vol. 184; p. 771.
Sigley, William H. (See Dobartz and Sigley.)
Signalphone Alarm Company. (See Salisbury, Edgar E., assignor.)
Signature Company, The. (See Crompton, Frank E., assignor.)
Signor, Alfred J., Elkhart, Ind. Means for transmitting power. No. 1,040,443; Oct. 8; Gaz. vol. 183; p. 289.
Sigourney Tool Company, The. (See Taylor, Frederick D., assignor.)
Sigurdsson, Oddur V., assignor to Oddur Manufacturing Company, New York, N. Y. Type casting and composing machine. No. 1,043,261; Nov. 5; Gaz. vol. 184; p. 76.
Sigurdsson, Oddur V., Brooklyn, assignor to Oddur Manufacturing Company, New York, N. Y. Type-casting machine. No. 1,045,202; Nov. 26; Gaz. vol. 184; p. 840.
Sikes, Rufus N., Burleson, Tex. Stalk-cutter. No. 1,014,337; Jan. 9; Sp. p. 2790; Gaz. vol. 174; p. 461.
Sikes, Rufus N., Burleson, Tex. Combined brush and currycomb. No. 1,036,736; Aug. 27; Gaz. vol. 181; p. 894.
Sikes, Simeon R., Ocilla, Ga. Fertilizer-distributer. No. 1,023,532; Apr. 16; Sp. p. 3774; Gaz. vol. 177; p. 667.
Silberman, Morris, Cleveland, Ohio. Vertical boring-mill. No. 1,034,150; July 30; Gaz. vol. 180; p. 1278.
Silberman, Tanchum, Baltimore, Md. Shirt. No. 1,037,066; Aug. 27; Gaz. vol. 181; p. 1006.
Silberrad, Oswald, Buckhurst Hill, England. Manufacture of isoprene. No. 1,022,338; Apr. 2; Sp. p. 1227; Gaz. vol. 177; p. 196.
Silberrad, Oswald, Buckhurst Hill, England. Chlorate explosive. No. 1,040,793; Oct. 8; Gaz. vol. 183; p. 412.
Silberrad, Oswald, Buckhurst Hill, England. Perchlorate explosive. No. 1,040,794; Oct. 8; Gaz. vol. 183; p. 413.
Silberstein, Bogumil. (See Orban and Silberstein.)
Silbert, Gustaf I., Chicago, Ill., assignor, by mesne assignments, to Chi-Ill Electric Company. Combination-lock for electric-lamp fixtures and the like. No. 1,034,151; July 30; Gaz. vol. 180; p. 1278.
Silen, Erick, Mayger, Oreg. Violin-piano. No. 1,045,899; Dec. 3; Gaz. vol. 185; p. 35.
Silfa, Belisario, New York, N. Y. Spark-plug. No. 1,030,135; June 18; Sp. p. 4491; Gaz. vol. 179; p. 775.
Silfberg, John W., Tacoma, Wash. Car-stake. No. 1,034,935; Aug. 6; Gaz. vol. 181; p. 179.
Silk, Albert E., *et al.* (See McKaig, Eddy T., assignor.)
Sill, Richard V., Newark, N. J., assignor of two-thirds to A. E. Pelham, New York, N. Y. Electric controller. No. 1,030,617; June 25; Sp. p. 5736; Gaz. vol. 179; p. 988.
Sill, Samuel J., assignor of one-half to H. H. Hewitt, Buffalo, N. Y. Hose-making machine. No. 1,024,604; Apr. 30; Sp. p. 6185; Gaz. vol. 177; p. 1091.
Silliman, Arthur P., and J. F. Lindberg, Hibbing, Minn. Sand-separator. No. 1,044,091; Nov. 12; Gaz. vol. 184; p. 398.
Silliman, Benjamin F., Cleveland, Ohio. Regulating apparatus for steam-generators. No. 1,015,848; Jan. 30; Sp. p. 6065; Gaz. vol. 174; p. 1058.
Sills, Joseph B., and C. N. Jaeger, Raspeburg, Md. Pen-point releaser. No. 1,044,585; Nov. 19; Gaz. vol. 184; p. 598.
Sills, William H., Chicago, Ill. Machine for making mica-board or the like. No. 1,024,529; Apr. 30; Sp. p. 5989; Gaz. vol. 177; p. 1066.
Silva, David D. (See Scott, William A., assignor.)
Silver, Eugene, Omaha, Nebr. Gasolene-engine primer. No. 1,030,931; July 2; Gaz. vol. 180; p. 27.
Silver, James W., Salt Lake City, Utah. Acetylene-gas generator. No. 1,013,520; Jan. 2; Sp. p. 938; Gaz. vol. 174; p. 150.
Silver, Jesse W., South Tacoma, assignor of one-half to C. P. Savage, Tacoma, Wash. Aeroplane. No. 1,027,572; May 28; Sp. p. 5455; Gaz. vol. 178; p. 954.
Silver Manufacturing Company, The. (See Haldeman, Charles F., assignor.)
Silver, Myron. (See Anderson and Silver.)
Silver, Samuel T., Calhoun, Ga. Nut-lock. No. 1,042,158; Oct. 22; Gaz. vol. 183; p. 940.
Silverman, Isidore. (See Putney, Herbert E., assignor.)
Silverman, Morris J., Kansas City, Mo. Stud-protector. No. 1,040,444; Oct. 8; Gaz. vol. 183; p. 289.
Silverman, Wulf, New York, N. Y. Letter-holder and envelop-opener. No. 1,014,338; Jan. 9; Sp. p. 2792; Gaz. vol. 174; p. 462.
Silverson, Nathan, New York, N. Y. Door-lock and signal. No. 1,037,674; Sept. 3; Gaz. vol. 182; p. 168.
Silverston, Anthony R., Milwaukee, Wis. Necktie-stretcher. No. 1,027,006; May 21; Sp. p. 4245; Gaz. vol. 178; p. 723.
Silvestri, Giulio, Vienna, Austria-Hungary. Flying-machine. No. 1,044,600; Nov. 19; Gaz. vol. 184; p. 604.
Sim, George, assignor to D. Cameron, Chicago, Ill. Actuating mechanism. No. 1,018,014; Feb. 20; Sp. p. 3958; Gaz. vol. 175; p. 685.
Simard, Theodule, Winooski, Vt. Body-harness and umbrella-support. No. 1,020,666; Mar. 19; Sp. p. 3538; Gaz. vol. 176; p. 623.
Sime, Thomas C., Nevada, Iowa. Seed-corn drier. No. 1,027,672; May 28; Sp. p. 5658; Gaz. vol. 178; p. 985.
Siméon, Eugène, Grenoble, Isère, France. Machine for stretching tawed and chrome-tanned hides and skins. No. 1,045,203; Nov. 26; Gaz. vol. 184; p. 840.
Simison, Newton. (See Marshall and Simison.)
Simmel, Vincent A., Washington, D. C. Chair-fastener. No. 1,049,159; Dec. 31; Gaz. vol. 185; p. 1297.

Alphabetical list of patentees—Continued.

Simmen Automatic Railway Signal Company. (See Hawley, Kent A., assignor.)
Simmerman, George H. (See Hatch, Joseph I., assignor.)
Simmons, Charles B., assignor to The E. Ingraham Co., Bristol, Conn. Lock-work for clock-movements. No. 1,037,555; Sept. 3; Gaz. vol. 182; p. 128.
Simmons, Charles B., assignor to The E. Ingraham Co., Bristol, Conn. Clock-case. No. 1,042,159; Oct. 22; Gaz. vol. 183; p. 940.
Simmons, Charles B., assignor to The E. Ingraham Co., Bristol, Conn. Alarm-clock. No. 1,046,879; Dec. 10; Gaz. vol. 185; p. 415.
Simmons, Charles H., Chicago, assignor to The C. H. S. Company, Yorkville, Ill. Valve. No. 1,020,374; Mar. 12; Sp. p. 2881; Gaz. vol. 176; p. 488.
Simmons, Finn, New York, N. Y. Folding chair. No. 1,034,653; Aug. 6; Gaz. vol. 181; p. 82.
Simmons, Harley M. (See Huether and Simmons.)
Simmons, James L. (See Moore and Simmons.)
Simmons, Jesse C., assignor of one-half to F. E. Lewellyn, Shelby, Mich. Drier for grains or seeds. No. 1,043,158; Nov. 5; Gaz. vol. 184; p. 39.
Simmons, Jesse C., and L. Berzon, Philadelphia, Pa., assignors of one-third to C. J. Krayer, Mount Holly, N. J. Machine for making coiled eyelet-lacing for leather belting. No. 1,021,431; Mar. 26; Sp. p. 5168; Gaz. vol. 176; p. 935.
Simmons, John P., San Francisco, Cal. Air-lift. No. 1,033,278; July 23; Gaz. vol. 180; p. 957.
Simmons Manufacturing Company, The. (See Gail, Charles H., assignor.)
Simmons Mfg. Co., The. (See Hunt, Ozello R., assignor.)
Simmons, Paul R., Marion, Ind. Dish-cutting machine. No. 1,044,931; Nov. 19; Gaz. vol. 184; p. 718.
Simmons, Ralph C., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for operating upon soles. No. 1,030,618; June 25; Sp. p. 5740; Gaz. vol. 179; p. 988.
Simmons, Robert F., assignor to New York Stamping Company, Brooklyn, N. Y. Line-pulley. No. 1,033,354; July 23; Gaz. vol. 180; p. 982.
Simmons, Turner W., assignor of one-sixteenth to W. C. Bowers, Bridgeport, Conn. Antiskidding device. No. 1,042,722; Oct. 29; Gaz. vol. 183; p. 1163.
Simmons, William A., Kirkwood, Mo. Trunk-tray. No. 1,038,009; Sept. 10; Gaz. vol. 182; p. 313.
Simmons, Zalmon G., *et al.*, trustees. (See McMullen, George B., assignor.)
Simmons, Zalmon G., *et al.*, trustees. (See McMullen, George W., and G. B., assignors.)
Simmons, Zalmon G., *et al.*, trustees. (See Roberts, John H., assignor.)
Simms, Claude C., Berkeley, Cal., assignor to California Likfresh Company. Fruit-drier. No. 1,025,212; May 7; Sp. p. 226; Gaz. vol. 178; p. 37.
Simms, Claude R., Pierce, Colo. Churn. No. 1,020,162; Mar. 12; Sp. p. 2463; Gaz. vol. 176; p. 419.
Simms, Frederick R., Kilburn, London, England, assignor to The Simms Magneto Company. High-tension magneto-electric apparatus. No. 1,017,474; Feb. 13; Sp. p. 2759; Gaz. vol. 175; p. 464.
Simms, Frederick R., London, England, assignor to The Simms Magneto Company, New York, N. Y. Distributer for electric ignition-gear. No. 1,036,356; Aug. 20; Gaz. vol. 181; p. 734.
Simms, Frederick R., Kilburn, London, England, assignor to Simms Magneto Company, New York, N. Y. Magneto-electric machine. No. 1,039,454; Sept. 24; Gaz. vol. 182; p. 859.
Simms, Frederick R., Willesden Lane, England, assignor to Simms Magneto Co., Inc., New York, N. Y. Starting internal-combustion engines. No. 1,048,362; Dec. 24; Gaz. vol. 185; p. 984.
Simms, Henry W. (See Fox and Simms.)
Simms Magneto Co., The. (See Kennington, William O., assignor.)
Simms Magneto Company, The. (See Simms, Frederick R., assignor.)
Simms, Thomas B., *et al.* (See Patterson, Benjamin G., assignor.)
Simon, Carl F., Stolberg, Germany. Recording apparatus for measuring gaseous fluids. No. 1,028,145; June 4; Sp. p. 146; Gaz. vol. 179; p. 22.
Simon, Desider, New York, N. Y. Adjustable collar-fastener. No. 1,044,932; Nov. 19; Gaz. vol. 184; p. 718.
Simon & Dürkheim, I. (See List and Schmidt, assignors.)
Simon, Edmund, Dresden, Germany, assignor to The Firm of L. Grässer, Zwickau, Germany. Glove-leather and preparing it. No. 1,021,380; Mar. 26; Sp. p. 5018; Gaz. vol. 176; p. 916.
Simon, Frederick R. (See Simon, Richard, W. G., and F. R.)
Simon, Henry, assignor of one-fourth to E. E. Wright, one-fourth to W. Joyce, and one-fourth to J. E. McAllister, Philadelphia, Pa. Roller-skate. No. 1,026,712; May 21; Sp. p. 3561; Gaz. vol. 178; p. 621.
Simon, Joseph A., Memphis, Tenn. Metallic packing. No. 1,020,456; Mar. 19; Sp. p. 3064; Gaz. vol. 176; p. 555.
Simon, Morecz, East Chicago, Ind. Buffer for railway-cars. No. 1,029,088; June 11; Sp. p. 2221; Gaz. vol. 179; p. 379.
Simon, Richard, W. G., and F. R., Basford, Nottingham, England. Rotary drier. No. 1,030,210; June 18; Sp. p. 4661; Gaz. vol. 179; p. 801.
Simon, Soll. (See Marois, Joseph P., assignor.)
Simon, Steve, Youngstown, Ohio. Fly-trap. No. 1,018,213; Feb. 20; Sp. p. 4395; Gaz. vol. 175; p. 755.
Simon, William G. (See Simon, Richard, W. G., and F. R.)
Simonds, Noah B., assignor of one-half to H. B. Dixon, Springfield, Ohio. Folding hammock-support. No. 1,031,295; July 2; Gaz. vol. 180; p. 157.
Simonds, Samuel W., *et al.* (See McManama, John W., assignor.)
Simons, Ernest D., assignor to Scovill Manufacturing Company, Waterbury, Conn. Screw-stud for snap-fasteners. No. 1,048,902; Dec. 31; Gaz. vol. 185; p. 1210.
Simons, Frank E., Los Angeles, Cal. Elevator-gate. No. 1,042,160; Oct. 22; Gaz. vol. 183; p. 941.
Simons, Jacob P., Herrick, S. D. Lamp-extinguisher. No. 1,040,445; Oct. 8; Gaz. vol. 183; p. 289.
Simons, John A., assignor of one-half to F. J. Westlake, Chatham, Ontario, Canada. Tubular handle. No. 1,021,075; Mar. 26; Sp. p. 4387; Gaz. vol. 176; p. 814.
Simons, Ulysses, Highland Park, Mich. Rotary engine. No. 1,045,204; Nov. 26; Gaz. vol. 184; p. 841.
Simonsen, Adolf. (See Truelsen and Simonsen.)
Simonsen, Rasmus, Hoboken, N. J. Trunk. No. 1,022,158; Apr. 2; Sp. p. 861; Gaz. vol. 177; p. 137.
Simonson, Niels, Cleveland, Ohio. Pile-driving apparatus. No. 1,046,662; Dec. 10; Gaz. vol. 185; p. 340.
Simonton, John H., Brighton, Tenn. Sliding-door fastener. No. 1,015,646; Jan. 23; Sp. p. 5645; Gaz. vol. 174; p. 964.
Simple Account Salesbook Company, The. (See Mefort, Gustave, assignor.)
Simplex Aluminum Solder Company. (See Erkens, Charles R., assignor.)
Simplex Electric Heating Company. (See Ayer, James I., assignor.)
Simplex Electric Heating Company. (See Chandler, Edwin N., assignor.)
Simplex Lithograph Company. (See Stenz, Bernard F., assignor.)
Simplex Metal Bound Box Company. (See Fleming, Douglas P., assignor.)
Simplex Metal-Bound Box Company. (See Flora, Ellsworth E., assignor.)
Simplex Motor Car Company, The. (See Gulick, Edward J., assignor.)
Simplex Player Action Company. (See Brown, Theodore P., assignor.)
Simplex Roller Bearing Company. (See Upton, Colcord, assignor.)
Simplex Spreader Manufacturing Company. (See Mott, James H., assignor.)
Simplex Time Recorder Company. (See Stowell, Desrie A., assignor.)
Simplicity Shade Adjuster Company. (See Smith, Alva B., assignor.)
Simpson, Benjamin L. (See Rees and Simpson.)
Simpson, Burwell C. H. (See Norton and Simpson.)
Simpson, Charles E., Winthrop, Mass. Athletic shoe. No. 1,021,166; Mar. 26; Sp. p. 4587; Gaz. vol. 176; p. 843.
Simpson, Clarence D. (See Watres, Lewis S., assignor.)
Simpson, Colin C., Jr., Flushing, N. Y. Machine for calking pipe-joints. No. 1,033,279; July 23; Gaz. vol. 180; p. 958.
Simpson, Earl R., Salem, Oreg. Mail-bag catching and delivering apparatus. No. 1,021,341; Mar. 26; Sp. p. 4954; Gaz. vol. 176; p. 905.
Simpson, George W., Pittsburgh, Pa. Beach-coaster. No. 1,023,601; Apr. 16; Sp. p. 3933; Gaz. vol. 177; p. 691.
Simpson, Horatio S., assignor of one-half to C. H. Shaffer, Fairbury, Nebr. Internal-combustion-engine cylinder. No. 1,035,391; Aug. 13; Gaz. vol. 181; p. 366.
Simpson, Isaac, Edgewood Park, assignor to The Westinghouse Air Brake Company, Pittsburgh, Pa. Friction draft and buffing mechanism. No. 1,036,920; Aug. 27; Gaz. vol. 181; p. 956.
Simpson, James, McKeesport, assignor to National Tube Company, Pittsburgh, Pa. Transfer mechanism for hot-beds. No. 1,015,350; Jan. 23; Sp. p. 4996; Gaz. vol. 174; p. 862.
Simpson, James, McKeesport, assignor to National Tube Company, Pittsburgh, Pa. Automatic flying shears. No. 1,037,675; Sept. 3; Gaz. vol. 182; p. 168.
Simpson, James E. (See Mills and Simpson.)
Simpson, John, Chicago, Ill. Saw-set. No. 1,017,475; Feb. 13; Sp. p. 2760; Gaz. vol. 175; p. 465.
Simpson, John T., Newark, N. J. Door and window structure. No. 1,039,830; Oct. 1; Gaz. vol. 183; p. 54.
Simpson, Joseph, Denver, Colo. Combined door and window stop and alarm. No. 1,041,685; Oct. 15; Gaz. vol. 183; p. 743.
Simpson, Joseph F. (See Murphy and Simpson.)
Simpson, Leo L., Seattle, Wash. Annunciator. No. 1,038,795; Sept. 17; Gaz. vol. 182; p. 617.
Simpson & Sons, Wm. (See Anthony, Wendell P., assignor.)

Alphabetical list of patentees—Continued.

Simpson, Walter C., Punxsutawney, Pa. Collapsible concrete-form. No. 1,028,294; June 4; Sp. p. 505; Gaz. vol. 179; p. 74.
Simpson, William D., Columbia, S. C. Cushion-tired wheel. No. 1,041,182; Oct. 15; Gaz. vol. 183; p. 576.
Simpson, William M., Chicago, Ill. Brake-shoe. No. 1,027,081; May 21; Sp. p. 4447; Gaz. vol. 178; p. 750.
Simpson, William M., assignor to Railway Materials Company, Chicago, Ill. Overhead trolley-switch and cross-over. No. 1,042,615; Oct. 29; Gaz. vol. 183; p. 1125.
Simpson, William S., London, England. Apparatus for melting and mixing metals in vacuums. No. 1,015,091; Jan. 16; Sp. p. 4444; Gaz. vol. 174; p. 748.
Simpson, William S., London, England. Manufacturing and purifying coke. No. 1,047,845; Dec. 17; Gaz. vol. 185; p. 784.
Sims, Bona, Valley Spring, Tex. Armored tread for pneumatic tires. No. 1,033,741; July 23; Gaz. vol. 180; p. 1108.
Sims, Charles C., Milwaukee, Wis. Duplex pouring vessel. No. 1,025,653; May 7; Sp. p. 1224; Gaz. vol. 178; p. 188.
Sims, Henry W., Dallas, Tex. Revolver supporting and operating apparatus. No. 1,018,015; Feb. 20; Sp. p. 3960; Gaz. vol. 175; p. 685.
Sims, Jacob, Brooklyn, N. Y. Hand-bag. No. 1,049,279; Dec. 31; Gaz. vol. 185; p. 1338.
Sims, John H., assignor of one-half to J. M. Menapace, Cimarron, N. Mex. Pump. No. 1,025,211; May 7; Sp. p. 225; Gaz. vol. 178; p. 37.
Simson, Joseph. (See Deimel, Fritz, assignor.)
Simson, Joseph. (See Pink, Leonhard, assignor.)
Sinclair, Charles M., New York, N. Y. Lock. No. 1,023,766; Apr. 16; Sp. p. 4214; Gaz. vol. 177; p. 740.
Sinclair, Charles M., Chicago, Ill. Metallic door. No. 1,025,023; Apr. 30; Sp. p. 7039; Gaz. vol. 177; p. 1237.
Sinclair, Daniel A., New York, N. Y. Garter. No. 1,019,541; Mar. 5; Sp. p. 1217; Gaz. vol. 176; p. 181.
Sinclair, George, Greenwich, Ohio. Apparatus for heating and cooling liquids. No. 1,017,816; Feb. 20; Sp. p. 3505; Gaz. vol. 175; p. 616.
Sinclair, George B. (See Severy and Sinclair.)
Sinclair, George B., Medford, Mass. Starter for internal-combustion engines. No. 1,023,279; Apr. 16; Sp. p. 3292; Gaz. vol. 177; p. 588.
Sinclair, Harry R., and C. Ekman, Worcester, Mass.; said Ekman assignor to said Sinclair. Pipe-wrench. No. 1,023,533; Apr. 16; Sp. p. 3776; Gaz. vol. 177; p. 668.
Sinclair, John J., Upper Montclair, N. J. Controlling device for electric motors. No. 1,037,344; Sept. 3; Gaz. vol. 182; p. 55.
Sinclair, John P. (See Dick and Sinclair.)
Sinclair, Moses T. (See Smith and Sinclair.)
Sinding-Larsen, Alf, assignor to Messrs. Storm, Bull & Co., Christiania, Norway. Binding and utilizing air-nitrogen. No. 1,031,477; July 2; Gaz. vol. 180; p. 219.
Sinding-Larsen, Alf, assignor of one-half to Storm, Bull & Co., Christiania, Norway. Making nitrogen compounds including nitrids and ammonia. No. 1,042,723; Oct. 29; Gaz. vol. 183; p. 1163.
Sine, Allie M. (See Sine, David A., assignor.)
Sine, Allie M. (See Sine, David A., assignor.) (Reissue.)
Sine, David A., assignor to A. M. Sine, Rochester, N. Y. Drill-holder. No. 1,018,729; Feb. 27; Sp. p. 5558; Gaz. vol. 175; p. 962.
Sine, David A., assignor of one-half to A. M. Sine, Rochester, N. Y. Drill-holder. (Reissue.) No. 13,408; Apr. 23; Sp. p. 5850; Gaz. vol. 177; p. 1017.
Sinek, William J. (See Blome and Sinek.)
Siner, John H., Pimento, Ind. Feed-bucket holder. No. 1,014,264; Jan. 9; Sp. p. 2610; Gaz. vol. 174; p. 435.
Singer, Charles E., Parral, Mexico. Filter. No. 1,017,476; Feb. 13; Sp. p. 2763; Gaz. vol. 175; p. 466.
Singer, Fritz, Offenbach-on-the-Main, assignor to Chemische Fabrik Griesheim Elektron, Frankfort-on-the-Main, Germany. Making vat dyes of the anthracene series. No. 1,044,933; Nov. 19; Gaz. vol. 184; p. 718.
Singer, Harold D., and H. V. Pratt, Hospital, Ill. Steam-trap. No. 1,032,787; July 16; Gaz. vol. 180; p. 753.
Singer, Joseph, assignor of one-half to C. Krempel, Los Angeles, Cal. Compensating lug for shotguns. No. 1,014,913; Jan. 16; Sp. p. 4061; Gaz. vol. 174; p. 687.
Singer, Lázár, New York, N. Y., assignor to Unique Art Manufacturing Co. Buckle. No. 1,048,105; Dec. 24; Gaz. vol. 185; p. 898.
Singer Manufacturing Company, The. (See Abercrombie, Charles M., assignor.)
Singer Manufacturing Company, The. (See Abercrombie, William R., assignor.)
Singer Manufacturing Company, The. (See Allen, Edward B., assignor.)
Singer Manufacturing Company, The. (See Allen and Ringe, assignors.)
Singer Manufacturing Company, The. (See Boyd, Alexander, assignor.)
Singer Manufacturing Company, The. (See Brown, Otis E., assignor.)
Singer Manufacturing Company, The. (See De Voe, Albert H., assignor.)
Singer Manufacturing Company, The. (See Diehl, Philip, assignor.)
Singer Manufacturing Company, The. (See Dosch, Oliver L., assignor.)
Singer Manufacturing Company, The. (See Douglas, John, assignor.)
Singer Manufacturing Company, The. (See Eames, George M., assignor.)
Singer Manufacturing Company, The. (See Finch, John S., assignor.)
Singer Manufacturing Company, The. (See Gatchell, George S., assignor.)
Singer Manufacturing Company, The. (See Gray, Charles F., assignor.)
Singer Manufacturing Company, The. (See Greene and Büchner, assignors.)
Singer Manufacturing Company, The. (See Grieb, Alfred, assignor.)
Singer Manufacturing Company, The. (See Hogan, James T., assignor.)
Singer Manufacturing Company, The. (See Horton, Charles M., assignor.)
Singer Manufacturing Company, The. (See Karle, John D., assignor.)
Singer Manufacturing Company, The. (See Laubscher, Alexander, assignor.)
Singer Manufacturing Company, The. (See Molyneux, George E., assignor.)
Singer Manufacturing Company, The. (See Noble, Donald, assignor.)
Singer Manufacturing Company, The. (See Noble and Finch, assignors.)
Singer Manufacturing Company, The. (See Ringe, John C., assignor.)
Singer Manufacturing Company, The. (See Rontke, Albert, assignor.)
Singer Manufacturing Company, The. (See Thomas, Carlyle W., assignor.)
Singer Manufacturing Company, The. (See Wood, Alfred R., assignor.)
Singer Manufacturing Company, The. (See Woodhead, Frank S., assignor.)
Singer, William E., Columbus, Ohio. Clothes-washing device. No. 1,048,363; Dec. 24; Gaz. vol. 185; p. 985.
Singh, Narain, Dhalleke, India. Perpetual calendar. No. 1,016,370; Feb. 6; Sp. p. 291; Gaz. vol. 175; p. 46.
Singin, Louis N., Walls, Pa. Car-coupling. No. 1,045,334; Nov. 26; Gaz. vol. 184; p. 885.
Single, Leonard, Hamilton, Ohio. Automatic stop and overload-controller. No. 1,019,851; Mar. 12; Sp. p. 1802; Gaz. vol. 176; p. 316.
Single Service Package Corporation of America. (See Beadle, George W., assignor.)
Single Service Package Corporation of America. (See Jenkins, Charles F., assignor.)
Single Service Package Corporation of America. (See Osborn, Francis C., assignor.)
Single Service Package Corporation of America. (See Starr, Alden B., assignor.)
Single Service Package Corporation of America. (See Wilson and Starr, assignors.)
Singler, Frank J., Irving, Ill. Wheel. No. 1,044,699; Nov. 19; Gaz. vol. 184; p. 638.
Singleton, George, Dover, N. J. Tension device. No. 1,024,605; Apr. 30; Sp. p. 6188; Gaz. vol. 177; p. 1092.
Singley, Royal H., Burnham, Pa. Incandescent electric lamp. No. 1,020,319; Mar. 12; Sp. p. 2778; Gaz. vol. 176; p. 470.
Singmaster, James A., Palmerton, Pa. Manufacture of producer-gas. No. 1,033,127; July 23; Gaz. vol. 180; p. 905.
Singrün, Henri A., assignor to Société des Etablissements Singrün, Épinal, France. Regulating device for reaction-turbines. No. 1,038,977; Sept. 17; Gaz. vol. 182; p. 678.
Sinkovich, Joseph, Butte, Mont. Lock. No. 1,036,156; Aug. 20; Gaz. vol. 181; p. 664.
Sinn, Charles J., Baltimore, Md. Can-seal. No. 1,039,601; Sept. 24; Gaz. vol. 182; p. 911.
Sinnett, James M., Baldwinsville, N. Y. Machine for conditioning grain. No. 1,034,523; Aug. 6; Gaz. vol. 181; p. 41.
Sinnott, John, Philadelphia, Pa. Vehicle-wheel. No. 1,032,435; July 16; Gaz. vol. 180; p. 632.
Sinnott, John W., Collinwood, Ohio. Envelop-opener. No. 1,032,865; July 16; Gaz. vol. 180; p. 779.
Sinsheimer, Sidney W., Swink, Colo. Pressure-valve. No. 1,016,967; Feb. 13; Sp. p. 1638; Gaz. vol. 175; p. 288.
Sipka, Joseph. (See Stanecky, Joseph G., assignor.)
Sipp, Grant, Paterson, N. J. Tension device. No. 1,022,512; Apr. 9; Sp. p. 1594; Gaz. vol. 177; p. 285.
Sireno Company, The. (See Gordon, John, Jr., assignor.)
Sisbower, George F., East Orange, N. J., assignor to New York Couch Bed Company, New York, N. Y. Couch-hammock. No. 1,016,102; Jan. 30; Sp. p. 6618; Gaz. vol. 174; p. 1150.
Sisbower, George F., East Orange, N. J., assignor to New York Couch Bed Company, New York, N. Y. Couch-bed. No. 1,027,007; May 21; Sp. p. 4248; Gaz. vol. 178; p. 724.

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Sisbower, George F., East Orange, N. J., assignor to New York Couch Bed Company, New York, N. Y. Couch-bed. No. 1,043,736; Nov. 5; Gaz. vol. 184; p. 242.
Sisk, Thomas C., Oakland, Cal. Railway-spike. No. 1,031,878; July 9; Gaz. vol. 180; p. 401.
Sisler, Charles C., Mineola, Tex. Oil-cloth rack. No. 1,014,528; Jan. 9; Sp. p. 3152; Gaz. vol. 174; p. 524.
Sisley, John N., Connellsville, Pa. Filter. No. 1,021,076; Mar. 26; Sp. p. 4389; Gaz. vol. 176; p. 814.
Sismondi, Camillo, assignor to Societa per Brevetti Postali E. Ferroviari Con Sede in Torino, Turin, Italy. Lead seal. No. 1,027,445; May 28; Sp. p. 5194; Gaz. vol. 178; p. 911.
Sisson, Anna M. (See Gazzolo, Samuel D., assignor.)
Sisson, Isaac H., assignor to S. H. Goldberg, Chicago, Ill. Machine for making hair-pins. No. 1,019,375; Mar. 5; Sp. p. 857; Gaz. vol. 176; p. 128.
Sisson, James G., Athol, Mass. Work-clamp. No. 1,039,831; Oct. 1; Gaz. vol. 183; p. 54.
Sisson, Strawther, Hazel, Ky. Rotary engine. No. 1,020,848; Mar. 19; Sp. p. 3923; Gaz. vol. 176; p. 848.
Sisson, Vinton E. (See Murphy and Sisson.)
Sisters of St. Dominic. (See Mahoney, Martin L., assignor.)
Sisty, Warren, Surprise, Nebr. Trace-carrier. No. 1,013,455; Jan. 2; Sp. p. 796; Gaz. vol. 174; p. 128.
Sitzenstok, Bruno, Tompkinsville, N. Y. Airship. No. 1,023,484; Apr. 16; Sp. p. 3686; Gaz. vol. 177; p. 653.
Sivel, Charles H., Weston, Newark, England. Safety apparatus for mining cages, lifts, and the like. No. 1,032,710; July 16; Gaz. vol. 180; p. 727.
Siverson, William C., Buffalo, N. Y. Apparatus for impregnating fabric with rubber. No. 1,025,321; May 7; Sp. p. 484; Gaz. vol. 178; p. 75.
Sivertson, Tannes, Tacoma, Wash. Railway-track. No. 1,017,601; Feb. 13; Sp. p. 2990; Gaz. vol. 175; p. 505.
Sixsmith, John J. (See Miller, James E., assignor.)
Sizer, Ralph J., Madison, Wis. Hinge-gage. No. 1,034,843; Aug. 6; Gaz. vol. 181; p. 149.
Sjoberg, Carl A., Providence, R. I. Pocket-knife and the like. No. 1,024,749; Apr. 30; Sp. p. 6490; Gaz. vol. 177; p. 1142.
Sjögren, Carl A. T., assignor to Aktiebolaget Svenska Vapen-Och Ammunitionsfabriken, Stockholm, Sweden. Magazine-rifle. No. 1,015,516; Jan. 23; Sp. p. 5351; Gaz. vol. 174; p. 918.
Sjögren, Carl A. T., assignor to Aktiebolaget Svenska Vapenoch Ammunitionsfabriken, Stockholm, Sweden. Firearm. No. 1,021,381; Mar. 26; Sp. p. 5020; Gaz. vol. 176; p. 917.
Sjögren, Charl, Wessington Springs, S. D. Spring-wheel. No. 1,034,524; Aug. 6; Gaz. vol. 181; p. 42.
Sjoman, Carl, Ramsay, Mich. Combined harrow and pulverizer. No. 1,028,398; June 4; Sp. p. 736; Gaz. vol. 179; p. 111.
Sjöström, John G., Jönköping, Sweden. Match-splint-parallelizing machine. No. 1,014,914; Jan. 16; Sp. p. 4063; Gaz. vol. 174; p. 687.
Sjovik, Henry, Great Falls, Mont. Identification-sign. No. 1,027,008; May 21; Sp. p. 4249; Gaz. vol. 178; p. 724.
Skaer, Henry, Tamaroa, Ill. Cotton-picker. No. 1,036,357; Aug. 20; Gaz. vol. 181; p. 735.
Skaggs, John N., Albion, Nebr. Flexible metallic finger-cot. No. 1,036,017; Aug. 20; Gaz. vol. 181; p. 613.
Skahen, Patrick D., Syracuse, N. Y. Burial-case. (Reissue.) No. 13,350; Jan. 2; Sp. p. 1701; Gaz. vol. 174; p. 269.
Skahen, Patrick D., Syracuse, N. Y. Clamp for burial-cases. No. 1,019,094; Mar. 5; Sp. p. 192; Gaz. vol. 176; p. 30.
Skahen, Patrick D., Syracuse, N. Y. Corner construction for burial-cases. No. 1,048,749; Dec. 31; Gaz. vol. 185; p. 1156.
Skates, John, Trinidad, Colo. Square. No. 1,033,742; July 23; Gaz. vol. 180; p. 1108.
Skaupy, Franz, Berlin, Germany, assignor to General Electric Company. Filament connection. No. 1,013,962; Jan. 9; Sp. p. 1958; Gaz. vol. 174; p. 332.
Skeene, Joseph M., New York, N. Y. Safety-envelop. No. 1,046,503; Dec. 10; Gaz. vol. 185; p. 284.
Skeffington, Arthur, London, England. Invalid-bed. No. 1,040,795; Oct. 8; Gaz. vol. 183; p. 413.
Skellenger, Charles F. (See Beall and Skellenger.)
Skelly, John S., Monongahela, Pa. Mine-car wheel. No. 1,015,351; Jan. 23; Sp. p. 4998; Gaz. vol. 174; p. 863.
Skelton, John H., Bayonne, N. J. Nut-lock. No. 1,030,136; June 18; Sp. p. 4494; Gaz. vol. 179; p. 776.
Skidmore, Charles, Homer, Nebr. End-gate for wagons. No. 1,020,320; Mar. 12; Sp. p. 2779; Gaz. vol. 176; p. 471.
Skidmore, Charles, Homer, Nebr. End-gate for wagons. No. 1,025,024; Apr. 30; Sp. p. 7042; Gaz. vol. 177; p. 1237.
Skidmore, Charles, Homer, assignor to F. A. Wood, Dakota City, Nebr. Lifting-jack. No. 1,042,161; Oct. 22; Gaz. vol. 183; p. 941.
Skinner, Burr R., Aberdeen, S. D. Station-indicator or advertiser. No. 1,027,082; May 21; Sp. p. 4450; Gaz. vol. 178; p. 750.
Skinner, Charles E., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Safety device for electric-heater sad-irons. No. 1,042,490; Oct. 29; Gaz. vol. 183; p. 1081.
Skinner Engine Company. (See Skinner and Williams, assignors.)
Skinner, Frank H. (See Carpenter, George T., assignor.) (Reissue.)
Skinner, George W., College Corner, Ohio. Corn-husking machine. No. 1,034,152; July 30; Gaz. vol. 180; p. 1279.
Skinner, John C., Fresno, Cal. Reinforced display-receptacle. No. 1,036,358; Aug. 20; Gaz. vol. 181; p. 735.
Skinner, Le Grand, Erie, Pa. Steam-engine valve. No. 1,033,204; July 23; Gaz. vol. 180; p. 931.
Skinner, Le Grand, and E. F. Williams, assignors to Skinner Engine Company, Erie, Pa. Steam-engine. No. 1,033,280; July 23; Gaz. vol. 180; p. 958.
Skinner, Oramel H., assignor to The Prest-O-Lite Company, Indianapolis, Ind. Acetylene-gas torch. No. 1,046,880; Dec. 10; Gaz. vol. 185; p. 416.
Skinner, Theodore H., Oneida, N. Y. Reinforced concrete for building structures. No. 1,046,118; Dec. 3; Gaz. vol. 185; p. 110.
Skinner, Theodore H., assignor to Oneida Community, Ltd., Oneida, N. Y. Reinforcement for concrete structures. No. 1,046,117; Dec. 3; Gaz. vol. 185; p. 109.
Skinner, Walter A., Moberly, and T. F. Cain, Montgomery City, Mo. Air-brake appliance. No. 1,045,448; Nov. 26; Gaz. vol. 184; p. 926.
Skipp, Herbert J., Newark, N. J. Button-machine. No. 1,029,238; June 11; Sp. p. 2535; Gaz. vol. 179; p. 430.
Skirrow, John F., East Orange, assignor, by mesne assignments, to Lamson Consolidated Store Service Company, Newark, N. J. Transfer-tube system. No. 1,045,205; Nov. 26; Gaz. vol. 184; p. 841.
Skirrow, John F., East Orange, assignor, by mesne assignments, to Lamson Consolidated Store Service Company, Newark, N. J. Transfer-tube system. No. 1,045,335; Nov. 26; Gaz. vol. 184; p. 886.
Skirrow, John F., East Orange, assignor, by mesne assignments, to Lamson Consolidated Store Service Company, Newark, N. J. Transfer-tube system. No. 1,045,336; Nov. 26; Gaz. vol. 184; p. 886.
Sklar, John, Brooklyn, N. Y. Obstetrical forceps. No. 1,033,627; July 23; Gaz. vol. 180; p. 1072.
Skonnord, B. O. (See Colt, Frank, assignor.)
Skowronsky, Antoni, Pittsburgh, Pa. Window-bead fastener. No. 1,045,206; Nov. 26; Gaz. vol. 184; p. 842.
Skvor, John M., and J. G. Irving, Cedar Rapids, Iowa. Fishing-tackle. No. 1,033,281; July 23; Gaz. vol. 180; p. 959.
Skwarczewski, Stanislau, West Lynn, Mass. Curtain-fixture. No. 1,024,913; Apr. 30; Sp. p. 6828; Gaz. vol. 177; p. 1200.
Slaback, Lawrence, Silverton, and G. G. McGlaughlin, Cincinnati, Ohio. Fence-post. No. 1,037,345; Sept. 3; Gaz. vol. 182; p. 55.
Slacinski, Frank, Pittsburgh, Pa. Curtain-pole. No. 1,032,788; July 16; Gaz. vol. 180; p. 753.
Slack, Charles E., Galesburg, Ill. Headlight for cars. No. 1,041,183; Oct. 15; Gaz. vol. 183; p. 577.
Slack, Frank L., Inglewood, Cal. Aeroplane sighting device. No. 1,028,502; June 4; Sp. p. 970; Gaz. vol. 179; p. 146.
Slack, George M., Altoona, Pa. Journal-box pedestal. No. 1,017,113; Feb. 13; Sp. p. 1971; Gaz. vol. 175; p. 339.
Sladden, Sidney C., New York, N. Y. Window-sash lock. No. 1,022,889; Apr. 9; Sp. p. 2419; Gaz. vol. 177; p. 413.
Sladden, Sidney C., New York, N. Y. Telephone-receiver holder. No. 1,040,796; Oct. 8; Gaz. vol. 183; p. 413.
Sladinska, Charles L., Fountain City, Wis. Potato-digger. No. 1,035,251; Aug. 13; Gaz. vol. 181; p. 315.
Slamka, John. (See Benyo, John, assignor.)
Slapnicka, Cyril C. (See Vondracek and Slapnicka.)
Slater, Frank. (See Herber and Slater.)
Slater, Frank, Escanaba, Mich. Spark-arrester. No. 1,026,834; May 21; Sp. p. 3837; Gaz. vol. 178; p. 663.
Slater, George W., Oakland, Cal. Driving mechanism. No. 1,017,923; Feb. 20; Sp. p. 3770; Gaz. vol. 175; p. 655.
Slater, Jerome M., *et al.* (See Vickery, Charles H., assignor.)
Slater, Lillian M., *et al.* (See Vickery, Charles H., assignor.)
Slater, William B., Washington, D. C. Apparatus for stenciling designs on surfaces. No. 1,040,797; Oct. 8; Gaz. vol. 183; p. 413.
Slatter, Thomas, *et al.* (See Aragall, Joseph, assignor.)
Slaughenhaupt, Jacob C. (See Crosby and Slaughenhaupt.)
Slaughter, Albert J., Washington, Va. Bottle-stopper. No. 1,029,473; June 11; Sp. p. 3055; Gaz. vol. 179; p. 512.
Slaughter, Benjamin G., Jr. (See Watson, James T., assignor.)
Slaughter, Samuel G., Lynchburg, Va. Emergency package and splint. No. 1,018,452; Feb. 27; Sp. p. 4913; Gaz. vol. 175; p. 868.

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Slauson, Stephen A., Cedar Rapids, Iowa. Hay-loader coupling. No. 1,033,766; July 23; Gaz. vol. 180; p. 1115.
Slaven, John T. (See Hesse and Slaven.)
Slavin, Wesley O., Downing, Mo. Garment-hanger. No. 1,047,846; Dec. 17; Gaz. vol. 185; p. 784.
Slaybaugh, James, and W. L. Schroeder, Philadelphia, Pa.; said Slaybaugh assignor to said Schroeder. Envelop-sealing device. No. 1,031,296; July 2; Gaz. vol. 180; p. 158.
Slazenger, Frank L., New York, N. Y. Strengthening device for rackets. No. 1,035,105; Aug. 6; Gaz. vol. 181; p. 235.
Sledge, Henry B., Frisco, Tex. Whiffletree. No. 1,030,932; July 2; Gaz. vol. 180; p. 28.
Slee, John, Sr., Earlestown, and J. Slee, Jr., St. Helens, England. Rotary engine. No. 1,031,592; July 2; Gaz. vol. 180; p. 257.
Sleepack, Henry F., *et al.* (See Wegner, Charles H., assignor.)
Sleeper, Annetta, Little Meadows, Pa. Moisture-regulator for egg-incubators. No. 1,043,159; Nov. 5; Gaz. vol. 184; p. 40.
Sleeper, Charles W., Lancaster, N. H. Can-making machine. No. 1,019,376; Mar. 5; Sp. p. 870; Gaz. vol. 176; p. 128.
Sleeper, Frank H., assignor of one-half to Morgan Spring Company, Worcester, Mass. Spring-coiling machine. No. 1,045,900; Dec. 3; Gaz. vol. 185; p. 36.
Sleeper, John H., and T. E. McGoffin, Weatherford, Okla. Grain-shocker. No. 1,020,521; Mar. 19; Sp. p. 3206; Gaz. vol. 176; p. 574.
Sleeper, Joseph J., Moores, Pa. Wrapper-pasting device. No. 1,033,282; July 23; Gaz. vol. 180; p. 959.
Sleeper, Joseph J., Moores, Pa., assignor to Utility Advertising Company, Camden, N. J. Advertising apparatus. No. 1,016,371; Feb. 6; Sp. p. 294; Gaz. vol. 175; p. 46.
Sleeper, Oliver S., Buffalo, N. Y. Speed-changing mechanism. No. 1,048,220; Dec. 24; Gaz. vol. 185; p. 936.
Sleffel, William J., assignor to The Kirk-Latty Manufacturing Company, Cleveland, Ohio. Adjustable handle-bars. No. 1,024,914; Apr. 30; Sp. p. 6828; Gaz. vol. 177; p. 1200.
Sleffel, William J., assignor to The Kirk-Latty Manufacturing Company, Cleveland, Ohio. Velocipede-frame. No. 1,028,399; June 4; Sp. p. 738; Gaz. vol. 179; p. 111.
Sleffel, William J., assignor to The Kirk-Latty Manufacturing Company, Cleveland, Ohio. Spring-seat for bicycles. No. 1,039,328; Sept. 24; Gaz. vol. 182; p. 816.
Sleffel, William J., assignor to The Kirk-Latty Manufacturing Company, Cleveland, Ohio. Child's sulky. No. 1,046,663; Dec. 10; Gaz. vol. 185; p. 341.
Sleight, William H., St. Louis, Mo. Calculating apparatus. No. 1,039,455; Sept. 24; Gaz. vol. 182; p. 859.
Slentz, Albertus O., assignor to The Canton Foundry and Machine Company, Canton, Ohio. Turn-table. No. 1,013,456; Jan. 2; Sp. p. 797; Gaz. vol. 174; p. 128.
Slentz, Albertus O., assignor to The Canton Foundry and Machine Company, Canton, Ohio. Combined shears and sheet-metal brake. No. 1,036,359; Aug. 20; Gaz. vol. 181; p. 735.
Sletto, Oscar K., assignor of one-third to P. Spilman and one-third to R. King, Bend, Oreg. Shock and hay loader. No. 1,035,485; Aug. 13; Gaz. vol. 181; p. 397.
Slevin, James J., New York, N. Y. Electric switch attachment for vacuum cleaning devices. No. 1,015,352; Jan. 23; Sp. p. 5000; Gaz. vol. 174; p. 863.
Slevin, James J., New York, N. Y. Vacuum cleaning device for cleaning animals. No. 1,018,136; Feb. 20; Sp. p. 4237; Gaz. vol. 175; p. 728.
Slevin, James J., New York, N. Y. Vacuum cleaning device. No. 1,044,275; Nov. 12; Gaz. vol. 184; p. 460.
Slick, Edwin E., Pittsburgh, Pa. Metal-forging apparatus. No. 1,022,006; Apr. 2; Sp. p. 550; Gaz. vol. 177; p. 86.
Slick, Edwin E., Pittsburgh, Pa. Apparatus for finishing car-wheels and similar metal articles. No. 1,029,642; June 18; Sp. p. 3403; Gaz. vol. 179; p. 606.
Sliger, Leonard, Indianapolis, Ind. Carbureter. No. 1,042,982; Oct. 29; Gaz. vol. 183; p. 1251.
Slinack, Victor H., assignor to The Pennsylvania Globe Gas Light Company, Philadelphia, Pa. Inverted incandescent gas-light. No. 1,039,675; Sept. 24; Gaz. vol. 182; p. 936.
Slingluff, Harry G., Mount Vernon, Ohio, assignor to Pittsburgh Plate Glass Company, Pittsburgh, Pa. Glass-drawing apparatus. No. 1,045,901; Dec. 3; Gaz. vol. 185; p. 36.
Slingsby, John and J. W., Los Angeles, Cal. Saw-filing device. No. 1,039,602; Sept. 24; Gaz. vol. 182; p. 911.
Slingsby, John W. (See Slingsby, John and J. W.)
Sloan, Augustus K., Jr., Brooklyn, N. Y. Universal binding-post. No. 1,020,457; Mar. 19; Sp. p. 3066; Gaz. vol. 176; p. 555.
Sloan & Company. (See Holbrook, Clement A., assignor.)
Sloan, Coral H., *et al.* (See Bresee, Wright D., assignor.)
Sloan, John A., Westville, assignor of one-half to C. H. Schmidt, Danville, Ill. Means for removing ice from trolley-wires. No. 1,021,637; Mar. 26; Sp. p. 5586; Gaz. vol. 176; p. 1004.
Sloan, Joseph A., Seattle, Wash. Game apparatus. No. 1,022,339; Apr. 2; Sp. p. 1228; Gaz. vol. 177; p. 196.
Sloan, Samuel A., Stockton, assignor to Pacific Oil Stove Company, San Francisco, Cal. Hydrocarbon-burner. No. 1,044,276; Nov. 12; Gaz. vol. 184; p. 461.
Sloane, Alida A., *et al.* (See Longdon, Alexander P., assignor.)
Sloane, George H., assignor of one-half to H. B. Waters, Boston, and H. Plimpton, Newton Center, Mass. Circuit-closer. No. 1,032,030; July 9; Gaz. vol. 180; p. 450.
Slocum, George F., *et al.* (See Mielke and Sergent, assignors.)
Slomski, August, Hogge, Kans. Listed-furrow packer. No. 1,040,041; Oct. 1; Gaz. vol. 183; p. 124.
Slonaker, Bert J., *et al.* (See Reed, Claude D., assignor.)
Slonaker, Charles A., *et al.* (See Reed, Claude D., assignor.)
Slonaker, Robert L., Wheeling, W. Va. Hat-pin protector. No. 1,034,316; July 30; Gaz. vol. 180; p. 1335.
Slonowski, Frank, Mariana, Pa. Trolley. No. 1,042,162; Oct. 22; Gaz. vol. 183; p. 941.
Slonowski, Frank, Mariana, Pa. Switch-throwing device. No. 1,042,163; Oct. 22; Gaz. vol. 183; p. 942.
Sloss, Aaron M. (See Malmstrom, Peter E., assignor.)
Sloss, Delbert H., Meade, Kans. Moistener. No. 1,032,512; July 16; Gaz. vol. 180; p. 658.
Slotkovitz, Edward H. (See Slotkovitz, Max and E. H.)
Slotkovitz, Max and E. H., Chicago, Ill. Waist. No. 1,042,045; Oct. 22; Gaz. vol. 183; p. 903.
Slover, Frank, Lindenhurst, N. Y. Clasp. No. 1,043,635; Nov. 5; Gaz. vol. 184; p. 209.
Slover, Marion F., and J. R. Harter, Canyon, Tex. Baling-press. No. 1,041,521; Oct. 15; Gaz. vol. 183; p. 690.
Slowe, Preston C., Philadelphia, Pa. Emergency-brake for elevators. No. 1,021,114; Mar. 26; Sp. p. 4462; Gaz. vol. 176; p. 825.
Slusser, James F., Jackson, Idaho. Stopper-extractor. No. 1,014,529; Jan. 9; Sp. p. 3154; Gaz. vol. 174; p. 525.
Sly, George E. (See Palmer, Harry B., assignor.)
Smack, Cyril A., Long Branch, N. J. Life-ring. No. 1,043,367; Nov. 5; Gaz. vol. 184; p. 116.
Smail, David, Kansas City, Mo. Spring-hub. No. 1,044,277; Nov. 12; Gaz. vol. 184; p. 461.
Small, Chester C., Newton, Mass., assignor to United Shoe Machinery Company, Paterson, N. J., and Boston, Mass. Heel compressing and loading apparatus. No. 1,027,361; May 21; Sp. p. 5010; Gaz. vol. 178; p. 845.
Small, Chester C., Newton, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Nail-assorting mechanism. No. 1,028,972; June 11; Sp. p. 1960; Gaz. vol. 179; p. 338.
Small, Edward A., Franksville, Wis. Combined carrier and display-rack for wall-paper samples. No. 1,035,648; Aug. 13; Gaz. vol. 181; p. 452.
Small, George E. (See Harms and Small.)
Small, Henry, assignor to J. F. Moran, Hartford, Conn. Tobacco-lath. No. 1,044,586; Nov. 19; Gaz. vol. 184; p. 598.
Small, Howard, *et al.* (See Stafford Earl C., assignor.)
Small, James W., Rochester, N. Y. Machine for vending and registering tickets. No. 1,022,159; Apr. 2; Sp. p. 863; Gaz. vol. 177; p. 137.
Small, James W., Rochester, N. Y. Stamp-affixer. No. 1,047,317; Dec. 17; Gaz. vol. 185; p. 599.
Small, James W., Chicago, Ill. Machine for delivering stamps, labels, tickets, and the like. No. 1,043,737; Nov. 5; Gaz. vol. 184; p. 242.
Small, Lewis J. (See Bailey, Clark, assignor.)
Small, Ralph D., and O. Linder, assignors, by mesne assignments, to Vohr Ozone Electric Company, Chicago, Ill. Ozonizer. No. 1,044,700; Nov. 19; Gaz. vol. 184; p. 638.
Smallbone, Harry E., Wilmette, assignor to Smallbone Manufacturing Company, Chicago, Ill. Sharpener. No. 1,041,360; Oct. 15; Gaz. vol. 183; p. 636.
Smallbone Manufacturing Company. (See Smallbone, Harry E., assignor.)
Smalley Manufacturing Co. (See Frick, Orlando C., assignor.)
Smart, C. S. (See Hartness, William A., assignor.)
Smart, Leonard W., Chicago, Ill. Sash-cord fastener. No. 1,018,214; Feb. 20; Sp. p. 4395; Gaz. vol. 175; p. 755.
Smart, Valentine I. (See Spicer and Smart.)
Smart, Walter J., New York, N. Y. Atomizing apparatus. No. 1,021,951; Apr. 2; Sp. p. 428; Gaz. vol. 177; p. 69.
Smead, George W., assignor to The Berger Manufacturing Company, Canton, Ohio. Sheet-cooling machine. No. 1,039,202; Sept. 24; Gaz. vol. 182; p. 770.
Smeja, Stephen, assignor of one-third to J. M. Nowicki, Chicago, Ill. Attachment for sewing-machines. No. 1,027,009; May 21; Sp. p. 4250; Gaz. vol. 178; p. 724.
Smiar, Nicholas, Braddock, Pa. Rail-joint. No. 1,037,801; Sept. 3; Gaz. vol. 182; p. 208.
Smiddy, Jerome J. (See Hustace and Smiddy.)
Smiddy, Jerome J., Honolulu, Hawaii. Tooth-brush. No. 1,033,743; July 23; Gaz. vol. 180; p. 1108.
Smiley, Alfred M., Franklin, Pa. Stereopticon. No. 1,037,346; Sept. 3; Gaz. vol. 182; p. 55.

Alphabetical list of patentees—Continued.

Smiley, George H., assignor to Elliott-Fisher Company, Harrisburg, Pa. Alarm for type-writers. No. 1,038,218; Sept. 10; Gaz. vol. 182; p. 380.
Smiley, John J., assignor to The Philip Carey Manufacturing Company, Lockland, Ohio. Ready-made roofing. No. 1,018,524; Feb. 27; Sp. p. 5122; Gaz. vol. 175; p. 893.
Smiley, Lewis R., Braddyville, Iowa. Cartridge-blank receiver. No. 1,027,509; May 28; Sp. p. 5317; Gaz. vol. 178; p. 932.
Smith, A. V., *et al.* (See Smith, Harold T., assignor.)
Smith, Abner J., Biloxi, Miss. Eyeglass-holder. No. 1,016,103; Jan. 30; Sp. p. 6619; Gaz. vol. 174; p. 1150.
Smith, Abraham L., assignor to Scoop Folding Box Company, New York, N. Y. Lock scoop-box. No. 1,037,347; Sept. 3; Gaz. vol. 182; p. 56.
Smith, Adolphus A. (See McGhee, Nicholas B., assignor.)
Smith, Albert A., assignor of one-half to G. W. Hoar, Fall River, Mass. Distributing-joint for plastic coatings. No. 1,033,283; July 23; Gaz. vol. 180; p. 959.
Smith, Albert C., Albion, Ill. Side-board and wagon-body clamp. No. 1,014,339; Jan. 9; Sp. p. 2793; Gaz. vol. 174; p. 462.
Smith, Albert D., assignor of one-half to N. L. Minster, Ogden, Utah. Horseshoer's foot-vise. No. 1,018,380; Feb. 20; Sp. p. 4736; Gaz. vol. 175; p. 811.
Smith, Albert H., Birmingham, England. Feed mechanism for automatic lathes. No. 1,019,542; Mar. 5; Sp. p. 1219; Gaz. vol. 176; p. 181.
Smith, Albert H., Topton, Pa. Pneumatic wheel. No. 1,034,317; July 30; Gaz. vol. 180; p. 1335.
Smith, Albert W. (See Smith, Sterling W. and A. W.)
Smith, Alexander J., Stamford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Stenciling-machine. No. 1,044,426; Nov. 12; Gaz. vol. 184; p. 512.
Smith, Alfred C., Mullen, Nebr. Lancet. No. 1,037,802; Sept. 3; Gaz. vol. 182; p. 208.
Smith, Alice E., Elyria, Ohio. Automobile top-slide. No. 1,048,106; Dec. 24; Gaz. vol. 185; p. 898.
Smith, Alva B., assignor to Simplicity Shade Adjuster Company, Memphis, Tenn. Shade-support. No. 1,040,798; Oct. 8; Gaz. vol. 183; p. 414.
Smith, Andrew, San Mateo, assignor to Smith Metal Perforating Company, San Mateo county, Cal. Making well-casing. No. 1,027,917; May 28; Sp. p. 6225; Gaz. vol. 178; p. 1069.
Smith, Andrew, San Mateo, assignor to Smith Metal Perforating Company, San Mateo county, Cal. Well-casing. No. 1,028,065; May 28; Sp. p. 6522; Gaz. vol. 178; p. 1115.
Smith, Andrew, San Mateo, assignor to Smith Metal Perforating Company, San Mateo county, Cal. Making well-casing. No. 1,028,066; May 28; Sp. p. 6526; Gaz. vol. 178; p. 1116.
Smith, Anna J., Wooster, Ohio, assignor to The Republic Metalware Company, Buffalo, N. Y. Handle for utensil-covers. No. 1,047,318; Dec. 17; Gaz. vol. 185; p. 599.
Smith, Anthony P., Brooklyn, N. Y. Adjustable fly-screen and shade. No. 1,042,491; Oct. 29; Gaz. vol. 183; p. 1081.
Smith, Arthur A., Cedar Vale, Kans. Coffee-pot. No. 1,018,684; Feb. 27; Sp. p. 5462; Gaz. vol. 175; p. 947.
Smith, Arthur K., and E. A. Kumming, St. Louis, Mo., assignors to Cutler Mail Chute Company, Rochester, N. Y. Mail-chute. No. 1,037,348; Sept. 3; Gaz. vol. 182; p. 56.
Smith, Arthur P., Springfield, Mass. Hand-stamp. No. 1,038,219; Sept. 10; Gaz. vol. 182; p. 381.
Smith, Arthur W., New York, assignor to Union Typewriter Company, Ilion, N. Y. Type-writing machine. No. 1,014,340; Jan. 9; Sp. p. 2794; Gaz. vol. 174; p. 462.
Smith, Arthur W., New York, assignor to Union Typewriter Company, Ilion, N. Y. Type-writing machine. No. 1,016,968; Feb. 13; Sp. p. 1640; Gaz. vol. 175; p. 288.
Smith, Arthur W., New York, N. Y., assignor, by mesne assignments, to Union Typewriter Company, Jersey City, N. J. Type-writing machine. No. 1,040,042; Oct. 1; Gaz. vol. 183; p. 124.
Smith, Arthur W., New York, N. Y., assignor to Union Typewriter Company, Jersey City, N. J. Type-writing machine. No. 1,043,160; Nov. 5; Gaz. vol. 184; p. 40.
Smith, Arthur W., New York, N. Y., assignor to Union Typewriter Company, Jersey City, N. J. Type-writing machine. No. 1,043,738; Nov. 5; Gaz. vol. 184; p. 243.
Smith, Arthur W., New York, assignor to Yost Writing Machine Company, Ilion, N. Y. Type-writing machine. No. 1,015,849; Jan. 30; Sp. p. 6070; Gaz. vol. 174; p. 1058.
Smith, Arthur W., New York, assignor to Yost Writing Machine Company, Ilion, N. Y. Combined type-writing and computing machine. No. 1,036,921; Aug. 27; Gaz. vol. 181; p. 956.
Smith, Aurelius, Indianapolis, Ind. Artificially-strengthened paper. No. 1,014,341; Jan. 9; Sp. p. 2799; Gaz. vol. 174; p. 463.
Smith, Benjamin S., Manly, near Sydney, New South Wales, Australia. Apparatus for the wet dressing of sulfid ores. No. 1,014,977; Jan. 16; Sp. p. 4218; Gaz. vol. 174; p. 710.
Smith, Bessie H., Chicago, assignor to G. A. Foster, Evanston, Ill. Powder-box. No. 1,028,618; June 4; Sp. p. 1204; Gaz. vol. 179; p. 184.
Smith, Birt Z. (See Blenkner and Smith.)
Smith-Bivert Company. (See Bivert, Eugene, assignor.)
Smith, Bronson H. (See Francis and Smith.)
Smith, Burdsey W., Oroville, Cal. Automatic locking device. No. 1,037,803; Sept. 3; Gaz. vol. 182; p. 208.
Smith, Burgess W., assignor to J. R. Hill, Washington, D. C. Transfer-press. No. 1,025,165; May 7; Sp. p. 118; Gaz. vol. 178; p. 21.
Smith Cannery Machines Company. (See Smith, Edmund A., assignor.)
Smith, Cecil B., Cleveland, Ohio. Drier. No. 1,046,664; Dec. 10; Gaz. vol. 185; p. 341.
Smith, Charles A., *et al.* (See Cole, Milton E., assignor.)
Smith, Charles A., Lenox, Mo. Apple coring and sectioning device. No. 1,034,037; July 30; Gaz. vol. 180; p. 1240.
Smith, Charles A., Denton, Tex. Blotting-pad. No. 1,043,545; Nov. 5; Gaz. vol. 184; p. 179.
Smith, Charles D., assignor of one-fourth to K. Lawson and one-fourth to A. M. Douglas, Birmingham, Ala. Railroad tie or sleeper. No. 1,032,567; July 16; Gaz. vol. 180; p. 676.
Smith, Charles E., Oak Lawn, R. I. Clutch mechanism. No. 1,013,457; Jan. 2; Sp. p. 799; Gaz. vol. 174; p. 128.
Smith, Charles E., Oak Lawn, R. I. Package-roll of metallic leaf. No. 1,031,386; July 2; Gaz. vol. 180; p. 188.
Smith, Charles E., New York, assignor to Union Typewriter Company, Ilion, N. Y. Type-writing machine. No. 1,017,022; Feb. 13; Sp. p. 1754; Gaz. vol. 175; p. 306.
Smith, Charles E., New York, N. Y., assignor, by mesne assignments, to Union Typewriter Company, Jersey City, N. J. Type-writing machine. No. 1,021,382; Mar. 26; Sp. p. 5022; Gaz. vol. 176; p. 917.
Smith, Charles E., New York, N. Y., assignor to Union Typewriter Company, Jersey City, N. J. Type-writing machine. No. 1,043,262; Nov. 5; Gaz. vol. 184; p. 76.
Smith, Charles E., New York, N. Y., assignor to Union Typewriter Company, Jersey City, N. J. Type-writing machine. No. 1,043,368; Nov. 5; Gaz. vol. 184; p. 116.
Smith, Charles F. (See Benhoff, Adam, assignor.)
Smith, Charles F., Bridgeport, Conn. Band-brake. No. 1,036,360; Aug. 20; Gaz. vol. 181; p. 736.
Smith, Charles F., Bridgeport, Conn., assignor to Anita Safety Match Company. Packaging-machine. No. 1,038,010; Sept. 10; Gaz. vol. 182; p. 313.
Smith, Charles F., Bridgeport, Conn., assignor to Anita Safety Match Company, New York, N. Y. Packaging-machine. No. 1,049,003; Dec. 31; Gaz. vol. 185; p. 1245.
Smith, Charles F., Bridgeport, Conn., assignor to Howland Bag and Paper Company, Dexter, N. Y. Making paper bags. No. 1,041,361; Oct. 15; Gaz. vol. 183; p. 637.
Smith, Charles F. and C. D., Hamilton, Tex. Cotton-chopping attachment for cultivators. No. 1,034,038; July 30; Gaz. vol. 180; p. 1240.
Smith, Charles H. (See Leaver and Smith.)
Smith, Charles H., Minneapolis, Minn. Heating and ventilating system. No. 1,024,035; Apr. 23; Sp. p. 4857; Gaz. vol. 177; p. 861.
Smith, Charles H., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Spool-head. No. 1,014,780; Jan. 16; Sp. p. 3764; Gaz. vol. 174; p. 640.
Smith, Charles S., Providence, R. I. Narrow fabric for suspender members. No. 1,013,692; Jan. 2; Sp. p. 1346; Gaz. vol. 174; p. 209.
Smith, Charles S., Milwaukee, Wis. Clutch. No. 1,047,713; Dec. 17; Gaz. vol. 185; p. 739.
Smith, Charles S., Providence, assignor to Chernack Manufacturing Company, Pawtucket, R. I. Tubular fabric. No. 1,016,527; Feb. 6; Sp. p. 683; Gaz. vol. 175; p. 102.
Smith, Charles W., Annapolis, Ill. Valve-lift spacer. No. 1,026,472; May 14; Sp. p. 3050; Gaz. vol. 178; p. 503.
Smith, Charles W., Berlin, Wis. Machine for picking pin-feathers from fowls. No. 1,037,067; Aug. 27; Gaz. vol. 181; p. 1006.
Smith, Charles W., Cincinnati, Ohio, assignor to Thomas Cusack Company, Jersey City, N. J. Sign. No. 1,030,339; June 25; Sp. p. 4974; Gaz. vol. 179; p. 887.
Smith, Charley E., Sherman, Tex. Trolley-wheel. No. 1,042,492; Oct. 29; Gaz. vol. 183; p. 1082.
Smith, Chauncey, Atlanta, Ga. Letter-filing device. No. 1,016,789; Feb. 6; Sp. p. 1244; Gaz. vol. 175; p. 192.
Smith, Chester G. (See Shafer and Smith.)
Smith, Chester J., Jamestown, and P. Kleeberg, assignors to National Calculator Company, New York, N. Y. Calculator. No. 1,017,182; Feb. 13; Sp. p. 2118; Gaz. vol. 175; p. 363.
Smith, Chester L., *et al.* (See Smith, George H., assignor.)
Smith, Chris H. (See Weir and Smith.)
Smith, Cicero G., Palisades, Colo. Spring vehicle-wheel. No. 1,047,319; Dec. 17; Gaz. vol. 185; p. 600.

Alphabetical list of patentees—Continued.

Smith, Clarence G., Cleveland, Ohio, assignor to H. J. Haber, Pittsburgh, Pa. Heat-producing compound. No. 1,019,377; Mar. 5; Sp. p. 876; Gaz. vol. 176; p. 129.
Smith, Clarence Z., Atlanta, Ga. Pin-remover. No. 1,019,195; Mar. 5; Sp. p. 418; Gaz. vol. 176; p. 66.
Smith, Clark L., Spokane, Wash. Burial-casket. No. 1,021,638; Mar. 26; Sp. p. 5590; Gaz. vol. 176; p. 1005.
Smith, Claude P., Oak Park, Ill. Electric-light switch. No. 1,018,934; Feb. 27; Sp. p. 5982; Gaz. vol. 175; p. 1031.
Smith, Clement, Topeka, Kans. Carbureter. No. 1,020,931; Mar. 19; Sp. p. 4080; Gaz. vol. 176; p. 713.
Smith, Clinton L., and W. O. Lee, Cleveland, Ohio. Collapsible trunk. No. 1,043,474; Nov. 5; Gaz. vol. 184; p. 154.
Smith, Clyde D. (See Smith, Charles F. and C. D.)
Smith, Cullen R., Perris, Cal. Stalk-puller. No. 1,038,978; Sept. 17; Gaz. vol. 182; p. 679.
Smith, Cyril A., assignor to S. O. Bigney, Attleboro, Mass. Elastic connecting device. No. 1,020,579; Mar. 19; Sp. p. 3350; Gaz. vol. 176; p. 585.
Smith, D. I., *et al.* (See Ragsdale, Charles R., assignor.)
Smith, D. T., *et al.* (See Smith, Harlin J., assignor.)
Smith, Dallas M. (See Rush, William M., assignor.)
Smith, Daniel C., Milford, Conn., assignor to Smith Refrigerating Company, New Orleans, La. Refrigeration. No. 1,038,220; Sept. 10; Gaz. vol. 182; p. 381.
Smith, Daniel C., Milford, Conn., assignor to Smith Refrigerating Company, New Orleans, La. Refrigerating-machine. No. 1,038,221; Sept. 10; Gaz. vol. 182; p. 381.
Smith, David C., Fort Worth, Tex. Controller attachment for levers. No. 1,016,448; Feb. 6; Sp. p. 484; Gaz. vol. 175; p. 74.
Smith, David C., Bee Branch, Ark. Harrow. No. 1,042,493; Oct. 29; Gaz. vol. 183; p. 1082.
Smith, David M., Sewickley, assignor to Diamond Forging & Manufacturing Company, Pittsburgh, Pa. Making swingletrees or draft members. No. 1,049,160; Dec. 31; Gaz. vol. 185; p. 1297.
Smith, Dearcy A., assignor to Askew Saddlery Company, Kansas City, Mo. Horse-collar. No. 1,017,477; Feb. 13; Sp. p. 2765; Gaz. vol. 175; p. 466.
Smith, E. C. (See Baldwin, Charles E., assignor.)
Smith, Earl D., Delphi, Ind. Safety can-opener. No. 1,036,157; Aug. 20; Gaz. vol. 181; p. 664.
Smith, Edgar S., Glendale, Cal. Aeroplane amusement apparatus. No. 1,034,654; Aug. 6; Gaz. vol. 181; p. 83.
Smith, Edman A., Pineville, Ky. Oil cup or boxing. No. 1,023,046; Apr. 9; Sp. p. 2745; Gaz. vol. 177; p. 469.
Smith, Edmund A., assignor to Smith Cannery Machines Company, Seattle, Wash. Fish-dressing machine. No. 1,034,525; Aug. 6; Gaz. vol. 181; p. 42.
Smith, Edward, Huntington, Ind. Garbage-incinerating furnace. No. 1,037,676; Sept. 3; Gaz. vol. 182; p. 169.
Smith, Edward B., and A. V. Marston, East Bridgewater, Mass. Cooking utensil. No. 1,014,342; Jan. 9; Sp. p. 2801; Gaz. vol. 174; p. 463.
Smith, Edward C., and E. L. Marshall, Fremont, assignors to National Carbon Company, Cleveland, Ohio. Galvanic battery. No. 1,017,064; Feb. 13; Sp. p. 1853; Gaz. vol. 175; p. 321.
Smith, Edward F. (See Nelson and Smith.)
Smith, Edward F., assignor to The Smith Electric Tool Co., Cincinnati, Ohio. Tool-holding means. No. 1,018,525; Feb. 27; Sp. p. 5123; Gaz. vol. 175; p. 893.
Smith, Edward F., assignor to The Smith Electric Tool Co., Cincinnati, Ohio. Portable power-driven hand-tool. No. 1,024,151; Apr. 23; Sp. p. 5128; Gaz. vol. 177; p. 901.
Smith, Edward F., assignor to The Smith Electric Tool Co., Cincinnati, Ohio. Means to control magnetic circulation in electric-current-producing devices. No. 1,044,827; Nov. 19; Gaz. vol. 184; p. 682.
Smith, Edward J. (See Hall, Charles T., assignor.)
Smith, Edward M., Fall River, Mass. Fuel-injector. No. 1,018,276; Feb. 20; Sp. p. 4517; Gaz. vol. 175; p. 776.
Smith, Edward P., Pittston, Pa. Measuring and dispensing device. No. 1,014,343; Jan. 9; Sp. p. 2802; Gaz. vol. 174; p. 463.
Smith, Edward R. and W. E., and J. J. Weier, Birmingham, Mich. Frame suspension for motor-vehicles. No. 1,039,329; Sept. 24; Gaz. vol. 182; p. 816.
Smith, Edward W., Philadelphia, Pa. Hydrometer for storage batteries. No. 1,025,543; May 7; Sp. p. 983; Gaz. vol. 178; p. 152.
Smith, Edwin, Viau Ville, Montreal, Quebec, Canada. Riveting-machine. No. 1,027,289; May 21; Sp. p. 4872; Gaz. vol. 178; p. 820.
Smith, Edwin B., Fremont, Ohio. Apparatus for controlling the condition of closed receptacles. No. 1,013,963; Jan. 9; Sp. p. 1959; Gaz. vol. 174; p. 332.
Smith, Edwin C., Seekonk, Mass. Shifting device. No. 1,036,737; Aug. 27; Gaz. vol. 181; p. 895.
Smith, Edwin L., Milwaukee, Wis., and N. Hofstad, Chicago, Ill., assignors to Johnson Service Company, Milwaukee, Wis. Valve. No. 1,045,902; Dec. 3; Gaz. vol. 185; p. 36.
Smith, Edwin M., Martin, Mich. Athletic device. No. 1,035,252; Aug. 13; Gaz. vol. 181; p. 315.
Smith, Edwin R., Paris, Tex. Fountain-pen. No. 1,019,196; Mar. 5; Sp. p. 420; Gaz. vol. 176; p. 66.
Smith, Edwin R., Paris, Tex. Drafting-pen. No. 1,022,111; Apr. 2; Sp. p. 763; Gaz. vol. 177; p. 121.
Smith, Edwin R., Paris, Tex. Compression means for fountain-pens. No. 1,048,221; Dec. 24; Gaz. vol. 185; p. 937.
Smith & Egge Manufacturing Co., The. (See Wheeler, Charles A., assignor.)
Smith & Egge Mfg. Co., The. (See Egge, Frederick, assignor.)
Smith, Elbert L. (See Timmons and Smith.)
Smith Electric Tool Co., The. (See Smith, Edward F., assignor.)
Smith, Eli M., Union, Nebr. Pump. No. 1,024,229; Apr. 23; Sp. p. 5309; Gaz. vol. 177; p. 930.
Smith, Elias A. C., Baltimore, Md. Repairing converters. No. 1,044,587; Nov. 19; Gaz. vol. 184; p. 599.
Smith, Elmer J., assignor to Peter Smith Heater Company, Detroit, Mich. Heating apparatus. No. 1,016,969; Feb. 13; Sp. p. 1643; Gaz. vol. 175; p. 289.
Smith, Ephraim C., and A. Waterhouse, Pearl City, Hawaii. Apparatus for the extraction of wax. No. 1,036,738; Aug. 27; Gaz. vol. 181; p. 895.
Smith, Erick, Flagstaff, Ariz. Saw-gummer. No. 1,029,516; June 11; Sp. p. 3133; Gaz. vol. 179; p. 525.
Smith, Eugene H. H. (See Smith, Henry V., assignor.)
Smith, Eugene W., assignor of one-half to H. N. Hudson, Chicago, Ill. Core-chaplet. No. 1,027,673; May 28; Sp. p. 5658; Gaz. vol. 178; p. 986.
Smith, Fletcher, Dallas, Tex. Cultivator-hopple. No. 1,022,272; Apr. 2; Sp. p. 1089; Gaz. vol. 177; p. 174.
Smith, Floyd. (See Bissell and Smith.)
Smith, Floyd W., Englewood, Ohio. Powder-receptacle. No. 1,013,325; Jan. 2; Sp. p. 528; Gaz. vol. 174; p. 83.
Smith, Francis. (See Knight, Percy J., assignor.)
Smith, Frank, Rossville, Ga. Spring-wheel. No. 1,017,330; Feb. 13; Sp. p. 2439; Gaz. vol. 175; p. 414.
Smith, Frank, and J. T. Clabby, Troy, N. Y. Non-refillable bottle. No. 1,036,158; Aug. 20; Gaz. vol. 181; p. 664.
Smith, Frank B., Worcester, Mass. Nail-package. No. 1,046,665; Dec. 10; Gaz. vol. 185; p. 341.
Smith, Frank F., Newark, N. J. Sash-pulley. No. 1,017,114; Feb. 13; Sp. p. 1972; Gaz. vol. 175; p. 339.
Smith, Frank I., Pittsburgh, Pa., assignor to Otis Elevator Company, Jersey City, N. J. Controlling system for electric hoists. No. 1,043,036; Oct. 29; Gaz. vol. 183; p. 1271.
Smith, Frank J., San Francisco, Cal. Can-ending machine. No. 1,034,153; July 30; Gaz. vol. 180; p. 1279.
Smith, Frank J., San Francisco, Cal. Can-head-seaming machine. No. 1,034,373; July 30; Gaz. vol. 180; p. 1356.
Smith, Frank L., Dayton, Ohio. Shoe-heel. No. 1,013,623; Jan. 2; Sp. p. 1156; Gaz. vol. 174; p. 184.
Smith, Frank L., assignor to The B. F. Goodrich Company, Akron, Ohio. Deckle-strap. No. 1,022,513; Apr. 9; Sp. p. 1595; Gaz. vol. 177; p. 285.
Smith, Frank L., Chicago, Ill., and T. B. Williams, assignors to Leavitt Machine Company, Orange, Mass. Valve-seat-dressing tool. No. 1,028,295; June 4; Sp. p. 507; Gaz. vol. 179; p. 74.
Smith, Frank N., assignor to S. R. Dresser Manufacturing Company, Bradford, Pa. Saddle for attaching pipes to pipe-lines. No. 1,048,364; Dec. 24; Gaz. vol. 185; p. 985.
Smith, Frank O., Steele, N. D. Earth pushing and distributing machine. No. 1,032,031; July 9; Gaz. vol. 180; p. 450.
Smith, Frank W. (See Sprong and McCoy, assignors.)
Smith, Frank W., Redditch, England. Variable-speed gearing for motor-cycles. No. 1,032,245; July 9; Gaz. vol. 180; p. 524.
Smith, Frank W., Westfield, N. J., assignor to Sundh Electric Company, New York, N. Y. Solenoid-controller. No. 1,022,707; Apr. 9; Sp. p. 2044; Gaz. vol. 177; p. 353.
Smith, Frank W., Westfield, N. J., assignor to Sundh Electric Company, New York, N. Y. Time-switch for electric circuits. No. 1,022,708; Apr. 9; Sp. p. 2047; Gaz. vol. 177; p. 354.
Smith, Frank W., and L. Larsen, New York, N. Y. Alternating-current switch. No. 1,031,387; July 2; Gaz. vol. 180; p. 188.
Smith, Franklin H., Yonkers, assignor, by mesne assignments, to Gold Car Heating & Lighting Company, New York, N. Y. Electric heater. No. 1,040,043; Oct. 1; Gaz. vol. 183; p. 124.
Smith, Franklin P. (See Martin, Edgar D., assignor.) (Reissue.)
Smith, Franklin P. (See McClure, Edward, assignor.)
Smith, Franklin S., Philadelphia, Pa. Electrical apparatus for destroying insects. No. 1,016,449; Feb. 6; Sp. p. 485; Gaz. vol. 175; p. 74.
Smith, Franklin S., Philadelphia, Pa. Apparatus for destroying insects by means of electricity. No. 1,016,450; Feb. 6; Sp. p. 491; Gaz. vol. 175; p. 75.
Smith, Franklin S., Philadelphia, Pa. Electrical apparatus for destroying insects. No. 1,016,451; Feb. 6; Sp. p. 494; Gaz. vol. 175; p. 75.
Smith, Franklin S., Philadelphia, Pa. Electrical apparatus for destroying insects. No. 1,016,452; Feb. 6; Sp. p. 497; Gaz. vol. 175; p. 75.

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Smith, Franklin S., Philadelphia, Pa. Electrical apparatus for destroying insects. No. 1,016,716; Feb. 6; Sp. p. 1090; Gaz. vol. 175; p. 168.
Smith, Franklin S., Philadelphia, Pa. Destroying insects. No. 1,016,790; Feb. 6; Sp. p. 1245; Gaz. vol. 175; p. 192.
Smith, Fred L., Salt Lake City, Utah. Flying-machine. No. 1,043,636; Nov. 5; Gaz. vol. 184; p. 210.
Smith, Frederick C., assignor to The Waterbury Mfg. Co., Waterbury, Conn. Collapsible drinking-cup. No. 1,037,068; Aug. 27; Gaz. vol. 181; p. 1006.
Smith, Frederick H., Pittsburg, Kans. Bearing. No. 1,017,115; Feb. 13; Sp. p. 1974; Gaz. vol. 175; p. 340.
Smith, Fredrick. (See O'Day and Smith.)
Smith, Gard W., Markle, Ind. Acetylene-gas generator. No. 1,023,767; Apr. 16; Sp. p. 4216; Gaz. vol. 177; p. 740.
Smith, George. (See Johnson, James B., assignor.)
Smith, George, Richmond, Va. Machine for charging and discharging ovens. No. 1,038,503; Sept. 10; Gaz. vol. 182; p. 480.
Smith, George A., Derby, assignor to The Robert N. Bassett Company, Shelton, Conn. Wire-forming machine. No. 1,032,513; July 16; Gaz. vol. 180; p. 658.
Smith, George E., and B. F. Hudson, assignors of one-fourth to J. B. Smith and one-fourth to W. V. Smith, Jacksonville, Oreg. Gravity-pump. No. 1,026,713; May 21; Sp. p. 3563; Gaz. vol. 178; p. 622.
Smith, George H., Broughton, Ohio. Beet-harvester. No. 1,026,714; May 21; Sp. p. 3565; Gaz. vol. 178; p. 622.
Smith, George H., Broughton, Ohio. Beet-harvester. No. 1,026,835; May 21; Sp. p. 3840; Gaz. vol. 178; p. 663.
Smith, George H., Aspinwall, Pa. Blast-furnace top. No. 1,031,478; July 2; Gaz. vol. 180; p. 220.
Smith, George H., Nutley, assignor to Union Typewriter Company, Jersey City, N. J. Type-writing machine. No. 1,025,213; May 7; Sp. p. 228; Gaz. vol. 178; p. 38.
Smith, George H., Nutley, assignor to Union Typewriter Company, Jersey City, N. J. Type-writing machine. No. 1,034,154; July 30; Gaz. vol. 180; p. 1279.
Smith, George H., assignor of one-third to C. L. Smith and one-third to R. C. Smith, Dayton, Ohio. Block-signal system. No. 1,041,686; Oct. 15; Gaz. vol. 183; p. 743.
Smith, George L., South Kaukauna, Wis. Curtain and shade holder. No. 1,030,340; June 25; Sp. p. 4975; Gaz. vol. 179; p. 887.
Smith, George L., Washington, D. C. Vehicle-shield. No. 1,036,018; Aug. 20; Gaz. vol. 181; p. 613.
Smith, George L., and D. F. Asbury, Washington, D. C. Breech mechanism for ordnance. No. 1,020,849; Mar. 19; Sp. p. 3925; Gaz. vol. 176; p. 686.
Smith, George P., Youngs Cove, New Brunswick, Canada. Tack-drawer. No. 1,043,369; Nov. 5; Gaz. vol. 184; p. 116.
Smith, George P. B., Mitcham, England. Aeroplane, flying-machine, and the like. No. 1,039,456; Sept. 24; Gaz. vol. 182; p. 860.
Smith, George W. (See Hatfield, Schuyler C., assignor.)
Smith, George W., Montrose, Colo. Fly-escape. No. 1,043,976; Nov. 12; Gaz. vol. 184; p. 359.
Smith, George W., assignor of two-thirds to C. T. Beaton, Boykins, Va. Fertilizer-distributer. No. 1,036,922; Aug. 27; Gaz. vol. 181; p. 956.
Smith, George W., assignor to The Ingersoll Milling Machine Company, Rockford, Ill. Face-mill grinder. No. 1,039,075; Sept. 17; Gaz. vol. 182; p. 707.
Smith, George W., and W. B. Thomas, Columbus, Ohio. Picture-machine. No. 1,031,879; July 9; Gaz. vol. 180; p. 401.
Smith, George W., and F. F. Flagg, Worcester, Mass. Envelop-machine. No. 1,039,603; Sept. 24; Gaz. vol. 182; p. 912.
Smith, George W., and W. W. Becker, Buffalo, N. Y. Fountain-brush. No. 1,044,278; Nov. 12; Gaz. vol. 184; p. 461.
Smith, Gilman B. (See Schaeffer, Louis J., assignor.)
Smith, Glenn S., Washington, D. C. Draftsman's apparatus. No. 1,035,755; Aug. 13; Gaz. vol. 181; p. 487.
Smith, Goodwin B., assignor to The Mlle. Wolfe Company, Philadelphia, Pa. Dress-form. No. 1,048,000; Dec. 24; Gaz. vol. 185; p. 863.
Smith, Grant, Toronto, Ontario, Canada. Pressure-governor for heating systems. No. 1,016,372; Feb. 6; Sp. p. 298; Gaz. vol. 175; p. 47.
Smith, Grant E., Poughkeepsie, N. Y. Means for heating automobile steering-wheels. No. 1,022,273; Apr. 2; Sp. p. 1090; Gaz. vol. 177; p. 175.
Smith, Hamlet C. (See Hopper, James F., assignor.)
Smith, Harlin J., assignor of one-third to J. S. Dailey, East Liverpool, and one-third to D. T. Smith, Calcutta, Ohio. Metallic tie, rail-fastener, and rail-joint. No. 1,032,161; July 9; Gaz. vol. 180; p. 493.
Smith, Harold T., Willis, assignor of one-third to B. L. Cornelius, Hutchinson, and one-third to A. V. Smith, Willis, Kans. Oil-burner. No. 1,028,973; June 11; Sp. p. 1964; Gaz. vol. 179; p. 339.
Smith, Harrison B., Bayside, N. Y. Brush. No. 1,030,137; June 18; Sp. p. 4495; Gaz. vol. 179; p. 776.
Smith, Harry, Norfolk, Va. Feeding mechanism for ice-shaving machines. No. 1,048,599; Dec. 31; Gaz. vol. 185; p. 1104.
Smith, Harry E. (See Beebe and Smith.)
Smith, Harry F., Lexington, Ohio. Making producer-gas. No. 1,027,290; May 21; Sp. p. 4873; Gaz. vol. 178; p. 820.
Smith, Harvey M., assignor of one-half to J. W. O'Connell, San Diego, Cal. Cable or track controlled hydroaeroplane. No. 1,030,024; June 18; Sp. p. 4257; Gaz. vol. 179; p. 737.
Smith, Hazor J., assignor to Embossing Process Company, Chicago, Ill. Apparatus for melting and drying embossed printing. No. 1,025,594; May 7; Sp. p. 1094; Gaz. vol. 178; p. 170.
Smith, Henry A., Elgin, assignor to Star Manufacturing Company, Carpentersville, Ill. Rake-tooth point. No. 1,025,322; May 7; Sp. p. 485; Gaz. vol. 178; p. 75.
Smith, Henry A., Atlanta, assignor of one-fourth to C. C. Hudson, East Point, and one-sixth to A. I. V. Wilson, Atlanta, Ga. Coin-distributing apparatus. No. 1,039,604; Sept. 24; Gaz. vol. 182; p. 912.
Smith, Henry L., Havana, Fla. Detachable saw-handle. No. 1,047,714; Dec. 17; Gaz. vol. 185; p. 739.
Smith, Henry L., Pittsfield, Mass., assignor to General Electric Company. Oil-switch. No. 1,031,479; July 2; Gaz. vol. 180; p. 220.
Smith, Henry L., Schenectady, N. Y., assignor to General Electric Company. Automatic oil-switch. No. 1,046,119; Dec. 3; Gaz. vol. 185; p. 110.
Smith, Henry M. (See Swain and Smith.)
Smith, Henry V., assignor of one-fourth to E. H. H. Smith, Bridgeport, Conn. Turbine. No. 1,031,093; July 2; Gaz. vol. 180; p. 87.
Smith, Henry V., assignor of one-half to E. H. H. Smith, Bridgeport, Conn. Alcohol-burner. No. 1,041,893; Oct. 22; Gaz. vol. 183; p. 853.
Smith, Herbert L., Clinton, assignor to Clinton Wire Cloth Company, Boston, Mass. Circuit-breaker. No. 1,043,637; Nov. 5; Gaz. vol. 184; p. 210.
Smith, Herman C., Whittier, Cal. Cable-cutting device. No. 1,027,918; May 28; Sp. p. 6227; Gaz. vol. 178; p. 1069.
Smith, Horace A., Isabel, Ill. Gas-purifier. No. 1,015,353; Jan. 23; Sp. p. 5002; Gaz. vol. 174; p. 863.
Smith, Horace M., assignor to The Liquid Carbonic Company, Chicago, Ill. Carbonating apparatus. No. 1,026,715; May 21; Sp. p. 3570; Gaz. vol. 178; p. 622.
Smith, Howard R., Washington, Pa. Mouth-mirror. No. 1,021,639; Mar. 26; Sp. p. 5592; Gaz. vol. 176; p. 1005.
Smith, Hugh A., assignor to The Standard Meter Company, Hopewell, N. J. Prepayment gas-meter. No. 1,036,361. Aug. 20; Gaz. vol. 181; p. 736.
Smith, Hunter, assignor of two-thirds to F. D. Chase, Berkeley, Cal. Superheater. No. 1,014,530; Jan. 9; Sp. p. 3155; Gaz. vol. 174; p. 525.
Smith, Irving B., assignor, by mesne assignments, to Electrelle Company, Philadelphia, Pa. Electric piano. No. 1,037,349; Sept. 3; Gaz. vol. 182; p. 56.
Smith, Irving R., Milwaukee, Wis. Foundry-flask. No. 1,043,977; Nov. 12; Gaz. vol. 184; p. 359.
Smith, Isaac W. (See Fisk and Smith.)
Smith, J. C., *et al.* (See Huntley, Stephen A., assignor.)
Smith, J Clyde, Chicago, Ill. Piano-case. No. 1,013,326; Jan. 2; Sp. p. 529; Gaz. vol. 174; p. 84.
Smith, J. O., *et al.* (See Reese, Guy F., assignor.)
Smith, Jabez M., Malvern, Ark. Rail-joint. No. 1,020,627; Mar. 19; Sp. p. 3451; Gaz. vol. 176; p. 610.
Smith, James. (See Kennedy, Henry A., assignor.)
Smith, James, Worcester, Mass. Circular combing-machine. No. 1,026,058; May 14; Sp. p. 2129; Gaz. vol. 178; p. 362.
Smith, James, Reliance, S. D. Weed-cutter. No. 1,041,522; Oct. 15; Gaz. vol. 183; p. 690.
Smith, James, San Francisco, Cal. Carpenter's gage. No. 1,041,687; Oct. 15; Gaz. vol. 183; p. 744.
Smith, James, Oakland, Cal. Aeroplane. No. 1,047,581; Dec. 17; Gaz. vol. 185; p. 692.
Smith, James, Ealing, England, assignor to Babcock & Wilcox Company, Bayonne, N. J. Apparatus for charging open-hearth furnaces, &c. No. 1,028,619; June 4; Sp. p. 1205; Gaz. vol. 179; p. 184.
Smith, James, Ealing, England, assignor to Babcock & Wilcox Company, Bayonne, N. J. Apparatus for charging open-hearth furnaces and the like. No. 1,028,620; June 4; Sp. p. 1207; Gaz. vol. 179; p. 185.
Smith, James, Pittsburgh, assignor of one-half to W. Smith, Allegheny county, Pa. Bosh-plate. No. 1,031,388; July 2; Gaz. vol. 180; p. 189.
Smith, James, Pittsburgh, assignor of one-half to W. Smith, Allegheny county, Pa. Bosh-plate. No. 1,031,389; July 2; Gaz. vol. 180; p. 189.
Smith, James B., *et al.* (See Smith and Hudson, assignors.)
Smith, James C. (See Beall and Skellenger, assignors.)
Smith, James D., Stoneville, N. C. Brake. No. 1,048,365; Dec. 24; Gaz. vol. 185; p. 986.
Smith, James J., New York, N. Y. Stone-cutting saw. No. 1,043,475; Nov. 5; Gaz. vol. 184; p. 154.

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Smith, James M., assignor of one-half to W. D. C. Wright, Philadelphia, Pa. Double or twin interrupter for ignition systems. No. 1,018,137; Feb. 20; Sp. p. 4239; Gaz. vol. 175; p. 728.
Smith, James M., assignor of one-half to W. D. C. Wright, Philadelphia, Pa. Electrical-circuit switch. No. 1,018,381; Feb. 20; Sp. p. 4738; Gaz. vol. 175; p. 811.
Smith, James M., assignor of one-half to W. D. C. Wright, Philadelphia, Pa. Current distributer and timer. No. 1,038,451; Sept. 10; Gaz. vol. 182; p. 463.
Smith, James M., Philadelphia, assignor of one-half to C. A. Magruder, Bryn Mawr, Pa. Current distributer and timer. No. 1,048,903; Dec. 31; Gaz. vol. 185; p. 1210.
Smith, James R., Mechanicsville, N. Y. Pipe-cutter. No. 1,020,580; Mar. 19; Sp. p. 3351; Gaz. vol. 176; p. 585.
Smith, James V. (See Pritchett, James M., assignor.)
Smith, Jason B., Verden, Okla. Combined wire-stretcher and hoisting device. No. 1,034,844; Aug. 6; Gaz. vol. 181; p. 149.
Smith, Jay A., Chicago, Ill. Flash-light apparatus. No. 1,026,329; May 14; Sp. p. 2739; Gaz. vol. 178; p. 457.
Smith, Jesse R., Benton, Ill. Railway-tie puller. No. 1,015,647; Jan. 23; Sp. p. 5647; Gaz. vol. 174; p. 965.
Smith, Jesse W. (See Howard and Smith.)
Smith, Jessie, Selma, Ala. Food-warming cabinet. No. 1,016,791; Feb. 6; Sp. p. 1249; Gaz. vol. 175; p. 192.
Smith, Jessie E., New York, N. Y., assignor of one-half to J. A. Shackelford, Chicago, Ill. Theatrical-stage appliance. No. 1,031,880; July 9; Gaz. vol. 180; p. 401.
Smith, Joe, and H. C. Pigott, Seattle, Wash. Stump-burning appliance. No. 1,046,031; Dec. 3; Gaz. vol. 185; p. 80.
Smith, John A., Harrisburg, Pa., assignor to Elliott-Fisher Company, New York, N. Y. Combined type-writing, adding, and subtracting machine. No. 1,037,350; Sept. 3; Gaz. vol. 182; p. 57.
Smith, John C. (See Winkley and Smith.)
Smith, John C., Gridley, Cal. Lamp burner and globe. No. 1,014,531; Jan. 9; Sp. p. 3156; Gaz. vol. 174; p. 525.
Smith, John C., Detroit, Mich. Threading-tool. No. 1,041,362; Oct. 15; Gaz. vol. 183; p. 637.
Smith, John C., Amboy, Wash. Car-starting device. No. 1,046,342; Dec. 3; Gaz. vol. 185; p. 189.
Smith, John C., Louisville, Ky. Electromagnetic switch. No. 1,048,366; Dec. 24; Gaz. vol. 185; p. 986.
Smith, John C., Louisville, Ky. Motor-control system. No. 1,048,432; Dec. 24; Gaz. vol. 185; p. 1007.
Smith, John C., Oak Park, assignor of one-half to R. H. Rice, Chicago, Ill. Attachment-plug or the like. No. 1,048,001; Dec. 24; Gaz. vol. 185; p. 863.
Smith, John E., Turlock, Cal. Watchmaker's tool. No. 1,024,530; Apr. 30; Sp. p. 5995; Gaz. vol. 177; p. 1066.
Smith, John E., Laurel, and W. F. Sult, Gilman, Iowa. Ventilated hat. No. 1,039,605; Sept. 24; Gaz. vol. 182; p. 912.
Smith, John F. (See Brown and Smith.)
Smith, John F., assignor of one-half to J. Fredrick, Wooster, Ohio. Rotary pump. No. 1,045,754; Nov. 26; Gaz. vol. 184; p. 1035.
Smith, John F. G., Washington, D. C. Window-ventilator. No. 1,035,392; Aug. 13; Gaz. vol. 181; p. 366.
Smith, John G., Duluth, Minn., assignor to F. E. Harder, Detroit, Mich. Bonding rail-joint. No. 1,033,767; July 23; Gaz. vol. 180; p. 1115.
Smith, John G., Duluth, Minn., assignor to F. E. Harder, Detroit, Mich. Non-refillable bottle. No. 1,037,069; Aug. 27; Gaz. vol. 181; p. 1006.
Smith, John H., *et al.* (See Payne, Ernest E. M., assignor.)
Smith, John H., Zurich, Switzerland, and W. Merckens, Mülhausen, Germany. Bleach-out process of color photography. No. 1,013,458; Jan. 2; Sp. p. 800; Gaz. vol. 174; p. 128.
Smith, John L., Detroit, Mich. Storage battery. No. 1,021,900; Apr. 2; Sp. p. 316; Gaz. vol. 177; p. 52.
Smith, John P. (See Kilgore, Charles T., assignor.)
Smith, John P., Seguin, Tex. Folding crate. No. 1,042,164; Oct. 22; Gaz. vol. 183; p. 942.
Smith, John R., Flagstaff, Ariz. Tire-armor. No. 1,037,677; Sept. 3; Gaz. vol. 182; p. 169.
Smith, John W., *et al.* (See Mitchell, George R., assignor.)
Smith, John W., Chicago, Ill. Sound-deadening casing for vacuum-cleaners. No. 1,030,933; July 2; Gaz. vol. 180; p. 28.
Smith, John W., Chicago, Ill. Pneumatic pumping apparatus for vacuum-cleaners. No. 1,031,151; July 2; Gaz. vol. 180; p. 107.
Smith, Joseph F., Ancaster, Ontario, Canada. Elevator. No. 1,020,458; Mar. 19; Sp. p. 3069; Gaz. vol. 176; p. 555.
Smith, Joseph H., Decoto, Cal. Spring unit. No. 1,037,556; Sept. 3; Gaz. vol. 182; p. 128.
Smith, Joseph J., Jr., Benton Harbor, Mich. Safety attachment for street-car fare-boxes. No. 1,035,393; Aug. 13; Gaz. vol. 181; p. 367.
Smith, Joseph W., Middletown, Ohio. Manicure-kit. No. 1,040,446; Oct. 8; Gaz. vol. 183; p. 290.
Smith, Josiah L. (See Smith, Oliver H. and J. L.)
Smith, Justus J., New York, N. Y. Adjustable door-jamb. No. 1,046,666; Dec. 10; Gaz. vol. 185; p. 342.
Smith, Kelsey, Girard, Ohio. Valve-gear stop for steam-engines. No. 1,033,039; July 16; Gaz. vol. 180; p. 836.
Smith, L. Howard. (See Land, Gordon, assignor.)
Smith, Leo, *et al.* (See Moore, Elmer E., assignor.)
Smith, Leon R., assignor to The Henricks Novelty Company, Indianapolis, Ind. Driven-shaft governor. No. 1,030,934; July 2; Gaz. vol. 180; p. 28.
Smith, Lewis C., and M. A. Blumenberg, New York, N. Y.; said Smith assignor to said Blumenberg. Player-piano. No. 1,044,092; Nov. 12; Gaz. vol. 184; p. 398.
Smith, Lewis R., Rome, Ga. Collapsible cup. No. 1,033,744; July 23; Gaz. vol. 180; p. 1108.
Smith, Lloyd E., Charleston, W. Va. Water filtration and supply system. No. 1,026,612; May 14; Sp. p. 3330; Gaz. vol. 178; p. 550.
Smith, Louis E., *et al.* (See Sawyer, Edward H., Jr., assignor.)
Smith, Louis T., San Jose, Cal. Limb-support. No. 1,048,750; Dec. 31; Gaz. vol. 185; p. 1157.
Smith, Luther K., Moberly, Mo., assignor to A. C. Buzby, Philadelphia, Pa. Journal-box. No. 1,046,032; Dec. 3; Gaz. vol. 185; p. 80.
Smith, Mabel E., *et al.* (See Schoonover, James S., assignor.)
Smith, Mark H. (See Joy, Smith, and Korff.)
Smith, Mark H., assignor to Korff Manufacturing Company, Lansing, Mich. Collapsible bier or coffin-truck. No. 1,032,630; July 16; Gaz. vol. 180; p. 698.
Smith, Martin V., assignor of one-half to J. J. Delahanty, Hartford, Conn. Piston. No. 1,014,782; Jan. 16; Sp. p. 3767; Gaz. vol. 174; p. 641.
Smith, Martin V., assignor of one-half to J. J. Delahanty, Hartford, Conn. Pressure-regulator. No. 1,021,383; Mar. 26; Sp. p. 5032; Gaz. vol. 176; p. 917.
Smith Metal Perforating Company. (See Smith, Andrew, assignor.)
Smith, Michael H., Kansas City, Mo. Adjustable shelf. No. 1,021,432; Mar. 26; Sp. p. 5171; Gaz. vol. 176; p. 936.
Smith, Milo A., and T. J. Thornton, Albion, Pa. Tender coal-gate. No. 1,048,222; Dec. 24; Gaz. vol. 185; p. 937.
Smith, Milton A., Woonsocket, R. I. Micrometer-gage. No. 1,021,384; Mar. 26; Sp. p. 5038; Gaz. vol. 176; p. 918.
Smith, Myer. (See Miller, Bliden, and Smith.)
Smith, Norman J. (See Leonard and Smith.)
Smith, Norman R., Pasco, Wash., assignor to Hydro Patent Power Co., Portland, Oreg. Current-power transmuter. No. 1,030,835; June 25; Sp. p. 6394; Gaz. vol. 179; p. 1066.
Smith, O. Douglas, *et al.* (See Tessmer, Herman G., assignor.)
Smith, Oberlin, Bridgeton, N. J. Reversible power-transmission mechanism. No. 1,033,284; July 23; Gaz. vol. 180; p. 960.
Smith, Oliver C., Seattle, Wash. Strainer-cleaner. No. 1,033,745; July 23; Gaz. vol. 180; p. 1108.
Smith, Oliver H., Slateford, Pa., and J. L. Smith, Southern Pines, N. C. Means for the interchange of messages between a station and a moving car. No. 1,042,983; Oct. 29; Gaz. vol. 183; p. 1251.
Smith, Oliver J. A., Piedmont, Mo. Stake or standard for wagon-bolsters. No. 1,028,621; June 4; Sp. p. 1208; Gaz. vol. 179; p. 185.
Smith, Oliver J. A., Piedmont, Mo., assignor of one-half to E. L. Heinrich, Fort Worth, Tex. Magazine-hammer. No. 1,031,480; July 2; Gaz. vol. 180; p. 221.
Smith, Ollie F., Dallas, Tex. Hydrant. No. 1,040,447; Oct. 8; Gaz. vol. 183; p. 290.
Smith, Orbin F., Ottumwa, Iowa, assignor, by mesne assignments, to Emerson-Brantingham Company, Rockford, Ill. Side-delivery rake and tedder. No. 1,043,476; Nov. 5; Gaz. vol. 184; p. 154.
Smith, Orrice R., assignor of one-half to J. F. Carson, Kellogg, Idaho. Screening device. No. 1,033,628; July 23; Gaz. vol. 180; p. 1072.
Smith, Oscar A., assignor to The National-Acme Manufacturing Company, Cleveland, Ohio. Friction-clutch-operating mechanism. No. 1,020,459; Mar. 19; Sp. p. 3070; Gaz. vol. 176; p. 556.
Smith, Oscar A., assignor to The National-Acme Manufacturing Company, Cleveland, Ohio. Reel for metal-working machines. No. 1,020,460; Mar. 19; Sp. p. 3073; Gaz. vol. 176; p. 556.
Smith, Oscar A., assignor to The National-Acme Manufacturing Company, Cleveland, Ohio. Tool-carrier for screw-machines. No. 1,033,835; July 30; Gaz. vol. 180; p. 1167.
Smith, Oscar A., assignor to The National-Acme Manufacturing Company, Cleveland, Ohio. Nut-tap. No. 1,033,836; July 30; Gaz. vol. 180; p. 1167.
Smith, Oscar A., assignor to The National-Acme Manufacturing Company, Cleveland, Ohio. Hexagonal milling-machine. No. 1,033,837; July 30; Gaz. vol. 180; p. 1168.
Smith, Oscar A., assignor to The National-Acme Manufacturing Company, Cleveland, Ohio. Threading-die. No. 1,038,670; Sept. 17; Gaz. vol. 182; p. 572.

Alphabetical list of patentees—Continued.

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Smith, Oscar W., Springfield, Ohio. Trolley-harp. No. 1,021,077; Mar. 26; Sp. p. 4390; Gaz. vol. 176; p. 814.
Smith, Otis G., Denver, Colo. Window-screen hanger. No. 1,046,667; Dec. 10; Gaz. vol. 185; p. 342.
Smith, Owen P., Houston, Tex. Lure-conveyer. No. 1,038,504; Sept. 10; Gaz. vol. 182; p. 480.
Smith, Paul H., Columbus, Ohio. Measuring-faucet. No. 1,029,725; June 18; Sp. p. 3607; Gaz. vol. 179; p. 636.
Smith, Peter J. (See Manley, Thulin, and Smith.)
Smith, Philip E. (See Winship and Smith.)
Smith, Philip S., Philadelphia, Pa. Labeling-machine. No. 1,035,914; Aug. 20; Gaz. vol. 181; p. 580.
Smith & Phillips Manufacturing Company. (See Paquette, Herman A., assignor.)
Smith and Post Company. (See Symons, Edgar B., assignor.)
Smith Premier Typewriter Company, The. (See Barr, John H., assignor.)
Smith Premier Typewriter Company. (See Carhart, Herbert A., assignor.)
Smith Premier Typewriter Company, The. (See Dyer, William A., assignor.)
Smith Premier Typewriter Company, The. (See King and Price, assignors.)
Smith Premier Typewriter Company. (See Zellers and Price, assignors.)
Smith, Putnam D., Oakland, Cal. Aeroplane. No. 1,034,655; Aug. 6; Gaz. vol. 181; p. 83.
Smith Refrigerating Company. (See Smith, Daniel C., assignor.)
Smith, Reinold V., assignor to Arvis Motor Co., Salt Lake City, Utah. Rotary engine. No. 1,035,253; Aug. 13; Gaz. vol. 181; p. 315.
Smith, Richard B., Sydney, New South Wales, Australia, Multiple-record phonograph. No. 1,023,047; Apr. 9; Sp. p. 2746; Gaz. vol. 177; p. 469.
Smith, Richard C., and M. T. Sinclair, Plymouth, W. Va. Railway-crossing. No. 1,028,622; June 4; Sp. p. 1209; Gaz. vol. 179; p. 185.
Smith, Robert B., Quincy, Mass., assignor to United Shoe Machinery Company. Punching mechanism for eyeleting-machines, &c. No. 1,016,717; Feb. 6; Sp. p. 1094; Gaz. vol. 175; p. 168.
Smith, Robert B., Stoughton, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Eyeleting machine. No. 1,017,602; Feb. 13; Sp. p. 2992; Gaz. vol. 175; p. 505.
Smith, Robert C., *et al.* (See Smith, George H., assignor.)
Smith, Robert H., Boston, Mass. Book-holder. No. 1,016,970; Feb. 13; Sp. p. 1645; Gaz. vol. 175; p. 289
Smith, Robert H., assignor of one-eighth to J. A. Law Spartanburg, S. C., eighteen one-hundredths to T. L Camp, and eighteen one-hundredths to E. M. Durant Atlanta, Ga. Stripper for carding-machines. No 1,018,935; Feb. 27; Sp. p. 5984; Gaz. vol. 175; p. 1032
Smith, Robert H., and B. Craswell, Melrose, Minn. Locomotive exhaust-pipe and spark-arrester. No. 1,032,711; July 16; Gaz. vol. 180; p. 728.
Smith, Robert J., Yonkers, N. Y. Hob for finishing worm-gear teeth. No. 1,049,161; Dec. 31; Gaz. vol. 185; p. 1297.
Smith, Robert J., Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Air-drill socket. No. 1,028,623; June 4; Sp. p. 1210; Gaz. vol. 179; p. 185.
Smith, Robert L. (See Russ, Frank H., assignor.)
Smith, Robert L., Bessemer, Ala. Combined clamp and tube-compressor. No. 1,033,959; July 30; Gaz. vol. 180; p. 1211.
Smith, Robert M., Kelvinside, Scotland. Machine for polishing boots or shoes. No. 1,032,866; July 16; Gaz. vol. 180; p. 779.
Smith, Robert R., Philadelphia, Pa. Pump for vacuum-cleaners. No. 1,038,222; Sept. 10; Gaz. vol. 182; p. 382.
Smith, Robert R., Philadelphia, Pa. Dust-separator for vacuum-cleaners. No. 1,038,223; Sept. 10; Gaz. vol. 182; p. 382.
Smith, Robert T., Warrington, England. Vehicle-wheel. No. 1,024,154; Apr. 23; Sp. p. 5132; Gaz. vol. 177; p. 902.
Smith, Robert T., Jr., Warrington, England. Manufacture of wheels. No. 1,026,613; May 14; Sp. p. 3331; Gaz. vol. 178; p. 550.
Smith, Robert T., Jr., assignor of one-half to Lynton Wheel & Tyre Syndicate, Limited, Longford Bridge, Warrington, England. Vehicle-wheel. No. 1,032,957; July 16; Gaz. vol. 180; p. 807.
Smith, Robert W. (See Lingo, Louis J., Jr., assignor.)
Smith, Rose, Cleveland, Ohio. Electric heater. No. 1,013,327; Jan. 2; Sp. p. 530; Gaz. vol. 174; p. 84.
Smith, Roy H., Cleveland, Ohio. Bolt-head-trimming machine. No. 1,031,094; July 2; Gaz. vol. 180; p. 87.
Smith, Roy L., Lexington, Ky. Apparatus for discharging collapsible tubes. No. 1,020,321; Mar. 12; Sp. p. 2781; Gaz. vol. 176; p. 471.
Smith, Rudolph C., Yonkers, N. Y. Calculating-scale. No. 1,014,344; Jan. 9; Sp. p. 2804; Gaz. vol. 174; p. 464.
Smith, Rudolph C., Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Elevator safety device. No. 1,016,903; Feb. 6; Sp. p. 1484; Gaz. vol. 175; p. 229.
Smith, Samuel C., Daisy, La. Clam-shell dredger. No. 1,018,848; Feb. 27; Sp. p. 5806; Gaz. vol. 175; p. 1003.
Smith, Samuel J., Truckee, Cal. Pillow. No. 1,018,685; Feb. 27; Sp. p. 5463; Gaz. vol. 175; p. 947.
Smith, Samuel L., Spokane, Wash. Car-coupling. No. 1,020,850; Mar. 19; Sp. p. 3941; Gaz. vol. 176; p. 686.
Smith, Sidney S., assignor to The Goulds Manufacturing Company, Seneca Falls, N. Y. Double-acting compact power-pump. No. 1,039,832; Oct. 1; Gaz. vol. 183; p. 54.
Smith & Son Company, Lee S. (See Hedman, Carl M., assignor.)
Smith & Son Company, Lee S. (See Vernon and De Camp, assignors.)
Smith & Sons Manufacturing Company. (See Bossert, Albert T., assignor.)
Smith, Sterling W. and A. W., Berkeley, Cal. Bed. No. 1,043,477; Nov. 5; Gaz. vol. 184; p. 155.
Smith, Taylor J., Union City, Ga. Combined baling and compressing apparatus. No. 1,022,709; Apr. 9; Sp. p. 2051; Gaz. vol. 177; p. 354.
Smith, Theodore, assignor to Theo. Smith Manufacturing Company, Chicago, Ill. Flexible connection. No. 1,015,718; Jan. 23; Sp. p. 5795; Gaz. vol. 174; p. 988.
Smith, Theodore, assignor to Theo. Smith Manufacturing Company, Chicago, Ill. Electric-light-cord adjuster. No. 1,034,741; Aug. 6; Gaz. vol. 181; p. 114.
Smith, Thomas. (See Crawford, Andrew, assignor.)
Smith, Thomas, assignor of one-half to G. T. Sharpton, San Luis Potosi, Mexico. Valve. No. 1,023,177; Apr. 16; Sp. p. 3087; Gaz. vol. 177; p. 552.
Smith, Thomas H., Jamestown, N. Y. Twister stop-motion. No. 1,033,960; July 30; Gaz. vol. 180; p. 1211.
Smith, Thomas L., Milwaukee, Wis. Wheelbarrow. No. 1,020,461; Mar. 19; Sp. p. 3075; Gaz. vol. 176; p. 556.
Smith, Thomas M., Mullin, Tex. Pipe lifting and lowering jack. No. 1,018,936; Feb. 27; Sp. p. 5987; Gaz. vol. 175; p. 1032.
Smith, Thomas M., New York, N. Y. Electric snap-switch. No. 1,036,019; Aug. 20; Gaz. vol. 181; p. 613.
Smith, Thomas N., Portsmouth, Va. Sand-drier. No. 1,034,656; Aug. 6; Gaz. vol. 181; p. 83.
Smith, Thomas N., Portsmouth, Va. Sand-drier. No. 1,041,523; Oct. 15; Gaz. vol. 183; p. 690.
Smith, Thomas N., San Angelo, Tex. Flying-machine. No. 1,039,457; Sept. 24; Gaz. vol. 182; p. 860.
Smith, Thomas R., assignor of one-half to J. E. Davis, Davis Station, S. C. Gearing. No. 1,040,799; Oct. 8; Gaz. vol. 183; p. 414.
Smith, Thomas S., Ashland, Nebr. Building construction. No. 1,046,668; Dec. 10; Gaz. vol. 185; p. 342.
Smith, Thomas T., Lots Creek township, Ringgold county, Iowa. End-gate fastening. No. 1,018,453; Feb. 27; Sp. p. 4914; Gaz. vol. 175; p. 868.
Smith, Thurston H., Peekskill, N. Y. Thermostatic device. No. 1,030,025; June 18; Sp. p. 4259; Gaz. vol. 179; p. 737.
Smith, Valdemar G., Copenhagen, Denmark. Apparatus for consuming smoke in boiler-furnaces. No. 1,029,952; June 18; Sp. p. 4111; Gaz. vol. 179; p. 713.
Smith, Victor C., Dayton, Ohio. Forming composite strips for making metallic letters. No. 1,023,527; Apr. 16; Sp. p. 3767; Gaz. vol. 177; p. 666.
Smith, Wade H., Macon, Ga. Cover fastening and releasing device. No. 1,029,405; June 11; Sp. p. 2922; Gaz. vol. 179; p. 488.
Smith, Walter B. (See Kinder, Frank C., assignor.)
Smith, Walter E., Clay Center, Kans. Incubator. No. 1,020,720; Mar. 19; Sp. p. 3657; Gaz. vol. 176; p. 643.
Smith, Walter E., Clay Center, Kans. Heat-distributing system. No. 1,020,933; Mar. 19; Sp. p. 4084; Gaz. vol. 176; p. 714.
Smith, Walter E., Boston, assignor to C. C. Rogers, Winchester, Mass. Catnip-ball. No. 1,022,112; Apr. 2; Sp. p. 763; Gaz. vol. 177; p. 122.
Smith, Walter E., Boston, assignor to C. C. Rogers, Winchester, Mass. Catnip-ball. No. 1,022,113; Apr. 2; Sp. p. 765; Gaz. vol. 177; p. 122.
Smith, Walter E., Boston, assignor to C. C. Rogers, Winchester, Mass. Making catnip-balls. No. 1,031,095; July 2; Gaz. vol. 180; p. 88.
Smith, Walter E., Boston, assignor to C. C. Rogers, Winchester, Mass. Antiseptic nest-egg. No. 1,042,494; Oct. 29; Gaz. vol. 183; p. 1082.
Smith, Walter F., Baltimore, Md. Fuel-feeding mechanism. No. 1,025,841; May 7; Sp. p. 1597; Gaz. vol. 178; p. 253.
Smith, Walter H., assignor to The Harris Automatic Press Company, Niles, Ohio. Printing-press. No. 1,019,197; Mar. 5; Sp. p. 423; Gaz. vol. 176; p. 67.
Smith, Walter H., assignor to The Harris Automatic Press Company, Niles, Ohio. Trip mechanism. No. 1,019,378; Mar. 5; Sp. p. 877; Gaz. vol. 176; p. 129.
Smith, Walter H., assignor to The Harris Automatic Press Company, Niles, Ohio. Dampening mechanism for printing-presses. No. 1,029,239; June 11; Sp. p. 2539; Gaz. vol. 179; p. 430.

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Smith, Walter L., assignor to T. C. Rose, Elmira, N. Y. Golf-putter. No. 1,046,343; Dec. 3; Gaz. vol. 185; p. 189.
Smith, Walter M., *et al.* (See Bamberger and Porter, assignors.)
Smith, Walter P., Apache, Okla. Animal-breeder's bag. No. 1,044,934; Nov. 19; Gaz. vol. 184; p. 718.
Smith, Walter R., Halifax, Nova Scotia, Canada. Hook. No. 1,031,390; July 2; Gaz. vol. 180; p. 190.
Smith, Walter T., Jackson, Mich. Vacuum-cleaner. No. 1,026,371; May 14; Sp. p. 2838; Gaz. vol. 178; p. 470.
Smith, Walter W., Gillett, Wis. Sectional flange. No. 1,035,254; Aug. 13; Gaz. vol. 181; p. 316.
Smith, Warren M. (See Curwen and Smith.)
Smith, Washington S., Parkersburg, W. Va. Tool-box. No. 1,026,059; May 14; Sp. p. 2131; Gaz. vol. 178; p. 362.
Smith, Watson R., Jackson, Mich., and F. H. Hampton, Pullman, Ill., assignors to Jackson Cushion Edge Company, Jackson, Mich. Cushion edge pad. No. 1,030,795; June 25; Sp. p. 6216; Gaz. vol. 179; p. 1051.
Smith & Wesson. (See Wesson, Joseph H., assignor.)
Smith, Wilbur F., Deep River, Conn. Light-fixture. No. 1,043,875; Nov. 12; Gaz. vol. 184; p. 322.
Smith, Willard A., Likely, Cal. Hay-loader. No. 1,047,715; Dec. 17; Gaz. vol. 185; p. 739.
Smith, Willard A., Melrose, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for lacing shoe-uppers. No. 1,030,547; June 25; Sp. p. 5466; Gaz. vol. 179; p. 961.
Smith, Willard A., Melrose, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Knot-tying mechanism. No. 1,030,619; June 25; Sp. p. 5741; Gaz. vol. 179; p. 988.
Smith, Willard A., Melrose, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Lacing-machine. No. 1,030,753; June 25; Sp. p. 6080; Gaz. vol. 179; p. 1035.
Smith, Willard A., Portsmouth, N. H., assignor to United Shoe Machinery Company, Paterson, N. J. Mechanism for automatically lacing shoe-uppers. No. 1,030,935; July 2; Gaz. vol. 180; p. 29.
Smith, William. (See Smith, James, assignor.)
Smith, William, Winthrop, Mass. Stuffing-box. No. 1,029,474; June 11; Sp. p. 3056; Gaz. vol. 179; p. 512.
Smith, William A., assignor to International Acheson Graphite Company, Niagara Falls, N. Y. Treating carbon. No. 1,032,246; July 9; Gaz. vol. 180; p. 524.
Smith, William A., assignor to International Acheson Graphite Company, Niagara Falls, N. Y. Electrode. No. 1,032,247; July 9; Gaz. vol. 180; p. 524.
Smith, William A., assignor to International Acheson Graphite Company, Niagara Falls, N. Y. Composite electrode. No. 1,032,248; July 9; Gaz. vol. 180; p. 525.
Smith, William A., Niagara Falls, assignor to International Acheson Graphite Company, New York, N. Y. Composite electrode. No. 1,032,514; July 16; Gaz. vol. 180; p. 659.
Smith, William C., Kearney, Mo. Cornstalk-cutter. No. 1,038,979; Sept. 17; Gaz. vol. 182; p. 679.
Smith, William E. (See Kilbourn, Smith, and Kilbourn.)
Smith, William E. (See Smith and Weier.)
Smith, William E., Pineville, Ky. Combined strainer and funnel. No. 1,046,881; Dec. 10; Gaz. vol. 185; p. 416.
Smith, William E., assignor of one-third to J. E. Acton and one-third to T. H. Cairns, Winnipeg, Manitoba, Canada. Nut-lock. No. 1,021,807; Apr. 2; Sp. p. 107; Gaz. vol. 177; p. 21.
Smith, William F. (See Eisenach and Smith.)
Smith, William G. (See Knowlton and Smith.)
Smith, William H., Minneapolis, Minn. Making wood-stain. No. 1,024,531; Apr. 30; Sp. p. 5997; Gaz. vol. 177; p. 1067.
Smith, William H., Lima, Ohio. Barber-chair attachment. No. 1,027,919; May 28; Sp. p. 6228; Gaz. vol. 178; p. 1069.
Smith, William H., Gayhead, N. Y. Fire-escape. No. 1,029,769; June 18; Sp. p. 3687; Gaz. vol. 179; p. 650.
Smith, William H., Beach, N. D. Broom-bridle. No. 1,039,203; Sept. 24; Gaz. vol. 182; p. 771.
Smith, William L., Indianapolis, Ind. Shoe-stretcher. No. 1,024,869; Apr. 30; Sp. p. 6738; Gaz. vol. 177; p. 1185.
Smith, William L., Columbus, Ohio, assignor, by mesne assignments, to The Jeffrey Manufacturing Company. Electric vehicle and cable-reeling mechanism therefor. No. 1,045,903; Dec. 3; Gaz. vol. 185; p. 37.
Smith, William M. (See Kostenbader, Howard T., assignor.)
Smith, William M., assignor of one-third to H. F. Madison, Bastrop, La. Coupling. No. 1,026,716; May 21; Sp. p. 3574; Gaz. vol. 178; p. 623.
Smith, William M., assignor of one-half to L. Bentley, Bastrop, La. Mail-bag catching and delivering apparatus. No. 1,041,688; Oct. 15; Gaz. vol. 183; p. 744.
Smith, William O., Oxford, Mich. Adjustable garden-hose supporter. No. 1,046,033; Dec. 3; Gaz. vol. 185; p. 80.
Smith, William P., *et al.* (See Hickton, Charles, assignor.)
Smith, William P., Nevada, Mo. Loss-preventing device. No. 1,032,436; July 16; Gaz. vol. 180; p. 632.
Smith, William P., Locust Grove, Va. Safety attachment for boilers. No. 1,040,800; Oct. 8; Gaz. vol. 183; p. 414.
Smith, William R., assignor to Buffalo Leather Co., Buffalo, N. Y. Machine for brushing and cleaning leather. No. 1,021,007; Mar. 26; Sp. p. 4255; Gaz. vol. 176; p. 790.
Smith, William R., assignor to Buffalo Leather Co., Buffalo, N. Y. Dyeing fibrous materials. No. 1,025,323; May 7; Sp. p. 486; Gaz. vol. 178; p. 75.
Smith, William R., assignor to Buffalo Leather Co., Buffalo, N. Y. Treating leather and product thereof. No. 1,025,324; May 7; Sp. p. 488; Gaz. vol. 178; p. 76.
Smith, William R., assignor to Buffalo Leather Co., Buffalo, N. Y. Apparatus for baking or curing patent-leather, &c. No. 1,045,623; Nov. 26; Gaz. vol. 184; p. 990.
Smith, William S. (See Call and Smith.)
Smith, William T., Swissvale, Pa. Tie and rail-fastener. No. 1,022,890; Apr. 9; Sp. p. 2421; Gaz. vol. 177; p. 414.
Smith, William V., *et al.* (See Smith and Hudson, assignors.)
Smith, William V., Schenectady, N. Y. Valve. No. 1,036,923; Aug. 27; Gaz. vol. 181; p. 957.
Smith, William W., Ensley, Ala. Furnace slag-pocket. No. 1,042,046; Oct. 22; Gaz. vol. 183; p. 903.
Smith, Willis A., Cape Neddick, Me. Sign-holder. No. 1,033,838; July 30; Gaz. vol. 180; p. 1168.
Smith, Winfield S., assignor of one-half to A. Lytle and W. H. Phelps, Forest, Ohio. Excavator. No. 1,044,279; Nov. 12; Gaz. vol. 184; p. 462.
Smith-Worthington Company, The. (See Lilley, Alfred L., assignor.)
Smithson, Charles, Winchester, Ill. Gate-operating device. No. 1,033,746; July 23; Gaz. vol. 180; p. 1109.
Smock, Harold E., Matawan, N. J. Cleaning attachment for harrows. No. 1,027,920; May 28; Sp. p. 6229; Gaz. vol. 178; p. 1069.
Smoot, Daisy E., Piedmont, Mo. Device for poisoning rodents. No. 1,019,543; Mar. 5; Sp. p. 1221; Gaz. vol. 176; p. 182.
Smoot, L. E. (See Harlan, Ashlan F., assignor.)
Smothers, John N., and J. N. Carroll, Mortons Gap, Ky. Pick-sharpener. No. 1,017,697; Feb. 20; Sp. p. 3188; Gaz. vol. 175; p. 574.
Smouse, George E. (See Snyder and Torney, assignors.)
Smysor, Mon, Columbus, Ohio. Cooling-board. No. 1,027,921; May 28; Sp. p. 6231; Gaz. vol. 178; p. 1070.
Smyth, Samuel, Pittston, Pa. Grate. No. 1,046,882; Dec. 10; Gaz. vol. 185; p. 416.
Smyth, William H., Berkeley, Cal. Valve. No. 1,023,885; Apr. 23; Sp. p. 4519; Gaz. vol. 177; p. 809.
Smyth, William H., Berkeley, Cal., assignor to Humphrey Gas Pump Company. Utilizing heat energy. No. 1,037,070; Aug. 27; Gaz. vol. 181; p. 1007.
Smyth, William H., Berkeley, Cal., assignor to Humphrey Gas Pump Company. Utilizing heat energy. No. 1,037,071; Aug. 27; Gaz. vol. 181; p. 1007.
Smyth, William O., Brilliant, Ohio. Combined shade and curtain hanger. No. 1,033,747; July 23; Gaz. vol. 180; p. 1109.
Smythe, Horace E., assignor to Window Glass Machine Company, Pittsburgh, Pa. Glass-pot furnace. No. 1,016,105; Jan. 30; Sp. p. 6621; Gaz. vol. 174; p. 1151.
Smythe, Horace E., assignor to The S. R. Smythe Company, Pittsburgh, Pa. Metallurgical furnace. No. 1,042,047; Oct. 22; Gaz. vol. 183; p. 904.
Smythe, Horace E., assignor to The S. R. Smythe Company, Pittsburgh, Pa. Soaking-pit. No. 1,044,093; Nov. 12; Gaz. vol. 184; p. 399.
Smythe, Joseph B., Coaticook, Quebec, Canada. Lifting-jack. No. 1,019,095; Mar. 5; Sp. p. 193; Gaz. vol 176; p. 31.
Snaman, William E., Pittsburgh, Pa. Float-valve. No. 1,018,937; Feb. 27; Sp. p. 5991; Gaz. vol. 175; p. 1033.
Snap Detachable Belt Fastener Co. (See Andres and Meyer, assignors.)
Snare, John P., Modesto, Cal. Producing talking-machine records. No. 1,035,057; Aug. 6; Gaz. vol. 181; p. 217.
Snartemo, Johan A. J. (See Udkler and Snartemo.)
Snavely, Benjamin F. (See Shapley, Raymond R., assignor.)
Snead, George P., Pine Bluff, Ark. Side bearing for railway-cars. No. 1,043,037; Oct. 29; Gaz. vol. 183; p. 1271.
Snead, John M., Chicago, Ill., assignor to Gravity Coal Bin Company. Sorting and storing device. No. 1,016,971; Feb. 13; Sp. p. 1646; Gaz. vol. 175; p. 289.
Snead, John M., and C. Brady, Chicago, Ill., assignors to Gravity Coal Bin Company. Dumping-trestle. No. 1,013,229; Jan. 2; Sp. p. 309; Gaz. vol. 174; p. 49.
Snedaker, Earl R., Philadelphia, Pa. Puzzle. No. 1,029,240; June 11; Sp. p. 2541; Gaz. vol. 179; p. 430.
Sneddon, James P., Barberton, Ohio, assignor to The Babcock & Wilcox Company, New York, N. Y. Superheater-boiler. No. 1,045,207; Nov. 26; Gaz. vol. 184; p. 842.

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Snee, John A. (See Fernekes, Gustave, assignor.)
Snee, John A., West Elizabeth, Pa. Producing carbon-black. No. 1,036,362; Aug. 20; Gaz. vol. 181; p. 737.
Snee, John A., West Elizabeth, Pa. Apparatus for producing carbon-black. No. 1,036,363; Aug. 20; Gaz. vol. 181; p. 737.
Sneed, Eugene C., Richmond, Va. Invalid-table support. No. 1,043,638; Nov. 5; Gaz. vol. 184; p. 210.
Snell, Albert C., assignor to Electro Surgical Instrument Co., Rochester, N. Y. Tool-holder. No. 1,038,011; Sept. 10; Gaz. vol. 182; p. 313.
Snell, George D., Denver, Colo. Disinfectant or insecticide container. No. 1,016,648; Feb. 6; Sp. p. 955; Gaz. vol. 175; p. 144.
Snell, Henry V., and J. Callan, Globe, Ariz. Wheel. No. 1,031,822; July 9; Gaz. vol. 180; p. 381.
Snell, William T., Bisbee, Ariz. Packing-box. No. 1,018,938; Feb. 27; Sp. p. 5993; Gaz. vol. 175; p. 1033.
Snellings, Harvie A., Norfolk, Va. Box. No. 1,019,925; Mar. 12; Sp. p. 1977; Gaz. vol. 176; p. 342.
Snideman, Clora J., and F. H. Henley, Wabash, Ind. Sanitary tray for chairs. No. 1,021,901; Apr. 2; Sp. p. 317; Gaz. vol. 177; p. 52.
Snider, Charles H., Conway, S. C. Envelop. No. 1,044,935; Nov. 19; Gaz. vol. 184; p. 719.
Snively, Jacob H., Seattle, Wash. X-ray tube. No. 1,048,433; Dec. 24; Gaz. vol. 185; p. 1008.
Snodgrass, Charles C., assignor of one-half to I. D. Morgan, New Martinsville, W. Va. Trolley. No. 1,024,290; Apr. 23; Sp. p. 5426; Gaz. vol. 177; p. 950.
Snoe, Thomas W., Alexandria, Ind. Handle-bar grip. No. 1,020,462; Mar. 19; Sp. p. 3076; Gaz. vol. 176; p. 557.
Snook, Abram H., and C. O. Tripp, Winfield, Kans. Tongue-truck. No. 1,014,672; Jan. 16; Sp. p. 3528; Gaz. vol. 174; p. 605.
Snook, Henry J., Santa Monica, Cal. Wave-motor. No. 1,025,929; May 7; Sp. p. 1830; Gaz. vol. 178; p. 283.
Snow Dental Company, The. (See Snow, George B., assignor.)
Snow, Ernest W., Rochester, N. Y. Gutter-box. No. 1,032,249; July 9; Gaz. vol. 180; p. 525.
Snow, George B., assignor to The Snow Dental Company, Buffalo, N. Y. Platform for dental articulators. No. 1,029,149; June 11; Sp. p. 2347; Gaz. vol. 179; p. 400.
Snow, George H. (See Crawford, Harvey F., assignor.)
Snow, Herbert W., Somerville, Mass. Collapsible tube. No. 1,021,709; Mar. 26; Sp. p. 5715; Gaz. vol. 176; p. 1027.
Snow, Isaac, Lawrence, Mass. Loom attachment. No 1,046,669; Dec. 10; Gaz. vol. 185; p. 343.
Snow, Renceler C. (See Côté and Snow.)
Snow, Rollin W. (See Reed and Snow.)
Snow, Stephen, Everett, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Pounding-up machine. No. 1,018,526; Feb. 27; Sp. p. 5125; Gaz. vol. 175; p. 893.
Snow, Stephen, Everett, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Shoe-support for pounding-up machines. No. 1,018,638; Feb. 27; Sp. p. 5367; Gaz. vol. 175; p. 931.
Snow, William E., Hyde Park, assignor to B. F. Sturtevant Company, Boston, Mass. Draft-controlling apparatus for steam-boilers. No. 1,034,039; July 30; Gaz. vol. 180; p. 1240.
Snow, William E., Hyde Park, assignor to B. F. Sturtevant Company, Boston, Mass. Elastic-fluid turbine. No. 1,042,616; Oct. 29; Gaz. vol. 183; p. 1126.
Snyder, Augustus G., Utica, N. Y. Exhaust-muffler. No. 1,024,703; Apr. 30; Sp. p. 6389; Gaz. vol. 177; p. 1126.
Snyder, Augustus G., Utica, N. Y. Exhaust-muffler. No. 1,028,847; June 4; Sp. p. 1675; Gaz. vol. 179; p. 261.
Snyder, Augustus G., Utica, N. Y. Thill-coupling. No. 1,029,896; June 18; Sp. p. 3994; Gaz. vol. 179; p. 695.
Snyder, Balfour C., Brooklyn, N. Y., and J. H. Torney, assignors of one-third to G. E. Smouse, Washington, D. C. Breech mechanism for guns. No. 1,042,048; Oct. 22; Gaz. vol. 183; p. 904.
Snyder, Cassin, Philadelphia, Pa. Fire-extinguisher. No. 1,048,751; Dec. 31; Gaz. vol. 185; p. 1157.
Snyder, Charles F., Allegheny, Pa. Air-pump. No. 1,028,080; May 28; Sp. p. 6567; Gaz. vol. 178; p. 1120.
Snyder, Charles F., Camillus, N. Y. Rectal or pile supporter. No. 1,032,712; July 16; Gaz. vol. 180; p. 729.
Snyder, Craig C. (See Snyder, Ralph M., assignor.)
Snyder, Emery, Springfield, Ohio. Fire-escape. No. 1,016,299; Feb. 6; Sp. p. 137; Gaz. vol. 175; p. 21.
Snyder, Frank, Council Bluffs, Iowa. Lock for car-doors. No. 1,020,721; Mar. 19; Sp. p. 3660; Gaz. vol. 176; p. 644.
Snyder, Fred J., Tucson, Ariz. Anchor-bolt. No. 1,037,678; Sept. 3; Gaz. vol. 182; p. 169.
Synder, Frederick T., Oak Park, Ill. Electrode-holder. No. 1,041,689; Oct. 15; Gaz. vol. 183; p. 744.
Snyder, George B., Wilmerding, Pa. Lock. No. 1,037,072; Aug. 27; Gaz. vol. 181; p. 1008.
Snyder, Harry A., deceased, (M. C. Snyder, administratrix,) and J. E. Snyder, Watonga, Okla. Oil-burner. No. 1,025,325; May 7; Sp. p. 490; Gaz. vol. 178; p. 76.
Snyder, Harry D., assignor to William Mann Company, Philadelphia, Pa. Book-lock. No. 1,025,724; May 7; Sp. p. 1368; Gaz. vol. 178; p. 213.
Snyder, Harry L., Denver, Colo. Paper-bag holder. No. 1,038,980; Sept. 17; Gaz. vol. 182; p. 679.
Snyder, Henry C., and C. Reed, Minneola, Kans. Grease-gun. No. 1,041,524; Oct. 15; Gaz. vol. 183; p. 691.
Snyder, Henry E., Elmira, N. Y. Skirt-marker. No. 1,040,449; Oct. 8; Gaz. vol. 183; p. 291.
Snyder, Henry W., Northumberland, Pa. Shovel-point. No. 1,016,181; Jan. 30; Sp. p. 6753; Gaz. vol. 174; p. 1174.
Snyder, Howard F., assignor to F. L. Maytag, Newton, Iowa. Manure-spreader. No. 1,034,396; July 30; Gaz. vol. 180; p. 1364.
Snyder, Howard F., assignor to F. L. Maytag, Newton, Iowa. Dumping-wagon. No. 1,038,796; Sept. 17; Gaz. vol. 182; p. 617.
Snyder, Howard F., assignor to The Maytag Company, Newton, Iowa. Gear mechanism. No. 1,046,034; Dec. 3; Gaz. vol. 185; p. 80.
Snyder, John A., Highland Town, Md. Cork-assorting machine. No. 1,031,481; July 2; Gaz. vol. 180; p. 221.
Snyder, John A. L., Somis, Cal. Gage. No. 1,044,588; Nov. 19; Gaz. vol. 184; p. 599.
Snyder, John E. (See Snyder, Harry A. and J. E.)
Snyder, John E., Swissvale, assignor, by mesne assignments, to The Colonial Trust Company, trustee, Pittsburgh, Pa. Vibration stop-governor. No. 1,023,886; Apr. 23; Sp. p. 4521; Gaz. vol. 177; p. 810.
Snyder, John F., Oakland, Cal. Sanitary eye-shield. No. 1,029,241; June 11; Sp. p. 2543; Gaz. vol. 179; p. 431.
Snyder, John G., Green Island, N. Y. Engine. No. 1,043,546; Nov. 5; Gaz. vol. 184; p. 180.
Snyder, John W., Michigan City, Ind. Inhaling-mask. No. 1,040,801; Oct. 8; Gaz. vol. 183; p. 415.
Snyder, Joseph, and A. Thomas, Conshohocken, Pa. Tube-welding apparatus. No. 1,019,852; Mar. 12; Sp. p. 1804; Gaz. vol. 176; p. 316.
Snyder, Joseph C., McIlhaney, Pa. Wrench. No. 1,025,842; May 7; Sp. p. 1599; Gaz. vol. 178; p. 254.
Snyder, Mary C., administratrix. (See Snyder, Harry A. and J. E.)
Snyder, Owen T., Columbus, Ohio. Lubricator for elevator-guides. No. 1,017,331; Feb. 13; Sp. p. 2440; Gaz. vol. 175; p. 415.
Snyder, Parke T., Celina, Ohio. Water-current and air motor. No. 1,015,517; Jan. 23; Sp. p. 5352; Gaz. vol. 174; p. 918.
Snyder, Perry E., Hicksville, Ohio. Berry-box. No. 1,041,690; Oct. 15; Gaz vol. 183; p. 745.
Snyder, Peter F., Duquesne, Pa. Flushing apparatus. No. 1,037,679; Sept. 3; Gaz. vol. 182; p. 169.
Snyder, Ralph M., Hawthorne, assignor of one-half to C. C. Snyder, New Bethlehem, Pa. Wrench. No. 1,039,458; Sept. 24; Gaz. vol. 182; p. 860.
Snyder, Robert, Los Angeles, Cal. Covered folding cot. No. 1,023,048; Apr. 9; Sp. p. 2751; Gaz. vol. 177; p. 469.
Snyder, Simon, assignor to Sprout, Waldron & Company, Muncy, Pa. Bolting-cloth cleaner. No. 1,021,008; Mar. 26; Sp. p. 4257; Gaz. vol. 176; p. 791.
Snyder, Walter, Philadelphia, Pa. Bosom-press. No. 1,034,526; Aug. 6; Gaz. vol. 181; p. 42.
Snyder, Wilbur A., Montoursville, Pa. Coin or ticket holder. No. 1,039,833; Oct. 1; Gaz. vol. 183; p. 55.
Snyder, William H., Penn Yan, N. Y. Arithmetical game-board. No. 1,024,704; Apr. 30; Sp. p. 6390; Gaz. vol. 177; p. 1126.
Snyder, William M. (See Fulton, Scrimshaw, and Snyder.)
Sobey, Albert, Syracuse, N. Y. Combined coupling and clamp. No. 1,038,012; Sept. 10; Gaz. vol. 182; p. 314.
Sobey, William, assignor to J. I. Case Plow Works, Racine, Wis. Planter. No. 1,022,891; Apr. 9; Sp. p. 2422; Gaz. vol. 177; p. 414.
Sobotker, Paul E., Jersey City, and D. H. Ackerman, Newark, N. J. Garment-fitter. No. 1,045,449; Nov. 26; Gaz. vol. 184; p. 927.
Sobra, Marguerite L., Chicago, Ill. Parasol. No. 1,043,263; Nov. 5; Gaz. vol. 184; p. 77.
Sobretto, John, and C. Lovato, San Francisco, Cal. Tooth-pick holder and dispenser. No. 1,034,318; July 30; Gaz. vol. 180; p. 1335.
Societa Anonima Italiana Gio. Ansaldo Armstrong & Co. (See Giolitti, Federico, assignor.)
Societá Anonima Italiana per la Combustione Degli Idrocarburi. (See Conti, Gerolamo, assignor.)
Societa per Brevetti Postali E. Ferroviari Con Sede in Torino. (See Sismondi, Camillo, assignor.)
Société A. Olier & Cie. (See Roussillon, Philippe, assignor.)
Société Alsacienne De Constructions Mecaniques. (See Wenning, Jean C. A., assignor.)
Société Anonyme "Astra." (See Surcouf, Edouard, assignor.)
Société Anonyme Carels Freres *et al.* (See Carels, Gustave, assignor.)
Société Anonyme des Anciens Etablissements Panhard & Levassor. (See Krebs, Arthur C., assignor.)
Societe Anonyme des Automobiles Delaunay-Belleville. (See Barbarou, Marius, assignor.)
Société Anonyme des Automobiles Delaunay-Belleville. (See Delaunay-Belleville, Louis M. G., assignor.)

Alphabetical list of patentees—Continued.

Societe Anonyme Des Etablissements Delaunay-Belleville. (See Delaunay-Belleville, Louis M. G., assignor.)
Societe Anonyme des Manufactures des Glaces et Produits Chimiques de Saint Gobain, Chauny et Circy. (See Robail, Paul C. A., assignor.)
Société Anonyme des Perfectionnements aux Lampes Electriques à Filaments Metalliques. (See Marietti, Silvio, assignor.)
Société Anonyme des Suspensions et Roues Flexibles. (See Rimailho, Emile, assignor.)
Société Anonyme Francaise Dite: Banque du Radium. (See Neveu, Alfred, assignor.)
Societe Anonyme Montbarbon. (See Loziano, Leon, assignor.) (Reissue.)
Société Anonyme pour l'Exploitation des Procedes Westinghouse Leblanc. (See Leblanc, Maurice, assignor.)
Société Chimique Des Usines Du Rhône, Anciennement Gilliard, P. Monnet et Cartier. (See Koetschet and Barbier, assignors.)
Société Chimique Des Usines Du Rhone, anciennement Gilliard, P. Monnet et Cartier. (See Koetschet and Theumann, assignors.)
Société Compagnie Industrielle des Alcools de l'Ardeche. (See Raisin, Victor, assignor.)
Société d'Etude et d'Exploitations des Attelages Automatiques pour Wagons (Brevets Moyet-Bouvier). (See Moyet and Bouvier, assignors.)
Société des Carbures Metalliques. (See Debas, Paul, assignor.)
Societe des Etablissements Gaumont. (See Gaumont, Léon, assignor.)
Société des Etablissements Gaumont. (See Laudet and Gaumont, assignors.)
Société des Etablissements Singrün. (See Singrün, Henri A., assignor.)
Societe des Moteurs Sabathé, The. (See Leflaive, Joseph, assignor.)
Société des Onyx du Sidi-Hamza et des Pyrénées. (See Pourtauborde, Ernest L., assignor.)
Societe dite Etablissements J. J. Carnaud et Forges de Basse-Indre. (See Petin, Hector, assignor.)
Société du Tissage Velox. (See Gratreau, Georges, assignor.)
Société Francis Chapon & Cie. (See Chapon, Francis R. M., assignor.)
Société G. Ducassou & Compagnie. (See Ducassou, Joseph G., assignor.)
Société Générale Des Compteurs De Voitures (Taximetres), The. (See Popp, Richard G., assignor.)
Societe Generale des Nitrures. (See Serpek, Ottokar, assignor.)
Société Harlé & Cie. (See Harlé, Emile, assignor.)
Société Internationale De La Lampe Electrique O. R. (See Dobkevitch, Gaëtan, assignor.)
Société "L'Air Liquide" (Société Anonyme pour l'Etude et l'Exploitations des Procédés Georges Claude). (See Claude, Georges, assignor.)
Société Le Camphre. (See Dubosc, Luttringer, and Denis, assignors.)
Société Maurice et Pierre Collet & Cie. (See Collet, Albert, assignor.)
Societe Ribeyrolles & Cie. (See Henriod, Charles E., assignor.)
Société Sfaello Frères E. Koltschanoff & U. Diamantidi. (See Koltschanoff, Emilian, assignor.)
Société Sohier et Cie. (See Sohier, Louis, assignor.)
Société Universelle d'Explosifs (Anciennement: Bergès, Corbin & Cie.). (See Corbin, Paul E. C., assignor.)
Société Universelle des Appareils Controleurs. (See Soulage, Georges I. F., assignor.)
Société Vedovelli, Priestley et Compagnie. (See Priestley, Charles M. E., assignor.)
Society Compagnie Generale De Phonographes Cinematographes Et Appareils De Precision. (See Ivatts, Ernest A., assignor.)
Society of Chemical Industry in Basle. (See Baselli, Antonio, assignor.)
Society of Chemical Industry in Basle. (See Engi, Gadient, assignor.)
Society of Chemical Industry in Basle. (See Engi and Fröhlich, assignors.)
Society of Chemical Industry in Basle. (See Mayer and Weil, assignors.)
Society of Chemical Industry in Basle. (See Preiswerk and Grether, assignors.)
Society of Chemical Industry in Basle. (See Strauss, David, assignor.)
Soddy, Frederick, Glasgow, Scotland. Making crystals containing mesothorium. No. 1,031,593; July 2; Gaz. vol. 180; p. 258.
Soden, Alfred J., Newark, N. J. Shell. No. 1,023,339; Apr. 16; Sp. p. 3403; Gaz. vol. 177; p. 607.
Soderholm, Carl A., Chicago, Ill. Wrench. No. 1,022,892; Apr. 9; Sp. p. 2428; Gaz. vol. 177; p. 414.
Soderlund, Louis J., Two Harbors, Minn. Rubber heel. No. 1,048,367; Dec. 24; Gaz. vol. 185; p. 986.
Soderstrom, John A., Chicago, Ill. Necktie-fastener. No. 1,035,915; Aug. 20; Gaz. vol. 181; p. 580.
Soderstrom, Victor, Virginia, Minn. Safety device for diamond-drill-rod couplings. No. 1,016,106; Jan. 30; Sp. p. 6623; Gaz. vol. 174; p. 1151.
Soens, Louis H., Mancos, Colo. Whiffletree-bearing. No. 1,024,037; Apr. 23; Sp. p. 4862; Gaz. vol. 177; p. 862.
Sofio, Edward C., Hoboken, N. J., assignor to The Safety Car Heating & Lighting Company. Lamp-fixture. No. 1,045,450; Nov. 26; Gaz. vol. 184; p. 927.
Sofranko, John F., Albia, Iowa. Curtain-bracket. No. 1,039,606; Sept. 24; Gaz. vol. 182; p. 913.
Sohacki, John, and G. W. Cook, Larksville, Pa. Drill-bit. No. 1,026,530; May 14; Sp. p. 3165; Gaz. vol. 178; p. 523.
Sohier, Louis, assignor to Société Sohier et Cie., Champigny-sur-Marne, Seine, France. Producing printed copies of kinematographic films and the like. No. 1,028,296; June 4; Sp. p. 509; Gaz. vol. 179; p. 74.
Sohlman, Ragnar, H. Nordenfelt, and H. Morén, Bofors, Sweden. Fuse for high-explosive shells. No. 1,016,373; Feb. 6; Sp. p. 300; Gaz. vol. 175; p. 47.
Sohm, Alfred L., Los Angeles, Cal., assignor to Sohm Electric Signal & Recording Company, Spokane, Wash. Secondary clock. No. 1,049,004; Dec. 31; Gaz. vol. 185; p. 1245.
Sohm Electric Signal & Recording Company. (See Sohm, Alfred L., assignor.)
Sohst, Otto, assignor to Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany. Trisulfonic acid of the safranin series and making same. No. 1,015,354; Jan. 23; Sp. p. 5003; Gaz. vol. 174; p. 864.
Soistmann, Adolph G., Camden, N. J. Cord-tightening device. No. 1,034,155; July 30; Gaz. vol. 180; p. 1280.
Soistmann, Adolph G., Camden, N. J. Straining-hook. No. 1,039,834; Oct. 1; Gaz. vol. 183; p. 55.
Sokal, Edward, Chicago, Ill. Storage battery. No. 1,034,156; July 30; Gaz. vol. 180; p. 1280.
Sokal, Edward, Chicago, Ill. Storage battery. No. 1,034,157; July 30; Gaz. vol. 180; p. 1280.
Sokolov, Jacob. (See Gibbs and Sokolov.)
Sokolow, Bernhard, New York, N. Y. Corset-fastening. No. 1,047,582; Dec. 17; Gaz. vol. 185; p. 692.
Sokolowski, Ernst, Hamburg, Germany, assignor to E. I. du Pont de Nemours Powder Company, Wilmington, Del. Loading charge for bursting shells for guns, torpedo-heads, maratime mines, and the like. No. 1,015,214; Jan. 16; Sp. p. 4670; Gaz. vol. 174; p. 789.
Sokolowski, Ernst, Hamburg, Germany, assignor to E. I. du Pont de Nemours Powder Company, Wilmington, Del. Projectile-loading for scattering charges. No. 1,015,215; Jan. 16; Sp. p. 4671; Gaz. vol. 174; p. 789.
Sokolowski, Ernst, Hamburg, Germany, assignor to E. I. du Pont de Nemours Powder Company, Wilmington, Del. Explosive charge. No. 1,033,285; July 23; Gaz. vol. 180; p. 960.
Sokolowski, Ernst, Hamburg, Germany, assignor to E. I. du Pont de Nemours Powder Company, Wilmington, Del. Grenade. No. 1,035,486; Aug. 13; Gaz. vol. 181; p. 398.
Sokolowski, Ernst, Hamburg, Germany, assignor to E. I. du Pont de Nemours Powder Company, Wilmington, Del. Placing containers in projectiles. No. 1,039,204; Sept. 24; Gaz. vol. 182; p. 771.
Sokolowski, Ernst, Hamburg, Germany, assignor to E. I. du pont de Nemours Powder Company, Wilmington, Del. Placing containers in projectiles. No. 1,039,459; Sept. 24; Gaz. vol. 182; p. 861.
Sokolowski, Ernst, Hamburg, Germany, assignor to E. I. du Pont de Nemours Powder Company, Wilmington, Del. Detonator for hand-grenades. No. 1,041,894; Oct. 22; Gaz. vol. 183; p. 854.
Sokolowski, Ernst, Hamburg, Germany, assignor to E. I. du Pont de Nemours Powder Company, Wilmington, Del. Pressure-fuse for projectiles, mines, torpedoes, &c. No. 1,042,830; Oct. 29; Gaz. vol. 183; p. 1200.
Sokolowski, Theophile. (See Buszek and Sokolowski.)
Sokolowski, Theophile, and W. Buszek, St. Louis, Mo. Hatpin guard. No. 1,017,817; Feb. 20; Sp. p. 3506; Gaz. vol. 175; p. 616.
Solberg, Frithjof C., Cadogan, Alberta, Canada. Plow attachment. No. 1,034,319; July 30; Gaz. vol. 180; p. 1336.
Soldatencow, Basile, Paris, France. Electromagnetic device. No. 1,034,397; July 30; Gaz. vol. 180; p. 1364.
Soldatencow, Basile, Paris, France. Printing-telegraph. No. 1,034,405; July 30; Gaz. vol. 180; p. 1367.
Solem, Peter A., assignor to J. A. Fay & Egan Company, Cincinnati, Ohio. Grinding-machine. No. 1,016,585; Feb. 6; Sp. p. 815; Gaz. vol. 175; p. 122.
Soley, Frank, assignor to Miller Lock Co., Philadelphia, Pa. Night-latch. No. 1,024,371; Apr. 23; Sp. p. 5560; Gaz. vol. 177; p. 975.
Soley, Frank, assignor to Miller Lock Co., Philadelphia, Pa. Trunk-lock. No. 1,038,981; Sept. 17; Gaz. vol. 182; p. 680.
Solomon, Nettie J., Pekin, Ill. Hen's nest. No. 1,024,372; Apr. 23; Sp. p. 5562; Gaz. vol. 177; p. 975.
Solvay Process Company, The. (See Jordan, Harry W., assignor.)
Solvay Process Company, The. (See Trump and Pennock, assignors.)
Soly, Irenee N. (See Soly, Sabin and I. N.)
Soly, Sabin and I. N., Montreal, Quebec, Canada, assignors to said I. N. Soly. Overseaming-machine. No. 1,043,161; Nov. 5; Gaz. vol. 184; p. 41.

Alphabetical list of patentees—Continued.

Somers, Thomas F., New York, N. Y. Combined waist and hose supporter. No. 1,022,893; Apr. 9; Sp. p. 2430; Gaz. vol. 177; p. 415.
Somerville, Thomas E., Glenellyn, Ill. Bundle-carrier. No. 1,020,722; Mar. 19; Sp. p. 3661; Gaz. vol. 176; p. 644.
Sommer, Harry F. (See Balcom, Charles, assignor.)
Sommer, John L., Newark, N. J., assignor to J. L. Sommer Manufacturing Co. Nail-file. No. 1,030,492; June 25; Sp. p. 5312; Gaz. vol. 179; p. 941.
Sommerfield, William O., East Peoria, and D. W. Morris, Peoria, Ill. Rope-measuring device. No. 1,038,797; Sept. 17; Gaz. vol. 182; p. 618.
Sommerhof, William A., Erie, Pa. Metal pipe-foot with wooden jacket for organ-pipes. No. 1,013,570; Jan. 2; Sp. p. 1036; Gaz. vol. 174; p. 167.
Sommermeyer, August, assignor to R. A. Hartmann, Maschinenfabrik, Berlin, Germany. Apparatus for the treatment of carcasses, slaughter-house waste, and the like. No. 1,046,402; Dec. 3; Gaz. vol. 185; p. 211.
Sommers, Edward P., Portland, Oreg. Pool-ball-rack attachment. No. 1,024,155; Apr. 23; Sp. p. 5135; Gaz. vol. 177; p. 903.
Sommers, Frederick, assignor of two-eighths to A. Raczkowski, Chicago, Ill. Excavating-machine. No. 1,015,850; Jan. 30; Sp. p. 6076; Gaz. vol. 174; p. 1059.
Son, Anthony, assignor to Payne Manufacturing Company, Boston, Mass. Alarm for automobiles, &c. No. 1,037,351; Sept. 3; Gaz. vol. 182; p. 57.
Sondheim, Lewis H., New York, N. Y. Producing mouthpieces on cigarettes. No. 1,013,825; Jan. 2; Sp. p. 1603; Gaz. vol. 174; p. 255.
Sonneborn, Sol S., Brooklyn, N. Y. Transmitter-mouthpiece. No. 1,031,297; July 2; Gaz. vol. 180; p. 158.
Sonnemann, Frederick, Chevy Chase, Md. Dish-drainer. No. 1,037,073; Aug. 27; Gaz. vol. 181; p. 1008.
Sonnenberg, Henry. (See Trexler, George W., assignor.)
Sonney, Christian M., Butte, Mont. Bundle-tying machine. No. 1,047,456; Dec. 17; Gaz. vol. 185; p. 646.
Sönnichsen, Andreas M., Milwaukee, Wis., assignor to Auto Parts Manufacturing Company. Tire-holder. No. 1,018,590; Feb. 27; Sp. p. 5277; Gaz. vol. 175; p. 916.
Sonnichsen, Andreas M., assignor to Auto Parts Manufacturing Company, Milwaukee, Wis. Tire-holder. No. 1,036,020; Aug. 20; Gaz. vol. 181; p. 613.
Sonntag, Lincoln, San Francisco, Cal. Shoe-holder. No. 1,023,887; Apr. 23; Sp. p. 4522; Gaz. vol. 177; p. 810.
Sontheimer, John, Lincoln, Nebr. Hinge for davenports or sofa-beds. No. 1,044,280; Nov. 12; Gaz. vol. 184; p. 462.
Sooy, Mortimer A. (See Van Verst and Sooy.)
Sordi, Arturo, Lugano, Switzerland. Elastic wheel for automobiles and other vehicles. No. 1,048,904; Dec. 31; Gaz. vol. 185; p. 1210.
Sorensen, Carl, Racine, Wis. Hanger for supporting incandescent lamps. No. 1,036,739; Aug. 27; Gaz. vol. 181; p. 896.
Sörensen, Einar F., Stockholm, Sweden. Measuring device. No. 1,040,044; Oct. 1; Gaz. vol. 183; p. 125.
Sorensen, Gunder, St. Paul, Minn. Emergency-brake. No. 1,047,909; Dec. 17; Gaz. vol. 185; p. 806.
Sorensen, John S., assignor to Sprout, Waldron & Company, Muncy, Pa. Attrition-mill. No. 1,021,167; Mar. 26; Sp. p. 4588; Gaz. vol. 176; p. 843.
Sorensen, Niels C., Chicago, Ill. Aeroplane-propelling wheel. No. 1,032,162; July 9; Gaz. vol. 180; p. 494.
Sorensen, Severin N., Minneapolis, Minn. Smut-machine. No. 1,023,888; Apr. 23; Sp. p. 4526; Gaz. vol. 177; p. 810.
Sörensen, Sören, Worland, Wyo. Seeding-machine. No. 1,045,624; Nov. 26; Gaz. vol. 184; p. 990.
Sorenson, Anchor N., Gustave, S. D. Bench-screw. No. 1,020,322; Mar. 12; Sp. p. 2782; Gaz. vol. 176; p. 471.
Sorenson, Edwin, assignor of one-half to L. L. Stevens, Los Angeles, Cal. Folding metallic awning. No. 1,030,493; June 25; Sp. p. 5313; Gaz. vol. 179; p. 941.
Sorg, William A., Minneapolis, Minn. Printing-press. No. 1,044,094; Nov. 12; Gaz. vol. 184; p. 399.
Sorg, William A., Minneapolis, Minn. Printing-machine. No. 1,044,095; Nov. 12; Gaz. vol. 184; p. 399.
Sorg, William A., Minneapolis, Minn. Explosive-engine. No. 1,044,096; Nov. 12; Gaz. vol. 184; p. 400.
Sorg, William A., Minneapolis, Minn., and E. Duscher, La Crosse, Wis., assignors to United States Printograph Company, Minneapolis, Minn. Printing-machine. No. 1,044,097; Nov. 12; Gaz. vol. 184; p. 400.
Sorge, Adolph, St. Joseph, Mich., assignor to American Regenerator Company, New York, N. Y. Steam regeneration. No. 1,015,277; Jan. 16; Sp. p. 4813; Gaz. vol. 174; p. 810.
Sorge, Adolph, St. Joseph, Mich., assignor to American Regenerator Company, New York, N. Y. Steam-regenerator. No. 1,045,904; Dec. 3; Gaz. vol. 185; p. 37.
Sośnierz, John, McKees Rocks, Pa. Wrench. No. 1,040,802; Oct. 8; Gaz. vol. 183; p. 415.
Soss, Joseph, Brooklyn, N Y. Hinge. No. 1,019,096; Mar. 5; Sp. p. 195; Gaz. vol. 176; p. 31.
Soss, Joseph, Brooklyn, N. Y. Hinge. No. 1,030,936; July 2; Gaz. vol. 180; p. 29.
Soss, Joseph, Brooklyn, N. Y. Hinge. No. 1,034,158; July 30; Gaz. vol. 180; p. 1281.
Soth, Frank J., Sedgwick, Kans. Tag-holder. No. 1,017,603; Feb. 13; Sp. p. 2995; Gaz. vol. 175; p. 506.
Sottile, Thomas, Union, N. J. Composition of matter. No. 1,024,156; Apr. 23; Sp. p. 5135; Gaz. vol. 177; p. 903.
Souder, Frank P., assignor of one-half to F. H. Gibson, Bridgeton, N. J. Candy-pulling machine. No. 1,032,958; July 16; Gaz. vol. 180; p. 808.
Souders, Herbert V., Bakersfield, Cal. Vehicle-wheel. No. 1,039,607; Sept. 24; Gaz. vol. 182; p. 913.
Soulage, Georges I. F., assignor to Société Universelle des Appareils Controleurs, Paris, France. Apparatus for issuing or delivering tickets and other articles. No. 1,043,639; Nov. 5; Gaz. vol. 184; p. 211.
Soule, Arthur C., assignor to Soule Reversible Window Co., San Francisco, Cal. Window. No. 1,038,224; Sept. 10; Gaz. vol. 182; p. 383.
Soule, Arthur C., assignor to Soule Reversible Window Co., San Francisco, Cal. Reversible window. No. 1,045,625; Nov. 26; Gaz. vol. 184; p. 991.
Soulé, Charles P. (See Mortimer, Charles H., assignor.)
Soulé, Edward L., San Francisco, Cal. Metal-bending machine. No. 1,018,086; Feb. 20; Sp. p. 4124; Gaz. vol. 175; p. 711.
Soule Reversible Window Co. (See Soule, Arthur C., assignor.)
Soules, George W., *et al.* (See Stuller, William L., assignor.)
Soules, William H., *et al.* (See Stuller, William L., assignor.)
Sourek, Joseph S., Bath township, Summit county, Ohio. Device for handling rope and the like. No. 1,038,013; Sept. 10; Gaz. vol. 182; p. 314.
South, Frank L., Baldhill, Pa. Fieldless motor. No. 1,019,544; Mar. 5; Sp. p. 1222; Gaz. vol. 176; p. 182.
Souther, Benjamin F., Berkeley, Cal. Music-leaf turner. No. 1,015,092; Jan. 16; Sp. p. 4446; Gaz. vol. 174; p. 748.
Souther, Benjamin F., Seattle, Wash. Door-opener. No. 1,026,284; May 14; Sp. p. 2629; Gaz. vol. 178; p. 440.
Souther, John I., Westmont, Pa. Treatment of flue-dust. No. 1,041,363; Oct. 15; Gaz. vol. 183; p. 638.
Southern California Manufacturing Company. (See Austin, Charles R., assignor.)
Southern Electro-Chemical Company, The. (See Peacock, Samuel, assignor.)
Southern Iron and Steel Company. (See Brown, Edmund E., assignor.)
Southern Power Company. (See Naville and Guye, assignors.)
Southern Stamping & Die Works. (See Magee, William J., assignor.)
Southey, Alfred W., Edgware, assignor to Producers Limited, London, England. Means for producing gaseous fuel from liquid hydrocarbons. No. 1,031,881; July 9; Gaz. vol. 180; p. 402.
Southgate, Louis W., Worcester, Mass. Method of and apparatus for amplifying varying electric currents. No. 1,033,629; July 23; Gaz. vol. 180; p. 1073.
Southgate Machinery Co. (See Upham, Burt F., assignor.)
Southwick, James W., Springfield, Ill. Plow. No. 1,031,594; July 2; Gaz. vol. 180; p. 258.
Southwark Foundry and Machine Company. (See Petsche, Gustav B., assignor.)
Southworth, Edward F., Syracuse, N. Y. Etymological chart. No. 1,019,545; Mar. 5; Sp. p. 1224; Gaz. vol. 176; p 182.
Southworth, Harrison H. (See Wolf and Southworth.)
Southworth, Harrison H., and F. W. Wolf, Jr., assignors to Iceless Refrigerator Company, Chicago, Ill. Refrigerating apparatus. No. 1,034,657; Aug. 6; Gaz. vol. 181; p. 84.
Sowards, Charles J., assignor of one-half to H. McBride, Marinette, Wis. Shell construction. No. 1,024,373; Apr. 23; Sp. p. 5563; Gaz. vol. 177; p. 975.
Sowden, Arthur, Shipley, near Bradford, England. Wool and other fiber drying machine. No. 1,032,713; July 16; Gaz. vol. 180; p. 729.
Sowers, George S., Spring Hall, Kans. Wagon-box raincover. No. 1,031,206; July 2; Gaz. vol. 180; p. 127.
Sowers, Marion J., Hallton, Pa. Curtain-pole. No. 1,021,902; Apr. 2; Sp. p. 318; Gaz. vol. 177; p. 53.
Sowers, Robert W., Chattanooga, Tenn. Display-rack. No. 1,033,630; July 23; Gaz. vol. 180; p. 1073.
Sowinski, Frank, Detroit, Mich. Elevator safety device. No. 1,017,332; Feb. 13; Sp. p. 2441; Gaz. vol. 175; p. 415.
Spacesaving Appliance Company. (See Kibby, William J., assignor.)
Spackman, Henry S., Ardmore, Pa., and E. W. Lazell, Wilmington, Del., assignors, by mesne assignments, to H. S. Spackman, Ardmore, Pa. Cementitious material. No. 1,029,953; June 18; Sp. p. 4112; Gaz. vol. 179; p. 714.
Spackman, Henry S., Ardmore, Pa., and E. W. Lazell, Wilmington, Del.; said Lazell assignor to said Spackman. Cementitious material. No. 1,029,954; June 18; Sp. p. 4120; Gaz. vol. 179; p. 714.
Spahn, George J., Baltimore, Md. Die for making bottle-caps. No. 1,041,691; Oct. 15; Gaz. vol. 183; p. 745.

Alphabetical list of patentees—Continued.

Spahn, Michael, and I. Concoff, Portland, Oreg. Electric dumb-waiter control. No. 1,033,286; July 23; Gaz. vol. 180; p. 960.
Spain, William. (See Jefferies and Spain.)
Spalding, George, Cleveland, Ohio, assignor to Spalding Plow Company, Pittsburgh, Pa. Tilling-machine. No. 1,015,648; Jan. 23; Sp. p. 5649; Gaz. vol. 174; p. 965.
Spalding, Henry. (See Parsons and Spalding.)
Spalding, James F., Kansas City, Mo. Bow-tie shield. No. 1,021,078; Mar. 26; Sp. p. 4392; Gaz. vol. 176; p. 815.
Spalding Plow Company. (See Spalding, George, assignor.)
Spalteholz, Karl W., Leipzig, Germany. Manufacture of transparent and translucent bodies. No. 1,021,952; Apr. 2; Sp. p. 430; Gaz. vol. 177; p. 69.
Spaney, Alfred, Piermont, and J. W. Mayer, New York, N. Y.; said Spaney assignor to said Mayer. Lorgnette. No. 1,031,298; July 2; Gaz. vol. 180; p. 158.
Spang and Company. (See Wise, James E., assignor.)
Spang, Joseph P. (See Cappio, Jildo, assignor.)
Spangenberg, Albert. (See Keppeler and Spangenberg.)
Spangenberg, John M. L., Forshaga, Sweden. Sorter for paper-pulp and the like. No. 1,042,724; Oct. 29; Gaz. vol. 183; p. 1163.
Spangler, Arthur B., Avery Island, La. Culinary or kitchen utensil. No. 1,023,226; Apr. 16; Sp. p. 3176; Gaz. vol. 177; p. 568.
Spangler, James M., Canton, assignor to The Hoover Suction Sweeper Company, New Berlin, Ohio. Carpet sweeper and cleaner. No. 1,021,731; Mar. 26; Sp. p. 5763; Gaz. vol. 176; p. 1035.
Spangler, Leonard. (See Crull and Spangler.)
Spangler, Leonard, *et al.* (See Crull and Spangler, assignors.)
Spangler, Walter J., Philadelphia, assignor of one-half to R. M. Elliot, Bryn Mawr, and one-fourth to R. Thayer, Philadelphia, Pa. Electric-motor-driven truck. No. 1,027,629; May 28; Sp. p. 5559; Gaz. vol. 178; p. 971.
Spangler, Walter J., assignor of one-half to R. Thayer, Philadelphia, and one-fourth to R. M. Elliot, Bryn Mawr, Pa. Driving-gear for electrically-actuated trucks or rail-cars. No. 1,031,882; July 9; Gaz. vol. 180; p. 402.
Sparks, Charles H., London, England. Gutter-bracket. No. 1,036,924; Aug. 27; Gaz. vol. 181; p. 957.
Sparks, Frank, *et al.* (See Blom, Pehr M., assignor.)
Sparks, Fred C., New Sharon, Iowa. Match-holder. No. 1,021,273; Mar. 26; Sp. p. 4820; Gaz. vol. 176; p. 879.
Sparks, James L., and E. R. Eddins, assignors to Automatic Vacuum Pump Company, St. Louis, Mo. Steam-heating system. No. 1,013,328; Jan. 2; Sp. p. 531; Gaz. vol. 174; p. 84.
Sparks, James M. (See McBride, Charles C., assignor.)
Sparks, John C., Hartsville, S. C. Fertilizer-distributer. No. 1,032,959; July 16; Gaz. vol. 180; p. 808.
Sparks, John H., Camden, N. J. Wheel. No. 1,049,162; Dec. 31; Gaz. vol. 185; p. 1298.
Sparks, Laban, administrator. (See Perky, Henry D.)
Sparks, Mirabeau E., assignor of two-tenths to H. McConathy, Louisville, Ky. Mileage-book. No. 1,025,595; May 7; Sp. p. 1096; Gaz. vol. 178; p. 170.
Sparks, Oliver F. (See Sparks, William E. and O. F.)
Sparks, Thomas H., Wichita, Kans. Apparatus for heading Kafir corn, &c. No. 1,032,088; July 9; Gaz. vol. 180; p. 469.
Sparks, Thomas H., Wichita, Kans. Apparatus for cutting Kafir corn, cane, &c. No. 1,033,631; July 23; Gaz. vol. 180; p. 1073.
Sparks, William, Jackson, Mich. Conductor-coupling. No. 1,034,159; July 30; Gaz. vol. 180; p. 1281.
Sparks, William, Jackson, Mich. Horn. No. 1,048,466; Dec. 24; Gaz. vol. 185; p. 1020.
Sparks, William E. and O. F., assignors to Sargent & Company, New Haven, Conn. Lock. No. 1,040,245; Oct. 1; Gaz. vol. 183; p. 192.
Sparling, Christian S., Moline, Ill. Flushing apparatus. No. 1,025,166; May 7; Sp. p. 123; Gaz. vol. 178; p. 21.
Sparling, Sylvester, Evanston, Ill. Automatic fire-extinguishing system. No. 1,014,185; Jan. 9; Sp. p. 2423; Gaz. vol. 174; p. 407.
Sparr, John C., and E. A. Marchant, Memphis, Tenn. Fence-post. No. 1,018,527; Feb. 27; Sp. p. 5132; Gaz. vol. 175; p. 894.
Spaulding, Henry F., Canastota, S. D. Planter. No. 1,042,617; Oct. 29; Gaz. vol. 183; p. 1126.
Spaulding, Morton M., *et al.* (See Sharts, Trueman P., assignor.)
Spaulding, Roy L., Helena, Mont. Sterilizer. No. 1,028,297; June 4; Sp. p. 510; Gaz. vol. 179; p. 75.
Spaulding & Sons Company, J. (See Lancey, Roswell A., assignor.)
Spaulding & Sons Company, J. (See Lougee, William S., assignor.)
Speakman, Willard A., Wilmington, Del. Washbasin-fixture. No. 1,036,021; Aug. 20; Gaz. vol. 181; p. 614.
Speakman, Willard A., Wilmington, Del. Lavatory-fixture. No. 1,036,022; Aug. 20; Gaz. vol. 181; p. 614.
Spear, Fannie G., New York, N. Y. Egg-beater. No. 1,019,546; Mar. 5; Sp. p. 1224; Gaz. vol. 176; p. 182.
Spear, Furman D., assignor to Armspear Manufacturing Company, New York, N. Y. Signal-lamp. No. 1,018,016; Feb. 20; Sp. p. 3961; Gaz. vol. 175; p. 686.
Spear, Furman D., assignor to Armspear Manufacturing Company, New York, N. Y. Convertible lamp. No. 1,018,017; Feb. 20; Sp. p. 3963; Gaz. vol. 175; p. 686.
Spear, James M., Washington, D. C., assignor to The Standard Stamping Company. Globe-holder. No. 1,033,483; July 23; Gaz. vol. 180; p. 1024.
Spear, Lorenza D. (See Hickle and Spear.)
Spear, Madison A., Napa, Cal. Cleanable water-heater grid. No. 1,015,911; Jan. 30; Sp. p. 6202; Gaz. vol. 174; p. 1081.
Spears, Frank A., Chicago, Ill. Clothes-boiler. No. 1,019,198; Mar. 5; Sp. p. 427; Gaz. vol. 176; p. 67.
Specht, Hans C., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electric measuring instrument. No. 1,046,883; Dec. 10; Gaz. vol. 185; p. 417.
Specht, John, New York, N. Y., assignor to H. B. Hardenburg and Company. Purse. No. 1,022,976; Apr. 9; Sp. p. 2615; Gaz. vol. 177; p. 445.
Specialty Shoe Machinery & Tool Company. (See Johnson and Crowe, assignors.)
Speck, William F., Evansville, Ind. Manufacturing candy and candy produced thereby. No. 1,025,326; May 7; Sp. p. 492; Gaz. vol. 178; p. 76.
Specketer, Heinrich, and W. Hofmann, Griesheim-on-the-Main, assignors to Chemische Fabrik Griesheim-Elektron, Frankfort-on-the-Main, Germany. Manufacture of alkali metals. No. 1,034,320; July 30; Gaz. vol. 180; p. 1336.
Speed, James, assignor to Mittineague Paper Company, Mittineague, Mass. Roll for paper-surface-finishing machines. No. 1,038,505; Sept. 10; Gaz. vol. 182; p. 481.
Speed, James, and A. Whitton, West Springfield, Mass. Watermarking apparatus for paper-making machines. No. 1,018,849; Feb. 27; Sp. p. 5807; Gaz. vol. 175; p. 1003.
Speer, George F., Fort Worth, Tex. Rock-drill. No. 1,048,434; Dec. 24; Gaz. vol. 185; p. 1008.
Speer, Jhugh C., Marked Tree, Ark. Non-refillable bottle. No. 1,046,670; Dec. 10; Gaz. vol. 185; p. 343.
Speer, John S., *et al.* (See Bear, William L., assignor.)
Speer, Louis M., Pacific, Mo., assignor of one-half to N. Q. Speer, Berkeley Springs, W. Va. Sand-washing apparatus. No. 1,021,009; Mar. 26; Sp. p. 4260; Gaz. vol. 176; p. 791.
Speer, Noah Q. (See Speer, Louis M., assignor.)
Speer, Robert G., St. Louis, Mo. Smoke-consumer. No. 1,039,205; Sept. 24; Gaz. vol. 182; p. 771.
Speer, Robert G., assignor to The Robert G. Speer Corporation, St. Louis, Mo. Smoke-consuming furnace. No. 1,015,746; Jan. 23; Sp. p. 5852; Gaz. vol. 174; p. 997.
Speer, Victor V. (See Voorhees and Spear.)
Speice, Wilbert B., Payne, Ohio. Automobile-starter. No. 1,028,624; June 4; Sp. p. 1214; Gaz. vol. 179; p. 186.
Speidel, Eugen, assignor to Firm of F. Speidel, Pforzheim, Germany. Soldering chain-links. No. 1,017,818; Feb. 20; Sp. p. 3508; Gaz. vol. 175; p. 616.
Speidel, Firm of Friedrich. (See Speidel, Eugen, assignor.)
Speiden, Eben C., assignor to International Acheson Graphite Company, Niagara Falls, N. Y. Composite electrode. No. 1,032,250; July 9; Gaz. vol. 180; p. 525.
Speiden, Eben C., assignor to International Acheson Graphite Company, Niagara Falls, N. Y. Electrode. No. 1,033,205; July 23; Gaz. vol. 180; p. 932.
Speight, Crittenden R., Burgaw, N. C. Log-turning machine. No. 1,033,206; July 23; Gaz. vol. 180; p. 932.
Speirs, Albert S., assignor to M. E. Speirs, New York, N. Y. Pipe-cover. No. 1,016,792; Feb. 6; Sp. p. 1251; Gaz. vol. 175; p. 193.
Speirs, Marcia E. (See Speirs, Albert S., assignor.)
Speller, Frank N. (See Saunders and Speller.)
Spellmeyer, Ernst H., Jr. (See Heckel, Otto A., assignor.)
Spence, James F., Washington, D. C. Portable bath-mat. No. 1,016,374; Feb. 6; Sp. p. 302; Gaz. vol. 175; p. 48.
Spence, James H., administrator. (See Barton, Delbert E.)
Spence, Viva E. (See Spence, William H. and V. E.)
Spence, William H. and V. E., Underwood, Ind. Scissors. No. 1,024,655; Apr. 30; Sp. p. 6292; Gaz. vol. 177; p. 1108.
Spencer, Arthur E., San Francisco, and F. C. Thomas, Mill Valley, Cal. Means for automatically arresting talking-machines. (Reissue.) No. 13,453; July 30; Gaz. vol. 180; p. 1372.
Spencer, Byron J., Fort Stevens, Oreg. Vessel-raising device. No. 1,025,930; May 7; Sp. p. 1832; Gaz. vol. 178; p. 283.
Spencer, Christopher M., Hartford, Conn. Multiple-spindle screw-machine. No. 1,044,701; Nov. 19; Gaz. vol. 184; p. 639.
Spencer, Christopher M., assignor to The Universal Machine Screw Company, Hartford, Conn. Machine for tapping couplings. No. 1,045,208; Nov. 26; Gaz. vol. 184; p. 842.
Spencer, Cordelia, Loyalton, Cal. Lid for cooking utensils. No. 1,017,183; Feb. 13; Sp. p. 2125; Gaz. vol. 175; p. 363.
Spencer, Edward E., New York, N. Y. Pot-charger for linotype-machines. No. 1,032,306; July 9; Gaz. vol. 180; p. 544.

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Spencer, Francis E., Dover, assignor of one-half to S. Gilchrist, Kiel, Okla. Draft-equalizer. No. 1,026,130; May 14; Sp. p. 2301; Gaz. vol. 178; p. 388.
Spencer, Frank C., Chicago, Ill. Safety device for punch-presses, &c. No. 1,043,876; Nov. 12; Gaz. vol. 184; p. 322.
Spencer, Frank E., Thomburg, Pa. Nut-lock. No. 1,019,097; Mar. 5; Sp. p. 197; Gaz. vol. 176; p. 32.
Spencer, George F. (See Carlstedt, John A., assignor.)
Spencer, George F. (See Meyer, Julius, assignor.)
Spencer, George F. (See Spencer, William H., assignor.)
Spencer, George N., Forest Grove, Oreg. Aeroplane. No. 1,023,534; Apr. 16; Sp. p. 3778; Gaz. vol. 177; p. 668.
Spencer Heater Company. (See Boies and Waddell, assignors.)
Spencer, Henry W., London, England. Feed-water regulator for steam-boilers. No. 1,047,320; Dec. 17; Gaz. vol. 185; p. 600.
Spencer, Ira H., assignor to The Spencer Turbine Cleaner Company, Hartford, Conn. Cleaning-tool. No. 1,016,649; Feb. 6; Sp. p. 956; Gaz. vol. 175; p. 144.
Spencer, Ira H., assignor to The Spencer Turbine Cleaner Company, Hartford, Conn. Separator. No. 1,016,972; Feb. 13; Sp. p. 1649; Gaz. vol. 175; p. 290.
Spencer, Ira H., assignor to The Spencer Turbine Cleaner Company, Hartford, Conn. Cleaning-tool. No. 1,021,010; Mar. 26; Sp. p. 4261; Gaz. vol. 176; p. 791.
Spencer, Ira H., assignor to The Spencer Turbine Cleaner Company, Hartford, Conn. Cleaning apparatus. No. 1,022,114; Apr. 2; Sp. p. 766; Gaz. vol. 177; p. 122.
Spencer, Ira H., assignor to The Spencer Turbine Cleaner Company, Hartford, Conn. Valve. No. 1,031,391; July 2; Gaz. vol. 180; p. 190.
Spencer, Ira H., assignor to The Spencer Turbine Cleaner Company, Hartford, Conn. Cleaning device. No. 1,034,040; July 30; Gaz. vol. 180; p. 1241.
Spencer, Ira H., assignor to The Spencer Turbine Cleaner Company, Hartford, Conn. Dust extractor and separator. No. 1,043,264; Nov. 5; Gaz. vol. 184; p. 77.
Spencer, Ira H., assignor to The Spencer Turbine Cleaner Company, Hartford, Conn. Means for clearing the pipes of pneumatic systems. No. 1,046,884; Dec. 10; Gaz. vol. 185; p. 417.
Spencer, Ira H., assignor to The Organ Power Company, Hartford, Conn. Casing for organ-blowers. No. 1,044,098; Nov. 12; Gaz. vol. 184; p. 401.
Spencer, Joseph H., Galena, Kans. Bed attachment. No. 1,044,936; Nov. 19; Gaz. vol. 184; p. 719.
Spencer Lens Company. (See Ott, Harvey N., assignor.)
Spencer Lens Company. (See Ott and Leuchsenring, assignors.)
Spencer Turbine Cleaner Company, The. (See Spencer, Ira H., assignor.)
Spencer, William B., Chicago, Ill. Animal-trap. No. 1,043,162; Nov. 5; Gaz. vol. 184; p. 41.
Spencer, William H., Waterville, Me., assignor to Draper Company, Hopedale, Mass. Warp stop-motion for looms. No. 1,015,593; Jan. 23; Sp. p. 5529; Gaz. vol. 174; p. 946.
Spencer, William H., New York, N. Y., assignor to G. F. Spencer, Newark, N. J. Illuminating device. No. 1,034,041; July 30; Gaz. vol. 180; p. 1241.
Spenlé, John, Salford, England. Apparatus for drying proofed and like fabrics or materials. No. 1,018,992; Feb. 27; Sp. p. 6127; Gaz. vol. 175; p. 1053.
Spensley, Jacob W. (See Ormandy and Spensley.)
Sperberg, Edward H., Chicago, Ill. Stamp-vending machine. No. 1,044,281; Nov. 12; Gaz. vol. 184; p. 463.
Sperberg, Edward H., assignor to O. F. Foss, Chicago, Ill. Moving-picture machine. No. 1,025,887; May 7; Sp. p. 1744; Gaz. vol. 178; p. 269.
Sperling, John, Cleveland, Ohio. Ice-creeper. No. 1,047,716; Dec. 17; Gaz. vol. 185; p. 740.
Spero, Harry. (See Bower and Spero.)
Sperry, Elmer A., Cleveland, Ohio. Valve. No. 1,018,591; Feb. 27; Sp. p. 5278; Gaz. vol. 175; p. 917.
Sperry, Elmer A., Cleveland, Ohio. Centrifugal machine. No. 1,048,905; Dec. 31; Gaz. vol. 185; p. 1211.
Sperry, Evelyn P., Oak Park, Ill. Beater for beating and aerating eggs, cream, batter, and other materials. No. 1,036,159; Aug. 20; Gaz. vol. 181; p. 665.
Sperry, Herbert B., assignor to Dain Manufacturing Company of Iowa, Ottumwa, Iowa. Measuring-wheel for baling-presses. No. 1,028,974; June 11; Sp. p. 1965; Gaz. vol. 179; p. 339.
Spery, Charles F., Chicago, Ill., assignor to American Art Works, Coshocton, Ohio. Advertising display-sign. No. 1,026,531; May 14; Sp. p. 3166; Gaz. vol. 178; p. 523.
Sphinx Motor Company. (See Reno and Bois, assignors.)
Spicer, Vibe K., and V. I. Smart, Montreal, Quebec, Canada. Train-staff system. No. 1,022,605; Apr. 9; Sp. p. 1803; Gaz. vol. 177; p. 316.
Spiegel, Emil, Warnsdorf, Austria-Hungary. Apparatus for making leather tires. No. 1,037,352; Sept. 3; Gaz. vol. 182; p. 53.
Spiegel, Paul, New York, N. Y. Grinding attachment for lathes. No. 1,047,717; Dec. 17; Gaz. vol. 185; p. 740.
Spiegel, William G. (See Oppenheimer and Spiegel.)
Spiegel, William G., New York, N. Y. Apparatus for aerial signaling and similar purposes. No. 1,038,506; Sept. 10; Gaz. vol. 182; p. 481.
Spiegel, William G., assignor to F. Oppenheimer, New York, N. Y. Burglar-alarm. No. 1,030,138; June 18; Sp. p. 4497; Gaz. vol. 179; p. 776.
Spiegelberg, William S. (See Severson, Myron L., assignor.)
Spieker, Heinrich, Strielau, Kr. Pleschen, Germany. Potato-planter. No. 1,035,255; Aug. 13; Gaz. vol. 181; p. 316.
Spielmann, Josef, assignor of one-tenth to J. Kondor, Versailles, Pa. Metallic tie and rail-fastener. No. 1,047,583; Dec. 17; Gaz. vol. 185; p. 693.
Spiess, Georg, Leipzig-Ruednitz, Germany. Device for use in cleaning or stripping paper sheets in sorting or similar machines. No. 1,039,608; Sept. 24; Gaz. vol. 182; p. 913.
Spiess, Georg, Leipzig, Anger-Crottendorf, Germany. Mechanism for driving a part at variable speed. No. 1,046,504; Dec. 10; Gaz. vol. 185; p. 285.
Spiker, John M., Aurora, Ill. Time-book. No. 1,038,452; Sept. 10; Gaz. vol. 182; p. 464.
Spikes, John C., Trinidad, Colo. Stage-setting for theaters. No. 1,027,922; May 28; Sp. p. 6233; Gaz. vol. 178; p. 1070.
Spikes, Woodard N., Winnfield, La. Rail-joint. No. 1,033,632; July 23; Gaz. vol. 180; p. 1074.
Spilka, Charles, New York, N. Y. Air-craft. No. 1,045,337; Nov. 26; Gaz. vol. 184; p. 887.
Spillane, Thomas, New Bethlehem, Pa. Apparatus for drawing glass. No. 1,031,883; July 9; Gaz. vol. 180; p. 402.
Spilman, Peter, *et al.* (See Sletto, Oscar K., assignor.)
Spindler, Emil. (See Werner, Paul, assignor.)
Spindler, Perry T., assignor to American Street and Station Indicator Company, Chicago, Ill. Operating device for street-indicators. No. 1,029,770; June 18; Sp. p. 3693; Gaz. vol. 179; p. 651.
Spink, Edward J., assignor of one-third to J. A. Miller and one-third to R. S. Humphrey, Council Bluffs, Iowa. Burner. No. 1,025,025; Apr. 30; Sp. p. 7045; Gaz. vol. 177; p. 1238.
Spink, Edward J., assignor of one-third to J. A. Miller and one-third to R. S. Humphrey, Council Bluffs, Iowa. Pipe-wrench. No. 1,038,671; Sept. 17; Gaz. vol. 182; p. 573.
Spink, William, and J. M. Baltz, Philadelphia, Pa. Twisting-machine. No. 1,030,937; July 2; Gaz. vol. 180; p. 30.
Spinnenweber, Ferdinand. (See Flowers, Charles P., assignor.)
Spinnerei & Weberei Steinen Actien-Gesellschaft. (See Koechlin, Albert G., assignor.)
Spiral Radiator Company. (See Olson and Grant, assignors.)
Spirella Company, The. (See Beeman, Marcus M., assignor.)
Spirella Company, The. (See Beeman and Kitchen, assignors.)
Spirella Company, The. (See Kitchen, John F., assignor.)
Spirella Company, The. (See Leffel, Clarence E., assignor.)
Spirella Company, The. (See Welsh, James M., assignor.)
Spires, Elmer, Oklahoma, Okla. Wagon-brake. No. 1,020,851; Mar. 19; Sp. p. 3944; Gaz. vol. 176; p. 687.
Spirikowicz, Mateusz, Cicero, Ill. Animal-trap. No. 1,032,089; July 9; Gaz. vol. 180; p. 469.
Spirikowicz, Mateusz, Cicero, Ill. Lock. No. 1,032,631; July 16; Gaz. vol. 180; p. 698.
Spiro, Charles, New York, N. Y. Ribbon-spool mechanism for type-writers. No. 1,041,184; Oct. 15; Gaz. vol. 183; p. 577.
Spiro, Louis, Clarksburg, W. Va. Bracing device for suit-cases. No. 1,019,547; Mar. 5; Sp. p. 1226; Gaz. vol. 176; p. 183.
Spitz, Alexander H., and A. Kessler, Chicago, Ill. Boot and shoe. No. 1,041,185; Oct. 15; Gaz. vol. 183; p. 577.
Spitz, Gustav, Brünn, Austria-Hungary, assignor to Goldschmidt Detinning Company, New York, N. Y. Purifying alkali stannates. No. 1,041,895; Oct. 22; Gaz. vol. 183; p. 854.
Spitzenberg, Marion E., trustee. (See Spitzenberg, Philip, assignor.)
Spitzenberg, Philip, New York, N. Y. Siphon-head. No. 1,037,680; Sept. 3; Gaz. vol. 182; p. 170.
Spitzenberg, Philip, New York, assignor to M. E. Spitzenberg, trustee, Brooklyn, N. Y. Siphon-filler. No. 1,041,364; Oct. 15; Gaz. vol. 183; p. 638.
Spitzer, Karl, Vienna, Austria-Hungary. Suction device for dust-laden air. No. 1,019,548; Mar. 5; Sp. p. 1227; Gaz. vol. 176; p. 183.
Splettstosser, Fritz, Stryker, Tex. Automatic safety-burner. No. 1,045,755; Nov. 26; Gaz. vol. 184; p. 1035.
Splitdorf, Charles F., New York, N. Y., assignor, by mesne assignments, to Splitdorf Electrical Co., Newark, N. J. Make-and-break device. No. 1,037,074; Aug. 27; Gaz. vol. 181; p. 1008.
Splitdorf Electrical Co. (See Hubert, Theodore, assignor.)

Alphabetical list of patentees—Continued.

Splitdorf Electrical Co. (See Splitdorf, Charles F., assignor.)
Splitdorf Electrical Co. (See Wilson, James M., assignor.)
Splittgerber, Wilhelm, assignor to Clintonville Baler Company, Clintonville, Wis. Baling-press. No. 1,020,626; Mar. 19; Sp. p. 3449; Gaz. vol. 176; p. 610.
Spofford, Christopher S., and F. W. Jonas, assignors to Sturgis Steel Go-Cart Company, Sturgis, Mich. Wheel-attaching device. No. 1,040,803; Oct. 8; Gaz. vol. 183; p. 416.
Spofford, Christopher S., and F. W. Jonas, assignors to Sturgis Steel Go-Cart Co., Sturgis, Mich. Collapsible carriage. No. 1,047,322; Dec. 17; Gaz. vol. 185; p. 601.
Spofford, Christopher S., and H. H. Herrmann, assignors to Sturgis Steel Go-Cart Company, Sturgis, Mich. Collapsible carriage. No. 1,047,321; Dec. 17; Gaz. vol. 185; p. 600.
Spofford, Christopher S., F. W. Jonas, and J. W. Bennett, assignors to Sturgis Steel Go-Cart Co., Sturgis, Mich. Child's carriage. No. 1,041,186; Oct. 15; Gaz. vol. 183; p. 577.
Spohrer, Gregory J., Franklin, Pa. Air-pump. No. 1,027,923; May 28; Sp. p. 6235; Gaz. vol. 178; p. 1070.
Spokes, George T. S. (See Lathrop and Spokes.)
Spollin, Louis V., Los Angeles, Cal. Registry-receipt for mail-matter. No. 1,016,234; Jan. 30; Sp. p. 6858; Gaz. vol. 174; p. 1191.
Sponable, George W., assignor to The Brown-Lipe Gear Company, Syracuse, N. Y. Chuck for holding and centering gears. No. 1,021,011; Mar. 26; Sp. p. 4262; Gaz. vol. 176; p. 791.
Sponsel, Charles W., Hartford, assignor, by mesne assignments, to The Noiseless Typewriter Company, Middletown, Conn. Type-writing machine. No. 1,046,229; Dec. 3; Gaz. vol. 185; p. 150.
Spooner, Albert E., Renfrew, Ontario, Canada. Gravity door-lock. No. 1,047,847; Dec. 17; Gaz. vol. 185; p. 785.
Spooner, Allen N., New York, N. Y. Hydraulic boring and well-driving apparatus. No. 1,036,364; Aug. 20; Gaz. vol. 181; p. 737.
Sporleder, Michael, Colorado City, Colo., and W. Sporleder, Okemah, Okla. Balance-wheel. No. 1,028,794; June 4; Sp. p. 1557; Gaz. vol. 179; p. 243.
Sporleder, William. (See Sporleder, Michael and W.)
Spotts, James C. (See Carter, Jones, and Spotts.)
Spotz, Chester A., York, Pa. Meat-slicing machine. No. 1,042,165; Oct. 22; Gaz. vol. 183; p. 942.
Spousta, Wenslow C., Salina, Kans. Metallic railway-tie. No. 1,034,374; July 30; Gaz. vol. 180; p. 1357.
Sprado, Carl G., assignor to Allis-Chalmers Company, Milwaukee, Wis. Discharge-valve. No. 1,029,726; June 18; Sp. p. 3608; Gaz. vol. 179; p. 636.
Spragg, Henry. (See McGugan and Spragg.)
Sprague, Arthur W., La Grange, and T. E. Mulroyan, De Kalb, Ill., assignors to The American Steel and Wire Company of New Jersey, Hoboken, N. J. Gate-latch. No. 1,024,705; Apr. 30; Sp. p. 6392; Gaz. vol. 177; p. 1126.
Sprague Canning Machinery Company. (See Haight, James P., assignor.)
Sprague, Clarence W., Philadelphia, Pa. Holder for electric lights, telephones, and the like. No. 1,025,026; Apr. 30; Sp. p. 7048; Gaz. vol. 177; p. 1238.
Sprague, Edmund C., and A. M. Williamson, assignors to International Acheson Graphite Company, Niagara Falls, N. Y. Treating carbon articles of low initial conductivity. No. 1,030,620; June 25; Sp. p. 5745; Gaz. vol. 179; p. 989.
Sprague, Elizabeth, Minneapolis, Minn. Catamenial napkin. No. 1,022,894; Apr. 9; Sp. p. 2431; Gaz. vol. 177; p. 415.
Sprague, Horace M., Denver, Colo. Rat-trap. No. 1,038,672; Sept. 17; Gaz. vol. 182; p. 573.
Sprague, Newton C., Minneapolis, Minn. Oil and gas cooker. No. 1,023,768; Apr. 16; Sp. p. 4218; Gaz. vol. 177; p. 741.
Spratt, Charles, and F. J. Shenton, London, England. Amusement and strength-testing apparatus. No. 1,039,611; Sept. 24; Gaz. vol. 182; p. 914.
Spratt, George A., assignor of one-half to B. F. Young, Coatesville, Pa. Dispensing apparatus. No. 1,037,681; Sept. 3; Gaz. vol. 182; p. 170.
Spratt, Joseph D., Wolf Creek, Tenn. Rail-brace. No. 1,039,609; Sept. 24; Gaz. vol. 182; p. 913.
Spray, Charles H., Indianapolis, Ind. Saw-clamp. No. 1,042,049; Oct. 22; Gaz. vol. 183; p. 904.
Spreckels, Claus, *et al.* (See Young, Henry, assignor.)
Spreckels Sugar Company. (See Moore, Ralph H., assignor.)
Sprenger, Louis, assignor to Diamond Power Specialty Co., Detroit, Mich. Blower for boilers. No. 1,026,060; May 14; Sp. p. 2132; Gaz. vol. 178; p. 362.
Sprengle, Henry C., Cleveland, Ohio. Metal-bending machine. No. 1,043,877; Nov. 12; Gaz. vol. 184; p. 323.
Spreyer, George S., Canon City, Colo. Attachment for vehicle-springs. No. 1,015,649; Jan. 23; Sp. p. 5651; Gaz. vol. 174; p. 966.
Spring, Frank J., assignor to Reading Hardware Company, Reading, Pa. Swivel-knob spindle. No. 1,015,765; Jan. 23; Sp. p. 5891; Gaz. vol. 174; p. 1004.
Spring Gate Hinge Company. (See Nolte, Willis C., assignor.)
Spring, George A., Columbus, Ohio. Door-bolt-actuated circuit-closer. No. 1,044,099; Nov. 12; Gaz. vol. 184; p. 401.
Springer, Charles L., Uniontown, Pa. Type-writer. No. 1,043,265; Nov. 5; Gaz. vol. 184; p. 78.
Springer, Henry J., Edwardsville, Ill. Seed-potato cutter. No. 1,032,632; July 16; Gaz. vol. 180; p. 699.
Springer, John, Trenton Junction, N. J. Automobile. No. 1,043,163; Nov. 5; Gaz. vol. 184; p. 42.
Springer, Louis S. (See Bunting, Muldoon, and Springer.)
Springer, William C., Jr. (See Utterback, Springer, and Galbraith.)
Springfield Knitting Co. (See Carter, William H., assignor.)
Springfield Metallic Casket Company, The. (See Hiser, Charles H., assignor.)
Springfield Plant-Bed Steaming Company. (See Johnson, John H. L., assignor.)
Springfield Sanitary Drinking Fountain Company. (See Hall, John, Jr., assignor.)
Springhorn, Nellie M., Blue Point, N. Y. Stove-polishing mitten. No. 1,046,230; Dec. 3; Gaz. vol. 185; p. 150.
Springle, Robert E., Camden, Ala. Stop device for gravity-motors. No. 1,027,219; May 21; Sp. p. 4733; Gaz. vol. 178; p. 795.
Springstead, Abram B., Kalamazoo, Mich. Heavier-than-air flying-machine. No. 1,037,353; Sept. 3; Gaz. vol. 182; p. 58.
Springsteen, Nelson E., Royal Oak, assignor of one-half to J. H. Moore, Detroit, Mich. Inking mechanism. No. 1,030,026; June 18; Sp. p. 4260; Gaz. vol. 179; p. 738.
Sprink, Isaac W., Oak Park, assignor to Armstrong Brothers Tool Company, Chicago, Ill. Boring-bar. No. 1,024,656; Apr. 30; Sp. p. 6293; Gaz. vol. 177; p. 1109.
Sprinkle, John J., assignor of one-half to N. W. Waddle, Webb City, Mo. Paper-roll printer and holder. No. 1,038,673; Sept. 17; Gaz. vol. 182; p. 574.
Sprong, Severn D., and W. E. McCoy, assignors of one-third to F. W. Smith, New York, N. Y. Alternating-current-distributing system. No. 1,035,394; Aug. 13; Gaz. vol. 181; p. 367.
Sprong, Severn D., and W. E. McCoy, assignors of one-third to F. W. Smith, New York, N. Y. Conduit for high-potential conductors. No. 1,043,164; Nov. 5; Gaz. vol. 184; p. 43.
Sprong, Severn D., and W. E. McCoy, assignors of one-third to F. W. Smith, New York, N. Y. Conduit for high-potential conductors. No. 1,043,165; Nov. 5; Gaz. vol. 184; p. 43.
Spröngerts, Edward. (See Thron, Spröngerts, and Freund.)
Sprout, Waldron & Company. (See Snyder, Simon, assignor.)
Sprout, Waldron & Company. (See Sorensen, John S., assignor.)
Sprye, William M. (See Muther and Sprye.)
Spühl, Heinrich, St. Gallen, Switzerland. Trimming-machine. No. 1,046,671; Dec. 10; Gaz. vol. 185; p. 343.
Spuhr, John B., Denver, Colo. Pivoted support for vehicle-wheels. No. 1,020,723; Mar. 19; Sp. p. 3663; Gaz. vol. 176; p. 644.
Spurgin, Richard A., London, England, assignor to The Hammond Typewriter Co. Type-writer. No. 1,015,594; Jan. 23; Sp. p. 5531; Gaz. vol. 174; p. 946.
Spurling, Archie W. (See Bainer and Spurling.)
Spurling, Harry R. (See Bainer and Spurling.)
Spurrier, William A., Newton, Mass. Drying apparatus for printed sheets of paper. No. 1,037,075; Aug. 27; Gaz. vol. 181; p. 1008.
Squier, Edward E. (See Gracey and Squier.)
Squier, George A., Cleveland, Ohio. Clamp for eyeglasses. No. 1,040,045; Oct. 1; Gaz. vol. 183; p. 125.
Squier, George O. (See Crehore and Squier.)
Squire, Arnold M., Cleveland, Ohio. Steering-wheel device. No. 1,037,354; Sept. 3; Gaz. vol. 182; p. 59.
Squire, Edwin, Claremont, Cal. Oil-burning furnace. No. 1,039,460; Sept. 24; Gaz. vol. 182; p. 861.
Squire, Edwin E., Black Diamond, Cal. Lock for garment-pockets. No. 1,016,650; Feb. 6; Sp. p. 957; Gaz. vol. 175; p. 144.
Squire, George E., Jersey City, N. J. Underreamer. No. 1,017,333; Feb. 13; Sp. p. 2443; Gaz. vol. 175; p. 415.
Squires, Pembroke N., Canon City, Colo. Headlight-adjuster for motor-vehicles. No. 1,032,309; July 9; Gaz. vol. 180; p. 545.
Sramek, Jacob, Bryan, Tex. Plow. No. 1,014,265; Jan. 9; Sp. p. 2612; Gaz. vol. 174; p. 435.
Sroka, Michael, and L. Kalish, Chicago, Ill. Beer-coil-cleaning machine. No. 1,049,163; Dec. 31; Gaz. vol. 185; p. 1298.
St. Aubin, Emile. (See Ruel, St. Aubin, Dyer, and Sawyer.)
St. Clair, Abram, Los Angeles, Cal. Garment-holder. No. 1,035,256; Aug. 13; Gaz. vol. 181; p. 316.
St. Clair, Joseph, Philadelphia, Pa. Temporary-burial vault. No. 1,014,614; Jan. 9; Sp. p. 3337; Gaz. vol. 174; p. 553.
St. James, Louis. (See Kliber, William C., assignor.)
St. John, Artis P. (See Reagan, Mendal F., assignor.)

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St. John, Erastus R., Pittsburgh, Pa. Door. No. 1,048,471; Dec. 24; Gaz. vol. 185; p. 1022.
St. John, George H., Leonardsville, N. Y. Horse-boot. No. 1,043,978; Nov. 12; Gaz. vol. 184; p. 359.
St. John, John C., Boston, Mass., assignor to Improved Pin Ticket Company. Pin-ticket. No. 1,049,167; Dec. 31; Gaz. vol. 185; p. 1299.
St. John, Maichel J., Amsbry, Pa. Wrench. No. 1,046,892; Dec. 10; Gaz. vol. 185; p. 420.
St. John, Thomas M., New York, N. Y. Electrical communicating apparatus. No. 1,018,940; Feb. 27; Sp. p. 5997; Gaz. vol. 175; p. 1034.
St. John, Thomas M., New York, N. Y. Instrument for teaching telegraphic codes. No. 1,035,257; Aug. 13; Gaz. vol. 181; p. 317.
St. Louis Briquette Machine Company. (See Komarek, Gustav, assignor.)
St. Paul Foundry Company. (See Allenson, John, assignor.)
St. Peters, George, Mattoon, Wis. Double-acting pump. No. 1,029,476; June 11; Sp. p. 3059; Gaz. vol. 179; p. 513.
Staahlgren, Karl A. A., New York, N. Y., assignor, by mesne assignments, to J. F. Allee, Dover, Del. Windproof casing for inverted incandescent gas-burners. No. 1,023,106; Apr. 23; Sp. p. 5014; Gaz. vol. 177; p. 886.
Staats, William H., Colonie, N. Y. Pneumatic spring. No. 1,016,651; Feb. 6; Sp. p. 959; Gaz. vol. 175; p. 145.
Stables, Richard. (See Dickie, Lambert, and Stables.)
Stacey, Richard D., Maldon, Victoria, Australia. Screen. No. 1,031,482; July 2; Gaz. vol. 180; p. 221.
Stachlin, Otto, and K. Zechentmayer, assignors to Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany. Color-lakes and making same. No. 1,031,823; July 9; Gaz. vol. 180; p. 381.
Stack, Edward, Pittsburgh, Pa. Combined tie and rail-fastener. No. 1,024,953; Apr. 30; Sp. p. 6911; Gaz. vol. 177; p. 1214.
Stack, Elmer S., Somerville, Mass. Ball-cock. No. 1,038,014; Sept. 10; Gaz. vol. 182; p. 315.
Stack, Elmer S., Somerville, Mass. Pipe-vise. No. 1,046,120; Dec. 3; Gaz. vol. 185; p. 110.
Stack, George B., Sacramento, Cal. Public drinking-fountain. No. 1,016,652; Feb. 6; Sp. p. 960; Gaz. vol. 175; p. 145.
Stack, John T. (See Inman, Gilbert H., assignor.)
Stack, Patrick P., Salt Lake City, Utah. Automatic hose-regulating lawn-sprinkler and adjustable support. No. 1,037,557; Sept. 3; Gaz. vol. 182; p. 129.
Stacker, Patrick L., Greenwood, S. C. Road-grading machine. No. 1,023,399; Apr. 16; Sp. p. 3522; Gaz. vol. 177; p. 627.
Stackpole, Charles F., Lynn, assignor of one-half to A. H. Howard, Boston, Mass. Burnishing-machine. No. 1,041,692; Oct. 15; Gaz. vol. 183; p. 745.
Stačks, Howard R., Glenside, assignor of one-half to R. O. Kohler, Catasauqua, Pa. Rock and ore crusher. No. 1,014,532; Jan. 9; Sp. p. 3157; Gaz. vol. 174; p. 525.
Stacy, James N., New York, N. Y. Moistener and sealer. No. 1,018,592; Feb. 27; Sp. p. 5280; Gaz. vol. 175; p. 917.
Stacy, M. J., *et al.* (See Putman, Lewis S., assignor.)
Staff, Olof, and W. Larson, Lothrop, Mont. Rotary engine. No. 1,047,323; Dec. 17; Gaz. vol. 185; p. 602.
Stafford, Benjamin E. D., assignor to Keystone Nut Lock Manufacturing Company, Pittsburgh, Pa. Nut-lock. No. 1,024,038; Apr. 23; Sp. p. 4863; Gaz. vol. 177; p. 862.
Stafford, Benjamin E. D., assignor to Flannery Bolt Company, Pittsburgh, Pa. Flexible stay-bolt for boilers. No. 1,042,831; Oct. 29; Gaz. vol. 183; p. 1200.
Stafford, Benjamin E. D., assignor to Flannery Bolt Company, Pittsburgh, Pa. Flexible stay-bolt for boilers. No. 1,042,832; Oct. 29; Gaz. vol. 183; p. 1200.
Stafford, Benjamin E. D., assignor to Flannery Bolt Company, Pittsburgh, Pa. Stay-bolt for boilers. No. 1,042,833; Oct. 29; Gaz. vol. 183; p. 1201.
Stafford, C. M. (See Gibson, Campbell, assignor.)
Stafford Company, The. (See Harriman, Henry I., assignor.)
Stafford Company, The. (See Jackson, Simeon S., assignor.)
Stafford, Earl C., Wilkinsburg, assignor to H. Small. Philadelphia, Pa., and C. A. Duren, Boston, Mass Cleaning apparatus. No. 1,036,365; Aug. 20; Gaz. vol 181; p. 738.
Stafford, John, and O. C. Currie, Detroit, Mich.; said Currie assignor to said Stafford. Multiple type-writer press. No. 1,024,461; Apr. 23; Sp. p. 5782; Gaz. vol. 177; p. 1005.
Stafford, John E., Gilbert, W. Va. Refrigerator. No. 1,028,298; June 4; Sp. p. 512; Gaz. vol. 179; p. 75.
Stafford, Lorenzo D. (See Pettijohn and Stafford.)
Stafford, Nelson, New York, N. Y. Calculating-machine. No. 1,026,473; May 14; Sp. p. 3052; Gaz. vol. 178; p. 503.
Stage, Floyd L., Hamburg, N. Y. Vehicle-signal. No. 1,030,027; June 18; Sp. p. 4263; Gaz. vol. 179; p. 739.
Stagg, John W., Anniston, Ala. Portable car-unloading chute. No. 1,028,831; June 4; Sp. p. 1636; Gaz. vol. 179; p. 255.
Stahl, Carl, Nuremberg, Germany. Brush. No. 1,017,334; Feb. 13; Sp. p. 2445; Gaz. vol. 175; p. 415.
Stahl, Carl H. (See Ryden and Stahl.)
Stahl, Jacob P. (See Hofer and Stahl.)
Stahl, Karl M., New York, N. Y. Viewing device. No. 1,019,853; Mar. 12; Sp. p. 1805; Gaz. vol. 176; p. 316.
Stahl, Karl M., New York, N. Y. Microscope. No. 1,022,606; Apr. 9; Sp. p. 1811; Gaz. vol. 177; p. 316.
Stahlwerk Becker Aktien-Gesellschaft. (See Unterloff, Otto, assignor.)
Stahlwerk Becker Aktiengesellschaft. (See Karpa, Carl, assignor.)
Stahr, Garibaldi, Petaluma, Cal. Support for paint-buckets. No. 1,021,903; Apr. 2; Sp. p. 319; Gaz. vol. 177; p. 53.
Staib, Albert, New York, N. Y. Lock-flange for piano-actions. No. 1,048,752; Dec. 31; Gaz. vol. 185; p. 1157.
Staib, Gustav, Port Richmond, N. Y. Aeroplane. No. 1,033,287; July 23; Gaz. vol. 180; p. 960.
Staines, Bunn & Taber Company, The. (See Staines, Charles T., assignor.)
Staines, Charles T., Newark, N. J., assignor to The Staines, Bunn & Taber Company, Brooklyn, N. Y. Lighting-fixture. No. 1,043,266; Nov. 5; Gaz. vol. 184; p. 78.
Staines, Frank, London, England. Sink for washing crockery. No. 1,033,961; July 30; Gaz. vol. 180; p. 1212.
Staines, Frank, London, England. Device for washing crockery and the like. No. 1,040,450; Oct. 8; Gaz. vol. 183; p. 291.
Stainfield, Harry M., St. Louis Park, and E. R. Beeman, assignors to The Monitor Drill Company, Minneapolis, Minn. Disk attachment. No. 1,033,484; July 23; Gaz. vol. 180; p. 1025.
Stainfield, Harry M., St. Louis Park, and E. R. Beeman, assignors to The Monitor Drill Company, Minneapolis, Minn. Disk-mounting. No. 1,046,231; Dec. 3; Gaz. vol. 185; p. 151.
Stajgr, Frank H., Wyndmere, N. D. Tongue-truck. No. 1,047,324; Dec. 17; Gaz. vol. 185; p. 602.
Stalaus, Robert L. (See Johnson and Stalaus.)
Staley, Harrison L., assignor to Staley Manufacturing Company, Martinsville, Ind. Gearing. No. 1,020,226; Mar. 12; Sp. p. 2608; Gaz. vol. 176; p. 442.
Staley, Jacob J., Dayton, Ohio. Cut-off for gas-pipes. No. 1,030,341; June 25; Sp. p. 4977; Gaz. vol. 179; p. 887.
Staley, Jacob J., Dayton, Ohio. Valve. No. 1,048,906; Dec. 31; Gaz. vol. 185; p. 1211.
Staley Manufacturing Company. (See Staley, Harrison L., assignor.)
Staley, Paul A., *et al.*, receivers. (See Trump, Fuller, assignor.)
Staley, Raleigh H., Springfield, Ill. Rammer. No. 1,044,589; Nov. 19; Gaz. vol. 184; p. 599.
Stålhane, Otto. (See Grönwall, Lindblad, and Stålhane.)
Stallard, Sylvester P., assignor of one-fourth to C. Kershaw and one-fourth to E. Lyons, Elkhorn, W. Va. Mail-bag catcher and deliverer. No. 1,047,848; Dec. 17; Gaz. vol. 185; p. 785.
Stallard, Wilber L., Brook, Ind. Corn-husker. No. 1,027,446; May 28; Sp. p. 5195; Gaz. vol. 178; p. 911.
Stallman, Frank O., San Francisco, Cal. Combined automatic cut-off switch and lamp-socket. No. 1,039,835; Oct. 1; Gaz. vol. 183; p. 55.
Stallman, Granville H., Chicago, Ill. Piston. No. 1,031,739; July 9; Gaz. vol. 180; p. 352.
Stallsworth, John T., Tolo, Oreg. Pump. No. 1,043,267. Nov. 5; Gaz. vol. 184; p. 78.
Stalmann, Gerhard. (See Schmitz and Stalmann.)
Stambaugh, George W., Chicago, Ill. Toy pistol. No. 1,024,374; Apr. 23; Sp. p. 5564; Gaz. vol. 177; p. 976.
Stambaugh, William B., Woodsboro, Md. Culvert. No. 1,040,046; Oct. 1; Gaz. vol. 183; p. 125.
Stamey, Nelson V. (See Brecht and Stamey.)
Stamm, August. (See Kuphal, Otto, assignor.)
Stamm, George T., Upland, Cal. Orange-boxing device. No. 1,030,342; June 25; Sp. p. 4978; Gaz. vol. 179; p. 887.
Stamm, Max, Solingen, Germany. Making steel punches. No. 1,028,299; June 4; Sp. p. 514; Gaz. vol. 179; p. 75.
Stampahar, Josef I., and J. F. Rom, Red Lodge, Mont. Spark-arrester. No. 1,030,028; June 18; Sp. p. 4264; Gaz. vol. 179; p. 739.
Stamper, Carter D., Beattyville, Ky. Registering seal-press. No. 1,028,914; June 11; Sp. p. 1842; Gaz. vol. 179; p. 319.
Stamps, Henry, Chicago, Ill. Level-stand. No. 1,030,938; July 2; Gaz. vol. 180; p. 30.
Stamps, Henry W., Rome, Ga. Clip. No. 1,029,829; June 18; Sp. p. 3832; Gaz. vol. 179; p. 672.
Stamps, Nathaniel C., Ocean Park, Cal. Carbureter. No. 1,030,343; June 25; Sp. p. 4981; Gaz. vol. 179; p. 888.
Stanbridge, Henry, Tinsley, near Sheffield, assignor to J. A. Hill, Sheffield, England. Projectile for ordnance. No. 1,029,517; June 11; Sp. p. 3134; Gaz. vol. 179; p. 525.

Alphabetical list of patentees—Continued.

Stanbridge, Henry, assignor to J. A. Hill, Sheffield, England. Projectile. No. 1,043,547; Nov. 5; Gaz. vol. 184; p. 180.
Stanbrough, Amos C., and E. Johnson, Newberg, Oreg. Electric-lamp controller. No. 1,043,268; Nov. 5; Gaz. vol. 184; p. 78.
Stancliff, Peter S., Toledo, Ohio. Clothes-line support. No. 1,021,274; Mar. 26; Sp. p. 4821; Gaz. vol. 176; p. 879.
Standard Alcohol Company. (See Ewen and Tomlinson, assignors.)
Standard Alcohol Company. (See Gallagher and Mork, assignors.)
Standard Alcohol Company. (See Tomlinson, George H., assignor.)
Standard Asphalt and Rubber Company, The. (See Levering, William A., assignor.)
Standard Assembler Company. (See Cox, Sandford C., assignor.)
Standard Bale Wire Buckle Co. (See Armstrong, James E., assignor.)
Standard Bale Wire Buckle Co. (See Eddleman and McFarland, assignors.)
Standard Car Truck Company. (See Barber, John C., assignor.)
Standard Car Truck Company. (See Barber and Webb, assignors.)
Standard Computing Scale Company. (See Buckingham, Fremont H., assignor.)
Standard Computing Scale Company. (See King, Bert W., assignor.)
Standard Cotton Compress Company, The. (See Luce, Charles J., assignor.)
Standard Coupler Company. (See Gallagher, Richard D., Jr., assignor.)
Standard Equipment Company, The. (See Dalfond, Octavien, assignor.)
Standard Fibre Company. (See Hansen, Harold E., assignor.)
Standard Knitting Mills Company. (See Marlow, William, assignor.)
Standard Light Company. (See Conner, Herschel M., assignor.)
Standard Lighters Manufacturing Co. (See Dubinski, Benjamin, assignor.)
Standard Lime & Stone Company, The. (See Zies, Emanuel G., assignor.)
Standard Machine Co. (See Houseman, Harry A., assignor.)
Standard Machinery Company. (See Murphy, William T., assignor.)
Standard Machines Limited. (See Dunn and Taylor, assignors.)
Standard Manufacturing Company, The. (See Andrews, Daniel A., assignor.)
Standard Manufacturing Company. (See Voorhees, Walter K., assignor.)
Standard Meter Company, The. (See Smith, Hugh A., assignor.)
Standard Oil Company. (See Black and Chappell, assignors.)
Standard Oil Company. (See Eggleston, John E., assignor.)
Standard Oil Company. (See Robinson, Clarence I., assignor.)
Standard Oil Company. (See Saybolt, George M., assignor.)
Standard Optical Company. (See Boucher, Philias J., assignor.)
Standard Optical Company, The. (See Clark, Bennett F., assignor.)
Standard Optical Company, The. (See Richards, William M., assignor.)
Standard Optical Company. (See Van Tassel, John R., assignor.)
Standard Plunger Elevator Company. (See Dunn, Edward L., assignor.)
Standard Pressed Steel Company. (See Hallowell, Howard T., assignor.)
Standard Railway Equipment Company. (See Miller, William, assignor.)
Standard Resilient Wheel Co. (See Gaynor, Joseph, assignor.)
Standard Rock Drill Company, The. (See O'Brien and Awkerman, assignors.)
Standard Roller Bearing Co. (See Carpenter, George H., assignor.)
Standard Roller Bearing Company. (See Beemer, Frank, assignor.)
Standard Roller Bearing Company, The. (See Sieling, Frank I., assignor.)
Standard Saw and Manufacturing Co. (See McKam, Lawrence G., assignor.)
Standard Sewing Machine Company, The. (See Arnold, Satterlee T., assignor.)
Standard Sewing Machine Company, The. (See Mack, William A., assignor.)
Standard Sewing Machine Company. (See Mills, Daniel, assignor.)
Standard Specialty Company. (See Persons, Charles A., assignor.)
Standard Stamping Company. (See Gibbard, Walter S., assignor.)
Standard Stamping Company, The. (See Spear, James M., assignor.)
Standard Steel Car Company. (See Christianson, Andrew, assignor.)
Standard Steel Tube Company, The. (See Long, Matthew T., assignor.)
Standard Textile Co. (See Garfinkle, Nathan, assignor.)
Standard Tire Protector Company, The. (See Dorgan, William T., assignor.)
Standard Underground Cable Company. (See Davis, Charles W., assignor.)
Standard Underground Cable Company. (See Fisher, Henry W., assignor.)
Standard Varnish Works. (See Beausejour, Reme A., assignor.)
Standard Varnish Works. (See Beausejour and Drubel, assignors.)
Standard Varnish Works. (See Rosenberg, Edward, assignor.)
Standefer, Henry R., Dallas, Tex. Automatic weighing-scale. No. 1,046,885; Dec. 10; Gaz. vol. 185; p. 417.
Stander, Jacob, Brooklyn, N. Y. Machine for making lock-joined angular metal tubing. No. 1,023,049; Apr. 9; Sp. p. 2753; Gaz. vol. 177; p. 470.
Standing Stamping Company, The. (See Vock, Arthur A., assignor.)
Standish, Edward K., Waltham, Mass. Rotary explosion-engine. No. 1,033,748; July 23; Gaz. vol. 180; p. 1110.
Standish, Edward K., assignor to Diamond Power Specialty Company, Detroit, Mich. Steam-separator. No. 1,039,836; Oct. 1; Gaz. vol. 183; p. 56.
Standley, Henry I., Hope, N. D. Culvert. No. 1,025,327; May 7; Sp. p. 492; Gaz. vol. 178; p. 76.
Standley, Meredith G., Cincinnati, Ohio. Bank. No. 1,036,366; Aug. 20; Gaz. vol. 181; p. 738.
Stanecky, Joseph G., assignor of one-third to J. Sipka, Chicago, Ill. Window construction. No. 1,046,035; Dec. 3; Gaz. vol. 185; p. 81.
Staněk, Vladimir, Prague, assignor to Chemische Fabrik Gedeon Richter, Budapest, Austria-Hungary. Making stable compounds containing hydrogen peroxid. No. 1,035,756; Aug. 13; Gaz. vol. 181; p. 487.
Staněk, Vladimir, Prague, assignor to Chemische Fabrik Gedeon Richter, Budapest, Austria-Hungary. Making solid stable compounds containing hydrogen peroxid. No. 1,045,451; Nov. 26; Gaz. vol. 184; p. 928.
Stanfield, Jasper H., and L. D. Stocking, Muskegon, Mich.; said Stanfield assignor to said Stocking. Feed mechanism for type-writers. No. 1,035,649; Aug. 13; Gaz. vol. 181; p. 453.
Stange, Frederick W., Clyman, Wis. Wheel-support. No. 1,044,282; Nov. 12; Gaz. vol. 184; p. 463.
Stanger, William D., Merchantville, N. J. Die for forming metal staying-strips. No. 1,044,283; Nov. 12; Gaz. vol. 184; p. 463.
Stanhope, Philip R., Denver, Colo. Ore-crushing stamp-mill. No. 1,026,717; May 21; Sp. p. 3577; Gaz. vol. 178; p. 623.
Stanhope, Philip R., Denver, Colo. Ore-concentrating launder. No. 1,029,089; June 11; Sp. p. 2222; Gaz. vol. 179; p. 379.
Stanhope, Philip R., Denver, Colo. Dumping-lever for ore-cars and the like. No. 1,038,674; Sept. 17; Gaz. vol. 182; p. 574.
Stankiewicz, Tadius J., Chicago, Ill. Automatic sprinkler system. No. 1,031,740; July 9; Gaz. vol. 180; p. 352.
Stankus, John, Portage, Pa. Mowing-machine. No. 1,045,627; Nov. 26; Gaz. vol. 184; p. 991.
Stanley, Clarence. (See Sattley, Frederick L., assignor.)
Stanley, George H., assignor to Sands Limited, Johannesburg, Transvaal. Classifying or grading apparatus. No. 1,039,206; Sept. 24; Gaz. vol. 182; p. 772.
Stanley, George H., assignor to Sands Limited, Johannesburg, Transvaal. Apparatus for classifying or grading crushed ore and the like. No. 1,040,804; Oct. 8; Gaz. vol. 183; p. 416.
Stanley, George P., assignor to Dixfield Toothpick Co., Dixfield, Me. Combination-knife for cutting toothpicks. No. 1,038,798; Sept. 17; Gaz. vol. 182; p. 618.
Stanley, James, New York, N. Y. Building-light. No. 1,046,886; Dec. 10; Gaz. vol. 185; p. 418.
Stanley, John. (See Martin and Stanley.)
Stanley, John O., South Hadley Falls, assignor to B. F. Perkins and Son, Incorporated, Holyoke, Mass. Paper-testing machine. No. 1,025,101; Apr. 30; Sp. p. 7206; Gaz. vol. 177; p. 1262.
Stanley, John O., and J. L. Perkins, assignors to B. F. Perkins & Son, Incorporated, Holyoke, Mass. Strength-testing apparatus. No. 1,021,012; Mar. 26; Sp. p. 4265; Gaz. vol. 176; p. 792.
Stanley, Nathan M., Dayton, Ohio. Making metallic letters. No. 1,018,138; Feb. 20; Sp. p. 4245; Gaz. vol. 175; p. 729.
Stanley Rule & Level Company, The. (See Bodmer, Christian, assignor.)
Stanley Rule & Level Company, The. (See Burdick, James M., assignor.)
Stanley Rule & Level Company, The. (See Hance, Joseph M., assignor.)

Alphabetical list of patentees—Continued.

Stanley Rule and Level Company, The. (See Richards, Hubert P., assignor.)
Stanley Rule & Level Company, The. (See Saner, Thomas B., assignor.)
Stanley Rule & Level Company, The. (See Schade, Albert F., assignor.)
Stanley Rule & Level Company, The. (See Schade, Edmund A., assignor.)
Stanley Rule & Level Company, The. (See Schade and Bodmer, assignors.)
Stanley Rule & Level Company. (See Siegley, Jacob, assignor.)
Stanley, Theodore D., Detroit, Mich. Lock for steering-wheels. No. 1,017,335; Feb. 13; Sp. p. 2446; Gaz. vol. 175; p. 416.
Stanley, William, Great Barrington, Mass., assignor to General Electric Company. Storage-stove. No. 1,025,843; May 7; Sp. p. 1600; Gaz. vol. 178; p. 254.
Stanley, William, Great Barrington, Mass., assignor to General Electric Company. Electric heater. No. 1,027,291; May 21; Sp. p. 4876; Gaz. vol. 178; p. 820.
Stanley, William, Great Barrington, Mass., assignor to General Electric Company. Heating device. No. 1,044,284; Nov. 12; Gaz. vol. 184; p. 463.
Stanley, William, Great Barrington, Mass., assignor to General Electric Company. Electric heating device. No. 1,046,887; Dec. 10; Gaz. vol. 185; p. 418.
Stanley, William, Great Barrington, Mass., assignor to General Electric Company. Electric heater. No. 1,046,888; Dec. 10; Gaz. vol. 185; p. 419.
Stanley, William E., Hawkinsville, Ga. Automobile. No. 1,028,975; June 11; Sp. p. 1967; Gaz. vol. 179; p. 340.
Stanley Works, The. (See Hart and Parsons, assignors.)
Stanley Works, The. (See Howe, Leon S., assignor.)
Stanley Works, The. (See Parsons, Stuart W., assignor.)
Stannard, Benjamin F., and A. Aginskee, Omaha, Nebr. Locomotive smoke-box. No. 1,023,970; Apr. 23; Sp. p. 4720; Gaz. vol. 177; p. 837.
Stannard, Benjamin F., and A. Aginskee, assignors to National Automatic Vehicle Fender Company, Omaha, Nebr. Automobile-fender. No. 1,023,971; Apr. 23; Sp. p. 4724; Gaz. vol. 177; p. 838.
Stanschus, Michael, New York, N. Y. Wind-motor. No. 1,025,428; May 7; Sp. p. 701; Gaz. vol. 178; p. 111.
Stansfield, Charles, Jamestown, N. Y., assignor to Draper Company, Hopedale, Mass. Twister stop-motion. No. 1,039,330; Sept. 24; Gaz. vol. 182; p. 816.
Stanton, Eldridge, Toronto, Ontario, Canada. Loose-leaf binder. No. 1,039,207; Sept. 24; Gaz. vol. 182; p. 772.
Stanton, Frederick W., Chicago, Ill. Door-stop. No. 1,039,461; Sept. 24; Gaz. vol. 182; p. 861.
Stanton, Horace B., Boston, Mass. Shock-absorber. No. 1,028,400; June 4; Sp. p. 739; Gaz. vol. 179; p. 111.
Stanton, John H., Franklin, Ohio. Collapsible box. No. 1,034,527; Aug. 6; Gaz. vol. 181; p. 43.
Stanton, Walter C. (See Martin, Wallace B., assignor.)
Stanton, William M., Milwaukee, Wis. Meat chopper and tenderer. No. 1,024,811; Apr. 30; Sp. p. 6617; Gaz. vol. 177; p. 1164.
Stanton, William M., Milwaukee, Wis. Meat chopper and tenderer. No. 1,025,654; May 7; Sp. p. 1226; Gaz. vol. 178; p. 189.
Stanwood, James B., Cincinnati, Ohio, assignor, by mesne assignments, to C. E. Mehlhope, trustee, Chicago, Ill. Steam-boiler furnace. No. 1,033,355; July 23; Gaz. vol. 180; p. 983.
Stanworth, Charles S., Norfolk, Va. Speed-finder for moving bodies. No. 1,047,584; Dec. 17; Gaz. vol. 185; p. 693.
Stanza, John P., Eaton, Ohio. Cultivator-shovel. No. 1,037,355; Sept. 3; Gaz. vol. 182; p. 59.
Stapel, Adolf G., Montgomery, Ala. Accelerator for hot-water heating systems. No. 1,029,032; June 11; Sp. p. 2093; Gaz. vol. 179; p. 361.
Staples, Albert F., Canisteo, N. Y. Account-register. No. 1,023,889; Apr. 23; Sp. p. 4527; Gaz. vol. 177; p. 811.
Staples, Albert F., Buffalo, N. Y. Combination-lock. No. 1,035,757; Aug. 13; Gaz. vol. 181; p. 488.
Staples, Albert F., Buffalo, N. Y. Filing device. No. 1,036,740; Aug. 27; Gaz. vol. 181; p. 896.
Staples, Albert F., Buffalo, N. Y. Account-register. No. 1,040,805; Oct. 8; Gaz. vol. 183; p. 416.
Staples, Albert F., assignor to Superior Register Company, Canisteo, N. Y. Account-register. No. 1,022,007; Apr. 2; Sp. p. 553; Gaz. vol. 177; p. 86.
Staples, Albert F., assignor to Superior Register Company, Canisteo, N. Y. Account-register. No. 1,026,614; May 14; Sp. p. 3332; Gaz. vol. 178; p. 550.
Staples, Albert F., assignor to Superior Register Company, Canisteo, N. Y. Account-register. No. 1,026,615; May 14; Sp. p. 3335; Gaz. vol. 178; p. 550.
Staples, Albert F., assignor to Superior Register Company, Canisteo, N. Y. Filing device. No. 1,028,300; June 4; Sp. p. 514; Gaz. vol. 179; p. 75.
Staples, Albert F., assignor to Superior Register Company, Canisteo, N. Y. Bill-clip. No. 1,031,392; July 2; Gaz. vol. 180; p. 190.
Staples, Frank A., San Francisco, Cal. Artificial bait. No. 1,019,926; Mar. 12; Sp. p. 1978; Gaz. vol. 176; p. 342.
Staples, George W., Anahuac, Tex. Removable head for barrels and like receptacles. No. 1,031,483; July 2; Gaz. vol. 180; p. 222.
Stapleton, John T. (See Kendall and Stapleton.)
Stapley, William S., assignor to Bridgeport Brass Company, Bridgeport, Conn. Shade-holder. No. 1,022,895; Apr. 9; Sp. p. 2431; Gaz. vol. 177; p. 415.
Star Ball Bearing Door Hanger Company. (See Perlman, Abraham, assignor.)
Star Ball Retainer Company, The. (See Chambers, David F., assignor.)
Star Ball Retainer Company, The. (See Straub, Jackson L., assignor.)
Star Carburetor and Supply Company. (See Howarth, Albert, assignor.)
Star Egg Carrier & Tray Mfg. Co. (See Jenne, Henry S., assignor.)
Star Manufacturing Company. (See Smith, Henry A., assignor.)
Star, Richard, U. S. Navy. Ammunition-hoist. No. 1,040,047; Oct. 1; Gaz. vol. 183; p. 125.
Star Seal Company. (See Stone, William F., assignor.)
Star Seal Company. (See Winter, Charles, assignor.)
Star Storm Front Company, The. (See Scott, George, assignor.)
Starcke, Hans, Cologne, Germany. Terminal for branch lines of different cross-section. No. 1,045,626; Nov. 26; Gaz. vol. 184; p. 991.
Staren, Joseph, Chicago, Ill. Adjustable framing. No. 1,015,518; Jan. 23; Sp. p. 5354; Gaz. vol. 174; p. 918.
Stark, Andrew, Chicago, Ill. Concrete railway-tie. No. 1,021,433; Mar. 26; Sp. p. 5172; Gaz. vol. 176; p. 936.
Stark, Andrew, Chicago, Ill. Concrete railway-tie. No. 1,036,160; Aug. 20; Gaz. vol. 181; p. 665.
Stark, Charles H., Strasburg, Va. Extensible step. No. 1,017,116; Feb. 13; Sp. p. 1976; Gaz. vol. 175; p. 340.
Stark, Charles H., Strasburg, Va. Car-coupling. No. 1,023,444; Apr. 16; Sp. p. 3607; Gaz. vol. 177; p. 642.
Stark, Emil G., Altchemnitz, near Chemnitz, Germany. Treating brittle vegetable fibers of kapok and other plants. No. 1,023,890; Apr. 23; Sp. p. 4531; Gaz. vol. 177; p. 811.
Stark, Michael J., Jr. (See Beals and Stark.)
Starke, Eric A., Berkeley, Cal. Apparatus for saving gas and oil from producing-wells. No. 1,040,806; Oct. 8; Gaz. vol. 183; p. 417.
Starke, Paul, Berlin, Germany. Tramway-track. No. 1,038,982; Sept. 17; Gaz. vol. 182; p. 680.
Starker, Charles W., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Induction-motor winding. No. 1,015,912; Jan. 30; Sp. p. 6204; Gaz. vol. 174; p. 1082.
Starkey, William E. (See Vradenburgh, David G., assignor.)
Starkie, John W., East Elmhurst, N. Y. Perforated-music-roll spool. No. 1,016,235; Jan. 30; Sp. p. 6859; Gaz. vol. 174; p. 1192.
Starkweather, Arthur C., and J. Nagel, Amherst, Ohio. Conveyer. No. 1,030,344; June 25; Sp. p. 4983; Gaz. vol. 179; p. 888.
Starkweather, Henry W., assignor to Winchester Repeating Arms Co., New Haven, Conn. Electric primer. No. 1,034,160; July 30; Gaz. vol. 180; p. 1281.
Starkweather, Jennie. (See Starkweather, Rufus G., assignor.)
Starkweather, Rufus G., Jordanville, N. Y. Mail and parcel collecting and distributing system. No. 1,024,707; Apr. 30; Sp. p. 6398; Gaz. vol. 177; p. 1127.
Starkweather, Rufus G., assignor of one-sixth to J. Starkweather, Jordanville, N. Y. Mail and parcel collection and delivery system. No. 1,024,706; Apr. 30; Sp. p. 6393; Gaz. vol. 177; p. 1126.
Starman, Joseph. (See Weis and Starman.)
Starn, George E., Camden, assignor to H. M. Dover, Palmyra, N. J. Vehicle-tire. No. 1,014,345; Jan. 9; Sp. p. 2808; Gaz. vol. 174; p. 464.
Starn, George E., Camden, assignor to H. M. Dover, Palmyra, N. J. Water-heater. No. 1,019,549; Mar. 5; Sp. p. 1229; Gaz. vol. 176; p. 183.
Starn, George E., assignor, by mesne assignments, to Starn Tire Manufacturing Company, Camden, N. J. Vehicle-tire. No. 1,035,487; Aug. 13; Gaz. vol. 181; p. 398.
Starn Tire Manufacturing Company. (See Starn, George E., assignor.)
Starnes, Oliver P., Cheyenne, Okla. Wire-stretcher. No. 1,023,972; Apr. 23; Sp. p. 4727; Gaz. vol. 177; p. 839.
Starr, Alden B. (See Wilson and Starr.)
Starr, Alden B., assignor to Single Service Package Corporation of America, New York, N. Y. Double-walled vessel with metallic end closures. No. 1,027,924; May 28; Sp. p. 6236; Gaz. vol. 178; p. 1071.
Starr, Alden B., assignor to Single Service Package Corporation of America, New York, N. Y. Machine for affixing closures to vessels. No. 1,038,983; Sept. 17; Gaz. vol. 182; p. 680.
Starr, Ferdinand W., Springfield, Ohio. Furniture-caster. No. 1,016,300; Feb. 6; Sp. p. 140; Gaz. vol. 175; p. 22.
Starr, Frank, Rice, Minn. Gang-plow. No. 1,033,207; July 23; Gaz. vol. 180; p. 932.
Starr, Harry D., Lodi, Cal. Fruit-picker. No. 1,025,214; May 7; Sp. p. 231; Gaz. vol. 178; p. 38.

Alphabetical list of patentees—Continued.

Starr, John H., assignor to E. A. Mallory & Sons, Danbury, Conn. Hat-nap-raising machine. No. 1,014,419; Jan. 9; Sp. p. 2956; Gaz. vol. 174; p. 490.
Starr, John H., assignor to E. A. Mallory and Sons, Incorporated, Danbury, Conn. Nap-raising machine for felt hats. No. 1,017,924; Feb. 20; Sp. p. 3771; Gaz. vol. 175; p. 655.
Starr Piano Company, The. (See Draper, Francis W., assignor.)
Starr, Thomas C., Stockton, Cal. Aeroplane. No. 1,045,209; Nov. 26; Gaz. vol. 184; p. 843.
Stasand, Louis E. (See Paul and Stasand.)
Stasch, Valentin, Friedenshutte, Germany. Brake device for stopping runaway trucks on inclined tracks. No. 1,031,152; July 2; Gaz. vol. 180; p. 107.
Stasch, Valentin, Friedenshütte, assignor of one-half to Gräflich Schaffgotsch'sche Werke, G. m. b. H., Beuthen, Germany. Safety apparatus for miners' trucks. No. 1,019,281; Mar. 5; Sp. p. 618; Gaz. vol. 176; p. 96.
Stasel, Solomon, Chicago, Ill. Fire-escape. No. 1,046,672; Dec. 10; Gaz. vol. 185; p. 344.
Stassano, Ernesto, Turin, Italy. Electric furnace. No. 1,024,657; Apr. 30; Sp. p. 6295; Gaz. vol. 177; p. 1109.
Stassart, Joseph D., Portland, Oreg. Pencil-sharpener. No. 1,040,048; Oct. 1; Gaz. vol. 183; p. 126.
State of Minnesota, The. (See Downing, John H., assignor.)
Staton, William, assignor to Providence Silk Hosiery Company, Providence, R. I. Stocking. No. 1,025,328; May 7; Sp. p. 494; Gaz. vol. 178; p. 77.
Stattmann, Walter A., Wilmette, assignor to Chisholm Sales Company, Chicago, Ill. Non-refillable bottle. No. 1,047,325; Dec. 17; Gaz. vol. 185; p. 603.
Statton, Samuel W., Minneola, Kans. Oil-burner. No. 1,030,211; June 18; Sp. p. 4662; Gaz. vol. 179; p. 801.
Staub, John W. (See Howard, Benjamin F., assignor.)
Stäubli, Gebr. (See Stäubli, Hermann, assignor.)
Stäubli, Hermann, assignor to Gebr. Stäubli, Horgen, Switzerland. Dobby of the Hattersley type. No. 1,017,184; Feb. 13; Sp. p. 2126; Gaz. vol. 175; p. 363.
Staude, Edwin G., assignor to E. G. Staude Manufacturing Co., Minneapolis, Minn. Blank packing and counting mechanism. No. 1,018,087; Feb. 20; Sp. p. 4125; Gaz. vol. 175; p. 711.
Staude, Edwin G., assignor to E. G. Staude Manufacturing Co., Minneapolis, Minn. Feed device for flexible blanks or sheets. No. 1,033,040; July 16; Gaz. vol. 180; p. 836.
Stauder, Joseph, Mount Vernon, N. Y. Combination-tool. No. 1,042,984; Oct. 29; Gaz. vol. 183; p. 1252.
Stauf, Philip, Muncie, Ind. Cooler. No. 1,017,478; Feb. 13; Sp. p. 2766; Gaz. vol. 175; p. 466.
Stauffer, B. Grant, *et al.* (See Banzhof, Charles P., assignor.)
Stauffer, Charles F., *et al.* (See Banzhof, Charles P., assignor.)
Stauffer, Floyd F., assignor of one-half to W. J. Glynn, Dallas, Tex. Crank-rod bearing. No. 1,046,889; Dec. 10; Gaz. vol. 185; p. 419.
Stauffer, Samuel D., Lancaster, Pa. Combined steam and water radiator. No. 1,027,630; May 28; Sp. p. 5560; Gaz. vol. 178; p. 971.
Stauft, Daniel B., Scottdale, Pa. Coke-drawing machine. No. 1,021,710; Mar. 26; Sp. p. 5716; Gaz. vol. 176; p. 1028.
Staunton, Gray, Evanston, Ill. Vacuum packing apparatus. No. 1,013,230; Jan. 2; Sp. p. 311; Gaz. vol. 174; p. 49.
Staunton, Gray, Evanston, Ill. Vacuum-pump. No. 1,047,585; Dec. 17; Gaz. vol. 185; p. 693.
Staunton, Gray, Muskegon, Mich. Valve. No. 1,032,032; July 9; Gaz. vol. 180; p. 451.
Stauter, Willy. (See Markmann and Stauter.)
Stavely, Alwyn N., Lynch, Md. Barrel-rack. No. 1,019,550; Mar. 5; Sp. p. 1230; Gaz. vol. 176; p. 184.
Stavens, George, Coeur d'Alene, Idaho. Type-writer copy-holder. No. 1,033,288; July 23; Gaz. vol. 180; p. 961.
Staynes, William H., *et al.* (See Payne, Ernest E. M., assignor.)
Staynes, William H., Leicester, England. Buffing-roll. No. 1,029,406; June 11; Sp. p. 2923; Gaz. vol. 179; p. 489.
Ste Ame pour l'Exploitation des Procèdès Westinghouse Leblanc. (See Leblanc, Maurice, assignor.)
Sté des Télégraphes Multiplex, (System E. Mercadier.) (See Heina, Paul, assignor.)
Steadman, Frank M., and H. W. Hales, Ridgewood, N. J. Film-camera. No. 1,032,867; July 16; Gaz. vol. 180; p. 779.
Steam Power Devices Company, The. (See Winslow, William H., assignor.)
Stearns, Joseph S., *et al.* (See Drury, William H., assignor.)
Stearns-Roger Manufacturing Company, The. (See Pitcairn, Robert, assignor.)
Stearns, Sarah R., Huntington Beach, Cal. Trunk. No. 1,013,231; Jan. 2; Sp. p. 314; Gaz. vol. 174; p. 50.
Stebbins, Arthur C., assignor to Lansing Wheelbarrow Company, Lansing, Mich. Packing and package for disassembled wheelbarrows. No. 1,028,625; June 4; Sp. p. 1216; Gaz. vol. 179; p. 186.
Stebbins, Charles B. (See Hovey and Stebbins.)
Stebbins, Charles B., assignor to Sheffield Car Company, Three Rivers, Mich. Motor-car. No. 1,032,633; July 16; Gaz. vol. 180; p. 699.
Stebbins, Charles B., and W. S. Hovey, assignors to Sheffield Car Company, Three Rivers, Mich. Motor-car. No. 1,024,495; Oct. 29; Gaz. vol. 183; p. 1083.
Stebbins, Frank E. (See Wright and Stebbins.)
Stebbins, George A., Watertown, N. Y. Apparatus for the production of pulp. No. 1,035,395; Aug. 13; Gaz. vol. 181; p. 367.
Stebbins, Henry A., Malden, and A. A. Adams, Brookline, Mass., assignors, by mesne assignments, to Atlantic National Bank, Providence, R. I. Target-practice apparatus. No. 1,041,365; Oct. 15; Gaz. vol. 183; p. 638.
Steber, Bernard T., Utica, assignor to New Hartford Cotton Manufacturing Company, New Hartford, N. Y. Machine for slitting cloth. No. 1,025,931; May 7; Sp. p. 1833; Gaz. vol. 178; p. 283.
Stebler, Fred, Riverside, Cal. Fruit-elevator. No. 1,027,573; May 28; Sp. p. 5457; Gaz. vol. 178; p. 954.
Stecher, Charles, Chicago, Ill. Wire-bail-forming machine. No. 1,039,837; Oct. 1; Gaz. vol. 183; p. 56.
Steckel, Augustus A., Trenton, N. J. Brace for vehicle canopy-bows. No. 1,016,107; Jan. 30; Sp. p. 6624; Gaz. vol. 174; p. 1151.
Stecker, Alfred J., Detroit, Mich. Circuit opening and closing switch for charging-circuits. No. 1,026,003; May 14; Sp. p. 1992; Gaz. vol. 178; p. 343.
Stedman, Charles C., assignor to The Cook Motor Company, Delaware, Ohio. Regulator for explosion-engines. No. 1,027,778; May 28; Sp. p. 5863; Gaz. vol. 178; p. 1020.
Stedman, William E., assignor of one-fourth to J. I. White and one-fourth to G. A. White, Zanesville, Ohio. Shoe-heel. No. 1,049,164; Dec. 31; Gaz. vol. 185; p. 1298.
Stedman, William H., assignor to The Merrow Machine Company, Hartford, Conn. Edge-guide for sewing-machines. No. 1,044,937; Nov. 19; Gaz. vol. 184; p. 719.
Steedman, Edwin H. and J. H., St. Louis, assignors to Curtis & Company Manufacturing Company, Wellston, Mo. Apparatus for tempering metal articles. No. 1,027,010; May 21; Sp. p. 4252; Gaz. vol. 178; p. 725.
Steedman, James H. (See Steedman, Edwin H. and J. H.)
Steel Heddle Manufacturing Company. (See Kaufmann, Jacob, assignor.)
Steel, James, Little Falls, N. J. Type-setting machine. No. 1,013,624; Jan. 2; Sp. p. 1157; Gaz. vol. 174; p. 184.
Steel, John S., Chillicothe, Ohio. Hay-cutter. No. 1,033,485; July 23; Gaz. vol. 180; p. 1025.
Steel, Leonard R., Cleveland, Ohio. Milk-can. No. 1,013,693; Jan. 2; Sp. p. 1347; Gaz. vol. 174; p. 209.
Steel, Leonard R., Cleveland, Ohio. Glass-lined can. No. 1,013,694; Jan. 2; Sp. p. 1348; Gaz. vol. 174; p. 209.
Steel, Leonard R., Cleveland, Ohio. Pin-lock. No. 1,014,915; Jan. 16; Sp. p. 4068; Gaz. vol. 174; p. 688.
Steel, Leonard R., Cleveland, Ohio. Milk-can. No. 1,016,375; Feb. 6; Sp. p. 303; Gaz. vol. 175; p. 48.
Steel, Leonard R., Cleveland, Ohio. Milk-can. No. 1,016,973; Feb. 13; Sp. p. 1651; Gaz. vol. 175; p. 290.
Steel, Leonard R., Cleveland, Ohio. Ice-cream-storage can. No. 1,016,974; Feb. 13; Sp. p. 1653; Gaz. vol. 175; p. 290.
Steel, Leonard R., Cleveland, Ohio. Heat-insulated can. No. 1,048,368; Dec. 24; Gaz. vol. 185; p. 987.
Steel Mantle Light Company, The. (See Curtis, Frederic A., assignor.)
Steel, Samuel D., Woodlawn, Pa. Rail-clamp. No. 1,027,292; May 21; Sp. p. 4880; Gaz. vol. 178; p. 821.
Steel Shoe Company. (See Ruthstein, Nathan M., assignor.)
Steel Tenon Manufacturing Company, The. (See McKnight, Richard, assignor.)
Steele, David R., Curtis Bay, assignor to H. D. Harvey, Baltimore, Md. Crucible-furnace. No. 1,029,090; June 11; Sp. p. 2224; Gaz. vol. 179; p. 380.
Steele, Edwin G. (See Sutton and Steele.)
Steele, George H. B., A. H. Boulter, and J. Hargreaves, Perth, Western Australia, Australia. Spark-arrester. No. 1,023,769; Apr. 16; Sp. p. 4220; Gaz. vol. 177; p. 741.
Steele, Herbert H., Marcellus, assignor to The Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 1,013,964; Jan. 9; Sp. p. 1961; Gaz. vol. 174; p. 332.
Steele, Herbert H., Marcellus, assignor to The Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 1,014,673; Jan. 16; Sp. p. 3529; Gaz. vol. 174; p. 605.
Steele, Herbert H., Marcellus, assignor to The Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 1,014,783; Jan. 16; Sp. p. 3769; Gaz. vol. 174; p. 641.
Steele, Herbert H., Marcellus, assignor to The Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 1,016,043; Jan. 30; Sp. p. 6486; Gaz. vol. 174; p. 1129.

Alphabetical list of patentees—Continued.

Steele, Herbert H., Marcellus, assignor to The Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 1,018,639; Feb. 27; Sp. p. 5371; Gaz. vol. 175; p. 931.
Steele, Herbert H., Marcellus, assignor to The Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 1,018,786; Feb. 27; Sp. p. 5683; Gaz. vol. 175; p. 982.
Steele, Herbert H., Marcellus, assignor to The Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 1,020,227; Mar. 12; Sp. p. 2611; Gaz. vol. 176; p. 443.
Steele, Herbert H., Marcellus, assignor to The Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 1,021,953; Apr. 2; Sp. p. 433; Gaz. vol. 177; p. 70.
Steele, Herbert H., Marcellus, assignor to The Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 1,023,535; Apr. 16; Sp. p. 3780; Gaz. vol. 177; p. 668.
Steele, Herbert H., Marcellus, assignor to The Monarch Typewriter Company, Syracuse, N. Y. Combined type-writing and computing machine. No. 1,023,687; Apr. 16; Sp. p. 4079; Gaz. vol. 177; p. 716.
Steele, Herbert H., Marcellus, assignor to The Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 1,023,891; Apr. 23; Sp. p. 4532; Gaz. vol. 177; p. 811.
Steele, Herbert H., Marcellus, assignor to The Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 1,024,157; Apr. 23; Sp. p. 5136; Gaz. vol. 177; p. 903.
Steele, Herbert H., Marcellus, assignor to The Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 1,025,544; May 7; Sp. p. 983; Gaz. vol. 178; p. 152.
Steele, Herbert H., Marcellus, assignor to The Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 1,030,029; June 18; Sp. p. 4265; Gaz. vol. 179; p. 739.
Steele, Herbert H., Marcellus, assignor to The Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 1,032,090; July 9; Gaz. vol. 180; p. 469.
Steele, Herbert H., Marcellus, assignor to The Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 1,037,076; Aug. 27; Gaz. vol. 181; p. 1009.
Steele, Herbert H., Marcellus, assignor to The Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 1,043,166; Nov. 5; Gaz. vol. 184; p. 43.
Steele, Herbert H., Marcellus, assignor to The Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 1,044,100; Nov. 12; Gaz. vol. 184; p. 401.
Steele, Herbert H., Marcellus, assignor to The Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 1,044,285; Nov. 12; Gaz. vol. 184; p. 464.
Steele, Herbert H., Marcellus, assignor to Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 1,045,452; Nov. 26; Gaz. vol. 184; p. 928.
Steele, Herbert H., assignor to The Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 1,026,372; May 14; Sp. p. 2840; Gaz. vol. 178; p. 470.
Steele, Ira E., Hartley, Iowa. Vulcanizer. No. 1,043,167; Nov. 5; Gaz. vol. 184; p. 44.
Steele, James, Brookville, Pa. Nut-locking device. No. 1,021,559; Mar. 26; Sp. p. 5440; Gaz. vol. 176; p. 979.
Steele, Walter L. (See Sutton and Steele.)
Steele, William J., Sterling, Kans. Plow attachment. No. 1,040,049; Oct. 1; Gaz. vol. 183; p. 126.
Steelman, Lewis, Millville, N. J. Glass-delivering machine. No. 1,021,904; Apr. 2; Sp. p. 320; Gaz. vol. 177; p. 53.
Steen, Halfdan A., Milwaukee, Wis., assignor to Allis-Chalmers Company. Rheostat. No. 1,016,793; Feb. 6; Sp. p. 1252; Gaz. vol. 175; p. 193.
Steen, Halfdan A., Milwaukee, Wis., assignor to Allis-Chalmers Company. Time-element circuit-breaker. No. 1,030,030; June 18; Sp. p. 4271; Gaz. vol. 179; p. 740.
Steen, Halfdan A., Milwaukee, Wis., assignor to Allis-Chalmers Company. Motor-control system. No. 1,030,548; June 25; Sp. p. 5479; Gaz. vol. 179; p. 961.
Steen, Halfdan A., Milwaukee, Wis., assignor to Allis-Chalmers Company. Liquid rheostat. No. 1,030,850; June 25; Sp. p. 6439; Gaz. vol. 179; p. 1072.
Steen, Halfdan A., Milwaukee, Wis., assignor to Allis-Chalmers Company. System of control. No. 1,031,096; July 2; Gaz. vol. 180; p. 88.
Steen, Halfdan A., Norwood, Ohio, assignor to Allis-Chalmers Company. Potential starter. No. 1,048,907; Dec. 31; Gaz. vol. 185; p. 1211.
Steen, William, Uhrichsville, Ohio. Chisel-holder. No. 1,024,039; Apr. 23; Sp. p. 4864; Gaz. vol. 177; p. 862.
Steer, Alfred G., assignor to Dairymen's Supply Co., Lansdowne, Pa. Bottle rinsing and sterilizing apparatus. No. 1,030,139; June 18; Sp. p. 4498; Gaz. vol. 179; p. 776.
Steere, Harold H., *et al.* (See Andel, Joseph, assignor.)
Steers, William E., Whitehill, Caterham, England. Sighting of short-barreled weapons. No. 1,021,905; Apr. 2; Sp. p. 322; Gaz. vol. 177; p. 53.
Steese, Jay C., Akron, Ohio. Shade-holder. No. 1,045,628; Nov. 26; Gaz. vol. 184; p. 992.
Stefanowitch, Lazar, assignor of one-half to C. Kavacewich, Chicago, Ill. Calendar-pen. No. 1,037,356; Sept. 3; Gaz. vol. 182; p. 60.
Stefanowski, Joseph. (See Kuehl and Stefanowski.)
Steffan, Eugene. (See Brucelarie and Steffan.)
Steffen, Alfred P., *et al.* (See Bock, George R., assignor.)
Steffen, Carl, Vienna, Austria-Hungary. Extracting sugar-juices. No. 1,015,650; Jan. 23; Sp. p. 5652; Gaz. vol. 174; p. 966.
Steffens-Amberg Co., The. (See Fox, Thomas A., assignor.)
Steffy, Simon K., Harrisburg, and H. H. Naylor, Marietta, Pa. Duplex air-compressor. No. 1,041,693; Oct. 15; Gaz. vol. 183; p. 746.
Stegeman, John D., Alameda, Cal. Lumber-jack. No. 1,013,826; Jan. 2; Sp. p. 1605; Gaz. vol. 174; p. 256.
Steger & Sons Piano Manufacturing Company. (See Betz, William G., assignor.)
Stegman, Frank C., Kalamazoo, Mich. Box or package. No. 1,035,258; Aug. 13; Gaz. vol. 181; p. 317.
Stegmeyer, Joseph W. (See Stegmeyer, William P., assignor.)
Stegmeyer, William P., assignor to J. W. Stegmeyer, East St. Louis, Ill. Draft-evener. No 1,046,890; Dec. 10; Gaz. vol. 185; p. 419.
Stehle, O. A. (See Vogel, Joseph O., assignor.)
Stehli, Henry J., Montclair, assignor to Dwight Lloyd Metallurgical Company, Jersey City, N. J. Apparatus for use in treating ores. No. 1,027,084; May 21; Sp. p. 4457; Gaz. vol. 178; p. 751.
Stehlin, Joseph, New York, N. Y. Producing stock food. No. 1,036,925; Aug. 27; Gaz. vol. 181; p. 957.
Stehlin, Joseph, New York, N. Y. Producing stock food. No. 1,037,357; Sept. 3; Gaz. vol. 182; p. 60.
Steiger, Eduard, St. Gallen, Switzerland. Bleaching. No. 1,034,658; Aug. 6; Gaz. vol. 181; p. 84.
Steiger, Emil H. (See Jerrems, Thomas W., assignor.)
Steiger, Eugen, Zürich, Switzerland. Inking-pad. No. 1,044,702; Nov. 19; Gaz. vol. 184; p. 639.
Steiger, Peter J., Newark, N. J. Stay-hinge. No. 1,042,985; Oct. 29; Gaz. vol. 183; p. 1252.
Steiger, Walter V. (See Wallace and Steiger.)
Steiger, Walter V., Bridgeport, Conn. Friction-clutch. No. 1,013,848; Jan. 2; Sp. p. 1668; Gaz. vol. 174; p. 264.
Steiger, Walter V., assignor to The Bryant Electric Company, Bridgeport, Conn. Electric snap-switch. No. 1,020,231; Mar. 12; Sp. p. 2621; Gaz. vol. 176; p. 444.
Steimer, Rufin, Oberwyl, near Zug, Switzerland. Apparatus for fettering maniacs and criminals. No. 1,047,457; Dec. 17; Gaz. vol. 185; p. 647.
Steimle, Emanuel, Salt Lake City, Utah. Spring-tire. No. 1,023,770; Apr. 16; Sp. p. 4221; Gaz. vol. 177; p. 742.
Stein, Albert, Kansas City, Mo. Silencing attachment for pianos. No. 1,038,015; Sept. 10; Gaz. vol. 182; p. 315.
Stein, Georg V., assignor of one-third to A. F. Cabel, Washington, and one-third to H. Weill, Indianapolis, Ind. Spring-wheel. No. 1,014,533; Jan. 9; Sp. p. 3158; Gaz. vol. 174; p. 526.
Stein, George W., Chicago, Ill. Window-screen. No. 1,018,215; Feb. 20; Sp. p. 4396; Gaz. vol. 175; p. 756.
Stein, Heinrich, Cologne, Germany. Electromagnetic separator. No. 1,048,223; Dec. 24; Gaz. vol. 185; p. 938.
Stein, Leo, New York, assignor of one-half to J. C. Dehls, Brooklyn, N. Y. Compound for use in brewing fermented beverages. No. 1,024,158; Apr. 23; Sp. p. 5145; Gaz. vol. 177; p. 903.
Stein, Oscar, New York, N. Y. Toy device. No. 1,048,600; Dec. 31; Gaz. vol. 185; p. 1104.
Stein, Peter W., Homestead, Pa. Nut-locking device. No. 1,024,291; Apr. 23; Sp. p. 5428; Gaz. vol. 177; p. 951.
Stein, Samuel. (See Cody, Robert D., assignor.)
Stein, Samuel H., Los Angeles, Cal. Loose-leaf binder. No. 1,027,085; May 21; Sp. p. 4460; Gaz. vol. 178; p. 752.
Stein, Sydney. (See Armbrust, Charles W., assignor.)
Steinau, Rudolf. (See Broemme and Steinau.)
Steinberg, Samuel, Laporte, Ind. Watch-bow. No. 1,026,061; May 14; Sp. p. 2134; Gaz. vol. 178; p. 363.
Steinberger, Louis, New York, N. Y. High-potential insulator. No. 1,040,050; Oct. 1; Gaz. vol. 183; p. 126.
Steinberger, Samuel T., Peoria, Ill. Motor-cycle stand. No. 1,039,838; Oct. 1; Gaz. vol. 183; p. 57.
Steinbrenner, Andrew G., Cleveland, Ohio. Bracket-support for vehicle-tops. No. 1,016,653; Feb. 6; Sp. p. 961; Gaz. vol. 175; p. 145.
Steinbrenner, William J., Buffalo, N. Y. Carbureter. No. 1,016,108; Jan. 30; Sp. p. 6627; Gaz. vol. 174; p. 1152.
Steinbrunn, John J., Pitcairn, Pa. Boring-bar. No. 1,031,484; July 2; Gaz. vol. 180; p. 222.
Steiner, Barnette T. (See Thomas, Jesse R., assignor.)
Steiner, Herbert L., Providence, R. I. Pin. No. 1,042,496; Oct. 29; Gaz. vol. 183; p. 1083.
Steiner, Hugo. (See Baling, John G., assignor.)
Steinert, Paul, Dresden, Germany. Roundabout. No. 1,041,187; Oct. 15; Gaz. vol. 183; p. 578.

Alphabetical list of patentees—Continued.

Steinert, Rudolph, New Haven, Conn. Phonograph-needle. No. 1,039,208; Sept. 24; Gaz. vol. 182; p. 772.
Steinert Sons & Company, William. (See Malocsay, Francis X., assignor.)
Steingruber, George. (See McNeil and Steingruber.)
Steinhagen, Bismarck A., *et al.* (See Lanaux, Alfred A., assignor.)
Steinhart, Eugen, Dusseldorf, assignor to Rheinische Metallwaaren- und Maschinenfabrik, Dusseldorf-Derendorf, Germany. Ammunition-wagon. No. 1,038,453; Sept. 10; Gaz. vol. 182; p. 465.
Steinhouse, Clarence L. (See Steinhouse, Harry B. and C. L.)
Steinhouse, Harry B. and C. L., Cairo, Ill. Bolt. No. 1,028,795; June 4; Sp. p. 1560; Gaz. vol. 179; p. 244.
Steinkrüger, *née* Engelskirchen, Maria. (See Wolff, Albert, assignor.)
Steinle, Adolf, assignor to Firm of C. Zeiss, Jena, Germany. Hinged double telescope. No. 1,022,340; Apr. 2; Sp. p. 1229; Gaz. vol. 177; p. 196.
Steinmann, Adolf E. H., Bettendorf, Iowa. Grain-door for box-cars. No. 1,037,077; Aug. 27; Gaz. vol. 181; p. 1009.
Steinmetz, Charles P., Schenectady, N. Y., assignor to General Electric Company. Filament-support for incandescent lamps. No. 1,013,965; Jan. 9; Sp. p. 1962; Gaz. vol. 174; p. 332.
Steinmetz, Charles P., Schenectady, N. Y., assignor to General Electric Company. Electric lighting. No. 1,020,323; Mar. 12; Sp. p. 2784; Gaz. vol. 176; p. 472.
Steinmetz, Charles P., Schenectady, N. Y., assignor to General Electric Company. Means for producing light. No. 1,025,932; May 7; Sp. p. 1837; Gaz. vol. 178; p. 284.
Steinmetz, Charles P., Schenectady, N. Y., assignor to General Electric Company. Alternating-current rectifier. No. 1,037,558; Sept. 3; Gaz. vol. 182; p. 129.
Steinmetz, Charles P., Schenectady, N. Y., assignor to General Electric Company. Induction-furnace. No. 1,042,986; Oct. 29; Gaz. vol. 183; p. 1252.
Steinmetz, Charles P., Schenectady, N. Y., assignor to General Electric Company. Insulating composition and making the same. No. 1,049,005; Dec. 31; Gaz. vol. 185; p. 1245.
Steinmüller, Lebrecht, Gummersbach, Germany. Water-tube boiler. No. 1,026,532; May 14; Sp. p. 3170; Gaz. vol. 178; p. 524.
Steitler, Lizzie, Owensboro, Ky. Bake-pan. No. 1,021,640; Mar. 26; Sp. p. 5593; Gaz. vol. 176; p. 1005.
Stelle, Charles C., New York, N. Y. Sap-spout. No. 1,042,834; Oct. 29; Gaz. vol. 183; p. 1201.
Steller, Charles, and E. N. Clark, Seattle, Wash. Mop-wringer. No. 1,044,101; Nov. 12; Gaz. vol. 184; p. 401.
Stellwagen, Benjamin J., Chicago, Ill. Recording and indicating device for multiple payments. No. 1,038,225; Sept. 10; Gaz. vol. 182; p. 383.
Stempel, Carl H., Fort Madison, Iowa. Shutter-releaser. No. 1,044,938; Nov. 19; Gaz. vol. 184; p. 719.
Stendal, Astor M., Brainerd, Minn. Trousers-stretcher. No. 1,015,093; Jan. 16; Sp. p. 4449; Gaz. vol. 174; p. 748.
Stendebach, John P., Fruitvale, Cal. Non-refillable bottle. No. 1,018,993; Feb. 27; Sp. p. 6128; Gaz. vol. 175; p. 1053.
Stender, John F., Chicago, Ill., assignor to The Adams & Westlake Company. Instrument-lamp. No. 1,034,936; Aug. 6; Gaz. vol. 181; p. 179.
Stender, William, Streator, Ill. Bottle-conveyer. No. 1,043,548; Nov. 5; Gaz. vol. 184; p. 180.
Stengel, Charles W., and E. T. Witchel, Philadelphia, Pa. Ice-brake for sleds. No. 1,035,650; Aug. 13; Gaz. vol. 181; p. 453.
Stenger, John. (See Aimé and Stenger.)
Stenger, W. H. (See Swett, William H., assignor.)
Stenger, William H., *et al.* (See Frederickson, Clayton E., assignor.)
Stensby, Julius L., Evansville, Wis. Check-row corn-planter. No. 1,031,741; July 9; Gaz. vol. 180; p. 352.
Stenz, Bernard F., assignor to Simplex Lithograph Company, New York, N. Y. Sample-card. No. 1,047,849; Dec. 17; Gaz. vol. 185; p. 785.
Stenz, John, Brooklyn, N. Y. Gearing. No. 1,026,184; May 14; Sp. p. 2406; Gaz. vol. 178; p. 405.
Stepanek, Anton, Newcastle, Ind. Headlight for automobiles. No. 1,021,275; Mar. 26; Sp. p. 4823; Gaz. vol. 176; p. 880.
Stephan, John, Milwaukee, Wis. Fire-escape. No. 1,026,285; May 14; Sp. p. 2631; Gaz. vol. 178; p. 440.
Stephan, John C., Jr. (See Drury, Clarence H., assignor.)
Stephan, Louis A., St. Louis, Mo. Gearing for washing-machines. No. 1,022,977; Apr. 9; Sp. p. 2616; Gaz. vol. 177; p. 445.
Stephan, Valentine. (See Wilson, Andrew J., assignor.)
Stephan, Walter G., Cleveland, and C. E. Beard, Columbiana, Ohio. Automatic electric excavating-bucket. No. 1,043,640; Nov. 5; Gaz. vol. 184; p. 211.
Stephani, Otto. (See Benrath, Damm, and Stephani.)
Stephen, John, Alameda, Cal. Non-refillable bottle. No. 1,034,742; Aug. 6; Gaz. vol. 181; p. 114.
Stephen, John E. (See Lewis and Stephen.)
Stephens-Adamson Manufacturing Company. (See Dull, Raymond W., assignor.)
Stephens, Annie W., New York, N. Y. Therapeutic device for the treatment of the eyes or ears. No. 1,020,724; Mar. 19; Sp. p. 3665; Gaz. vol. 176; p. 645.
Stephens, Geo. W., *et al.* (See Leonard, Marshal L., assignor.)
Stephens, George, Jr., Danvers, Ill. Hog-suspending device. No. 1,017,185; Feb. 13; Sp. p. 2128; Gaz. vol. 175; p. 364.
Stephens, Harry A., Missoula, Mont. Closure for vessels. No. 1,034,321; July 30; Gaz. vol. 180; p. 1336.
Stephens, James S., Bono, Ark. Rail-joint. No. 1,045,453; Nov. 26; Gaz. vol. 184; p. 928.
Stephens, Jesse T., Sr., assignor of one-third to C. W. Hagan, Duncan, Okla. Automatic cutting and tying device for baling-presses. No. 1,046,891; Dec. 10; Gaz. vol. 185; p. 419.
Stephens, John A., and W. J. Shenk, Kansas City, Mo. Combination grate and burner. No. 1,016,236; Jan. 30; Sp. p. 6860; Gaz. vol. 174; p. 1192.
Stephens, Louis K., Dallas, Tex. Vehicle-wheel. No. 1,023,598; Apr. 16; Sp. p. 3928; Gaz. vol. 177; p. 690.
Stephens, Lynn, Cockrum, Miss. Plow. No. 1,047,850; Dec. 17; Gaz. vol. 185; p. 786.
Stephens, Mariah R. (See Stephens, Walter C., assignor.)
Stephens, Mary A., *et al.* (See Sears, James A. W., assignor.)
Stephens, R. M., *et al.* (See Brodton, Edward R., assignor.)
Stephens, Samuel, West Somerville, Mass. Printer's furniture. No. 1,024,606; Apr. 30; Sp. p. 6189; Gaz. vol. 177; p. 1092.
Stephens, Sterling, Bushnell, Fla. Spraying device. No. 1,016,109; Jan. 30; Sp. p. 6629; Gaz. vol. 174; p. 1152.
Stephens, W. F., *et al.* (See Sears, James A. W., assignor.)
Stephens, Walter C., assignor to M. R. Stephens, Aplin, N. D. Automatic guiding device. No. 1,041,366; Oct. 15; Gaz. vol. 183; p. 639.
Stephens, William C., Cornwall, England. Cradle for rock-drills and other machines. No. 1,047,586; Dec. 17; Gaz. vol. 185; p. 693.
Stephens, William E., assignor to Aermore Manufacturing Company, Chicago, Ill. Automobile-horn. No. 1,015,595; Jan. 23; Sp. p. 5533; Gaz. vol. 174; p. 947.
Stephens, William E., assignor to Aermore Manufacturing Company, Chicago, Ill. Automobile-horn. No. 1,036,023; Aug. 20; Gaz. vol. 181; p. 615.
Stephens, Winston, New Bedford, Mass., and H. M. Gaston, Newport, R. I. Spring-wheel for automobiles and other vehicles. No. 1,035,058; Aug. 6; Gaz. vol. 181; p. 218.
Stephenson, Charles G., Denver, Colo. Spring-frame for motor-cycles. No. 1,029,771; June 18; Sp. p. 3694; Gaz. vol. 179; p. 651.
Stephenson, Charles G., Denver, Colo. Spring-frame for motor-cycles. No. 1,043,269; Nov. 5; Gaz. vol. 184; p. 79.
Stephenson, David C. (See Stephenson, John W. and D. C.)
Stephenson, Frederick G., assignor to Osborne and Stephenson Manufacturing Company, Plainville, Conn. Boat-compass. No. 1,043,478; Nov. 5; Gaz. vol. 184; p. 155.
Stephenson, John W., Toledo, assignor to The National Malleable Castings Company, Cleveland, Ohio. Journal-box. No. 1,025,888; May 7; Sp. p. 1750; Gaz. vol. 178; p. 269.
Stephenson, John W., Toledo, assignor to The National Malleable Castings Company, Cleveland, Ohio. Fastening for rail-joints and the like. No. 1,031,966; July 9; Gaz. vol. 180; p. 430.
Stephenson, John W., Toledo, assignor to The National Malleable Castings Company, Cleveland, Ohio. Track-fastening. No. 1,031,967; July 9; Gaz. vol. 180; p. 430.
Stephenson, John W., Toledo, assignor to The National Malleable Castings Company, Cleveland, Ohio. Track-fastening. No. 1,031,968; July 9; Gaz. vol. 180; p. 430.
Stephenson, John W., Toledo, assignor to The National Malleable Castings Company, Cleveland, Ohio. Track-anchor. No. 1,043,739; Nov. 5; Gaz. vol. 184; p. 243.
Stephenson, John W. and D. C., Toledo, assignors to The National Malleable Castings Company, Cleveland, Ohio. Rail-anchor. No. 1,031,969; July 9; Gaz. vol. 180; p. 431.
Stephenson, Joseph E., Youngstown, Ohio. Washbowl. No. 1,020,324; Mar. 12; Sp. p. 2786; Gaz. vol. 176; p. 472.
Stephenson Motor Truck Company. See Marble, George W., assignor.)
Stephenson, Thomas H., Holyoke, Mass. Instantaneous hot-water heater. No. 1,016,044; Jan. 30; Sp. p. 6493; Gaz. vol. 174; p. 1129.
Stephenson, Thomas H., assignor to The Matchless Heater Company, Holyoke, Mass. Instantaneous hot-water heater. No. 1,031,393; July 2; Gaz. vol. 180; p. 191.
Stephenson, William, Madison, Wis. Oar-lock. No. 1,042,289; Oct. 22; Gaz. vol. 183; p. 983.
Sterling Bronze Company. (See Wagner, Charles, assignor.)
Sterling, Charles A., East Orange, N. J. Curtain-fixture. No. 1,026,286; May 14; Sp. p. 2633; Gaz. vol. 178; p. 441.

Alphabetical list of patentees—Continued.

Sterling Development Company, The. (See White and Duryea, assignors.)
Sterling, Frederick W., Greenwood, Miss. Attachment for counters or the like. No. 1,036,367; Aug. 20; Gaz. vol. 181; p. 738.
Sterling-Meaker Company. (See Gierding, Charles E., assignor.)
Sterling, Thomas. (See Hargraves and McCord, assignors.)
Sterling Typewriter Company. (See Paulson, Charles J., assignor.)
Stern, George M. (See Auman, Daniel A. and G. C., assignors.)
Stern, Herman. (See Vinquist, Charles R., assignor.)
Stern, Louis, Newark, N. J. Unhairing hides and skins. No. 1,019,854; Mar. 12; Sp. p. 1806; Gaz. vol. 176; p. 317.
Stern, Max, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Cholesterin preparation. No. 1,034,161; July 30; Gaz. vol. 180; p. 1282.
Stern, Milton C. (See Nickol and Stern.)
Stern, Simon, Albuquerque, N. Mex. Tire-protector. No. 1,044,703; Nov. 19; Gaz. vol. 184; p. 639.
Sternau & Company, S. (See Barker, Walter G., assignor.)
Sternau & Company, S. (See Nelson, Charles, assignor.)
Sternberg, Ernst M., Milwaukee, Wis. Suspension-frame for transmission-gears. No. 1,027,447; May 28; Sp. p. 5196; Gaz. vol. 178; p. 911.
Sternberg, Harry, and J. Furby, Nashville, Ill. Gang or sulky plow. No. 1,029,033; June 11; Sp. p. 2095; Gaz. vol. 179; p. 361.
Sternberg, Rosalind. (See Harris and Sternberg.)
Sterner, Jasper, St. Benedict, Pa. Window shade and curtain support. No. 1,031,824; July 9; Gaz. vol. 180; p. 381.
Sterrick, Harrison D., Pittsburgh, Pa. Shaving-brush. No. 1,018,939; Feb. 27; Sp. p. 5996; Gaz. vol. 175; p. 1034.
Sterrick, Harrison D., Pittsburgh, Pa. Picture glass and mount. No. 1,032,515; July 16; Gaz. vol. 180; p. 659.
Stetson, Frank H., Lawrence, and R. N. Allen, Methuen, Mass., assignors to U. S. Bobbin & Shuttle Co., Providence, R. I. Bobbin-grip. No. 1,036,161; Aug. 20; Gaz. vol. 181; p. 665.
Stetson, Leon W., Whitman, Mass. Device for holding safety-razor blades. No. 1,028,626; June 4; Sp. p. 1218; Gaz. vol. 179; p. 187.
Stetson, Lucy H., *et al.* (See Woodhull, Frederick W., assignor.)
Stettiner Chamotte-Fabrik Actien-Gesellschaft vorm. Didier. (See Flaccus, Ludwig C., assignor.)
Stettiner Chamotte-Fabrik Actien-Gesellschaft vorm. Didier. (See Gohmann, Arthur, assignor.)
Stettiner Chamotte-Fabrik Actien-Gesellschaft vorm. Didier. (See Hohmann, Edmund, assignor.)
Stettiner Chamotte-Fabrik Actien-Gesellschaft vormals Didier. (See Jones, Arthur O., assignor.)
Steuart, Wilmot N., Brookfield, Ohio. Overshoe. No. 1,029,772; June 18; Sp. p. 3696; Gaz. vol. 179; p. 651.
Stevens, Alton J., Chicago, Ill. Projecting device. No. 1,027,448; May 28; Sp. p. 5198; Gaz. vol. 178; p. 911.
Stevens, Arthur L., New York, N. Y., assignor to C. B. Tewksbury, Boston, Mass. Machine for making tags. No. 1,014,916; Jan. 16; Sp. p. 4069; Gaz. vol. 174; p. 688.
Stevens, Byron, Oakland, Cal. Safety-valve. No. 1,028,627; June 4; Sp. p. 1219; Gaz. vol. 179; p. 187.
Stevens, Clarence D. (See Hayes and Stevens.)
Stevens, Clement H., Las Palmas, Gran Canaria, Canary Islands. Pneumatic hand-hammer. No. 1,030,212; June 18; Sp. p. 4663; Gaz. vol. 179; p. 801.
Stevens, Elbridge W., Baltimore, Md. Gas-making and charge-forming apparatus for internal-combustion engines. No. 1,048,224; Dec. 24; Gaz. vol. 185; p. 938.
Stevens, Enoch P., Morgan Park, Ill. Fire-brick arch for locomotive fire-boxes. No. 1,016,454; Feb. 6; Sp. p. 501; Gaz. vol. 175; p. 77.
Stevens, Frank C., assignor to Davis & Furber Machine Company, North Andover, Mass. Toothed cylinder. No. 1,022,896; Apr. 9; Sp. p. 2433; Gaz. vol. 177; p. 416.
Stevens, Frank C., assignor to Davis & Furber Machine Company, North Andover, Mass. Toothed cylinder. No. 1,031,097; July 2; Gaz. vol. 180; p. 89.
Stevens, Frederick A., Providence, R. I. Nose-guard for eyeglasses. No. 1,035,916; Aug. 20; Gaz. vol. 181; p. 580.
Stevens, Frederick A., Providence, R. I. Spectacles. No. 1,038,675; Sept. 17; Gaz. vol. 182; p. 574.
Stevens, Frederick A., Providence, R. I. Spectacles. No. 1,043,270; Nov. 5; Gaz. vol. 184; p. 79.
Stevens, George E., Lynn, Mass., assignor to General Electric Company. Arc-lamp hanger. No. 1,022,514; Apr. 9; Sp. p. 1597; Gaz. vol. 177; p. 286.
Stevens, George E., Lynn, Mass., assignor to General Electric Company. Resistance unit. No. 1,022,897; Apr. 9; Sp. p. 2434; Gaz. vol. 177; p. 416.
Stevens, George W. (See Demuth, Arthur B., assignor.)
Stevens, George W. (See Weiwoda, Mathias, assignor.)
Stevens, Hattie J. (See Hall, Oscar E., assignor.)
Stevens, Herbert A., Malden, Mass. Battery-holder. No. 1,023,178; Apr. 16; Sp. p. 3089; Gaz. vol. 177; p. 552.
Stevens, Jay W., Portland, Oreg. Assignment-card system. No. 1,047,851; Dec. 17; Gaz. vol. 185; p. 786.
Stevens, John A., Raynes Park, England. Lens for lamps. No. 1,031,207; July 2; Gaz. vol. 180; p. 127.
Stevens, John C., Malden, Mass., assignor to Acme Service Company. Calendar pad and holder. No. 1,036,741; Aug. 27; Gaz. vol. 181; p. 896.
Stevens, John E. (See Kirkman, Wilbert T., assignor.)
Stevens, John L., South Bend, Wash. Miter-box. No. 1,014,674; Jan. 16; Sp. p. 3540; Gaz. vol. 174; p. 605.
Stevens, Lawrence L. (See Sorenson, Edwin, assignor.)
Stevens, Le Roy W. (See Power, Jeffrey J., assignor.)
Stevens, Leon K., New York, N. Y., assignor to M. T. Davidson Company. Steam-pump. No. 1,042,497; Oct. 29; Gaz. vol. 183; p. 1084.
Stevens, Leslie, Glen Ridge, N. J. Hat. No. 1,024,750; Apr. 30; Sp. p. 6492; Gaz. vol. 177; p. 1143.
Stevens, Merton P., East Orange, N. J. Lamp-socket and shade-holder. No. 1,030,345; June 25; Sp. p. 4984; Gaz. vol. 179; p. 888.
Stevens, Natt F. (See West and Stevens.)
Stevens & Sons, M. T. (See Stone, George, assignor.)
Stevens, Sylvester G., assignor of one-half to A. B. Hostetter, Duluth, Minn. Motor-driven hand-cultivator. No. 1,038,454; Sept. 10; Gaz. vol. 182; p. 465.
Stevens, William H., New York, N. Y. Collar. No. 1,015,747; Jan. 23; Sp. p. 5853; Gaz. vol. 174; p. 998.
Stevens, William P., Indianapolis, Ind., assignor of one-fifth to C. L. Schmidt. Flotilla joining and steering mechanism. No. 1,038,676; Sept. 17; Gaz. vol. 182; p. 574.
Stevens, Willis F., assignor to Duplex Envelope & Printing Company, Richmond, Va. Envelop. No. 1,013,571; Jan. 2; Sp. p. 1037; Gaz. vol. 174; p. 167.
Stevenson, Archibald W. (See Sclater, William, assignor.)
Stevenson, Ashton G., assignor to Chicago Lino-Tabler Company, Chicago, Ill. Printing-rule. No. 1,049,165; Dec. 31; Gaz. vol. 185; p. 1299.
Stevenson, Bertha, Gloucester, Mass. Lunch-counter. No. 1,014,186; Jan. 9; Sp. p. 2426; Gaz. vol. 174; p. 407.
Stevenson, Charles A. (See Moyes and Stevenson.)
Stevenson, Charles H., East Las Vegas, N. Mex. Door-securer. No. 1,043,549; Nov. 5; Gaz. vol. 184; p. 181.
Stevenson, Charles H., assignor to Winchester Repeating Arms Co., New Haven, Conn. Paper-shell cartridge. No. 1,039,839; Oct. 1; Gaz. vol. 183; p. 57.
Stevenson, Clarence M., Los Angeles, Cal. Device for measuring interpupilary distance. No. 1,014,917; Jan. 16; Sp. p. 4075; Gaz. vol. 174; p. 688.
Stevenson, David B., Rankin, Pa. Utensil-handle. No. 1,022,978; Apr. 9; Sp. p. 2617; Gaz. vol. 177; p. 445.
Stevenson, Henry I. (See Clark and Stevenson.)
Stevenson, James A., and L. O. Phillips, New Castle, Pa. Water-closet. No. 1,025,655; May 7; Sp. p. 1228; Gaz. vol. 178; p. 189.
Stevenson, James E., Puyallup, Wash. Folding storm-front for automobiles. No. 1,024,658; Apr. 30; Sp. p. 6298; Gaz. vol. 177; p. 1110.
Stevenson, Mark D., Akron, Ohio. Transparent book-support. No. 1,017,698; Feb. 20; Sp. p. 3189; Gaz. vol. 175; p. 574.
Stevenson, Samuel P. (See Jones, Richard E., assignor.)
Stevenson, Sterling S., Washington, D. C. Exhaust-controlling mechanism. No. 1,024,375; Apr. 23; Sp. p. 5565; Gaz. vol. 177; p. 976.
Stevenson, William J. (See Sieben and Stevenson.)
Stevenson, William L., Chester, W. Va. Monkey-wrench. No. 1,027,925; May 28; Sp. p. 6238; Gaz. vol. 178; p. 1071.
Steventon, Walter J., Nesquehoning, Pa. Railway-tie. No. 1,018,787; Feb. 27; Sp. p. 5685; Gaz. vol. 175; p. 983.
Steward, Alden A., Rutland, Vt. Feeder for carbureters. No. 1,042,835; Oct. 29; Gaz. vol. 183; p. 1201.
Steward, Alden A. and G. H., Rutland, Vt. Engine-throttle. No. 1,030,140; June 18; Sp. p. 4500; Gaz. vol. 179; p. 777.
Steward, George H. (See Steward, Alden A. and G. H.)
Steward, John F., Chicago, Ill. Support for harvesting-machine reels. No. 1,045,210; Nov. 26; Gaz. vol. 184; p. 843.
Steward, John F., Chicago, Ill. Attachment to agricultural tractors. No. 1,045,338; Nov. 26; Gaz. vol. 184; p. 887.
Stewart, Albert P., *et al.* (See Williamson, John, assignor.)
Stewart, Alfred C., Los Angeles, Cal. Carbureting device for heavy fuels. No. 1,017,186; Feb. 13; Sp. p. 2129; Gaz. vol. 175; p. 364.
Stewart, Alfred C., Los Angeles, Cal. Mixing attachment for carbureters. No. 1,021,079; Mar. 26; Sp. p. 4393; Gaz. vol. 176; p. 815.
Stewart, Alfred C., Los Angeles, Cal. Auxiliary air-valve for carbureters. No. 1,026,533; May 14; Sp. p. 3171; Gaz. vol. 178; p. 524.
Stewart, Alfred C., Los Angeles, Cal. Carbureter. No. 1,029,897; June 18; Sp. p. 3995; Gaz. vol. 179; p. 695.

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Stewart, Alfred C., Los Angeles, Cal. Throttle for carbureters. No. 1,029,899; June 18; Sp. p. 4000; Gaz. vol. 179; p. 696.
Stewart, Alfred C., Los Angeles, Cal. Carbureter. No. 1,032,307; July 9; Gaz. vol. 180; p. 544.
Stewart, Alfred C., Los Angeles, Cal. Auxiliary air-valve for carbureters. No. 1,035,651; Aug. 13; Gaz. vol. 181; p. 453.
Stewart, Annie. (See Stewart, James S., assignor.)
Stewart, Benjamin F., Chicago, Ill. Gas-engine. No. 1,035,488; Aug. 13; Gaz. vol. 181; p. 398.
Stewart, Charles, Pittsburgh, Pa. Rail-joint. No. 1,026,718; May 21; Sp. p. 3579; Gaz. vol. 178; p. 623.
Stewart & Clark Manufacturing Company. (See Kocourek, Henry, assignor.)
Stewart, David A., Winnipeg, Manitoba, Canada. Sheaf-loader. No. 1,047,326; Dec. 17; Gaz. vol. 185; p. 603.
Stewart, Edward B. (See Daggett, William R., assignor.)
Stewart, Francis L., Murrysville, assignor to Maize Sugar & Cellulose Company, Pittsburgh, Pa. Manufacture of cellulose. No. 1,017,023; Feb. 13; Sp. p. 1750; Gaz. vol. 175; p. 307.
Stewart, Francis L., Murrysville, assignor to Maize Sugar & Cellulose Company, Pittsburgh, Pa. Preparing sugar-cane and maize juices. No. 1,018,994; Feb. 27; Sp. p. 6130; Gaz. vol. 175; p. 1053.
Stewart, George A., Ridley Park, Pa. Wrench. No. 1,033,839; July 30; Gaz. vol. 180; p. 1168.
Stewart, George C., Louisville, Ky. Fare-receptacle. No. 1,047,587; Dec. 17; Gaz. vol. 185; p. 694.
Stewart, Harland, San Francisco, Cal. Coupling. No. 1,044,590; Nov. 19; Gaz. vol. 184; p. 600.
Stewart Hartshorn Company. (See Hartshorn, Edmund F., assignor.)
Stewart, Horace P., Grand Rapids, Mich. Match-box. No. 1,047,718; Dec. 17; Gaz. vol. 185; p. 740.
Stewart, Idalia J., Portland, Oreg. Collar-supporter. No. 1,033,962; July 30; Gaz. vol. 180; p. 1212.
Stewart, James D., assignor of one-third to O. O. Laudig and one-third to W. F. Dickson, Chicago, Ill. Furnace. No. 1,038,677; Sept. 17; Gaz. vol. 182; p. 575.
Stewart, James S., assignor to A. Stewart, New York, N. Y. Lamp-receptacle. No. 1,016,718; Feb. 6; Sp. p. 1096; Gaz. vol. 175; p. 168.
Stewart, John F., Molesworth, Ontario, Canada. Sheaf-loader. No. 1,047,327; Dec. 17; Gaz. vol. 185; p. 603.
Stewart, John G., Vandergrift, Pa. Tire-chain. No. 1,042,166; Oct. 22; Gaz. vol. 183; p. 943.
Stewart, John K., Chicago, Ill. Magnetic speedometer. No. 1,033,840; July 30; Gaz. vol. 180; p. 1169.
Stewart, John K., Chicago, Ill. Magnetic speedometer. No. 1,038,016; Sept. 10; Gaz. vol. 182; p. 315.
Stewart, John K., Chicago, Ill. Carbureter. No. 1,046,344; Dec. 3; Gaz. vol. 185; p. 190.
Stewart, Lawson B., Rimersburg, Pa. Roundabout. No. 1,014,346; Jan. 9; Sp. p. 2810; Gaz. vol. 174; p. 464.
Stewart, Matthew A., Newark, N. J. Fire-bucket support. No. 1,027,011; May 21; Sp. p. 4254; Gaz. vol. 178; p. 725.
Stewart, Matthew A., Newark, N. J. Lawn-mower. No. 1,048,908; Dec. 31; Gaz. vol. 185; p. 1211.
Stewart, Robert. (See Kronenberger, Annie K., assignor.)
Stewart, Robert F., Omaha, assignor of one-half to C. M. Hare and one-half to H. N. Oldson, Grand Island, Nebr. Mechanical stoker. No. 1,014,534; Jan. 9; Sp. p. 3159; Gaz. vol. 174; p. 526.
Stewart, Samuel A. (See Baldwin, William G., assignor.)
Stewart, Samuel A. (See Pierce and Warren, assignors.)
Stewart, Thomas R. (See Humphrey and Stewart.)
Stewart, Walter J., Reno, Nev. Animal-trap. No. 1,017,479; Feb. 13; Sp. p. 2769; Gaz. vol. 175; p. 467.
Stewart, William, assignor of one-half to J. J. Scholfield, Providence, R. I. Globe-valve. No. 1,024,751; Apr. 30; Sp. p. 6494; Gaz. vol. 177; p. 1143.
Stewart, William C., Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Company, Paterson, N. J. Machine for cutting leather. No. 1,030,621; June 25; Sp. p. 5748; Gaz. vol. 179; p. 989.
Stewart, William F., St. Louis, Mo. Instantaneous water-heater. No. 1,028,146; June 4; Sp. p. 148; Gaz. vol. 179; p. 22.
Stewart, William G., and L. Gauermann, Philadelphia, Pa. Combined cabinet and printer for toilet-paper. No. 1,014,026; Jan. 9; Sp. p. 2097; Gaz. vol. 174; p. 352.
Stewart, William H., Kansas City, Kans. Steam-generator. No. 1,041,188; Oct. 15; Gaz. vol. 183; p. 578.
Stewart, William J., Jr., Beaver, Pa. Machinery-shafting. No. 1,032,163; July 9; Gaz. vol. 180; p. 495.
Steyding, William E., Lockport, N. Y. Currycomb. No. 1,030,141; June 18; Sp. p. 4503; Gaz. vol. 179; p. 777.
Steyer, Carl H., Mount Horeb, Wis. Tank-heater. No. 1,035,259; Aug. 13; Gaz. vol. 181; p. 318.
Steynis, Jan, Bay Shore, N. Y., assignor to Steynis Ozone Company. Apparatus for the production of ozone. No. 1,035,489; Aug. 13; Gaz. vol. 181; p. 399.
Steynis Ozone Company. (See Steynis, Jan, assignor.)
Stichter, Joseph L., Oswego, N. Y. Cover for collapsible tubes. No. 1,042,050; Oct. 22; Gaz. vol. 183; p. 905.
Stick, Samuel, Ridgeville, Ind. Fly-trap. No. 1,033,289; July 23; Gaz. vol. 180; p. 961.
Stickle, Cole, assignor to Open Coil Heater and Purifier Co., Indianapolis, Ind. Vacuum-valve mechanism. No. 1,015,596; Jan. 23; Sp. p. 5534; Gaz. vol. 174; p. 947.
Stickle, Frederick W., Newington, Conn. Manufacture of vanadium cast-iron. No. 1,046,232; Dec. 3; Gaz. vol. 185; p. 151.
Stieg, August, assignor to The Emerson Typewriter Co., Woodstock, Ill. Back-feed mechanism for type-writers. No. 1,018,995; Feb. 27; Sp. p. 6132; Gaz. vol. 175; p. 1053.
Stieg, August, assignor to The Emerson Typewriter Co., Woodstock, Ill. Holder for type-writer escapement mechanisms. No. 1,021,641; Mar. 26; Sp. p. 5594; Gaz. vol. 176; p. 1005.
Stiehl, Otto M., East St. Louis, Ill. Knockdown receptacle. No. 1,038,017; Sept. 10; Gaz. vol. 182; p. 316.
Stieler, Martin, Chicago, Ill. Chimney-mold. No. 1,041,367; Oct. 15; Gaz. vol. 183; p. 639.
Stier, Eugene A., and R. C. Byrd, Dayton, Ohio. Portable steam-vulcanizer. No. 1,026,229; May 14; Sp. p. 2520; Gaz. vol. 178; p. 422.
Stier, Henry A. (See Glines and Stier.)
Stiff, Gilbert, Ovid, Mich. Collapsible phonograph-horn. No. 1,049,166; Dec. 31; Gaz. vol. 185; p. 1299.
Stift, Carl, Honolulu, Hawaii. Lock-cock. No. 1,015,094; Jan. 16; Sp. p. 4451; Gaz. vol. 174; p. 749.
Stiggins, Edward A., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Cutting device. No. 1,027,510; May 28; Sp. p. 5318; Gaz. vol. 178; p. 932.
Stiles, Archibald, Obar, N. Mex. Broom-holder. No. 1,041,189; Oct. 15; Gaz. vol. 183; p. 578.
Stiles, Edward M., Mount Pleasant, Iowa. Device for handling dates, dried fruit, and the like. No. 1,043,168; Nov. 5; Gaz. vol. 184; p. 44.
Stiles, Edward M., Mount Pleasant, Iowa. Meat-stacker. No. 1,043,878; Nov. 12; Gaz. vol. 184; p. 323.
Stiles, Edward M. and T. H., Mount Pleasant, Iowa. Rind-removing attachment for meat-slicing machines. No. 1,028,796; June 4; Sp. p. 1560; Gaz. vol. 179; p. 244.
Stiles, George A., Somerville, Mass. Collar-fastener. No. 1,041,368; Oct. 15; Gaz. vol. 183; p. 639.
Stiles, Thomas G., Arlington, N. J. Circuit-controller. No. 1,030,622; June 25; Sp. p. 5753; Gaz. vol. 179; p. 989.
Stiles, Thomas H. (See Stiles, Edward M. and T. H.)
Stiles, Winthrop A., Philadelphia, Pa. Circuit making and breaking device. No. 1,020,522; Mar. 19; Sp. p. 3210; Gaz. vol. 176; p. 575.
Stilke, August, Buffalo, N. Y. Rail-tie fastener. No. 1,026,373; May 14; Sp. p. 2843; Gaz. vol. 178; p. 471.
Still, Frederick R., Detroit, Mich., assignor to American Blower Company, Green Island, N. Y. Centrifugal fan. No. 1,020,725; Mar. 19; Sp. p. 3667; Gaz. vol. 176; p. 645.
Still, Marcus D., *et al.* (See Bryant, William A., assignor.)
Still, Vernon B., Patchogue, N. Y. Muffler. No. 1,048,435; Dec. 24; Gaz. vol. 185; p. 1008.
Still, William H. (See Wilson and Still.)
Still, William J., Southall, England. Internal-combustion engine. No. 1,015,216; Jan. 16; Sp. p. 4672; Gaz. vol. 174; p. 789.
Still, William J., Southall, England. Internal-combustion engine. No. 1,015,217; Jan. 16; Sp. p. 4675; Gaz. vol. 174; p. 789.
Stiller, Wenzel. (See Kitchen and Stiller.)
Stilling, Louis J. (See Daggett and Stilling.)
Stilling, Louis J. (See Decker and Stilling.)
Stilling, Louis J., Newark, N. J. Vacuum-bottle. No. 1,031,884; July 9; Gaz. vol. 180; p. 403.
Stillman, George B. (See Sutcliffe and Stillman.)
Stillman, Howard, Berkeley, Cal. Car-brake. No. 1,034,659; Aug. 6; Gaz. vol. 181; p. 84.
Stillman, Oscar B., Washingtonville, N. Y. Adjustable stall. No. 1,016,182; Jan. 30; Sp. p. 6754; Gaz. vol. 174; p. 1174.
Stillwell, Joseph S., West Orange, N. J. Malted whey. No. 1,041,896; Oct. 22; Gaz. vol. 183; p. 854.
Stilson, Minott A. O., Waterbury, Conn. Railway-tie. No. 1,037,559; Sept. 3; Gaz. vol. 182; p. 129.
Stilwell, Charles B., Wayne, Pa. Kinetoscope. No. 1,045,905; Dec. 3; Gaz. vol. 185; p. 38.
Stilwell-Wilson Telephone Company. (See Wilson, David H., assignor.)
Stimpson, Edward S., assignor to Draper Company, Hopedale, Mass. Automatically-threading shuttle. No. 1,017,065; Feb. 13; Sp. p. 1854; Gaz. vol. 175; p. 322.
Stimpson, Edward S., assignor to Draper Company, Hopedale, Mass. Automatic filling-replenishing mechanism for looms. No. 1,019,098; Mar. 5; Sp. p. 198; Gaz. vol. 176; p. 32.
Stimpson, Edward S., assignor to Draper Company, Hopedale, Mass. Hopper mechanism for automatic looms. No. 1,019,855; Mar. 12; Sp. p. 1808; Gaz. vol. 176; p. 317.

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Stimpson, Edward S., assignor to Draper Company, Hopedale, Mass. Magazine-stop for weft-replenishing looms. No. 1,038,678; Sept. 17; Gaz. vol. 182; p. 575.
Stimpson, Edward S., assignor to Draper Company, Hopedale, Mass. Magazine-stop for weft-replenishing looms. No. 1,038,679; Sept. 17; Gaz. vol. 182; p. 576.
Stimpson, Edwin B., New York, N. Y., assignor to Edwin B. Stimpson Company. Rivet. No. 1,013,625; Jan. 2; Sp. p. 1159; Gaz. vol. 174; p. 184.
Stimpson, Wallace I., and A. E. Rhoades, assignors to Draper Company, Hopedale, Mass. Warp stop-motion for looms. No. 1,013,966; Jan. 9; Sp. p. 1964; Gaz. vol. 174; p. 333.
Stimpson, Walter F., Detroit, Mich., assignor, by mesne assignments, to The Commercial Savings Bank & Trust Company, trustee, Toledo, Ohio. Scale. No. 1,041,369; Oct. 15; Gaz. vol. 183; p. 640.
Stimson, Henry W., assignor to J. G. Williams, Snyder, Tex. Center-piece for buggy neck-yokes. No. 1,027,926; May 28; Sp. p. 6239; Gaz. vol. 178; p. 1071.
Stine, John E. (See Stine, John W. and J. E.)
Stine, John W. and J. E., San Francisco, Cal. Hose-coupling. No. 1,022,759; Apr. 9; Sp. p. 2171; Gaz. vol. 177; p. 372.
Stine, Peter, Congo, Ohio. Safety elevator device. No. 1,013,232; Jan. 2; Sp. p. 315; Gaz. vol. 174; p. 50.
Stinebaugh, Conrad O., assignor to General Charcrete Company, Seattle, Wash. Composition of matter. No. 1,020,325; Mar. 12; Sp. p. 2787; Gaz. vol. 176; p. 472.
Stineman, William H. H., assignor of one-third to A. Wegefarth, Baltimore, Md. Stoker. No. 1,032,164; July 9; Gaz. vol. 180; p. 495.
Stinger, Samuel K., Jr., and H. K. Robinson, Philadelphia, Pa. Means to electrically control street-switches. No. 1,025,545; May 7; Sp. p. 989; Gaz. vol. 178; p. 153.
Stinson, Spencer A., Blairstown, N. J. Reducing-valve. No. 1,040,807; Oct. 8; Gaz. vol. 183; p. 417.
Stinson, William A., Greenwood, Miss. Swingletree and trace connection. No. 1,017,024; Feb. 13; Sp. p. 1760; Gaz. vol. 175; p. 307.
Stinson, William A., Greenwood, Miss. Whiffletree and trace connection. (Reissue.) No. 13,380; Mar. 5; Sp. p. 1602; Gaz. vol. 176; p. 250.
Stites, Amos B., Plainfield, N. J. Rear signal for automobiles. No. 1,033,208; July 23; Gaz. vol. 180; p. 933.
Stitt, Curtis R., Lincoln, Nebr. Non-refillable bottle. No. 1,048,225; Dec. 24; Gaz. vol. 185; p. 938.
Stluka, Rudolph A., St. Louis, Mo. Packing and shipping case. No. 1,020,463; Mar. 19; Sp. p. 3076; Gaz. vol. 176; p. 557.
Stobbe, Michael J., and P. J. Conley, Pittsburgh, Pa. Concrete monument. No. 1,035,260; Aug. 13; Gaz. vol. 181; p. 318.
Stobrawa, Karl, Gleiwitz, Germany. Means for removing slag from hearth-furnaces. No. 1,025,027; Apr. 30; Sp. p. 7050; Gaz. vol. 177; p. 1239.
Stock, August, assignor to Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany. Yellowish-green pigment dyes and making same. No. 1,043,271; Nov. 5; Gaz. vol. 184; p. 80.
Stock, August, and F. Heim, assignors to Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany. Dyestuff of the triphenylmethane series and making same. No. 1,042,498; Oct. 29; Gaz. vol. 183; p. 1084.
Stock Company Temperator, The. (See Casse, Wolff F. E., assignor.)
Stock, Eleanor L. (See Bosanko, William J., assignor.)
Stock, Nicholas, and J. N. Cordts, Kingston, N. Y. Foldable chair. No. 1,027,012; May 21; Sp. p. 4255; Gaz. vol. 178; p. 726.
Stock, Robert, New York, N. Y. Spring-wheel. No. 1,014,858; Jan. 16; Sp. p. 3955; Gaz. vol. 174; p. 669.
Stock, Robert, Berlin, Germany. Steering device for power-propelled vehicles. No. 1,022,160; Apr. 2; Sp. p. 866; Gaz. vol. 177; p. 137.
Stock, Robert, Berlin, Germany. Dust-guard for wheels. No. 1,048,369; Dec. 24; Gaz. vol. 185; p. 987.
Stock, Robert, Silver Creek, N. Y. Spring-wheel. No. 1,031,098; July 2; Gaz. vol. 180; p. 89.
Stock, William, Baxter, Iowa. Float-valve. No. 1,032,308; July 9; Gaz. vol. 180; p. 545.
Stockall, Alfred H., Bath, England. Printer's galley for use with the mono or other type casting machines. No. 1,038,018; Sept. 10; Gaz. vol. 182; p. 316.
Stockelbach, Fritz E., assignor to Frederick Stearns & Company, Detroit, Mich. Manufacturing diacetyl-paramido-phenol. No. 1,034,528; Aug. 6; Gaz. vol. 181; p. 43.
Stocker, Georg, Hanau, Germany. Automatic cartridge-exploding device. No. 1,013,967; Jan. 9; Sp. p. 1967; Gaz. vol. 174; p. 333.
Stocker, Louis, Grahamton, Ky. Razor-sharpening compound. No. 1,027,927; May 28; Sp. p. 6240; Gaz. vol. 178; p. 1072.
Stocker, Theodore, Covington, Ky. Vending apparatus. No. 1,044,591; Nov. 19; Gaz. vol. 184; p. 600.
Stockford, Charles E., *et al.* (See Stockford, Thomas E., assignor.)
Stockford, Thomas E., assignor of one-fourth to C. W. Blevin, one-fourth to H. H. Retter, Williams, and one-fourth to C. E. Stockford, San Leandro, Cal. Nut-lock. No. 1,031,970; July 9; Gaz. vol. 180; p. 431.
Stockhausen, Julius, Krefeld, Germany. Removing fat and impurities from vegetable and animal materials. No. 1,035,815; Aug. 13; Gaz. vol. 181; p. 508.
Stocking, Bert A., Newton, Iowa. Wrench. No. 1,027,220; May 21; Sp. p. 4734; Gaz. vol. 178; p. 795.
Stocking, Lewis D. (See Stanfield and Stocking.)
Stockman, Erastus L., Adams, Nebr. Portable water supply and heating system. No. 1,027,928; May 28; Sp. p. 6240; Gaz. vol. 178; p. 1072.
Stockmann, Theodor, Wilmersdorf, near Berlin, Germany. Fire-pot for engines. No. 1,017,336; Feb. 13; Sp. p. 2450; Gaz. vol. 175; p. 416.
Stockmeir, Hans. (See Hahnefeld, Ernst H., assignor.)
Stockton, Charles, Philadelphia, Pa. Bottle-filling machine. No. 1,048,909; Dec. 31; Gaz. vol. 185; p. 1212.
Stockton, Elmer E., assignor to The Ingraham Co., Bristol, Conn. Alarm-clock. No. 1,046,036; Dec. 3; Gaz. vol. 185; p. 81.
Stockton, Lincoln C., assignor to The Acme Utility Company, Denver, Colo. Portable face-mask for telephone use. No. 1,021,434; Mar. 26; Sp. p. 5177; Gaz. vol. 176; p. 937.
Stockton, Marvin. (See Stockton, Thomas R. and M.)
Stockton, Thomas R. and M., Dyer, Tenn. Portable camp-stove, including washing boiler or kettle. No. 1,040,451; Oct. 8; Gaz. vol. 183; p. 292.
Stockwell, Charles M. (See Brown, George M., assignor.)
Stoddard, Carlton J., Salt Lake City, Utah. Room-cooling apparatus. No. 1,024,159; Apr. 23; Sp. p. 5147; Gaz. vol. 177; p. 903.
Stoddard, Charles F., Boston, Mass. Note-sheet for player-pianos and the like. No. 1,025,077; Apr. 30; Sp. p. 7143; Gaz. vol. 177; p. 1254.
Stoddard, Charles F., Boston, Mass., assignor to Lamson Consolidated Store Service Company, Newark, N. J. Pneumatic-despatch-tube apparatus. No. 1,031,742; July 9; Gaz. vol. 180; p. 353.
Stoddard, John H., Stevensville, N. Y. Label-holder. No. 1,044,704; Nov. 19; Gaz. vol. 184; p. 639.
Stoddard, Thomas G., and G. H. Barbour, assignors to The American Postal Machines Company, Boston, Mass. Mail-marking machine. No. 1,046,037; Dec. 3; Gaz. vol. 185; p. 82.
Stoddart, James, Newark, assignor to E. J. and C. A. Schroeder, Jersey City, N. J. Shade-holder. No. 1,039,676; Sept. 24; Gaz. vol. 182; p. 936.
Stodder, Frank W., West Somerville, Mass. Flying-machine. No. 1,035,396; Aug. 13; Gaz. vol. 181; p. 368.
Stoecklin, Ernest, Ridgefield Park, N. J. Tool-holder. No. 1,022,760; Apr. 9; Sp. p. 2173; Gaz. vol. 177; p. 372.
Stoelting Brothers Co. (See Moore, Jay W., assignor.)
Stoen, June G., Cresbard, S. D. Sleigh. No. 1,034,529; Aug. 6; Gaz. vol. 181; p. 43.
Stöger, Josef, Munich, Germany. Obstetrical device. No. 1,019,099; Mar. 5; Sp. p. 200; Gaz. vol. 176; p. 32.
Stöger, Josef, Munich, Germany. Obstetrical device. No. 1,029,034; June 11; Sp. p. 2096; Gaz. vol. 179; p. 361.
Stoker, John W., Marion, Ind. Balancing device. No. 1,021,276; Mar. 26; Sp. p. 4825; Gaz. vol. 176; p. 880.
Stoker, John W., Marion, Ind. Power-transmitting device. No. 1,043,641; Nov. 5; Gaz. vol. 184; p. 212.
Stokes, Jeremiah, Jr., East Mill Creek, Utah. Sand-band for vehicles. No. 1,025,329; May 7; Sp. p. 495; Gaz. vol. 178; p. 77.
Stokes, John S. (See Webb and Stokes.)
Stokes, John W. (See Cook, Elbridge C., assignor.)
Stokes & Smith Company. (See Webb and Stokes, assignors.)
Stokes, William E. D., *et al.* (See Larsson, Thure, assignor.)
Stokes, William E. D. (See Stokes and Davis, assignors.)
Stokes, William E. D., Jr., New York, N. Y., and G. W. Davis, Galilee, N. J., assignors to W. E. D. Stokes, New York, N. Y. Tuning device for wireless telegraphy and telephony. No. 1,043,272; Nov. 5; Gaz. vol. 184; p. 80.
Stolberg, Mason F., Toledo, Ohio. Tire-inflating apparatus. No. 1,028,628; June 4; Sp. p. 1221; Gaz. vol. 179; p. 187.
Stoley, Henry E., Woodburn, Oreg. Fence-post. No. 1,015,651; Jan. 23; Sp. p. 5654; Gaz. vol. 174; p. 966.
Stoll, Alvin J., Parkman, Ohio. Strangler. No. 1,035,059; Aug. 6; Gaz. vol. 181; p. 218.
Stoll, Corus D., Kansas City, Mo. Refrigerator. No. 1,019,100; Mar. 5; Sp. p. 201; Gaz. vol. 176; p. 32.
Stoll, Julius E. (See Fischer and Stoll.)
Stollberg, Charles, Toledo, Ohio, assignor to American Can Company, New York, N. Y. Sheet-steel keg. No. 1,015,355; Jan. 23; Sp. p. 5005; Gaz. vol. 174; p. 864.
Stollberg, Charles, Toledo, Ohio, assignor to American Can Company, New York, N. Y. Orchard-heater. No. 1,044,705; Nov. 19; Gaz. vol. 184; p. 640.

Alphabetical list of patentees—Continued.

Stollberg, Charles, Toledo, Ohio, assignor to American Can Company, New York, N. Y. Manufacturing one-piece folded sheet-metal sap-receptacles. No. 1,048,754; Dec. 31; Gaz. vol. 185; p. 1158.
Stollberg, Charles, Toledo, Ohio, assignor to American Can Company, New York, N. Y. Oyster-display refrigerator. No. 1,048,755; Dec. 31; Gaz. vol. 185; p. 1158.
Stolp, Frank H., assignor, by mesne assignments, to Rome-Turney Radiator Company, Rome, N. Y. Radiator. No. 1,048,107; Dec. 24; Gaz. vol. 185; p. 899.
Stolp, Louis W., Washington, D. C. Safety appliance for flying-machines. No. 1,029,475; June 11; Sp. p. 3057; Gaz. vol. 179; p. 512.
Stolp, Samuel S., assignor of one-half to W. J. C. Kenyon, Chicago, Ill. Block-signal system for electric railways. No. 1,016,975; Feb. 13; Sp. p. 1654; Gaz. vol. 175; p. 291.
Stolts, Martin, South Dayton, N. Y. Vegetable-harvester. No. 1,016,976; Feb. 13; Sp. p. 1658; Gaz. vol. 175; p. 291.
Stoltze, Oskar, Altona, assignor to O. F. C. Gosch, Hamburg, Germany. Vending-machine. No. 1,020,667; Mar. 19; Sp. p. 3539; Gaz. vol. 176; p. 623.
Stolz, Friedrich, assignor to Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany. 1-p-dimethylaminophenyl-3.4.4-trimethyl-5-pyrazolone and making same. No. 1,017,699; Feb. 20; Sp. p. 3191; Gaz. vol. 175; p. 574.
Stolz, Friedrich, and F. Flächer, assignors to Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany. Derivatives of dioxydiaminoarsenobenzene and making same. No. 1,048,002; Dec. 24; Gaz. vol. 185; p. 863.
Stone, Albert H., Boston, Mass. Depilatory and making it. No. 1,041,897; Oct. 22; Gaz. vol. 183; p. 854.
Stone, Alonzo, assignor of one-half to J. W. Davis, Coalgate, Okla. Rotary engine. No. 1,026,474; May 14; Sp. p. 3060; Gaz. vol. 178; p. 504.
Stone, Arthur C., Providence, R. I. Perforating-machine. No. 1,015,356; Jan. 23; Sp. p. 5007; Gaz. vol. 174; p. 865.
Stone, Caroline W., Newton Center, Mass. Bird-cage protector. No. 1,015,766; Jan. 23; Sp. p. 5892; Gaz. vol. 174; p. 1004.
Stone, Donald B., Springville, Iowa. Corn-pick. No. 1,018,788; Feb. 27; Sp. p. 5687; Gaz. vol. 175; p. 983.
Stone, Elmer B., assignor to The Corbin Cabinet Lock Company, New Britain, Conn. Lock. No. 1,016,455; Feb. 6; Sp. p. 503; Gaz. vol. 175; p. 77.
Stone, Elmer B., assignor to The Corbin Cabinet Lock Company, New Britain, Conn. Lock. No. 1,018,216; Feb. 20; Sp. p. 4397; Gaz. vol. 175; p. 756.
Stone, Fenn O., Cincinnati, Ohio. Means of wrapping and packing cakes. No. 1,017,337; Feb. 13; Sp. p. 2452; Gaz. vol. 175; p. 417.
Stone & Forsyth. (See Forsyth, James B., assignor.)
Stone, George, assignor to M. T. Stevens & Sons, North Andover, Mass. Tension-governor for yarn-winding apparatus. No. 1,022,979; Apr. 9; Sp. p. 2619; Gaz. vol. 177; p. 446.
Stone, George H., Colorado Springs, Colo. Surveying instrument. No. 1,032,437; July 16; Gaz. vol. 180; p. 633.
Stone, Granville B., Boston, Mass. Manikin ball-player. No. 1,036,024; Aug. 20; Gaz. vol. 181; p. 615.
Stone, Harold S., Boston, Mass. Means for regulating electric lamps. No. 1,048,003; Dec. 24; Gaz. vol. 185; p. 863.
Stone, Henry B., Providence, R. I. Telephone repeater system. No. 1,025,167; May 7; Sp. p. 125; Gaz. vol. 178; p. 22.
Stone, Henry W., San Diego, Cal. Puncturing, dispensing, and sealing device. No. 1,048,226; Dec. 24; Gaz. vol. 185; p. 938.
Stone, Richard H., Wilkinsburg, assignor to The Westinghouse Air Brake Company, Pittsburgh, Pa. Chart-exhibitor. No. 1,036,926; Aug. 27; Gaz. vol. 181; p. 957.
Stone, Richard T., Deming, N. Mex. Tunneling-machine. No. 1,026,412; May 14; Sp. p. 2922; Gaz. vol. 178; p. 484.
Stone, Samuel, Miles City, Mont. Thinning-machine. No. 1,016,110; Jan. 30; Sp. p. 6631; Gaz. vol. 174; p. 1152.
Stone, Simon D., Somerville, Mass. Trolley. No. 1,028,629; June 4; Sp. p. 1222; Gaz. vol. 179; p. 188.
Stone, Stuart R., New York, N. Y. Electric indicator system. No. 1,013,904; Jan. 9; Sp. p. 1820; Gaz. vol. 174; p. 312.
Stone, William, Milwaukee, Wis. Grinding-wheel guard. No. 1,042,618; Oct. 29; Gaz. vol. 183; p. 1127.
Stone, William E., Marblehead, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Sewing-machine. No. 1,030,836; June 25; Sp. p. 6400; Gaz. vol. 179; p. 1067.
Stone, William F., Woodbury, N. J., assignor to Star Seal Company. Bottle-sealing machine. No. 1,037,359; Sept. 3; Gaz. vol. 182; p. 60.
Stone, William T., *et al.* (See Bittner, Arthur G., assignor.)
Stone, Willman H., Bayard, Nebr. Plow. No. 1,023,771; Apr. 16; Sp. p. 4222; Gaz. vol. 177; p. 742.
Stoneham, Horace A., and C. T. Schwarze, South Orange, N. J. Resilient tire. No. 1,043,642; Nov. 5; Gaz. vol. 184; p. 212.
Stoner, Cyrus M., assignor to Boyts, Porter & Co., Connellsville, Pa. Valve. No. 1,038,455; Sept. 10; Gaz. vol. 182; p. 465.
Stonestreet, Arthur W., Pasadena, Cal., assignor to The Western Music Roll Company, Bakersfield, Cal. Music-sheet perforator. No. 1,033,633; July 23; Gaz. vol. 180; p. 1074.
Stoops, William, Eau Galle, Wis. Road-drag. No. 1,038,456; Sept. 10; Gaz. vol. 182; p. 466.
Stora Kopparbergs Bergslags Aktiebolag. (See Ekström, Per G., assignor.)
Storen, Andrew G. (See Mollberg and Storen.)
Storén, John O. (See Mollberg and Storen.)
Storer, Albert, assignor of one-half to J. Weigel, Boston, Mass. Recording-clock or time-stamp. No. 1,032,714; July 16; Gaz. vol. 180; p. 729.
Storer, Harry F., and W. W. Jamieson, Jr., Central City, Ky. Cut-off. No. 1,013,695; Jan. 2; Sp. p. 1350; Gaz. vol. 174; p. 210.
Storey, Isaac H. (See Kitchen and Storey.)
Storey, Isaac H., Ambleside, England. Flying-machine. No. 1,034,042; July 30; Gaz. vol. 180; p. 1241.
Stork, Frederick W., assignor, by mesne assignments, to Excel Manufacturing Company, Boston, Mass. Machine for cutting cloth, leather, and similar materials. No. 1,040,587; Oct. 8; Gaz. vol. 183; p. 341.
Stork, William, San Diego, Cal. Rotary brush. No. 1,040,808; Oct. 8; Gaz. vol. 183; p. 418.
Storm, Bull & Co. (See Sinding-Larsen, Alf, assignor.)
Storm, Carl, Ann Arbor, Mich. Collapsible umbrella. No. 1,018,941; Feb. 27; Sp. p. 5998; Gaz. vol. 175; p. 1034.
Storm, Katherine L., Philadelphia, Pa. Abdominal supporter. No. 1,029,955; June 18; Sp. p. 4126; Gaz. vol. 179; p. 714.
Storme, Peter, assignor to Hengler & Cronemeyer, Crefeld, Germany. Dough-molding machine. No. 1,018,640; Feb. 27; Sp. p. 5380; Gaz. vol. 175; p. 932.
Stormer, Sylvester. (See Gattone, Domenico, assignor.)
Storrs, Aaron P., assignor to Storrs Mica Company, Owego, N. Y. Burner for incandescent mantles. No. 1,015,851; Jan. 30; Sp. p. 6079; Gaz. vol. 174; p. 1059.
Storrs, Aaron P., assignor to Storrs Mica Company, Owego, N. Y. Headlight-chimney. No. 1,015,852; Jan. 30; Sp. p. 6080; Gaz. vol. 174; p. 1059.
Storrs, Aaron P., assignor to Storrs Mica Company, Owego, N. Y. Cylinder or globe for inverted incandescent gas-burners. No. 1,027,449; May 28; Sp. p. 5199; Gaz. vol. 178; p. 912.
Storrs, Fred C., assignor of one-half to F. Holton, Chicago, Ill. Bag-holder. No. 1,045,211; Nov. 26; Gaz. vol. 184; p. 844.
Storrs Mica Company. (See Storrs, Aaron P., assignor.)
Stott, Frederick R. L., and T. Crossen, Hamilton, Ontario, Canada. Handle for air-brake valves for railway-cars. No. 1,035,490; Aug. 13; Gaz. vol. 181; p. 399.
Stott, Joseph, Worcester, Mass. Bed-bottom. No. 1,028,915; June 11; Sp. p. 1843; Gaz. vol. 179; p. 320.
Stott, William J., Worcester, Mass. Bedclothes-holder. No. 1,044,592; Nov. 19; Gaz. vol. 184; p. 600.
Stoudt, William B., Bernhardts, Pa. Safety gas-burner. No. 1,029,830; June 18; Sp. p. 3834; Gaz. vol. 179; p. 672.
Stough, Fredrick P., Erie, Pa. Non-refillable bottle. No. 1,048,601; Dec. 31; Gaz. vol. 185; p. 1104.
Stough, Samuel M., and H. C. Larick, Frankfort, Ind. Pipe-threading machine. No. 1,035,491; Aug. 13; Gaz. vol. 181; p. 399.
Stoughton Wagon Company. (See Long, Willard O., assignor.)
Stout, Edward, and J. M. Knowles, Stockport, Iowa. Chicken-coop. No. 1,013,233; Jan. 2; Sp. p. 316; Gaz. vol. 174; p. 50.
Stout, Isaac R., Medicine Lodge, Kans. Pump. No. 1,014,675; Jan. 16; Sp. p. 3542; Gaz. vol. 174; p. 606.
Stout, Robert P. (See Meigs and Stout.)
Stout, Sacquill P., Salem, W. Va. Packing and storage receptacle. No. 1,043,273; Nov. 5; Gaz. vol. 184; p. 80.
Stovall, Smith L., Visalia, Cal. Concrete flume. No. 1,036,162; Aug. 20; Gaz. vol. 181; p. 666.
Stovel, Charles J., San Francisco, Cal. Pneumatic support for vehicles. No. 1,037,360; Sept. 3; Gaz. vol. 182; p. 61.
Stover, Elmer L. (See Stover, Everett H. and E. L.)
Stover Engine Works. (See Freidag, William F., assignor.)
Stover, Everett H. and E. L., Mount Sterling, Ill. Spacing-compasses for lettering. No. 1,033,634; July 23; Gaz. vol. 180; p. 1075.
Stover, Harmon E., assignor to The Baldwin Locomotive Works, Philadelphia, Pa. Stoker. No. 1,048,756; Dec. 31; Gaz. vol. 185; p. 1159.
Stover Manufacturing Company, The. (See McCulloch, Harry G., assignor.)
Stow, William H., and N. Vickery, Fennville, Mich. Adjustable nozzle for sprinkler-pipes. No. 1,033,486; July 23; Gaz. vol. 180; p. 1025.
Stowe, Benjamin L. (See Banta and Stowe.)

Alphabetical list of patentees—Continued.

Stowe, Bernard A., assignor to The Adams-Bagnall Electric Company, Cleveland, Ohio. Support for electric translating devices. No. 1,040,452; Oct. 8; Gaz. vol. 183; p. 292.
Stowell, Desrie A., assignor to Simplex Time Recorder Company, Gardner, Mass. Workman's time-recorder. No. 1,045,339; Nov. 26; Gaz. vol. 184; p. 888.
Stowell, F. M., *et al.* (See Chatfield, Franklin, assignor.)
Stowell, Tilton C., Mishawaka, Ind. Machine for gathering and husking corn. No. 1,027,013; May 21; Sp. p. 4256; Gaz. vol. 178; p. 726.
Stowell, William G., assignor to The W. G. Stowell Company, Dayton, Ohio. Semirotary motor. No. 1,025,933; May 7; Sp. p. 1844; Gaz. vol. 178; p. 284.
Straate, Frederick, *et al.* (See Bopp, Clinton L., assignor.)
Strache, Hugo, Vienna, Austria-Hungary. Means for indicating the production of gas. No. 1,018,942; Feb. 27; Sp. p. 5999; Gaz. vol. 175; p. 1034.
Strader, Perry T., Amarillo, Tex. Valve-controlling mechanism for train-air-brake systems. No. 1,029,477; June 11; Sp. p. 3061; Gaz. vol. 179; p. 513.
Stradtner, William. (See Potts, Emery E., assignor.)
Strafer, Aaron F., assignor to H. A. Holz, Cincinnati, Ohio. Grooving-tool. No. 1,026,004; May 14; Sp. p. 1994; Gaz. vol. 178; p. 344.
Strahan, Robert S., Brooklyn, N. Y. Muffler. No. 1,041,190; Oct. 15; Gaz. vol. 183; p. 579.
Strahl, Frank J., Danville, Ill. Drum attachment. No. 1,040,809; Oct. 8; Gaz. vol. 183; p. 418.
Straight, Bennett D., assignor to Multipost Company, Rochester, N. Y. Stamp-affixer. No. 1,021,218; Mar. 26; Sp. p. 4691; Gaz. vol. 176; p. 860.
Straight, Frederick L., Louisiana, Mo. Cigar-vending machine. No. 1,049,168; Dec. 31; Gaz. vol. 185; p. 1299.
Strain, William T., Hanlin Station, Pa. Governor. No. 1,027,221; May 21; Sp. p. 4736; Gaz. vol. 178; p. 796.
Straka, John. (See Lewis and Straka.)
Strale, Allan N. H., assignor of one-half to E. Block, Chicago, Ill. Fire-brick wall or lining for blast and other furnaces. No. 1,021,851; Apr. 2; Sp. p. 211; Gaz. vol. 177; p. 35.
Stranahan, Robert A., Toledo, Ohio. Spark-plug. No. 1,042,619; Oct. 29; Gaz. vol. 183; p. 1127.
Strand, Clarence, Gary, Minn. Electric-lamp bracket. No. 1,020,062; Mar. 12; Sp. p. 2242; Gaz. vol. 176; p. 386.
Strand, Henry, Cleveland, Ohio. Hot-air heater. No. 1,014,347; Jan. 9; Sp. p. 2812; Gaz. vol. 174; p. 465.
Strand, Magnus. (See Peri, Eva, assignor.)
Stranders, Julien, New York, N. Y., assignor to Selchow & Righter Company. Jumping-ring game. No. 1,013,827; Jan. 2; Sp. p. 1606; Gaz. vol. 174; p. 256.
Stranders, Julien, assignor to Seiter & Kappes Lithographing Co., New York, N. Y. Display device. No. 1,026,634; May 14; Sp. p. 3379; Gaz. vol. 178; p. 557.
Stranders, Julien, assignor to American Lithographic Company, New York, N. Y. Collapsible display device. No. 1,028,147; June 4; Sp. p. 150; Gaz. vol. 179; p. 23.
Stranders, Julien, New York, N. Y., assignor to H. B. Kruger. Advertising display device. No. 1,030,031; June 18; Sp. p. 4272; Gaz. vol. 179; p. 740.
Strandt, Gustav, Milwaukee, Wis. Bottle-capper. No. 1,040,453; Oct. 8; Gaz. vol. 183; p. 293.
Strang, William B. (See Nilson, Lars G., assignor.)
Strange, Benjamin F., Corvallis, Mont. Water-lift. No. 1,034,322; July 30; Gaz. vol. 180; p. 1337.
Strange, Edward H. (See Fernbach and Strange.)
Strange, Harry B., assignor to Thomas Firth and Sons, Limited, Sheffield, England. Fuse for projectiles. No. 1,048,910; Dec. 31; Gaz. vol. 185; p. 1212.
Strange, Henry C. (See Hall, Ina O., assignor.)
Stransky, Stephen, West Philadelphia, Pa. Hat-pin. No. 1,016,719; Feb. 6; Sp. p. 1099; Gaz. vol. 175; p. 169.
Strasser, John J., Chicago, Ill. Sand-blast machine. No. 1,039,840; Oct. 1; Gaz. vol. 183; p. 58.
Strater & Sons, Herman. (See Strater, Theodore G., Jr., assignor.)
Strater, Theodore G., Jr., West Tisbury, assignor to H. Strater & Sons, Boston, Mass. Tap or faucet. No. 1,034,043; July 30; Gaz. vol. 180; p. 1241.
Stratford, Egbert C. (See Dee, Daniel, assignor.)
Stratford, Frank B., Jersey City, N. J. Spring suspension. No. 1,031,394; July 2; Gaz. vol. 180; p. 191.
Strathus, Julius. (See Massohn and Strathus.)
Stratton, Charles D. (See Petrie and Stratton.)
Stratton, Eliphalet P., College Point, N. Y. Embankment. No. 1,026,616; May 14; Sp. p. 3337; Gaz. vol. 178; p. 551.
Stratton, Harrison D., Philadelphia, Pa. Gas-expansion header for refrigerating machinery. No. 1,031,885; July 9; Gaz. vol. 180; p. 403.
Stratton, Harry F., assignor to The Electric Controller and Manufacturing Company, Cleveland, Ohio. Electrical contact. No. 1,045,212; Nov. 26; Gaz. vol. 184; p. 844.
Stratton, James H. (See Pitkin and Stratton.)
Stratton, John, Altrincham, and E. A. Claremont, Old Trafford, Manchester, England. Apparatus for drawing wire. No. 1,015,913; Jan. 30; Sp. p. 6204; Gaz. vol. 174; p. 1082.
Stratton, John, Altrincham, and E. A. Claremont, Old Trafford, Manchester, England. Wire-drawing apparatus. No. 1,015,914; Jan. 30; Sp. p. 6208; Gaz. vol. 174; p. 1083.
Stratton, William H., Chicago, Ill. Light-shade bracket. No. 1,021,385; Mar. 26; Sp. p. 5040; Gaz. vol. 176; p. 918.
Straub, Ambrose W., Philadelphia, Pa. Feeding device for grinding-mills. No. 1,039,610; Sept. 24; Gaz. vol. 182; p. 914.
Straub, Clarence E., Middleburg, Pa. Wrench. No. 1,026,005; May 14; Sp. p. 1996; Gaz. vol. 178; p. 344.
Straub, Harman, Ensley, Ala. Draft-rigging for rolling-stock. No. 1,016,858; Feb. 6; Sp. p. 1380; Gaz. vol. 175; p. 213.
Straub, Jackson L., assignor to The Star Ball Retainer Company, Lancaster, Pa. Ball-retainer. No. 1,017,480; Feb. 13; Sp. p. 2770; Gaz. vol. 175; p. 467.
Straub, Louis, Denver, Colo. Towel-rack. No. 1,038,984; Sept. 17; Gaz. vol. 182; p. 681.
Straub, William B., Oakland, assignor of one-half to J. J. Knight, Alameda, Cal. Stamp-mill. No. 1,038,019; Sept. 10; Gaz. vol. 182; p. 316.
Straubel, Frederick L. G., Green Bay, Wis. Vertical filing-drawer. No. 1,013,234; Jan. 2; Sp. p. 319; Gaz. vol. 174; p. 51.
Straubel, Rudolf, assignor to Firm of C. Zeiss, Jena, Germany. Photographic objective. No. 1,025,766; May 7; Sp. p. 1450; Gaz. vol. 178; p. 228.
Straubel, Rudolf, assignor to Firm of C. Zeiss, Jena, Germany. Reflecting-prism. No. 1,044,102; Nov. 12; Gaz. vol. 184; p. 402.
Straubel, Rudolf, assignor to Firm of C. Zeiss, Jena, Germany. Reflector search-light. No. 1,046,673; Dec. 10; Gaz. vol. 185; p. 344.
Straubel, Rudolf, assignor to Firm of C. Zeiss, Jena, Germany. Producing lenses. No. 1,048,227; Dec. 24; Gaz. vol. 185; p. 939.
Straus, Albert I., Cincinnati, Ohio. Tobacco-pipe charger. No. 1,015,357; Jan. 23; Sp. p. 5008; Gaz. vol. 174; p. 865.
Straus, Joseph H., Jr., assignor of one-half to R. H. Williams, Baltimore, Md. Clip used in concrete construction. No. 1,018,018; Feb. 20; Sp. p. 3965; Gaz. vol. 175; p. 687.
Straus, Joseph H., Jr., assignor of one-half to R. H. Williams, Baltimore, Md. Wire-bending tool. No. 1,020,582; Mar. 19; Sp. p. 3353; Gaz. vol. 176; p. 596.
Straus, Joseph H., Jr., assignor of one-half to R. H. Williams, Baltimore, Md. Wire clip for concrete construction. No. 1,025,330; May 7; Sp. p. 496; Gaz. vol. 178; p. 77.
Straus, Philip R., New York, N. Y., assignor to Charter Shirt Company, Newark, N. J. Combination-garment. No. 1,024,477; Apr. 23; Sp. p. 5823; Gaz. vol. 177; p. 1012.
Strause, Edmund A. (See Haskell, Charles O., assignor.)
Strauss Brothers & Co. (See Nehr, Herman F., assignor.)
Strauss, David, assignor to Society of Chemical Industry in Basle, Basel, Switzerland. Manufacture of oxalates. No. 1,038,985; Sept. 17; Gaz. vol. 182; p. 681.
Strauss, Ferdinand, Yonkers, N. Y. Registering toy bank. No. 1,015,408; Jan. 23; Sp. p. 5126; Gaz. vol. 174; p. 881.
Strauss, Herman. (See Hess, Harry, assignor.)
Strauss, Joseph B., Chicago, Ill. Window, &c. No. 1,021,492; Mar. 26; Sp. p. 5306; Gaz. vol. 176; p. 956.
Strauss, Joseph B., Chicago, Ill. Bridge. No. 1,038,226; Sept. 10; Gaz. vol. 182; p. 383.
Strauss, Julian B., and C. L. Brown, New Orleans, La. Rotary rock-drill. No. 1,045,756; Nov. 26; Gaz. vol. 184; p. 1036.
Strauss, Siegmund. (See Lieben and Reisz, assignors.)
Straw, Charles A., Lansford, Pa. Automatic car-stopper. No. 1,046,345; Dec. 3; Gaz. vol. 185; p. 190.
Strawbridge & Chase Co. (See Coleman, Robert F., assignor.)
Strawn, Herman M., Marysville, Cal. Spring-wheel. No. 1,030,688; June 25; Sp. p. 5922; Gaz. vol. 179; p. 1012.
Strawser, George A., Pfouts Valley, assignor of one-half to A. L. Long, Millerstown, Pa. Spike. No. 1,025,596; May 7; Sp. p. 1099; Gaz. vol. 178; p. 170.
Strayer, Charles W., Los Angeles, Cal. Daily appointment-calendar. No. 1,018,641; Feb. 27; Sp. p. 5381; Gaz. vol. 175; p. 932.
Strayer, William J. (See Walker, Will, assignor.)
Strba, Michal, assignor of one-half to S. Bartec, Pittsburgh, Pa. Hat-pin-point protector. No. 1,023,688; Apr. 16; Sp. p. 4084; Gaz. vol. 177; p. 716.
Strebig, William B., Fort Wayne, Ind. Play-pipe pressure-equalizer. No. 1,048,004; Dec. 24; Gaz. vol. 185; p. 864.
Strecker-Aufermann, Hans, Munich, Germany. Preparing printing-plates in a grained manner. No. 1,014,740; Jan. 16; Sp. p. 3676; Gaz. vol. 174; p. 628.
Strecker, Friedrich, Salt Lake City, Utah. Wagon running-gear. No. 1,035,106; Aug. 6; Gaz. vol. 181; p. 235.

Alphabetical list of patentees—Continued.

Strecker, Otto C., Eberstadt, near Darmstadt, Germany. Etching fluid for flat printing-plates of metal. No. 1,022,274; Apr. 2; Sp. p. 1093; Gaz. vol. 177; p. 175.
Streeper, Charles W., Manheim, assignor to Bond Foundry & Machine Company, Philadelphia, Pa. Compression-coupling for shafts. No. 1,037,682; Sept. 3; Gaz. vol. 182; p. 171.
Street, Arthur. (See Siede and Street.)
Street, Daniel B. (See Crosthwaite, Walter G., assignor.)
Street, John O. B., Okemah, Okla. Grading cotton-seed. No. 1,025,028; Apr. 30; Sp. p. 7051; Gaz. vol. 177; p. 1239.
Street & Kent Mfg. Co. (See Dale, William B., assignor.)
Street, Victor H., Berkeley, Cal. Engine-room return-signal. No. 1,025,488; May 7; Sp. p. 860; Gaz. vol. 178; p. 133.
Streeter-Amet Weighing & Recording Company. (See Goetz, George, assignor.)
Streeter, Oscar C., administrator. (See Streeter, William A.)
Streeter, Roy R., Big Rapids, Mich. Sample-holder attachment for stock-boards. No. 1,014,420; Jan. 9; Sp. p. 2958; Gaz. vol. 174; p. 491.
Streeter, William A., deceased, Concord, Ill.; O. C. Streeter, administrator. Animal-handling tool. No. 1,019,727; Mar. 5; Sp. p. 1561; Gaz. vol. 176; p. 242.
Streib, John F. (See Lindström and Streib.)
Streich, Frank, St. Louis, Mo. Loaf-forming machine. No. 1,043,979; Nov. 12; Gaz. vol. 184; p. 360.
Streich, Frank, St. Louis, Mo., assignor to Champion Machinery Company, Joliet, Ill. Loaf-forming machine. No. 1,043,980; Nov. 12; Gaz. vol. 184; p. 360.
Streit, Albert W. (See Streit, Anton and A. W.)
Streit, Anton and A. W., Cincinnati, Ohio. Gas-stove. No. 1,014,421; Jan. 9; Sp. p. 2960; Gaz. vol. 174; p. 491.
Streit, George B. (See Moenck, Herman M., assignor.)
Streit, George B., Detroit, Mich. Easel. No. 1,020,583; Mar. 19; Sp. p. 3355; Gaz. vol. 176; p. 596.
Streng, Lawrence E., New Palestine, Ind. Corn-husking machine. No. 1,020,326; Mar. 12; Sp. p. 2788; Gaz. vol. 176; p. 472.
Stretch, Joseph, Freeport, N. Y., assignor to F. D. Lamble, Montclair, N. J. Mold for concrete buildings. No. 1,038,986; Sept. 17; Gaz. vol. 182; p. 681.
Stricker, Albert O., Clements, Minn. Bed-spring stretcher. No. 1,048,911; Dec. 31; Gaz. vol. 185; p. 1212.
Stricker, Ludwig L. (See Lanier, Lewis H., assignor.)
Strickland, James L., Westport, Nova Scotia, assignor to H. R. McLellan, St. John, Canada. Rotary internal-combustion engine. No. 1,019,856; Mar. 12; Sp. p. 1813; Gaz. vol. 176; p. 317.
Strickland, John. (See Hodgen, James R., assignor.)
Strickland, Julian M., Port Republic, N. J. Holder for fibrous lubricant-applicators. No. 1,047,852; Dec. 17; Gaz. vol. 185; p. 786.
Strickland, Matthew R., Perry, Fla. Turpentine puller-stock. No. 1,044,286; Nov. 12; Gaz. vol. 184; p. 464.
Strickler, David, Shelby, assignor of one-fourth to G. Styres, Tiro, Ohio. Rifle-bore cleaner. No. 1,015,915; Jan. 30; Sp. p. 6211; Gaz. vol. 174; p. 1083.
Strickler, Emerson H., White Plains, assignor to General Chemical Company, New York, N. Y. Making anhydrous sulfites and bisulfites. No. 1,023,179; Apr. 16; Sp. p. 3090; Gaz. vol. 177; p. 552.
Strickler, Emerson H., New York, N. Y., assignor to General Chemical Company. Effervescent compound. No. 1,037,078; Aug. 27; Gaz. vol. 181; p. 1009.
Strickler, Emerson H., assignor to General Chemical Company, New York, N. Y. Making tri-alkali phosphate. No. 1,037,837; Sept. 3; Gaz. vol. 182; p. 220.
Strickler, William H., Chicago, Ill. Transporting and elevating device. No. 1,017,117; Feb. 13; Sp. p. 1979; Gaz. vol. 175; p. 340.
Strickler, Wilson H., Columbus, Ohio. Heat-resisting vulcanized fabric. No. 1,048,912; Dec. 31; Gaz. vol. 185; p. 1213.
Stridiron, Hugh B., *et al.* (See Holtz, Emerson E., assignor.)
Strietelmeier, Henry W., Linton, Ind. Mold. No. 1,030,754; June 25; Sp. p. 6091; Gaz. vol. 179; p. 1036.
Strietelmeier, John E., assignor to The Ideal Wheel Company, Cincinnati, Ohio. Wheel. No. 1,019,101; Mar. 5; Sp. p. 203; Gaz. vol. 176; p. 33.
Strieth, Heinrich, Nuremberg, Germany. Plant for producing paper-pulp and freeing it from liquid. No. 1,023,445; Apr. 16; Sp. p. 3610; Gaz. vol. 177; p. 641.
Stringer, Francis G., Nelson, British Columbia, Canada. Lock for wearing-apparel. No. 1,022,980; Apr. 9; Sp. p. 2621; Gaz. vol. 177; p. 446.
Stringer, James D. (See Chappel, Christopher C., assignor.)
Stringfellow, Garland L., *et al.* (See Quinn, William E., assignor.)
Stripe, Mahlon A., Geneva, Ill. Rail-joint. No. 1,021,013; Mar. 26; Sp. p. 4267; Gaz. vol. 176; p. 792.
Strite, Charles P., assignor to Cedar Rapids Foundry & Machine Company, Cedar Rapids, Iowa. Governor pulley device. No. 1,026,330; May 14; Sp. p. 2741; Gaz. vol. 178; p. 457.
Strittmatter, Thomas P., Philadelphia, Pa. Electrolier. No. 1,024,160; Apr. 23; Sp. p. 5148; Gaz. vol. 177; p. 904.
Strobach, Rudolf, Prague-Zizkow, Austria-Hungary. Distilling wood. No. 1,015,519; Jan. 23; Sp. p. 5356; Gaz. vol. 174; p. 918.
Strobot, Frank P., Chicago, Ill. Adjustable mattress rest or support. No. 1,037,361; Sept. 3; Gaz. vol. 182; p. 61.
Strock, Joseph G., Trindle Spring, Pa. Bath-seat. No. 1,017,700; Feb. 20; Sp. p. 3192; Gaz. vol. 175; p. 574.
Stroh, George. (See Faller, Oscar, assignor.)
Stroh, George, Detroit, Mich. Bung. No. 1,028,148; June 4; Sp. p. 151; Gaz. vol. 179; p. 23.
Stroh, George, Detroit, Mich. Tap. No. 1,029,727; June 18; Sp. p. 3610; Gaz. vol. 179; p. 636.
Stroh, Sigmund, London, England. Seal for packing-cases. No. 1,018,943; Feb. 27; Sp. p. 6000; Gaz. vol. 175; p. 1035.
Strohbach, Fritz, Charlottenburg, Germany, assignor to General Electric Company. Centrifugal pump or compressor. No. 1,013,329; Jan. 2; Sp. p. 535; Gaz. vol. 174; p. 85.
Strohmenger, Arthur P., Westminster, London, England. Electric deposition of metals. No. 1,041,525; Oct. 15; Gaz. vol. 183; p. 691.
Strohn, Emil W., Buffalo, N. Y. Condensing apparatus. No. 1,017,338; Feb. 13; Sp. p. 2453; Gaz. vol. 175; p. 417.
Stromberg-Carlson Telephone Manufacturing Company. (See Clausen, Henry P., assignor.)
Stromberg-Carlson Telephone Manufacturing Company. (See Dyson, Alfred H., assignor.)
Stromberg-Carlson Telephone Manufacturing Company. (See Eidam, Edward G., assignor.)
Stromberg-Carlson Telephone Manufacturing Company. (See Goodrum, Charles L., assignor.)
Stromberg-Carlson Telephone Manufacturing Company. (See Leich and Hague, assignors.)
Stromberg-Carlson Telephone Manufacturing Company. (See Temple, David L., assignor.)
Stromborg, Fritz O., Seattle, Wash. Feeder for dry separators. No. 1,028,797; June 4; Sp. p. 1566; Gaz. vol. 179; p. 244.
Stromborg, Fritz O., Seattle, Wash. Separator. No. 1,042,836; Oct. 29; Gaz. vol. 183; p. 1201.
Stromeyer, Julius, Philadelphia, Pa. Power-transmitting device. No. 1,040,588; Oct. 8; Gaz. vol. 183; p. 342.
Strong, Earl G., Milan, Ohio. Bowling-alley. No. 1,044,593; Nov. 19; Gaz. vol. 184; p. 601.
Strong, Eli C., Sheffield, England. Diamond-holder. No. 1,033,749; July 23; Gaz. vol. 180; p. 1110.
Strong, Frederick A., Bridgeport, Conn., assignor to Weed Chain Tire Grip Company, New York, N. Y. Tire-repair device. No. 1,030,032; June 18; Sp. p. 4273; Gaz. vol. 179; p. 740.
Strong, Frederick F., St. Petersburg, Fla. Apparatus for dissecting pulpy and fibrous plants. No. 1,013,235; Jan. 2; Sp. p. 320; Gaz. vol. 174; p. 51.
Strong, Frederick F., St. Petersburg, Fla. Pulp-separator. No. 1,023,280; Apr. 16; Sp. p. 3293; Gaz. vol. 177; p. 588.
Strong, Frederick M., Indianapolis, and J. W. Ferguson, Richmond, Ind. Water-softener. No. 1,048,757; Dec. 31; Gaz. vol. 185; p. 1159.
Strong, George H., assignor to The Grove Products Company, Warwick, N. Y. Horse and cattle food. No. 1,013,696; Jan. 2; Sp. p. 1351; Gaz. vol. 174; p. 210.
Strong, Harry J., and S. Ostrander, Chicago, Ill.; said Ostrander assignor to said Strong. Piano-lock. No. 1,040,963; Oct. 8; Gaz. vol. 183; p. 467.
Strong, Henry S., Mead, Wash. Illuminating device. No. 1,043,981; Nov. 12; Gaz. vol. 184; p. 360.
Strong, Leslie P., assignor to The Clark Manufacturing Company, Cleveland, Ohio. Automatic engine-stop. No. 1,036,742; Aug. 27; Gaz. vol. 181; p. 896.
Strong, Marquis H., deceased, Rochester, N. Y.; S. J. Strong, Decatur, Mich., and H. A. Ensign, Rochester, N. Y., administrators. Toilet-case for vehicles. No. 1,027,362; May 21; Sp. p. 5017; Gaz. vol. 178; p. 845.
Strong, Samuel J., *et al.*, administrators. (See Strong, Marquis H.)
Strong, Willard L., La Center, Wash. Music-leaf turner. No. 1,040,454; Oct. 8; Gaz. vol. 183; p. 293.
Stroota, Oscar W., Abbotsford, Wis. Cheese-hoop. No. 1,018,789; Feb. 27; Sp. p. 5688; Gaz. vol. 175; p. 983.
Strother, Martin L., assignor of one-half to W. Vorlaufer, Tonopah, Nev. Car-replacer. No. 1,016,376; Feb. 6; Sp. p. 305; Gaz. vol. 175; p. 48.
Strother, Robert H., Montclair, assignor, by mesne assignments, to Union Typewriter Company, Jersey City, N. J. Combined type-writing and computing machine. No. 1,034,375; July 30; Gaz. vol. 180; p. 1357.
Strother, Robert H., Montclair, assignor to Union Typewriter Company, Jersey City, N. J. Type-writing machine. No. 1,046,893; Dec. 10; Gaz. vol. 185; p. 420.
Stroud, Charles M., Minneapolis, Minn. Carbureter. No. 1,044,594; Nov. 19; Gaz. vol. 184; p. 601.
Stroud, Thomas L., Washington, D. C., assignor to The National Cash Register Company. Mechanical cashier. No. 1,035,652; Aug. 13; Gaz. vol. 181; p. 454.
Stroud, William. (See Barr and Stroud.)

Alphabetical list of patentees—Continued.

Stroup, Daniel W., North Braddock, Pa. Apparatus for forming axles. No. 1,024,532; Apr. 30; Sp. p. 5997; Gaz. vol. 177; p. 1067.
Stroup, Stuart C., assignor of one-half to C. W. Dobyns, Speedwell, Va. Comb. No. 1,031,485; July 2; Gaz. vol. 180; p. 222.
Strouse, Frank H., Oskaloosa, Iowa. Locomotive-stoker. No. 1,044,939; Nov. 19; Gaz. vol. 184; p. 720.
Strouse, Frank L., Williamsport, Pa. Rail-joint. No. 1,030,549; June 25; Sp. p. 5481; Gaz. vol. 179; p. 962.
Strouse, William, and W. E. Clark, Hughesville; said Strouse assignor to J. K. Rishel Furniture Co., Williamsport, Pa. Bolt-operating mechanism. No. 1,019,282; Mar. 5; Sp. p. 619; Gaz. vol. 176; p. 96.
Strozzi, Max. (See Rovelli, Angelo C., assignor.)
Strub, Gustave A. (See Jones and Strub.)
Struble, James F., Hanston, assignor of one-half to J. Burns, Burdett, Kans. Hydraulic propeller. No 1,024,376; Apr. 23; Sp. p. 5566; Gaz. vol. 177; p. 976
Struble, Walter B., Jr., Portland, Oreg. Dentimeter. No. 1,036,927; Aug. 27; Gaz. vol. 181; p. 958.
Struckmeyer, Edward H. (See Recktenwald, John, assignor.)
Struller, Otto, New York, N. Y. Gas-igniter. No. 1,039,612; Sept. 24; Gaz. vol. 182; p. 914.
Strumpf, Hermann, Berlin, Germany. Atomizer. No. 1,035,261; Aug. 13; Gaz. vol. 181; p. 318.
Strumpf, Hermann, assignor to C. Pflugbeil & Co., Berlin, Germany. Fountain. No. 1,036,368; Aug. 20; Gaz. vol. 181; p. 739.
Struss, Henry W., New York, N. Y. Wire-package. (Reissue.) No. 13,441; July 9; Gaz. vol. 180; p. 567.
Stryker, Charles W., Syracuse, N. Y. Muffler cut-out. No. 1,027,929; May 28; Sp. p. 6241; Gaz. vol. 178; p. 1072.
Stryker, Dick P. (See Stryker, John E. and D. P.)
Stryker, Frank F., administrator. (See Marsh, Calvin D.)
Stryker, John E. (See Freeman, George W., assignor.)
Stryker, John E., New York, N. Y., and D. P. Stryker, Somerville, N. J. Fence-post. No. 1,028,630; June 4; Sp. p. 1223; Gaz. vol. 179; p. 188.
Stuart, Alexander M., Rosenheim, Inverness, Scotland. Razor-stropping device. No. 1,046,505; Dec. 10; Gaz. vol. 185; p. 285.
Stuart, Charles H., Newark, N. Y. Collapsible tube. No. 1,045,629; Nov. 26; Gaz. vol. 184; p. 992.
Stuart, George E., Logan, W. Va. Penholder. No. 1,035,397; Aug. 13; Gaz. vol. 181; p. 368.
Stuart, George E., and H. H. Oakley, Logan, W. Va. Fountain-pen. No. 1,046,894; Dec. 10; Gaz. vol. 185; p. 420.
Stuart, Harve R., Springfield, Ohio, and F. Schaefer, Pittsburgh, Pa. Electric bell. No. 1,048,913; Dec. 31; Gaz. vol. 185; p. 1213.
Stuart, Harve R., Wilkinsburg, Pa., and W. H. Thompson, Springfield, Mass., assignors to Westinghouse Electric and Manufacturing Company. Ozonizer. No. 1,024,533; Apr. 30; Sp. p. 5999; Gaz. vol. 177; p. 1067.
Stuart, Henry J. (See Russ and Stuart.)
Stuart, James A., Glendora, Cal. Hinge. No. 1,034,660; Aug. 6; Gaz. vol. 181; p. 85.
Stuart, Kenneth E., Philadelphia, Pa. Motor suspension. No. 1,040,810; Oct. 8; Gaz. vol. 183; p. 418.
Stuart, Kenneth E., Philadelphia, Pa. Tunnel. No. 1,040,811; Oct. 8; Gaz. vol. 183; p. 418.
Stuart, Moses W., Montgomery, Ala. Motor-cycle. No. 1,035,917; Aug. 20; Gaz. vol. 181; p. 581.
Stuart, Richard, Crows Landing, Cal. Gun-sight. No. 1,017,339; Feb. 13; Sp. p. 2454; Gaz. vol. 175; p. 417.
Stuart, William E., San Francisco, Cal. Compressed-air pump. No. 1,014,422; Jan. 9; Sp. p. 2961; Gaz. vol. 174; p. 491.
Stuart, William E., San Francisco, Cal. Compressed-air pump. No. 1,045,907; Dec. 3; Gaz. vol. 185; p. 39.
Stubbe, Frederick H., assignor of one-half to J. C. Klatzl, New York, N. Y. Gasolene-filter. No. 1,035,653; Aug. 13; Gaz. vol. 181; p. 454.
Stubbers, Joseph, Covington, Ky., assignor to The Incandescent Light & Stove Company, Cincinnati, Ohio. Gas-stove. No. 1,015,597; Jan. 23; Sp. p. 5536; Gaz. vol. 174; p. 948.
Stubbers, Joseph, Covington, Ky., assignor to The Incandescent Light & Stove Company, Cincinnati, Ohio. Hydrocarbon-generator. No. 1,042,987; Oct. 29; Gaz. vol. 183; p. 1253.
Stubbers, Joseph, Covington, Ky., assignor to The Incandescent Light & Stove Company, Cincinnati, Ohio. Hydrocarbon-vapor-generator control. No. 1,042,988; Oct. 29; Gaz. vol. 183; p. 1253.
Stubblefield, Bernard B., Nashville, Tenn. Flying-machine. No. 1,046,895; Dec. 10; Gaz. vol. 185; p. 421.
Stubblefield, John H., Scotts Hill, Tenn. Spacing attachment for cultivators or plows. No. 1,025,546; May 7; Sp. p. 990; Gaz. vol. 178; p. 153.
Stubbs, Joseph H., *et al.* (See Brown and Maloney, assignors.)
Stubbs, William A. (See Brown and Stubbs.)
Stubbs, William R., Rutherford, N. J. Wall-protector. No. 1,043,370; Nov. 5; Gaz. vol. 184; p. 117.
Stubbs, William T., *et al.* (See Brown and Maloney, assignors.)
Stuber, Benjamin F., Gardiner, Me., assignor to United Shoe Machinery Company, Paterson, N. J. Lasting apparatus. No. 1,029,242; June 11; Sp. p. 2544; Gaz. vol. 179; p. 431.
Stuck, David S., Cocolamus, Pa. Vehicle-brake. No. 1,014,978; Jan. 16; Sp. p. 4221; Gaz. vol. 174; p. 710.
Stucker, Howard, Shawnee, Okla. Vacuum cistern-cleaner. No. 1,039,209; Sept. 24; Gaz. vol. 182; p. 773.
Stucki, Arnold, Pittsburgh, Pa. Apparatus for pressing plate-metal articles. No. 1,033,209; July 23; Gaz. vol. 180; p. 933.
Stucki, Arnold, Pittsburgh, Pa. Roller side bearing. No. 1,033,210; July 23; Gaz. vol. 180; p. 934.
Stuewe, Oscar H., Milwaukee, Wis. Wire mattress fabric. No. 1,046,233; Dec. 3; Gaz. vol. 185; p. 151.
Stugner, John. (See Kerchner and Stugner.)
Stugner, John, McKees Rocks, Pa. Nutcracker. No. 1,033,487; July 23; Gaz. vol. 180; p. 1026.
Stuhlfeier, Frederick A., Chicago, Ill. Contact-shoe. No. 1,044,595; Nov. 19; Gaz. vol. 184; p. 602.
Stukart, Hendrik, Rotterdam, Netherlands, assignor to U. S. Slicing Machine Company, Chicago, Ill. Sharpening device for knives of meat-slicing machines. No. 1,039,210; Sept. 24; Gaz. vol. 182; p. 773.
Stull, Emmett W., Milwaukee, Wis., assignor to Allis-Chalmers Company. System of motor control. No. 1,016,794; Feb. 6; Sp. p. 1255; Gaz. vol. 175; p. 193.
Stull, Emmett W., Milwaukee, Wis., assignor to Allis-Chalmers Company. Motor-control system. No. 1,017,270; Feb. 13; Sp. p. 2312; Gaz. vol. 175; p. 393.
Stull, Emmett W., Milwaukee, Wis., assignor to Allis-Chalmers Company. Controller. No. 1,018,019; Feb. 20; Sp. p. 3966; Gaz. vol. 175; p. 687.
Stull, Emmett W., Milwaukee, Wis., assignor to Allis-Chalmers Company. Cover-fastener. No. 1,047,588; Dec. 17; Gaz. vol. 185; p. 694.
Stull, Jacob H., Fremont, Ohio. Universal-jointed automobile steering-rod. No. 1,025,215; May 7; Sp. p. 232; Gaz. vol. 178; p. 39.
Stuller, William L., assignor of one-fourth to G. W. Soules, one-sixth to E. C. Campau, one-sixth to T. R. Bell, and one-sixth to W. H. Soules, Detroit, Mich. Engine-starter. No. 1,032,516; July 16; Gaz. vol. 180; p. 659.
Stumm, William E. (See Hankison and Stumm.)
Stump, Charles W., assignor to The Gilliam Manufacturing Company, Canton, Ohio. Harness-saddle ring. No. 1,032,354; July 9; Gaz. vol. 180; p. 561.
Stump, Ira E., Cleveland, assignor of one-half to H. Pease, Lakewood, Ohio. Signal-horn. No. 1,013,905; Jan. 9; Sp. p. 1823; Gaz. vol. 174; p. 312.
Stump, Ira E., Cleveland, assignor to H. Pease, Lakewood, Ohio. Signal-horn. No. 1,034,530; Aug. 6; Gaz. vol. 181; p. 43.
Stump, Ira E., assignor to H. Pease, Cleveland, Ohio. Signal-horn. No. 1,034,531; Aug. 6; Gaz. vol. 181; p. 43.
Stump, Jonathan W., Ontario, Cal. Field-mower. No. 1,042,167; Oct. 22; Gaz. vol. 183; p. 943.
Stumpf, Anton, Elizabeth, N. J. Scrubbing-machine. No. 1,047,458; Dec. 17; Gaz. vol. 185; p. 647.
Stumpf, E. A. (See Ruegg, Emil, assignor.)
Stumpf, Emil, Waterloo, Ill. Shocking-machine. No. 1,041,898; Oct. 22; Gaz. vol. 183; p. 854.
Stumpf, Johann, Berlin, Germany. Steam-engine. No. 1,028,631; June 4; Sp. p. 1224; Gaz. vol. 179; p. 188.
Stumpf, Johann, Berlin, Germany. Steam-engine. No. 1,028,632; June 4; Sp. p. 1226; Gaz. vol. 179; p. 189.
Stumpf, Johann, Berlin, Germany. Steam-engine. No. 1,042,051; Oct. 22; Gaz. vol. 183; p. 905.
Stumpf, Johann, Berlin, Germany. Steam-engine. No. 1,042,168; Oct. 22; Gaz. vol. 183; p. 943.
Stumpf, Johann, Berlin, Germany. Steam-engine. No. 1,043,479; Nov. 5; Gaz. vol. 184; p. 156.
Stumpf, Johann, Berlin, Germany. Distribution-valve for steam-engines. No. 1,044,828; Nov. 19; Gaz. vol. 184; p. 683.
Stumpf, Johann, Berlin, Germany. Unidirectional-flow steam-engine. No. 1,045,630; Nov. 26; Gaz. vol. 184; p. 992.
Stumpf, John. (See Dronia, Robert, assignor.)
Stunz, William P., Lansdowne, assignor to G. R. Webb, Baltimore, Md. Telephone instrument. No. 1,030,550; June 25; Sp. p. 5482; Gaz. vol. 179; p. 962.
Stunz, William P., Lansdowne, assignor to G. R. Webb, Baltimore, Md. Telephonic instrument, including transmitters. No. 1,030,551; June 25; Sp. p. 5484; Gaz. vol. 179; p. 962.
Stupian, Charles, Buffalo, N. Y. Blacking-box or the like. No. 1,041,694; Oct. 15; Gaz. vol. 183; p. 746.
Sturdevant, Charles R., Worcester, Mass. Splice-bar and rail-bond. No. 1,023,340; Apr. 16; Sp. p. 3405; Gaz. vol. 177; p. 608.
Sturdevant, Frank W., East Norwalk, Conn. Grate. No. 1,036,928; Aug. 27; Gaz. vol. 181; p. 958.
Sturdevant, Riley M., Falls City, Nebr. End-gate. No. 1,020,726; Mar. 19; Sp. p. 3669; Gaz. vol. 176; p. 645.
Sturdyvin, Harry E. (See Robertson, Miller, and Sturdyvin.)
Sturgeon, Benjamin F., assignor of one-half to G. T. Taylor, Youngstown, Ohio. Furnace. No. 1,034,162; July 30; Gaz. vol. 180; p. 1282.

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Sturgeon, Walter R., Sterling, Kans. Shock-absorber. No. 1,029,478; June 11; Sp. p. 3062; Gaz. vol. 179; p. 513.
Sturges, Harry W., Cambridge, assignor to American Tool & Machine Company, Boston, Mass. Means for supporting centrifugal machines. No. 1,044,287; Nov. 12; Gaz. vol. 184; p. 465.
Sturges, Walter H., *et al.* (See Payne, Ernest E. M., assignor.)
Sturgess, George, Newquays, Mablethorpe, England. Flying-machine. No. 1,049,280; Dec. 31; Gaz. vol. 185; p. 1338.
Sturgill, William. (See Pierce, Charles H., assignor.)
Sturgis, Charles M., Birmingham, Ala. Scale. No. 1,046,896; Dec. 10; Gaz. vol. 185; p. 421.
Sturgis, Herbert M., assignor of fifty-five one-hundredths to F. E. Wear, Kansas City, Mo. Mop-holder. No. 1,030,939; July 2; Gaz. vol. 180; p. 31.
Sturgis Steel Go-Cart Co. (See Spofford and Jonas, assignors.)
Sturgis Steel Go-Cart Co. (See Spofford, Jonas, and Bennett, assignors.)
Sturgis Steel Go-Cart Company. (See Cleveland, Grover E., assignor.)
Sturgis Steel Go-Cart Company. (See Spofford and Herrmann, assignors.)
Sturgiss, Wilbur R., Arcadia, Kans. Hoeing-machine. No. 1,040,589; Oct. 8; Gaz. vol. 183; p. 342.
Sturm, Charles A., Portland, Oreg. Elevator. No. 1,028,798; June 4; Sp. p. 1567; Gaz. vol. 179; p. 244.
Sturm, Charles A., Portland, Oreg. Elevator. No. 1,038,020; Sept. 10; Gaz. vol. 182; p. 317.
Sturmey, John J. H., Coventry, England. Variable-speed gearing. No. 1,028,916; June 11; Sp. p. 1844; Gaz. vol. 179; p. 320.
Sturt, Alfred T., Flint, Mich. Connecting-rod bearing. No. 1,027,293; May 21; Sp. p. 4881; Gaz. vol. 178; p. 821.
Sturt, Alfred T., assignor to Buick Motor Co., Flint, Mich. Lever control for motor-vehicles. No. 1,025,216; May 7; Sp. p. 234; Gaz. vol. 178; p. 39.
Sturtevant, Charles A., Plainfield, N. J., assignor to American Bank Note Company. Printing-press. No. 1,026,934; May 21; Sp. p. 4067; Gaz. vol. 178; p. 698.
Sturtevant, Charles A., Plainfield, N. J., assignor to American Bank Note Company. Printing-press. No. 1,026,935; May 21; Sp. p. 4079; Gaz. vol. 178; p. 698.
Sturtevant, Charles A., Plainfield, N. J., assignor to American Bank Note Company. Printing-machine. No. 1,026,936; May 21; Sp. p. 4085; Gaz. vol. 178; p. 699.
Sturtevant, Julius. (See Weinzierl and Sturtevant.)
Sturtevant Mill Company. (See Sturtevant, Thomas J., assignor.)
Sturtevant Mill Company. (See Sturtevant, Thomas L. and T. J., assignors.)
Sturtevant, Thomas J. (See Sturtevant, Thomas L. and T. J.)
Sturtevant, Thomas J., Wellesley, Mass., assignor to Sturtevant Mill Company. Crushing-mill. No. 1,027,222; May 21; Sp. p. 4737; Gaz. vol. 178; p. 796.
Sturtevant, Thomas J., Wellesley, Mass., assignor to Sturtevant Mill Company. Crusher. No. 1,044,596; Nov. 19; Gaz. vol. 184; p. 602.
Sturtevant, Thomas L., Quincy, and T. J. Sturtevant, Wellesley, Mass., assignors to Sturtevant Mill Company. Crusher. No. 1,013,459; Jan. 2; Sp. p. 802; Gaz. vol. 174; p. 129.
Sturtevant, Thomas L., Quincy, and T. J. Sturtevant, Wellesley, Mass., assignors to Sturtevant Mill Company. Crushing-mill. No. 1,027,294; May 21; Sp. p. 4883; Gaz. vol. 178; p. 821.
Sturtevant, Thomas L., Quincy, and T. J. Sturtevant, Wellesley, Mass., assignors to Sturtevant Mill Company. Screening or separating machine. No. 1,035,262; Aug. 13; Gaz. vol. 181; p. 319.
Sturtevant Thomas L., Quincy, and T. J. Sturtevant, Wellesley, Mass., assignors to Sturtevant Mill Company. Roll crushing-machine. No. 1,045,454; Nov. 26; Gaz. vol. 184; p. 929.
Stüting, Heinrich, Witten, Germany. Tube-rolling mill. No. 1,040,812; Oct. 8; Gaz. vol. 183; p. 419.
Stutler, Abraham H., West Union, W. Va. Door-closer. No. 1,014,266; Jan. 9; Sp. p. 2614; Gaz. vol. 174; p. 436.
Stutsman, Reuben O., Des Moines, Iowa. Stirring device. No. 1,044,706; Nov. 19; Gaz. vol. 184; p. 640.
Stutz, Charles C., Norwood, Ohio. Process and apparatus for withdrawing glass from a container. No. 1,037,362; Sept. 3; Gaz. vol. 182; p. 61.
Stutz, Charles C., Norwood, Ohio. Machine for gathering glass. No. 1,037,363; Sept. 3; Gaz. vol. 182; p. 62.
Stutz, Charles C., Norwood, Ohio. Manufacture of glass articles. No. 1,037,364; Sept. 3; Gaz. vol. 182; p. 62.
Stutz, Charles C., Norwood, Ohio. Manufacture of glass articles. No. 1,037,365; Sept. 3; Gaz. vol. 182; p. 62.
Stutz, Charles C., Norwood, Ohio. Apparatus for the manufacture of glass articles. No. 1,037,366; Sept. 3; Gaz. vol. 182; p. 63.
Stutzman, Guy. (See Hartsock and Stutzman.)
Stutzman, Thomas M., Sedalia, Mo. Dust-cap for vehicle-wheels. No. 1,039,331; Sept. 24; Gaz. vol. 182; p. 816.
Stvanek, Carl, Stratford, Conn. Bevel-gear chuck. No. 1,022,761; Apr. 9; Sp. p. 2174; Gaz. vol. 177; p. 373.
Styles, William C., Bowdon, Ga. Pillow-sham holder. No. 1,013,697; Jan. 2; Sp. p. 1351; Gaz. vol. 174; p. 210.
Styll, Harry H., assignor to American Optical Company, Southbridge, Mass. Eyeglasses. No. 1,039,462; Sept. 24; Gaz. vol. 182; p. 862.
Styres, George. (See Strickler, David, assignor.)
Subberg, Anna M., Chicago, Ill. Shoe-rack. No. 1,030,940; July 2; Gaz. vol. 180; p. 31.
Subers, Lawrence A. (See Bayne and Subers.)
Subers, Lawrence A., Cleveland, Ohio. Belting. No. 1,014,918; Jan. 16; Sp. p. 4078; Gaz. vol. 174; p. 689.
Subers, Lawrence A., Cleveland, Ohio. Laminated cohesive interwound fabric band. No. 1,017,271; Feb. 13; Sp. p. 2314; Gaz. vol. 175; p. 394.
Subers, Lawrence A., Cleveland, Ohio. Fabric having layers of variable extensibility. No. 1,021,014; Mar. 26; Sp. p. 4268; Gaz. vol. 176; p. 792.
Subers, Lawrence A., Cleveland, Ohio. Fabric constructed of laminated cohesive interwound members. No. 1,024,040; Apr. 23; Sp. p. 4866; Gaz. vol. 177; p. 863.
Subers, Lawrence A., Cleveland, Ohio. Laminated cohesive interwound fabric. No. 1,024,915; Apr. 30; Sp. p. 6830; Gaz. vol. 177; p. 1201.
Subers, Lawrence A., Cleveland, Ohio. Pneumatic-tire fabric having annular elastic zones. No. 1,026,836; May 21; Sp. p. 3843; Gaz. vol. 178; p. 664.
Subers, Lawrence A., and E. Mosman, Cleveland, Ohio; said Mosman assignor to said Subers. Automatically-acting machine for making a twisted cord or thread and for reeling the same. No. 1,039,211; Sept. 24; Gaz. vol. 182; p. 773.
Subert, Charles, Chicago, Ill. Humidifier. No. 1,035,492; Aug. 13; Gaz. vol. 181; p. 400.
Sublett, Alvin H., assignor of one-half to H. H. Huffman, Roanoke, Va. Watch-holder. No. 1,027,574; May 28; Sp. p. 5461; Gaz. vol. 178; p. 955.
Submarine Signal Company. (See Wood, Edward C., assignor.)
Subra, Gustave E. N. I. E., Fontenay-sous-Bois, France. Auto fore-carriage for vehicles. No. 1,031,825; July 9; Gaz. vol. 180; p. 381.
Sucher, Emile, Versailles, France. Preserving and hardening wood. No. 1,016,111; Jan. 30; Sp. p. 6632; Gaz. vol. 174; p. 1153.
Suchla, Thomas, Courtenay, N. D. Loading and unloading device. No. 1,028,841; June 4; Sp. p. 1662; Gaz. vol. 179; p. 259.
Suchla, Thomas, Courtenay, N. D. Loading and unloading device. (Reissue.) No. 13,490; Nov. 19; Gaz. vol. 184; p. 783.
Sucholtz, Rudolph E., Detroit, Mich. Plow. No. 1,024,534; Apr. 30; Sp. p. 6001; Gaz. vol. 177; p. 1067.
Suchy, Robert. (See Hoffmann and Suchy.)
Suddard, Thomas W., assignor to The Hamilton Manufacturing Company, Two Rivers, Wis. Letter-board. No. 1,034,163; July 30; Gaz. vol. 180; p. 1282.
Suddarth, Archibald C., Monterey, Va. Wrench. No. 1,018,528; Feb. 27; Sp. p. 5133; Gaz. vol. 175; p. 894.
Süddeutsche Drahtindustrie Aktiengesellschaft. (See Loewenthal, Hugo, assignor.)
Suddoth, Frank, Mount Vernon, Ind. Ruler. No. 1,018,790; Feb. 27; Sp. p. 5689; Gaz. vol. 175; p. 983.
Sudekum, William, assignor of one-half to A. Schardt, Nashville, Tenn. Mold. No. 1,046,121; Dec. 3; Gaz. vol. 185; p. 111.
Suess, Christopher H. (See Boschee, Adam A., assignor.)
Suess, Walter E., assignor of one-half to G. Hamann, Taylor, Tex. Stop-cock. No. 1,015,358; Jan. 23; Sp. p. 5009; Gaz. vol. 174; p. 865.
Sugden, Henry, and C. F. Pidgin, Boston, Mass., assignors to The National Cash Register Company, Dayton, Ohio. Calculating mechanism for type-writers. No. 1,044,597; Nov. 19; Gaz. vol. 184; p. 602.
Sugrue, Patrick H., Washington, D. C. Furnace-roof. No. 1,032,960; July 16; Gaz. vol. 180; p. 808.
Suhl, Herbert P., Fortuna, Mo. Traction-engine for cultivators. No. 1,041,191; Oct. 15; Gaz. vol. 183; p. 579.
Suhm, Arthur J., Milwaukee, Wis., and E. A. Suhm, Kankakee, Ill. Wheeled rake. No. 1,020,228; Mar. 12; Sp. p. 2615; Gaz. vol. 176; p. 443.
Suhm, Edgar A. (See Suhm, Arthur J. and E. A.)
Suhr, Emil, West Hoboken, N. J., assignor of one-third to E. Haverkamp and one-third to C. Ehrenberg, Kings county, N. Y. Spectacle-case. No. 1,024,752; Apr. 30; Sp. p. 6495; Gaz. vol. 177; p. 1143.
Suhre, Henry N., Sparrows Point, Md. Roach-trap. No. 1,018,277; Feb. 20; Sp. p. 4519; Gaz. vol. 175; p. 777.
Sühsmann, Erich, Berlin, Germany. Window-lock. No. 1,021,642; Mar. 26; Sp. p. 5596; Gaz. vol. 176; p. 1006.
Sulecio, Salvador A., Guatemala, Guatemala. Bridle-bit. No. 1,046,897; Dec. 10; Gaz. vol. 185; p. 421.
Sulliger, Jean, Geneva, Switzerland. Mowing-machine. No. 1,016,586; Feb. 6; Sp. p. 819; Gaz. vol. 175; p. 122.
Sullivan, Clark E., Fort Smith, Ark. Horse-hitching device. No. 1,048,370; Dec. 24; Gaz. vol. 185; p. 988.

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Sullivan, Daniel F., *et al.* (See Griggs and Henderson, assignors.)
Sullivan, Edward A., assignor to Electric Railway Supplies, Limited, Toronto, Ontario, Canada. Trolley. No. 1,043,879; Nov. 12; Gaz. vol. 184; p. 324.
Sullivan, Frank T., Brooklyn, N. Y. Stem for smoking-pipes, cigar and like holders. No. 1,045,631; Nov. 26; Gaz. vol. 184; p. 993.
Sullivan, James C., Humble, Tex. Drill. No. 1,044,598; Nov. 19; Gaz. vol. 184; p. 603.
Sullivan, Jeremiah J., New Decatur, Ala., assignor of one-half to himself, and one-half to J. J. McCarthy, Chicago, Ill. Packing-ring. No. 1,022,341; Apr. 2; Sp. p. 1231; Gaz. vol. 177; p. 197.
Sullivan, John G., *et al.* (See Motley, Phillips B., assignor.)
Sullivan, John L. (See Mueller, William A., assignor.)
Sullivan, John T., St. Louis, Mo. Vehicle-wrench. No. 1,033,211; July 23; Gaz. vol. 180; p. 934.
Sullivan, Joseph T. (See Nicoll, Benjamin F., assignor.)
Sullivan Machinery Company. (See Ball, Albert, assignor.)
Sullivan Machinery Company. (See Gilman, George H., assignor.)
Sullivan Machinery Company. (See Holdsworth, Fred D., assignor.)
Sullivan Machinery Company. (See Nelson, Sven T., assignor.)
Sullivan, Richard H., La Conner, Wash. Saw-tool. No. 1,023,341; Apr. 16; Sp. p. 3406; Gaz. vol. 177; p. 608.
Sullivan, Willard A., Brooklyn, N. Y. Printing-press. No. 1,025,429; May 7; Sp. p. 703; Gaz. vol. 178; p. 112.
Sullivan, William L. (See Meier and Sullivan.)
Sullivan, William L., Ferguson, assignor to The Temco Manufacturing Company, St. Louis, Mo. Ticket-machine. No. 1,039,212; Sept. 24; Gaz. vol. 182; p. 774.
Sullivan, William M., Middletown, Ohio. Latrine. No. 1,026,413; May 14; Sp. p. 2928; Gaz. vol. 178; p. 485.
Sulser, Adam H., Washington, D. C. Door closing and checking device. No. 1,019,857; Mar. 12; Sp. p. 1815; Gaz. vol. 176; p. 318.
Sulsona, Joseph D., New York, N. Y., assignor to Taximeter Control Company. Taximeter control. No. 1,023,050; Apr. 9; Sp. p. 2755; Gaz. vol. 177; p. 470.
Sult, William F. (See Smith and Sult.)
Sultemeyer, Charles F., New York, N. Y. Making anti-friction-bearings. No. 1,048,758; Dec. 31; Gaz. vol. 185; p. 1160.
Sulzbach, Henry L., Sioux City, Iowa. Match-safe. No. 1,041,695; Oct. 15; Gaz. vol. 183; p. 746.
Sulzberger, Nathan, New York, N. Y. Chloral derivatives containing the radical of a fatty acid. No. 1,025,889; May 7; Sp. p. 1751; Gaz. vol. 178; p. 269.
Sulzberger, Nathan, New York, N. Y. Esters of metacresol and derivatives of same with lower fatty acids. No. 1,031,971; July 9; Gaz. vol. 180; p. 431.
Sulzberger, Nathan, New York, N. Y. Derivatives of metacresol with organic acids. No. 1,033,841; July 30; Gaz. vol. 180; p. 1169.
Sulzberger, Nathan, New York, N. Y. Chewing-gum containing pharmaceutical preparations. No. 1,038,227; Sept. 10; Gaz. vol. 182; p. 384.
Suman, Ruppert W., Newark, N. J., assignor to General Electric Company. Shaping filaments. No. 1,013,572; Jan. 2; Sp. p. 1039; Gaz. vol. 174; p. 167.
Sumerlin, Jasper. (See Wilson, Charles B., assignor.)
Summa, Victor M., assignor to American Car and Foundry Company, St. Louis, Mo. Underframe. No. 1,021,115; Mar. 26; Sp. p. 4463; Gaz. vol. 176; p. 826.
Summa, Victor M., assignor to American Car and Foundry Company, St. Louis, Mo. Car-underframe. No. 1,021,168; Mar. 26; Sp. p. 4591; Gaz. vol. 176; p. 843.
Summa, Victor M., assignor to American Car and Foundry Company, St. Louis, Mo. Car-underframe. No. 1,021,169; Mar. 26; Sp. p. 4594; Gaz. vol. 176; p. 844.
Summa, Victor M., assignor to American Car and Foundry Company, St. Louis, Mo. Steel box-car. No. 1,021,170; Mar. 26; Sp. p. 4597; Gaz. vol. 176; p. 844.
Summa, Victor M., assignor to American Car and Foundry Company, St. Louis, Mo. Steel underframe for box-cars. No. 1,021,852; Apr. 2; Sp. p. 213; Gaz. vol. 177; p. 36.
Summa, Victor M., assignor to American Car and Foundry Company, St. Louis, Mo. Car-underframe. No. 1,022,710; Apr. 9; Sp. p. 2063; Gaz. vol. 177; p. 355.
Summa, Victor M., assignor, by mesne assignments, to American Car and Foundry Company, St. Louis, Mo. Car structure. No. 1,029,091; June 11; Sp. p. 2226; Gaz. vol. 179; p. 380.
Summerfield, Solon E. (See Heyde, Max A., assignor.)
Summerrow, Willie P., Austin, Tex. Cotton-condenser and lint-flue. No. 1,023,772; Apr. 16; Sp. p. 4224; Gaz. vol. 177; p. 742.
Summers, Amos W., and J. V. Thompson, Spencer, W. Va. Combined door lock and bell. No. 1,022,275; Apr. 2; Sp. p. 1094; Gaz. vol. 177; p. 175.
Summers, Archibald, Paterson, N. J. Flushing apparatus. No. 1,039,332; Sept. 24; Gaz. vol. 182; p. 817.
Summers, Arthur E., Mount Vernon, Ill. Sanitary drinking-fountain. No. 1,038,021; Sept. 10; Gaz. vol. 182; p. 317.
Summers, Caleb E., and C. B. Larmon, Kansas City, Mo. Acetylene-gas generator. No. 1,044,599; Nov. 19; Gaz. vol. 184; p. 603.
Summers, Edgar W., Pittsburgh, Pa. Door arrangement for dumping-cars. No. 1,038,228; Sept. 10; Gaz. vol. 182; p. 384.
Summers, Leland L., Chicago, Ill. Preparing nitrogenous compounds. No. 1,013,460; Jan. 2; Sp. p. 804; Gaz. vol. 174; p. 129.
Summers, Leland L., Chicago, Ill. Making illuminating-gas. No. 1,023,446; Apr. 16; Sp. p. 3614; Gaz. vol. 177; p. 641.
Summers, Leland L., Chicago, Ill. Preparing nitrogenous compounds. No. 1,033,842; July 30; Gaz. vol. 180; p. 1169.
Summerscales, Samuel H., Winnipeg, Manitoba, Canada. Metallic wheel. No. 1,042,290; Oct. 22; Gaz. vol. 183; p. 983.
Summerville, William D., Brookville, Pa. Type-writer key. No. 1,041,696; Oct. 15; Gaz. vol. 183; p. 746.
Sumner, Charles W., St. Petersburg, Fla. Combined curtain rod and shade fixture. No. 1,044,940; Nov. 19; Gaz. vol. 184; p. 720.
Sumner Manufacturing Company. (See Bigelow, Samuel A., assignor.)
Sumner, William, Liverpool, England. Current-regulating device or resistance applicable for electric lighting or heating. No. 1,037,683; Sept. 3; Gaz. vol. 182; p. 171.
Sumrall, Perry N. (See Norton and Sumrall.)
Sumter Telephone Manufacturing Co., The. (See Mason, Charles T., assignor.)
Sumwalt, Thomas J. (See McProud, David W., assignor.)
Sunday, Lee A., Richmond, Va. Mortising-machine. No. 1,029,773; June 18; Sp. p. 3697; Gaz. vol. 179; p. 651.
Sundberg, Axel G., assignor to Helsingborgs Kopparverks Aktiebolag, Helsingborg, Sweden. Purifying metals. No. 1,043,371; Nov. 5; Gaz. vol. 184; p. 117.
Sunde, Ole, and O. Ryan, Seattle, Wash. Box-cover fastener. No. 1,029,092; June 11; Sp. p. 2229; Gaz. vol. 179; p. 381.
Sundee, John R., assignor, by mesne assignments, to Warner Jewelry Case Company, Buffalo, N. Y. Jewelry-box fastener. No. 1,025,430; May 7; Sp. p. 705; Gaz. vol. 178; p. 112.
Sundelin, Gustaf T., Robertsfors, Sweden. Measuring apparatus for liquids. No. 1,016,377; Feb. 6; Sp. p. 306; Gaz. vol. 175; p. 48.
Sundelius, Severus. (See Davidson and Sundelius.)
Sunden, Olof G. (See Erickson and Sunden.)
Sundh, August, Hastings-upon-Hudson, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Gearing. No. 1,017,819; Feb. 20; Sp. p. 3509; Gaz. vol. 175; p. 616.
Sundh, August, Hastings-on-Hudson, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Magnetically-controlled friction-gearing. No. 1,025,547; May 7; Sp. p. 991; Gaz. vol. 178; p. 153.
Sundh, August, Hastings-upon-Hudson, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Traction-elevator. No. 1,047,330; Dec. 17; Gaz. vol. 185; p. 605.
Sundh, August, Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Sidewalk endless ash-conveyer. No. 1,025,168; May 7; Sp. p. 128; Gaz. vol. 178; p. 22.
Sundh, August, Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Alternating-current brake-magnet apparatus. No. 1,031,743; July 9; Gaz. vol. 180; p. 353.
Sundh, August, Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Power-transmission system. No. 1,036,743; Aug. 27; Gaz. vol. 181; p. 897.
Sundh, August, Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Power transmission. No. 1,043,480; Nov. 5; Gaz. vol. 184; p. 156.
Sundh, August, Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Compound brake for traction-elevators. No. 1,043,740; Nov. 5; Gaz. vol. 184; p. 244.
Sundh, August, Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Hydraulic variable-speed gear. No. 1,047,328; Dec. 17; Gaz. vol. 185; p. 604.
Sundh, August, Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Electromagnetically-controlled power-transmission mechanism. No. 1,047,329; Dec. 17; Gaz. vol. 185; p. 604.
Sundh Electric Company. (See Smith, Frank W., assignor.)
Sundhoff, Hugo, Brooklyn, N. Y., assignor, by mesne assignments, to United Shoe Machinery Company, Paterson, N. J. Machine for use in the manufacture of boots and shoes. No. 1,048,602; Dec. 31; Gaz. vol. 185; p. 1105.
Sundman, Lars F. (See Tesreau, Sundman, and Hill.)
Sunshine, Monroe, New York, N. Y. Sad-iron. No. 1,023,689; Apr. 16; Sp. p. 4085; Gaz. vol. 177; p. 717.
Sundstrom, Herman T., Houston, Tex. Pneumatic cooling device. No. 1,038,022; Sept. 10; Gaz. vol. 182; p. 318.
Superior Hay Stacker Mfg. Co., The. (See Vroom, Oler P., assignor.)

Alphabetical list of patentees—Continued.

Superior Register Company. (See McPherson, Donald H., assignor.)
Superior Register Company. (See Staples, Albert F., assignor.)
Superior Tree Protector Manufacturing Co. (See Bouska, Joseph, assignor.)
Suppes, George F., Greensboro, N. C. Locking-brake. No. 1,045,632; Nov. 26; Gaz. vol. 184; p. 993.
Suppes, Max M., Elyria, Ohio. Bumping-block for railway-tracks. No. 1,027,779; May 28; Sp. p. 5867; Gaz. vol. 178; p. 1020.
Supplee, Walter B., Cynwyd, Pa. Golf-ball-marking machine. No. 1,045,340; Nov. 26; Gaz. vol. 184; p. 888.
Surber, Steven P., San Antonio, Tex. Gage or indicator for liquid-tanks. No. 1,024,377; Apr. 23; Sp. p. 5570; Gaz. vol. 177; p. 977.
Surcouf, Edouard, assignor to Société Anonyme "Astra," Billancourt, France. Propulsion of airships. No. 1,019,283; Mar. 5; Sp. p. 620; Gaz. vol. 176; p. 97.
Sure Seal Company. (See Hull, Joseph V., assignor.)
Suren, Nathan H., Needham, Mass., assignor to The Gamewell Fire-Alarm Telegraph Company, New York, N. Y. Electromagnet. No. 1,029,150; June 11; Sp. p. 2347; Gaz. vol. 179; p. 400.
Suren, Nathan H., Needham, Mass., assignor to The Gamewell Fire-Alarm Telegraph Company, New York, N. Y. Signal-box. No. 1,029,956; June 18; Sp. p. 4128; Gaz. vol. 179; p. 715.
Surgeoner, Hugh, Westfield, Mass. Fan. No. 1,042,169; Oct. 22; Gaz. vol. 183; p. 944.
Surprise, Edwin M., assignor to American Telephone and Telegraph Company, Boston, Mass. Ventilating system. No. 1,033,963; July 30; Gaz. vol. 180; p. 1212.
Susemihl, Theodor, and C. P. Carrington, New York, N. Y. Umbrella. No. 1,024,292; Apr. 23; Sp. p. 5428; Gaz. vol. 177; p. 951.
Susemihl, Theodor, and C. P. Carrington, New York, N. Y. Umbrella. (Reissue.) No. 13,430; June 18; Sp. p. 4797; Gaz. vol. 179; p. 824.
Suspension Ball Bearing Manufacturing Company. (See Neighbour, William W., assignor.)
Suss, Herman M., Fall River, Mass. Core-filling compound for pneumatic tires and making the same. No. 1,041,526; Oct. 15; Gaz. vol. 183; p. 691.
Sussman, Leon, Bayonne, N. J., assignor to F. Wolf, New York, N. Y. Corner-post fastening. No. 1,030,494; June 25; Sp. p. 5318; Gaz. vol. 179; p. 947.
Sussmann, Heinrich, assignor to The Deutsche Gasglühlicht Aktiengesellschaft (Auergesellschaft), Berlin, Germany. Automatic valve-controlled gas lighter and extinguisher. No. 1,014,267; Jan. 9; Sp. p. 2615; Gaz. vol. 174; p. 436.
Süssmann, Heinrich, assignor to Deutsche Gasglühlicht Aktiengesellschaft (Auergesellschaft), Berlin, Germany. Incandescent gas-burner. No. 1,024,462; Apr. 23; Sp. p. 5790; Gaz. vol. 177; p. 1006.
Süssmann, Heinrich, assignor to Deutsche Gasglühlicht Aktiengesellschaft (Auergesellschaft), Berlin, Germany. Burner for upright incandescent gas-lamps. No. 1,025,656; May 7; Sp. p. 1231; Gaz. vol. 178; p. 189.
Sutcliffe, Arthur S. (See Moore and Sutcliffe.)
Sutcliffe, Edgar R., Leigh, England. Tunnel-kiln. No. 1,042,725; Oct. 29; Gaz. vol. 183; p. 1164.
Sutcliffe, Samuel, Mytholmroyd, England. Snow-plow. No. 1,020,727; Mar. 19; Sp. p. 3670; Gaz. vol. 176; p. 646.
Sutcliffe, William, and G. B. Stillman, Deerfield, Ohio. Delivery-machine. No. 1,042,620; Oct. 29; Gaz. vol. 183; p. 1127.
Sutherland, Austin A., Des Moines, Iowa. Closet-flushing device. No. 1,048,228; Dec. 24; Gaz. vol. 185; p. 939.
Sutherland, Fred E., and J. A. Brown, Los Angeles, Cal. Shifter mechanism. No. 1,028,503; June 4; Sp. p. 972; Gaz. vol. 179; p. 146.
Sutherland, John W., Sydney, Nova Scotia, Canada. Collapsible barrel. No. 1,037,684; Sept. 3; Gaz. vol. 182; p. 171.
Sutherland, Luke, Louisville, Ky. Brake system. No. 1,028,301; June 4; Sp. p. 516; Gaz. vol. 179; p. 76.
Sutherland, Robert L., Boulder, Colo. Belt-stretcher No. 1,036,369; Aug. 20; Gaz. vol. 181; p. 739.
Sutherland, Victor. (See Reisenhus and Sutherland.)
Sutliff, Gerald S., Perry Creek township, Vigo county, Ind. Engine-starter. No. 1,021,493; Mar. 26; Sp. p. 5308; Gaz. vol. 176; p. 957.
Sutlive, Birdwell E., Keokuk, Iowa. Umbrella. No. 1,016,301; Feb. 6; Sp. p. 141; Gaz. vol. 175; p. 22.
Sutterly, George H., *et al.* (See Shepherd, William M., assignor.)
Sutterly, Gilbert T., *et al.* (See Shepherd, William M., assignor.)
Suttle, Willis A. (See Barnes and Suttle.)
Sutton, Harvey F., Salt Lake City, Utah. Apparatus for tunneling rock. No. 1,025,029; Apr. 30; Sp. p. 7052; Gaz. vol. 177; p. 1239.
Sutton, Henry M., W. L. and E. G. Steele, Dallas, Tex. Electrostatic separator. No. 1,017,701; Feb. 20; Sp. p. 3193; Gaz. vol. 175; p. 575.
Sutton, Henry M., W. L. and E. G. Steele, Dallas, Tex. Electrostatic separation. No. 1,020,063; Mar. 12; Sp. p. 2243; Gaz. vol. 176; p. 387.
Sutton, Joseph W., assignor to M. Sutton, Brisbane, Queensland, Australia. Pneumatic cushion-spring for wheeled vehicles. No. 1,048,371; Dec. 24; Gaz. vol. 185; p. 988
Sutton, Louis O., Wilmington, Del. Game apparatus. No. 1,031,395; July 2; Gaz. vol. 180; p. 191.
Sutton, Mary. (See Sutton, Joseph W., assignor.)
Sutton, Nelson J., Cincinnati, Ohio. Harness-saddle. No. 1,027,014; May 21; Sp. p. 4259; Gaz. vol. 178; p. 726.
Sutton, Robert B., *et al.* (See White, Frank L., assignor.)
Sutton, Thomas, Sonora, Cal. Ore-feeder. No. 1,047,589; Dec. 17; Gaz. vol. 185; p. 694.
Sutton, Thomas E., Climax, Ga. Line-marker for railways. No. 1,019,199; Mar. 5; Sp. p. 428; Gaz. vol. 176; p. 68.
Sutton, William S., Madison, Wis., assignor, by mesne assignments, to General Electric Company. Positive oiling device for bearings. No. 1,015,095; Jan. 16; Sp. p. 4452; Gaz. vol. 174; p. 749.
Sutton, William S., assignor to Houston Manufacturing Company, Rockford, Ill. Closure for air-suction pipes. No. 1,044,707; Nov. 19; Gaz. vol. 184; p. 640.
Suykerbuyk, Peter, New York, N. Y. Filter. No. 1,031,886; July 9; Gaz. vol. 180; p. 403.
Suzuki, George K., Oakland, Cal. Tailor's adjustable chart. No. 1,046,674; Dec. 10; Gaz. vol. 185; p. 345.
Suzuki, Saburosuke. (See Ikeda and Suzuki.)
Suzuki, Tozaburo, Tokyo, Japan. Drying apparatus. No. 1,039,841; Oct. 1; Gaz. vol. 183; p. 58.
Suzuki, Tozaburo, Tokyo, Japan. Drying apparatus. No. 1,043,982; Nov. 12; Gaz. vol. 184; p. 361.
Suzzi, Taddeo C., Chicago, Ill. Feed mechanism for nut-cracking machines. No. 1,038,229; Sept. 10; Gaz. vol. 182; p. 384.
Svebilius, Henry M. (See Godfrey, Ekron, and Svebilius.)
Svebilius, Henry M., Chicago, Ill. Propeller. No. 1,017,820; Feb. 20; Sp. p. 3512; Gaz. vol. 175; p. 617.
Svenneby, August, Albany, Oreg. Level. No. 1,036,370; Aug. 20; Gaz. vol. 181; p. 739.
Svensen, Olaf T., Davenport, Iowa. Metallic wheel-rim. No. 1,031,972; July 9; Gaz. vol. 180; p. 431.
Svensson, Carl L., and H. A. Perry, Topeka, Kans. Sanitary egg-separator. No. 1,030,346; June 25; Sp. p. 4987; Gaz. vol. 179; p. 889.
Svistounoff, Boris, St. Petersburg, Russia. Sighting device for machine-guns and the like. No. 1,028,917; June 11; Sp. p. 1847; Gaz. vol. 179; p. 320.
Swaim, Charles S., Taft, Cal. Shoe-sole. No. 1,044,941; Nov. 19; Gaz. vol. 184; p. 721.
Swaim, Charles S., Taft, Cal. Non-refillable bottle. No. 1,048,759; Dec. 31; Gaz. vol. 185; p. 1160.
Swaim, Charles S., assignor of one-half to P. S. Pierce, Lodi, Cal. Bicycle-support. No. 1,020,327; Mar. 12; Sp. p. 2791; Gaz. vol. 176; p. 473.
Swain, Edward L., New York, N. Y. Clock winding mechanism. No. 1,017,187; Feb. 13; Sp. p. 2131; Gaz. vol. 175; p. 365.
Swain, George F., Chicago, Ill. Exhaust-muffler. No. 1,020,163; Mar. 12; Sp. p. 2465; Gaz. vol. 176; p. 420.
Swain, James W., and H. M. Smith, Clarington, Ohio. Electric clock. No. 1,037,079; Aug. 27; Gaz. vol. 181; p. 1010.
Swain, John T., Prentice, Ill. Target-trap. No. 1,017,272; Feb. 13; Sp. p. 2316; Gaz. vol. 175; p. 394.
Swaine, Alvin R., Des Moines, Iowa. Hydrocarbon-burner. No. 1,028,976; June 11; Sp. p. 1969; Gaz. vol. 179; p. 340.
Swaine, Alvin R., Des Moines, Iowa. Hydrocarbon-lamp. No. 1,028,977; June 11; Sp. p. 1972; Gaz. vol. 179; p. 341.
Swainson-Brooke, Arthur, Doncaster, England. Drill-jig. No. 1,045,633; Nov. 26; Gaz. vol. 184; p. 993.
Swales, John W., Fruitvale, Cal. Railway-rail chair. No. 1,028,504; June 4; Sp. p. 973; Gaz. vol. 179; p. 146.
Swaller, Henry D. (See Weber and Swaller.)
Swalm, William E., Los Angeles, Cal., assignor to Burroughs Adding Machine Company, Detroit, Mich. Adding-machine. No. 1,028,149; June 4; Sp. p. 153; Gaz. vol. 179; p. 23.
Swan, Alfred H. S., assignor to Rochester Stamping Company, Rochester, N. Y. Coffee-pot. No. 1,031,486; July 2; Gaz. vol. 180; p. 222.
Swan, Earl N., and A. Beightol, Scotia, Cal. Automatic fire-lighter. No. 1,048,372; Dec. 24; Gaz. vol. 185; p. 988.
Swan, Joseph W. (See Kendall, James A., assignor.)
Swan, William W., Tacoma, Wash. Measuring device for seeding-machines. No. 1,044,103; Nov. 12; Gaz. vol. 184; p. 402.
Swanberg, Floyd L., assignor to The D. T. Williams Valve Company, Cincinnati, Ohio. Oil-pump. No. 1,019,927; Mar. 12; Sp. p. 1979; Gaz. vol. 176; p. 342.
Swanbum, Sanford. (See Kilmer and Swanbum.)
Swanfelt, Victor, Elwood, Ind. Swing. No. 1,020,229; Mar. 12; Sp. p. 2618; Gaz. vol. 176; p. 443.
Swank, Calvin P., Camden, N. J. Type-writer attachment. No. 1,027,395; May 21; Sp. p. 5093; Gaz. vol. 178; p. 856.
Swank, Reuben B., Dayton, Ohio. Flying-machine. No. 1,020,628; Mar. 19; Sp. p. 3452; Gaz. vol. 176; p. 610.

Alphabetical list of patentees—Continued.

Swann, Nathan P., Fletcher, Okla. Cow-poke. No. 1,042,499; Oct. 29; Gaz. vol. 183; p. 1084.
Swanson, Andrew C., Seattle, Wash. Safety-stirrup. No. 1,048,229; Dec. 24; Gaz. vol. 185; p. 939.
Swanson, Arvid E., Spokane, Wash., assignor of one-half to T. Olson, Dover, Idaho. Animal-trap. No. 1,028,633; June 4; Sp. p. 1229; Gaz. vol. 179; p. 189.
Swanson, Charles H., Aurora, Ill. Hydrocarbon-vapor burner. No. 1,018,944; Feb. 27; Sp. p. 6002; Gaz. vol. 175; p. 1035.
Swanson, Elizabeth M., Melbourne, Victoria, Australia. Brushing and polishing device. No. 1,039,333; Sept. 24; Gaz. vol. 182; p. 817.
Swanson, George A., Oakland, Cal. Folding table and seat. No. 1,018,593; Feb. 27; Sp. p. 5283; Gaz. vol. 175; p. 917.
Swanson, Hjalmar A., Chicago, Ill. Lubricator. No. 1,036,929; Aug. 27; Gaz. vol. 181; p. 958.
Swanson, Jacob, Davenport, Iowa. Power-transmission mechanism. No. 1,035,654; Aug. 13; Gaz. vol. 181; p. 455.
Swanson, John H., assignor of one-half to T. F. Robinson and one-half to Robinson Loomis Motor Truck Co., Minneapolis, Minn. Telephone-line selective-switch device. No. 1,035,493; Aug. 13; Gaz. vol. 181; p. 400.
Swanson, Ole, *et al.* (See Montgomery, Arthur W., assignor.)
Swanson, Otto, Chicago, Ill. Reversible railway-frog and connection. No. 1,015,218; Jan. 16; Sp. p. 4676; Gaz. vol. 174; p. 789.
Swanson, Starley S., Bellevue, Ohio. Spreader-arch for cultivators. No. 1,033,765; July 23; Gaz. vol. 180; p. 1115.
Swanstrom, Martin S., Chicago, Ill. Pneumatic pump. No. 1,039,842; Oct. 1; Gaz. vol. 183; p. 58.
Swanton, Thomas J., *et al.* (See La May, Arthur C., assignor.)
Swaren, William A., Chicago, assignor, by mesne assignments, to International Voting Machine Company, Elgin, Ill. Voting-machine. No. 1,038,680; Sept. 17; Gaz. vol. 182; p. 576.
Swarm, Emery E., Hampton, Ill. Wire-stretcher. No. 1,023,400; Apr. 16; Sp. p. 3525; Gaz. vol. 177; p. 627.
Swart, Robert B., assignor to American Metal Screen and Weatherstrip Company, Detroit, Mich. Weather-strip. No. 1,017,340; Feb. 13; Sp. p. 2455; Gaz. vol. 175; p. 417.
Swarthout, Jacob C. (See Banish and Swarthout.)
Swarthout, James E., Elmira, N. Y. Fountain-pen. No. 1,034,661; Aug. 6; Gaz. vol. 181; p. 85.
Swartley, Wilmer C. (See Cline, Albert R., assignor.)
Swarts, Al J., Kent, Wash. Spring-wheel. No. 1,020,328; Mar. 12; Sp. p. 2793; Gaz. vol. 176; p. 473.
Swartwout, Willis B., Milwaukee, Wis. Temple for spectacles. No. 1,017,702; Feb. 20; Sp. p. 3201; Gaz. vol. 175; p. 575.
Swartz, Joseph A., Fort Wayne, Ind. Locomotive ash-pan. No. 1,038,987; Sept. 17; Gaz. vol. 182; p. 682.
Swartz, Max, New York, assignor to National Fire Proof Sash and Door Company, Brooklyn, N. Y. Sheet-metal window sash and frame. No. 1,017,341; Feb. 13; Sp. p. 2456; Gaz. vol. 175; p. 418.
Swartzbaugh, Charles E., Toledo, Ohio. Noodle-cutter. No. 1,024,535; Apr. 30; Sp. p. 6003; Gaz. vol. 177; p. 1068.
Swartzfeger, Samuel C. (See Olson and Swartzfeger.)
Swartzlander, James W., Coalinga, Cal. Mandrel. No. 1,016,587; Feb. 6; Sp. p. 820; Gaz. vol. 175; p. 122.
Swash Motor Washer Company, The. (See Yassenoff, Isidor, assignor.)
Swautusch, Frank W., Butler, Ind. Stroking attachment for concrete-mixing machines. No. 1,022,607; Apr. 9; Sp. p. 1812; Gaz. vol. 177; p. 317.
Swayze, August A. (See Marx, Leon L., assignor.)
Swearingen, Zachariah, Osceola, Iowa. Exhaust-silencer. No. 1,030,347; June 25; Sp. p. 4989; Gaz. vol. 179; p. 889.
Swedenborg, George W., Ashtabula, Ohio. Boat-handling device. No. 1,046,675; Dec. 10; Gaz. vol. 185; p. 345.
Swedlund, Erick J., Williston, N. D. Transmission-gearing. No. 1,045,213; Nov. 26; Gaz. vol. 184; p. 844.
Sweeney, Anna C., and W. R. Parks, Ottumwa, Iowa. Confection-refrigerator. No. 1,033,488; July 23; Gaz. vol. 180; p. 1026.
Sweeney, Dennis E., Indianapolis, Ind. Davenport. No. 1,014,535; Jan. 9; Sp. p. 3162; Gaz. vol. 174; p. 526.
Sweeney, Eugene J., Rockford, Ill. Clevis. No. 1,016,183; Jan. 30; Sp. p. 6756; Gaz. vol. 174; p. 1175.
Sweeney, James H. (See Rollings and Sweeney.)
Sweeney, Margaret S. M. (See Sweeney, William L., assignor.)
Sweeney, William L., assignor to M. S. M. Sweeney, Spartanburg, S. C. Tire. No. 1,033,635; July 23; Gaz. vol. 180; p. 1075.
Sweeny, Jared S., and W. W. Grindle, Decatur, Ill. Feed-water heater. No. 1,014,919; Jan. 16; Sp. p. 4079; Gaz. vol. 174; p. 689.
Sweet, Charles E., Wilkinsburg, assignor, by mesne assignments, to The Colonial Trust Company, trustee, Pittsburgh, Pa. Blade-lashing means. No. 1,023,892; Apr. 23; Sp. p. 4539; Gaz. vol. 177; p. 812.
Sweet, Charles E., Wilkinsburg, assignor, by mesne assignments, to The Colonial Trust Company, trustee, Pittsburgh, Pa. Blade-tie. No. 1,026,719; May 21; Sp. p. 3580; Gaz. vol. 178; p. 624.
Sweet, Charles R., Worcester, and W. V. Ballard, Millbury, Mass. Heddle-binder. No. 1,042,052; Oct. 22; Gaz. vol. 183; p. 905.
Sweet, Eli, Binghamton, N. Y., assignor to J. W. Boyd, Denver, Colo. Metal-hardening compound. No. 1,032,438; July 16; Gaz. vol. 180; p. 633.
Sweet, George, Oakland, Cal. Gas-furnace. No. 1,047,331; Dec. 17; Gaz. vol. 185; p. 605.
Sweet, Welcome F., St. Louis, Mo. Drill magazine and chuck. No. 1,022,711; Apr. 9; Sp. p. 2064; Gaz. vol. 177; p. 355.
Sweet, Welcome F., St. Louis, Mo. Street-car advertising device. No. 1,027,780; May 28; Sp. p. 5868; Gaz. vol. 178; p. 1021.
Sweet, Welcome F., St. Louis, Mo. Bloat-needle. No. 1,045,906; Dec. 3; Gaz. vol. 185; p. 38.
Sweetland, Ernest J., Montclair, N. J. Pressure-filter. No. 1,032,091; July 9; Gaz. vol. 180; p. 470.
Sweetser, George. (See Rawlings and Sweetser.)
Sweetser, Ralph H., Columbus, Ohio. Apparatus for supplying air to blast-furnaces, converters, and the like. No. 1,027,781; May 28; Sp. p. 5871; Gaz. vol. 178; p. 1021.
Sweger, David P., Chambersburg, Pa. Draft-equalizer. No. 1,020,934; Mar. 19; Sp. p. 4086; Gaz. vol. 176; p. 714.
Sweinhagen, Herman D., Napoleon, Ohio. Spring-bed. No. 1,045,086; Nov. 19; Gaz. vol. 184; p. 772.
Swem, Daniel D. (See Berliner, Swem, and Moore.)
Swengel, Willard E., St. Johns, Oreg. Portable ladder for gathering fruit. No. 1,015,652; Jan. 23; Sp. p. 5655; Gaz. vol. 174; p. 966.
Sweningson, Louis, and W. H. Woodward, Salem, Ohio. Valve. No. 1,041,697; Oct. 15; Gaz. vol. 183; p. 746.
Swensen, Andrew, Chicago, Ill. Trimming device. No. 1,032,165; July 9; Gaz. vol. 180; p. 495.
Swenson, Carl G., Worcester, Mass. Securing sockets to bails. No. 1,035,655; Aug. 13; Gaz. vol. 181; p. 455.
Swenson, Carl H., Montclair, N. J. Miter-box. No. 1,047,459; Dec. 17; Gaz. vol. 185; p. 648.
Swenson, Charles, Stamford, Conn. Plastic-applying device. No. 1,032,310; July 9; Gaz. vol. 180; p. 545.
Swenson, Herman C., assignor of one-fourth to W. J. Mendenhall, Minneapolis, Minn. Fly-paper holder. No. 1,015,520; Jan. 23; Sp. p. 5358; Gaz. vol. 174; p. 919.
Swenson, John W., Lindsborg, Kans. Fence-post. No. 1,046,676; Dec. 10; Gaz. vol. 185; p. 345.
Swenson, Luther L., Ottumwa, Iowa. Nut-lock. No. 1,013,521; Jan. 2; Sp. p. 940; Gaz. vol. 174; p. 154.
Swensson, Eric, assignor of one-half to National Iron Company, Duluth, Minn. Derrick. No. 1,018,529; Feb. 27; Sp. p. 5134; Gaz. vol. 175; p. 894.
Swern, Ernest V., assignor of one-fourth to J. H. East, Denver, Colo. Starting device for explosive-engines. No. 1,026,374; May 14; Sp. p. 2845; Gaz. vol. 178; p. 471.
Swett, Arthur H., and W. D. La Batt, assignors to American Tag Company, Chicago, Ill. Tag-machine. No. 1,037,367; Sept. 3; Gaz. vol. 182; p. 63.
Swett, William H., Berkeley, Cal. Heating system. No. 1,024,161; Apr. 23; Sp. p. 5150; Gaz. vol. 177; p. 904.
Swett, William H., assignor to W. H. Stenger, Berkeley, Cal. Tobacco-smoke-absorption apparatus. No. 1,018,996; Feb. 27; Sp. p. 6135; Gaz. vol. 175; p. 1054.
Swett, William H., assignor of one-half to W. A. Wann, Berkeley, Cal. Hot-air furnace. No. 1,026,777; May 21; Sp. p. 3715; Gaz. vol. 178; p. 644.
Swett, William H. H., Berkeley, assignor to California Likfresh Company, Oakland, Cal. Fruit-drier. No. 1,044,288; Nov. 12; Gaz. vol. 184; p. 465.
Swezey, Richard E., Patchogue, N. Y. Shade-fixture. No. 1,033,636; July 23; Gaz. vol. 180; p. 1075.
Swick, Cleveland W., Glenwood Springs, Colo. Combined level and pitch gage. No. 1,026,967; May 21; Sp. p. 4165; Gaz. vol. 178; p. 710.
Swick, Willbert L., Glenwood Springs, Colo. Flume. No. 1,022,008; Apr. 2; Sp. p. 556; Gaz. vol. 177; p. 87.
Swickard, Dan B., Galva, Ill. Clamp. No. 1,017,821; Feb. 20; Sp. p. 3513; Gaz. vol. 175; p. 617.
Swiecicki, Michael. (See Jankosky, Thomas, assignor.)
Swiecicki, Michael. (See Kunieski and Swiecicki.)
Swift, Benjamin F., Newton Stewart, Ind. Windmill. No. 1,021,560; Mar. 26; Sp. p. 5440; Gaz. vol. 176; p. 980.
Swift, Edward A., Seattle, Wash. Loading and unloading apparatus. No. 1,032,568; July 16; Gaz. vol. 180; p. 676.
Swift, George W., Jr., Bordentown, N. J. Corrugated paper-board. No. 1,032,789; July 16; Gaz. vol. 180; p. 754.
Swift, George W., Jr., Bordentown, N. J. Rotary shearing mechanism. No. 1,034,164; July 30; Gaz. vol. 180; p. 1282.
Swift, Willard E., Worcester, Mass. Transparent panel for envelops. No. 1,038,459; Sept. 10; Gaz. vol. 182; p. 466.

Alphabetical list of patentees—Continued.

Swift, Willard E., Worcester, assignor to United States Envelope Company, Springfield, Mass. Toilet-paper package. No. 1,038,457; Sept. 10; Gaz. vol. 182; p. 466.
Swift, Willard E., Worcester, assignor to United States Envelope Company, Springfield, Mass. Cabinet for toilet-paper. No. 1,038,458; Sept. 10; Gaz. vol. 182; p. 466.
Swift, William H., New York, N. Y. Adjustable hanging lamp. No. 1,016,588; Feb. 6; Sp. p. 822; Gaz. vol. 175; p. 123.
Swihart, Harvey E., Indianapolis, Ind. Ticket-holder. No. 1,040,051; Oct. 1; Gaz. vol. 183; p. 127.
Swinburne, Joseph B., *et al.* (See Morris, Charles D., assignor.)
Swindell, James D., Pittsburgh, Pa. Furnace. No. 1,021,342; Mar. 26; Sp. p. 4957; Gaz. vol. 176; p. 905.
Swindell, Walter B., Raleigh, N. C., assignor of one-half to J. B. Carr, Atlanta, Ga. Apparatus for compressing air and other fluids. No. 1,020,852; Mar. 19; Sp. p. 3945; Gaz. vol. 176; p. 687.
Swindell, Walter B., Raleigh, N. C., assignor of one-half to L. Goldberg, New York, N. Y., and one-fourth to F. H. Weathers, Raleigh, N. C. Bed-lock. No. 1,045,757; Nov. 26; Gaz. vol. 184; p. 1036.
Swindler, Samuel C., Pratt, Kans. Combination boiler and stove. No. 1,045,634; Nov. 26; Gaz. vol. 184; p. 994.
Swinehart, Benjamin C., Youngstown, Ohio. Vehicle-tire. No. 1,021,561; Mar. 26; Sp. p. 5443; Gaz. vol. 176; p. 980.
Swinehart, Benjamin C., Youngstown, Ohio. Vehicle wheel-tire. No. 1,021,711; Mar. 26; Sp. p. 5720; Gaz. vol. 176; p. 1028.
Swinehart, Benjamin C., Youngstown, Ohio. Sectional tire. No. 1,045,214; Nov. 26; Gaz. vol. 184; p. 845.
Swing, Alfred J., assignor to The Auto-Spring Wheel Company, Cincinnati, Ohio. Wheel. No. 1,018,088; Feb. 20; Sp. p. 4132; Gaz. vol. 175; p. 712.
Swingle, Calvin H., and A. M. Miltenberg, Chicago, Ill. Mouthpiece for telephone-transmitters. No. 1,018,730; Feb. 27; Sp. p. 5560; Gaz. vol. 175; p. 962.
Swinglehurst, Harry, Philadelphia, Pa., assignor, by mesne assignments, to Scott & Williams, Incorporated, Camden, N. J. Dial for knitting-machines. No. 1,025,169; May 7; Sp. p. 130; Gaz. vol. 178; p. 23.
Swinglehurst, Harry, Philadelphia, Pa., assignor, by mesne assignments, to Scott & Williams, Incorporated, Camden, N. J. Knitting-machine. No. 1,035,656; Aug. 13; Gaz. vol. 181; p. 455.
Swinglehurst, Harry, Philadelphia, Pa., assignor, by mesne assignments, to Scott & Williams, Incorporated, Camden, N. J. Yarn-supplying device for knitting-machines. No. 1,035,657; Aug. 13; Gaz. vol. 181; p. 455.
Swinglehurst, Harry, Philadelphia, Pa., assignor, by mesne assignments, to Scott & Williams, Incorporated, Camden, N. J. Knitted undergarment. No. 1,045,635; Nov. 26; Gaz. vol. 184; p. 994.
Swinny, Ross B., assignor of one-half to D. P. Shaw, Belpre, Ohio. Gage-cock. No. 1,023,051; Apr. 9; Sp. p. 2758; Gaz. vol. 177; p. 470.
Swinton, Ralph S., Linden, N. J., assignor to W. J. Bush & Co., Incorporated, Dover, Del. Manufacture of volatile organic acids from their calcium salts. No. 1,023,281; Apr. 16; Sp. p. 3296; Gaz. vol. 177; p. 589.
Swiontek, John, Pittsburgh, Pa. Scrubbing-machine. No. 1,044,942; Nov. 19; Gaz. vol. 184; p. 721.
Swisher, George W., Clifton Forge, Va. Lath. No. 1,020,329; Mar. 12; Sp. p. 2794; Gaz. vol. 176; p. 473.
Switalski, Clemens. (See Ault and Switalski.)
Switzer, Maurice, New York, N. Y. Convertible article of furniture. No. 1,017,342; Feb. 13; Sp. p. 2458; Gaz. vol. 175; p. 418.
Switzer, Maurice, New York, N. Y., assignor, by mesne assignments, to The Wilson Distilling Company, Jersey City, N. J. Closure and protecting device for bottles. No. 1,038,023; Sept. 10; Gaz. vol. 182; p. 318.
Switzer, Maurice, and J. D. Lacroix, New York, N. Y. Non-refillable bottle. No. 1,016,112; Jan. 30; Sp. p. 6633; Gaz. vol. 174; p. 1153.
Swortfiger, George F., East Orange, N. J. Wire-stretcher. No. 1,044,829; Nov. 19; Gaz. vol. 184; p. 683.
Swoveland, William F., assignor of one-half to W. C. Fletcher, Altoona, Pa. Trolley-wheel. No. 1,035,494; Aug. 13; Gaz. vol. 181; p. 401.
Swoverland, Leonard P., Bourbon, Ind. Silo. No. 1,016,528; Feb. 6; Sp. p. 685; Gaz. vol. 175; p. 102.
Swyney, George E., Seattle, Wash. Washbasin. No. 1,038,799; Sept. 17; Gaz. vol. 182; p. 618.
Sybenga, Richard, Pella, Iowa. Trousers-hanger. No. 1,027,223; May 21; Sp. p. 4740; Gaz. vol. 178; p. 796.
Sykes, Alfred, Huddersfield, England. Percussive drill, hammer, or like percussive tool or machine. No. 1,014,979; Jan. 16; Sp. p. 4222; Gaz. vol. 174; p. 710.
Sykes, Edwin, Huddersfield, England. Yarn-tension device. No. 1,014,980; Jan. 16; Sp. p. 4225; Gaz. vol. 174; p. 711.
Sykes, Edwin, Huddersfield, England. Yarn or like winding machine. No. 1,014,981; Jan. 16; Sp. p. 4226; Gaz. vol. 174; p. 711.
Sykes, George, Portland, Oreg., assignor of one-half to Hardie Manufacturing Company, Hudson, Mich. Fruit assorting and packing table. No. 1,046,038; Dec. 3; Gaz. vol. 185; p. 82.
Sylvester, Philip L., assignor to The Scranton Button Company, Scranton, Pa. Head for music-roll spools. No. 1,049,281; Dec. 31; Gaz. vol. 185; p. 1338.
Symington, Thomas H., Baltimore, Md. Forming expanded bearing-surfaces. No. 1,045,341; Nov. 26; Gaz. vol. 184; p. 889.
Symmes, Whitman, Virginia City, and W. E. Trent, Reno, Nev. Apparatus for precipitating value-bearing solutions. No. 1,048,373; Dec. 24; Gaz. vol. 185; p. 988.
Symmonds, Robert, Jr., assignor to T. B. Jeffery, deceased, Kenosha, Wis.; K. E., C. T., and H. W. Jeffery, executors. Automobile. No. 1,020,375; Mar. 12; Sp. p. 2883; Gaz. vol. 176; p. 488.
Symmonds, Robert, Jr., assignor to T. B. Jeffery, deceased, Kenosha, Wis.; K. E., C. T., and H. W. Jeffery, executors. Adjustable steering-post for automobiles. No. 1,020,376; Mar. 12; Sp. p. 2886; Gaz. vol. 176; p. 489.
Symons, Arthur H., Kansas City, Kans. Clamp for concrete-forms. No. 1,020,164; Mar. 12; Sp. p. 2467; Gaz. vol. 176; p. 420.
Symons, Arthur H., and G. E. Conklin, Kansas City, Kans.; said Conklin assignor to said Symons. Clamp for concrete-forms. No. 1,036,025; Aug. 20; Gaz. vol. 181; p. 616.
Symons, Edgar B., Milwaukee, Wis. Crushing-machine. No. 1,013,626; Jan. 2; Sp. p. 1160; Gaz. vol. 174; p. 184.
Symons, Edgar B., Milwaukee, Wis. Vacuum-cleaner. No. 1,037,368; Sept. 3; Gaz. vol. 182; p. 64.
Symons, Edgar B., assignor to Smith and Post Company, Milwaukee, Wis. Stone-crusher. No. 1,016,904; Feb. 6; Sp. p. 1487; Gaz. vol. 175; p. 230.
Symons, Edgar B., Fort Wayne, Ind., assignor, by mesne assignments, to Smith and Post Company, Milwaukee, Wis. Stone-crushing machine. No. 1,019,997; Mar. 12; Sp. p. 2114; Gaz. vol. 176; p. 364.
Symons, Wilson E., Chicago, Ill. Alarm for automobiles. No. 1,019,552; Mar. 5; Sp. p. 1232; Gaz. vol. 176; p. 184.
Symons, Wilson E., Chicago, Ill. Draft-rigging for cars. No. 1,040,052; Oct. 1; Gaz. vol. 183; p. 127.
Syracuse Chilled Plow Company. (See Chase, Aurin M., assignor.)
Syracuse, Fortunatus F., New York, N. Y. Combination non-refillable bottle and drinking-cup. No. 1,039,843; Oct. 1; Gaz. vol. 183; p. 59.
Syverson, Gilfred, Glenwood, Minn. Runner for go-carts. No. 1,027,224; May 21; Sp. p. 4741; Gaz. vol. 178; p. 797.
Syverson, Gunder, Tioga, N. D. Article-hanger. No. 1,025,030; Apr. 30; Sp. p. 7054; Gaz. vol. 177; p. 1239.
Szabados, Antony, assignor of one-half to H. Mueller, New Michel, British Columbia, Canada. Rail-fastener. No. 1,021,954; Apr. 2; Sp. p. 439; Gaz. vol. 177; p. 70.
Szabados, Antony, assignor of one-half to H. Mueller, New Michel, British Columbia, Canada. Rail-joint. No. 1,021,955; Apr. 2; Sp. p. 441; Gaz. vol. 177; p. 70.
Szabados, Antony, assignor of one-half to H. Mueller, New Michel, British Columbia, Canada. Wrench. No. 1,025,431; May 7; Sp. p. 707; Gaz. vol. 178; p. 112.
Szabados, Antony, assignor of one-sixth to H. Mueller, one-sixth to M. Unoka, and one-sixth to G. Hekell, New Michel, British Columbia, Canada. Cuspidor. No. 1,024,954; Apr. 30; Sp. p. 6912; Gaz. vol. 177; p. 1214.
Szafran, Kazimèr, Philadelphia, Pa. Car-coupling. No. 1,013,906; Jan. 9; Sp. p. 1825; Gaz. vol. 174; p. 312.
Szathmáry, Paul, Clarence, N. Y. Conveyer for molten metal. No. 1,018,217; Feb. 20; Sp. p. 4399; Gaz. vol. 175; p. 756.
Szathmáry, Paul, Clarence, N. Y. Feed-bag. No. 1,026,720; May 21; Sp. p. 3582; Gaz. vol. 178; p. 624.
Szczyglinski, Louis, Scranton, Pa. Flushing system for closets. No. 1,015,653; Jan. 23; Sp. p. 5656; Gaz. vol. 174; p. 966.
Széchenyi, Emil. (See Köszegi and Széchenyi.)
Szeitl, Max, Stamford, Conn. Attachment for drill-chucks and drills. No. 1,035,495; Aug. 13; Gaz. vol. 181; p. 401.
Szekely, Mary, Lackawanna, N. Y. Hat-pin retainer. No. 1,014,423; Jan. 9; Sp. p. 2964; Gaz. vol. 174; p. 492.
Szentivanyi, Kalman, assignor of fifteen one hundredths to R. F. Horvath, Hartford, Conn. Lowering device. No. 1,021,643; Mar. 26; Sp. p. 5598; Gaz. vol. 176; p. 1006.
Szpor, Zdzislaw, Stanislawow, Austria-Hungary. Primary battery. No. 1,022,276; Apr. 2; Sp. p. 1096; Gaz. vol. 177; p. 176.
Sztejnert, Kazimierz, Hazleton, Pa. Rail-fastener. No. 1,016,045; Jan. 30; Sp. p. 6496; Gaz. vol. 174; p. 1130.
Szücs, John. (See Lukács, Lázár, assignor.)
Szücs, Vincze, Barberton, Ohio. Switch-throwing device. No. 1,030,941; July 2; Gaz. vol. 180; p. 31.
Szuminsky, Peter, Hamilton, Ontario, Canada. Trolley. No. 1,024,293; Apr. 23; Sp. p. 5431; Gaz. vol. 177; p. 951.
Szumlinski, John, Amsterdam, N. Y. Puzzle-box. No. 1,017,343; Feb. 13; Sp. p. 2460; Gaz. vol. 175; p. 418.
T. Buettner & Co. (See Horváth, Guido, assignor.)
T. A. Willson & Co. (See Willson and Bourquin, assignors.)

Alphabetical list of patentees—Continued.

T. A. Willson & Company. (See Bourquin, Numa, assignor.)
T. E. & C. S. McCall Co. (See Brasington, John M., assignor.)
T. S. Simms and Company. (See Purdy, Simeon D., assignor.)
T. W. Snow Construction Company. (See Moore, Moses M., assignor.)
Taack, Ed G., True, Tex. Spark-arrester. No. 1,022,277; Apr. 2; Sp. p. 1097; Gaz. vol. 177; p. 176.
Taber, Charles J., Bainbridge, N. Y. Rack for paper bags. No. 1,031,595; July 2; Gaz. vol. 180; p. 258.
Taber, Harry P., Wilmington, Del. Decorating fiber. No. 1,036,163; Aug. 20; Gaz. vol. 181; p. 666.
Taber, Herschel H. (See Alvord, Elisha H., assignor.) (Reissue.)
Tabler, Frank C., assignor of fifty-one one-hundredths to G. V. R. Mechin, St. Louis, Mo. Antiseptic mouthpiece for telephones. No. 1,026,414; May 14; Sp. p. 2929; Gaz. vol. 178; p. 485.
Tabler, Herbert K., Colmar, Ill. Advertising-card. No. 1,036,930; Aug. 27; Gaz. vol. 181; p. 959.
Tabor, Albert B., Providence, R. I., assignor to Willcox & Gibbs Sewing Machine Co., New York, N. Y. Looper mechanism for sewing-machines. No. 1,041,698; Oct. 15; Gaz. vol. 183; p. 747.
Tabor, Leroy, and H. K. Hathaway, assignors, by mesne assignments, to The Tabor Manufacturing Company, Philadelphia, Pa. Lathe-tool-setting apparatus. No. 1,017,703; Feb. 20; Sp. p. 3202; Gaz. vol. 175; p. 575.
Tabor Manufacturing Company, The. (See Lewis, Wilfred, assignor.)
Tabor Manufacturing Company, The. (See Tabor and Hathaway, assignors.)
Tabulating Machine Company, The. (See Hollerith, Herman, assignor.)
Tabulo, Louis, London, England. Block or hoisting-gear. No. 1,014,728; Jan. 16; Sp. p. 3649; Gaz. vol. 174; p. 624.
Tacke, Carl, Jr., Holzminden, Germany. Automatic door closer. No. 1,032,569; July 16; Gaz. vol. 180; p. 677
Taenchen, Ludwig C. P., Ivanhoe, Colo. Railway-switch. No. 1,021,644; Mar. 26; Sp. p. 5600; Gaz. vol. 176; p. 1007.
Taeschner, Otto H., and R. E. Wirth, Chicago, Ill. Pipe-forming machine. No. 1,032,634; July 16; Gaz. vol. 180; p. 700.
Taff, Frederick N., Millington, N. J. Cultivator. No. 1,034,165; July 30; Gaz. vol. 180; p. 1283.
Taff, George A., Colorado Springs, Colo. Hydrocarbon-engine. No. 1,048,760; Dec. 31; Gaz. vol. 185; p. 1160.
Taft, Hiram E., Northbridge, Mass., assignor of one-half to E. V. Granger, Burrellville, R. I. Lock-nut. No. 1,019,379; Mar. 5; Sp. p. 879; Gaz. vol. 176; p. 129.
Taft, Jesse R., and C. F. Pember, New York, N. Y. Fire-escape apparatus. No. 1,019,284; Mar. 5; Sp. p. 621; Gaz. vol. 176; p. 97.
Taft, Ray B., Hingham, Mass. Implement-holder. No. 1,040,053; Oct. 1; Gaz. vol. 183; p. 127.
Taft, Samuel B. (See Poirier, Arthur F., assignor.)
Taft, Sydney E. (See Hammond and Taft.)
Taft, Sydney E., South Framingham, Mass., assignor, by mesne assignments, to United Shoe Machinery Company, Paterson, N. J. Machine for cutting in the shanks of shoes. No. 1,048,374; Dec. 24; Gaz. vol. 185; p. 989.
Taggart, John W., Sr. (See Mitchell and Taggart.)
Taggart, William N., assignor to Miller & Sons Co., Philadelphia, Pa. Splicing mechanism for knitting-machines. No. 1,044,943; Nov. 19; Gaz. vol. 184; p. 721.
Taggart, William W., Canton, Ohio. Quilting and stretching frame. No. 1,042,170; Oct. 22; Gaz. vol. 183; p. 944.
Tagliabue, Charles J. (See Boman, Claes W., assignor.)
Tagliabue, Charles J. (See McIntyre, Frank, assignor.)
Taicher, Adolph, Maribel, Wis. Draft attachment. No. 1,029,093; June 11; Sp. p. 2230; Gaz. vol. 179; p. 381.
Taigman, Max, New York, N. Y. Pulley-brake for motor-controlled apparatus. No. 1,044,944; Nov. 19; Gaz. vol. 184; p. 722.
Tailors' Form Company. (See Downey, Richard F., assignor.)
Tainter, Silas B., Seattle, Wash., and W. H. Kelly, Los Angeles, Cal. Oil-burner. No. 1,044,104; Nov. 12; Gaz. vol. 184; p. 402.
Tainter, Willis W., Dixfield, Me., assignor to F. W. Butler and R. T. Whitehouse, trustees of C. Forster, deceased. Sight-glass for toothpick-packing machines and the like. No. 1,033,128; July 23; Gaz. vol. 180; p. 905.
Taintor, Charles C., Elizabeth, N. J. Framing-tool. No. 1,029,774; June 18; Sp. p. 3699; Gaz. vol. 179; p. 652.
Taisey, Fred R., Lowell, Mass., assignor to Lamson Consolidated Store Service Company, Newark, N. J. Carrier for pneumatic-tube apparatus. No. 1,031,826; July 9; Gaz. vol. 180; p. 382.
Tait, Laroy E., Red Cloud, Nebr. Spark-indicator. No. 1,015,096; Jan. 16; Sp. p. 4454; Gaz. vol. 174; p. 749.
Taitt, George R. (See Vogel and Taitt.)
Takács, István, Barberton, Ohio. Electric trap. No. 1,023,599; Apr. 16; Sp. p. 3929; Gaz. vol. 177; p. 690.
Takács, Steve, Newark, Ohio. Wrench. No. 1,042,053; Oct. 22; Gaz. vol. 183; p. 906.
Takahashi, Kakuji, San Francisco, Cal. Fastener for brooches and the like. No. 1,042,291; Oct. 22; Gaz. vol. 183; p. 983.
Takahashi, Kanichi. (See Koike and Takahashi.)
Takahashi, Minosaku, Harlowton, Mont. Vessel-closure. No. 1,014,536; Jan. 9; Sp. p. 3163; Gaz. vol. 174; p. 527.
Talansier, Marie J., Paris, France. Apparatus for fixation of liquids. No. 1,042,171; Oct. 22; Gaz. vol. 183; p. 944.
Talbert, Daniel H., assignor to The American Box Ball Company, Indianapolis, Ind. Amusement apparatus. No. 1,035,659; Aug. 13; Gaz. vol. 181; p. 456.
Talbert, Daniel H., C. Shaw, J. I. Holcomb, and J. F. Hoke, Jr., assignors to The American Box Ball Company, Indianapolis, Ind. Bowling apparatus. No. 1,035,658; Aug. 13; Gaz. vol. 181; p. 456.
Talbert, Joseph W., *et al.* (See Loveless, Fred H., assignor.)
Talbert, Paul A., *et al.* (See Loveless, Fred H., assignor.)
Talbot, James A., and H. E. Brett, Los Angeles, Cal. Multiple-plunger stake-press. No. 1,047,853; Dec. 17; Gaz. vol. 185; p. 786.
Talbot, Oliver C., Kansas City, Mo. Automatic clutch. (Reissue.) No. 13,444; July 16; Gaz. vol. 180; p. 851.
Talbot, Paul A., Seattle, Wash. Steam-generator. No. 1,038,024; Sept. 10; Gaz. vol. 182; p. 318.
Talbot, Rollie J., Whiteclay, Nebr. Grip for wire-stretchers. No. 1,020,728; Mar. 19; Sp. p. 3671; Gaz. vol. 176; p. 646.
Taliaferro, Edward E., and E. J. Goldsworthy, Colorado Springs, Colo. Cigar-holder. No. 1,013,236; Jan. 2; Sp. p. 324; Gaz. vol. 174; p. 51.
Talks, Henry, Astoria, N. Y. Protecting mechanism for looms. No. 1,018,686; Feb. 27; Sp. p. 5465; Gaz. vol. 175; p. 947.
Tallmadge, Charles H., Chicago, Ill., assignor, by mesne assignments, to W. R. Heath, Buffalo, N. Y. Method of performing division. No. 1,047,854; Dec. 17; Gaz. vol. 185; p. 787.
Tallman, George C., Syracuse, N. Y. Testing apparatus for hollow castings. No. 1,017,704; Feb. 20; Sp. p. 3203; Gaz. vol. 175; p. 576.
Tallman, Horace M., Shelbyville, Ill. Baling-press. No. 1,035,263; Aug. 13; Gaz. vol. 181; p. 319.
Tallman, Joseph H., assignor, by mesne assignments, of one-half to T. J. Rock, Houston, Tex. Folding cabinet. No. 1,030,033; June 18; Sp. p. 4276; Gaz. vol. 179; p. 741.
Tallon, Thomas F., Maryville, Mo. Windlass for hay-forks. No. 1,038,800; Sept. 17; Gaz. vol. 182; p. 618.
Talmage, John G., Cleveland, Ohio. Gage-glass connection. No. 1,046,234; Dec. 3; Gaz. vol. 185; p. 152.
Talmage, John G., Cleveland, Ohio. Attachment for locomotive ash-pans. No. 1,046,403; Dec. 3; Gaz. vol. 185; p. 212.
Talmage, John G., Cleveland, Ohio. Air-admission device for locomotive fire-boxes. No. 1,047,590; Dec. 17; Gaz. vol. 185; p. 694.
Talmon, Nettie, *et al.* (See Kerns, James, assignor.)
Tambach, Rudolf, assignor to Knoll and Company, Ludwigshafen-on-the-Rhine, Germany. Casein derivatives and manufacture of the same. No. 1,037,685; Sept. 3; Gaz. vol. 182; p. 172.
Tambacopolo, Constantine E. M., New York, N. Y. Condenser for smelter-furnace fumes. No. 1,023,600; Apr. 16; Sp. p. 3930; Gaz. vol. 177; p. 690.
Tamburini, Matthew, Paterson, N. J. Measuring device. No. 1,021,956; Apr. 2; Sp. p. 442; Gaz. vol. 177; p. 71.
Tampier, René, Paris, France. Aerial apparatus. No. 1,044,945; Nov. 19; Gaz. vol. 184; p. 722.
Tandy, John L., Kansas City, Mo. Cot or couch. No. 1,019,553; Mar. 5; Sp. p. 1235; Gaz. vol. 176; p. 185.
Taneyhill, Harry W. (See Cooper, Taneyhill, and Page.)
Tangeman, Eldo J., Keystone, Iowa. Gate or door lock. No. 1,022,981; Apr. 9; Sp. p. 2623; Gaz. vol. 177; p. 447.
Tangeman, Eldo J., Keystone, Iowa. Carpet-cleaner. No. 1,042,054; Oct. 22; Gaz. vol. 183; p. 906.
Tank, Henry P., Alameda, assignor of three-tenths to L. B. Krieger and four-tenths to B. L. Davis, San Francisco, Cal. Alarm-valve. No. 1,019,200; Mar. 5; Sp. p. 430; Gaz. vol. 176; p. 68.
Tanne, Julius, Rozniatow, Austria-Hungary, assignor of one-half to G. Oberländer, Berlin, Germany. Manufacturing paraffin. No. 1,019,102; Mar. 5; Sp. p. 205; Gaz. vol. 176; p. 33.
Tanner, Albert F., Greenfield, Wis. Cyanid plant. No. 1,034,532; Aug. 6; Gaz. vol. 181; p. 44.
Tanner, Clark L., Miles City, Mont. Lubricating device for wheel-flanges. No. 1,027,930; May 28; Sp. p. 6243; Gaz. vol. 178; p. 1072.
Tanner, Felix, Sydney, New South Wales, Australia. Means for the prevention of racing of marine engines. No. 1,038,460; Sept. 10; Gaz. vol. 182; p. 467.
Tanner, Frank J. (See Jones and Tanner.)

Alphabetical list of patentees—Continued.

Tanner, Frank W., Fairbanks, Tex. Hay-press. No. 1,017,822; Feb. 20; Sp. p. 3514; Gaz. vol. 175; p. 617.
Tanner, Joseph J., Clover, Utah. Parachute. No. 1,019,858; Mar. 12; Sp. p. 1818; Gaz. vol. 176; p. 318.
Tanner, Julius R., Pittsburgh, Pa. Diaphragm. No. 1,034,323; July 30; Gaz. vol. 180; p. 1337.
Tanner, Louis E. (See Ficken and Tanner.)
Tanner, Perry E. (See Flegel, Harrison D., assignor.)
Tanner, Perry E. (See Warden, William F., assignor.)
Tanner, Perry E., Akron, Ohio. Fluid-receptacle. No. 1,046,506; Dec. 10; Gaz. vol. 185; p. 285.
Tanner, Traugotte A., assignor of one-half to B. F. Miller, Jr., Flint, Mich. Flying-machine. No. 1,037,804; Sept. 3; Gaz. vol. 182; p. 209.
Tanning Extract Company. (See Dickerson, Walter H., assignor.)
Tansey, Howard F. (See Weer and Tansey.)
Tansill, Charles R., New York, N. Y. Loading and discharging wagon-body. No. 1,038,230; Sept. 10; Gaz. vol. 182; p. 385.
Tanzy, Peter R. (See Magnusson, John A., assignor.)
Taplinger, Nellie. (See Taplinger, William J., assignor.)
Taplinger, William J., assignor to N. Taplinger, Philadelphia, Pa. Stand for dress-forms. No. 1,022,608; Apr. 9; Sp. p. 1814; Gaz. vol. 177; p. 317.
Tappan, Charles O., assignor to Allis-Chalmers Company, Milwaukee, Wis. Hydraulic-power plant. No. 1,018,278; Feb. 20; Sp. p. 4520; Gaz. vol. 175; p. 777.
Tappan, Frank T., Coldwater, Mich. Making stitch-down shoes. No. 1,036,371; Aug. 20; Gaz. vol. 181; p. 740.
Tappey, Leopold C. (See Prenzel, Adam H., assignor.)
Tarbell, Frank L., assignor of one-half to M. H. Fisher, Chicago, Ill. Ice-cream-cone dispenser. No. 1,041,192; Oct. 15; Gaz. vol. 183; p. 579.
Tarbox, Fred O., Haverhill, Mass. Combined mop holder and wringer. No. 1,022,982; Apr. 9; Sp. p. 2624; Gaz. vol. 177; p. 447.
Tarbuck, Walter, Philadelphia, Pa. Clamp. No. 1,026,475; May 14; Sp. p. 3064; Gaz. vol. 178; p. 504.
Tardieu, Victorien, Arles, France. Circuit-closer. No. 1,017,604; Feb. 13; Sp. p. 2997; Gaz. vol. 175; p. 506.
Tardiff, Paul E., assignor of one-half to E. A. Cudahey, Claremont, N. H. Combined shade and curtain bracket. No. 1,027,931; May 28; Sp. p. 6246; Gaz. vol. 178; p. 1073.
Tarkington, Clarence G. (See Varney and Tarkington.)
Tarrant, William P., Saratoga Springs, N. Y. Pouring-pot. No. 1,021,015; Mar. 26; Sp. p. 4270; Gaz. vol. 176; p. 793.
Tarrant, William P., Saratoga Springs, N. Y. Clothes-drier. No. 1,045,455; Nov. 26; Gaz. vol. 184; p. 929.
Tartrais, Eugène H., Montmorency, France. Packing for slide-valves. No. 1,031,973; July 9; Gaz. vol. 180; p. 432.
Tashjian, Armen H., Portland, Me. Frame for reinforced concrete structures. No. 1,013,698; Jan. 2; Sp. p. 1353; Gaz. vol. 174; p. 210.
Tatarek, Edmond, Budapest, assignor of one-half to Johan von Benko de Arkosi, Debreczen, Austria-Hungary. Automatic cartridge-magazine for firearms. No. 1,042,837; Oct. 29; Gaz. vol. 183; p. 1202.
Tate, Charles S., Chicago, assignor of one-half to F. M. Osterberg, Rockford, Ill. Razor-guard. No. 1,034,743; Aug. 6; Gaz. vol. 181; p. 115.
Tate, Earl H., Los Angeles, Cal. Amalgamating-flume table. No. 1,021,277; Mar. 26; Sp. p. 4826; Gaz. vol. 176; p. 880.
Tate, Earl H., Los Angeles, Cal. Incandescent lamp. No. 1,032,961; July 16; Gaz. vol. 180; p. 809.
Tate, Earl H., Los Angeles, Cal. Incandescent electric lamp. No. 1,036,744; Aug. 27; Gaz. vol. 181; p. 898.
Tate, Earl H., Los Angeles, Cal. Incandescent electric lamp. No. 1,038,681; Sept. 17; Gaz. vol. 182; p. 577.
Tate, Earl H., Los Angeles, Cal. Reflecting electrical lamp. No. 1,046,677; Dec. 10; Gaz. vol. 185; p. 346.
Tate, Frank C., *et al.* (See Cunningham, Edward R., assignor.)
Tate, George W., and C. W. Rice, Chappell, Nebr. Flying-machine. No. 1,020,935; Mar. 19; Sp. p. 4088; Gaz. vol. 176; p. 714.
Tate, James E., Middleton, Ga. Fountain tooth-brush. No. 1,014,784; Jan. 16; Sp. p. 3778; Gaz. vol. 174; p. 642.
Tate, James N., Faribault, Minn. Door-stop. No. 1,035,264; Aug. 13; Gaz. vol. 181; p. 320.
Tate, Joseph H., Richmond, Va. Smoke-consumer. No. 1,041,899; Oct. 22; Gaz. vol. 183; p. 855.
Tate, Samuel W., Pontiac, Ill. Wire-stretcher. No. 1,049,169; Dec. 31; Gaz. vol. 185; p. 1300.
Tatham, Arthur W., Detroit, Mich. Making wax patterns for castings for dental work. No. 1,033,489; July 23; Gaz. vol. 180; p. 1026.
Tatlow, Richard H., Jr., Denver, Colo. Match-safe. No. 1,041,370; Oct. 15; Gaz. vol. 183; p. 640.
Tatman, James M., assignor to The Cincinnati Precision Lathe Co., Cincinnati, Ohio. Gearing for lathes. No. 1,031,396; July 2; Gaz. vol. 180; p. 192.
Tatman, William H., Wann, Okla. Attachment for internal-combustion engines. No. 1,043,643; Nov. 5; Gaz. vol. 184; p. 212.
Tatro, Charles P. (See Delius and Tatro.)
Tattersall, Alfred R., London, England. Apparatus for making flour and meal. No. 1,037,805; Sept. 3; Gaz. vol. 182; p. 209.
Tattersall, Alfred R., London, England. Roll-adjusting device for roller grinding-mills. No. 1,037,838; Sept. 3; Gaz. vol. 182; p. 220.
Tattersall, Alfred R., London, England. Centrifugal dresser. No. 1,037,839; Sept. 3; Gaz. vol. 182; p. 220.
Tatum, Albert H., assignor to Whitall Tatum Company, New York, N. Y. Nursing-nipple. No. 1,045,456; Nov. 26; Gaz. vol. 184; p. 929.
Tatum, Daniel G., Hendersonville, N. C. Running-gear. No. 1,032,311; July 9; Gaz. vol. 180; p. 546.
Tatum, Franklin M., Nacogdoches, assignor of one-sixth to J. T. Norris, one-sixth to H. E. Norris, eight thirty-sixths to D. B. Woods, one-eighteenth to J. M. Sanders, two twenty-fourths to W. I. Davis, one twenty-fourth to J. D. Redditt, one twenty-fourth to R. E. Harkrider, Center, Tex., one-eighteenth to T. M. Barham, Kansas City, Mo., and one-sixth to A. R. Fox, Center, Tex. Roller-bearing. No. 1,041,900; Oct. 22; Gaz. vol. 183; p. 855.
Tatum, James W., Angier, N. C. Curtain-shade-operating means. No. 1,033,490; July 23; Gaz. vol. 180; p. 1026.
Tatum, John J. (See Prendergast and Tatum.)
Tatum, Lewis L., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Electric-switch contact. No. 1,040,455; Oct. 8; Gaz. vol. 183; p. 293.
Taub, Ludwig, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. 2-phenylquinolin-4-carboxylic-acid ester. No. 1,022,444; Apr. 9; Sp. p. 1461; Gaz. vol. 177; p. 262.
Taub, Ludwig, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Disinfecting agent. No. 1,034,166; July 30; Gaz. vol. 180; p. 1284.
Taub, Ludwig, and H. Hahl, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Glycol ester of benzoic acid. No. 1,014,859; Jan. 16; Sp. p. 3957; Gaz. vol. 174; p. 669.
Taub, Ludwig, and H. Hahl, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Pharmaceutical product. No. 1,022,645; Apr. 9; Sp. p. 1890; Gaz. vol. 177; p. 330.
Tauber, John C., Erie, Pa. Pneumatic cleaner. No. 1,024,041; Apr. 23; Sp. p. 4868; Gaz. vol. 177; p. 863.
Taubert, Robert, assignor to Union Special Machine Company, Chicago, Ill. Presser-foot for sewing-machines. No. 1,046,404; Dec. 3; Gaz. vol. 185; p. 212.
Taupert, Robert J., Las Vegas, N. Mex. Link-button. No. 1,041,371; Oct. 15; Gaz. vol. 183; p. 640.
Tauscher, John, Ellis, Kans. Poke. No. 1,041,372; Oct. 15; Gaz. vol. 183; p. 640.
Taute, Karl E., assignor of one-half to T. R. Hill, Haverhill, Mass. Ventilated shoe. No. 1,035,496; Aug. 13; Gaz. vol. 181; p. 402.
Taximeter Control Company. (See Sulsona, Joseph D., assignor.)
Taylor, Albertis C., assignor to The National Electric Welder Company, Warren, Ohio. Electric welding-machine. No. 1,021,732; Mar. 26; Sp. p. 5765; Gaz. vol. 176; p. 1035.
Taylor, Alton B., assignor of one-half to A. P. Geiser, Washington, Pa. Rail-joint. No. 1,023,690; Apr. 16; Sp. p. 4087; Gaz. vol. 177; p. 717.
Taylor, Arthur M., Keuka Park, N. Y., assignor to The Taylor Basket and Machine Company, Erie, Pa. Basket-nailing machine. No. 1,040,456; Oct. 8; Gaz. vol. 183; p. 294.
Taylor, Arthur M., Keuka Park, N. Y., assignor to The Taylor Basket and Machine Company, Erie, Pa. Basket-making machine. No. 1,040,457; Oct. 8; Gaz. vol. 183; p. 294.
Taylor, Arthur M., Keuka Park, N. Y., assignor to The Taylor Basket & Machine Company, Erie, Pa. Basket-making machine. No. 1,040,590; Oct. 8; Gaz. vol. 183; p. 342.
Taylor Basket and Machine Company, The. (See Taylor, Arthur M., assignor.)
Taylor Brothers Company. (See Mortenson, Samuel E., assignor.)
Taylor-Burt Company. (See Waite and Walker, assignors.)
Taylor, Burt E., Randolph, assignor to Borden's Condensed Milk Company, New York, N. Y. Can-capping machine and feeding device thereto adapted. No. 1,029,326; June 11; Sp. p. 2726; Gaz. vol. 179; p. 461.
Taylor, Calvin C., assignor to C. H. Scarritt, St. Louis, Mo. Car-chair. No. 1,047,460; Dec. 17; Gaz. vol. 185; p. 648.
Taylor, Calvin C., assignor to C. H. Scarritt, St. Louis, Mo. Reclining car-chair. No. 1,047,461; Dec. 17; Gaz. vol. 185; p. 648.
Taylor, Calvin C., assignor to C. H. Scarritt, St. Louis, Mo. Reclining car-chair. No. 1,047,462; Dec. 17; Gaz. vol. 185; p. 649.
Taylor, Cecil H., assignor to Chalmers-Detroit Motor Company, Detroit, Mich. Vehicle-axle. No. 1,048,230; Dec. 24; Gaz. vol. 185; p. 940.

Alphabetical list of patentees—Continued.

Taylor, Cecil H., and H. E. Coffin, Detroit, Mich. Lubricating system for explosion-engines. No. 1,026,287; May 14; Sp. p. 2637; Gaz. vol. 178; p. 441.
Taylor, Cecil H., and H. E. Coffin, assignors to Hudson Motor Car Company, Detroit, Mich. Clutch. No. 1,034,845; Aug. 6; Gaz. vol. 181; p. 149.
Taylor, Charles C., Washington, D. C., assignor, by mesne assignments, to Union Typewriter Company, Jersey City, N. J. Type-writing and computing machine. No. 1,032,347; July 9; Gaz. vol. 180; p. 559.
Taylor, Charles E., Pittsburgh, and A. C. Wolfe, Alicia, Pa. Cleansing and wiping device. No. 1,038,231; Sept. 10; Gaz. vol. 182; p. 385.
Taylor, Charles E., Pittsburgh, and A. C. Wolfe, Alicia, Pa. Apparatus for watering coke in coke-ovens. No. 1,049,006; Dec. 31; Gaz. vol. 185; p. 1246.
Taylor, Charles G., *et al.* (See Robinson, Clark, assignor.)
Taylor, Charles H., Heclay, S. D. Gang-plow. No. 1,036,745; Aug. 27; Gaz. vol. 181; p. 898.
Taylor, Charles M. (See Fitzgerald, Daniel E., assignor.)
Taylor, Clarence L., assignor to The Morgan Engineering Company, Alliance, Ohio. Three-high-roll mill. No. 1,014,676; Jan. 16; Sp. p. 3547; Gaz. vol. 174; p. 607.
Taylor, Clarence L., assignor to The Morgan Engineering Company, Alliance, Ohio. Rolling-mill. No. 1,045,636; Nov. 26; Gaz. vol. 184; p. 994.
Taylor, Clarence L., assignor to W. H. Morgan, Alliance, Ohio. Means for securing rails to metal ties. No. 1,017,925; Feb. 20; Sp. p. 3774; Gaz. vol. 175; p. 656.
Taylor, Clarence W., Chicago, Ill. Power-transmission mechanism. No. 1,025,331; May 7; Sp. p. 498; Gaz. vol. 178; p. 77.
Taylor, Clarence W., Chicago, Ill. Power-transmission mechanism. No. 1,025,332; May 7; Sp. p. 499; Gaz. vol. 178; p. 78.
Taylor, Clarence W., Chicago, Ill. Power transmission. No. 1,043,372; Nov. 5; Gaz. vol. 184; p. 117.
Taylor and Company. (See Taylor, William O., assignor.)
Taylor, Cornelius L., Huntington, W. Va. Portable fireplace. No. 1,029,151; June 11; Sp. p. 2349; Gaz. vol. 179; p. 400.
Taylor, Daniel H., Palisades, Colo. Device for preventing collisions at sea. No. 1,020,330; Mar. 12; Sp. p. 2796; Gaz. vol. 176; p. 474.
Taylor, Daniel H., Tercio, Colo. Automatic coupling for mine-cars. No. 1,028,634; June 4; Sp. p. 1230; Gaz. vol. 179; p. 189.
Taylor, Daniel L. (See Hanford and Taylor.)
Taylor, Edward D., Harper, W. Va. Packing-gland. No. 1,020,780; Mar. 19; Sp. p. 3785; Gaz. vol. 176; p. 663.
Taylor, Edward E., Chelsea, assignor to W. Gray, Amesbury, Mass. Lamp. No. 1,015,219; Jan. 16; Sp. p. 4678; Gaz. vol. 174; p. 789.
Taylor, Edward E., and D. H. Elkins, assignors to W. Gray, Amesbury, Mass. Switch. No. 1,015,097; Jan. 16; Sp. p. 4456; Gaz. vol. 174; p. 750.
Taylor, Edward R., Penn Yan, N. Y. Electrode-collar for electric furnaces. No. 1,028,150; June 4; Sp. p. 156; Gaz. vol. 179; p. 24.
Taylor, Edward R., Penn Yan, N. Y. Method and apparatus for producing and feeding furnace-electrodes. No. 1,043,481; Nov. 5; Gaz. vol. 184; p. 157.
Taylor, Edward S., Des Moines, Iowa. Lamp-burner. No. 1,048,761; Dec. 31; Gaz. vol. 185; p. 1161.
Taylor, Edward W., Salt Lake City, Utah. Nut-lock. No. 1,024,107; Apr. 23; Sp. p. 5016; Gaz. vol. 177; p. 886.
Taylor, Edwin, Farmingdale, assignor to D. M. Neuberger, New York, N. Y. Engine. No. 1,013,907; Jan. 9; Sp. p. 1825; Gaz. vol. 174; p. 312.
Taylor, Edwin, Farmingdale, assignor to Union Clay Products Company, New York, N. Y. Vulcanization. No. 1,017,926; Feb. 20; Sp. p. 3775; Gaz. vol. 175; p. 656.
Taylor, Edwin, Farmingdale, assignor to Union Clay Products Company, New York, N. Y. Composition containing vulcanized oil and manufacture. No. 1,025,217; May 7; Sp. p. 237; Gaz. vol. 178; p. 40.
Taylor, Edwin, Brooklyn, assignor to Union Clay Products Company, New York, N. Y. Aluminous composition. No. 1,020,781; Mar. 19; Sp. p. 3786; Gaz. vol. 176; p. 663.
Taylor, Elmer Z., London, England, assignor, by mesne assignments, to American Mono Service Company, Atlantic City, N. J. Machine for making conical paper tubes. No. 1,020,165; Mar. 12; Sp. p. 2469; Gaz. vol. 176; p. 420.
Taylor, Elmer Z., London, England, assignor, by mesne assignments, to American Mono Service Company, Atlantic City, N. J. Apparatus for manufacture of paper vessels. No. 1,023,052; Apr. 9; Sp. p. 2760; Gaz. vol. 177; p. 471.
Taylor, Ernest J., Highlandville, Mass. Roller-bearing. No. 1,020,523; Mar. 19; Sp. p. 3212; Gaz. vol. 176; p. 575.
Taylor, Ernest M., assignor of one-third to W. E. Poole, Petersburg, Va. Car-replacer. No. 1,015,098; Jan. 16; Sp. p. 4458; Gaz. vol. 174; p. 750.
Taylor, Ernest W., assignor to The Brown Hoisting Machinery Company, Cleveland, Ohio. Hoisting and conveying machine. No. 1,035,265; Aug. 13; Gaz. vol. 181; p. 320.
Taylor, Eugene H., Hyde Park, Mass. Scoring-machine. No. 1,038,232; Sept. 10; Gaz. vol. 182; p. 386.
Taylor, Floyd F., Gadsden, Ala. Toy airship. No. 1,016,113; Jan. 30; Sp. p. 6635; Gaz. vol. 174; p. 1154.
Taylor, Frank L., Rushford, N. Y. Winding and measuring machine. No. 1,013,461; Jan. 2; Sp. p. 808; Gaz. vol. 174; p. 129.
Taylor, Frank W., Canute, Okla. Mail-box. No. 1,019,554; Mar. 5; Sp. p. 1236; Gaz. vol. 176; p. 185.
Taylor, Frederick D., Providence, R. I. Tide-motor. No. 1,047,591; Dec. 17; Gaz. vol. 185; p. 695.
Taylor, Frederick D., assignor to The Sigourney Tool Company, Hartford, Conn. Mechanism for driving drill-spindles. No. 1,015,359; Jan. 23; Sp. p. 5011; Gaz. vol. 174; p. 866.
Taylor, Frederick W., Philadelphia, Pa. Cutter-holding means. No. 1,015,409; Jan. 23; Sp. p. 5128; Gaz. vol. 174; p. 881.
Taylor, Frederick W., Philadelphia, Pa. Plant-growing apparatus. No. 1,033,290; July 23; Gaz. vol. 180; p. 962.
Taylor, George C., Helsby, England. Tread for tires, &c. No. 1,043,373; Nov. 5; Gaz. vol. 184; p. 117.
Taylor, George H., Helena, Mont. Electric switch. No. 1,023,691; Apr. 16; Sp. p. 4088; Gaz. vol. 177; p. 717.
Taylor, George H., assignor to The Kursheedt Manufacturing Company, New York, N. Y. Decorated fabric. No. 1,026,131; May 14; Sp. p. 2302; Gaz. vol. 178; p. 388.
Taylor, George N., East Providence, R. I., assignor to Universal Winding Company, Portland, Me. Unwinding device. No. 1,031,487; July 2; Gaz. vol. 180; p. 223.
Taylor, George T. (See Sturgeon, Benjamin F., assignor.)
Taylor, Harold D., Bishophill, York, England. Short-base range-finder. No. 1,013,849; Jan. 2; Sp. p. 1669; Gaz. vol. 174; p. 265.
Taylor, Henry, and S. L. Hutchins; said Hutchins assignor to W. Bragg, Peoria, Ill., and said Taylor assignor of one-half of his right to said Bragg. Coupling. No. 1,040,964; Oct. 8; Gaz. vol. 183; p. 467.
Taylor, Henry B. (See Dunn and Taylor.)
Taylor, Herbert B., assignor to Federal Signal Company, Albany, N. Y. System for electrically controlling and operating railway-traffic-controlling apparatus. No. 1,034,167; July 30; Gaz. vol. 180; p. 1284.
Taylor, Howard D., Reading, Pa. Steam-boiler superheater. No. 1,013,968; Jan. 9; Sp. p. 1968; Gaz. vol. 174; p. 334.
Taylor, Howard M., Baltimore, Md. Display mattress-rack. No. 1,020,331; Mar. 12; Sp. p. 2797; Gaz. vol. 176; p. 474.
Taylor Instrument Companies. (See Peake, Wilfrid S., assignor.)
Taylor Iron & Steel Company. (See Fish, Samuel W., assignor.)
Taylor Iron & Steel Company. (See Hardy, William J., assignor.)
Taylor, Izora. (See Taylor, James H. and I.)
Taylor, James C., Fayetteville, assignor of one-fourth to J. M. Cavendish and one-fourth to G. N. Shirey, Vanetta, W. Va. Fireplace. No. 1,044,708; Nov. 19; Gaz. vol. 184; p. 640.
Taylor, James H., Oak Park, Ill. Making pipe-bends. No. 1,023,227; Apr. 16; Sp. p. 3178; Gaz. vol. 177; p. 569.
Taylor, James H., Oak Park, Ill. Making nozzles. No. 1,023,228; Apr. 16; Sp. p. 3179; Gaz. vol. 177; p. 569.
Taylor, James H. and I., Philadelphia, Pa. Collar-supporter. No. 1,040,458; Oct. 8; Gaz. vol. 183; p. 294.
Taylor, James M., Omaha, assignor of one-third to W. A. Booth and one-third to C. H. Eveleth, Plainview, Nebr. Roundabout or carousel. No. 1,032,092; July 9; Gaz. vol. 180; p. 470.
Taylor, James S. (See Harrington, Edward C., assignor.)
Taylor, Job W., Montreal, Quebec, Canada. Wire-fence-stretching clamp. No. 1,023,229; Apr. 16; Sp. p. 3180; Gaz. vol. 177; p. 569.
Taylor, John, Colonie, N. Y. Truck. No. 1,048,375; Dec. 24; Gaz. vol. 185; p. 989.
Taylor, John, and D. H. Evans, Liverpool, England. Engine or like governor. No. 1,029,479; June 11; Sp. p. 3064; Gaz. vol. 179; p. 514.
Taylor, John C., Baltimore, Md. Rotary advertising attachment for theatrical curtains. No. 1,045,637; Nov. 26; Gaz. vol. 184; p. 995.
Taylor, John D., Edgewood Park, Pa. Brake for automobiles. No. 1,044,289; Nov. 12; Gaz. vol. 184; p. 465.
Taylor, John D., Edgewood Park, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-signal. No. 1,029,728; June 18; Sp. p. 3612; Gaz. vol. 179; p. 637.
Taylor, John D., Edgewood, assignor to The Union Switch & Signal Company, Swissvale, Pa. Electric signaling system. No. 1,036,372; Aug. 20; Gaz. vol. 181; p. 740.
Taylor, John D., Edgewood Park, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway signaling mechanism. No. 1,036,373; Aug. 20; Gaz. vol. 181; p. 740.
Taylor, John H., *et al.* (See Malinovszky, Andrew, assignor.)

Alphabetical list of patentees—Continued.

Taylor, John L., Chicago, Ill. Derrick. No. 1,032,251; July 9; Gaz. vol. 180; p. 525.
Taylor, John R. (See Cameron, Ewan, assignor.)
Taylor, Lloyd B., Chicago, Ill. Traveling-bag for bowlers. No. 1,024,536; Apr. 30; Sp. p. 6004; Gaz. vol. 177; p. 1068.
Taylor, Lyman B., Lynnfield, Mass. Game apparatus. No. 1,031,488; July 2; Gaz. vol. 180; p. 223.
Taylor, Marion, Soudan, Va. Lubricator. No. 1,032,570; July 16; Gaz. vol. 180; p. 677.
Taylor, Marion, Soudan, Va. Operating mechanism for car-doors. No. 1,041,901; Oct. 22; Gaz. vol. 183; p. 855.
Taylor, Millard E., Ashtabula, Ohio. Electrical temperature-recorder. No. 1,047,855; Dec. 17; Gaz. vol. 185; p. 787.
Taylor, Minnie L., *et al.*, executors. (See Leuthner, Frank X.)
Taylor, Minnie L., *et al.*, executors. (See Leuthner and Tickner.)
Taylor, Ralph G., Davenport, assignor to Bettendorf Axle Company, Bettendorf, Iowa. Operating mechanism for car-doors. No. 1,026,230; May 14; Sp. p. 2522; Gaz. vol. 178; p. 422.
Taylor, Ralph G., Davenport, assignor to Bettendorf Axle Company, Bettendorf, Iowa. Element used in car construction. No. 1,031,887; July 9; Gaz. vol. 180; p. 404.
Taylor, Ralph G., Davenport, assignor to Bettendorf Axle Company, Bettendorf, Iowa. Draft-rigging. No. 1,033,212; July 23; Gaz. vol. 180; p. 934.
Taylor, Richard L., Pine Bluff, Ark. Horseshoe. No. 1,024,426; Apr. 23; Sp. p. 5705; Gaz. vol. 177; p. 993.
Taylor, Richard S., and G. W. Woodruff, Gracemont, Okla. Sectional door for grain-cars. No. 1,013,237; Jan. 2; Sp. p. 325; Gaz. vol. 174; p. 52.
Taylor, Ridley F., Los Angeles, Cal. Concrete-pouring system. No. 1,039,213; Sept. 24; Gaz. vol. 182; p. 774.
Taylor, Russell E., New York, N. Y. Bottle-capping machine. No. 1,041,527; Oct. 15; Gaz. vol. 183; p. 691.
Taylor, S. R. (See Kaylor, William, assignor.)
Taylor, Samuel G., Jr. (See Coyne, Taylor, and Eskholme.)
Taylor, Samuel M. (See Watkins and Taylor.)
Taylor, Thomas G., St. Louis, Mo. Insect-trap. No. 1,031,827; July 9; Gaz. vol. 180; p. 382.
Taylor, Thomas H., assignor to The Charles Boldt Company, Cincinnati, Ohio. Cellular-board machine. No. 1,035,266; Aug. 13; Gaz. vol. 181; p. 320.
Taylor, Timothy E., Thompson, Conn. Nut-lock. No. 1,020,853; Mar. 19; Sp. p. 3949; Gaz. vol. 176; p. 688.
Taylor, Warren H., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Lock. No. 1,032,962; July 16; Gaz. vol. 180; p. 809.
Taylor, Warren H., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Tumbler for combination-locks. No. 1,032,963; July 16; Gaz. vol. 180; p. 809.
Taylor, Warren H., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Dial-lock. No. 1,042,838; Oct. 29; Gaz. vol. 183; p. 1202.
Taylor, William. (See Milne, Taylor, and Churchill.)
Taylor, William, Leicester, England. Workman's time-recorder. No. 1,017,344; Feb. 13; Sp. p. 2461; Gaz. vol. 175; p. 418.
Taylor, William, Leicester, R. E. Atkinson, Knighton, and D. M. Nesbit, Leicester, England. Apparatus for controlling temperature and humidity. No. 1,017,345; Feb. 13; Sp. p. 2466; Gaz. vol. 175; p. 419.
Taylor, William E., Eastport, Me., assignor to American Can Company, New York, N. Y. Packing sardines. No. 1,016,046; Jan. 30; Sp. p. 6497; Gaz. vol. 174; p. 1130.
Taylor, William F., Tacoma, Wash. Regenerative furnace. No. 1,040,459; Oct. 8; Gaz. vol. 183; p. 295.
Taylor, William F., Tacoma, Wash. Fume-arrester for regenerative matting-furnaces. No. 1,040,460; Oct. 8; Gaz. vol. 183; p. 295.
Taylor, William J., Canastota, N. Y. Wheelbarrow. No. 1,026,937; May 21; Sp. p. 4101; Gaz. vol. 178; p. 700.
Taylor, William L. (See Dinkins and Hays, assignors.)
Taylor, William O., assignor to Taylor and Company, Limerick Square, Pa. Tack weighing and packaging machine. No. 1,019,555; Mar. 5; Sp. p. 1238; Gaz. vol. 176; p. 185.
Taylor, William T., assignor of one-half to W. M. Heasley, Pittsburgh, Pa. Pawl-and-ratchet device. No. 1,044,290; Nov. 12; Gaz. vol. 184; p. 466.
Teal, Benjamin F., Glenside, Pa. Electrothermostatic temperature-controller. No. 1,045,638; Nov. 26; Gaz. vol. 184; p. 995.
Teal, Benjamin F., Glenside, Pa. Speed and time recorder. No. 1,046,346; Dec. 3; Gaz. vol. 185; p. 191.
Teal, George W. (See Davis, William H., assignor.)
Teany, Arthur C. (See Brasch and Teany.)
Teas, Daniel H. (See Greenleaf and Teas.)
Teas, Daniel H., New Haven, Conn., and G. T. Reiss, Hamilton, Ohio, assignors to Niles-Bement-Pond Company, Jersey City, N. J. Lathe-driver. No. 1,013,908; Jan. 9; Sp. p. 1828; Gaz. vol. 174; p. 313.
Tebbetts, Arthur E., East Rochester, N. H. Roof-bracket. No. 1,047,332; Dec. 17; Gaz. vol. 185; p. 605.
Tebbetts, Lewis B., 2d, assignor of one-half to Hoyt Metal Company, St. Louis, Mo. Composite metal. No. 1,029,152; June 11; Sp. p. 2352; Gaz. vol. 179; p. 401.
Techmer, Fred W. A., La Crosse, Wis. Plow. No. 1,048,005; Dec. 24; Gaz. vol. 185; p. 864.
Technical Development Company, The. (See Davis, John T., assignor.)
Tedder, Morgan C., Simms, Tex. Cotton-chopper. No. 1,013,969; Jan. 9; Sp. p. 1969; Gaz. vol. 174; p. 334.
Tedell, John, Moline, assignor to Rock Island Plow Company, Rock Island, Ill. Work-holder. No. 1,033,491; July 23; Gaz. vol. 180; p. 1027.
Teed, Ralph L., Augusta, Me. Potato-digger. No. 1,029,831; June 18; Sp. p. 3835; Gaz. vol. 179; p. 673.
Teel, George A., Anacortes, Wash. Trap. No. 1,015,916; Jan. 30; Sp. p. 6213; Gaz. vol. 174; p. 1083.
Teeter, Alvie P., Berne, Ind. Revolving harrow. No. 1,020,854; Mar. 19; Sp. p. 3949; Gaz. vol. 176; p. 688.
Teeter, Ellar G. (See Teeter, Samuel M. and E. G.)
Teeter, Emery, Hamilton, Ontario, Canada. Gearing. No. 1,045,215; Nov. 26; Gaz. vol. 184; p. 845.
Teeter, Samuel M. and E. G., St. Louis, Mo. Combined fender and apron. No. 1,022,278; Apr. 2; Sp. p. 1099; Gaz. vol. 177; p. 176.
Teeters, Charles E., Canal Dover, Ohio. Thermostatic regulator. No. 1,016,795; Feb. 6; Sp. p. 1259; Gaz. vol. 175; p. 194.
Teets, Amzie A., Brooklyn, N. Y. Automatic hanger. No. 1,018,279; Feb. 20; Sp. p. 4521; Gaz. vol. 175; p. 777.
Teets, Earl A., and H. V. Varner, Clarksburg, W. Va. Antiseptic instrument-case. No. 1,016,529; Feb. 6; Sp. p. 686; Gaz. vol. 175; p. 102.
Teich, Ernest L. (See Arens and Teich.)
Teich, Ernest L., assignor to The American Hardware Corporation, New Britain, Conn. Adjusting mechanism for door-bolts. No. 1,033,057; July 16; Gaz. vol. 180; p. 843.
Teichmann, Otto, Stuttgart-Cannstatt, Germany. Dough-dividing machine. No. 1,019,556; Mar. 5; Sp. p. 1249; Gaz. vol. 176; p. 186.
Teisler, Emil, assignor of one-half to A. Humann, Dohna, Germany. Making sodium-aluminum fluorid. No. 1,015,220; Jan. 16; Sp. p. 4680; Gaz. vol. 174; p. 790.
Telechronometer Company. (See Babcock, Garrison, assignor.)
Telepost Company. (See Arnold, George A., assignor.)
Telfer, John C., Spokane, Wash. Aeroplane. No. 1,030,942; July 2; Gaz. vol. 180; p. 31.
Tellander, Axel W., St. Paul, Minn. Car-brake-setting lever. No. 1,022,445; Apr. 9; Sp. p. 1461; Gaz. vol. 177; p. 262.
Teller, James R., Stockton, Cal. Platform-adjuster. No. 1,016,047; Jan. 30; Sp. p. 6497; Gaz. vol. 174; p. 1130.
Teller, John C., Minneapolis, Minn. Furnace. No. 1,044,946; Nov. 19; Gaz. vol. 184; p. 723.
Telling, John E. (See Tilt and Telling.)
Temco Manufacturing Company, The. (See Meier and Sullivan, assignors.)
Temco Manufacturing Company, The. (See Sullivan, William L., assignor.)
Temple, David L., Lewistown, Pa., assignor, by mesne assignments, to Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Telephone system. No. 1,028,635; June 4; Sp. p. 1231; Gaz. vol. 179; p. 190.
Temple, Elinor, London, England. Corset. No. 1,044,947; Nov. 19; Gaz. vol. 184; p. 723.
Temple, Frederic L., Cedar Grove, N. J., assignor to The Bryant Electric Company, Bridgeport, Conn. Electric lighting. No. 1,044,291; Nov. 12; Gaz. vol. 184; p. 466.
Temple, Herbert. (See Burnet and Temple.)
Temple, John. (See Ramsey, Clearwater, and Temple.)
Temple, John J., Kalamazoo, Mich. Plaiting device. No. 1,022,802; Apr. 9; Sp. p. 2251; Gaz. vol. 177; p. 385.
Temple, Louie C., Denver, Colo. Adjusting device. No. 1,036,026; Aug. 20; Gaz. vol. 181; p. 616.
Temple, Mabel C., Hopkinton Springs, Mass. Thread protector and cutter. No. 1,029,518; June 11; Sp. p. 3135; Gaz. vol. 179; p. 526.
Temple, Robert M., Philadelphia, Pa. Mixer. No. 1,036,374; Aug. 20; Gaz. vol. 181; p. 741.
Temple, Willard M., Mason City, Iowa. Apparatus for printing in colors. No. 1,041,193; Oct. 15; Gaz. vol. 183; p. 580.
Temple, Winfield S., Sidney, Ill. Automobile-tire. No. 1,020,464; Mar. 19; Sp. p. 3078; Gaz. vol. 176; p. 557.
Templeman, Robert L., Ruby, Va. Plant-puller. No. 1,045,216; Nov. 26; Gaz. vol. 184; p. 845.
Templeton, Walter B., Chicago, Ill. Lifting-jack. No. 1,025,218; May 7; Sp. p. 238; Gaz. vol. 178; p. 40.
Templeton, William G., Colorado Springs, Colo. Window-shade fixture. No. 1,031,888; July 9; Gaz. vol. 180; p. 404.
Templeton, William G., Colorado Springs, Colo. Weighing-scale. No. 1,032,439; July 16; Gaz. vol. 180; p. 633.
Templin, Joseph H. (See Wiedemann and Templin.)

Alphabetical list of patentees—Continued.

Ten Eyck, John C., Yonkers, N. Y. Automatic aeroplane-equilibrator. No. 1,025,548; May 7; Sp. p. 993; Gaz. vol. 178; p. 154.
Tendler, Benard, Schulenburg, Tex. Needle for sound-reproducing machines. No. 1,022,515; Apr. 9; Sp. p. 1599; Gaz. vol. 177; p. 286.
Tenney, Fred H. (See Van Rensselaer and Tenney.)
Tenow, Adolf J., and C. E. Andersson, assignors to J. & C. G. Bolinders Mekaniska Verktads Aktiebolag, Stockholm, Sweden. Means for placing timber in position for sawing. No. 1,043,169; Nov. 5; Gaz. vol. 184; p. 44.
Teppert, Joseph, Buffalo, N. Y. Brace for vehicle-tops. No. 1,036,164; Aug. 20; Gaz. vol. 181; p. 667.
Teraoka, Toyoharu, Los Angeles, Cal. Adding-machine. No. 1,036,375; Aug. 20; Gaz. vol. 181; p. 741.
Terbell, J. B. (See Thompson, James S., assignor.)
Terhune, Howard, assignor to Chambersburg Engineering Company, Chambersburg, Pa. Drop-hammer-frame-adjusting means. No. 1,044,292; Nov. 12; Gaz. vol. 184; p. 466.
Termaat & Monahan Co. (See Monahan, Louis J., assignor.)
Terpening, Elmer A., Mokena, Ill. Tire-alarm. No. 1,019,557; Mar. 5; Sp. p. 1250; Gaz. vol. 176; p. 186.
Terrel, David, Degraff, Ohio. Railway-track construction. No. 1,046,347; Dec. 3; Gaz. vol. 185; p. 191.
Terrell, Jasper C., Magnolia, Ark. Plow. No. 1,016,796; Feb. 6; Sp. p. 1261; Gaz. vol. 175; p. 194.
Terrian, Otto, Manistique, Mich. Nut-lock. No. 1,041,194; Oct. 15; Gaz. vol. 183; p. 580.
Terrill, Franklin E., assignor to The Brown Hoisting Machinery Company, Cleveland, Ohio. Jack-beam. No. 1,035,267; Aug. 13; Gaz. vol. 181; p. 321.
Terrill, Franklin E., Lakewood, and J. P. Dowd, Cleveland, Ohio. Cigar-banding machine. No. 1,042,621; Oct. 29; Gaz. vol. 183; p. 1128.
Terrill, Ira N., Oklahoma, Okla. Well. No. 1,031,596; July 2; Gaz. vol. 180; p. 259.
Terry, Carleton L., *et al.* (See Bergens, William J., assignor.)
Terry, Charles A., New York, N. Y., assignor to The Bryant Electric Company, Bridgeport, Conn. Shade-holder. No. 1,042,839; Oct. 29; Gaz. vol. 183; p. 1202.
Terry, Claude L., Elyria, Ohio. Ignition for internal-combustion engines. No. 1,025,844; May 7; Sp. p. 1607; Gaz. vol. 178; p. 254.
Terry, Coleman A., deceased, New York, N. Y.; E. J. Terry, administratrix, assignor, by mesne assignments, to McKiernan-Terry Drill Company. Core-drilling machinery. No. 1,025,333; May 7; Sp. p. 501; Gaz. vol. 178; p. 78.
Terry, Emma J., administratrix. (See Terry, Coleman A.)
Terry, Eugene, *et al.* (See Gray, Edward A., assignor.)
Terry, George S. (See Cook, William, assignor.)
Terry, Lester E. (See Helmich, Daniel A., assignor.)
Terry Steam Turbine Company, The. (See London, William J. A., assignor.)
Terteling, Theodore B., assignor to Lion Machine Company, Detroit, Mich. Vending-machine. No. 1,024,870; Apr. 30; Sp. p. 6740; Gaz. vol. 177; p. 1186.
Terzian, Dickran G., Washington, D. C. Aeroplane. No. 1,035,660; Aug. 13; Gaz. vol. 181; p. 456.
Terziev, George N. (See Jones, Morton, and Terziev.)
Tesch, August W., Chicago, Ill. Self-feeding sprinkler for clothes. No. 1,038,025; Sept. 10; Gaz. vol. 182; p. 319.
Teschemacher, Werner, Werden-on-the-Rhur, Germany. Packing-ring. No. 1,024,294; Apr. 23; Sp. p. 5432; Gaz. vol. 177; p. 951.
Tesreau, Robert E., L. F. Sundman, and C. P. Hill, Doe Run, Mo. Rail-joint. No. 1,014,101; Jan. 9; Sp. p. 2267; Gaz. vol. 174; p. 377.
Tesseyman, John E., Columbus, Ohio. Tank-car. No. 1,043,550; Nov. 5; Gaz. vol. 184; p. 181.
Tesseyman, John E., assignor to The Ralston Steel Car Company, Columbus, Ohio. Beam. No. 1,017,927; Feb. 20; Sp. p. 3778; Gaz. vol. 175; p. 656.
Tesseyman, John E., and R. R. Weaver, assignors to The Ralston Steel Car Company, Columbus, Ohio. Drop-door mechanism for cars. No. 1,022,516; Apr. 9; Sp. p. 1600; Gaz. vol. 177; p. 286.
Tessmer, Earl, Seattle, Wash., assignor, by mesne assignments, to F. M. Gordon, Detroit, Mich. Razor-sharpener. No. 1,018,382; Feb. 20; Sp. p. 4742; Gaz. vol. 175; p. 812.
Tessmer, Earl, Seattle, Wash., assignor, by mesne assignments, to F. M. Gordon, Detroit, Mich. Razor-blade-sharpening machine. No. 1,022,383; Apr. 2; Sp. p. 1309; Gaz. vol. 177; p. 212.
Tessmer, Herman G., assignor of three-tenths to O. D. Smith and three-tenths to C. G. Weathers, Pittsburg, Kans. Safety device for elevators. No. 1,039,073; Sept. 17; Gaz. vol. 182; p. 706.
Tessmer, Herman G., assignor of three-tenths to O. D. Smith and three-tenths to C. G. Weathers, Pittsburg, Kans. Safety device for elevators. No. 1,042,172; Oct. 22; Gaz. vol. 183; p. 945.
Testa, Giuseppe, New York, N. Y. Umbrella-handle. No. 1,036,376; Aug. 20; Gaz. vol. 181; p. 742.
Tetlow, Lewis J., West Springfield, Mass. Protective covering for pneumatic-tired wheels. No. 1,030,348; June 25; Sp. p. 4991; Gaz. vol. 179; p. 889.
Tetlow, Lewis J., West Springfield, Mass. Lubricating-wheel. No. 1,043,741; Nov. 5; Gaz. vol. 184; p. 244.
Tetlow, Lewis J., West Springfield, Mass. Trolley-wheel. No. 1,044,293; Nov. 12; Gaz. vol. 184; p. 467.
Tetlow, Lewis J., West Springfield, assignor to Universal Trolley Wheel Company, Northampton, Mass. Trolley. No. 1,045,758; Nov. 26; Gaz. vol. 184; p. 1036.
Tetlow, Lewis J., West Springfield, assignor to Universal Trolley Wheel Company, Northampton, Mass. Trolley. No. 1,046,235; Dec. 3; Gaz. vol. 185; p. 152.
Tetrault, Edward O., Hartford, Conn. Package-reacher. No. 1,014,785; Jan. 16; Sp. p. 3780; Gaz. vol. 174; p. 642.
Teufel, Wilhelm J., Stuttgart, Germany. Elastic material. No. 1,035,107; Aug. 6; Gaz. vol. 181; p. 235.
Tevander, Swan. (See Rudolphi and Tevander.)
Teves, Frederick E., Glen Cove, N. Y. Can opener and sealer. No. 1,027,932; May 28; Sp. p. 6247; Gaz. vol. 178; p. 1073.
Tewksbury, Charles B. (See Stevens, Arthur L., assignor.)
Tewksbury, Charles B., Boston, Mass. Distributing apparatus. No. 1,014,786; Jan. 16; Sp. p. 3781; Gaz. vol. 174; p. 642.
Tewksbury, Russell B., Cleveland, Ohio. Die-stock. No. 1,048,108; Dec. 24; Gaz. vol. 185; p. 899.
Tewksbury, Russell B., assignor to The Oster Manufacturing Company, Cleveland, Ohio. Die-stock. No. 1,049,007; Dec. 31; Gaz. vol. 185; p. 1246.
Texas Portland Cement Company. (See Griffiths, Leonard L., assignor.)
Textile Machinery Company. (See Coulston, Harry, assignor.)
Thacher, Peter, Chicago, Ill. Bearing. No. 1,045,908; Dec. 3; Gaz. vol. 185; p. 39.
Thaison, John, Riogrande, Tex. Baby-basket. No. 1,038,233; Sept. 10; Gaz. vol. 182; p. 386.
Thale, Harry H., Lewiston, Mo. Bee-culture apparatus. No. 1,046,507; Dec. 10; Gaz. vol. 185; p. 286.
Thalheimer, Charles A. (See Thalheimer, Nicholas C., assignor.)
Thalheimer, Nicholas C., assignor of one-third to C. A. Thalheimer, Baltimore, Md. Bolt-retainer. No. 1,034,533; Aug. 6; Gaz. vol. 181; p. 44.
Tharpe, James E. (See Councill, Tharpe, and Dale.)
Thatcher, Charles J., Upper Nyack, N. Y. Exhausting vessels. No. 1,028,636; June 4; Sp. p. 1236; Gaz. vol. 179; p. 190.
Thatford, Joseph G., Sharon Hill, Pa. Manufacturing plasterers' trowels. No. 1,015,654; Jan. 23; Sp. p. 5658; Gaz. vol. 174; p. 967.
Thayer, D. N. (See Alexander, Jesse, assignor.)
Thayer, Edward D., Worcester, Mass., assignor, by mesne assignments, to Crompton & Knowles Loom Works. Filling-detector for looms. No. 1,018,218; Feb. 20; Sp. p. 4400; Gaz. vol. 175; p. 756.
Thayer, Everett E., Jackson, Mich. Kite. No. 1,021,278; Mar. 26; Sp. p. 4829; Gaz. vol. 176; p. 881.
Thayer, Garrison C., Bartlesville, Okla. Reinforced axle. No. 1,019,998; Mar. 12; Sp. p. 2119; Gaz. vol. 176; p. 365.
Thayer, Joseph E. (See Cady and Thayer.)
Thayer, Joseph E., East Bridgewater, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Bobbin-holding device for lock-stitch sewing-machines. No. 1,024,708; Apr. 30; Sp. p. 6400; Gaz. vol. 177; p. 1127.
Thayer, Joseph E., West Bridgewater, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Channeling-machine. No. 1,035,268; Aug. 13; Gaz. vol. 181; p. 321.
Thayer, Russell, *et al.* (See Spangler, Walter J., assignor.)
Thebaud, John E. (See Kern and Thebaud.)
Thebaud, John E., assignor of one-third to J. Franey and one-third to I. E. Mighton, Buffalo, N. Y. Variable-speed-transmission device. No. 1,041,373; Oct. 15; Gaz. vol. 183; p. 641.
Thebiay, Edward M., Eagle Grove, and J. W. Pope, Hillsboro, Iowa. Gate. No. 1,046,405; Dec. 3; Gaz. vol. 185; p. 212.
Theerman, Albert, Dike, Iowa. Steering mechanism. No. 1,025,432; May 7; Sp. p. 708; Gaz. vol. 178; p. 113.
Theile, George I. (See Holman and Theile.)
Theillier, François, Le Grand Priel, France. Agricultural automobile traction-engine. No. 1,037,080; Aug. 27; Gaz. vol. 181; p. 1010.
Theis, Henry W., Milwaukee, Wis. Ball-cock. No. 1,047,333; Dec. 17; Gaz. vol. 185; p. 606.
Theis, Louis F. (See Traver and Theis.)
Theisen, Bruno H., and G. S. Keller, Minneapolis, Minn. Leather-stitching machine. No. 1,024,162; Apr. 23; Sp. p. 5150; Gaz. vol. 177; p. 904.
Theisen, Hans E., Munich, Germany. Apparatus for cleaning, cooling, and mixing gases. No. 1,039,677; Sept. 24; Gaz. vol. 182; p. 937.
Theisen, Hans E., Munich, Germany. Apparatus for cleaning, cooling, and washing gases. No. 1,042,840; Oct. 29; Gaz. vol. 183; p. 1202.
Theisen, Hans E., Munich, Germany. Gas-washing apparatus. No. 1,049,317; Dec. 31; Gaz. vol. 185; p. 1352.

Alphabetical list of patentees—Continued.

Theisen, Joseph, Grand Rapids, Mich. Vacuum-cleaner. No. 1,042,055; Oct. 22; Gaz. vol. 183; p. 906.
Thelen, Arnold J., St. Johns, Mich. Cleaning attachment for currycombs. No. 1,020,855; Mar. 19; Sp. p. 3951; Gaz. vol. 176; p. 688.
Thene, Gustav F., Gowanda, N. Y. Root cutter and slicer. No. 1,023,973; Apr. 23; Sp. p. 4728; Gaz. vol. 177; p. 839.
Thenis, Victor, Point Marion, Pa. Glass-furnace. No. 1,027,933; May 28; Sp. p. 6248; Gaz. vol. 178; p. 1073.
Thenser, John, Caribou, Me. Car-brake. No. 1,035,918; Aug. 20; Gaz. vol. 181; p. 581.
Theo. A. Kochs Co. (See Wertz and Pomernacki, assignors.)
Theo. Smith Manufacturing Company. (See Smith, Theodore, assignor.)
Therien, George W., and O. R. Zoll, St. Anne, Ill. Combined display, measuring, and cutting device. No. 1,040,054; Oct. 1; Gaz. vol. 183; p. 128.
Thermo Electric Company, The. (See Shoenberg, Milton H., assignor.) (Reissue.)
Thermos-Aktiengesellschaft. (See Hartwig, Robert, assignor.)
Theumann, Max. (See Koetschet and Theumann.)
Theus, Paul J., Ocala, Fla. Peanut-picker. No. 1,022,342; Apr. 2; Sp. p. 1232; Gaz. vol. 177; p. 197.
Thew Automatic Shovel Company, The. (See Harris, Hollis H., assignor.)
Thiberge, Harry A., New Orleans, La. Trap. No. 1,025,845; May 7; Sp. p. 1609; Gaz. vol. 178; p. 255.
Thiel, Martin A., Wilkinsburg, Pa. Ignition apparatus for combustion-engines. No. 1,045,639; Nov. 26; Gaz. vol. 184; p. 995.
Thiele, Albrecht. (See Dohrn and Thiele.)
Thiele, Albrecht, assignor to Chemische Fabrik auf Actien (vorm. E. Schering), Berlin, Germany. Ethyl ester of 6 - methyl - 2 - phenylquinolin - 4 - carboxylic acid. No. 1,045,759; Nov. 26; Gaz. vol. 184; p. 1037.
Thiell, John S., St. Louis, Mo. Vehicle - spring. No. 1,016,905; Feb. 6; Sp. p. 1489; Gaz. vol. 175; p. 230.
Thiem, Charles, Sandusky, Ohio. Device for binding paper sheets. No. 1,026,006; May 14; Sp. p. 1997; Gaz. vol. 178; p. 344.
Thiem, Louis, Toledo, Ohio. Catch-strainer for downspouts. No. 1,044,601; Nov. 19; Gaz. vol. 184; p. 604.
Thieman, Henry J. (See Gathright and Thieman.)
Thieme, Carl, Zeitz, Germany. Fly-catcher. No. 1,031,889; July 9; Gaz. vol. 180; p. 404.
Thieme, Frederick J., Fort Wayne, Ind. Winding-machine for yarn or thread. No. 1,028,302; June 4; Sp. p. 519; Gaz. vol. 179; p. 76.
Thieme, Otto, assignor to Moon-Hopkins Billing Machine Company, St. Louis, Mo. Tripping-block for typewriting machines. No. 1,024,295; Apr. 23; Sp. p. 5433; Gaz. vol. 177; p. 952.
Thieme, Otto, assignor to Moon-Hopkins Billing Machine Company, St. Louis, Mo. Tabulating mechanism for type-writing machines. No. 1,027,225; May 21; Sp. p. 4743; Gaz. vol. 178; p. 797.
Thieme, Otto, assignor to Moon-Hopkins Billing Machine Company, St. Louis, Mo. Platen-rotating means for type-writing machines. No. 1,028,505; June 4; Sp. p. 974; Gaz. vol. 179; p. 147.
Thieme, Otto, assignor to Moon-Hopkins Billing Machine Company, St. Louis, Mo. Roll-support. No. 1,028,506; June 4; Sp. p. 975; Gaz. vol. 179; p. 147.
Thieme, Otto, assignor to Moon-Hopkins Billing Machine Company, St. Louis, Mo. Tally-roll attachment for type-writing machines. No. 1,029,153; June 11; Sp. p. 2353; Gaz. vol. 179; p. 401.
Thieme, Otto, assignor to Moon-Hopkins Billing Machine Company, St. Louis, Mo. Adjustable paper-guide finger for type-writing machines. No. 1,029,832; June 18; Sp. p. 3836; Gaz. vol. 179; p. 673.
Thieme, Otto, assignor to Moon-Hopkins Billing Machine Company, St. Louis, Mo. Motor-key lock for calculating-machines. No. 1,029,957; June 18; Sp. p. 4129; Gaz. vol. 179; p. 715.
Thieme, Otto, assignor to Moon-Hopkins Billing Machine Company, St. Louis, Mo. Motor-drive for calculating-machines. No. 1,047,856; Dec. 17; Gaz. vol. 185; p. 787.
Thieringer, Emma P., New York, N. Y. Nipple-shield. No. 1,032,518; July 16; Gaz. vol. 180; p. 660.
Thierry, Charles V., Paris, France. Metallurgy of zinc. No. 1,030,349; June 25; Sp. p. 4992; Gaz. vol. 179; p. 890.
Thierry, Charles V., Paris, France. Metallurgy of zinc. No. 1,030,350; June 25; Sp. p. 4995; Gaz. vol. 179; p. 890.
Thierry, Charles V., Paris, France. Metallurgy of zinc. No. 1,030,351; June 25; Sp. p. 4999; Gaz. vol. 179; p. 891.
Thiesen, Rudolph J., and C. T. King, Jr., Atlanta, Ga. Antiskidding device. No. 1,048,376; Dec. 24; Gaz. vol. 185; p. 990.
Thiesing, Henry G., Lynn, assignor of one-half to J. M. Hightshoe, Indianapolis, Ind. Grinding-mill. No. 1,046,678; Dec. 10; Gaz. vol. 185; p. 346.
Thiess, Karl. (See Schmidt and Thiess.)
Thir, John, Dexter, N. Y. Curtain-pole. No. 1,022,210; Apr. 2; Sp. p. 970; Gaz. vol. 177; p. 155.
Third Hand Patents Limited. (See Hampson, John, assignor.)
Thiry, Edward, and J. W. Schermerhorn, Pasadena, Cal.; said Schermerhorn assignor to said Thiry. Flush device for closets. No. 1,015,719; Jan. 23; Sp. p. 5797; Gaz. vol. 174; p. 988.
Thiry, Oden F., *et al.* (See Bremer, Russell H., assignor.)
Thissen, Jacob, Kane, Pa. Resilient tire. No. 1,024,753; Apr. 30; Sp. p. 6496; Gaz. vol. 177; p. 1143.
Thistle Manufacturing Company, The. (See Christensen and Vondrasek, assignors.)
Thobe, John A. (See Exterkamp, George J., assignor.)
Thode, Gustav A., Grover, Colo. Plow. No. 1,029,833; June 18; Sp. p. 3837; Gaz. vol. 179; p. 673.
Thody, Frederick J., Grand Forks, N. D. Stovepipe-drum. No. 1,032,964; July 16; Gaz. vol. 180; p. 810.
Thoeming, Benjamin H. (See Thoeming and Anderson.)
Thoeming, Louis C. and B. H., and E. A. Anderson, Newcastle, Wyo. Dirigible headlight. No. 1,041,902; Oct. 22; Gaz. vol. 183; p. 856.
Thom, Peter R., Appleton, assignor of one-half to Kimberly-Clark Company, Neenah, Wis. Paper-machine. No. 1,018,850; Feb. 27; Sp. p. 5810; Gaz. vol. 175; p. 1004.
Thoma, Andrew, Cambridge, Mass., assignor to North American Chemical Company, New York, N. Y. Shoe-bottom filler and making the same. No. 1,032,312; July 9; Gaz. vol. 180; p. 546.
Thoma, Andrew, Cambridge, Mass., assignor to North American Chemical Company, New York, N. Y. Filling the bottom cavities of shoes. No. 1,036,931; Aug. 27; Gaz. vol. 181; p. 959.
Thoma, Charles, Jr., *et al.* (See Mann, Harry, assignor.)
Thomä, Franz R., Leipzig, and O. Pannicke, Delitsch, Germany. Polishing cement tiles. No. 1,034,324; July 30; Gaz. vol. 180; p. 1338.
Thoma, Walter, *et al.* (See Mann, Harry, assignor.)
Thoma, William H., Pittsburgh, Pa. Strainer. No. 1,046,679; Dec. 10; Gaz. vol. 185; p. 346.
Thomas, Abel. (See Snyder and Thomas.)
Thomas, Albert G., Pittsburgh, Pa. Needle-valves for gas-burners. No. 1,027,934; May 28; Sp. p. 6250; Gaz. vol. 178; p. 1073.
Thomas, Almer B., Hardwick, Vt. Shield for automobiles. No. 1,034,534; Aug. 6; Gaz. vol. 181; p. 44.
Thomas, Amos W., Rochester, N. Y. Umbrella. No. 1,031,974; July 9; Gaz. vol. 180; p. 432.
Thomas, Arthur A., Ellinwood, Kans. Holder for sharpening gravers or other tools. No. 1,046,508; Dec. 10; Gaz. vol. 185; p. 286.
Thomas, Avila, assignor to Thomas Steel Reinforcement Co., Detroit, Mich. Reinforcement for concrete roadways. No. 1,017,118; Feb. 13; Sp. p. 1981; Gaz. vol. 175; p. 341.
Thomas, Avila, assignor to Thomas Steel Reinforcement Co., Detroit, Mich. Expansion-joint for concrete roadways. No. 1,017,346; Feb. 13; Sp. p. 2471; Gaz. vol. 175; p. 419.
Thomas, Carl C., Madison, Wis. Spring-wheel. No. 1,025,433; May 7; Sp. p. 708; Gaz. vol. 178; p. 113.
Thomas, Carl C., Madison, Wis. Steam and gas meter and calorimeter. No. 1,043,983; Nov. 12; Gaz. vol. 184; p. 361.
Thomas, Carlyle W., Bridgeport, Conn., assignor to The Singer Manufacturing Company. Sewing and trimming machine. No. 1,015,917; Jan. 30; Sp. p. 6214; Gaz. vol. 174; p. 1084.
Thomas, Charles. (See Avery, Nicholas F., assignor.)
Thomas, Charles B., Watts, S. C. Planter. No. 1,031,299; July 2; Gaz. vol. 180; p. 159.
Thomas Cusack Company. (See Smith, Charles W., assignor.)
Thomas, David A., Denver, Colo. Combined cigar tip-cutter and lighter. No. 1,021,080; Mar. 26; Sp. p. 4394; Gaz. vol. 176; p. 815.
Thomas, David L. (See Mechling, Thomas, and Kuhns.)
Thomas, Edward G., Brooklyn, N. Y. Synchrorotor. No. 1,045,909; Dec. 3; Gaz. vol. 185; p. 39.
Thomas, Edward W., Stockton, assignor of one-half to C. W. Yolland, Berkeley, Cal. Oil-burner. No. 1,045,457; Nov. 26; Gaz. vol. 184; p. 930.
Thomas, Elsie L. P., Philadelphia, Pa. Treating fruit. No. 1,047,592; Dec. 17; Gaz. vol. 185; p. 695.
Thomas, F. G. (See Bradshaw, Frank F., assignor.)
Thomas, Frank, San Francisco, Cal. Igniter. No. 1,046,898; Dec. 10; Gaz. vol. 185; p. 421.
Thomas, Frank C. (See Spencer and Thomas.) (Reissue.)
Thomas, Frank M., Muncie, Ind. Tree-sprayer. No. 1,045,217; Nov. 26; Gaz. vol. 184; p. 846.
Thomas, Frank M., Troy, assignor, by mesne assignments, to J. Liddle, L. Haussler, G. F. Rising, and W. I. Shaw, Hoosick Falls, N. Y. Carbonator. No. 1,030,851; June 25; Sp. p. 6441; Gaz. vol. 179; p. 1073.
Thomas, Frederick, Tooting, London, England. Double-jaw friction-grip clamp. No. 1,037,560; Sept. 3; Gaz. vol. 182; p. 130.

Alphabetical list of patentees—Continued.

Thomas, George B., assignor to The Bryant Electric Company, Bridgeport, Conn. Shade-holder. No. 1,048,377; Dec. 24; Gaz. vol. 185; p. 990.
Thomas, George B., and E. Anderson, assignors to The Perkins Electric Switch Manufacturing Company, Bridgeport, Conn. Push-switch. No. 1,046,899; Dec. 10; Gaz. vol. 185; p. 422.
Thomas, George C., Liscard, England. Apparatus for taking kinematographic (or other) photographs and projecting same. No. 1,040,591; Oct. 8; Gaz. vol. 183; p. 343.
Thomas, George J., Watertown, assignor of twenty-four one-hundredths to himself, fifty-one one-hundredths to T. E. Eustis, and twenty-five one-hundredths to F. T. Cazmay, Newton, Mass. Nipple-holder. No. 1,014,920; Jan. 16; Sp. p. 4083; Gaz. vol. 174; p. 690.
Thomas, George W., assignor to International Blank Book Company, Red Oak, Iowa. Loose-leaf record-book. No. 1,033,356; July 23; Gaz. vol. 180; p. 983.
Thomas Gin Compress Company. (See Phelps, Frank, assignor.)
Thomas, Gustav, Los Angeles, Cal. Grading-machine. No. 1,033,291; July 23; Gaz. vol. 180; p. 962.
Thomas, Harold A., Terre Haute, Ind. Computing device. No. 1,040,592; Oct. 8; Gaz. vol. 183; p. 343.
Thomas, Harold M., assignor, by mesne assignments, to Hale and Kilburn Company, Philadelphia, Pa. Window. No. 1,017,235; Feb. 13; Sp. p. 2246; Gaz. vol. 175; p. 382.
Thomas, Harry P., Newlyn, W. Va. Device for applying lubricant or filler to cables. No. 1,049,170; Dec. 31; Gaz. vol. 185; p. 1300.
Thomas, Harry V. (See Fowler and Thomas.)
Thomas, Harvey S., Fort Thomas, Ky. Stilt. No. 1,013,828; Jan. 2; Sp. p. 1609; Gaz. vol. 174; p. 257.
Thomas, Henry, East Ham, London, England, assignor to U. S. Slicing Machine Company, Chicago, Ill. Meat-holder. No. 1,026,721; May 21; Sp. p. 3583; Gaz. vol. 178; p. 624.
Thomas, Hiram A., and C. H. Bodie, Oakland, Cal. Flushing-tank. No. 1,035,269; Aug. 13; Gaz. vol. 181; p. 322.
Thomas, James A., Allisonia, Va. Clamp for wire-stretchers. No. 1,039,214; Sept. 24; Gaz. vol. 182; p. 775.
Thomas, James E., Germiston, Transvaal. Feeding means for tube-mills and like grinding apparatus. No. 1,045,342; Nov. 26; Gaz. vol. 184; p. 889.
Thomas, James F., Montreal, Quebec, Canada. Motor. No. 1,021,562; Mar. 26; Sp. p. 5445; Gaz. vol. 176; p. 980.
Thomas, Jesse B., Boston, Mass. Fire-extinguisher. No. 1,019,859; Mar. 12; Sp. p. 1821; Gaz. vol. 176; p. 319.
Thomas, Jesse B., Boston, Mass. Fire-extinguisher. No. 1,022,211; Apr. 2; Sp. p. 972; Gaz. vol. 177; p. 156.
Thomas, Jesse B., Boston, Mass. Fire-extinguisher. No. 1,038,026; Sept. 10; Gaz. vol. 182; p. 319.
Thomas, Jesse R., Carthage, Mo., assignor to B. T. Steiner, Canton, Ohio. Supporting device for vehicle-tops. No. 1,044,427; Nov. 12; Gaz. vol. 184; p. 512.
Thomas, John, *et al.* (See Kwiatkowski, Jacob, assignor.)
Thomas, John, Kenilworth, England. Smoke-consuming and fuel-economizing apparatus for furnaces and the like. No. 1,030,142; June 18; Sp. p. 4504; Gaz. vol. 179; p. 778.
Thomas, John, West Ealing, assignor to The Lambeth Brass & Iron Company, Ltd., London, England. Mechanical lubricator. No. 1,048,914; Dec. 31; Gaz. vol. 185; p. 1213.
Thomas, John A., Salt Lake City, Utah. Folding umbrella. No. 1,034,846; Aug. 6; Gaz. vol. 181; p. 150.
Thomas, John W., *et al.* (See Goetzinger, Charles P., assignor.)
Thomas, John W., assignor of one-third to J. R. Hamill, one-sixth to F. W. Green, and one-fourth to C. G. Hornor, Guthrie, Okla. Spring-frog and guard-rail. No. 1,048,109; Dec. 24; Gaz. vol. 185; p. 900.
Thomas, Kate, *et al.* (See Pierce, John G., assignor.)
Thomas, L. A. (See Thomas, Richard H., assignor.)
Thomas, Leander H., Bloomington, Ill. Ventilating window-lock. No. 1,038,461; Sept. 10; Gaz. vol. 182; p. 467.
Thomas, Lemuel A., and A. B. Bailey, Monroe, Ind. Oil-burner. No. 1,015,410; Jan. 23; Sp. p. 5130; Gaz. vol. 174; p. 881.
Thomas, Lewis, and J. U. Jeffries, Philadelphia, Pa. Semi-automatic check-valve. No. 1,031,300; July 2; Gaz. vol. 180; p. 159.
Thomas, Martin E., assignor of three-fourths to W. W. Hester and B. P. Belk, Bowling Green, Ky. Rock-drill. No. 1,026,886; May 21; Sp. p. 3958; Gaz. vol. 178; p. 682.
Thomas, Martin E., assignor of one-half to W. F. Toops & Son, Bowling Green, and one-fourth to J. W. Peryman, South Union, Ky. Mowing-machine. No. 1,030,689; June 25; Sp. p. 5924; Gaz. vol. 179; p. 1012.
Thomas, Percy H., Montclair, N. J., assignor to Cooper Hewitt Electric Company, New York, N. Y. Seal for vapor devices. No. 1,018,642; Feb. 27; Sp. p. 5382; Gaz. vol. 175; p. 932.
Thomas, Percy H., East Orange, N. J., assignor to Cooper Hewitt Electric Company, New York, N. Y. Starter for vapor apparatus. No. 1,031,890; July 9; Gaz. vol. 180; p. 405.
Thomas, Percy H., East Orange, N. J., assignor to Cooper Hewitt Electric Company, New York, N. Y. Cooling vapor electric apparatus. No. 1,048,762; Dec. 31; Gaz. vol. 185; p. 1161.
Thomas, Richard H., assignor to L. A. Thomas, Chicago, Ill. Trap-valve. No. 1,024,163; Apr. 23; Sp. p. 5152; Gaz. vol. 177; p. 905.
Thomas, Robert O., Connellsville, Pa. Direct-feed chamber for boilers. No. 1,043,644; Nov. 5; Gaz. vol. 184; p. 212.
Thomas, Roberts, Stevenson Company. (See Mott, Abram C., Jr., assignor.)
Thomas, Rudolf, Charlottenburg, Germany. Matrix-setting device. No. 1,024,296; Apr. 23; Sp. p. 5434; Gaz. vol. 177; p. 952.
Thomas Steel Reinforcement Co. (See Thomas, Avila, assignor.)
Thomas, Stephen S., Gulfport, Miss. Heater. No. 1,045,910; Dec. 3; Gaz. vol. 185; p. 39.
Thomas, Thomas J., Minersville, Pa. Drill. No. 1,035,270; Aug. 13; Gaz. vol. 181; p. 322.
Thomas, Thomas W., assignor of ninety one-hundredths to H. G. Wellman, Cleveland, Ohio. Quick-breaking electric-switch mechanism. No. 1,021,016; Mar. 26; Sp. p. 4272; Gaz. vol. 176; p. 793.
Thomas, Thompson F., Indianapolis, Ind. Knockdown combination minnow-trap and lantern. No. 1,041,195; Oct. 15; Gaz. vol. 183; p. 580.
Thomas, W. A. (See Edwards, Harry E., assignor.)
Thomas W. Pangborn Company, The. (See Hull, Foster J., assignor.)
Thomas, Walter, Vancouver, British Columbia, Canada. Open grate. No. 1,013,330; Jan. 2; Sp. p. 537; Gaz. vol. 174; p. 85.
Thomas, William. (See Hoag and Thomas.)
Thomas, William. (See MacDonald and Thomas.)
Thomas, William, assignor of one-half to J. E. Mote, Springfield, Mo. Combined hammer and nail-set. No. 1,041,903; Oct. 22; Gaz. vol. 183; p. 856.
Thomas, William B. (See Smith and Thomas.)
Thomas, William H. (See Kaley, Elmer B., assignor.)
Thomas, William R., Watertown, Wis. Railway-rail joint. No. 1,019,860; Mar. 12; Sp. p. 1824; Gaz. vol. 176; p. 320.
Thomas, William R., Watertown, assignor of one-half to S. E. Green, Milwaukee, Wis. Anticreeper for railway-rails. No. 1,034,168; July 30; Gaz. vol. 180; p. 1284.
Thomaschewski, Paul, Vohwinkel, near Elberfeld, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Vat dye. No. 1,028,637; June 4; Sp. p. 1240; Gaz. vol. 179; p. 190.
Thomaschewski, Paul, Vohwinkel, near Elberfeld, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Vat dyestuff. No. 1,044,602; Nov. 19; Gaz. vol. 184; p. 604.
Thomaschewski, Paul, Vohwinkel, near Elberfeld, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Vat dye. No. 1,044,603; Nov. 19; Gaz. vol. 184; p. 604.
Thomasson, Joseph T. (See Balch, Reuben E., assignor.)
Thomi, John. (See Shonkiviler and Thomi.)
Thompson, A. E., trustee. (See Thompson, Ralph, assignor.)
Thompson, Alan C. (See James and Thompson.)
Thompson, Alan C., Toronto, Ontario, Canada. Filling-spring for mattresses and the like. No. 1,025,489; May 7; Sp. p. 862; Gaz. vol. 178; p. 133.
Thompson, Albert A. (See Dingwell, Ruel, assignor.)
Thompson, Albert R. (See Anderson and Thompson.)
Thompson, Albert R., assignor to Anderson-Barngrover Manufacturing Company, San Jose, Cal. Making impaling-rolls for raisin-seeders. No. 1,038,682; Sept. 17; Gaz. vol. 182; p. 577.
Thompson, Albert W., Manchester, N. H. Device for testing the tension of belts and the like. No. 1,031,208; July 2; Gaz. vol. 180; p. 127.
Thompson, Alva E., Hastings, assignor to The Miners Electric Safety Lamp Manfg. Co., Trinidad, Colo. Battery. No. 1,040,055; Oct. 1; Gaz. vol. 183; p. 128.
Thompson, Alva E., and J. Cameron, Hastings, assignors to The Miners Electric Safety Lamp Manfg. Co., Trinidad, Colo. Lamp. No. 1,040,056; Oct. 1; Gaz. vol. 183; p. 128.
Thompson, Anna L. M., Philadelphia, Pa. Screen. No. 1,040,813; Oct. 8; Gaz. vol. 183; p. 419.
Thompson, Augustus F., Huntington, W. Va. Incandescent lamp. No. 1,024,378; Apr. 23; Sp. p. 5572; Gaz. vol. 177; p. 977.
Thompson, Augustus F., Huntington, W. Va. Gas-burner. No. 1,026,476; May 14; Sp. p. 3065; Gaz. vol. 178; p. 505.
Thompson, Benjamin F., Arlington, Md. Telegraph system. No. 1,047,334; Dec. 17; Gaz. vol. 185; p. 606.
Thompson, Carl G., Louisville, Ky. Grain-separator. No. 1,018,997; Feb. 27; Sp. p. 6136; Gaz. vol. 175; p. 1054.
Thompson, Carlos L., Marshall, Wis. Bolster-spring. No. 1,042,500; Oct. 29; Gaz. vol. 183; p. 1085.

Thompson, Charles A. (See Crecelius, Louis J., assignor.)
Thompson, Charles A., Irwin, Pa. Nut-lock. No. 1,020,668; Mar. 19; Sp. p. 3541; Gaz. vol. 176; p. 624.
Thompson, Charles A., Relay, and D. Pierce, Elkridge, Md. Signal-lantern. No. 1,036,377; Aug. 20; Gaz. vol. 181; p. 742.
Thompson, Charles E., Troy, N. Y. Lather-brush. No. 1,013,238; Jan. 2; Sp. p. 327; Gaz. vol. 174; p. 52.
Thompson, Charles E. A., assignor to The Bridgeport Foundry and Machine Company, Bridgeport, Conn. Power molding-machine. No. 1,016,530; Feb. 6; Sp. p. 688; Gaz. vol. 175; p. 103.
Thompson, Collins, *et al.* (See Noble, Warren, assignor.)
Thompson, Edgar M., Richmond, Ind. Vehicle-fender. No. 1,021,435; Mar. 26; Sp. p. 5180; Gaz. vol. 176; p. 937.
Thompson, Edward, York, N. D. Hay-sling. No. 1,032,252; July 9; Gaz. vol. 180; p. 526.
Thompson Electric Clock Company. (See Thompson, William H., assignor.)
Thompson, Elihu J., Plainfield, Ga. Gate-latch. No. 1,044,604; Nov. 19; Gaz. vol. 184; p. 604.
Thompson, Emma E. (See Thompson, William E. and E. E.)
Thompson, Everett L., New York, and J. R. Hamilton, Mount Kisco, N. Y., assignors to Venturi Alarm Company, Dover, N. J. Sprinkler-alarm device. No. 1,022,446; Apr. 9; Sp. p. 1463; Gaz. vol. 177; p. 263.
Thompson, Francis E., Arlington, Mass. Headlight-controller. No. 1,021,279; Mar. 26; Sp. p. 4831; Gaz. vol. 176; p. 881.
Thompson, Frank E., assignor to Corry Castor Company, Corry, Pa. Caster. No. 1,016,654; Feb. 6; Sp. p. 962; Gaz. vol. 175; p. 145.
Thompson, Frank E., assignor to Corry Castor Company, Corry, Pa. Caster. No. 1,031,099; July 2; Gaz. vol. 180; p. 89.
Thompson, Fred C., Granger, Wash. Pump. No. 1,028,401; June 4; Sp. p. 741; Gaz. vol. 179; p. 112.
Thompson, Frederick F., Lawton, Okla. Mixer for gaseous fluids. No. 1,018,851; Feb. 27; Sp. p. 5811; Gaz. vol. 175; p. 1004.
Thompson, George, New York, N. Y. Tongs. No. 1,045,640; Nov. 26; Gaz. vol. 184; p. 996.
Thompson, George E., Pittsburgh, Pa. Flying-machine. No. 1,032,868; July 16; Gaz. vol. 180; p. 780.
Thompson, George F. (See Ellenburg and Nelson, assignors.)
Thompson, Harrison G. (See Thomson and Thompson.)
Thompson, Harry. (See Bennett and Thompson.)
Thompson, Harry, Pelican Rapids, Minn. Post-pointing machine. No. 1,029,958; June 18; Sp. p. 4132; Gaz. vol. 179; p. 715.
Thompson, Henry, Valera, Tex. Seed-cotton cleaner. No. 1,024,297; Apr. 23; Sp. p. 5436; Gaz. vol. 177; p. 952.
Thompson, Henry S., Beacon, Mich. Ladder. No. 1,036,932; Aug. 27; Gaz. vol. 181; p. 959.
Thompson, Henry W., Oak Park, Ill. Razor-handle. No. 1,039,215; Sept. 24; Gaz. vol. 182; p. 775.
Thompson, Hiram F., Lexington, Ohio. Tree and plant irrigation. No. 1,042,501; Oct. 29; Gaz. vol. 183; p. 1085.
Thompson, Jacob M., Fond du Lac, Wis. Beer-keg mold. No. 1,038,683; Sept. 17; Gaz. vol. 182; p. 577.
Thompson, James, Greensburg, Pa. Time-switch. No. 1,021,436; Mar. 26; Sp. p. 5182; Gaz. vol. 176; p. 938.
Thompson, James, Greeley, Colo. Dropping mechanism for potato-planters. No. 1,033,213; July 23; Gaz. vol. 180; p. 935.
Thompson, James E. (See Lockwood and Thompson.)
Thompson, James S., assignor of one-half to J. B. Terbell, Chicago, Ill. Antitelescoping device for railway-cars. No. 1,024,164; Apr. 23; Sp. p. 5154; Gaz. vol. 177; p. 905.
Thompson, James S., Chicago, Ill., assignor to E. H. Fallows, New York, N. Y. Brake-shoe. No. 1,025,219; May 7; Sp. p. 241; Gaz. vol. 178; p. 40.
Thompson, James V. (See Summers and Thompson.)
Thompson, Joel N., New Madrid, Mo. Airship. No. 1,031,597; July 2; Gaz. vol. 180; p. 259.
Thompson, John, New York, N. Y. Theatrical aquatic apparatus. No. 1,041,374; Oct. 15; Gaz. vol. 183; p. 641.
Thompson, John B., Juniata, Nebr. Chute. No. 1,033,492; July 23; Gaz. vol. 180; p. 1027.
Thompson, John C., Cincinnati, Ohio. Clothes-wringer. No. 1,036,027; Aug. 20; Gaz. vol. 181; p. 616.
Thompson, John J., *et al.* (See Parchem, Albert J., assignor.)
Thompson, John S., Chicago, Ill. Type-casting machine. No. 1,026,185; May 14; Sp. p. 2407; Gaz. vol. 178; p. 406.
Thompson, John S., Chicago, Ill. Metal-pot for type-casting machines and the like. No. 1,029,243; June 11; Sp. p. 2547; Gaz. vol. 179; p. 432.
Thompson, John S., Chicago, Ill. Type setting and justifying machine. No. 1,038,234; Sept. 10; Gaz. vol. 182; p. 386.
Thompson, John S., Chicago, Ill. Printer's tie-up. No. 1,042,292; Oct. 22; Gaz. vol. 183; p. 983.
Thompson, Joseph S., Mill Valley, Cal. Means for fastening electric conductors to insulators. No. 1,022,161; Apr. 2; Sp. p. 868; Gaz. vol. 177; p. 138.
Thompson, Joseph S., Mill Valley, Cal. Electrically-heated steam-radiator. No. 1,037,369; Sept. 3; Gaz. vol. 182; p. 64.
Thompson, Joseph S., Mill Valley, Cal. Locking device for securing automobile-robes, overcoats &c. No. 1,042,502; Oct. 29; Gaz. vol. 183; p. 1085.
Thompson, Joseph S., Mill Valley, Cal. Supporting and controlling mechanism for electric switches. No. 1,047,463; Dec. 17; Gaz. vol. 185; p. 649.
Thompson, Joseph W., Portland, Oreg. Hotel-register. No. 1,036,028; Aug. 20; Gaz. vol. 181; p. 616.
Thompson, Karl W., Minneapolis, Minn. Combined shovel and ash-sifter. No. 1,045,458; Nov. 26; Gaz. vol. 184; p. 930.
Thompson, Knight H., assignor of one-half to H. T. Miller, Shelby, Ohio. Water-plug. No. 1,019,558; Mar. 5; Sp. p. 1254; Gaz. vol. 176; p. 186.
Thompson, Langdon S., Jersey City, N. J. Antiskid device. No. 1,027,450; May 28; Sp. p. 5201; Gaz. vol. 178; p. 912.
Thompson, Lauris L., Austin, Minn. Belt guiding and shifting device. No. 1,016,302; Feb. 6; Sp. p. 143; Gaz. vol. 175; p. 22.
Thompson, Louis W. (See Gardner, Frederick N. and F. E., assignors.)
Thompson, Margaret J. (See Ford, Olpha A., assignor.)
Thompson, Milton E., Ridgway, Pa. Dynamo-electric machine. No. 1,048,006; Dec. 24; Gaz. vol. 185; p. 865.
Thompson & Norris Company, The. (See Chapin, William G., assignor.)
Thompson, Ralph, assignor to A. E. Thompson, trustee, Brookline, Mass. Vehicle-top bow-clamp. No. 1,015,360; Jan. 23; Sp. p. 5013; Gaz. vol. 174; p. 866.
Thompson, Ralph P., Springfield, Ohio. Portable drill, known as hand or breast drill. No. 1,034,535; Aug. 6; Gaz. vol. 181; p. 45.
Thompson, Robert B., Coalport, Pa. Pen-point releaser. No. 1,027,674; May 28; Sp. p. 5660; Gaz. vol. 178; p. 986.
Thompson, Robert H., Jr., Portland, Oreg. Bottle faucet or tap. No. 1,041,699; Oct. 15; Gaz. vol. 183; p. 748.
Thompson, Robert M., Tacoma, Wash. Automatic steering device for flying-machines. No. 1,026,415; May 14; Sp. p. 2932; Gaz. vol. 178; p. 485.
Thompson, Ross E. (See Ripley, Gladson, and Thompson.)
Thompson, Roy B., Delmont, Pa. Wheel-form. No. 1,016,184; Jan. 30; Sp. p. 6758; Gaz. vol. 174; p. 1175.
Thompson, Roy J., Muskegon, Mich. Shock-absorber. No. 1,046,900; Dec. 10; Gaz. vol. 185; p. 422.
Thompson, Roy S., Chicago, Ill. Cherry-stemming device. No. 1,022,609; Apr. 9; Sp. p. 1815; Gaz. vol. 177; p. 317.
Thompson, Seth B., Jersey City, N. J. Auger for boring reversed-taper holes. No. 1,013,970; Jan. 9; Sp. p. 1971; Gaz. vol. 174; p. 334.
Thompson, Stacy O. (See Randall and Thompson.)
Thompson, Von W., Atlanta, Ga. Flame-gage. No. 1,021,645; Mar. 26; Sp. p. 5601; Gaz. vol. 176; p. 1007.
Thompson, Wallace S., Smyrna, Ga. Valve for rotary gas-engines. No. 1,038,462; Sept. 10; Gaz. vol. 182; p. 467.
Thompson, Walter, Chester, Pa. Piston-packing ring. No. 1,031,744; July 9; Gaz. vol. 180; p. 354.
Thompson, Walter V. E., Los Angeles, Cal. Lawn-sprinkler. No. 1,046,348; Dec. 3; Gaz. vol. 185; p. 192.
Thompson, Warren L., *et al.* (See Farrier, Mervin J., Jr., assignor.)
Thompson, Wilbur H. (See Stuart and Thompson.)
Thompson, William, New York, N. Y. Convertible bed and divan. No. 1,022,212; Apr. 2; Sp. p. 975; Gaz. vol. 177; p. 156.
Thompson, William B., assignor of one-half to A. E. Kenison, North Conway, N. H. Combined transmitter and receiver. No. 1,014,268; Jan. 9; Sp. p. 2616; Gaz. vol. 174; p. 436.
Thompson, William D., assignor to Hutchins Car Roofing Company, Detroit, Mich. Car-roof. No. 1,025,031; Apr. 30; Sp. p. 7055; Gaz. vol. 177; p. 1240.
Thompson, William E., *et al.* (See O'Neill, Henry G., assignor.)
Thompson, William E. and E. E., Ranger Lake, N. Mex. Calculator. No. 1,025,334; May 7; Sp. p. 504; Gaz. vol. 178; p. 79.
Thompson, William H., Memphis, Tenn. Motor for advertisement-display apparatus. No. 1,022,898; Apr. 9; Sp. p. 2436; Gaz. vol. 177; p. 416.
Thompson, William H., assignor to Thompson Electric Clock Company, Memphis, Tenn. Electric automobile-clock. No. 1,024,709; Apr. 30; Sp. p. 6401; Gaz. vol. 177; p. 1128.
Thompson, William L., Highmore, S. D. Insect-trap. No. 1,013,699; Jan. 2; Sp. p. 1354; Gaz. vol. 174; p. 211.
Thompson, William P. (See Weaver, Grover, assignor.)
Thompson, William R., South Norwalk, Conn., assignor of one-half to J. Tiebout, Brooklyn, N. Y., and one-fourth to E. E. Case, South Norwalk, Conn. Air-compressor. No. 1,026,132; May 14; Sp. p. 2304; Gaz. vol. 178; p. 389.

Alphabetical list of patentees—Continued.

Thompson, Willsie A. S., T. N. Kellett, and R. W. Gunn, Los Angeles, Cal. Pump. No. 1,041,375; Oct. 15; Gaz. vol. 183; p. 642.
Thoms, Frank C., Pittsburgh, Pa., assignor to The Nernst Lamp Company. Manufacturing carborundum filaments. No. 1,048,231; Dec. 24; Gaz. vol. 185; p. 940.
Thomsen, Carl L., Copenhagen, Denmark. Picture-exhibiting apparatus. No. 1,024,955; Apr. 30; Sp. p. 6914; Gaz. vol. 177; p. 1215.
Thomsen Chemical Co. (See Hillyer, Homer W., assignor.)
Thomsen, Max, assignor to Kohler Die & Specialty Company, Chicago, Ill. Pneumatic torpedo. No. 1,043,880; Nov. 12; Gaz. vol. 184; p. 324.
Thomsen, Peter. (See Schmidt and Thomsen.)
Thomsen, Thomas C., London, and A. Kirkham, county of Lancaster, England. Force-feed lubricator. No. 1,047,857; Dec. 17; Gaz. vol. 185; p. 788.
Thomson, Arthur G., San Francisco, Cal. Automobile lamp attachment. No. 1,035,497; Aug. 13; Gaz. vol. 181; p. 402.
Thomson, Arthur G., assignor to Pivot Auto Light Co., San Francisco, Cal. Pivot-lamp attachment for automobiles. No. 1,030,352; June 25; Sp. p. 5001; Gaz. vol. 179; p. 891.
Thomson Electric Welding Company. (See Harmatta, Johann, assignor.)
Thomson Electric Welding Company. (See Rietzel, Adolph F., assignor.)
Thomson Electric Welding Company. (See Rietzel and Barstow, assignors.)
Thomson Electric Welding Company. (See Thomson, Elihu, assignor.)
Thomson, Elihu, Swampscott, Mass., assignor to General Electric Company. Regulating and controlling the production of steam. No. 1,015,982; Jan. 30; Sp. p. 6355; Gaz. vol. 174; p. 1106.
Thomson, Elihu, Swampscott, Mass., assignor to General Electric Company. Regulation and control of steam production. No. 1,015,983; Jan. 30; Sp. p. 6357; Gaz. vol. 174; p. 1106.
Thomson, Elihu, Swampscott, Mass., assignor to General Electric Company. Igniting apparatus for gas-engines. No. 1,021,219; Mar. 26; Sp. p. 4701; Gaz. vol. 176; p. 860.
Thomson, Elihu, Swampscott, Mass., assignor to General Electric Company. Vaporizer for internal-combustion engines. No. 1,021,220; Mar. 26; Sp. p. 4704; Gaz. vol. 176; p. 860.
Thomson, Elihu, Swampscott, Mass., assignor to General Electric Company. Electrical measuring instrument. No. 1,022,517; Apr. 9; Sp. p. 1602; Gaz. vol. 177; p. 287.
Thomson, Elihu, Swampscott, Mass., assignor to General Electric Company. System of heating. No. 1,031,489; July 2; Gaz. vol. 180; p. 223.
Thomson, Elihu, Swampscott, Mass., assignor to General Electric Company. Reduction of ores. No. 1,031,490; July 2; Gaz. vol. 180; p. 224.
Thomson, Elihu, Swampscott, Mass., assignor to General Electric Company. Electrical resistance. No. 1,039,463; Sept. 24; Gaz. vol. 182; p. 862.
Thomson, Elihu, Swampscott, Mass., assignor to General Electric Company. Arc-lamp. No. 1,041,197; Oct. 15; Gaz. vol. 183; p. 581.
Thomson, Elihu, Swampscott, Mass., assignor to General Electric Company. Vapor electric device. No. 1,045,641; Nov. 26; Gaz. vol. 184; p. 996.
Thomson, Elihu, Swampscott, Mass., assignor to General Electric Company. Turbo-electric ship propulsion. No. 1,047,593; Dec. 17; Gaz. vol. 185; p. 696.
Thomson, Elihu, Swampscott, Mass., assignor to General Electric Company. Turbo-electric propulsion of vessels. No. 1,047,858; Dec. 17; Gaz. vol. 185; p. 788.
Thomson, Elihu, Swampscott, assignor to Thomson Electric Welding Company, Lynn, Mass. Uniting metals. No. 1,022,712; Apr. 9; Sp. p. 2067; Gaz. vol. 177; p. 355.
Thomson, Elihu, Swampscott, assignor to Thomson Electric Welding Company, Lynn, Mass. Electric metal-working machine. No. 1,045,911; Dec. 3; Gaz. vol. 185; p. 40.
Thomson, Elihu, Swampscott, assignor to Thomson Electric Welding Company, Lynn, Mass. Clamp for electric metal-working apparatus. No. 1,048,915; Dec. 31; Gaz. vol. 185; p. 1214.
Thomson, Francis D., Wheeling, W. Va. Reversing driving mechanism. No. 1,024,298; Apr. 23; Sp. p. 5438; Gaz. vol. 177; p. 953.
Thomson, Henry C., Boston, Mass., assignor to Electric Goods Manufacturing Company. Push-button. No. 1,016,589; Feb. 6; Sp. p. 823; Gaz. vol. 175; p. 123.
Thomson, Maitland, Red Bank, N. J. Sofa-bedstead. No. 1,036,746; Aug. 27; Gaz. vol. 181; p. 898.
Thomson, Robert W., Lynn, Mass., assignor to United-Xpedite Finishing Company, Berwick, Me. Finishing-machine. No. 1,025,549; May 7; Sp. p. 995; Gaz. vol. 178; p. 154.
Thomson, Samuel G. (See Thomson, William P. and S. G.)
Thomson, Thomas N., Scranton, Pa., assignor to International Poultry Sales Company, Brown Mills, N. J. Incubator. No. 1,039,844; Oct. 1; Gaz. vol. 183; p. 59.
Thomson-Thomson Company. (See Thomson, William P. and S. G., assignors.)
Thomson, William E. (See Tuke, David O., assignor.)
Thomson, William I., Newark, and H. G. Thompson, Glen Ridge, N. J., assignors to Safety Car Heating & Lighting Company. Heating. No. 1,026,722; May 21; Sp. p. 3588; Gaz. vol. 178; p. 625.
Thomson, William P. and S. G., assignors to Thomson-Thomson Company, Philadelphia, Pa. Rail-joint. No. 1,016,797; Feb. 6; Sp. p. 1262; Gaz. vol. 175; p. 194.
Thomson, William P. and S. G., assignors to Thomson-Thomson Company, Philadelphia, Pa. Nut-locking washer. No. 1,016,798; Feb. 6; Sp. p. 1265; Gaz. vol. 175; p. 194.
Thomson, William P. and S. G., Philadelphia, Pa. Railway-tie. No. 1,018,139; Feb. 20; Sp. p. 4246; Gaz. vol. 175; p. 729.
Thordarson, Chester H., Chicago, Ill. Electric measuring instrument. No. 1,016,303; Feb. 6; Sp. p. 145; Gaz. vol. 175; p. 23.
Thordarson, Chester H., Chicago, Ill. Attachment for spark-coils. No. 1,043,274; Nov. 5; Gaz. vol. 184; p. 80.
Thoren, Ernst F., St. Louis, assignor of one-half to E. E. Laun, Clayton, Mo. Belt-polishing machine. No. 1,039,845; Oct. 1; Gaz. vol. 183; p. 60.
Thormeyer, Franz E., Hamburg, Germany. Device for controlling the synchronism of two motors. No. 1,013,331; Jan. 2; Sp. p. 539; Gaz. vol. 174; p. 86.
Thormeyer, Franz E., Hamburg, Germany. Means for controlling the time of starting phonographs and the like. No. 1,049,171; Dec. 31; Gaz. vol. 185; p 1301.
Thorn, George W., Chicago, Ill. Extensible gas-pipe. No. 1,015,853; Jan. 30; Sp. p. 6081; Gaz. vol. 174; p. 1060.
Thorn, Henry A. A., Haymarket, London, England. Clip for attaching the lock-plates of guns. No. 1,035,498; Aug. 13; Gaz. vol. 181; p. 402.
Thorn, William, Arnaudville, La. Harrow. No. 1,013,462; Jan. 2; Sp. p. 815; Gaz. vol. 174; p. 130.
Thornburg, John H., Knightstown, Ind. Hog-feeder. No. 1,031,397; July 2; Gaz. vol. 180; p. 192.
Thornburg, Lincoln A., Muncie, Ind., assignor to American Window Glass Machine Company, Pittsburgh, Pa. Glass-drawing apparatus. No. 1,018,643; Feb. 27; Sp. p. 5384; Gaz. vol. 175; p. 933.
Thorndike, Herbert W., assignor to F. W. Webb Manufacturing Company, Boston, Mass. Jet-head for drinking-fountains. No. 1,022,162; Apr. 2; Sp. p. 869; Gaz. vol. 177; p. 138.
Thorndike, Herbert W., assignor to F. W. Webb Manufacturing Company, Boston, Mass. Floor connection. No. 1,039,846; Oct. 1; Gaz. vol. 183; p. 60.
Thorne, Henry, Melbourne, Victoria, Australia. Resilient top piece for the heels of boots and shoes. No. 1,044,294; Nov. 12; Gaz. vol. 184; p. 467.
Thorne, Richard. (See Shrum, George D., assignor.)
Thorne, Robert W., London, Ontario, Canada. Pneumatic carpet-cleaner. No. 1,037,081; Aug. 27; Gaz. vol. 181; p. 1010.
Thornhill, James A., Champaign, Ill. Safety appliance for elevators. No. 1,043,881; Nov. 12; Gaz. vol. 184; p. 324.
Thornhill, William A., Gibbon, Okla. Shoulder-pad. No. 1,041,196; Oct. 15; Gaz. vol. 183; p. 581.
Thornley, Albert J., assignor to Narragansett Machine Company, Pawtucket, R. I. Vaulting-bar. No. 1,013,829; Jan. 2; Sp. p. 1610; Gaz. vol. 174; p. 257.
Thornley, Albert J., assignor to Narragansett Machine Company, Pawtucket, R. I. Locker structure. No. 1,041,700; Oct. 15; Gaz. vol. 183; p. 748.
Thornley, Albert J., assignor to Narragansett Machine Company, Pawtucket, R. I. Gymnasium apparatus. No. 1,041,701; Oct. 15; Gaz. vol. 183; p. 748.
Thornton, Corinne E. and M., Los Angeles, Cal. Bandeau and hat fastener. No. 1,037,806; Sept. 3; Gaz. vol. 182; p. 209.
Thornton, Durward L., Monroe, Ga. Cotton chopper and cultivator. No. 1,028,402; June 4; Sp. p. 743; Gaz. vol. 179; p. 112.
Thornton, Marcellus E. (See Tommasini, Antonio, assignor.)
Thornton, Marie. (See Thornton, Corinne E. and M.)
Thornton, Thomas J. (See Smith and Thornton.)
Thorp, Rudolph. (See Hanson and Thorp.)
Thorpe, Gertrude, assignor of one-half to W. Hogg, Philadelphia, Pa. Head-covering. No. 1,040,461; Oct. 8; Gaz. vol. 183; p. 295.
Thorsby, Karl J., assignor to California Corrugated Culvert Company, Oakland, Cal. Metallic culvert. No. 1,017,347; Feb. 13; Sp. p. 2472; Gaz. vol. 175; p. 420.
Thorsby, Karl J., assignor to California Corrugated Culvert Company, Oakland, Cal. Metallic culvert. No. 1,028,638; June 4; Sp. p. 1241; Gaz. vol. 179; p. 191.
Thorsby, Karl J., assignor to California Corrugated Culvert Company, Oakland, Cal. Trough, flume, conduit, and the like. No. 1,036,029; Aug. 20; Gaz. vol. 181; p. 617.
Thorschmidt, Ernest C. (See Barnes and Thorschmidt.)
Thorschmidt, Ernest C., New York, N. Y. Stave-cutting machine. No. 1,036,747; Aug. 27; Gaz. vol. 181; p. 899.
Thorsen, Martin J., Weehawken, N. J. Tube-scraper. No. 1,042,841; Oct. 29; Gaz. vol. 183; p. 1203.

Alphabetical list of patentees—Continued.

Thorson, Carl O., Bancroft, Iowa. Evener attachment. No. 1,038,463; Sept. 10; Gaz. vol. 182; p. 468.
Thorssell, Carl T., and N. K. E. Malmsten, Malmö, Sweden. Gearing. No. 1,030,034; June 18; Sp. p. 4277; Gaz. vol. 179; p. 741.
Thorssell, Karl T. (See Malmsten and Thorssell.)
Thorsteinson, Walter, Winnipeg, Manitoba, Canada. Signal device. No. 1,027,295; May 21; Sp. p. 4888; Gaz. vol. 178; p. 822.
Thortvedt, Levi, Glyndon, Minn. Loader. No. 1,039,847; Oct. 1; Gaz. vol. 183; p. 60.
Thos. H. Dallett Co. (See Van Sickel, Wilber H., assignor.)
Thos. S. Watson Company. (See Watson, Thomas S., assignor.)
Thowless, Orlando M., Newark, N. J. Illuminant for electrical incandescent lamps. No. 1,023,485; Apr. 16; Sp. p. 3688; Gaz. vol. 177; p. 653.
Thrasher, William E., Bisbee, Ariz. Drill. No. 1,037,082; Aug. 27; Gaz. vol. 181; p. 1011.
Threm, Albert J., Beans Creek, Tenn. Lock-nut. No. 1,024,427; Apr. 23; Sp. p. 5706; Gaz. vol. 177; p. 993.
Throckmorton, Ralph H., Homestead, Nebr. Manure-spreader. No. 1,023,342; Apr. 16; Sp. p. 3408; Gaz. vol. 177; p. 608.
Thron, Heinrich, assignor to Vereinigte Chininfabriken, Zimmer & Co. G. m. b. H., Frankfort-on-the-Main, Germany. Quinin esters of aromatic amino acids and producing same. No. 1,019,285; Mar. 5; Sp. p. 624; Gaz. vol. 176; p. 97.
Thron, Heinrich, assignor to Vereinigte Chininfabriken Zimmer & Co., G. m. b. H., Frankfort-on-the-Main, Germany. Manufacture of hydroquinin. No. 1,038,027; Sept. 10; Gaz. vol. 182; p. 319.
Thron, Heinrich, assignor to Vereinigte Chininfabriken Zimmer & Co., Gesellschaft mit beschränkter Haftung, Frankfort-on-the-Main, Germany. Manufacture of esters of the hydrocinchona alkaloids. No. 1,041,528; Oct. 15; Gaz. vol. 183; p. 692.
Thron, Heinrich, assignor to Vereinigte Chininfabriken Zimmer & Co., G. m. b. H., Frankfort-on-the-Main, Germany. Manufacture of esters of the hydrocinchona alkaloids. No. 1,049,172; Dec. 31; Gaz. vol. 185; p. 1301.
Thron, Heinrich, Frankfort-on-the-Main, E. Sprongerts, Biebrich, and C. Freund, assignors to Vereinigte Chininfabriken Zimmer & Co., G. m. b. H., Frankfort-on-the-Main, Germany. Manufacture of carbamates of tertiary alcohols. No. 1,016,977; Feb. 13; Sp. p. 1660; Gaz. vol. 175; p. 292.
Thropp, Joseph W., Trenton, N. J. Tire-wrapping and unwrapping machine. No. 1,031,491; July 2; Gaz. vol. 180; p. 224.
Thropp, Peter D. (See De Laski and Thropp.) (Reissue.)
Thruman, Charles F., Pasadena, Cal. Detachable suspension-hook for painters. No. 1,040,462; Oct. 8; Gaz. vol. 183; p. 295.
Thrush, Richard, *et al.* (See Troxler, Gustavus, assignor.)
Thrush, William S. R., Carlisle, Pa. Grain-drill. No. 1,021,017; Mar. 26; Sp. p. 4275; Gaz. vol. 176; p. 794.
Thulin, John. (See Manley, Thulin, and Smith.)
Thulin, Martin, Ephraim, Utah. Electric appliance. No. 1,014,537; Jan. 9; Sp. p. 3164; Gaz. vol. 174; p. 527.
Thullen, Louis H., Edgewood Park, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway signaling system. No. 1,030,436; June 25; Sp. p. 5181; Gaz. vol. 179; p. 922.
Thullen, Louis H., Edgewood, assignor to The Union Switch and Signal Company, Swissvale, Pa. Signaling system for railways. No. 1,043,170; Nov. 5; Gaz. vol. 184; p. 45.
Thum, Robert C., L. C. Umphrey, Morgantown, and M. Clune, Indianapolis, Ind.; said Thum and Umphrey assignors to said Clune. Davenport. No. 1,043,482; Nov. 5; Gaz. vol. 184; p. 157.
Thummel, William G., St. Louis, Mo. Motor-vehicle. No. 1,048,232; Dec. 24; Gaz. vol. 185; p. 940.
Thunberg, Oscar F., Seattle, Wash. Tripod attachment. No. 1,022,983; Apr. 9; Sp. p. 2626; Gaz. vol. 177; p. 447.
Thurber, Edward. (See Laning, Carl E., assignor.)
Thurber, Fred T., Red Lion, Colo. Elevated electric railway. No. 1,019,559; Mar. 5; Sp. p. 1256; Gaz. vol. 176; p. 187.
Thurber, George B., Lincoln, Nebr. Hinge. No. 1,037,807; Sept. 3; Gaz. vol. 182; p. 210.
Thurber, George E., assignor of one-half to E. J. Bower, Michigan City, Ind. Automatic safety device. No. 1,032,033; July 9; Gaz. vol. 180; p. 451.
Thurlow, Nathaniel. (See Baekeland and Thurlow.)
Thurman, Charles R., assignor to Electric Renovator Manufacturing Company, Pittsburgh, Pa. Valve connection for pneumatic cleaning systems. No. 1,036,378; Aug. 20; Gaz. vol. 181; p. 742.
Thurman, Charles R., assignor to Electric Renovator Manufacturing Company, Pittsburgh, Pa. Valve for vacuum cleaning systems. No. 1,037,083; Aug. 27; Gaz. vol. 181; p. 1011.
Thurman, Charles R., assignor to Electric Renovator Manufacturing Company, Pittsburgh, Pa. Dust-collector. No. 1,043,551; Nov. 5; Gaz. vol. 184; p. 181.
Thurman, John S., and J. A. Dunlap, St. Louis, Mo.; said Dunlap assignor to said Thurman. Vacuum-controller for pneumatic cleaning apparatus. No. 1,014,729; Jan. 16; Sp. p. 3650; Gaz. vol. 174; p. 624.
Thurston, Charles M., San Francisco, Cal. Adjustable curtain-support. No. 1,025,335; May 7; Sp. p. 507; Gaz. vol. 178; p. 79.
Thurston, E. L., trustee. (See Dun Lany, William P., assignor.)
Thurston, Frederick A., Lynn, Mass. Skiving-machine. No. 1,031,301; July 2; Gaz. vol. 180; p. 160.
Thurston, Fredrick A., Lynn, Mass. Internal-combustion engine. No. 1,042,503; Oct. 29; Gaz. vol. 183; p. 1085.
Thurston, Fredrick A., Lynn, Mass. Machine for buffing articles of sheet material. No. 1,047,335; Dec. 17; Gaz. vol. 185; p. 607.
Thwing, Charles B., assignor to Thwing Instrument Company, Philadelphia, Pa. Graphic recorder. No. 1,046,680; Dec. 10; Gaz. vol. 185; p. 347.
Thwing Instrument Company. (See Thwing, Charles B., assignor.)
Tibbals, Arthur W., and C. D. Young, Delaware, Ohio. Heater for incubators. No. 1,015,361; Jan. 23; Sp. p. 5015; Gaz. vol. 174; p. 867.
Tibbals, Frank A., Monmouth, Ill. Screw-driver. No. 1,036,379; Aug. 20; Gaz. vol. 181; p. 743.
Tibbetts, Milton, assignor, by mesne assignments, to Packard Motor Car Company, Detroit, Mich. Ignition apparatus for hydrocarbon-engines. No. 1,023,180; Apr. 16; Sp. p. 3092; Gaz. vol. 177; p. 553.
Tibbles, Judson R., Macedonia, Iowa. Driving-gear for vehicles. No. 1,026,375; May 14; Sp. p. 2848; Gaz. vol. 178; p. 471.
Tibbott, Frederick M., Norfolk, Va. Rail-joint. No. 1,020,166; Mar. 12; Sp. p. 2473; Gaz. vol. 176; p. 421.
Tichborne, Walter F. C., Pelham, N. Y. Sheet adjuster and guide for printing-presses. No. 1,014,269; Jan. 9; Sp. p. 2617; Gaz. vol. 174; p. 437.
Tichenor, Lewis E., and S. E. McAnulty, Saratoga, Wyo. Vehicle-spoke. No. 1,019,560; Mar. 5; Sp. p. 1257; Gaz. vol. 176; p. 187.
Tichon, Joseph E., New Bedford, Mass., assignor to R. Grieve, Providence, R. I. Faucet. No. 1,019,380; Mar. 5; Sp. p. 881; Gaz. vol. 176; p. 129.
Tickner, Frank. (See Leuthner and Tickner.)
Ticknor-Manierre Company. (See Manierre, George, assignor.)
Tickometer Company, The. (See Kimball, Robert E., assignor.)
Ticonderoga Machine Works. (See Warren, Thomas E., assignor.)
Tideman, Henry, Menominee, Mich. Gearing. No. 1,029,959; June 18; Sp. p. 4133; Gaz. vol. 179; p. 716.
Tideman, Henry, Menominee, Mich. Transmitter for the deaf. No. 1,036,933; Aug. 27; Gaz. vol. 181; p. 960.
Tideman, Henry, Menominee, Mich. Animal-cleaning device. No. 1,048,233; Dec. 24; Gaz. vol. 185; p. 940.
Tidewater Peanut Harvester Corporation. (See Whitmore, Thomas J., assignor.)
Tiebout, John, *et al.* (See Thompson, William R., assignor.)
Tieche, Ceaser A., Seattle, Wash. Rail-joint. No. 1,026,288; May 14; Sp. p. 2639; Gaz. vol. 178; p. 441.
Tiedebohl, Theodore C. (See Donahoe, Hedley J., assignor.)
Tiedemann, Charles H., assignor of one-half to W. S. Brickell, Buffalo, N. Y. Dirigible automobile lamp-bracket. No. 1,031,398; July 2; Gaz. vol. 180; p. 193.
Tiedemann, Clinton C., Milwaukee, Wis. Removable sad-iron holder. No. 1,018,530; Feb. 27; Sp. p. 5136; Gaz. vol. 175; p. 894.
Tiedtke, Richard, assignor to Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany. Mixing-machine. No. 1,048,763; Dec. 31; Gaz. vol. 185; p. 1162.
Tiefel, Charles G. (See Todd and Tiefel.)
Tiemann, Fritz, Berlin, Germany. Apparatus for compressing precipitates in settling vessels. No. 1,042,293; Oct. 22; Gaz. vol. 183; p. 984.
Tiemann, Harry D., Washington, D. C. Apparatus for drying timber and other moisture-bearing substances. No. 1,019,743; Mar. 5; Sp. p. 1588; Gaz. vol. 176; p. 247.
Tiemann, Harry D., Washington, D. C. Apparatus for drying timber and other moisture-bearing substances. No. 1,019,999; Mar. 12; Sp. p. 2120; Gaz. vol. 176; p. 365.
Tierney, John P. and L. Csernai, Youngstown, Ohio. Hose connection. No. 1,046,901; Dec. 10; Gaz. vol 185; p. 422.
Tierney, John W., Upper Norwood, England. Apparatus for hammering the heels of boots and shoes. No. 1,013,971; Jan. 9; Sp. p. 1973; Gaz. vol. 174; p. 334.
Tietz, William, Richmond, Va. Shelf structure. No. 1,025,032; Apr. 30; Sp. p. 7056; Gaz. vol. 177; p. 1240.

Alphabetical list of patentees—Continued.

Tiffany, Earl, Logan, Iowa. Harness. No. 1,016,048; Jan. 30; Sp. p. 6499; Gaz. vol. 174; p. 1130.
Tiffany, Edward D., assignor of one-half to J. De Planty, Albion, N. Y. Clam-opener. No. 1,041,198; Oct. 15; Gaz. vol. 183; p. 581.
Tift, Albertus, Deer Harbor, Wash. Fender. No. 1,033,750; July 23; Gaz. vol. 180; p. 1110.
Tigerman, William H. (See Pfautz, Daniel M., assignor.)
Tighe, James F., Philadelphia, Pa. Elevator safety-clutch. No. 1,041,904; Oct. 22; Gaz. vol. 183; p. 856.
Tilden, Bert O., assignor to American Sanitary Works, New York, N. Y. Flush-tank-operating device. (Reissue.) No. 13,391; Mar. 26; Sp. p. 5826; Gaz. vol. 176; p. 1045.
Tilden-Thurber Company. (See Rathbun, Henry E., assignor.)
Tileston, Henry M., deceased, Chicago, Ill.: J. F. Devine, administrator. Fishing-tackle. No. 1,036,380; Aug. 20; Gaz. vol. 181; p. 743.
Tilford, Charley R., assignor of one-third to H. Frye, Tullahoma, Tenn. Shock-tying device. No. 1,038,988; Sept. 17; Gaz. vol. 182; p. 682.
Tilford, George H., assignor to Tilford Manufacturing Company, Providence, R. I. Bracelet. No. 1,016,304; Feb. 6; Sp. p. 149; Gaz. vol. 175; p. 23.
Tilford Manufacturing Company. (See Tilford, George H., assignor.)
Tilley, Allan, Brockville, Ontario, Canada. Overshoe for horses and the like. No. 1,045,912; Dec. 3; Gaz. vol. 185; p. 40.
Tilley, Swan J., Chappell, Nebr. Wagon end-gate. No. 1,038,989; Sept. 17; Gaz. vol. 182; p. 683.
Tilley, William H., Willowranch, Cal. Animal-trap. No. 1,017,605; Feb. 13; Sp. p. 2998; Gaz. vol. 175; p. 506.
Tillinghast, James. (See Loring, Benjamin C., assignor.)
Tillmanns, Gottfried L. (See Benjaminowitsch, Wolf, assignor.)
Tillotson, George L., and M. H. Nicholas, Portland, Oreg. Gage-cock. No. 1,014,538; Jan. 9; Sp. p. 3165; Gaz. vol. 174; p. 527.
Tillotson, Leslie B., *et al.*, administrators. (See Hannum, Ralph C. and H. A.)
Tilson, Martin D. (See Edwards, George F., assignor.)
Tilson, William H., Plainview, Tex. Cutting mechanism for corn-harvesters. No. 1,028,799; June 4; Sp. p. 1569; Gaz. vol. 179; p. 245.
Tilssner, Charles, Oglesby, Ill. Tool-holder. No. 1,042,842; Oct. 29; Gaz. vol. 183; p. 1203.
Tilt, Frederick, and J. E. Telling, Holland, Mich. Shoe or boot. No. 1,034,744; Aug. 6; Gaz. vol. 181; p. 115.
Tilton, Frank J., New Orleans, La. Keel steering mechanism. No. 1,032,965; July 16; Gaz. vol. 180; p. 810.
Tilton, John W., assignor of one-half to G. Hoefer, C. J. Adams, and N. W. Young, Atlantic City, N. J. Shock-absorbing hub for vehicle-wheels. No. 1,041,702; Oct. 15; Gaz. vol. 183; p. 749.
Tilton, Walter H., assignor to Winchester Repeating Arms Company, New Haven, Conn. Butt-stock for shoulder-arms. No. 1,025,550; May 7; Sp. p. 997; Gaz. vol. 178; p. 154.
Tily, Stephen B. (See Brewer, Tily, and Rehfuss.)
Timewell Sack Filling and Sewing Machine Company. (See Scott, George E. and E. D., assignors.)
Timken-Detroit Axle Company, The. (See Weaver, Robert B., assignor.)
Timken Roller Bearing Company, The. (See Flaherty, John F., assignor.)
Timmerman, Ernest B. (See Carson and Timmerman.)
Timming, August C., South Bend, assignor to Mishawaka Woolen Manufacturing Co., Mishawaka, Ind. Knitting-machine. No. 1,017,705; Feb. 20; Sp. p. 3206; Gaz. vol. 175; p. 576.
Timmins, Forrest M. (See Anderson, Emil H., assignor.)
Timmis, Walter S., New York, N. Y. Junction-box. No. 1,013,972; Jan. 9; Sp. p. 1977; Gaz. vol. 174; p. 335.
Timmons, Haskell H., and E. L. Smith, Fredonia, Kans. Music-leaf turner. No. 1,024,916; Apr. 30; Sp. p. 6839; Gaz. vol. 177; p. 1201.
Timmons, Joseph W., Orlando, Fla. Scythe-blade. No. 1,045,218; Nov. 26; Gaz. vol. 184; p. 846.
Timms, Henry C., Columbus, Ohio. Egg-testing device. No. 1,047,336; Dec. 17; Gaz. vol. 185; p. 607.
Tincher, John W. (See Chmidling and Tincher.)
Tindall, Job S., Pueblo, Colo. Excavating and loading mechanism. No. 1,038,684; Sept. 17; Gaz. vol. 182; p. 578.
Tingberg, Otto E., Stockholm, Sweden. Manufacture of paper, cardboard, and the like. No. 1,048,110; Dec. 24; Gaz. vol. 185; p. 900.
Tingle, George W., Chatham, Ohio. Storm-front for vehicles. No. 1,035,271; Aug. 13; Gaz. vol. 181; p. 322.
Tingley, Egbert M., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Dynamo-electric machine. No. 1,018,531; Feb. 27; Sp. p. 5137; Gaz. vol. 175; p. 895.
Tingley, Leonard C., assignor to M. A. N. Manufacturing Company, Providence, R. I. Locking-clamp. No. 1,021,343; Mar. 26; Sp. p. 4958; Gaz. vol. 176; p. 905.
Tinker, Justus A. (See York and Tinker.)
Tinker, Wilkie, Anamoose, N. D. Tank-heater. No. 1,017,481; Feb. 13; Sp. p. 2772; Gaz. vol. 175; p. 468.
Tinker, William J., Pierce City, Mo. Gas-filter. No. 1,020,782; Mar. 19; Sp. p. 3787; Gaz. vol. 176; p. 663.
Tinklepaugh, Charles N., Burton, Ohio. Desiccated-fruit product. No. 1,033,637; July 23; Gaz. vol. 180; p. 1075.
Tinnin, Joseph L., Ripon, Cal. Nut-lock. No. 1,016,237; Jan. 30; Sp. p. 6860; Gaz. vol. 174; p. 1192.
Tinsley, Louis. (See Colby and Tinsley.)
Tinsley, William P., Beecher City, Ill. Milk-agitator. No. 1,045,913; Dec. 3; Gaz. vol. 185; p. 41.
Tinsman, Drew S. (See Shea, David E., assignor.)
Tinsman, Samuel H., St. Joseph, Mo. Plow. No. 1,016,378; Feb. 6; Sp. p. 308; Gaz. vol. 175; p. 49.
Tinsman, Samuel H., Morris, Ill. Cultivator. No. 1,025,220; May 7; Sp. p. 244; Gaz. vol. 178; p. 41.
Tippett, John, Mogollon, N. Mex. Trap. No. 1,026,477; May 14; Sp. p. 3066; Gaz. vol. 178; p. 505.
Tirapani, Alfredo C., Bologna, Italy. System of construction of gabions for defense-works in rivers, torrents, and canals, for retaining and supporting walls in mountainous country, &c. No. 1,047,464; Dec. 17; Gaz. vol. 185; p. 649.
Tirrill, Allen A., Schenectady, N. Y. Insulated switch-cover. No. 1,028,639; June 4; Sp. p. 1242; Gaz. vol. 179; p. 191.
Tirrill, Allen A., Schenectady, N. Y. Operating cord or chain for switches. No. 1,031,399; July 2; Gaz. vol. 180; p. 193.
Tirrill, Allen A., Schenectady, N. Y. Operating cord or chain for switches. No. 1,031,400; July 2; Gaz. vol. 180; p. 193.
Tirrill, Allen A., Athens, Pa. Chain or cord coupling. No. 1,031,401; July 2; Gaz. vol. 180; p. 194.
Tirrill, Allen A., Schenectady, N. Y., assignor to General Electric Company. Motor speed-regulator. No. 1,029,480; June 11; Sp. p. 3065; Gaz. vol. 179; p. 514.
Tirrill, Jacob P., St. Louis, Mo. Sample-book. No. 1,041,703; Oct. 15; Gaz. vol. 183; p. 749.
Tisch, Charles L., Beach Haven, Pa. Tedder attachment for mowing-machines. No. 1,016,655; Feb. 6; Sp. p. 963; Gaz. vol. 175; p. 146.
Tisher, Zachariah, Spokane, Wash. Aeroplane. No. 1,025,033; Apr. 30; Sp. p. 7058; Gaz. vol. 177; p. 1241.
Tisi, Vincent, San Francisco, Cal. Railway-tie. No. 1,029,244; June 11; Sp. p. 2550; Gaz. vol. 179; p. 432.
Titanium Alloy Manufacturing Company, The. (See Rossi, Auguste J., assignor.)
Titanium Alloy Manufacturing Company, The. (See Rossi and Meredith, assignors.)
Tittsworth, Elmer L., New Canton, Ill. Post-hole digger. No. 1,039,613; Sept. 24; Gaz. vol. 182; p. 915.
Titus, Albert R. (See Titus, Albert T. and A. R.)
Titus, Albert T. and A. R., Robbinsdale, Minn. Exhaust for gas-engines. No. 1,038,685; Sept. 17; Gaz. vol. 182; p. 578.
Titus, Benjamin, Wellville, Va. Broom-corn harvester. No. 1,034,044; July 30; Gaz. vol. 180; p. 1242.
Titus, Benjamin, Wellville, Va. Broom-corn booter. No. 1,036,030; Aug. 20; Gaz. vol. 181; p. 618.
Titus, Caroline F., Chicago, Ill. Sanitary garment. No. 1,030,943; July 2; Gaz. vol. 180; p. 32.
Titus, Henry W., New York, N. Y. Exercising apparatus. No. 1,019,861; Mar. 12; Sp. p. 1824; Gaz. vol. 176; p. 320.
Titus, Richard, Bowling Green, Ohio. Spring-winder. No. 1,013,239; Jan. 2; Sp. p. 328; Gaz. vol. 174; p. 52.
Titus, William N., Jr., Watertown, Mass. Spring compressing and assembling device. No. 1,026,837; May 21; Sp. p. 3846; Gaz. vol. 178; p. 664.
Tix, Paul J., Colorado Springs, Colo. Adjustable hamering holder. No. 1,017,188; Feb. 13; Sp. p. 2132; Gaz. vol. 175; p. 365.
Tizzard, Benjamin F., Dayton, and H. G. Egbert, Cincinnati, Ohio. Rail joint and fastener. No. 1,046,380; Dec. 3; Gaz. vol. 185; p. 203.
Toaz, Glenn A., Detroit, Mich. Pump. No. 1,036,934; Aug. 27; Gaz. vol. 181; p. 960.
Tobbenboske, Frederick H., Quincy, Mass. Rack for patterns. No. 1,028,978; June 11; Sp. p. 1975; Gaz. vol. 179; p. 341.
Tobey, William L., Winthrop, Mass. Tire-removing device. No. 1,036,748; Aug. 27; Gaz. vol. 181; p. 899.
Tobey, William L., Winthrop, Mass. Muffling device. No. 1,048,111; Dec. 24; Gaz. vol. 185; p. 900.
Tobias, Francis H., New York, N. Y. Lamp. No. 1,034,536; Aug. 6; Gaz. vol. 181; p. 45.
Tobias, Francis H., New York, N. Y. Light-dimmer. No. 1,040,814; Oct. 8; Gaz. vol. 183; p. 419.
Tobias, Guy O., Clinton, Mo. Governor for internal-combustion engines. No. 1,044,105; Nov. 12; Gaz. vol. 184; p. 402.
Tobias, John D., Los Angeles, Cal. Drummer's pedal. No. 1,031,598; July 2; Gaz. vol. 180; p. 260.
Tobin, James, St. Bonifacius, Pa. Nut-lock. No. 1,029,775; June 18; Sp. p. 3703; Gaz. vol. 179; p. 652.
Tobin, Lawrence J. (See O'Loughlin, George, assignor.)
Tobin, Patric H., *et al.* (See Upshaw, Lucius L., assignor.)
Toborg, George, Chicago, Ill. Automatic firearm. No. 1,017,119; Feb. 13; Sp. p. 1983; Gaz. vol. 175; p. 341.

Alphabetical list of patentees—Continued.

Toborg, George, Chicago, Ill. Automatic firearm. No. 1,047,337; Dec. 17; Gaz. vol. 185; p. 608.
Toce, Francesco A., Lake Charles, La. Device for carrying keys. No. 1,042,843; Oct. 29; Gaz. vol. 183; p. 1203.
Toch, Henry M. (See Toch, Maximilian, assignor.)
Toch, Maximilian, assignor of one-half to H. M. Toch, New York, N. Y. Waterproof Portland cement and making it. No. 1,029,643; June 18; Sp. p. 3405; Gaz. vol. 179; p. 606.
Tocik, Georgi, Ployeschi, Roumania. Projectile for firearms. No. 1,017,928; Feb. 20; Sp. p. 3779; Gaz. vol. 175; p. 656.
Tod, James S., Rock Island, Ill. Watering-trough. No. 1,042,056; Oct. 22; Gaz. vol. 183; p. 906.
Todd, Alexander B., Chico, and W. J. H. Fogelstrom, Oakland, Cal.; said Fogelstrom assignor to said Todd. Match-sorting machine. No. 1,035,272; Aug. 13; Gaz. vol. 181; p. 322.
Todd, Charles, St. Louis, Mo. Garment-pressing machine. No. 1,038,686; Sept. 17; Gaz. vol. 182; p. 579.
Todd Co., A. M., The. (See Shirley, John H., assignor.)
Todd & Company, G. W. (See Todd and Tiefel, assignors.)
Todd, Frank, assignor, by mesne assignments, to Long Manufacturing Company, Chicago, Ill. Machine for bending or corrugating and crimping sheet metal. No. 1,031,599; July 2; Gaz. vol. 180; p. 260.
Todd, George W., Omaha, Nebr. Artificial tooth. No. 1,014,348; Jan. 9; Sp. p. 2813; Gaz. vol. 174; p. 465.
Todd, George W., Omaha, Nebr. Artificial tooth. No. 1,016,456; Feb. 6; Sp. p. 505; Gaz. vol. 175; p. 77.
Todd, H. Stanley. (See Anderson, Emil, assignor.)
Todd, Henry C., Oak Park, and C. Mayr, Chicago, Ill., assignors to Chicago Fireproof Covering Co. Smoke-stack. No. 1,045,459; Nov. 26; Gaz. vol. 184; p. 931.
Todd, James T., Jacksonville, Fla. Rail-joint. No. 1,043,645; Nov. 5; Gaz. vol. 184; p. 213.
Todd, John H. (See Bolander, Aaron, assignor.)
Todd, John W. (See Fulson, Charles H., assignor.)
Todd, Libanus M., and C. G. Tiefel, assignors to G. W. Todd & Company, Rochester, N. Y. Check-protector. No. 1,030,690; June 25; Sp. p. 5927; Gaz. vol. 179; p. 1012.
Todd, Luther N. (See Malmgren. Todd, and Watson.)
Todd, Marquis J., assignor to Buffalo Pitts Company, Buffalo, N. Y. Dump-wagon. No. 1,020,524; Mar. 19; Sp. p. 3217; Gaz. vol. 176; p. 576.
Todd, William A., Point Pleasant, N. J. Machine for making building-stones. No. 1,027,935; May 28; Sp. p. 6251; Gaz. vol. 178; p. 1074.
Todisco, Michael, Brooklyn, N. Y. Aerial vehicle. No. 1,032,966; July 16; Gaz. vol. 180; p. 811.
Toelpe, Philipp, Magdeburg, Germany. Adjustable support for false work for floors. No. 1,031,209; July 2; Gaz. vol. 180; p. 128.
Toennes, Richard, Boonville, Mo. Automatic gasolene-dispenser. No. 1,020,856; Mar. 19; Sp. p. 3952; Gaz. vol. 176; p. 688.
Toens, August H., Indianapolis, Ind. Refrigerator-car. No. 1,030,944; July 2; Gaz. vol. 180; p. 32.
Toepfer, Charles, Milwaukee, Wis. Fishing-tackle. No. 1,041,376; Oct. 15; Gaz. vol. 183; p. 642.
Togna, Turillo R., London, England. Bottle-stopper for automatically measuring and delivering liquid. No. 1,036,381; Aug. 20; Gaz. vol. 181; p. 744.
Tokheim, John J., Cedar Rapids, Iowa. Rotary pump. No. 1,040,057; Oct. 1; Gaz. vol. 183; p. 128.
Tokheim, John J., assignor to The Tokheim Mfg. Company, Cedar Rapids, Iowa. Naphtha storing and pumping system. No. 1,040,463; Oct. 8; Gaz. vol. 183; p. 296.
Tokheim Mfg. Company, The. (See Tokheim, John J., assignor.)
Toledo Computing Scale Company, The. (See Church, Edmund S., assignor.)
Toledo Computing Scale Company. (See De Vilbiss, Allen, Jr., assignor.)
Toledo Computing Scale Company, The. (See Wetzel, Lewis C., assignor.)
Toledo Electric Welder Company, The. (See Pierce, Robert C., assignor.)
Toledo Electric Welder Company, The. (See Warren, Frank, assignor.)
Toledo Glass Company, The. (See Owens, Michael J., assignor.)
Toledo Machine & Tool Company, The. (See Seidel, Adolph H., assignor.)
Toledo Metal Furniture Company, The. (See Uhl, Joseph F. L., assignor.)
Toledo Parlor Furniture Company, The. (See Klopping, Adolph C., assignor.)
Toles, Justin K., Berkeley, Cal. Combined spool and cutter. No. 1,018,945; Feb. 27; Sp. p. 6004; Gaz. vol. 175; p. 1035.
Toles, Justin K., Berkeley, Cal. Combined container and cutter. No. 1,026,778; May 21; Sp. p. 3718; Gaz. vol. 178; p. 644.
Tolgen, Edward A., Minot, N. D. Rail-joint. No. 1,020,525; Mar. 19; Sp. p. 3218; Gaz. vol. 176; p. 576.
Tolhurst, Joseph, and A. Wait, Hamilton, Ontario, Canada. Gas-cock. No. 1,048,764; Dec. 31; Gaz. vol. 185; p. 1162.
Tolhurst Machine Works. (See Vincent and Croasdale, assignors.)
Toliver, Charles H., San Diego, Cal. Airship. No. 1,020,118; Mar. 12; Sp. p. 2372; Gaz. vol. 176; p. 405.
Toll, Niles C., Lathrop, Cal. Disappearing folding caster. No. 1,022,646; Apr. 9; Sp. p. 1891; Gaz. vol. 177; p. 330.
Tolles, F. I., East Toledo, Ohio. Combination fountain-pen. No. 1,042,726; Oct. 29; Gaz. vol. 183; p. 1164.
Tolman, Andrew L., Thorndike, assignor to Draper Company, Hopedale, Mass. Cloth-stop for looms. No. 1,017,273; Feb. 13; Sp. p. 2317; Gaz. vol. 175; p. 394.
Tolman, Joseph, Norwell, Mass. Chicken-brooder. No. 1,044,605; Nov. 19; Gaz. vol. 184; p. 605.
Tolsma, Reinder B. (See Matteson, Vernie, assignor.)
Tolson, James H., Claremore, Okla. Cellar-door. No. 1,033,214; July 23; Gaz. vol. 180; p. 935.
Toman, James. (See Rodehaver, Isaac H., assignor.)
Tomasowski, Janos, *et al.* (See Vitoszki, Mike, assignor.)
Tombeur, Joseph, Brussels, Belgium. Tap for acid-containers. No. 1,027,296; May 21; Sp. p. 4889; Gaz. vol. 178; p. 822.
Tominski, Theodor. (See Bingham and Tominski.)
Tomlin, Francis H., Haddonfield, N. J. Toy. No. 1,040,058; Oct. 1; Gaz. vol. 183; p. 129.
Tomlinson, Albert, assignor to John Hetherington and Sons Limited, Manchester, England. Combing-machine. No. 1,025,934; May 7; Sp. p. 1846; Gaz. vol. 178; p. 284.
Tomlinson, Charles E., Syracuse, N. Y. Beverage-dispensing machine. No. 1,026,635; May 21; Sp. p. 3381; Gaz. vol. 178; p. 557.
Tomlinson, Charles H., Mansfield, Ohio. Uncoupling means. No. 1,032,313; July 9; Gaz. vol. 180; p. 546.
Tomlinson, Clifford J., West Allis, assignor to Allis-Chalmers Company, Milwaukee, Wis. Pulverizer. No. 1,021,906; Apr. 2; Sp. p. 324; Gaz. vol. 177; p. 54.
Tomlinson, George H. (See Ewen and Tomlinson.)
Tomlinson, George H., Chicago, Ill., assignor to Standard Alcohol Company, New York, N. Y. Producing fermentable sugars from lignocellulose. No. 1,032,440; July 16; Gaz. vol. 180; p. 634.
Tomlinson, George H., Chicago, Ill., assignor to Standard Alcohol Company, New York, N. Y. Feeding material to digesters. No. 1,032,441; July 16; Gaz. vol. 180; p. 634.
Tomlinson, George H., Chicago, Ill., assignor to Standard Alcohol Company, New York, N. Y. Feeding material to digesters. No. 1,032,442; July 16; Gaz. vol. 180; p. 634.
Tomlinson, George H., Chicago, Ill., assignor to Standard Alcohol Company, New York, N. Y. Treating lignocellulose for recovering turpentine and sugar. No. 1,032,443; July 16; Gaz. vol. 180; p. 635.
Tomlinson, George H., Chicago, Ill., assignor to Standard Alcohol Company, New York, N. Y. Apparatus for treating lignocellulose for recovering turpentine and sugar. No. 1,032,444; July 16; Gaz. vol. 180; p. 635.
Tomlinson, George H., Chicago, Ill., assignor to Standard Alcohol Company, New York, N. Y. Apparatus for feeding materials to digesters. No. 1,032,445; July 16; Gaz. vol. 180; p. 635.
Tomlinson, George H., Chicago, Ill., assignor to Standard Alcohol Company, New York, N. Y. Apparatus for treating comminuted lignocellulose. No. 1,032,446; July 16; Gaz. vol. 180; p. 636.
Tomlinson, George H., Chicago, Ill., assignor to Standard Alcohol Company, New York, N. Y. Treating comminuted lignocellulose. No. 1,032,447; July 16; Gaz. vol. 180; p. 636.
Tomlinson, George H., Chicago, Ill., assignor to Standard Alcohol Company, New York, N. Y. Producing fermentable sugars from cellulosic materials. No. 1,032,448; July 16; Gaz. vol. 180; p. 636.
Tomlinson, George H., Chicago, Ill., assignor to Standard Alcohol Company, New York, N. Y. Apparatus for treating lignocellulose. No. 1,032,449; July 16; Gaz. vol. 180; p. 637.
Tomlinson, George H., Chicago, Ill., assignor to Standard Alcohol Company, New York, N. Y. Producing fermentable sugars. No. 1,032,450; July 16; Gaz. vol. 180; p. 637.
Tomlinson, Royal D., assignor to Allis-Chalmers Company, Milwaukee, Wis. Barometric condenser. No. 1,036,031; Aug. 20; Gaz. vol. 181; p. 618.
Tomlinson, Thomas L., Oakland, and I. O. Crosscup, San Francisco, Cal. Automatic mixing-valve. No. 1,037,135; Aug. 27; Gaz. vol. 181; p. 1028.
Tommasini, Antonio, New York, N. Y. Electrolytic cell. No. 1,035,060; Aug. 6; Gaz. vol. 181; p. 218.
Tommasini, Antonio, New York N. Y., assignor of one-half to M. E. Thornton, Hickory, N. C. Hydro-electric smelting-furnace. No. 1,048,603; Dec. 31; Gaz. vol. 185; p. 1105.
Tompkin, Albert, Bulwell, Nottingham, England. Reservoir-brush. No. 1,047,338; Dec. 17; Gaz. vol. 185; p. 608.

Alphabetical list of patentees—Continued.

Tompkins, Harry J., Berkeley, Cal. Device for planting seedlings. No. 1,026,331; May 14; Sp. p. 2743; Gaz. vol. 178; p. 458.
Tompkins, Herbert S. (See Lucas, Howard M., assignor.)
Tompkins, John D., Valatie, N. Y. Drying and bleaching. No. 1,037,370; Sept. 3; Gaz. vol. 182; p. 64.
Toms, George E., *et al.* (See Frey, Sigmund, assignor.)
Toms, George E., and T. P. Blair, San Diego, Cal. Forming hinges. No. 1,035,661; Aug. 13; Gaz. vol. 181; p. 457.
Toms, George E., and T. P. Blair, San Diego, assignors of one-third to S. Frey, Los Angeles, Cal. Gravity-hinge. No. 1,039,216; Sept. 24; Gaz. vol. 182; p. 775.
Tone, Frank J., Niagara Falls, N. Y. Reduction of refractory ores. No. 1,028,151; June 4; Sp. p. 160; Gaz. vol. 179; p. 24.
Tone, Frank J., Niagara Falls, N. Y. Reduction of boron compounds. No. 1,035,919; Aug. 20; Gaz. vol. 181; p. 581.
Tone, Frank J., Niagara Falls, N. Y. Producing silicon carbid. No. 1,044,295; Nov. 12; Gaz. vol. 184; p. 467.
Tone, Frank J., assignor to The Carborundum Company, Niagara Falls, N. Y. Silicon carbid. No. 1,013,700; Jan. 2; Sp. p. 1356; Gaz. vol. 174; p. 211.
Tone, Frank J., assignor to The Carborundum Company, Niagara Falls, N. Y. Manufacture of silicon carbid. No 1,013,701; Jan. 2; Sp. p. 1357; Gaz. vol. 174; p. 211.
Tone, Frank J., assignor to The Carborundum Company, Niagara Falls, N. Y. Light-refracting material. No. 1,015,598; Jan. 23; Sp. p. 5538; Gaz. vol. 174; p. 948.
Tone, Frank J., assignor to The Carborundum Company, Niagara Falls, N. Y. Silicon products. No. 1,028,303; June 4; Sp. p. 523; Gaz. vol. 179; p. 77.
Tone, Frank J., assignor to The Carborundum Company, Niagara Falls, N. Y. Refractory material. No. 1,042,844; Oct. 29; Gaz. vol. 183; p. 1204.
Tone, Frank J., and T. B. Allen, assignors to The Carborundum Company, Niagara Falls, N. Y. Manufacturing crystalline alumina. No. 1,044,296; Nov. 12; Gaz. vol. 184; p. 468.
Tong, George F., Chicago, Ill. Water-closet connection. No. 1,041,905; Oct. 22; Gaz. vol. 183; p. 857.
Tong, Thomas T., Gordon, Nebr. Metallic railway-tie. No. 1,024,299; Apr. 23; Sp. p. 5439; Gaz. vol. 177; p. 953.
Tong, William W., Clarksville, Cal. Swinging gate. No. 1,041,906; Oct. 22; Gaz. vol. 183; p. 857.
Tongue, Frank H., Cedarville, N. J. Copying-iron. No. 1,036,165; Aug. 20; Gaz. vol. 181; p. 667.
Tonini, August, Grandview, Ind. Feed-box. No. 1,015,221; Jan. 16; Sp. p. 4681; Gaz. vol. 174; p. 790.
Tönjes, Carl, Delmenhorst, Germany. Adjusting device for turnable parts. No. 1,015,854; Jan. 30; Sp. p. 6083; Gaz. vol. 174; p. 1060.
Tonti, Michael, Pittsburgh, Pa. Window-shade fixture. No. 1,025,597; May 7; Sp. p. 1100; Gaz. vol. 178; p. 170.
Toohey-Doolittle Company, The. (See Toohey, Patrick W., assignor.)
Toohey, James W., Baltimore, Md. Window-screen. No. 1,034,937; Aug. 6; Gaz. vol. 181; p. 179.
Toohey, Patrick W., assignor to The Toohey-Doolittle Company, Colorado Springs, Colo. Coaster-brake. No. 1,025,598; May 7; Sp. p. 1101; Gaz. vol. 178; p. 171.
Tool, John W., T. F. Linegar, and J. G. Williams, Seattle, Wash. Washing device. No. 1,017,606; Feb. 13; Sp. p. 2999; Gaz. vol. 175; p. 506.
Toole, William B. (See Le Doyen, Alfred A., assignor.)
Toomey, Eugene L. (See Hamblin, Stephen M. and G. N., assignors.)
Toomey, Thomas, Scranton, Pa. Tire. No. 1,037,686; Sept. 3; Gaz. vol. 182; p. 172.
Tootell, Charlie, Melbourne, Victoria, Australia. Contrivance to provide for the free exit of flies from buildings and to prevent their reëntrance. No. 1,046,902; Dec. 10; Gaz. vol. 185; p. 423.
Toothaker, Bert A. (See Hickey and Toothaker.)
Tope, Orlan E., Jackson, Ohio. Jack. No. 1,030,945; July 2; Gaz. vol. 180; p. 33.
Topham, George. (See Keyser and Topham.)
Topham, Laurence E. (See Gordon and Topham.)
Topliff, George W. (See Bornmann and Topliff.)
Topliff, George W., and C. Bornmann, assignors to Ansco Company, Binghamton, N. Y. Photographic camera. No. 1,034,045; July 30; Gaz. vol. 180; p. 1242.
Topper, John M., and G. H. Chaplain, Leavenworth, Kans. Auxiliary steering device. No. 1,020,465; Mar. 19; Sp. p. 3079; Gaz. vol. 176; p. 557.
Topping Brothers. (See Crabb, Charles L., assignor.)
Topping, Henrietta W., Chicago, Ill. Cleat for securing roofing. No. 1,018,946; Feb. 27; Sp. p. 6006; Gaz. vol. 175; p. 1036.
Topping, John A., Chicago, Ill. Nailing cleat and strip. No. 1,048,604; Dec. 31; Gaz. vol. 185; p. 1106.
Torbensen Gear and Axle Company. (See Torbensen, Viggo V., assignor.)
Torbensen, Viggo V., assignor, by mesne assignments, to Torbensen Gear and Axle Company, Bloomfield, N. J. Motor-vehicle. No. 1,032,517; July 16; Gaz. vol. 180; p. 660.
Torchio, Philip. (See Murray and Torchio.)
Torkington, Alfred W., Purley, assignor to Torkington Tires (Patent Syndicate) Limited, London, England. Elastic tire. No. 1,024,042; Apr. 23; Sp. p. 4869; Gaz. vol. 177; p. 863.
Torkington Tires (Patent Syndicate) Limited. (See Torkington, Alfred W., assignor.)
Torluemke, Herman, St. Louis, Mo. Toy. No. 1,042,294; Oct. 22; Gaz. vol. 183; p. 984.
Tormin, Egmont M., Brookline, Mass., assignor to Holtzer-Cabot Electric Company. Pole-changer. No. 1,024,463; Apr. 23; Sp. p. 5791; Gaz. vol. 177; p. 1006.
Torney, John H. (See Snyder and Torney.)
Torney, Wellington A., Seattle, Wash. Fence-post. No. 1,037,687; Sept. 3; Gaz. vol. 182; p. 172.
Torossian, Bedros R., West Hoboken, N. J. Water-closet. No. 1,014,787; Jan. 16; Sp. p. 3784; Gaz. vol. 174; p. 643.
Torrance, William, Abbnott, Saskatchewan, Canada. Sod-cutter. No. 1,013,332; Jan. 2; Sp. p. 541; Gaz. vol. 174; p. 86.
Torres, Jose, *et al.*, trustees. (See Klett, Henry G., assignor.)
Torrey and Co., J. R. (See Harthan, Warren P., assignor.)
Torrey, Frank A., assignor of one-half to C. B. Lazette, Toledo, Ohio. Cue. No. 1,048,007; Dec. 24; Gaz. vol. 185; p. 865.
Torrey, Margaret E., St. Louis, Mo. Advertising device. No. 1,045,642; Nov. 26; Gaz. vol. 184; p. 996.
Torsion Balance Company, The. (See Münzner, Max, assignor.)
Tosco, Agostino, and A. Camino, San Francisco, Cal. Engine. No. 1,024,379; Apr. 23; Sp. p. 5573; Gaz. vol. 177; p. 977.
Toso, Marcellino, San Bruno, assignor of forty one-hundredths to P. H. Patterson, San Francisco, Cal. Tire. No. 1,038,235; Sept. 10; Gaz. vol. 182; p. 387.
Toth, Steve, and J. Vecsei, Windber, Pa. Rendering vessel. No. 1,042,845; Oct. 29; Gaz. vol. 183; p. 1204.
Tothill, Alexander T. D., Davey, Nebr. Gate. No. 1,025,725; May 7; Sp. p. 1369; Gaz. vol. 178; p. 213.
Tothill, William S., Chicago, Ill. High-jump standard. No. 1,033,964; July 30; Gaz. vol. 180; p. 1213.
Tothill, William S., Chicago, Ill. Wear-compensating sleeve. No. 1,043,171; Nov. 5; Gaz. vol. 184; p. 45.
Totten, Robert C., Pittsburgh, Pa. Treating car-wheels. No. 1,016,457; Feb. 6; Sp. p. 506; Gaz. vol. 175; p. 78.
Totterdale, John W. (See Amsden, Thomas G., assignor.)
Tottle & Co., Wm. A. (See McMillan, Hugh P., assignor.)
Tourangeau, Joseph R., Windsor, Ontario, Canada. Fuel-oil filter. No. 1,028,304; June 4; Sp. p. 524; Gaz. vol. 179; p. 77.
Tourtel, John M., London, England. Adding and printing machine. No. 1,021,588; Mar. 26; Sp. p. 5504; Gaz. vol. 176; p. 989.
Tourtelot, E. C. (See Johnson, Gustavus J., assignor.)
Tous, Gabriel, Montevideo, Uruguay. Barber's cabinet. No. 1,026,478; May 14; Sp. p. 3067; Gaz. vol. 178; p. 505.
Tousley, Nelson E. (See Duncan and Tousley.)
Tóváros, Jules F. de. (See Jellinek and Tóváros.)
Toward, Ralph, Russellton, Pa. Harness. No. 1,026,723; May 21; Sp. p. 3597; Gaz. vol. 178; p. 625.
Towell, Arthur H. (See Towell, Jesse C., assignor.)
Towell, Jesse C., assignor of one-half to A. H. Towell, Muncie, Ind. Cotton-chopper. No. 1,025,935; May 7; Sp. p. 1848; Gaz. vol. 178; p. 284.
Towell, Thomas H., assignor to The United States Phonograph Company, Cleveland, Ohio. Horn for talking-machines. No. 1,024,108; Apr. 23; Sp. p. 5018; Gaz. vol. 177; p. 887.
Towell, Thomas H., assignor to The United States Phonograph Company, Cleveland, Ohio. Horn for talking-machines. No. 1,033,215; July 23; Gaz. vol. 180; p. 935.
Tower, Andrew J., Mendota, Ill. Soil-pulverizing machine. No. 1,041,199; Oct. 15; Gaz. vol. 183; p. 582.
Tower, Edward, Salem, Mass. Lifter for stove-lids. No. 1,014,788; Jan. 16; Sp. p. 3785; Gaz. vol. 174; p. 643.
Towery, Wylye G., Alamogordo, N. Mex. Carriage-whip. No. 1,013,240; Jan. 2; Sp. p. 331; Gaz. vol. 174; p. 53.
Towle, Elmer E., Richmond, Ind., assignor to The American Seeding Machine Company, Springfield, Ohio. Seeding-machine. No. 1,028,403; June 4; Sp. p. 744; Gaz. vol. 179; p. 112.
Towle, George C., Dayton, Ohio, assignor to The Pay-Within Car Sales Company, Philadelphia, Pa. Prepayment-street-car door. No. 1,015,252; Jan. 16; Sp. p. 4757; Gaz. vol. 174; p. 801.
Towle, Wilkin, *et al.* (See French, Francis J., assignor.)
Towne, John, Springfield, Mass. Fish-rod holder. No. 1,025,657; May 7; Sp. p. 1231; Gaz. vol. 178; p. 190.
Towne, John L., Haverhill, and J. W. O'Neill, Lynn, Mass. Last. No. 1,033,041; July 16; Gaz. vol. 180; p. 837.
Towne, Joseph M., East Orange, N. J., assignor to The Safety Car Heating & Lighting Company. Hose-coupling. No. 1,032,519; July 16; Gaz. vol. 180; p. 660.
Towne, Joseph M., East Orange, N. J., assignor to Safety Car Heating & Lighting Company. Coupling-gasket. No. 1,041,907; Oct. 22; Gaz. vol. 183; p. 857.

Alphabetical list of patentees—Continued.

Townsend, Charles E., assignor to said Townsend and O. L. Jarrell, trustees, Billings, Mont. Wrench. No. 1,035,921; Aug. 20; Gaz. vol. 181; p. 582.
Townsend, Charles E., assignor to said Townsend and O. L. Jarrell, trustees, Billings, Mont. Wrench. No. 1,040,464; Oct. 8; Gaz. vol. 183; p. 296.
Townsend, David, assignor to Cornell Economizer Company, Philadelphia, Pa. Smoke-consuming device. No. 1,044,297; Nov. 12; Gaz. vol. 184; p. 468.
Townsend, Hugh S. (See Morgan, Hubert W., assignor.)
Townsend, James R. (See Lee, Clarence H., assignor.)
Townsend, James R. (See White and Duryea, assignors.)
Townsend, John L., Winfred, S. D. Flexible harrow. No. 1,029,154; June 11; Sp. p. 2355; Gaz. vol. 179; p. 401.
Townsend, Nelson Y., Dresden, N. Y. Collapsible bed. No. 1,040,815; Oct. 8; Gaz. vol. 183; p. 419.
Townsend, W. P., *et al.*, administrators. (See Logan, Lavalette L.) (Reissue.)
Townsend, William W., and W. L. Gosselin, Rutland, Vt., assignors to C. G. Koppitz, Youngstown, Ohio. Boot and shoe clamping device. No. 1,013,627; Jan. 2; Sp. p. 1165; Gaz. vol. 174; p. 185.
Townson, Thomas, Philadelphia, Pa. Automatic spark-timing mechanism for internal-combustion engines. No. 1,025,336; May 7; Sp. p. 509; Gaz. vol. 178; p. 80.
Towson, Morris S. (See Warner, Worcester R., assignor.)
Towson, Morris S., Cleveland, Ohio. Automobile-chassis. No. 1,046,681; Dec. 10; Gaz. vol. 185; p. 347.
Toyoda, Sakichi, Nagoya, Japan. Shuttle-changing loom. No. 1,018,089; Feb. 20; Sp. p. 4133; Gaz. vol. 175; p. 712.
Tozier, Charles C., Skowhegan, Me. Automatic cut-off for boiler-feeders. No. 1,013,463; Jan. 2; Sp. p. 816; Gaz. vol. 174; p. 130.
Tözsér, John, assignor of one-third to S. Konyha and one-third to L. Imrecze, New York, N. Y. Elevator safety device. No. 1,024,300; Apr. 23; Sp. p. 5440; Gaz. vol. 177; p. 953.
Trabue, Luther, Girard, Ill. Block-dropping mechanism for baling-presses. No. 1,013,628; Jan. 2; Sp. p. 1167; Gaz. vol. 174; p. 185.
Trabue, Luther, Girard, Ill. Baling-press. No. 1,014,615; Jan. 9; Sp. p. 3338; Gaz. vol. 174; p. 554.
Trabue, Luther, Girard, assignor to Belleville Baler Company, Belleville, Ill. Baling-press. No. 1,028,404; June 4; Sp. p. 749; Gaz. vol. 179; p. 113.
Trabue, Luther, and H. F. Owen, Delaware, Ohio. Hay-press. No. 1,013,464; Jan. 2; Sp. p. 819; Gaz. vol. 174; p. 131.
Tracey, Jeremiah F. (See Foley and Tracey.)
Trachsler, Heinrich, Zürich, Switzerland. Cement-furnace. No. 1,042,727; Oct. 29; Gaz. vol. 183; p. 1164.
Track, O. H. (See Baker, Frank C., assignor.)
Tracy, Arza R., Pateros, Wash. Automatic gas shut-off. No. 1,019,201; Mar. 5; Sp. p. 432; Gaz. vol. 176; p. 69.
Tracy, Edward A., Boston, Mass. Paving-block. No. 1,017,706; Feb. 20; Sp. p. 3210; Gaz. vol. 175; p. 577.
Tracy, Frank W., Chicago, Ill. Casting apparatus. No. 1,017,707; Feb. 20; Sp. p. 3211; Gaz. vol. 175; p. 577.
Tracy, Hayden H. (See Boyrie, Harry E., assignor.)
Tracy, Hayden H., Berkeley, and H. E. Boyrie, San Francisco, Cal. Steam-boiler structure. No. 1,022,647; Apr. 9; Sp. p. 1892; Gaz. vol. 177; p. 330.
Tracy, Hayden H., Berkeley, and H. E. Boyrie, San Francisco, Cal. Manufacture of steam-boilers. No. 1,025,337; May 7; Sp. p. 510; Gaz. vol. 178; p. 80.
Tracy, William H. H., Troy, N. Y. Drying and ironing machine. No. 1,017,349; Feb. 13; Sp. p. 2476; Gaz. vol. 175; p. 420.
Traiser, Otto T. (See Fee and Traiser.)
Tramill, Charles and J. H., Kansas City, Mo. Portable sectional floor. No. 1,045,219; Nov. 26; Gaz. vol. 184; p. 846.
Tramill, James H. (See Tramill, Charles and J. H.)
Transom Draft Gear Company. (See Pflager, Harry M., assignor.)
Transom Draft Gear Company. (See Westlake, Charles T., assignor.)
Transue, Levi B., Hazleton, Pa. Stove attachment. No. 1,036,382; Aug. 20; Gaz. vol. 181; p. 744.
Trapp, James, Valley Falls, Kans. Alarm for incubators and brooders. No. 1,037,084; Aug. 27; Gaz. vol. 181; p. 1011.
Traum, Charles C., Lanark, Ill. Door-check. No. 1,015,655; Jan. 23; Sp. p. 5659; Gaz. vol. 174; p. 967.
Traut, George W. (See Hine, Henry C., assignor.)
Traut and Hine Manufacturing Company. (See Prentice, George E., assignor.)
Trautman, Cornelius V. (See Holmes and Trautman.)
Trautman, Ira F., New York, N. Y. Making cores for automobile-tires. No. 1,041,377; Oct. 15; Gaz. vol. 183; p. 642.
Trautmann & Mayer. (See Deinlein, Max, assignor.)
Trautvetter, William G., Paterson, N. J. Woven fabric. No. 1,033,843; July 30; Gaz. vol. 180; p. 1169.
Travalled, Charles, New Rochelle, N. Y. Floor and ceiling construction. No. 1,046,903; Dec. 10; Gaz. vol. 185; p. 423.
Traver, Walter P., and L. F. Theis, San Francisco, Cal. Cable-armor joint. No. 1,035,499; Aug. 13; Gaz. vol. 181; p. 402.
Travers, Thomas G., Iron Ridge, Wis. Excavator. No. 1,031,402; July 2; Gaz. vol. 180; p. 194.
Travers, William E., assignor of one-fourth to J. D. Hahn, Oakland, Cal. Revolving razor. No. 1,014,187; Jan. 9; Sp. p. 2428; Gaz. vol. 174; p. 407.
Travers, Wm. J. (See Collins, Jacob, assignor.)
Traverse City Chair Company. (See Greilick, Clarence L., assignor.)
Travilla, James C. (See Sheridan, Andrew W., assignor.)
Travis, Clarence C., and A. D. Antoine, Chicago, Ill.; said Antoine assignor to said Travis. Check-controlled mechanism. No. 1,043,374; Nov. 5; Gaz. vol. 184; p. 118.
Travis, Clarence C., B. M. Davis, and A. D. Antoine, Chicago, Ill.; said Davis and Antoine assignors to said Travis. Check-controlled mechanism. No. 1,024,537; Apr. 30; Sp. p. 6005; Gaz. vol. 177; p. 1068.
Travis, Don C., Kenosha, Wis. Metallic spring structure. No. 1,048,112; Dec. 24; Gaz. vol. 185; p. 900.
Travis, John M., St. Louis, Mo. Dispensing-fount. No. 1,030,353; June 25; Sp. p. 5003; Gaz. vol. 179; p. 891.
Travis, Walter J., Yonkers, N. Y. Dough mixing and kneading machine. No. 1,041,908; Oct. 22; Gaz. vol. 183; p. 857.
Traylor, Bruce W., New York, N. Y. Filter apparatus. No. 1,029,155; June 11; Sp. p. 2356; Gaz. vol. 179; p. 402.
Traylor, Bruce W., New York, N. Y. Filter. No. 1,037,561; Sept. 3; Gaz. vol. 182; p. 130.
Traylor, Bruce W., New York, N. Y., assignor to Traylor Engineering & Manufacturing Company. Ore-crusher. No. 1,035,273; Aug. 13; Gaz. vol. 181; p. 323.
Traylor, Bruce W., New York, N. Y., assignor to Traylor Engineering and Manufacturing Co. Mechanism for relative reciprocation of rotary members. No. 1,040,465; Oct. 8; Gaz. vol. 183; p. 297.
Traylor, Bruce W., New York, N. Y., assignor to Traylor Engineering and Manufacturing Co. Gyratory crusher. No. 1,047,859; Dec. 17; Gaz. vol. 185; p. 789.
Traylor Engineering & Manufacturing Company. (See Traylor, Bruce W., assignor.)
Traylor, Stanley M., Petersburg, Va. Toy aeroplane. No. 1,033,638; July 23; Gaz. vol. 180; p. 1075.
Traylor, Woodliff B., Goldsboro, N. C. Hub-wrench. No. 1,045,914; Dec. 3; Gaz. vol. 185; p. 41.
Trayne, John H., *et al.* (See Chandler, Daniel L., assignor.)
Treadgold, George H., Port Huron, Mich. Pneumatic wheel. No. 1,038,687; Sept. 17; Gaz. vol. 182; p. 579.
Treahy, Bartholomew T., Detroit, Mich. Transforming and transposing device for automatic instruments. No. 1,018,791; Feb. 27; Sp. p. 5692; Gaz. vol. 175; p. 984.
Treat, Francis H., Cleveland, Ohio. Furnace-feeding apparatus. No. 1,014,789; Jan. 16; Sp. p. 3786; Gaz. vol. 174; p. 643.
Treat, Francis H., Cleveland, Ohio. Gas-producer mechanism. No. 1,017,025; Feb. 13; Sp. p. 1761; Gaz. vol. 175; p. 307.
Treat, Francis H., Cleveland, Ohio. Means for indicating the deflation of pneumatic tires. No. 1,038,801; Sept. 17; Gaz. vol. 182; p. 619.
Treber, Reuben, Portland, Oreg. Cash-register. No. 1,030,495; June 25; Sp. p. 5320; Gaz. vol. 179; p. 947.
Trecker, Theodore. (See Kearney and Trecker.)
Tredwell, Charles A., assignor to The Horton Manufacturing Company, Bristol, Conn. Fishing-rod. No. 1,013,333; Jan. 2; Sp. p. 542; Gaz. vol. 174; p. 86.
Tree, Eber B., Chicago, Ill. Steam-joint packing. No. 1,036,032; Aug. 20; Gaz. vol. 181; p. 618.
Treece, William F., assignor to Compress Pad & Saddle Company, Statesville, N. C. Apparatus for making harness-saddles. No. 1,029,245; June 11; Sp. p. 2551; Gaz. vol. 179; p. 432.
Treffers, Pieter. (See Roth, Samuel, assignor.)
Trefry, Fredrick W., Pittsburgh, Pa. Switch for alternating-current machines. No. 1,038,990; Sept. 17; Gaz. vol. 182; p. 683.
Trefz, James G. (See Barbre and Trefz.)
Treganza, Howard J., assignor to The Ansonia Clock Company, New York, N. Y. Clock. No. 1,022,213; Apr. 2; Sp. p. 977; Gaz. vol. 177; p. 157.
Treharne, Gwilym H., Canton, Ohio. Railway-tie. No. 1,036,749; Aug. 27; Gaz. vol. 181; p. 900.
Treiber, Theodore R., assignor to The Kansas City Billiard Table Manufacturing Company, Kansas City, Mo. Cue-rack. No. 1,047,339; Dec. 17; Gaz. vol. 185; p. 608.
Tremaine, Edward G., Hackensack, assignor to Automatic Weighing Machine Company, Newark, N. J. Package-filling apparatus. No. 1,023,343; Apr. 16; Sp. p. 3409; Gaz. vol. 177; p. 608.
Trémolières, Gustave H., Neuilly-sur-Seine, France. Piston lubrication. No. 1,030,213; June 18; Sp. p. 4667; Gaz. vol. 179; p. 802.
Tremper, Louise M., St. Louis, Mo. Orchard-heater. No. 1,038,028; Sept. 10; Gaz. vol. 182; p. 319.
Trenaman Dental Manufacturing Company. (See Trenaman, John V., assignor.)

Alphabetical list of patentees—Continued.

Trenaman, John V., assignor to Trenaman Dental Manufacturing Company, New York, N. Y. Cord or cable supporting bracket. No. 1,026,186; May 14; Sp. p. 2415; Gaz. vol. 178; p. 406.
Trench, Harry G., Springfield, Mass. Shackle for vehicle-springs. No. 1,042,173; Oct. 22; Gaz. vol. 183; p. 945.
Trent, George W., Lansing, Kans. Combined rail-joint and nut-lock. No. 1,019,928; Mar. 12; Sp. p. 1980; Gaz. vol. 176; p. 342.
Trent, Lamartine C., Los Angeles, Cal. Classifier. No. 1,041,909; Oct. 22; Gaz. vol. 183; p. 858.
Trent, Lamartine C., Los Angeles, Cal. Filtering apparatus. No. 1,042,295; Oct. 22; Gaz. vol. 183; p. 985.
Trent, Walter E. (See Symmes and Trent.)
Trenton, Albert E., San Antonio, Tex. Revolving case and account-register. No. 1,030,691; June 25; Sp. p. 5932; Gaz. vol. 179; p. 1013.
Trenton Engine Co. (See Reeves, Clifton, assignor.)
Trenzen, Carl, Koeln-Braunsfeld, and E. Haagn; said Haagn assignor to W. C. Heraeus Gesellschaft mit Beschränkter Haftung, Hanau, Germany. Furnace for sintering metallic filaments for electric incandescent lamps. No. 1,028,832; June 4; Sp. p. 1641; Gaz. vol. 179; p. 256.
Trescott, Charles B., assignor of one-half to J. Allerdice, Indianapolis, Ind. Curing meat. No. 1,016,656; Feb. 6; Sp. p. 966; Gaz. vol. 175; p. 146.
Tresidder, John J., New York, assignor to American Column Company, Brooklyn, N. Y. Cap and base for fireproof columns. No. 1,019,561; Mar. 5; Sp. p. 1258; Gaz. vol. 176; p. 187.
Tresider, John. (See Plummer and Tresider.)
Tresselt, Alvin, Passaic, N. J. Door-lock. No. 1,032,034; July 9; Gaz. vol. 180; p. 452.
Tressler, Charles J. (See Tressler, John H. and C. J.)
Tressler, John H. and C. J., Glencoe, Pa. Rail-joint. No. 1,022,279; Apr. 2; Sp. p. 1100; Gaz. vol. 177; p. 176.
Treude, Fritz, Berlin, Germany. Seat. No. 1,028,152; June 4; Sp. p. 161; Gaz. vol. 179; p. 25.
Trevisan, Richard, Baltimore, Md. Life-saving device. No. 1,029,729; June 18; Sp. p. 3618; Gaz. vol. 179; p. 637.
Trew, John W., and C. McGaughey, Staunton, Ill. Automatic catching device. No. 1,025,034; Apr. 30; Sp. p. 7060; Gaz. vol. 177; p. 1241.
Trew, William H., Edgewater, Colo. Portable scaffold. No. 1,043,172; Nov. 5; Gaz. vol. 184; p. 46.
Trewent, Francis J., and W. E. Proctor, London, England. Apparatus for ejecting ashes and other refuse from ships. No. 1,014,921; Jan. 16; Sp. p. 4085; Gaz. vol. 174; p. 690.
Trewhella, William, Trentham, Victoria, Australia. Snatch-block. No. 1,022,569; Apr. 9; Sp. p. 1720; Gaz. vol. 177; p. 304.
Trexler, George W., Pittsburgh, assignor of one-half to H. Sonnenberg, Turtle Creek, Pa. Bottle-closure. No. 1,024,917; Apr. 30; Sp. p. 6841; Gaz. vol. 177; p. 1201.
Tribe, George T., and J. M. Bemis, Worcester, Mass. Automatic headlight. No. 1,028,153; June 4; Sp. p. 162; Gaz. vol. 179; p. 25.
Trible, Arthur, Wilmerding, assignor of one-half to L. W. Vannear, Wilkinsburg, Pa. Trolley. No. 1,044,298; Nov. 12; Gaz. vol. 184; p. 468.
Trick, William C., Mount Vernon, Ohio. Bath-cushion. No. 1,039,334; Sept. 24; Gaz. vol. 182; p. 817.
Trickle, Ralph E., *et al.* (See Jernigan, Lee H., assignor.)
Trickle, Ross H., Newark, Ohio. Combined registering and supporting cabinet. No. 1,048,605; Dec. 31; Gaz. vol. 185; p. 1106.
Triggs, James M., assignor to Majestic Furnace and Foundry Company, Huntington, Ind. Chute. No. 1,035,662; Aug. 13; Gaz. vol. 181; p. 457.
Trill, William L., Corry, Pa. Continuous indicator for engines. No. 1,028,154; June 4; Sp. p. 163; Gaz. vol. 179; p. 25.
Trill, William L., Corry, Pa. Continuous indicator for engines. No. 1,028,155; June 4; Sp. p. 171; Gaz. vol. 179; p. 26.
Trilling, Hugo, Sheboygan, Wis. Christmas-tree holder. No. 1,040,593; Oct. 8; Gaz. vol. 183; p. 343.
Trimbath, Abraham L., Bellaire, Ohio. Wrench. No. 1,016,049; Jan. 30; Sp. p. 6500; Gaz. vol. 174; p. 1131.
Trimble, Porter, Eureka, Cal. Reversible plow. No. 1,027,451; May 28; Sp. p. 5202; Gaz. vol. 178; p. 912.
Trimble, Thomas B., *et al.* (See Hazelip, Edwin, assignor.)
Trimmer, Frank W. (See Macklin, Trimmer, and Harbison.)
Trimont Manufacturing Company. (See Vinton, John H., assignor.)
Trinks, Charles L. W., Pittsburgh, Pa. Barometric condenser. No. 1,028,156; June 4; Sp. p. 174; Gaz. vol. 179; p. 26.
Trinks, Charles L. W., Pittsburgh, Pa. Barometric condenser. No. 1,028,157; June 4; Sp. p. 177; Gaz. vol. 179; p. 26.
Trinks, Franz, Brunswick, Germany. Calculating-machine. No. 1,022,280; Apr. 2; Sp. p. 1102; Gaz. vol. 177; p. 177.
Trinks, Franz, Brunswick, Germany. Calculating-machine. No. 1,039,614; Sept. 24; Gaz. vol. 182; p. 915.
Trinks, Franz, Brunswick, Germany. Calculating-machine. No. 1,040,059; Oct. 1; Gaz. vol. 183; p. 129.
Trinks, Franz, and C. Schaller, Brunswick, Germany. Calculating-machine. No. 1,038,464; Sept. 10; Gaz. vol. 182; p. 468.
Triplett, Hugh L., Fort Wayne, Ind. Automatic road-map for automobiles. No. 1,039,848; Oct. 1; Gaz. vol. 183; p. 60.
Triplex Mfg. Co. (See Zietlow, Paul F., assignor.)
Triplex Tire Company. (See Allen, Sherman T., assignor.)
Tripp, Claude O. (See Snook and Tripp.)
Tripp, Eliphalet A., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Heel-building machine. No. 1,025,551; May 7; Sp. p. 999; Gaz. vol. 178; p. 154.
Tripp, Lewis J., Mesick, Mich. Drying-kiln. (Reissue.) No. 13,372; Feb. 20; Sp. p. 4795; Gaz. vol. 175; p. 821.
Triquet, Paul G., Paris, France. Apparatus for sterilizing liquids by means of ultra-violet rays. No. 1,030,692; June 25; Sp. p. 5934; Gaz. vol. 179; p. 1013.
Trisler, Samuel E., Dayton, Ohio. Radiator. No. 1,013,973; Jan. 9; Sp. p. 1978; Gaz. vol. 174; p. 335.
Tritle, John F., Schenectady, N. Y., assignor to General Electric Company. Selective alternating-direct-current system. No. 1,028,405; June 4; Sp. p. 752; Gaz. vol. 179; p. 113.
Triumph Couch Bed Co. (See Hammond, William P., assignor.)
Triumph Electric Company, The. (See Mitchell, Clarence C., assignor.)
Triumph Voting Machine Company. (See Abbott, Charles C., assignor.)
Tröbs, Johann F. C. M., Harburg-on-the-Elbe, assignor to H. Freudenthal, Hamburg, Germany. Superphosphate-chamber and means for emptying same. No. 1,013,334; Jan. 2; Sp. p. 544; Gaz. vol. 174; p. 87.
Troeger, John W., La Grange, Ill. Method of and apparatus for forming roof-shingles. No. 1,014,424; Jan. 9; Sp. p. 2965; Gaz. vol. 174; p. 492.
Trog, Carl, assignor to Ankerwerke A. G. vormals Hengstenberg & Co., Bielefeld, Germany. Cash-register. No. 1,027,160; May 21; Sp. p. 4615; Gaz. vol. 178; p. 774.
Tröger, Richard, Charlottenburg, Germany, assignor to General Electric Company. Means for regulating centrifugal compressors. No. 1,041,529; Oct. 15; Gaz. vol. 183; p. 692.
Trojan, Frank, New Bedford, Mass. Hat-pin-point protector. No. 1,015,099; Jan. 16; Sp. p. 4461; Gaz. vol. 174; p. 751.
Troll, Harry, administrator. (See Ressencourt, Eugène G.)
Trombley, George M., Wilmore, Pa. Curtain-pole. No. 1,018,852; Feb. 27; Sp. p. 5812; Gaz. vol. 175; p. 1004.
Trommer, Carl, New York, N. Y. Bracelet. No. 1,048,234; Dec. 24; Gaz. vol. 185; p. 941.
Tromsness, Olendo, Minneapolis, Minn. Composition of matter used for cleaning gun-barrels. No. 1,036,383; Aug. 20; Gaz. vol. 181; p. 744.
Trood, Samuel, assignor to J. H. Dale, New York, N. Y. Electric chandelier. No. 1,035,061; Aug. 6; Gaz. vol. 181; p. 219.
Tropenas, Alexandre, Montelimar, France, assignor to Tropenas Converter Company, New York, N. Y. Converter. No. 1,013,702; Jan. 2; Sp. p. 1358; Gaz. vol. 174; p. 211.
Tropenas Converter Company. (See Tropenas, Alexandre, assignor.)
Tropp, Bernhard, assignor to W. H. Laird, New York, N. Y. Self-heating soldering-iron. No. 1,045,343; Nov. 26; Gaz. vol. 184; p. 890.
Tropp, Willy. (See Scholl and Tropp.)
Troppman, Charles J., Chicago, Ill., assignor to F. A. Hardy & Company. Binocular magnifier. No. 1,033,965; July 30; Gaz. vol. 180; p. 1213.
Troppman, Charles J., Chicago, Ill., assignor to F. A. Hardy & Company. Ophthalmometer. No. 1,046,122; Dec. 3; Gaz. vol. 185; p. 111.
Trossin, Otto, Hamburg, Germany. Flying-machine. No. 1,046,682; Dec. 10; Gaz. vol. 185; p. 347.
Trossin, Otto, Hamburg, Germany, assignor to I. E. Robinson, London, England. Furnace. No. 1,039,217; Sept. 24; Gaz. vol. 182; p. 776.
Trost, Otto A., Chicago, Ill. Garbage-receptacle and the like. No. 1,037,562; Sept. 3; Gaz. vol. 182; p. 130.
Troth, Lorado, San Diego, Cal. Insect trapping and cremating device. No. 1,037,688; Sept. 3; Gaz. vol. 182; p. 172.
Trott, C. E., *et al.* (See Putman, Lewis S., assignor.)
Trott, Morrill J., Chicago, Ill. Dolly. No. 1,043,984; Nov. 12; Gaz. vol. 184; p. 362.
Trott, Rolland S., Denver, Colo. Vehicle-spring. No. 1,029,730; June 18; Sp. p. 3619; Gaz. vol. 179; p. 638.
Trott, Rolland S., Denver, Colo. Vehicle-spring. No. 1,029,731; June 18; Sp. p. 3620; Gaz. vol. 179; p. 638.
Trott, Rolland S., Denver, Colo. Vehicle-spring. No. 1,029,732; June 18; Sp. p. 3622; Gaz. vol. 179; p. 638.

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Trotter, James, Chicago, assignor of one-half to A. J. Hopkins, Aurora, Ill. Device for producing draft in engines. No. 1,015,460; Jan. 23; Sp. p. 5248; Gaz. vol. 174; p. 899.
Trounce, F. W. (See Scott, Frederick C., assignor.)
Troup, Alex K. (See Wold, Christian, assignor.)
Troup, Charles, Watseka, Ill. Automatic continuous rail-joint. No. 1,022,984; Apr. 9; Sp. p. 2627; Gaz. vol. 177; p. 448.
Trousdale, Robert A., assignor of one-half to J. H. Seeton, Tyler, Tex. Beam and shank attachment. No. 1,041,530; Oct. 15; Gaz. vol. 183; p. 692.
Troutman, Hal P., Kewanna, Ind. Corn-harvester. No. 1,017,823; Feb. 20; Sp. p. 3515; Gaz. vol. 175; p. 617.
Troutt, George A., Detroit, Mich. Internal-combustion engine. No. 1,022,803; Apr. 9; Sp. p. 2255; Gaz. vol. 177; p. 385.
Trowbridge, Frank C. (See Kutter, Herman L., assignor.)
Trowbridge, Helen F., Port Washington, N. Y. Toy animal. No. 1,023,401; Apr. 16; Sp. p. 3526; Gaz. vol. 177; p. 628.
Trowbridge, Kenneth, Atlanta, Ga. Planetary gearing. No. 1,037,808; Sept. 3; Gaz. vol. 182; p. 210.
Trowbridge, Winthrop N., *et al.* (See Mansfield, Lott, assignor.)
Troxel, David S., Elyria, Ohio. Bicycle-saddle. No. 1,022,447; Apr. 9; Sp. p. 1469; Gaz. vol. 177; p. 263.
Troxel, Guernie O., Chinook, Mont. Self-tightening pulley. No. 1,033,493; July 23; Gaz. vol. 180; p. 1027.
Troxler, Gustavus, Newark, assignor of one-fifth to F. Sanger, one-fifth to A. Decker, Orange, one-fifth to R. Thrush, and one-fifth to G. Munsick, Newark, N. J. Boxing device. No. 1,016,244; Jan. 30; Sp. p. 6882; Gaz. vol. 174; p. 1195.
Troxler, Leon, New Orleans, La. Flying-machine. No. 1,032,967; July 16; Gaz. vol. 180; p. 811.
Troxler, Robert F., Evansville, Ind. Photographic-film washer. No. 1,035,274; Aug. 13; Gaz. vol. 181; p. 323.
Troy Acetylene Company, The. (See Holm, Charles W., assignor.)
Troy, Daniel W., Montgomery, Ala. Method and apparatus for separating materials. No. 1,024,109; Apr. 23; Sp. p. 5021; Gaz. vol. 177; p. 887.
Troy, Daniel W., Montgomery, Ala. Method and apparatus for theatrical purposes. No. 1,025,338; May 7; Sp. p. 511; Gaz. vol. 178; p. 80.
Troy Laundry Machinery Company. (See Allen, Charles H., assignor.)
Troy Laundry Machinery Company. (See Bartholomew, William, assignor.)
Troy, Matthew O., Schenectady, N. Y., assignor to General Electric Company. Transformer. No. 1,021,221; Mar. 26; Sp. p. 4706; Gaz. vol. 176; p. 861.
Troy, Matthew O., Schenectady, N. Y., assignor to General Electric Company. Protection for electrical systems. No. 1,025,846; May 7; Sp. p. 1610; Gaz. vol. 178; p. 255.
Trudel, Francois X. O., Montreal, Quebec, Canada. Food product and obtaining the same. No. 1,039,849; Oct. 1; Gaz. vol. 183; p. 61.
True, George A., assignor of one-half to Northern Engineering Works, Detroit, Mich. Crane. No. 1,017,824; Feb. 20; Sp. p. 3516; Gaz. vol. 175; p. 618.
True, George A., assignor of one-half to Northern Engineering Works, Detroit, Mich. Monorail-trolley-truck construction. No. 1,035,922; Aug. 20; Gaz. vol. 181; p. 582.
Truelsen, Peter C., and A. Simonsen, Glendale, N. Y. Fire-lighting device. No. 1,022,053; Apr. 2; Sp. p. 642; Gaz. vol. 177; p. 102.
Trufant, Walter E., Whitman, Mass. Friction speed-gear for automobiles. No. 1,048,235; Dec. 24; Gaz. vol. 185; p. 941.
Truman, Guy, *et al.* (See Truman, James A., assignor.)
Truman, James A., assignor of one-sixth to C. E. Allen, one-sixth to L. Truman, one-sixth to G. Truman, one-sixth to O. Coberly, and one-sixth to G. Grimes, Springfield, Ohio. Nut-lock. No. 1,037,085; Aug. 27; Gaz. vol. 181; p. 1011.
Truman, Joseph F., *et al.* (See Albert, Floyd W., assignor.)
Truman, Leonard, *et al.* (See Truman, James A., assignor.)
Trumbull Electric Manufacturing Company. (See Clark, Charles A., assignor.)
Trump, Edward N., Syracuse, and J. D. Pennock, Solvay, assignors to The Solvay Process Company, Syracuse, N. Y. Porous granular hygroscopic material. No. 1,026,724; May 21; Sp. p. 3598; Gaz. vol. 178; p. 625.
Trump, Elno H., assignor of one-half to J. K. Williams, Akron, Ohio. Expansible core for repairing tires. No. 1,047,594; Dec. 17; Gaz. vol. 185; p. 696.
Trump, Fuller, assignor to P. A. Staley and J. F. Trump, receivers of Trump Manufacturing Company, Springfield, Ohio. Water-wheel. No. 1,035,275; Aug. 13; Gaz. vol. 181; p. 323.
Trump, J. F., *et al.*, receivers. (See Trump, Fuller, assignor.)
Trundle, George T., assignor to The American Multigraph Company, Cleveland, Ohio. Clutch. No. 1,040,466; Oct. 8; Gaz. vol. 183; p. 297.
Trundle, George T., assignor to The American Multigraph Company, Cleveland, Ohio. Chuck. No. 1,044,299; Nov. 12; Gaz. vol. 184; p. 469.
Trussed Concrete Steel Company. (See Kahn, Julius, assignor.)
Trussed Concrete Steel Company. (See Kane, Thomas H., assignor.)
Trussed Concrete Steel Company. (See Plumb, Roy A., assignor.)
Trussell, Clarence D., assignor to Trussell Manufacturing Company, Poughkeepsie, N. Y. Loose-leaf binder. No. 1,025,170; May 7; Sp. p. 131; Gaz. vol. 178; p. 23.
Trussell, Clarence D., assignor to Trussell Manufacturing Company, Poughkeepsie, N. Y. Loose-leaf binder. No. 1,032,166; July 9; Gaz. vol. 180; p. 495.
Trussell Manufacturing Company. (See Trussell, Clarence D., assignor.)
Trusty, William T., Pine Valley, Miss. Game-card. No. 1,036,166; Aug. 20; Gaz. vol. 181; p. 667.
Tryon, George L., and G. F. Reid, Newburgh, N. Y. Pump-valve. No. 1,044,300; Nov. 12; Gaz. vol. 184; p. 469.
Tscherne, Alois, assignor to Firm of H. Levy, Rorschach, Switzerland. Apparatus for cutting the waste from embroideries. No. 1,022,610; Apr. 9; Sp. p. 1817; Gaz. vol. 177; p. 318.
Tscherne, Alois, assignor to Firm of H. Levy, Rorschach, Switzerland. Machine for cutting embroidery foundation. No. 1,022,611; Apr. 9; Sp. p. 1818; Gaz. vol. 177; p. 318.
Tscherne, Alois, assignor to Firm of H. Levy, Rorschach, Switzerland. Machine for cutting embroideries. No. 1,024,812; Apr. 30; Sp. p. 6619; Gaz. vol. 177; p. 1165.
Tscherne, Alois, assignor to Firm of H. Levy, Rorschach, Switzerland. Machine for cutting embroideries. No. 1,025,490; May 7; Sp. p. 863; Gaz. vol. 178; p. 134.
Tscherne, Alois, assignor to Firm of H. Levy, Rorschach, Switzerland. Machine for cutting embroideries. No. 1,025,491; May 7; Sp. p. 865; Gaz. vol. 178; p. 134.
Tscherne, Alois, assignor to Firm of H. Levy, Rorschach, Switzerland. Machine for cutting embroidery-background. No. 1,025,492; May 7; Sp. p. 868; Gaz. vol. 178; p. 135.
Tscherning, Henry, Freeport, Ill. Pattern-drawing device. No. 1,018,731; Feb. 27; Sp. p. 5562; Gaz. vol. 175; p. 962.
Tscherning, Henry, assignor to Arcade Manufacturing Company, Freeport, Ill. Coffee-mill. No. 1,032,635; July 16; Gaz. vol. 180; p. 701.
Tscherning, Henry, assignor to Arcade Manufacturing Company, Freeport, Ill. Sand-sifter. No. 1,037,371; Sept. 3; Gaz. vol. 182; p. 65.
Tschernitz, Hans. (See Urchniak and Werhnjak, assignors.)
Tschopik, Julius D. (See Butts, Daniel G., assignor.)
Tsukalas, Pelopidas, Athens, Greece. Sighting device for guns. No. 1,033,494; July 23; Gaz. vol. 180; p. 1027.
Tua, Giacinto, Turin, Italy. Automatic detent mechanism for sliding bolts and the like. No. 1,039,615; Sept. 24; Gaz. vol. 182; p. 915.
Tubbs, Dan, *et al.* (See Reames, Charles H., assignor.)
Tubbs, Mary J., *et al.* (See Akes, Charles Y., assignor.)
Tubergen, George J., Grand Rapids, Mich. Vending-machine. No. 1,038,236; Sept. 10; Gaz. vol. 182; p. 387.
Tubes Limited. (See Reinhard, Henry, assignor.)
Tubular Construction Company. (See Atwood, Leonard, assignor.)
Tuch, Christian C., Honolulu, Hawaii. Electric animal and insect exterminator. No. 1,031,492; July 2; Gaz. vol. 180; p. 225.
Tucholke, Emil E., Labolt, S. D. Reel-hinge. No. 1,033,966; July 30; Gaz. vol. 180; p. 1213.
Tuck, William W., Richmond Hill, N. Y., assignor to Velox Manufacturing Company. Addressing-machine. No. 1,026,416; May 14; Sp. p. 2933; Gaz. vol. 178; p. 486.
Tucker, Andrew J., Sedalia, Mo. Waterproofing and preserving composition. No. 1,020,857; Mar. 19; Sp. p. 3954; Gaz. vol. 176; p. 689.
Tucker, Benjamin W., Newark, N. J. Loading and unloading apparatus. No 1,044,301; Nov. 12; Gaz. vol. 184; p. 469.
Tucker, Charles H., Toledo, Ohio. Load-brake for cranes and hoists. No. 1,031,302; July 2; Gaz. vol. 180; p. 160.
Tucker, Charles N., Pawtucket, R. I., assignor of one-third to J. A. Tucker, Walpole, Mass., and one-third to E. E. Salisbury, Providence, R. I. Picker-check. No. 1,013,335; Jan. 2; Sp. p. 547; Gaz. vol. 174; p. 87.
Tucker, Clarence E. and H. P., Cherrydale, Va.; said Clarence E. Tucker assignor to said H. P. Tucker. Non-refillable bottle. No. 1,042,622; Oct. 29; Gaz. vol. 183; p. 1128.
Tucker, Edward F., Frederick, Md. Fruit-drier. No. 1,045,643; Nov. 26; Gaz. vol. 184; p. 996.
Tucker, Frederick E., Taft, Cal. Well-boring tool. No. 1,025,339; May 7; Sp. p. 514; Gaz. vol. 178; p. 80.
Tucker, George E., assignor of one-half to E. Robinson, Springwater, N. Y. Scraper attachment. No. 1,040,816; Oct. 8; Gaz. vol. 183; p. 420.

Alphabetical list of patentees—Continued.

Tucker, George O., Charleston, Ill. Strainer for coffee-pots. No. 1,048,766; Dec. 31; Gaz. vol. 185; p. 1162.
Tucker, Harry S., West Raleigh, N. C. Pipe-wrench. No. 1,024,043; Apr. 23; Sp. p. 4871; Gaz. vol. 177; p. 864.
Tucker, Harvey A., *et al.* (See Watkins, William F., assignor.)
Tucker, Howard P. (See Tucker, Clarence E. and H. P.)
Tucker, Irett F., Sumner, Mich. Vehicle-wheel. No. 1,031,891; July 9; Gaz. vol. 180; p. 405.
Tucker, James A., *et al.* (See Tucker, Charles N., assignor.)
Tucker, James R. (See McArthur and Tucker.)
Tucker, John R., Aurora, Ill., assignor to Ipson Indicator Company, Salt Lake City, Utah. Street and station indicator. No. 1,024,044; Apr. 23; Sp. p. 4873; Gaz. vol. 177; p. 864.
Tucker, Simons S., Peebles, Ohio. Casket. No. 1,018,853; Feb. 27; Sp. p. 5813; Gaz. vol. 175; p. 1004.
Tuckey, Everett N., Yates City, Ill. Rail-splice. No. 1,015,521; Jan. 23; Sp. p. 5359; Gaz. vol. 174; p. 919.
Tudor, James H., assignor of one-fourth to L. M. Moore, Lexington, Ky. Mail-delivering apparatus. No. 1,013,703; Jan. 2; Sp. p. 1359; Gaz. vol. 174; p. 212.
Tudor, John C., Baltimore, Md. Rod-packing. No. 1,045,460; Nov. 26; Gaz. vol. 184; p. 931.
Tudor, John H., Dallas, Tex. Furniture appliance. No. 1,019,202; Mar. 5; Sp. p. 434; Gaz. vol. 176; p. 69.
Tudor, John W., Boston, Mass. Starting device for engines. No. 1,034,325; July 30; Gaz. vol. 180; p. 1338.
Tueckmantel, Hugo, Newark, N. J., assignor to The R. Neumann Hardware Co. Bag-frame fastener. No. 1,032,314; July 9; Gaz. vol. 180; p. 547.
Tuerk, Albert, Chicago, Ill. Electric clock. No. 1,015,748; Jan. 23; Sp. p. 5854; Gaz. vol. 174; p. 998.
Tufting Machine Supply Company. (See Brink, George B., assignor.)
Tufting Machine Supply Company. (See Freshel, John L., assignor.)
Tufting Machine Supply Company. (See Mrock, Albert F., assignor.)
Tufts, Edward R., Pittsburgh, Pa., assignor of one-half to C. E. Greenough, New York, N. Y. Sight for firearms. No. 1,033,495; July 23; Gaz. vol. 180; p. 1028.
Tugwell, George, Chicago, Ill. Lubricator. No. 1,016,238; Jan. 30; Sp. p. 6861; Gaz. vol. 174; p. 1192.
Tuite, Andrew, Vincennes, Ind. Pot-furnace. No. 1,015,522; Jan. 23; Sp. p. 5361; Gaz. vol. 174; p. 920.
Tuite, Andrew, assignor to J. J. Tuite, Vincennes, Ind. Glass-drawing apparatus. No. 1,020,858; Mar. 19; Sp. p. 3956; Gaz. vol. 176; p. 689.
Tuite, John J. (See Tuite, Andrew, assignor.)
Tuke, David O., assignor of one-fourth to W. E. Thomson, Jacksonville, Ill. Wrench. No. 1,027,452; May 28; Sp. p. 5204; Gaz. vol. 178; p. 913.
Tuller, John J., *et al.* (See Korndoerfer, Augustus, Jr., assignor.)
Tully, Arthur M., Woodville, Fla. Spring-wheel. No. 1,041,910; Oct. 22; Gaz. vol. 183; p. 858.
Tully, Joseph J., Chicago, Ill. Fly-guard. No. 1,038,688; Sept. 17; Gaz. vol. 182; p. 579.
Tully, Richard W., Alma, Cal. Stage apparatus for producing volcano effects. No. 1,030,035; June 18; Sp. p. 4279; Gaz. vol. 179; p. 741.
Tuma, Frank, Buffalo, N. Y., assignor of one-half to J. C. Currie, Jersey City, N. J. Compound pump. No. 1,039,218; Sept. 24; Gaz. vol. 182; p. 776.
Tuma, Frank, Buffalo, N. Y., assignor of one-half to J. C. Currie, Jersey City, N. J. Compound pump. No. 1,039,616; Sept. 24; Gaz. vol. 182; p. 916.
Tumey, Thomas H., Austin, Tex. Mail-box. No. 1,038,237; Sept. 10; Gaz. vol. 182; p. 388.
Tune, Brooks H., assignor of one-half to G. W. Tune, Sherman, Tex. Shade-roller bracket. No. 1,046,406; Dec. 3; Gaz. vol. 185; p. 213.
Tune, George W. (See Tune, Brooks H., assignor.)
Tunison, Arthur C., assignor to Atlas Cement Pipe and Machinery Co., Boise, Idaho. Pipe-making machine. No. 1,025,035; Apr. 30; Sp. p. 7062; Gaz. vol. 177; p. 1241.
Tunks, Nelson H., Lima, Ohio. Seal. No. 1,018,687; Feb. 27; Sp. p. 5466; Gaz. vol. 175; p. 948.
Tunks, Nelson H., Lima, Ohio. Seal. No. 1,028,800; June 4; Sp. p. 1571; Gaz. vol. 179; p. 245.
Tunnicliffe, Jesse G. (See Kendrick and Tunnicliffe.)
Turall, Jesse W. (See Cluts, Salisbury, and Turall.)
Turbayne, William A., Lancaster, N. Y., assignor to Gould Storage Battery Company. Electrical system of distribution. No. 1,033,357; July 23; Gaz. vol. 180; p. 984.
Turbayne, William A., Lancaster, N. Y., assignor to Gould Coupler Company. Electrical system of distribution. No. 1,034,537; Aug. 6; Gaz. vol. 181; p. 45.
Turbo Amalgamator and Extraction Company. (See Lockwood, Alfred A., assignor.)
Turek, Anton, assignor to E. Pfisterer, Salzburg, Austria-Hungary. Tool for closing the bung-holes of casks and the like. No. 1,049,173; Dec. 31; Gaz. vol. 185; p. 1301.
Turek, Ferdinand, Cleveland, Ohio. Beer-cooler. No. 1,035,923; Aug. 20; Gaz. vol. 181; p. 583.
Turk, David W., Cleveland, Ohio. Bale-tie. No. 1,019,562; Mar. 5; Sp. p. 1259; Gaz. vol. 176; p. 188.
Turk, Hugo, Iserlohn, Germany. Tilting bottle. No. 1,017,607; Feb. 13; Sp. p. 3001; Gaz. vol. 175; p. 507.
Türke, Bruno, Munich, Germany. Preparation for regenerating metals. No. 1,029,327; June 11; Sp. p. 2733; Gaz. vol. 179; p. 462.
Turnage, Benjiman H., Society Hill, S. C. Lubricating system for engines. No. 1,017,189; Feb. 13; Sp. p. 2134; Gaz. vol. 175; p. 365.
Turnbow, John W. (See Gregory, Marshal J., assignor.)
Turnbull, Nicholas K., Manchester, England. Machine for remaking wire-drawing dies. No. 1,028,305; June 4; Sp. p. 525; Gaz. vol. 179; p. 77.
Turnbull, Nicholas K., Manchester, England. Machine for remaking wire-drawing dies. No. 1,041,200; Oct. 15; Gaz. vol. 183; p. 582.
Turnbull, Walter J., New Orleans, La. Conveyer. No. 1,026,617; May 14; Sp. p. 3338; Gaz. vol. 178; p. 551.
Turner, Albert, Denton, near Manchester, England. Felt-hat and like felting machine. No. 1,033,042; July 16; Gaz. vol. 180; p. 837.
Turner, Cavett V. V., Helena, Ark. Rail-joint. No. 1,019,203; Mar. 5; Sp. p. 435; Gaz. vol. 176; p. 69.
Turner, Charles, and H. J. Flood, Chicago, Ill.; said Flood assignor to said Turner. Oil-extracting device. No. 1,024,230; Apr. 23; Sp. p. 5311; Gaz. vol. 177; p. 930.
Turner, Charles L., Wilmington, Mass. Butt-seaming machine. No. 1,041,201; Oct. 15; Gaz. vol. 183; p. 582.
Turner, Charles P., W. T. Drake, Harrisburg, and J. E. Little, Steelton, Pa. Door-operating mechanism. No. 1,025,890; May 7; Sp. p. 1752; Gaz. vol. 178; p. 278.
Turner, Charles W., Brooklyn, N. Y. Apparatus for distilling hydrocarbon-oil. No. 1,046,683; Dec. 10; Gaz. vol. 185; p. 348.
Turner, Claude A. P., Minneapolis, Minn. Concrete building. No. 1,025,036; Apr. 30; Sp. p. 7066; Gaz. vol. 177; p. 1242.
Turner, Claude A. P., Minneapolis, Minn. Reinforced concrete construction. No. 1,032,571; July 16; Gaz. vol. 180; p. 677.
Turner, Claude A. P., Minneapolis, Minn. Concrete-arch reinforcement. No. 1,034,538; Aug. 6; Gaz. vol. 181; p. 46.
Turner, Claude A P., Minneapolis, Minn. Reinforced concrete construction. No. 1,036,384; Aug. 20; Gaz. vol. 181; p. 744.
Turner, Elizabeth, Knoxville, Tenn. Cap. No. 1,026,479; May 14; Sp. p. 3069; Gaz. vol. 178; p. 506.
Turner, Emory, Peace Dale, R. I. Toy. No. 1,030,437; June 25; Sp. p. 5185; Gaz. vol. 179; p. 922.
Turner, Ernest, Dadeville, Ala. Valve-gear. No. 1,028,158; June 4; Sp. p. 179; Gaz. vol. 179; p. 27.
Turner, Ernest, Dadeville, Ala. Steam-actuated exhaust-valve. No. 1,042,846; Oct. 29; Gaz. vol. 183; p. 1204.
Turner, Ernest J., Pittsburgh, assignor of one-third to B. H. Howard, Aspinwall, Pa. Feeder for ingot-molds. No. 1,022,343; Apr. 2; Sp. p. 1234; Gaz. vol. 177; p. 197.
Turner, Frank A. (See Dunham and Turner.)
Turner, Giles M., Madison, Wis., assignor to Holm's Machine Manufacturing Company, Sparta, Mich. Means for supporting and driving electric generators. No. 1,030,354; June 25; Sp. p. 5007; Gaz. vol. 179; p. 892.
Turner-Harris Vending Machine Company. (See Cawley, Clyde C., assignor.)
Turner, Harry O., *et al.* (See Ivor, Barry, assignor.)
Turner, Harry R., assignor of one-third to A. A. Rottner, Philadelphia, Pa. Non-refillable bottle and stopper. No. 1,033,639; July 23; Gaz. vol. 180; p. 1076.
Turner, Harry W., Manchester, England. Drying or baking stove or oven. No. 1,045,915; Dec. 3; Gaz. vol. 185; p. 41.
Turner, Henry H., Rochester, N. Y. Trap. No. 1,041,911; Oct. 22; Gaz. vol. 183; p. 858.
Turner, James A., Chicago, Ill. Supplemental seat attachment for bicycles. No. 1,045,220; Nov. 26; Gaz. vol. 184; p. 847.
Turner, James P. (See Love and Turner.)
Turner, John, and A. Buxton, Uxbridge, assignors to The Rubber Patents Limited, Cowley, England. Manufacturing lawn-tennis and like balls. No. 1,017,482; Feb. 13; Sp. p. 2773; Gaz. vol. 175; p. 468.
Turner, John C., assignor to The Schieble Toy & Novelty Company, Dayton, Ohio. Toy. No. 1,043,375; Nov. 5; Gaz. vol. 184; p. 118.
Turner, John D., Birmingham, Ala. Guard-rail. No. 1,032,452; July 16; Gaz. vol. 180; p. 638.
Turner, John L., Pinckneyville, Ill. Wrench. No. 1,033,358; July 23; Gaz. vol. 180; p. 984.
Turner, Joseph, and H. Dean, Huddersfield, England. Manufacture of black coloring-matters. No. 1,014,982; Jan. 16; Sp. p. 4229; Gaz. vol. 174; p. 712.
Turner, Joseph, and H. Dean, Huddersfield, England. Manufacture of black coloring-matters. No. 1,014,983; Jan. 16; Sp. p. 4229; Gaz. vol. 174; p. 712.
Turner, Joseph, and H. Dean, Huddersfield, England. Manufacture of black coloring-matters. No. 1,014,984; Jan. 16; Sp. p. 4230; Gaz. vol. 174; p. 712.

Turner, Joseph, and H. Dean, Huddersfield, England. Black coloring-matters. No. 1,028,306; June 4; Sp. p. 531; Gaz. vol. 179; p. 77.
Turner, Joseph B., Cuero, Tex. Indicating attachment for tanks. No. 1,027,936; May 28; Sp. p. 6255; Gaz. vol. 178; p. 1074.
Turner, Joseph L., assignor to The H. K. Mulford Company, Philadelphia, Pa. Producing a metallic derivative of the active principle of the suprarenal glands. No. 1,016,185; Jan. 30; Sp. p. 6759; Gaz. vol. 174; p. 1176.
Turner, Joseph L., assignor to The H. K. Mulford Company, Philadelphia, Pa. Preparing organic iodin compounds. No. 1,016,799; Feb. 6; Sp. p. 1267; Gaz. vol. 175; p. 195.
Turner, Joseph L., assignor to The H. K. Mulford Company, Philadelphia, Pa. Preparing colloidal silver oxid. No. 1,043,646; Nov. 5; Gaz. vol. 184; p. 213.
Turner, Kelley M. (See Rhodes, John K., assignor.)
Turner, Lewis G., Chase City, assignor to E. H. Powell, Union Level, Va. Mail-delivering apparatus. No. 1,046,039; Dec. 3; Gaz. vol. 185; p. 83.
Turner, Luther T., Artesia, N. Mex. Brake-clutch. No. 1,018,280; Feb. 20; Sp. p. 4523; Gaz. vol. 175; p. 778.
Turner, Mathias E., Cleveland Heights, Ohio. Electric meter. No. 1,042,847; Oct. 29; Gaz. vol. 183; p. 1204.
Turner, Millard H., Washington, D. C. Truss. No. 1,035,500; Aug. 13; Gaz. vol. 181; p. 403.
Turner, Noel H., Vulcan, Mich. Electric railway. No. 1,019,381; Mar. 5; Sp. p. 882; Gaz. vol. 176; p. 130.
Turner, Otto F., and W. H. Maple; said Maple assignor to said Turner, Pendleton, Oreg. Cover for tea-kettles. No. 1,024,607; Apr. 30; Sp. p. 6190; Gaz. vol. 177; p. 1092.
Turner, R. D. (See Booth, James H., assignor.)
Turner, Rose R., assignor to E. R. Prather, Spokane, Wash. Egg-beater. No. 1,030,796; June 25; Sp. p. 6217; Gaz. vol. 179; p. 1051.
Turner, Shoubel C., Parkersburg, W. Va. Railway-tie. No. 1,026,968; May 21; Sp. p. 4166; Gaz. vol. 178; p. 711.
Turner Tanning Machinery Company, The. (See Broughton, Winn E., assignor.)
Turner Tanning Machinery Company, The. (See Harris, Robert H., assignor.)
Turner Tanning Machinery Company, The. (See Perkins, Franklin J., assignor.)
Turner Tanning Machinery Company, The. (See Turner, William B., assignor.)
Turner, Thomas E., and O. J. Heath, Springfield, Ohio, assignors to International Harvester Company. Hay-baling press. No. 1,029,156; June 11; Sp. p. 2358; Gaz. vol. 179; p. 402.
Turner, Vaughn and Taylor Company, The. (See Wheeler, Harry E., assignor.)
Turner, Walter V. (See Dewson and Turner.)
Turner, Walter V. (See Miller and Turner.)
Turner, Walter V., Edgewood, assignor to The Westinghouse Air Brake Company, Pittsburgh, Pa. Duplex pressure-control apparatus. No. 1,015,855; Jan. 30; Sp. p. 6084; Gaz. vol. 174; p. 1060.
Turner, Walter V., Edgewood, assignor to The Westinghouse Air Brake Company, Pittsburgh, Pa. Angle-cock device. No. 1,015,856; Jan. 30; Sp. p. 6087; Gaz. vol. 174; p. 1061.
Turner, Walter V., Edgewood, assignor to The Westinghouse Air Brake Company, Pittsburgh, Pa. Engineer's brake-valve device. No. 1,016,186; Jan. 30; Sp. p. 6760; Gaz. vol. 174; p. 1176.
Turner, Walter V., Edgewood, assignor to The Westinghouse Air Brake Company, Pittsburgh, Pa. Electric-pump governor. No. 1,018,594; Feb. 27; Sp. p. 6284; Gaz. vol. 175; p. 917.
Turner, Walter V., Edgewood, assignor to The Westinghouse Air Brake Company, Pittsburgh, Pa. Unloading device for pumps. No. 1,021,808; Apr. 2; Sp. p. 108; Gaz. vol. 177; p. 21.
Turner, Walter V., Edgewood, assignor to The Westinghouse Air Brake Company, Pittsburgh, Pa. Engineer's brake-valve device. (Reissue.) No. 13,402; Apr. 9; Sp. p. 2918; Gaz. vol. 177; p. 497.
Turner, Walter V., Edgewood, assignor to The Westinghouse Air Brake Company, Pittsburgh, Pa. Fluid-pressure-control apparatus. No. 1,025,340; May 7; Sp. p. 516; Gaz. vol. 178; p. 81.
Turner, Walter V., Edgewood, assignor to The Westinghouse Air Brake Company, Pittsburgh, Pa. Retaining-valve device. No. 1,025,341; May 7; Sp. p. 519; Gaz. vol. 178; p. 81.
Turner, Walter V., Edgewood, assignor to The Westinghouse Air Brake Company, Pittsburgh, Pa. Exhaust-control valve for air-brakes. No. 1,027,937; May 28; Sp. p. 6257; Gaz. vol. 178; p. 1075.
Turner, Walter V., Edgewood, assignor to The Westinghouse Air Brake Company, Pittsburgh, Pa. Fluid-pressure brake. No. 1,027,938; May 28; Sp. p. 6258; Gaz. vol. 178; p. 1075.
Turner, Walter V., Edgewood, assignor to The Westinghouse Air Brake Company, Pittsburgh, Pa. Fluid-pressure brake. No. 1,027,939; May 28; Sp. p. 6260; Gaz. vol. 178; p. 1075.
Turner, Walter V., Edgewood, assignor to The Westinghouse Air Brake Company, Pittsburgh, Pa. Quick-action triple-valve device. No. 1,031,211; July 2; Gaz. vol. 180; p. 128.
Turner, Walter V., Edgewood, assignor to The Westinghouse Air Brake Company, Pittsburgh, Pa. Steam-pump governor. No. 1,034,662; Aug. 6; Gaz. vol. 181; p. 85.
Turner, Walter V., Edgewood, assignor to The Westinghouse Air Brake Company, Pittsburgh, Pa. Load-brake device. No. 1,039,220; Sept. 24; Gaz. vol. 182; p. 777.
Turner, Walter V., Edgewood, assignor to The Westinghouse Air Brake Company, Pittsburgh, Pa. Locomotive-brake. No. 1,039,221; Sept. 24; Gaz. vol. 182; p. 777.
Turner, Walter V., Edgewood, assignor to The Westinghouse Air Brake Company, Pittsburgh, Pa. Brake-valve device. No. 1,039,222; Sept. 24; Gaz. vol. 182; p. 778.
Turner, Walter V., Edgewood, assignor to The Westinghouse Air Brake Company, Pittsburgh, Pa. Lubricator for air-pumps. No. 1,045,462; Nov. 26; Gaz. vol. 184; p. 932.
Turner, Walter V., Wilkinsburg, assignor to The Westinghouse Air Brake Company, Pittsburgh, Pa. Fluid-pressure brake. No. 1,031,210; July 2; Gaz. vol. 180; p. 128.
Turner, Walter V., Wilkinsburg, assignor to The Westinghouse Air Brake Company, Pittsburgh, Pa. Retarded-release valve. No. 1,039,219; Sept. 24; Gaz. vol. 182; p. 776.
Turner, William B., Melrose, assignor to The Turner Tanning Machinery Company, Peabody, Mass. Staking or perching machine. No. 1,016,657; Feb. 6; Sp. p. 967; Gaz. vol. 175; p. 147.
Turner, William M., Union City, Tenn. Advertising device. No. 1,045,221; Nov. 26; Gaz. vol. 184; p. 847.
Turner, William R., Wallace, Idaho. Piano-protector. No. 1,017,608; Feb. 13; Sp. p. 3003; Gaz. vol. 175; p. 507.
Turner, William W., Rock Island, Ill. Metal ferrule. No. 1,034,539; Aug. 6; Gaz. vol. 181; p. 46.
Turney, Eugene T., Rock Island, assignor to Artista Piano Player Company, Milan, Ill. Controller for pneumatic motors. No. 1,016,658; Feb. 6; Sp. p. 972; Gaz. vol. 175; p. 147.
Turney, Eugene T., Rock Island, assignor to Artista Piano Player Company, Milan, Ill. Wind-chest-tension indicator for piano-playing attachments. No. 1,020,584; Mar. 19; Sp. p. 3357; Gaz. vol. 176; p. 597.
Turney, Eugene T., assignor to American Pneumatic Action Company, Davenport, Iowa. Motor for piano-players. No. 1,028,307; June 4; Sp. p. 532; Gaz. vol. 179; p. 77.
Turney, Eugene T., assignor to American Pneumatic Action Company, Davenport, Iowa. Piano-player. No. 1,028,308; June 4; Sp. p. 534; Gaz. vol. 179; p. 78.
Turney, Eugene T., assignor to American Pneumatic Action Company, Davenport, Iowa. Motor for piano-players. No. 1,028,309; June 4; Sp. p. 536; Gaz. vol. 179; p. 78.
Turney, Eugene T., assignor to Artista Piano Player Company, Rock Island, Ill. Combined record-rewinding, shifting mechanism, and relief for piano-playing attachments. No. 1,032,451; July 16; Gaz. vol. 180; p. 637.
Turney, Eugene T., assignor to Artista Piano Player Company, Rock Island, Ill. Tone-regulator for piano-playing attachments. No. 1,033,129; July 23; Gaz. vol. 180; p. 906.
Turney, Eugene T., Rock Island, assignor to Artista Piano Player Company, Milan, Ill. Pneumatic action for musical instruments. No. 1,033,216; July 23; Gaz. vol. 180; p. 935.
Turney, Eugene T., Rock Island, assignor to Artista Piano Player Company, Milan, Ill. Pneumatic action for musical instruments. No. 1,033,217; July 23; Gaz. vol. 180; p. 936.
Turney, Harry L. (See Libby and Turney.)
Turney, Harry L., Portland, Oreg. Logging-engine. No. 1,038,029; Sept. 10; Gaz. vol. 182; p. 320.
Turney, William, Jackson, Mich. Expansible reamer. No. 1,031,030; July 2; Gaz. vol. 180; p. 64.
Turnipseed, A. L. (See Newman, Bert W., assignor.)
Turnipseed, Allen L. (See Newman, Birt W., assignor.)
Turquand, Frederick J., and W. E. Gray, London, England. Apparatus for the detection of dangerous gases. No. 1,016,305; Feb. 6; Sp. p. 150; Gaz. vol. 175; p. 23.
Tusten, Walter D., New York, N. Y. Chain. No. 1,027,226; May 21; Sp. p. 4744; Gaz. vol. 178; p. 798.
Tusten, Walter D., New York, N. Y. Spring-joint. No. 1,030,143; June 18; Sp. p. 4507; Gaz. vol. 179; p. 778.
Tusten, Walter D., New York, N. Y. Chain-link. No. 1,037,086; Aug. 27; Gaz. vol. 181; p. 1012.
Tute, Robert A., Atlanta, Ga. Projectile. No. 1,042,504; Oct. 29; Gaz. vol. 183; p. 1086.
Tuttle, Ami C., Lakewood, Ohio. Mechanical movement for adjusting the jaws of wrenches, clamps, vises, and similar tools. No. 1,037,087; Aug. 27; Gaz. vol. 181; p. 1012.
Tuttle, Ami C., Lakewood, Ohio. Mechanical movement. No. 1,045,461; Nov. 26; Gaz. vol. 184; p. 931.
Tuttle, Charles B., Detroit, Mich. Horse-boot. No. 1,036,750; Aug. 27; Gaz. vol. 181; p. 900.

Alphabetical list of patentees—Continued.

Tuttle, Henry A., assignor to Evans Stamping & Plating Company, Taunton, Mass. Thrust-collar. No. 1,022,518; Apr. 9; Sp. p. 1605; Gaz. vol. 177; p. 287.
Tuttle, Joseph B., assignor of one-half to R. P. Robinson, Asheville, N. C. Dinner-pail. No. 1,024,231; Apr. 23; Sp. p. 5314; Gaz. vol. 177; p. 931.
Tuttle, Joseph B., and R. P. Robinson, Asheville, N. C. Clothes-line. No. 1,040,467; Oct. 8; Gaz. vol. 183; p. 297.
Tuttle, Louis K., Oklahoma, Okla. Power-transmission belting. No. 1,048,236; Dec. 24; Gaz. vol. 185; p. 941.
Tuttle, Marie E., Butte, Mont. Match-safe. No. 1,017,708; Feb. 20; Sp. p. 3213; Gaz. vol. 175; p. 577.
Tuttle, Washington I., Baltimore, Md. Metallic box. No. 1,023,893; Apr. 23; Sp. p. 4541; Gaz. vol. 177; p. 812.
Tuttle, Washington I., Baltimore, Md. Box. No. 1,038,030; Sept. 10; Gaz. vol. 182; p. 320.
Tutwiler, Thomas H., Memphis, Tenn. Passenger-car. No. 1,015,100; Jan. 16; Sp. p. 4462; Gaz. vol. 174; p. 751.
Tutwiler, Thomas H., and A. D. McWhorter, Memphis, Tenn. Door-operating mechanism. No. 1,040,817; Oct. 8; Gaz. vol. 183; p. 420.
Tuxworth, Frank E., Fullerton, La. Conveyer-cleat. No. 1,024,232; Apr. 23; Sp. p. 5316; Gaz. vol. 177; p. 931.
Tvinde, Ivar L., Watertown, S. D. Vehicle-wheel. No. 1,017,236; Feb. 13; Sp. p. 2248; Gaz. vol. 175; p. 382.
Twaddell, E. W. (See Bullock, Edward T., assignor.)
Twamley, Clark E., deceased, Alexandria, S. D.; J. L. Twamley, administrator, assignor to National Seed Tester Company, Des Moines, Iowa. Apparatus for testing seed-corn. No. 1,031,669; July 2; Gaz. vol. 180; p. 284.
Twamley, James L., administrator. (See Twamley, Clark E.)
Twedt, Martin, Sheldon, N. D. Apparatus for removing smut from grain. No. 1,048,767; Dec. 31; Gaz. vol. 185; p. 1163.
Tweeddale, Jean, New York, N. Y. Strainer for nursing-bottles. No. 1,041,378; Oct. 15; Gaz. vol. 183; p. 642.
Twentieth Century Machinery Company. (See Hauk, Joseph, Jr., assignor.)
Twentieth Century Machinery Company, The. (See Volz, Simon, assignor.)
Twigg, John F., San Francisco, Cal. Speed-regulating carbureter. No. 1,047,595; Dec. 17; Gaz. vol. 185; p. 696.
Twinberrow, John W., Worcester, England. Apparatus for mixing the ingredients of concrete and other substances. No. 1,033,218; July 23; Gaz. vol. 180; p. 937.
Twining, Harry L., Los Angeles, Cal. Airship. No. 1,036,033; Aug. 20; Gaz. vol. 181; p. 619.
Twining, Stephen B., Yardley, Pa. Mixing-machine. No. 1,045,916; Dec. 3; Gaz. vol. 185; p. 42.
Twining, William A., assignor to The National Printing Machine Company, Cleveland, Ohio. Type setting and distributing machine. No. 1,036,751; Aug. 27; Gaz. vol. 181; p. 900.
Twisleton-Wykeham-Fiennes, Caryl W., London, and M. Barr, Harrington Gardens, England. Apparatus for separating and counting bank-notes, cards, and the like. No. 1,034,351; July 30; Gaz. vol. 180; p. 1348.
Twitchell, Charles R., Los Angeles, Cal., assignor, by mesne assignments, to A. Schrader's Son, Incorporated, New York, N. Y. Pressure-gage. No. 1,048,237; Dec. 24; Gaz. vol. 185; p. 941.
Twombly Motors Company. (See Twombly, Willard I., assignor.)
Twombly, Willard I., assignor, by mesne assignments, to Twombly Motors Company, New York, N. Y. Mechanical movement. No. 1,016,978; Feb. 13; Sp. p. 1661; Gaz. vol. 175; p. 292.
Twombly, Willard I., assignor, by mesne assignments, to Twombly Motors Company, New York, N. Y. Variable-speed power-transmission mechanism. No. 1,018,219; Feb. 20; Sp. p. 4401; Gaz. vol. 175; p. 757.
Twombly, Willard I., assignor, by mesne assignments, to Twombly Motors Company, New York, N. Y. Tire. No. 1,018,454; Feb. 27; Sp. p. 4916; Gaz. vol. 175; p. 868.
Twombly, Willard I., assignor to Twombly Motors Company, New York, N. Y. Internal-combustion engine. No. 1,018,532; Feb. 27; Sp. p. 5143; Gaz. vol. 175; p. 895.
Twombly, Willard I., assignor to Twombly Motors Company, New York, N. Y. Pneumatic tire. No. 1,019,286; Mar. 5; Sp. p. 625; Gaz. vol. 176; p. 97.
Twombly, Willard I., assignor to Twombly Motors Company, New York, N. Y. Coupling or union. No. 1,022,344; Apr. 2; Sp. p. 1235; Gaz. vol. 177; p. 198.
Twombly, Willard I., assignor, by mesne assignments, to Twombly Motors Company, New York, N. Y. Variable-speed power-transmission mechanism. No. 1,038,689; Sept. 17; Gaz. vol. 182; p. 580.
Twombly, Willard I., assignor to Twombly Motors Company, New York, N. Y. Means to drive fans of motor-vehicles. No. 1,039,223; Sept. 24; Gaz. vol. 182; p. 778.
Twombly, Willard I., assignor to Twombly Motors Company, New York, N. Y. Internal-combustion engine. No. 1,042,505; Oct. 29; Gaz. vol. 183; p. 1086.
Twombly, Willard I., assignor to Twombly Motors Company, New York, N. Y. Oil-feeding system for internal-combustion engines. No. 1,044,709; Nov. 19; Gaz. vol. 184; p. 641.
Twombly, Willard I., assignor to Twombly Motors Company, New York, N. Y. Internal-combustion engine. No. 1,047,860; Dec. 17; Gaz. vol. 185; p. 789.
Twomley, Melvan L., Anderson, Ind. Machine for paraffining carton-blanks. No. 1,045,222; Nov. 26; Gaz. vol. 184; p. 848.
Tychon, Justyn A., Cloquet, Minn. Spreader for reins. No. 1,022,985; Apr. 9; Sp. p. 2629; Gaz. vol. 177; p. 448.
Tyden, Emil. (See Burton, Charles S., assignor.)
Tyden, Emil, Hastings, Mich. Glue-heater. No. 1,013,336; Jan. 2; Sp. p. 548; Gaz. vol. 174; p. 87.
Tyden, Emil, Hastings, Mich. Knockdown extension-table. No. 1,030,438; June 25; Sp. p. 5187; Gaz. vol. 179; p. 922.
Tyden, Emil, Hastings, Mich. Extension-table. No. 1,033,844; July 30; Gaz. vol. 180; p. 1170.
Tyden, Emil, Hastings, Mich. Metal-reinforced veneer panel. No. 1,035,924; Aug. 20; Gaz. vol. 181; p. 583.
Tyer, Edward, Dalston, London, England. Apparatus for controlling the traffic on single-line railways. No. 1,024,233; Apr. 23; Sp. p. 5317; Gaz. vol. 177; p. 931.
Tygard Engine, The, *et al.* (See Tygard, James W., assignor.)
Tygard, James W., assignor of one-half to H. A. W. Wood, New York, N. Y., and one-half to The Tygard Engine. Rotary pump or motor. No. 1,047,340; Dec. 17; Gaz. vol. 185; p. 608.
Tygert, Laura E., Albany, N. Y. Flower-stemming device. No. 1,026,969; May 21; Sp. p. 4168; Gaz. vol. 178; p. 711.
Tyler, Aaron J., Rochester, N. Y. Valve. No. 1,035,398; Aug. 13; Gaz. vol. 181; p. 369.
Tyler, Aaron J., Rochester, assignor to F. S. Bidwell, Shortsville, N. Y. Automatic spraying apparatus. No. 1,039,335; Sept. 24; Gaz. vol. 182; p. 817.
Tyler, Aaron J., Rochester, assignor to F. S. Bidwell, Shortsville, N. Y. Force-pump. No. 1,039,336; Sept. 24; Gaz. vol. 182; p. 818.
Tyler, Aaron J., Rochester, assignor to F. S. Bidwell, Shortsville, N. Y. Pressure-gage for spraying-tanks. No. 1,047,719; Dec. 17; Gaz. vol. 185; p. 741.
Tyler, Charles A., assignor of one-half to F. C. Kuschel, Wilkes-Barre, Pa. Apparatus for removing surplus starch from starched articles. No. 1,013,337; Jan. 2; Sp. p. 549; Gaz. vol. 174; p. 88.
Tyler, Clifford M. (See Farnum, Dwight, assignor.)
Tyler, Frederick A., Albany, N. Y. Bracket for water-tanks. No. 1,036,752; Aug. 27; Gaz. vol. 181; p. 901.
Tyler, John S., Boone, Iowa. Track-inspecting device. No. 1,027,086; May 21; Sp. p. 4462; Gaz. vol. 178; p. 752.
Tyler, Lewis L., Tacoma, Wash. Car-brake. No. 1,020,936; Mar. 19; Sp. p. 4090; Gaz. vol. 176; p. 715.
Tyler, Lewis L., Tacoma, Wash. Chock-block. No. 1,047,465; Dec. 17; Gaz. vol. 185; p. 650.
Tyler, Pardon B., Butterfield, Minn. Toy. No. 1,039,617; Sept. 24; Gaz. vol. 182; p. 916.
Tyminski, Józef, Chicopee, Mass. Folding umbrella. No. 1,042,174; Oct. 22; Gaz. vol. 183; p. 945.
Tyne, John J., Chicago, Ill. Water-commingling head. No. 1,030,144; June 18; Sp. p. 4509; Gaz. vol. 179; p. 779.
Typograph G. M. B. H. (See Dorneth, Julius, assignor.)
Tyree, Hiram. (See Scranton, Robert A., assignor.)
Tyroll, E. A., *et al.* (See Shoemaker, Alvin H., assignor.)
Tyson, Andrew H., Washington, D. C. Bottle-stopper. No. 1,029,246; June 11; Sp. p. 2553; Gaz. vol. 179; p. 432.
Tyson, James R., Reading, Pa. Marine propeller. No. 1,041,912; Oct. 22; Gaz. vol. 183; p. 859.
Tyson, James R., Reading, Pa. Aerial propeller. No. 1,041,913; Oct. 22; Gaz. vol. 183; p. 859.
Tysseling, Peter, Pella, Iowa. Spring-tire. No. 1,048,238; Dec. 24; Gaz. vol. 185; p. 941.
Tywacana Farms Poultry Company. (See Hammond, Robert O., assignor.)
U. S. Bobbin & Shuttle Co. (See Allen, Robert N., assignor.)
U. S. Bobbin & Shuttle Co. (See Stetson and Allen, assignors.)
U. S. Bobbin & Shuttle Company. (See Farnum, William C., assignor.)
U. S. Fire Apparatus Company. (See Lally, John T., assignor.)
U. S. Lithograph Company. (See Goedike, George G., assignor.)
U. S. Lithograph Company. (See Lutterman, Christopher W., assignor.)
U. S. Slicing Machine Company. (See Goodfellow, Herbert R., assignor.)
U. S. Slicing Machine Company. (See Stukart, Hendrik, assignor.)
U. S. Slicing Machine Company. (See Thomas, Henry, assignor.)

Udkler, Albert, and J. A. J. Snartemo, Rhinelander, Wis. Cover and lock therefor. No. 1,033,496; July 23; Gaz. vol. 180; p. 1028.
Uebelmesser, Charles R., assignor to American Moving Picture Machine Company, New York, N. Y. Moving-picture machine. No. 1,023,053; Apr. 9; Sp. p. 2767; Gaz. vol. 177; p. 471.
Uebelmesser, Charles R., assignor to American Moving Picture Machine Company, New York, N. Y. Automatic shutter for moving-picture machines. No. 1,040,468; Oct. 8; Gaz. vol. 183; p. 297.
Uebelmesser, Charles R., New York, N. Y., assignor, by mesne assignments, to L. G. B. Erb and J. A. Golden. Moving-picture machine. No. 1,019,929; Mar. 12; Sp. p. 1981; Gaz. vol. 176; p. 342.
Uhl, Edgar G., Encinal, Tex. Extensible carstep. No. 1,016,800; Feb. 6; Sp. p. 1268; Gaz. vol. 175; p. 195.
Uhl, Joseph F. L., assignor to The Toledo Metal Furniture Company, Toledo, Ohio. Knockdown stand, stool, or the like. No. 1,023,181; Apr. 16; Sp. p. 3094; Gaz. vol. 177; p. 553.
Uhl, Joseph F. L., assignor to The Toledo Metal Furniture Company, Toledo, Ohio. Caster raising and lowering means for stands, &c. No. 1,023,182; Apr. 16; Sp. p. 3096; Gaz. vol. 177; p. 553.
Uhlemann, William R., Chicago, Ill. Eyeglass-mounting. No. 1,036,034; Aug. 20; Gaz. vol. 181; p. 619.
Uhlemann, William R., Chicago, Ill. Nose-grip for eyeglasses. No. 1,036,035; Aug. 20; Gaz. vol. 181; p. 619.
Uhlemann, William R., Chicago, Ill. Eyeglass-mounting. No. 1,036,036; Aug. 20; Gaz. vol. 181; p. 619.
Uhlig, Richard W., Rutherford, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 1,021,386; Mar. 26; Sp. p. 5041; Gaz. vol. 176; p. 918.
Uhlinger, John G., assignor to Western Refrigerator & Manufacturing Co., St. Louis, Mo. Wall-section and connection. No. 1,045,223; Nov. 26; Gaz. vol. 184; p. 848.
Uhthoff, Eduard, Berlin-Charlottenburg, assignor to Typograph G. m. b. H., Berlin, Germany. Typograph composing-machine. No. 1,017,929; Feb. 20; Sp. p. 3781; Gaz. vol. 175; p. 657.
Ulbrecht, Robert, Chicago, Ill. Clothes-line reel. No. 1,046,684; Dec. 10; Gaz. vol. 185; p. 348.
Ulbrich, William M., Atlantic, Iowa. Mail-box signal. No. 1,015,523; Jan. 23; Sp. p. 5363; Gaz. vol. 174; p. 920.
Uline, Burton A. (See Uline, Walter C. and B. A.)
Uline, Walter C. and B. A., Nappanee, Ind. Silo. No. 1,047,861; Dec. 17; Gaz. vol. 185; p. 790.
Ullitz, Ursilla, New York, N. Y. Hat-box. No. 1,040,060; Oct. 1; Gaz. vol. 183; p. 130.
Ullman, Rudolph, Oak Park, Ill. Pump or motor. No. 1,029,157; June 11; Sp. p. 2359; Gaz. vol. 179; p. 402.
Ullmann, Jacob K., New Haven, Conn. Brake for vehicle-wheels. No. 1,017,930; Feb. 20; Sp. p. 3785; Gaz. vol. 175; p. 657.
Ullmann, Max, Zwickau, Germany. Preparation of printing-plates. No. 1,034,745; Aug. 6; Gaz. vol. 181; p. 115.
Ullrich, Georg, Broken Hill, New South Wales, Australia. Magnetic separator. No. 1,037,563; Sept. 3; Gaz. vol. 182; p. 131.
Ullrich, Georg, Broken Hill, New South Wales, Australia. Magnetic separator. No. 1,046,685; Dec. 10; Gaz. vol. 185; p. 348.
Ulmann, Carl J., New York, N. Y. Receptacle for thread, cord, silk, and the like. No. 1,029,094; June 11; Sp. p. 2231; Gaz. vol. 179; p. 381.
Ulmen, Philip C., and A. Johnson, Niagara, Wis. Pulpwood barker. No. 1,020,783; Mar. 19; Sp. p. 3788; Gaz. vol. 176; p. 664.
Ulmer, Charles, Lisbon, N. D. Change-making machine. No. 1,020,466; Mar. 19; Sp. p. 3081; Gaz. vol. 176; p. 558.
Ulmer, Frank M., Philadelphia, Pa. Lock-faucet. No. 1,026,725; May 21; Sp. p. 3599; Gaz. vol. 178; p. 625.
Ulmer, Melchior, New York, N. Y. Cigar-package. No. 1,044,948; Nov. 19; Gaz. vol. 184; p. 723.
Ulrich, Frederick W., Rock Falls, Ill. Garden-tool. No. 1,026,133; May 14; Sp. p. 2305; Gaz. vol. 178; p. 389.
Ulrich, Julius M., Greenwich, Conn., assignor of one-half to W. Rahr, Jr., Manitowoc, Wis. Gas-engine. No. 1,019,563; Mar. 5; Sp. p. 1260; Gaz. vol. 176; p. 188.
Ulrich, William E., Detroit, Mich. Metallic-sash-glazing clip. No. 1,039,224; Sept. 24; Gaz. vol. 182; p. 779.
Ulrichs, Ernst, Elberfeld, assignor to Wülfing, Dahl and Company, A. G., Barmen, Germany. Manufacture of lakes. No. 1,014,539; Jan. 9; Sp. p. 3167; Gaz. vol. 174; p. 527.
Ulrichs, Ernst, Elberfeld, assignor to Company "Wülfing, Dahl & Co., Actiengesellschaft," Barmen, Germany. Manufacture of lakes. No. 1,022,612; Apr. 9; Sp. p. 1819; Gaz. vol. 177; p. 318.
Ulrichs, Ernst, Elberfeld, assignor to Company Wülfing, Dahl & Co., A. G., Barmen, Germany. Color-lake and manufacturing same. No. 1,028,239; June 4; Sp. p. 392; Gaz. vol. 179; p. 56.
Ulsh, Carl and G., Marion, Ohio. Railway-crossing. No. 1,029,035; June 11; Sp. p. 2097; Gaz. vol. 179; p. 362.
Ulsh, George. (See Ulsh, Carl and G.)
Umphrey, Louis C. (See Thum, Umphrey, and Clune.)
Umpleby, James E., Troy, assignor of one-half to J. S. Fuller, Kingston, N. Y. Neckband stretcher and shaper. No. 1,018,533; Feb. 27; Sp. p. 5147; Gaz. vol. 175; p. 896.
Unckless, Leslie, assignor to Century Sanitary Manufacturing Company, Eastwood, N. Y. Ball-cock. No. 1,016,458; Feb. 6; Sp. p. 508; Gaz. vol. 175; p. 78.
Unckrich, Ferdinand F., assignor to The American Steel Grave Vault Company, Galion, Ohio. Hinge. No. 1,031,745; July 9; Gaz. vol. 180; p. 354.
Undeen, Gustav A., Proctor, Vt. Polishing-head. No. 1,035,758; Aug. 13; Gaz. vol. 181; p. 488.
Underfeed Stoker Company of America, The. (See Howell, Sylvester S., assignor.)
Underfeed Stoker Company of America, The. (See Kenney, William J., assignor.)
Underfeed Stoker Company of America, The. (See Kenney and Grohn, assignors.)
Underhill, Charles R., assignor to The Acme Wire Co., New Haven, Conn. Electrical coil and making the same. No. 1,036,935; Aug. 27; Gaz. vol. 181; p. 960.
Underhill, Charles R., assignor to The Acme Wire Co., New Haven, Conn. Electrical coil and making the same. No. 1,036,936; Aug. 27; Gaz. vol. 181; p. 961.
Underhill, Charles R., assignor to The Acme Wire Co., New Haven, Conn. Making electrical coils. No. 1,036,937; Aug. 27; Gaz. vol. 181; p. 961.
Underhill, Walter A., Auburn, N. Y. Dump-box. No. 1,044,949; Nov. 19; Gaz. vol. 184; p. 723.
Underhill, William M., Oconto, Wis. Holder for cows' tails. No. 1,044,302; Nov. 12; Gaz. vol. 184; p. 469.
Underwood & Company, H. B. (See Pedrick, Howard A., assignor.)
Underwood Computing Machine Company. (See Degener, Gustave O., assignor.)
Underwood, George W., Council Bluffs, Iowa. Automatic safety-gate for freight-elevators. No. 1,035,759; Aug. 13; Gaz. vol. 181; p. 489.
Underwood, John T. (See Main, Fred F., assignor.)
Underwood, Joseph H., Roscoe, Pa. Rail-joint. No. 1,029,407; June 11; Sp. p. 2924; Gaz. vol. 179; p. 489.
Underwood, Oliver P. (See Hill and Underwood.)
Underwood, Oliver P., and R. S. Hill; said Underwood assignor to H. C. Mills, Des Moines, Iowa. Carbureter. No. 1,033,130; July 23; Gaz. vol. 180; p. 906.
Underwood Typewriter Company. (See Ammen, Francis D., assignor.)
Underwood Typewriter Company. (See Barnard, Walter E., assignor.)
Underwood Typewriter Company. (See Carlin, Samuel E., assignor.)
Underwood Typewriter Company. (See Corcoran, Cornelius B., assignor.)
Underwood Typewriter Company. (See Fortin, Benjamin P., assignor.)
Underwood Typewriter Company. (See Garsden, John H., assignor.)
Underwood Typewriter Company. (See Gibbs and Sokolov, assignors.)
Underwood Typewriter Company. (See Kurowski, Alfred G. F., assignor.)
Underwood Typewriter Company. (See Lockwood, Marquis H., assignor.)
Underwood Typewriter Company. (See Lundeberg, Carl F., assignor.)
Underwood Typewriter Company. (See McLaughlin, John C., assignor.)
Underwood Typewriter Company. (See Miller, Frank C., assignor.)
Underwood Typewriter Company. (See Pfunder, Emil L., assignor.)
Underwood Typewriter Company. (See Smith, Alexander J., assignor.)
Underwood Typewriter Company. (See Uhlig, Richard W., assignor.)
Underwood Typewriter Company. (See Young, Frank A., assignor.)
Underwood, William H. (See Holmgreen and Underwood.)
Underwriters Company, The. (See Jaeger, Otto, assignor.)
Ungar, Martin, Chicago, Ill. Life-saving net. No. 1,021,280; Mar. 26; Sp. p. 4833; Gaz. vol. 176; p. 881.
Unger, Ellen D. (See Unger, Frederic W., assignor.)
Unger, Ernest. (See Grosert and Unger.)
Unger, Frank C., St. Louis, Mo. Telephone system. No. 1,022,713; Apr. 9; Sp. p. 2069; Gaz. vol. 177; p. 356.
Unger, Frederic W., assignor, by mesne assignments, to E. D. Unger, Leesport, Pa. Vehicle-jack. No. 1,032,453; July 16; Gaz. vol. 180; p. 638.
Union Carbide Company. (See Morehead, Cox, and Marshall, assignors.)
Union Clay Products Company. (See Dixon, William W., assignor.)
Union Clay Products Company. (See Taylor, Edwin, assignor.)
Union Draft Gear Company. (See Cardwell, James R., assignor.)
Union Electric Welding Company, The. (See Beam, Frank E., assignor.)

Alphabetical list of patentees—Continued.

Union Iron Works Co. (See Dahl, Knut M., assignor.)
Union Metal Manufacturing Company, The. (See Barrick, Christopher C., assignor.)
Union Metallic Cartridge Company, The. (See Pritham, Henry C., assignor.)
Union Metallic Cartridge Company, The. (See Hoagland, Frank O., assignor.)
Union Paper Bag Machine Company. (See Appel, Daniel, assignor.)
Union Paper Bag Machine Company. (See Lorenz, William A., assignor.)
Union Paper Bag Machine Company. (See Lorenz and Merritt, assignors.)
Union Paper Bag Machine Company. (See Merritt, Joseph, assignor.)
Union Paper Bag Machine Company. (See Sanders, Charles B., assignor.)
Union Special Machine Company. (See Onderdonk, Lansing, assignor.)
Union Special Machine Company. (See Taubert, Robert, assignor.)
Union Special Machine Company. (See Van Horn, Vandiver J., assignor.)
Union Special Machine Company. (See Woodward, Russel G., assignor.)
Union Special Sewing Machine Co. (See Corey, Daniel W., assignor.)
Union Special Sewing Machine Company. (See Onderdonk, Lansing, assignor.)
Union Steam Pump Company. (See Bird, John C., assignor.)
Union Switch & Signal Company, The. (See Allen, Walter P., assignor.)
Union Switch & Signal Company, The. (See Allen and Coleman, assignors.)
Union Switch and Signal Company, The. (See Brown, Walter W., assignor.)
Union Switch and Signal Company, The. (See Clark, Arba G., assignor.)
Union Switch & Signal Company, The. (See Coleman, John P., assignor.)
Union Switch and Signal Company, The. (See Griffin, Henry W., assignor.)
Union Switch and Signal Company, The. (See Hawkins, Laurence A., assignor.)
Union Switch & Signal Company, The. (See Holliday, John S., assignor.)
Union Switch & Signal Company, The. (See Howard, Lemuel F., assignor.)
Union Switch & Signal Company, The. (See Lewis and Holliday, assignors.)
Union Switch & Signal Company, The. (See Livermore, Arthur C., assignor.)
Union Switch and Signal Company, The. (See Roome, William G., assignor.)
Union Switch & Signal Company, The. (See Taylor, John D., assignor.)
Union Switch & Signal Company, The. (See Thullen, Louis H., assignor.)
Union Switch & Signal Company, The. (See Utne, Per, assignor.)
Union Switch & Signal Company, The. (See Wurts, Alexander J., assignor.)
Union Switch & Signal Company, The. (See Zabel, William, assignor.)
Union Typewriter Company. (See Barr, John H., assignor.)
Union Typewriter Company. (See Barrett, Glenn J., assignor.)
Union Typewriter Company. (See Barron, Walter J., assignor.)
Union Typewriter Company. (See Brooks, Byron A., assignor.)
Union Typewriter Company. (See Clauder, Arthur W., assignor.)
Union Typewriter Company. (See Daugherty, James D., assignor.)
Union Typewriter Company. (See Felbel, Jacob, assignor.)
Union Typewriter Company. (See Ford, Hannibal C., assignor.)
Union Typewriter Company. (See Hurley, Justin T., assignor.)
Union Typewriter Company. (See Latta, Emmit G., assignor.)
Union Typewriter Company. (See Palmer, Walter E., assignor.) (Reissue.)
Union Typewriter Company. (See Polhuis, Leendert P., assignor.)
Union Typewriter Company. (See Pool, Morris W., assignor.)
Union Typewriter Company. (See Schesch, Theodore H., assignor.)
Union Typewriter Company. (See Shepard, Charles H., assignor.)
Union Typewriter Company. (See Smith, Arthur W., assignor.)
Union Typewriter Company. (See Smith, Charles E., assignor.)
Union Typewriter Company. (See Smith, George H., assignor.)
Union Typewriter Company. (See Strother, Robert H., assignor.)
Union Typewriter Company. (See Taylor, Charles C., assignor.)
Union Typewriter Company. (See Waldheim, John, assignor.)
Union Typewriter Company. (See Woodward, Oscar, assignor.)
Union Typewriter Company. (See Yaw, Clio B., assignor.)
Union Typewriter Company of New Jersey. (See Pool, Morris W., assignor.)
Union Wire Mattress Company. (See Klipfel and Hansen, assignors.)
Unique Art Manufacturing Co. (See Singer, Lázár, assignor.)
Unit Construction Company. (See Conzelman, John E., assignor.)
Unit Construction Company. (See Meier, Albert J., assignor.)
Unit Construction Company. (See Morley, Charles D., assignor.)
Unit Weighing and Packing System, The. (See Heybach, Frederick J., assignor.)
United Aviation Company. (See Mentz, George F., assignor.)
United Bifocal Company. (See Seymour, Walter I., assignor.)
United Button Company. (See Morrissey, Thomas F., assignor.)
United Cigarette Machine Company, The. (See Peck, William T., assignor.)
United Electric Apparatus Company. (See Ziegler, Alfred A., assignor.)
United Electric Company, The. (See Dillon, Charles A., assignor.) (Reissue.)
United Electric Company, The. (See Goughnour, Charles L., assignor.)
United Engineering and Foundry Co. (See Cordes, Frank, assignor.)
United Flexible Metallic Tubing Company, The. (See Berryman and Camus, assignors.)
United Gas Improvement Company. (See Knapp, Isaac N., assignor.)
United Gas Improvement Company, The. (See Rusby, John M., assignor.)
United Gas Improvement Company, The. (See Rusby and Evans, assignors.)
United Iron Works. (See Yeatman, John A., assignor.)
United Nut Lock Company. (See Bullard, James H. and E. W., assignors.)
United Printing Machinery Company. (See Piper, Myron H., assignor.
United Seal Company, The. (See Macklin, Trimmer, and Harbison, assignors.)
United Shirt and Collar Company, The. (See Dormandy, Garry J., assignor.)
United Shoe Machinery Company. (See Alexander, Alexander M., assignor.)
United Shoe Machinery Company. (See Allen, John V., assignor.)
United Shoe Machinery Company. (See Alley, Frederick L., assignor.)
United Shoe Machinery Company. (See Ambler, George A., assignor.)
United Shoe Machinery Company. (See Anderson, Frederick L., assignor.) (Reissue.)
United Shoe Machinery Company. (See Ashton, Orrell, assignor.)
United Shoe Machinery Company. (See Ashworth, Fred, assignor.)
United Shoe Machinery Company. (See Barclay and Bates, assignors.)
United Shoe Machinery Company. (See Barton and Landry, assignors.)
United Shoe Machinery Company. (See Bates, Arthur, assignor.)
United Shoe Machinery Company. (See Bates and Roberts, assignors.)
United Shoe Machinery Company. (See Bayley, Charles H., assignor.)
United Shoe Machinery Company. (See Bazzoni, Lewis J., assignor.)
United Shoe Machinery Company. (See Beckman, Frank E., assignor.)
United Shoe Machinery Company. (See Benjamin, John M., assignor.)
United Shoe Machinery Company. (See Bennion, Charles F., assignor.)
United Shoe Machinery Company. (See Bergman, Gustaf, assignor.)
United Shoe Machinery Company. (See Bertrand, Frederic E., assignor.)
United Shoe Machinery Company. (See Bond, William A., assignor.)
United Shoe Machinery Company. (See Borden, William H., assignor.)
United Shoe Machinery Company. (See Braden, Albert R., assignor.)
United Shoe Machinery Company. (See Bradley, Samuel M., assignor.)

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United Shoe Machinery Company. (See Bresnahan, Maurice V., assignor.)
United Shoe Machinery Company. (See Bresnahan, Timothy A., assignor.)
United Shoe Machinery Company. (See Briggs, Henry, assignor.)
United Shoe Machinery Company. (See Brock, Matthias, assignor.)
United Shoe Machinery Company. (See Brogan, Michael F., assignor.)
United Shoe Machinery Company. (See Brothers, Eli, assignor.)
United Shoe Machinery Company. (See Brown, Louis M., assignor.)
United Shoe Machinery Company. (See Brown and Gouldbourn, assignors.)
United Shoe Machinery Company. (See Burns, Robert J., assignor.)
United Shoe Machinery Company. (See Busell, John N., assignor.)
United Shoe Machinery Company. (See Cady and Thayer, assignors.)
United Shoe Machinery Company. (See Carnes, George M., assignor.)
United Shoe Machinery Company. (See Carter, George W., assignor.)
United Shoe Machinery Company. (See Casgrain, Louis A., assignor.)
United Shoe Machinery Company. (See Cavanagh, James, assignor.)
United Shoe Machinery Company. (See Chaplin and Marsh, assignors.)
United Shoe Machinery Company. (See Chaput, Wilfrid, assignor.)
United Shoe Machinery Company. (See Chick, Walter, assignor.)
United Shoe Machinery Company. (See Conlon, Bartholomew J., assignor.)
United Shoe Machinery Company. (See Cooper, Frederick A., assignor.)
United Shoe Machinery Company. (See Covell, George S., assignor.)
United Shoe Machinery Company. (See Crisp, Joseph E., assignor.)
United Shoe Machinery Company. (See Davenport, Eugene F., assignor.)
United Shoe Machinery Company. (See Davey, John F., assignor.)
United Shoe Machinery Company. (See Dorsey, Farnum F., assignor.)
United Shoe Machinery Company. (See Dow, John L., assignor.)
United Shoe Machinery Company. (See Drey, Wilfred J., assignor.)
United Shoe Machinery Company. (See Drown, Frank E., assignor.)
United Shoe Machinery Company. (See Eaton, Clarence L., assignor.)
United Shoe Machinery Company. (See Eaton, William G., assignor.)
United Shoe Machinery Company. (See Elliott, Alvin D., assignor.)
United Shoe Machinery Company. (See Ellison, Forrest L., assignor.)
United Shoe Machinery Company. (See Engberg, Arvid L., assignor.)
United Shoe Machinery Company. (See Engel, Karl, assignor.)
United Shoe Machinery Company. (See Eno, Frank F., assignor.) (Reissue.)
United Shoe Machinery Company. (See Enslin, Herbert E., assignor.)
United Shoe Machinery Company. (See Eppler, Andrew, assignor.)
United Shoe Machinery Company. (See Ewell, Frank E., assignor.)
United Shoe Machinery Company. (See Fletcher, Ira E., assignor.) (Reissue.)
United Shoe Machinery Company. (See Fletcher and MacLean, assignors.)
United Shoe Machinery Company. (See Fleury, Frank, assignor.)
United Shoe Machinery Company. (See Flynt, Louis W. G., assignor.)
United Shoe Machinery Company. (See Follansbee, Minot F., assignor.)
United Shoe Machinery Company. (See Forsyth, William R., assignor.)
United Shoe Machinery Company. (See Fowler, Alfred B., assignor.)
United Shoe Machinery Company. (See Foye, Cyrus D., assignor.)
United Shoe Machinery Company. (See Freeman, Louis G., assignor.)
United Shoe Machinery Company. (See Freese, Francis J., assignor.)
United Shoe Machinery Company. (See Funck, Philipp, assignor.)
United Shoe Machinery Company. (See Furber, Frederick M., assignor.)
United Shoe Machinery Company. (See Galloway, David E., assignor.)
United Shoe Machinery Company. (See Gilbert, Joseph B., assignor.)
United Shoe Machinery Company. (See Gillespie, John J., assignor.)
United Shoe Machinery Company. (See Glidden, John E., assignor.)
United Shoe Machinery Company. (See Goddu, George, assignor.)
United Shoe Machinery Company. (See Gordon, William, assignor.)
United Shoe Machinery Company. (See Gordon and Topham, assignors.)
United Shoe Machinery Company. (See Gorsuch, George J., assignor.)
United Shoe Machinery Company. (See Gouldbourn, Joseph, assignor.)
United Shoe Machinery Company. (See Graham, Charles E., assignor.)
United Shoe Machinery Company. (See Grush, Charles E., assignor.)
United Shoe Machinery Company. (See Hadaway, John B., assignor.)
United Shoe Machinery Company. (See Hadaway and Allen, assignors.)
United Shoe Machinery Company. (See Hallam, Harry, assignor.)
United Shoe Machinery Company. (See Halsey and Perkins, assignors.)
United Shoe Machinery Company. (See Harmon, Frank L., assignor.)
United Shoe Machinery Company. (See Hatch, Frank R., assignor.)
United Shoe Machinery Company. (See Hollander, Sven G., assignor.)
United Shoe Machinery Company. (See Holmes, Charles P., assignor.)
United Shoe Machinery Company. (See Housholder, Jack, assignor.)
United Shoe Machinery Company. (See Howe, Charles E., assignor.)
United Shoe Machinery Company. (See Jackson and Pochin, assignors.)
United Shoe Machinery Company. (See Jerram, Arthur E., assignor.)
United Shoe Machinery Company. (See Johnson, Carl G., assignor.)
United Shoe Machinery Company. (See Keall, Frank B., assignor.)
United Shoe Machinery Company. (See Keith, Thomas K., assignor.)
United Shoe Machinery Company. (See Keyes, Eugene L., assignor.)
United Shoe Machinery Company. (See Kingston, William H., assignor.) (Reissue.)
United Shoe Machinery Company. (See La Chapelle, Euclid I., assignor.)
United Shoe Machinery Company. (See La Chapelle, Fred, assignor.)
United Shoe Machinery Company. (See Littlefield, Augustine F., assignor.)
United Shoe Machinery Company. (See Lund, Thomas, assignor.)
United Shoe Machinery Company. (See Lynch, John M., assignor.)
United Shoe Machinery Company. (See Lyon, Harry, assignor.)
United Shoe Machinery Company. (See MacKenzie, Fred L., assignor.)
United Shoe Machinery Company. (See Macleod, Albert A., assignor.)
United Shoe Machinery Company. (See Manship, William, assignor.)
United Shoe Machinery Company. (See Matthews, Algernon W., assignor.)
United Shoe Machinery Company. (See Mayo, Benjamin F., assignor.)
United Shoe Machinery Company. (See Mayo, Thomas H., assignor.)
United Shoe Machinery Company. (See McFeely, Ronald F., assignor.)
United Shoe Machinery Company. (See McIsaac, John T., assignor.)
United Shoe Machinery Company. (See McPherson and Orr, assignors.)
United Shoe Machinery Company. (See Meyer, William C., assignor.)
United Shoe Machinery Company. (See Miller, Charles L., assignor.)
United Shoe Machinery Company. (See Moody, Fred M., assignor.)
United Shoe Machinery Company. (See Norden, Carl S., assignor.)
United Shoe Machinery Company. (See Olson, August, assignor.)
United Shoe Machinery Company. (See Orr, Edward E., assignor.)
United Shoe Machinery Company. (See Painchaud, Ludger, assignor.)

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United Shoe Machinery Company. (See Perri, Angelo, assignor.)
United Shoe Machinery Company. (See Perry, Frederick H., assignor.)
United Shoe Machinery Company. (See Plant, Thomas G., assignor.)
United Shoe Machinery Company. (See Plant, Thomas G., assignor.) (Reissue.)
United Shoe Machinery Company. (See Pope, Joseph H., assignor.)
United Shoe Machinery Company. (See Preble, Edwin N., assignor.)
United Shoe Machinery Company. (See Prenzel, Adam H., assignor.)
United Shoe Machinery Company. (See Prenzel, Adam H., assignor.) (Reissue.)
United Shoe Machinery Company. (See Preston, Albert F., assignor.)
United Shoe Machinery Company. (See Pride, John P., assignor.)
United Shoe Machinery Company. (See Pride and Bates, assignors.)
United Shoe Machinery Company. (See Prime, Daniel N., assignor.)
United Shoe Machinery Company. (See Prindle, Edwin J., assignor.)
United Shoe Machinery Company. (See Reed, William A., assignor.)
United Shoe Machinery Company. (See Rogers, Chester E., assignor.)
United Shoe Machinery Company. (See Rogers, Pearley B., assignor.)
United Shoe Machinery Company. (See Rollins, George L., assignor.)
United Shoe Machinery Company. (See Ross, John G., assignor.)
United Shoe Machinery Company. (See Rumney, Fred A., assignor.)
United Shoe Machinery Company. (See Russell, Arthur L., assignor.)
United Shoe Machinery Company. (See Sampson, George W., assignor.)
United Shoe Machinery Company. (See Shattuck, Charles E., assignor.)
United Shoe Machinery Company. (See Shaw, Linus H., assignor.)
United Shoe Machinery Company. (See Simmons, Ralph C., assignor.)
United Shoe Machinery Company. (See Small, Chester C., assignor.)
United Shoe Machinery Company. (See Smith, Robert B., assignor.)
United Shoe Machinery Company. (See Smith, Willard A., assignor.)
United Shoe Machinery Company. (See Snow, Stephen, assignor.)
United Shoe Machinery Company. (See Stewart, William C., assignor.)
United Shoe Machinery Company. (See Stiggins, Edward A., assignor.)
United Shoe Machinery Company. (See Stone, William E., assignor.)
United Shoe Machinery Company. (See Stuber, Benjamin F., assignor.)
United Shoe Machinery Company. (See Sundhoff, Hugo, assignor.)
United Shoe Machinery Company. (See Taft, Sydney E., assignor.)
United Shoe Machinery Company. (See Thayer, Joseph E., assignor.)
United Shoe Machinery Company. (See Tripp, Eliphalet A., assignor.)
United Shoe Machinery Company. (See Wald, Frank, assignor.)
United Shoe Machinery Company. (See Ward, Frank W., assignor.)
United Shoe Machinery Company. (See Warren, Frank H., assignor.)
United Shoe Machinery Company. (See Waterman, Bradford, B., assignor.) (Reissue.)
United Shoe Machinery Company. (See Weber and Beier, assignors.)
United Shoe Machinery Company. (See Wells, Charles S., assignor.)
United Shoe Machinery Company. (See Wells and Darnill, assignors.)
United Shoe Machinery Company. (See Wiggin, Joseph M., assignor.)
United Shoe Machinery Company. (See Wineberg, David L., assignor.)
United Shoe Machinery Company. (See Winkley, Erastus E., assignor.)
United Shoe Machinery Company. (See Winkley and Alley, assignors.)
United Shoe Machinery Company. (See Winter, Henry W., assignor.)
United Shoe Machinery Company. (See Wolfe, George F., assignor.)
United Shoe Machinery Company. (See Woodward, Erastus, assignor.)
United Shoe Machinery Company. (See Young, Edward J., assignor.)
United States Asbestos Company. (See Hill, Chester L., assignor.)
United States Asphalt Refining Company, The. (See Brennan, Paul C., assignor.)
United States Cabinet Bed Co. (See Schwartzman, Jacub, assignor.)
United States Chemical Co. (See Myers, Hubert A., assignor.)
United States Concentrating Company. (See King, Orrin H., assignor.)
United States Electrical Manufacturing Company. (See Johnson, Carl E., assignor.)
United States Envelope Company. (See Laubscher, August, assignor.)
United States Envelope Company. (See Swift, Willard E., assignor.)
United States Envelope Sealing Machine Company. (See Davis, Carl H., assignor.)
United States Gypsum Company, The. (See Utzman, Clarence W., assignor.)
United States Light and Heating Company, The. (See Bliss, William L., assignor.)
United States Light & Heating Company. (See Engel, Frank, assignor.)
United States Light & Heating Company, The. (See McElroy, James F., assignor.)
United States Metallic Packing Company. (See King, Charles W. G., assignor.)
United States Mortgage & Trust Company, trustee. (See Clawson, Clement C., assignor.)
United States Music Company. (See Friestedt, Arthur A., assignor.)
United States Phonograph Company, The. (See McNulty, Harry B., assignor.)
United States Phonograph Company, The. (See Towell, Thomas H., assignor.)
United States Printograph Company. (See Sorg and Duscher, assignors.)
United States Safety Gas Machine Company. (See Andres, J. Frank, assignor.)
United States Sanitary Manufacturing Company. (See McGuire and Fronk, assignors.)
United States Sherardizing Company. (See Burgess, Charles F., assignor.)
United States Steel Corporation. (See McMurtry, George G., assignor.)
United Steel Company, The. (See McConnell, John, assignor.)
United-Xpedite Finishing Company. (See Beaudry, Zotique, assignor.)
United-Xpedite Finishing Company. (See Buckle, John, assignor.)
United-Xpedite Finishing Company. (See Thomson, Robert W., assignor.)
Universal Automatic Electric Signaling Company. (See Harley, John S., assignor.)
Universal Draft Gear Attachment Co. (See Nash, Charles J., assignor.)
Universal Electric Welding Company. (See Lachman, Laurence S., assignor.)
Universal Machine Company, The. (See Baker, Arthur G., assignor.)
Universal Machine Screw Company, The. (See Spencer, Christopher M., assignor.)
Universal Metallic Tie Company. (See Rupp, Burton S., assignor.)
Universal Metallic Tie Company. (See Rupp and Johnson, assignors.)
Universal Speed Control Company, The. (See Pratt, Charles R., assignor.)
Universal Stamping Machine Company. (See Graham, George H., assignor.)
Universal Tobacco Machine Company. (See Day, Charles P., assignor.)
Universal Tobacco Machine Company. (See Deiller, Martin, assignor.)
Universal Tobacco Machine Company. (See Deiller, Martin and E. M., assignors.)
Universal Tool Company. (See Palmer, John M., assignor.)
Universal Trolley Wheel Company. (See Tetlow, Lewis J., assignor.)
Universal Type Making Machine Company. (See Nuernberger and Rettig, assignors.)
Universal Winding Company. (See Rand, Festus S., assignor.)
Universal Winding Company. (See Ryden, Claes, assignor.)
Universal Winding Company. (See Taylor, George N., assignor.)
Universal Winding Company. (See Wardwell, Simon W., assignor.)
Universal Wireless Telephone and Telegraph Company. (See McCarty, Douglas, and Herrguth, assignors.)
Unoka, Mike, *et al.* (See Szabados, Antony, assignor.)
Unsinger, Phillip H., Fremont, Ohio. Knife. No. 1,044,303; Nov. 12; Gaz. vol. 184; p. 470.

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Untch, George, Cleveland, Ohio. Hasp-fastener. No. 1,017,709; Feb. 20; Sp. p. 3214; Gaz. vol. 175; p. 577.
Unterloff, Otto, Oberschöneweide, assignor to Stahlwerk Becker Aktien-Gesellschaft, Willich, Crefeld, Germany. Milling-cutter. No. 1,019,564; Mar. 5; Sp. p. 1263; Gaz. vol. 176; p. 188.
Untermeyer-Robbins & Company. (See Robbins, Meyer L., assignor.)
Unverricht, Eduard, Hamburg, Germany. Train-stopping device. No. 1,036,753; Aug. 27; Gaz. vol. 181; p. 901.
Unverricht, Eduard, Hamburg, Germany. Automatic safety device for railways. No. 1,045,463; Nov. 26; Gaz. vol. 184; p. 932.
Unverzagt, Hermann, Nordhausen, Germany. Mortising-machine. No. 1,048,113; Dec. 24; Gaz. vol. 185; p. 901.
Upchurch, Walter M., Hurley, N. Mex. Cylinder and piston construction for internal-combustion engines. No. 1,038,238; Sept. 10; Gaz. vol. 182; p. 388.
Updegraff, Frank W. (See Hemenway and Updegraff.)
Updegraff, William H., San Diego, Cal. Saw-filing device. No. 1,036,167; Aug. 20; Gaz. vol. 181; p. 668.
Updike, Alfred B., San Francisco, Cal. Flagstaff. No. 1,036,168; Aug. 20; Gaz. vol. 181; p. 668.
Upham, Burt F., Evanston, Ill. Printing-press. No. 1,016,659; Feb. 6; Sp. p. 976; Gaz. vol. 175; p. 148.
Upham, Burt F., Evanston, Ill. Inking mechanism for flat-bed sheet-printing presses. No. 1,046,904; Dec. 10; Gaz. vol. 185; p. 423.
Upham, Burt F., assignor to Southgate Machinery Co., Boston, Mass. Bending printing-surfaces. No. 1,038,991; Sept. 17; Gaz. vol. 182; p. 683.
Upham, Charles C., Detroit, Mich. Reamer. No. 1,048,378; Dec. 24; Gaz. vol. 185; p. 990.
Upham, Robert B. (See Hammond, Grant, assignor.)
Upham, Sherman D., Chicago, Ill. Combined ventilating and station-annunciating means. No. 1,017,710; Feb. 20; Sp. p. 3215; Gaz. vol. 175; p. 578.
Upham, William P., Keene, N. H. Non-refillable bottle. No. 1,022,899; Apr. 9; Sp. p. 2438; Gaz. vol. 177; p. 417.
Upright Grain Printing Base Company. (See Hoge and Pitt, assignors.)
Upright Grain Printing Base Company. (See Hoge and Riebe, assignors.)
Upshaw, Lucius L., assignor of one-fifth to G. L. Blackford and one-fifth to P. H. Tobin, Denison, Tex. Cotton-harvester. No. 1,041,202; Oct. 15; Gaz. vol. 183; p. 583.
Upson, Delevan P., assignor to Upson Rotary Motor Co., Jacksonville, Fla. Rotary steam-engine. No. 1,022,570; Apr. 9; Sp. p. 1721; Gaz. vol. 177; p. 304.
Upson, Delevan P., assignor to Upson Rotary Motor Co., Jacksonville, Fla. Rotary steam-engine. No. 1,022,571; Apr. 9; Sp. p. 1723; Gaz. vol. 177; p. 304.
Upson, Maxwell M., Englewood, N. J. Concrete piling and piling units. No. 1,025,434; May 7; Sp. p. 711; Gaz vol. 178; p. 113.
Upson, Maxwell M., Englewood, N. J. Dock or bulkhead construction. No. 1,030,496; June 25; Sp. p. 5324; Gaz. vol. 179; p. 943.
Upson Rotary Motor Co. (See Upson, Delevan P., assignor.)
Uptegraff, Alexander G., Lenox, Mass. Antislipping device for the foot. No. 1,046,509; Dec. 10; Gaz. vol. 185; p. 287.
Uptegraff, Walter D., Pittsburgh, Pa. Apparatus for electric lighting. No. 1,044,950; Nov. 19; Gaz. vol. 184; p. 724.
Upton, Charles T., and G. S. Gilman, Lowell, assignors to P. E. Ginn, Winchester, Mass. Paper-box machine. No. 1,037,372; Sept. 3; Gaz. vol. 182; p. 65.
Upton, Colcord, Baltimore, Md., assignor to Simplex Roller Bearing Company, New York, N. Y. Antifriction-bearing. No. 1,022,163; Apr. 2; Sp. p. 870; Gaz. vol. 177; p. 138.
Upton, Frank B., assignor of one-fourth to W. E. Heron, Chattanooga, Tenn. Frame construction. No. 1,022,448; Apr. 9; Sp. p. 1471; Gaz. vol. 177; p. 264.
Upton, Frank B., assignor of one-third to W. E. Heron and one-third to S. T. Heron, Chattanooga, Tenn. Closure for tubing. No. 1,047,341; Dec. 17; Gaz. vol. 185; p. 609.
Upton, George W. (See Allyn, Newell O., assignor.)
Upton, George W. (See Bunker and Hempel, assignors.)
Upton, Henry J. (See Vaughn and Upton.)
Urban, Charles. (See Brown, Bessie K. and T., assignors.)
Urban, Charles F. (See Diener and Urban.)
Urban, Herman S., Richmond, Va. Sod-cutter. No. 1,020,230; Mar. 12; Sp. p. 2619; Gaz. vol. 176; p. 444.
Urbasch, Ottokar, Vienna, Austria-Hungary. Making bodies for sulfuring casks and the like. No. 1,042,057; Oct. 22; Gaz. vol. 183; p. 907.
Urchniak, Rudolph, and G. Werhnjak, assignors of one-third to H. Tschernitz, Milwaukee, Wis. Fire-alarm. No. 1,014,922; Jan. 16; Sp. p. 4091; Gaz. vol. 174; p. 690.
Urdahl, Arent C., Viroqua, Wis. Tobacco self-transplanter. No. 1,044,304; Nov. 12; Gaz. vol. 184; p. 470.
Ure, John F. F. W., Chelsea, London, England. Aerial and other vessel and vehicle. No. 1,021,116; Mar. 26; Sp. p. 4468; Gaz. vol. 176; p. 826.
Urell, Thomas J. (See Meinhardt, Hans A., assignor.)
Uren, Gustav H. W., assignor to Aachener Stahlwaarenfabrik Fafnir-Werke Aktiengesellschaft, Aachen, Germany. Reversing device for multicylinder internal-combustion engines. No. 1,017,350; Feb. 13; Sp. p. 2478; Gaz. vol. 175; p. 420.
Urgellés, José M., Baracoa, Cuba. Machine for removing pulp from coffee-berries. No. 1,038,031; Sept. 10; Gaz. vol. 182; p. 320.
Urgellés, José M., Baracoa, Cuba. Treating coffee-berries. No. 1,038,032; Sept. 10; Gaz. vol. 182; p. 321.
Urie, John, Bayonne, N. J., assignor to L. G. B. Erb and J. A. Golden. Web or film feeding mechanism. No. 1,043,275; Nov. 5; Gaz. vol. 184; p. 81.
Urmey, Joseph G. (See Axsiom, Andrew J., assignor.)
Urschel, Jacob J. (See Malinovszky, Andrew, assignor.)
Uschold, Marta, Berlin, Germany. Bed-ventilating device. No. 1,036,938; Aug. 27; Gaz. vol. 181; p. 961.
Usher, Charles H., assignor of one-half to F. D. Howard, Chicopee Falls, Mass. Stop-motion for planers and the like. No. 1,027,575; May 28; Sp. p. 5463; Gaz. vol. 178; p. 955.
Ussery, Zachariah W., Juliette, Ga. Bed-lock. No. 1,049,174; Dec. 31; Gaz. vol. 185; p. 1301.
Utah Aerial Navigation and Power Company. (See Flanigan, David A., assignor.)
Utech, William, Sanford, Fla. Harness-buckle. No. 1,029,834; June 18; Sp. p. 3839; Gaz. vol. 179; p. 674.
Utech, William, Sanford, Fla. Harness-buckle. No. 1,034,326; July 30; Gaz. vol. 180; p. 1339.
Uthman, George B. (See Meyer, Frederick L., assignor.)
Utica Lawn Trimmer Company. (See Nelson and Watkins, assignors.)
Utility Advertising Company. (See Sleeper, Joseph J., assignor.)
Utley, Arthur B., Springfield, Mo. Valve. No. 1,035,663; Aug. 13; Gaz. vol. 181; p. 457.
Utne, Per, Edgewood Park, assignor to The Union Switch & Signal Company, Swissvale, Pa. Clutch-controlling device. No. 1,017,825; Feb. 20; Sp. p. 3517; Gaz. vol. 175; p. 618.
Utter, John F. (See Utter, Joseph A., assignor.)
Utter, Joseph A., Crawfordsville, Ind., assignor of one-half to J. F. Utter, San Francisco, Cal. Rubber-tire protector. No. 1,046,686; Dec. 10; Gaz. vol. 185; p. 349.
Utterback, Ival R., W. C. Springer, Jr., and W. L. Galbraith, Vancouver, Wash. Attachment for tea-kettles. No. 1,018,854; Feb. 27; Sp. p. 5814; Gaz. vol. 175; p. 1005.
Utz, Anthony, Hartford, Conn., assignor to Royal Typewriter Company, New York, N. Y. Type-writing machine. No. 1,028,159; June 4; Sp. p. 181; Gaz. vol. 179; p. 27.
Utz, John G., assignor to Chalmers-Detroit Motor Company, Detroit, Mich. Explosion-engine. No. 1,014,270; Jan. 9; Sp. p. 2621; Gaz. vol. 174; p. 437.
Utz, John G., assignor to Chalmers-Detroit Motor Company, Detroit, Mich. Explosion-engine. No. 1,015,101; Jan. 16; Sp. p. 4463; Gaz. vol. 174; p. 751.
Utzman, Clarence W., assignor to The United States Gypsum Company, Chicago, Ill. Manufacturing plaster-board. No. 1,029,328; June 11; Sp. p. 2733; Gaz. vol. 179; p. 462.
Utzman, Clarence W., assignor to The United States Gypsum Company, Chicago, Ill. Plaster-board. No. 1,034,746; Aug. 6; Gaz. vol. 181; p. 115.
V. Weber & Company. (See Freas, Thomas B., assignor.)
V. M. Sales Co. (See Bryant, Cyrus A., assignor.)
Vaaler, Jens, assignor to The Clemetsen Company, Chicago, Ill. Type-writer desk. No. 1,035,664; Aug. 13; Gaz. vol. 181; p. 457.
Vaccarezza, John B., Spring Lake, N. J. Fusible link. No. 1,014,677; Jan. 16; Sp. p. 3551; Gaz. vol. 174; p. 607.
Vacek, Vinzenz M., Vienna, Austria-Hungary. Game apparatus. No. 1,016,187; Jan. 30; Sp. p. 6763; Gaz. vol. 174; p. 1176.
Vaco Manufacturing Co. (See Hazelrigg, Ross, assignor.)
Vacuum-Adhesine-Gesellschaft m. b. H. (See Militz, August, assignor.)
Vacuum Car Ventilating Company. (See Cooke, Dwight I., assignor.)
Vacuum Dyeing Machine Company. (See Hey, David M., assignor.)
Vadebonceur, Antoine F. (See Latulip, Fred, assignor.)
Vahl, Gus W., Donnybrook, N. D. Milking-apron. No. 1,023,974; Apr. 23; Sp. p. 4730; Gaz. vol. 177; p. 839.
Vahle, Ernest, West Hoboken, N. J., assignor, by mesne assignments, to A. Schrader's Sons, Incorporated, New York, N. Y. Turret-lathe. No. 1,041,203; Oct. 15; Gaz. vol. 183; p. 583.
Vail, Arthur C., Selah, Wash. Pneumatic spring for vehicles. No. 1,029,644; June 18; Sp. p. 3406; Gaz. vol. 179; p. 606.
Vaile and Kimes Company, The. (See Kimes, Hugh W., assignor.)

Alphabetical list of patentees—Continued.

Vale, Andrew M., Sheridanville, Pa. Film attachment for cameras. No. 1,036,385; Aug. 20; Gaz. vol. 181; p. 745.
Valentin, Auguste, J. Zerreiss, and H. Georges, Puteaux, France. Printing-machine. No. 1,014,923; Jan. 16; Sp. p. 4093; Gaz. vol. 174; p. 691.
Valentin, Auguste, J. Zerreiss, and H. Georges, Puteaux, France. Apparatus for printing engravings in intaglio. No. 1,023,773; Apr. 16; Sp. p. 4226; Gaz. vol. 177; p. 743.
Valentine, Albert, Thurman, Iowa. Flying-machine. No. 1,015,656; Jan. 23; Sp. p. 5660; Gaz. vol. 174; p. 967.
Valentine, Joseph E. (See Ljungkrantz, Hilding, assignor.)
Valentine, Levi J., assignor of one-half to D. Heffelfinger and J. E. Lancaster, Plainview, Tex. Door-strip. No. 1,028,801; June 4; Sp. p. 1574; Gaz. vol. 179; p. 246.
Valentine, Ralph E., Worcester, Mass. Preparing cereal food products. No. 1,034,169; July 30; Gaz. vol. 180; p. 1285.
Valentine, Robert D., and H. S. Battee, assignors to Imperial Machinery Company, Minneapolis, Minn. Bearing-adjusting means. No. 1,024,871; Apr. 30; Sp. p. 6742; Gaz. vol. 177; p. 1186.
Valentine, Warren R., Ford City, Pa. Briqueting. No. 1,024,428; Apr. 23; Sp. p. 5707; Gaz. vol. 177; p. 993.
Valentine, Warren R., Ford City, Pa. Annealing-leer for glass articles. No. 1,025,936; May 7; Sp. p. 1849; Gaz. vol. 178; p. 285.
Valentine, William M., Glen Cove, N. Y. Wringer. No. 1,027,363; May 21; Sp. p. 5019; Gaz. vol. 178; p. 845.
Valenza, Gandolfo, Hastings, Colo. Wrench. No. 1,019,204; Mar. 5; Sp. p. 437; Gaz. vol. 176; p. 69.
Valiquet, Louis P., Newark, N. J. Artificial ear-drum. No. 1,045,917; Dec. 3; Gaz. vol. 185; p. 42.
Vallat, Charles E. J. de, Paris, France. Propeller. No. 1,042,506; Oct. 29; Gaz. vol. 183; p. 1086.
Vallée, Georges T., Paris, France. Buffer for use with wood paving. No. 1,028,802; June 4; Sp. p. 1575; Gaz. vol. 179; p. 246.
Vallet, Victor, Paris, France. Road-map. No. 1,033,292; July 23; Gaz. vol. 180; p. 962.
Vallier, John J., Chicago, Ill. Hat-pin guard. No. 1,020,784; Mar. 19; Sp. p. 3790; Gaz. vol. 176; p. 664.
Vallone, Charles, assignor to Barcalo Manufacturing Company, Buffalo, N. Y. Joint for the tubes of bedstead and other frames. No. 1,021,437; Mar. 26; Sp. p. 5185; Gaz. vol. 176; p. 938.
Vallone, Charles, and F. R. Rogers, assignors to Barcalo Manufacturing Company, Buffalo, N. Y. Apparatus for heating tubes, rods, or the like. No. 1,033,497; July 23; Gaz. vol. 180; p. 1028.
Valloppi, Eugene, Scranton, Pa. Throttle-valve. No. 1,013,242; Jan. 2; Sp. p. 333; Gaz. vol. 174; p. 53.
Valois, Joseph, A. and A. Groise, Holyoke, Mass. Spark-plug tester. No. 1,033,498; July 23; Gaz. vol. 180; p. 1029.
Van Aken, John C., Ridgway, Pa., assignor to Van Aken Manufacturing Company. Sled. No. 1,040,061; Oct. 1; Gaz. vol. 183; p. 130.
Van Aken Manufacturing Company. (See Van Aken, John C., assignor.)
Van Akin, Samuel L., Jr., Liverpool, N. Y. Telephone system. No. 1,021,494; Mar. 26; Sp. p. 5311; Gaz. vol. 176; p. 957.
Van Aller, Tycho. (See Andrews and Van Aller.)
Van Aller, Tycho, Schenectady, N. Y., assignor to General Electric Company. Electric heating unit. No. 1,024,234; Apr. 23; Sp. p. 5322; Gaz. vol. 177; p. 932.
Van Alstyne, Matthew, Albany, N. Y. Portable apparatus for heating a binder for road construction. No. 1,033,131; July 23; Gaz. vol. 180; p. 907.
Van Altena, Henry, New Brunswick, N. J. Chromatrope. No. 1,041,380; Oct. 15; Gaz. vol. 183; p. 643.
Van Arnam Manufacturing Company. (See Porsch, George B., assignor.)
Van Atta, Jeff D., Ashfork, Ariz. Resilient vehicle-wheel. No. 1,030,946; July 2; Gaz. vol. 180; p. 33.
Van Auken, Byron E. (See Probst, Alfred H., assignor.)
Van Berkel, Johannes C., Zurich, Switzerland. Meat-clamp for meat-slicing machines. No. 1,017,274; Feb. 13; Sp. p. 2322; Gaz. vol. 175; p. 395.
Van Bever, Edmond, Watertown, Mass. Expansible piston. No. 1,031,212; July 2; Gaz. vol. 180; p. 129.
Van Boven, Edward T., Redlands, Cal. Cultivator. No. 1,019,382; Mar. 5; Sp. p. 883; Gaz. vol. 176; p. 130.
Van Brunt, Abram, Bridgeport, Conn. Suspender-buckle. No. 1,021,018; Mar. 26; Sp. p. 4276; Gaz. vol. 176; p. 794.
Van Brunt, Charles, Schenectady, N. Y., assignor to General Electric Company. Making molded conductors. No. 1,017,483; Feb. 13; Sp. p. 2775; Gaz. vol. 175; p. 468.
Van Brunt, Willard A., Horicon, Wis. Grain-tube for seeding-machines. No. 1,013,338; Jan. 2; Sp. p. 550; Gaz. vol. 174; p. 88.
Van Brunt, Willard A., Horicon, Wis. Grain-drill. No. 1,018,220; Feb. 20; Sp. p. 4408; Gaz. vol. 175; p. 757.
Van Buren, George L., assignor, by mesne assignments, to J. M. Jones, Kansas City, Mo. Coin-controlled vending-machine. No. 1,020,000; Mar. 12; Sp. p. 2121; Gaz. vol. 176; p. 365.
Van Buren, George L., assignor, by mesne assignments, to National Cigar Company, Kansas City, Mo. Coin-controlled cigar-vending machine. No. 1,024,478; Apr. 23; Sp. p. 5825; Gaz. vol. 177; p. 1012.
Van Cleave, Arville A., *et al.* (See Pugh, Cortez V., assignor.)
Van Cleave, John O., Sidney, Colo. Hay-stacker. No. 1,038,992; Sept. 17; Gaz. vol. 182; p. 683.
Van Cleave, William F., and A. T. Woodall, Dallas, Tex. Device for holding trolley-poles on wires. No. 1,017,711; Feb. 20; Sp. p. 3216; Gaz. vol. 175; p. 578.
Van den Heuvel, William, Los Angeles, Cal. Sluice-gate. No. 1,028,640; June 4; Sp. p. 1244; Gaz. vol. 179; p. 191.
Van Denburg, Jesse, Cortland, N. Y. Clamp. No. 1,036,386; Aug. 20; Gaz. vol. 181; p. 745.
Van der Least, William, Laona, Wis. Automatic steam-feed and piston-rod support. No. 1,042,849; Oct. 29; Gaz. vol. 183; p. 1206.
Van der Meersch, Oscar, Richmond, Va. Gripper for printing-presses. No. 1,031,746; July 9; Gaz. vol. 180; p. 354.
Van der Meersch, Oscar, Richmond, Va. Mixing-machine. No. 1,037,810; Sept. 3; Gaz. vol. 182; p. 210.
Van der Toorn, Jacobus J. W. H., The Hague, Netherlands. Extraction of gold from clay. No. 1,033,359; July 23; Gaz. vol. 180; p. 984.
Van der Walt, Jacobus, Witpoortje, Transvaal. Animal-trap. No. 1,031,892; July 9; Gaz. vol. 180; p. 405.
Van Derwerken, Theodore E., Green Island, assignor of one-half to J. E. Brooks and C. C. Finch, Albany, N. Y. Resilient wheel. No. 1,044,951; Nov. 19; Gaz. vol. 184; p. 724.
Van Derzee, William, assignor of one-half to R. Roemer, New York, N. Y. Davenport. No. 1,043,552; Nov. 5; Gaz. vol. 184; p. 182.
Van Deursen, Cornelius W., Nimwegen, Netherlands. Propelling device for water and air vessels. No. 1,029,776; June 18; Sp. p. 3704; Gaz. vol. 179; p. 653.
Van Devander, Abram H., and J. E. Moore, Cedartown, Ga. Cloth-laying machine. No. 1,031,145; June 18; Sp. p. 4510; Gaz. vol. 179; p. 779.
Van Deventer, James E. (See Van Deventer-Smith and Van Deventer.)
Van Deventer, John H., assignor to Buffalo Forge Company, Buffalo, N. Y. Rotary engine. No. 1,026,887; May 21; Sp. p. 3960; Gaz. vol. 178; p. 682.
Van Deventer, John H., assignor to Buffalo Forge Company, Buffalo, N. Y. Rotary engine. No. 1,046,687; Dec. 10; Gaz. vol. 185; p. 349.
Van Deventer-Smith, Nellie, Indianapolis, and J. E. Van Deventer, Anderson, Ind. Work-holder for sewing-machines. No. 1,020,581; Mar. 19; Sp. p. 3352; Gaz. vol. 176; p. 596.
Van Dorn & Dutton Company, The. (See Dunfee, John C., assignor.)
Van Dorn & Dutton Company, The. (See Schneider, Franklin, assignor.)
Van Duyne, Frank, St. Paul, Minn. Refrigerator show-case. No. 1,023,975; Apr. 23; Sp. p. 4731; Gaz. vol. 177; p. 839.
Van Duyne, Richard D., assignor to Gold Buckle Association, East Highlands, Cal. Fruit-grading machine. No. 1,031,403; July 2; Gaz. vol. 180; p. 194.
Van Dyke, George C. (See Luce and Van Dyke.)
Van Egeren, Theodore, Glenburnie, Md. Plow. No. 1,021,117; Mar. 26; Sp. p. 4471; Gaz. vol. 176; p. 826.
Van Etten, Frank C., Davenport, Iowa. Insulator. No. 1,013,241; Jan. 2; Sp. p. 332; Gaz. vol. 174; p. 53.
Van Eyck, Henry R., Holland, Mich. Stone-catcher for flumes. No. 1,037,809; Sept. 3; Gaz. vol. 182; p. 210.
Van Fleet, Alfred, Joliet, assignor to W. E. Pratt, Chicago, Ill. Lifting-jack. No. 1,048,768; Dec. 31; Gaz. vol. 185; p. 1163.
Van Fleet, Walter N., Boonton, N. J. Sectional heater-base. No. 1,040,469; Oct. 8; Gaz. vol. 183; p. 298.
Van Herdman, Albert, assignor to C. F. Werner, New York, N. Y. Ventilating-port for ships. No. 1,028,160; June 4; Sp. p. 182; Gaz. vol. 179; p. 27.
Van Hoevenberg, Henry, Lake Placid, N. Y. Steeple-chase-puzzle. No. 1,013,522; Jan. 2; Sp. p. 941; Gaz. vol. 174; p. 151.
Van Hook, Franklin P., Caldwell, Idaho. Post-mold. No. 1,017,026; Feb. 13; Sp. p. 1764; Gaz. vol. 175; p. 307.
Van Hook, Kate, Hiawatha, Kans. Massage apparatus. No. 1,042,058; Oct. 22; Gaz. vol. 183; p. 907.
Van Horn, Thomas M., Chicago, Ill., and L. E. Endsley, La Fayette, assignors to American Spark Arrester Company, Indianapolis, Ind. Spark-arrester. No. 1,030,947; July 2; Gaz. vol. 180; p. 33.
Van Horn, Vandiver J., assignor to Union Special Machine Company, Chicago, Ill. Seam for sewed articles. No. 1,026,332; May 14; Sp. p. 2745; Gaz. vol. 178; p. 458.
Van Horn, Vandiver J., assignor to Union Special Machine Company, Chicago, Ill. Ornamental-stitch sewing-machine. No. 1,046,510; Dec. 10; Gaz. vol. 185; p. 287.
Van Horn, Vandiver J., assignor to Union Special Machine Company, Chicago, Ill. Ornamental-stitch sewing-machine. No. 1,046,905; Dec. 10; Gaz. vol. 185; p. 424.

Van Horn, Vandiver J., assignor to Union Special Machine Company, Chicago, Ill. Ornamental-stitch sewing-machine. No. 1,048,916; Dec. 31; Gaz. vol. 185; p. 1214.
Van Horn, William H. (See Kemp and Van Horn.)
Van Horn, William H., assignor to C. M. Kemp, Baltimore, Md. Brazing-burner. No. 1,033,967; July 30; Gaz. vol. 180; p. 1214.
Van Horne, Alfred L. (See Johnson, Martin M., assignor.)
Van Housen, William R., and H. A. Bower, Erwin, Tenn. Car-truck side frame. No. 1,044,305; Nov. 12; Gaz. vol. 184; p. 471.
Van Houten, Frank H., Jr., assignor to Dutchess Tool Company, Fishkill-on-the-Hudson, N. Y. Dough-dividing machine. No. 1,028,406; June 4; Sp. p. 754; Gaz. vol. 179; p. 114.
Van Kannel, Benjamin F., New York, N. Y. Amusement apparatus called Indian trip. No. 1,021,019; Mar. 26; Sp. p. 4278; Gaz. vol. 176; p. 794.
Van Kannel Revolving Door Company. (See Dyer, Harry W., assignor.)
Van Kannel Revolving Door Company. (See Haviland, Edward C., assignor.)
Van Kannel Revolving Door Company. (See Quay, David M., assignor.)
Van Keuren, Charles E. (See Wickman, Henry J., assignor.)
Van Leuven, Edward C. (See Whitney and Van Leuven.)
Van Middlesworth, William. (See Hunt, Ozello R., assignor.)
Van Mill, John, Jr., Gladstone, Mich. Scoring attachment for veneer-lathes. No. 1,027,298; May 21; Sp. p. 4891; Gaz. vol. 178; p. 823.
Van Ness Alarm Sprinkler Co. (See Van Ness, Eugene D., assignor.)
Van Ness, Eugene D., Hoboken, N. J., assignor to V. Garrett, New York, N. Y. Automatic sprinkler system. No. 1,014,349; Jan. 9; Sp. p. 2814; Gaz. vol. 174; p. 466.
Van Ness, Eugene D., Hoboken, N. J., assignor to Van Ness Alarm Sprinkler Co. Water flow and leakage detector. No. 1,032,971; July 16; Gaz. vol. 180; p. 813.
Van Ness, Frank W., assignor to F. J. Matchette, Milwaukee, Wis. Lubricating system and apparatus. No. 1,019,103; Mar. 5; Sp. p. 206; Gaz. vol. 176; p. 33.
Van Ness, Frank W., assignor to F. J. Matchette, Milwaukee, Wis. Vacuum cleaning system. No. 1,048,917; Dec. 31; Gaz. vol. 185; p. 1214.
Van Ness, Henry E., Elmira, N. Y. Drill-chuck. No. 1,042,507; Oct. 29; Gaz. vol. 183; p. 1087.
Van Ness, Henry E., and W. T. Kneale, Elmira, N. Y. Coaster-brake. No. 1,041,914; Oct. 22; Gaz. vol. 183; p. 860.
Van Noorden, Ezekiel, Boston, Mass. Device for operating windows or shutters. No. 1,049,008; Dec. 31; Gaz. vol. 185; p. 1246.
Van Noorden, Ezekiel, Boston, Mass. Combined trough and glass-support for glazed structures. No. 1,049,009; Dec. 31; Gaz. vol. 185; p. 1247.
Van Noorden, Ezekiel, Boston, Mass. Device for operating windows or shutters. No. 1,049,175; Dec. 31; Gaz. vol. 185; p. 1302.
Van Nortwick, George W. (See Sherlock, Edward D., assignor.)
Van Nostrand, William, Dalton, N. Y. Grinding-machine. No. 1,040,470; Oct. 8; Gaz. vol. 183; p. 298.
Van Ormer, Ner M., Ryde, Pa. Nut-lock. No. 1,018,855; Feb. 27; Sp. p. 5815; Gaz. vol. 175; p. 1005.
Van Pelt, Ada H., Los Angeles, Cal. Electric water purifier and filter. No. 1,020,001; Mar. 12; Sp. p. 2126; Gaz. vol. 176; p. 365.
Van Pelt, Milner, Sabina, Ohio. Wagon. No. 1,014,540; Jan. 9; Sp. p. 3168; Gaz. vol. 174; p. 527.
Van Praag, Leonidas A. (See Lindeman, Max, assignor.)
Van Raalte, Frank. (See Wolfe, Walter G., assignor.)
Van Rensselaer, Allen, and F. H. Tenney, Spokane, Wash. Elapse-time computer and century-calendar machine. No. 1,041,204; Oct. 15; Gaz. vol. 183; p. 584.
Van Riper, Lewis C., New York, N. Y. Starting device for explosive-engines. No. 1,044,952; Nov. 19; Gaz. vol. 184; p. 724.
Van Riper, Lewis C., New York, N. Y. Starting device for explosive-engines. No. 1,046,407; Dec. 3; Gaz. vol. 185; p. 213.
Van Riper, Lewis C., and A. Novick, New York, N. Y.; said Novick assignor to said Van Riper. Starting mechanism for explosive-engines. No. 1,045,344; Nov. 26; Gaz. vol. 184; p. 890.
Van Sant, William S., and J. R. Banker, assignors to The Eureka Amusement Co., Oakland, Cal. Amusement apparatus. No. 1,026,333; May 14; Sp. p. 2746; Gaz. vol. 178; p. 459.
Van Sants, Benjamin. (See Bennett, Dwight W., assignor.)
Van Sickel, Wilber H., Philadelphia, Pa., assignor to Thos. H. Dallett Co. Polisher or abrader. No. 1,017,237; Feb. 13; Sp. p. 2249; Gaz. vol. 175; p. 382.
Van Sickle, Emmett. (See Chase and Van Sickle.)
Van Smith, Charles, Kansas City, Mo. Vehicle wheel-tire. No. 1,040,471; Oct. 8; Gaz. vol. 183; p. 298.
Van Sweringen, Frank H., Chicago, Ill. Car-truck. No. 1,029,325; June 11; Sp. p. 2725; Gaz. vol. 179; p. 461.
Van Tassel, John R., assignor to Standard Optical Company, Geneva, N. Y. Eyeglass-mounting. No. 1,025,847; May 7; Sp. p. 1612; Gaz. vol. 178; p. 255.
Van Tassel, John R., assignor to The Standard Optical Company, Geneva, N. Y. Eyeglasses. No. 1,040,062; Oct. 1; Gaz. vol. 183; p. 130.
Van Tubbergan, Cornelius, and P. Westrate, Grand Rapids, Mich. Starter for internal-combustion engines. No. 1,027,087; May 21; Sp. p. 4463; Gaz. vol. 178; p. 752.
Van Valkenburg, Levi D., Holyoke, Mass. Filter. No. 1,041,915; Oct. 22; Gaz. vol. 183; p. 860.
Van Valkenburg, Randall T., Geneva, N. Y. Gate. No. 1,028,641; June 4; Sp. p. 1246; Gaz. vol. 179; p. 192.
Van Venschoten, Vincent. (See Mezger and Van Venschoten.)
Van Verst, George, and M. A. Sooy, Holland, Mich. Combined draftless window-ventilator and shade and curtain protector. No. 1,027,015; May 21; Sp. p. 4260; Gaz. vol. 178; p. 726.
Van Viersen, Jacob H., The Hague, Netherlands. Non-capsizing boat. No. 1,028,644; June 4; Sp. p. 1252; Gaz. vol. 179; p. 193.
Van Vleck, Horace R., Montclair, N. J. Gas-engine. No. 1,048,918; Dec. 31; Gaz. vol. 185; p. 1215.
Van Vliet, John J., Chicago, Ill. Hat-pin guard. No. 1,041,381; Oct. 15; Gaz. vol. 183; p. 643.
Van Vloten, Allart. (See Guye, Darier, and Van Vloten.)
Van Vranken, Jay, Davenport, Iowa. Self-propelled plow. No. 1,043,174; Nov. 5; Gaz. vol. 184; p. 46.
Van Vranken, Jay, Davenport, Iowa. Plow-disk. No. 1,043,175; Nov. 5; Gaz. vol. 184; p. 47.
Van Wagenen, Edward, New York, N. Y., assignor to Gould Storage Battery Company. Battery-charge indicator. No. 1,013,465; Jan. 2; Sp. p. 820; Gaz. vol. 174; p. 131.
Van Wagoner, Cassius C. (See Hemmeter, Henry C., assignor.)
Van Wart, Irving R., London, England. Cattle-branding instrument. No. 1,022,986; Apr. 9; Sp. p. 2631; Gaz. vol. 177; p. 448.
Van Westrum, Leonard S., Brantford, Ontario, Canada. Making a viscous liquid material. No. 1,016,801; Feb. 6; Sp. p. 1269; Gaz. vol. 175; p. 195.
Van Wie, Henry, San Francisco, Cal. Flying-machine. No. 1,048,239; Dec. 24; Gaz. vol. 185; p. 942.
Van Wienen, Pieter, Cologne, Germany. Suction and pressure dredger. No. 1,038,049; Sept. 10; Gaz. vol. 182; p. 326.
Van Wormer, Arba, assignor to Horton Manufacturing Company, Fort Wayne, Ind. Gearing. No. 1,038,239; Sept. 10; Gaz. vol. 182; p. 388.
Van Wye, Garry P., New York, N. Y. Soap-dispenser. No. 1,048,919; Dec. 31; Gaz. vol. 185; p. 1215.
Van Zandt, Edwin G., St. Louis, Mo. Gas-burner. (Reissue.) No. 13,387; Mar. 19; Sp. p. 4148; Gaz. vol. 176; p. 724.
Van Zandt, Edwin G., assignor to Van Zandt Gas Appliance Company, St. Louis, Mo. Gas-burner. No. 1,045,464; Nov. 26; Gaz. vol. 184; p. 933.
Van Zandt, Edwin G., assignor to Van Zandt Gas Appliance Company, St. Louis, Mo. Gas-burner. No. 1,045,465; Nov. 26; Gaz. vol. 184; p. 933.
Van Zandt, Edwin G., assignor to Van Zandt Gas Appliance Company, St. Louis, Mo. Gas-grate. No. 1,045,466; Nov. 26; Gaz. vol. 184; p. 933.
Van Zandt, Edwin G., assignor to Van Zandt Gas Appliance Company, St. Louis, Mo. Gas-burner. No. 1,045,467; Nov. 26; Gaz. vol. 184; p. 933.
Van Zandt, Edwin G., assignor to Van Zandt Gas Appliance Company, St. Louis, Mo. Gas-burner. No. 1,045,468; Nov. 26; Gaz. vol. 184; p. 934.
Van Zandt, Edwin G., assignor to Van Zandt Gas Appliance Company, St. Louis, Mo. Gas-burner. No. 1,045,469; Nov. 26; Gaz. vol. 184; p. 934.
Van Zandt, Edwin G., assignor to Van Zandt Gas Appliance Company, St. Louis, Mo. Gas-burner. No. 1,045,470; Nov. 26; Gaz. vol. 184; p. 935.
Van Zandt, Edwin G., assignor to Van Zandt Gas Appliance Company, St. Louis, Mo. Gas-burner. No. 1,045,471; Nov. 26; Gaz. vol. 184; p. 935.
Van Zandt, Edwin G., assignor to Van Zandt Gas Appliance Company, St. Louis, Mo. Gas-burner. No. 1,045,472; Nov. 26; Gaz. vol. 184; p. 935.
Van Zandt, Edwin G., assignor to Van Zandt Gas Appliance Company, St. Louis, Mo. Gas-burner. No. 1,045,473; Nov. 26; Gaz. vol. 184; p. 936.
Van Zandt, Edwin G., assignor to Van Zandt Gas Appliance Company, St. Louis, Mo. Gas-burner. No. 1,045,474; Nov. 26; Gaz. vol. 184; p. 936.
Van Zandt, Edwin G., assignor to Van Zandt Gas Appliance Company, St. Louis, Mo. Gas-burner. No. 1,045,475; Nov. 26; Gaz. vol. 184; p. 936.
Van Zandt Gas Appliance Company. (See Van Zandt, Edwin G., assignor.)
Van Zandt, Luther H., Fort Worth, Tex. Semaphore. No. 1,014,985; Jan. 16; Sp. p. 4231; Gaz. vol. 174; p. 712.
Van Zandt, Nelson L., St. Louis, Mo. Water-heater. No. 1,038,802; Sept. 17; Gaz. vol. 182; p. 619.

Alphabetical list of patentees—Continued.

Vandenbossche, Peter F., Harrison township, Macomb county, Mich. Shotgun-barrel. No. 1,013,974; Jan. 9; Sp. p. 1981; Gaz. vol. 174; p. 335.
Vander Haeghen, Georges, Liege, Belgium. Small-arm. No. 1,024,932; Apr. 30; Sp. p. 6870; Gaz. vol. 177; p. 1207.
Vander Haeghen, Georges, Liege, Belgium. Small-arm. No. 1,024,933; Apr. 30; Sp. p. 6872; Gaz. vol. 177; p. 1207.
Vanderali, Edward, and J. Litmer, Adrian, Minn. Whistling-machine. No. 1,020,859; Mar. 19; Sp. p. 3958; Gaz. vol. 176; p. 689.
Vanderbeek, Abraham, Hartford, Conn. Vise. No. 1,039,337; Sept. 24; Gaz. vol. 182; p. 819.
Vanderburg, Charlie L., assignor to H. A. Vanderburg, Hutchinson, Kans. Wireless means for controlling aeroplanes. No. 1,032,968; July 16; Gaz. vol. 180; p. 812.
Vanderburg, Harriet A. (See Vanderburg, Charlie L., assignor.)
Vandercook, Robert O., Fruitvale, Cal. Machine for printing proofs. No. 1,042,848; Oct. 29; Gaz. vol. 183; p. 1205.
Vanderheiden, Theodore J., Humphrey, Nebr. Apparatus for utilizing wells and the like as refrigerators. No. 1,033,499; July 23; Gaz. vol. 180; p. 1029.
Vanderveer, Jean J., Concord, Mass. Packing-case. No. 1,039,225; Sept. 24; Gaz. vol. 182; p. 779.
Vanderveld, Anthony, assignor to Grand Rapids Show Case Company, Grand Rapids, Mich. Display device. No. 1,032,969; July 16; Gaz. vol. 180; p. 812.
Vanderveld, Anthony, assignor to Grand Rapids Show Case Company, Grand Rapids, Mich. Show-case leg. No. 1,032,970; July 16; Gaz. vol. 180; p. 812.
Vanderweel, Cornelius. (See Deurloo and Vanderweel.)
Vandonk, Cornelius H., Wells, Mich. Car-stake and pocket. No. 1,024,608; Apr. 30; Sp. p. 6192; Gaz. vol. 177; p. 1092.
Vanhook, Henry B., Washington, N. C. Guard for pedal-openings of pianos. No. 1,027,297; May 21; Sp. p. 4890; Gaz. vol. 178; p. 822.
Vanier, George P., Steelton, Pa. Potash-bulb. No. 1,034,170; July 30; Gaz. vol. 180; p. 1285.
Vaniman, Ida L., administratrix. (See Vaniman, Melvin.)
Vaniman, Melvin, deceased, Atlantic City, N. J.; I. L. Vaniman, administratrix, assignor to International Aeronautical Construction Company. Equilibrator. No. 1,043,376; Nov. 5; Gaz. vol. 184; p. 118.
Vann, Enos O., Pueblo, Colo. Lock. No. 1,027,940; May 28; Sp. p. 6262; Gaz. vol. 178; p. 1076.
Vannear, Lewis W. (See Trible, Arthur, assignor.)
Vanselow, Otto, Schoolcraft, Mich. Furniture construction. No. 1,017,712; Feb. 20; Sp. p. 3218; Gaz. vol. 175; p. 579.
Vargas, Angel, Iloilo, Philippine Islands. Plow. No. 1,020,232; Mar. 12; Sp. p. 2622; Gaz. vol. 176; p. 444.
Vargo, Wendel. (See Walsh and Vargo.)
Vargyas, Eugene von, assignor to J. P. McLean and W. F. Heidenreich, Pittsburgh, Pa. Collapsible receptacle. No. 1,021,853; Apr. 2; Sp. p. 218; Gaz. vol. 177; p. 36.
Vargyas, Eugene von, Pittsburgh, assignor of one-third to J. S. Douthitt and one-third to H. E. Platt, Coraopolis, Pa. Key. No. 1,022,900; Apr. 9; Sp. p. 2440; Gaz. vol. 177; p. 417.
Vargyas, Eugene Von, and J. W. Deidrick, Pittsburgh, Pa. Collapsible receptacle. No. 1,025,659; May 7; Sp. p. 1234; Gaz. vol. 178; p. 190.
Vargyas, Eugene Von, and J. W. Deidrick, Pittsburgh, Pa. Collapsible drinking-receptacle. No. 1,025,660; May 7; Sp. p. 1235; Gaz. vol. 178; p. 191.
Vargyas, Eugene Von, and J. W. Deidrick, Pittsburgh, Pa. Collapsible drinking-cup. No. 1,025,937; May 7; Sp. p. 1852; Gaz. vol. 178; p. 285.
Varian, John O., Palo Alto, Cal. Harp. No. 1,049,176; Dec. 31; Gaz. vol. 185; p. 1302.
Variety Manufacturing Company. (See Gilmore, Millard, assignor.)
Varley Duplex Magnet Company. (See Scott, Archibald D., assignor.)
Varley Duplex Magnet Company. (See Varley, Richard, assignor.)
Varley, Richard, Englewood, assignor to Varley Duplex Magnet Company, Jersey City, N. J. Apparatus for making coils. No. 1,047,720; Dec. 17; Gaz. vol. 185; p. 741.
Varley, Richard, Englewood, assignor to Varley Duplex Magnet Company, Jersey City, N. J. Apparatus for making coils. No. 1,047,721; Dec. 17; Gaz. vol. 185; p. 741.
Varley, Richard, Englewood, assignor to Varley Duplex Magnet Company, Jersey City, N. J. Coil-former. No. 1,047,899; Dec. 17; Gaz. vol. 185; p. 802.
Varner, Harvey V. (See Teets and Varner.)
Varner, Henry W. (See Davis, George H., assignor.)
Varney, Theodore, Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Controller for electric motors. No. 1,036,754; Aug. 27; Gaz. vol. 181; p. 901.
Varney, Theodore, Pittsburgh, Pa., and C. G. Tarkington, Chicago, Ill., assignors to Westinghouse Electric and Manufacturing Company. Motor-starting controller. No. 1,046,688; Dec. 10; Gaz. vol. 185; p. 350.
Vars, Forest L., Nile, N. Y. Dam. No. 1,047,342; Dec. 17; Gaz. vol. 185; p. 609.
Vary, Elmer A., Middleport, N. Y. Hand fruit-pitter. No. 1,038,993; Sept. 17; Gaz. vol. 182; p. 684.
Vasbinder, Walter C., Pawhuska, Okla. Automatic chalking-cue. No. 1,031,668; July 2; Gaz. vol. 180; p. 284.
Vasey, Joseph N. (See Kiessig, Bernhard R., assignor.)
Vasey, Samuel A., Bromley, England. Production of soluble protein from insoluble protein matter. No. 1,015,857; Jan. 30; Sp. p. 6088; Gaz. vol. 174; p. 1061.
Vassen, Wilhelm, Aachen-Forst, Germany. Rolling-mill. No. 1,025,078; Apr. 30; Sp. p. 7148; Gaz. vol. 177; p. 1254.
Vater, George C. F., assignor to The C. W. Raymond Company, Dayton, Ohio. Sectional kiln. No. 1,041,379; Oct. 15; Gaz. vol. 183; p. 643.
Vauclain, Andrew C., Philadelphia, Pa. Drill-grinder. No. 1,020,860; Mar. 19; Sp. p. 3961; Gaz. vol. 176; p. 690.
Vauclain, Samuel M., Philadelphia, Pa., assignor to Locomotive Superheater Company. Superheater. No. 1,034,540; Aug. 6; Gaz. vol. 181; p. 46.
Vauclain, Samuel M., and G. R. Henderson, assignors to The Baldwin Locomotive Works, Philadelphia, Pa. Downdraft fire-box. No. 1,028,642; June 4; Sp. p. 1249; Gaz. vol. 179; p. 192.
Vauclain, Samuel M., and W. S. Hodges, assignors to The Baldwin Locomotive Works, Philadelphia, Pa. Piston-valve. No. 1,045,644; Nov. 26; Gaz. vol. 184; p. 997.
Vaughan & Bushnell Manufacturing Company. (See Graham, Edward M., assignor.)
Vaughan, David F., Haddonfield, N. J. Anticreeper for railway-rails. No. 1,021,388; Mar. 26; Sp. p. 5048; Gaz. vol. 176; p. 919.
Vaughan, David F., Haddonfield, N. J. Guard-rail clamp. No. 1,045,645; Nov. 26; Gaz. vol. 184; p. 997.
Vaughan, David F. and D. L., Haddonfield, N. J. Anticreeper for railway-rails. No. 1,021,387; Mar. 26; Sp. p. 5043; Gaz. vol. 176; p. 919.
Vaughan, David L. (See Vaughan, David F. and D. L.)
Vaughan, David L., Riverton, N. J. Anticreeper for railway-rails. No. 1,021,389; Mar. 26; Sp. p. 5053; Gaz. vol. 176; p. 920.
Vaughan, Edward. (See Lehberger and Vaughan.)
Vaughan, George R., Jefferson City, Mo. Pneumatic tire. No. 1,015,599; Jan. 23; Sp. p. 5540; Gaz. vol. 174; p. 948.
Vaughan, H. W., *et al.* (See Jameson, Roland L., assignor.)
Vaughan, Harry L., Chicago, Ill. Bottle-opener. No. 1,029,645; June 18; Sp. p. 3407; Gaz. vol. 179; p. 607.
Vaughan, Henry H., Montreal, Quebec, Canada. Dump-car. No. 1,018,140; Feb. 20; Sp. p. 4249; Gaz. vol. 175; p. 730.
Vaughan, Henry M., Newton, Iowa. Erasing device for type-writers. No. 1,019,205; Mar. 5; Sp. p. 438; Gaz. vol. 176; p. 70.
Vaughan, James M., Owensboro, Ky. Tobacco-treating machinery. No. 1,017,713; Feb. 20; Sp. p. 3219; Gaz. vol. 175; p. 579.
Vaughan, John F., Wellesley Hills, Mass. Flow-indicator. No. 1,038,803; Sept. 17; Gaz. vol. 182; p. 619.
Vaughan, Marshal, Welland, Ontario, Canada. Garment-rack. No. 1,039,226; Sept. 24; Gaz. vol. 182; p. 779.
Vaughan, Thomas M., Lawton, assignor to Michigan Metal Products Company, Battle Creek, Mich. Continuous tablet. No. 1,037,373; Sept. 3; Gaz. vol. 182; p. 66.
Vaughn, Bryan M., Montgomery, Ala. Sample-case. No. 1,047,343; Dec. 17; Gaz. vol. 185; p. 609.
Vaughn, Francis W., Jr., West Medford, and H. J. Upton, Somerville, assignors to Vaughn-Upton Company, Boston, Mass. Fountain-pen. No. 1,019,930; Mar. 12; Sp. p. 1982; Gaz. vol. 176; p. 343.
Vaughn, Francis W., Jr., West Medford, and H. J. Upton, Somerville, assignors to Vaughn-Upton Company, Boston, Mass. Fountain-pen. No. 1,035,665; Aug. 13; Gaz. vol. 181; p. 458.
Vaughn, Joseph J., San Mateo, assignor to H. Seller, San Francisco, Cal. Refrigerator. No. 1,015,600; Jan. 23; Sp. p. 5542; Gaz. vol. 174; p. 948.
Vaughn, Thomas E., Chicago, Ill. Insulated cushion steel tie. No. 1,017,826; Feb. 20; Sp. p. 3520; Gaz. vol. 175; p. 619.
Vaughn-Upton Company. (See Vaughn and Upton, assignors.)
Vaught, James P., and C. M. Walker, Kellerman, Ala. Rail-brace. No. 1,015,102; Jan. 16; Sp. p. 4466; Gaz. vol. 174; p. 752.
Vause, George E., and C. S. Clemmens, Pittsburgh, Pa. Brake-locking device. No. 1,021,020; Mar. 26; Sp. p. 4280; Gaz. vol. 176; p. 795.
Vavasour, William E. J., London, England. Aerial machine. No. 1,032,093; July 9; Gaz. vol. 180; p. 471.
Veach, Richard S., Walton, Ky. Mail-bag catcher. No. 1,014,678; Jan. 16; Sp. p. 3553; Gaz. vol. 174; p. 607.
Veazie, Winchester. (See Crooks, James W., assignor.)

Alphabetical list of patentees—Continued.

Vecchio, Nicola, East Boston, Mass. Manufacturing shoes. No. 1,018,455; Feb. 27; Sp. p. 4919; Gaz. vol. 175; p. 869.
Vecsei, John. (See Toth and Vecsei.)
Veeder, Curtis H., assignor to The Veeder Manufacturing Company, Hartford, Conn. Tachometer. No. 1,015,767; Jan. 23; Sp. p. 5894; Gaz. vol. 174; p. 1005.
Veeder, Curtis H., assignor to The Veeder Manufacturing Company, Hartford, Conn. Tachometer. No. 1,016,906; Feb. 6; Sp. p. 1490; Gaz. vol. 175; p. 230.
Veeder, Curtis H., assignor to The Veeder Manufacturing Company, Hartford, Conn. Tachometer. No. 1,025,342; May 7; Sp. p. 520; Gaz. vol. 178; p. 82.
Veeder, Curtis H., assignor to Veeder Manufacturing Company, Hartford, Conn. Counter. No. 1,039,227; Sept. 24; Gaz. vol. 182: p. 779.
Veeder, Curtis H., assignor to The Veeder Manufacturing Company, Hartford, Conn. Counter. No. 1,044,710; Nov. 19; Gaz. vol. 184; p. 642.
Veeder Manufacturing Company, The. (See Veeder, Curtis H., assignor.)
Veeman, Eelke, Sneek, Netherlands. Cheese-making machine. No. 1,046,906; Dec. 10; Gaz. vol. 185; p. 424.
Veilleux, Alfred J., Brockton, Mass. Ventilating attachment for cooking-stoves. No. 1,035,276; Aug. 13; Gaz. vol. 181; p. 324.
Veit, Josef. (See Behrens, George E., assignor.)
Veitch, Thomas. (See Crawford and Veitch.)
Veitl, Albert. (See Hilton and Veitl.)
Veitl, Albert, Deadwood, S. D. Sod-pulverizer and weed-destroyer. No. 1,038,240; Sept. 10; Gaz. vol. 182; p. 389.
Velder, John, Petersburg, Nebr. Spring mechanism for corn-shellers. No. 1,026,134; May 14; Sp. p. 2306; Gaz. vol. 178; p. 389.
Velie Carriage Company. (See Nutt, Lester E., assignor.)
Velox Manufacturing Company. (See Tuck, William W., assignor.)
Velten, Hugo, Milan, Italy. Conveyer. No. 1,046,511; Dec. 10; Gaz. vol. 185; p. 287.
Velten, W. Lothar, Weil-im-Dorf, near Stuttgart, Germany. Cement-pipe-stamping machine. No. 1,024,464; Apr. 23; Sp. p. 5795; Gaz. vol. 177; p. 1006.
Venches, Frank, Holden, W. Va. Rail-joint. No. 1,048,606; Dec. 31; Gaz. vol. 185; p. 1106.
Vendegriff, John W., Atlanta, Ga. Means for opening envelops. No. 1,013,909; Jan. 9; Sp. p. 1830; Gaz. vol. 174; p. 313.
Vender, Vezio, Milan, Italy. Making unfreezable explosives. No. 1,029,519; June 11; Sp. p. 3136; Gaz. vol. 179; p. 526.
Venner, Robert F., Addiscombe, England. Apparatus for preventing sparking at the contacts of electrically-illuminated signs. No. 1,022,907; Apr. 2; Sp. p. 326; Gaz. vol. 177; p. 54.
Venner, Robert F., Croydon, England. Illuminated sign. No. 1,048,008; Dec. 24; Gaz. vol. 185; p. 865.
Vennum, George C., St. Louis, Mo. Vacuum-recorder. No. 1,041,382; Oct. 15; Gaz. vol. 183; p. 643.
Vensel, Charles F., Jr., Chicora, Pa. Trolley. No. 1,016,802; Feb. 6; Sp. p. 1270; Gaz. vol. 175; p. 195.
Ventilating Shade Fixture Co. (See Sanford, William R., assignor.)
Venturi Alarm Company. (See Hamilton, John R., assignor.)
Venturi Alarm Company. (See Thompson and Hamilton, assignors.)
Ver Beck, Alvin E., Detroit, Mich. Pipe-wrench. No. 1,032,035; July 9; Gaz. vol. 180; p. 452.
Verde, Giuliano, Beaumont, Tex. Water-wheel. No. 1,015,858; Jan. 30; Sp. p. 6090; Gaz. vol. 174; p. 1061.
Verdin, Alois N., and W. H. Kappes, Glendale, assignors to Verdin, Kappes & Verdin, Cincinnati, Ohio. Inclinable punching-press. No. 1,013,339; Jan. 2; Sp. p. 551; Gaz. vol. 174; p. 88.
Verdin, Innes T., Glendale, Ohio. Delivery-goods receiver. No. 1,028,918; June 11; Sp. p. 1849; Gaz. vol. 179; p. 321.
Verdin, Kappes & Verdin. (See Verdin and Kappes, assignors.)
Verdon Cutts & Hoult. (See Johnson, Henry, assignor.)
Vergason, Charles. (See Doolittle, Winsor, and Vergason.)
Vereinigte Chemische Werke Actiengesellschaft. (See Connstein, Wilhelm, assignor.)
Vereinigte Chininfabriken Zimmer & Co., G. m. b. H. (See Thron, Heinrich, assignor.)
Vereinigte Chininfabriken Zimmer & Co. G. m. b. H. (See Thron, Sprongerts, and Freund, assignors.)
Vereinigte Glanzstoff-Fabriken A. G. (See Bronnert, Emile, assignor.)
Veres, Paul, Cleveland, Ohio. Expansible bolt. No. 1,035,277; Aug. 13; Gaz. vol. 181; p. 324.
Vergano, Joseph, Santa Rosa, Cal. Device for holding and dispensing beverages. No. 1,047,722; Dec. 17; Gaz. vol. 185; p. 741.
Verges Manufacturing Co. (See Dennis, William, assignor.)
Verity, Joseph, Stretford, England, assignor to C. F. De Angeli, Milan, Italy. Manufacture of dextrin. No. 1,016,803; Feb. 6; Sp. p. 1271; Gaz. vol. 175; p. 195.
Vermeulen, Frederik, assignor to Maatschappij Holland Naamlooze Vennootschap tot Installatie van Bakkerijen, Amsterdam, Netherlands. Baking-oven. No 1,019,862; Mar. 12; Sp. p. 1826; Gaz. vol. 176; p. 320.
Vermont Farm Machine Company. (See Kimball, Perley L., assignor.)
Vermont Farm Machine Company. (See Newell, Fred E., assignor.)
Vermont Hosiery and Machinery Company. (See Cottrell and Shippey, assignors.)
Vernaz, Alexis, Geneva, Switzerland. File. No. 1,042,728; Oct. 29; Gaz. vol. 183; p. 1164.
Vernet, Arthur, Dijon, France. Portable screw-punch and the like. No. 1,017,609; Feb. 13; Sp. p. 3004; Gaz. vol. 175; p. 508.
Vernier, Charles P., Cedar Rapids, Iowa. Door-frame. No. 1,038,994; Sept. 17; Gaz. vol. 182; p. 684.
Vernon, Doctor B. (See Bow, Lafayette T., assignor.)
Vernon, James B., and G. De Camp, St. Louis, Mo., assignors to L. S. Smith & Son Company, Pittsburgh, Pa. Compressor. No. 1,018,221; Feb. 20; Sp. p. 4410; Gaz. vol. 175; p. 758.
Vernsten, Swan J., Chicago, Ill. Continuous press. No. 1,032,167; July 9; Gaz. vol. 180; p. 496.
Versen, Bruno, Dortmund, Germany. Roundabout rolling-mill. No. 1,044,953; Nov. 19; Gaz. vol. 184; p. 725.
Vertical Condenser Company. (See Zeigler, John L., assignor.)
Vertiska, Rudolph. (See Philpot and Vertiska.)
Vertner, Thomas K., Richmond, Va. Top for ash-cans. No. 1,044,306; Nov. 12; Gaz. vol. 184; p. 471.
Verwys, John J., and H. Noppe, Grand Rapids, Mich. Inkwell support. No. 1,034,541; Aug. 6; Gaz. vol. 181; p. 47.
Vesey, Richard H., Denver, Colo. Journal-lubricator. No. 1,020,167; Mar. 12; Sp. p. 2475; Gaz. vol. 176; p. 421.
Vessels, Clarence C., assignor of one-half to J. A. Kurt, Kansas City, Mo. Puzzle. No. 1,021,281; Mar. 26; Sp. p. 4834; Gaz. vol. 176; p. 882.
Vessey, Ralph B., Flint, Mich. Cooking apparatus. No. 1,026,334; May 14; Sp. p. 2748; Gaz. vol. 178; p. 459.
Vessière, Charles, Paris, France. Attachment for lamp-burners. No. 1,028,643; June 4; Sp. p. 1250; Gaz. vol. 179; p. 192.
Vessot, Charles H., and A. G. Mather, Ottawa, Ontario, Canada. Flax-pulling machine. No. 1,013,975; Jan. 9; Sp. p. 1982; Gaz. vol. 174; p. 336.
Vest, Isham J., New Iberia, La. Ice-can lifter. No. 1,036,755; Aug. 27; Gaz. vol. 181; p. 901.
Vetterlein, Henry M., assignor of one-third to A. C. French and one-third to R. C. Wasserscheid, New York, N. Y. Electric animal-exterminator. No. 1,049,177; Dec. 31; Gaz. vol. 185; p. 1303.
Vezie, Thomas, and W. L. Evans, McDonald, Pa. Anvil. No. 1,037,088; Aug. 27; Gaz. vol. 181; p. 1012.
Vial, Frederick K., Chicago, Ill., assignor to Griffin Wheel Company. Car-wheel mold and making car-wheels. No. 1,015,362; Jan. 23; Sp. p. 5017; Gaz. vol. 174; p. 867.
Vial, John. *et al.* (See Vial, William, assignor.)
Vial, William, Swissvale, assignor of one-third to W. D. Berry, New Brighton, and one-third to J. Vial, Braddock, Pa. Globe-valve. No. 1,016,306; Feb. 6; Sp. p. 155; Gaz. vol. 175; p. 24.
Viall, William G., assignor to The Ives Manufacturing Corporation, Bridgeport, Conn. Commutator. No. 1,018,141; Feb. 20; Sp. p. 4252; Gaz. vol. 175; p. 730.
Vibbert, Robert J., Ambrose, Ga. Row-gage attachment for plows. No. 1,021,021; Mar. 26; Sp. p. 4281; Gaz. vol. 176; p. 795.
Viberg, Ernest R., Montreal, Quebec, Canada. Metal window-sash. No. 1,027,675; May 28; Sp. p. 5661; Gaz. vol. 178; p. 986.
Vick, Rollo M., Canton, Ohio. Telephone-holder. No. 1,046,689; Dec. 10; Gaz. vol. 185; p. 350.
Vickers Limited. (See Dawson and Buckham, assignors.)
Vickers Limited. (See Dawson and Horne, assignors.)
Vickers Limited. (See Elia, Giovanni E., assignor.)
Vickers Sons & Maxim. (See Buckham, George T., assignor.)
Vickers Sons & Maxim. (See Dawson and Buckham, assignors.)
Vickery, Charles H., assignor of one-fourth to J. M. Slater and one-fourth to L. M. Slater, Attica, N. Y. Street-indicator. No. 1,030,355; June 25; Sp. p. 5008; Gaz. vol. 179; p. 893.
Vickery, Herbert D. (See Kirkwood, James C. P., assignor.)
Vickery, Nelson. (See Stow and Vickery.)
Victor, Alexander F., Toledo, Ohio. Photographic film for picture-machines. No. 1,019,931; Mar. 12; Sp. p. 1984; Gaz. vol. 176; p. 343.
Victor, Alexander F., Toledo, Ohio. Picture-displaying machine. No. 1,019,932; Mar. 12; Sp. p. 1985; Gaz. vol. 176; p. 343.
Victor, Alexander F., Elmira, N. Y. Optical toy. No. 1,027,576; May 28; Sp. p. 5466; Gaz. vol. 178; p. 956.
Victor, Alexandre, assignor to La Société Ribayron & Victor, Lyon, France. Woodworking-machine. No. 1,016,379; Feb. 6; Sp. p. 309; Gaz. vol. 175; p. 49.
Victor Brown Company, The. (See Clark, Victor E., assignor.)

Alphabetical list of patentees—Continued.

Victor Jar Company, The. (See Eichhorn, Jacob C., assignor.)
Victor Sporting Goods Company. (See Rogers, Burt T., assignor.)
Victor Talking Machine Company. (See Birnbaum, Theodore, assignor.)
Victor Talking Machine Company. (See Browning, John B., assignor.)
Victor Talking Machine Company. (See Brunt, Henry C. C., assignor.)
Victor Talking Machine Company. (See Burton, Isaac F., assignor.)
Victor Talking Machine Company. (See Dennison, Wilburn N., assignor.)
Victor Talking Machine Company. (See Douglass, Leon F., assignor.)
Victor Talking Machine Company. (See English, John C., assignor.)
Victor Talking Machine Company. (See Jetter, Julius, assignor.)
Victor Talking Machine Company. (See Johnson, Eldridge R., assignor.)
Victor Talking Machine Company. (See Johnson and English, assignors.)
Victor Talking Machine Company. (See Lumiere, Louis, assignor.)
Victor Talking Machine Company. (See Owen, James W., assignor.)
Victor Talking Machine Company. (See Rinehart, Bentley L., assignor.)
Victor Talking Machine Company. (See Vogt, Clarence, assignor.)
Vidar, John L., Los Angeles, Cal. Automatic expansion-valve. No. 1,044,106; Nov. 12; Gaz. vol. 184; p. 403.
Vidinghoff. Charles A., Buffalo, N. Y. Scale-balancing device. No. 1,018,456; Feb. 27; Sp. p. 4920; Gaz. vol. 175; p. 869.
Viel, Paul I., Paris, France. Vehicle-wheel. No. 1,034,847; Aug. 6; Gaz. vol. 181; p. 151.
Viele, James A., Warren, Pa. Pneumatic friction-clutch. No. 1,045,918; Dec. 3; Gaz. vol. 185; p. 42.
Viele, James A., Warren, Pa. Reversing transmission-gearing. No. 1,046,512; Dec. 10; Gaz. vol. 185; p. 288.
Vielhaber, Max W., Enid, Okla. Oil-burner. No. 1,031,493; July 2; Gaz. vol. 180; p. 225.
Viera, Antonio, Ray, Ariz. Miner's candlestick. No. 1,020,332; Mar. 12; Sp. p. 2798; Gaz. vol. 176; p. 474.
Vierheller, Paul E., Victoria, Tex. Ladder. No. 1,024,380; Apr. 23; Sp. p. 5576; Gaz. vol. 177; p. 978.
Viering, Frederick W., Davis, W. Va. Apparatus for transporting logs. No. 1,015,103; Jan. 16; Sp. p. 4467; Gaz. vol. 174; p. 752.
Vierling, Frank R., Omaha, Nebr. Sash-weight. No. 1,048,607; Dec. 31; Gaz. vol. 185; p. 1106.
Vieser, Frederick A., Camden, N. J. Roll. No. 1,018,457; Feb. 27; Sp. p. 4922; Gaz. vol. 175; p. 869.
Vietinghoff, Karl von. (See Bystrom, Josef, assignor.)
Vietor, Adolf, Schmalkalden, Germany. Gripping device. No. 1,027,161; May 21; Sp. p. 4618; Gaz. vol. 178; p. 775.
Viëtor, Alwin, Wiesbaden, Germany. Spring-wheel. No. 1,046,907; Dec. 10; Gaz. vol. 185; p. 425.
Viezzi, Luigi, Jersey City, N. J. Vise. No. 1,027,941; May 28; Sp. p. 6264; Gaz. vol. 178; p. 1076.
Viezzi, Luigi, Jersey City, N. J. Hat-holder. No. 1,027,942; May 28; Sp. p. 6267; Gaz. vol. 178; p. 1076.
Viger, Henry, Stoneham, assignor of one-half to H. Park, Warren, Pa. Sucker-rod elevator. No. 1,018,732; Feb. 27; Sp. p. 5564; Gaz. vol. 175; p. 963.
Vigreux, Charles, Balesmes, France. Rotary purifier for paper-pulp and the like. No. 1,045,476; Nov. 26; Gaz. vol. 184; p. 937.
Vila, Antony. (See Pipereaut and Vila.)
Vilas, Percival M. (See McKee and Vilas.)
Vilkie, Joseph E., Titusville, Pa. Antifriction-eccentric. No. 1,018,142; Feb. 20; Sp. p. 4253; Gaz. vol. 175; p. 731.
Villard, Walter J., Champaign, Ill. Bench-dog. No. 1,046,123; Dec. 3; Gaz. vol. 185; p. 111.
Villegas, Manuel, Mexico, Mexico. Article of food and making the same. No. 1,018,595; Feb. 27; Sp. p. 5287; Gaz. vol. 175; p. 918.
Villethiou, André J. M. de, Paris, France. Screw-propeller with open center. No. 1,025,658; May 7; Sp. p. 1233; Gaz. vol. 178; p. 190.
Villiers, Ralph V., East Freetown, Mass. Waterproof battery and making same. No. 1,027,088; May 21; Sp. p. 4466; Gaz. vol. 178; p. 753.
Villiers-Stuart, Horace, Louisville, Ky. Spring-wheel. No. 1,025,343; May 7; Sp. p. 522; Gaz. vol. 178; p. 82.
Vilven, Thomas E., Euclid, Minn. Horse-releaser. No. 1,046,040; Dec. 3; Gaz. vol. 185; p. 83.
Vincent, Alfred, Redfern, and C. Muir, St. Peters, Sydney, New South Wales, assignors to Muir-Vincent Smoke Consumers Limited, Sydney, Australia. Furnace for burning solid fuel. No. 1,044,711; Nov. 19; Gaz. vol. 184; p. 642.
Vincent, Alfred, Redfern, and C. Muir, St. Peters, Sydney, New South Wales, assignors to Muir-Vincent Smoke Consumers Limited, Sydney, Australia. Boiler-furnace door. No. 1,044,830; Nov. 19; Gaz. vol. 184; p. 683.
Vincent, Edgar W., Watervliet, and E. Croasdale, assignors to Tolhurst Machine Works, Troy, N. Y. Fabric-shrinking machine. No. 1,043,742; Nov. 5; Gaz. vol. 184; p. 244.
Vincent, Edwin F., Lima, Mont. Door-securer. No. 1,038,690; Sept. 17; Gaz. vol. 182; p. 580.
Vincent, Jesse G., assignor to Burroughs Adding Machine Company, Detroit, Mich. Adding and listing machine. No. 1,013,910; Jan. 9; Sp. p. 1831; Gaz. vol. 174; p. 313.
Vincent, Jesse G., assignor to Burroughs Adding Machine Company, Detroit, Mich. Adding-machine. No. 1,023,895; Apr. 23; Sp. p. 4544; Gaz. vol. 177; p. 813.
Vincent, Jesse G., assignor to Burroughs Adding Machine Company, Detroit, Mich. Adding and subtracting machine. No. 1,027,511; May 28; Sp. p. 5320; Gaz. vol. 178; p. 932.
Vincent, Jesse G., assignor to Burroughs Adding Machine Company, Detroit, Mich. Adding and subtracting machine. No. 1,028,161; June 4; Sp. p. 183; Gaz. vol. 179; p. 28.
Vincent, Jesse G., assignor to Burroughs Adding Machine Company, Detroit, Mich. Adding-machine. No. 1,043,882; Nov. 12; Gaz. vol. 184; p. 325.
Vincent, Jesse G., and R. E. Benner, assignors to Burroughs Adding Machine Company, Detroit, Mich. Adding and listing machine. No. 1,028,162; June 4; Sp. p. 201; Gaz. vol. 179; p. 28.
Vincent, Jesse G., and A. A. Horton, assignors to Burroughs Adding Machine Company, Detroit, Mich. Adding-machine. No. 1,046,513; Dec. 10; Gaz. vol. 185; p. 288.
Vincent, Sidney C., Baltimore, Md., assignor to The Electro-Clock Company. Electric clock. No. 1,022,987; Apr. 9; Sp. p. 2632; Gaz. vol. 177; p. 449.
Vincke, Heinrich G., and J. Miquel, San Feliu de Guixols, Spain. Manufacture of cork film. No. 1,020,669; Mar. 19; Sp. p. 3544; Gaz. vol. 176; p. 624.
Vincon, Gustavo, Turin, Italy. Ball-bearing. No. 1,020,729; Mar. 19; Sp. p. 3672; Gaz. vol. 176; p. 646.
Vinnemeier, Gerhard, Claremore, Okla. Printing-frame. No. 1,044,107; Nov. 12; Gaz. vol. 184; p. 403.
Vinquist, Charles R., Denver, Colo., assignor to H. Stern, Cleveland, Ohio. Cushion-beating machine. No. 1,034,663; Aug. 6; Gaz. vol. 181; p. 86.
Vinson, Sherman L., Orange, assignor of one-half to G. D. Parker, Riverside, Cal. Wrapping-paper holder. No. 1,033,500; July 23; Gaz. vol. 180; p. 1029.
Vinson, William A., Healdsburg, Cal. Tire-inflater. No. 1,045,760; Nov. 26; Gaz. vol. 184; p. 1037.
Vint, Robert, Stockton, Cal. Rein-holder. No. 1,045,224; Nov. 26; Gaz. vol. 184; p. 848.
Vinton, John H., Jamaica Plain, assignor to Trimont Manufacturing Company, Boston, Mass. Shaft-retaining means. No. 1,020,730; Mar. 19; Sp. p. 3673; Gaz. vol. 176; p. 646.
Virden Manufacturing Company, The. (See Aspinwall, Robert S., assignor.)
Virginia Laboratory Company. (See Seward, Kügelgen, and Bidder, assignors.)
Virtue, Dennis E., Owatonna, Minn. Combined churn and butter-worker. No. 1,030,356; June 25; Sp. p. 5011; Gaz. vol. 179; p. 893.
Virtue, Dennis E., Owatonna, Minn. Cream-ripener. No. 1,046,908; Dec. 10; Gaz. vol. 185; p. 425.
Virtue, Frank C., Toronto, Ontario, Canada. Hand-operated air-pump. No. 1,025,221; May 7; Sp. p. 245; Gaz. vol. 178; p. 41.
Viry, Henri, Ramberville, France. Pocket type-writer. No. 1,037,564; Sept. 3; Gaz. vol. 182; p. 131.
Viry, Pierre, Suresnes, France. Electrical device for controlling from a distance any number of movements. No. 1,035,501; Aug. 13; Gaz. vol. 181; p. 403.
Vischer, Alfred. (See Moewes and Vischer.)
Vise, Elmer L., and C. Denham, West Terre Haute, Ind. Coal-distributer. No. 1,038,241; Sept. 10; Gaz. vol. 182; p. 389.
Visger, Joseph S., and C. Claus, Brooklyn, N. Y. Bed-lifter. No. 1,017,484; Feb. 13; Sp. p. 2777; Gaz. vol. 175; p. 468.
Visness, Carl B., Mekinock, N. D. Pipe-wrench. No. 1,042,175; Oct. 22; Gaz. vol. 183; p. 946.
Vissat, Anthony L., Bridgeville, Pa. Railway-frog. No. 1,032,790; July 16; Gaz. vol. 180; p. 754.
Visseaux, Jacques, Lyon, France. Incandescent gas-burner. No. 1,045,646; Nov. 26; Gaz. vol. 184; p. 998.
Vissering, Harry, Chicago, Ill. Track-sanding apparatus. No. 1,023,100; Apr. 9; Sp. p. 2860; Gaz. vol. 177; p. 487.
Vissering, Harry, assignor to Harry Vissering and Company, Chicago, Ill. Sand-pipe for sander devices. No. 1,018,143; Feb. 20; Sp. p. 4255; Gaz. vol. 175; p. 731.
Vissering, Harry, assignor to Harry Vissering and Company, Chicago, Ill. Alarm-valve. No. 1,022,613; Apr. 9; Sp. p. 1820; Gaz. vol. 177; p. 319.
Vissering, Harry, assignor to Harry Vissering and Company, Chicago, Ill. Bell-ringing mechanism. No. 1,036,939; Aug. 27; Gaz. vol. 181; p. 961.

Alphabetical list of patentees—Continued.

Vitoszki, Mike, assignor of one-fourth to J. Tomasowski and one-fourth to M. Makranvey, Johnstown, Pa. Trunk. No. 1,017,351; Feb. 13; Sp. p. 2480; Gaz. vol. 175; p. 421.
Vlchek, Frank J., Cleveland, Ohio. Scraper. No. 1,015,461; Jan. 23; Sp. p. 5251; Gaz. vol. 174; p. 900.
Vles, Abraham. (See Zubli and Vles.)
Vocalstyle Music Company, The. (See Beinkamp and Harding, assignors.)
Vock, Arthur A., assignor to The Standing Stamping Company, Marysville, Ohio. Gas-regulating valve. No. 1,042,850; Oct. 29; Gaz. vol. 183; p. 1206.
Voegeli, George, Chicago, Ill. Ash-receiver and holder. No. 1,042,851; Oct. 29; Gaz. vol. 183; p. 1206.
Voelker, Charles T., West Reading, Pa. Bonnet. No. 1,046,690; Dec. 10; Gaz. vol. 185; p. 351.
Voelker, John P., New York, N. Y. Lifting-frame for storage vessels. No. 1,024,956; Apr. 30; Sp. p. 6916; Gaz. vol. 177; p. 1215.
Voell, Louis A., Fond du Lac, Wis. Igniting device. No. 1,029,158; June 11; Sp. p. 2361; Gaz. vol. 179; p. 402.
Voellinger, Peter, Belleville, Ill. Shock-mover. No. 1,021,495; Mar. 26; Sp. p. 5314; Gaz. vol. 176; p. 957.
Vogel, Charles H., and G. R. Taitt, Vancouver, British Columbia, Canada. Aerial tramway. No. 1,041,916; Oct. 22; Gaz. vol. 183; p. 861.
Vogel, Frederick M., Lynn, Mass., assignor to General Electric Company. Flat-iron stand. No. 1,025,493; May 7; Sp. p. 869; Gaz. vol. 178; p. 135.
Vogel, Frederick M., Pittsfield, Mass., assignor to General Electric Company. Electrically-heated hosiery-form. No. 1,046,514; Dec. 10; Gaz. vol. 185; p. 289.
Vogel, Joseph O., assignor of one-half to O. A. Stehle, Pittsburgh, Pa. Car-fender. No. 1,021,022; Mar. 26; Sp. p. 4283; Gaz. vol. 176; p. 795.
Vogel, Max, Frankfort-on-the-Main, Germany. Stapling-pliers. No. 1,043,883; Nov. 12; Gaz. vol. 184; p. 325.
Vogel, Otto, Wilmersdorf, Germany. Electric furnace. No. 1,040,818; Oct. 8; Gaz. vol. 183; p. 420.
Vogel, Paul, Cologne-Deutz, Germany. Turret. No. 1,038,242; Sept. 10; Gaz. vol. 182; p. 389.
Vogelmann, Joseph A., and C. F. Hovey, Brooklyn, N. Y., assignors of one-tenth to Vogelmann and nine-tenths to Hovey. Fountain-pen. No. 1,023,447; Apr. 16; Sp. p. 3617; Gaz. vol. 177; p. 641.
Vogelzangs, John, and F. E. Morgan, Green Bay, Wis. Vacuum-cleaner. No. 1,048,009; Dec. 24; Gaz. vol. 185; p. 865.
Voges, August, assignor to Antiseptol Liquid Soap Company, Chicago, Ill. Liquid-vender. No. 1,046,408; Dec. 3; Gaz. vol. 185; p. 214.
Voggenreiter, Louis, New York, N. Y. Rule. No. 1,028,507; June 4; Sp. p. 977; Gaz. vol. 179; p. 147.
Vogt, Alexander, Wilmersdorf, Germany. Signaling device for automobiles and the like. No. 1,030,214; June 18; Sp. p. 4668; Gaz. vol. 179; p. 802.
Vogt, Axel S. (See Buckwalter, Tracy V., assignor.)
Vogt, Clarence, Berlin, Germany, assignor, by mesne assignments, to Victor Talking Machine Company, Camden, N. J. Needle-holder for the sound-boxes of talking-machines. No. 1,015,363; Jan. 23; Sp. p. 5019; Gaz. vol. 174; p. 867.
Vogt, Clarence, Berlin, Germany, assignor to The Gramophone & Typewriter Ltd., London, England. Talking-machine. No. 1,034,664; Aug. 6; Gaz. vol. 181; p. 86.
Vogt, Ernest O. L., Philadelphia, Pa. Adjustable delay device for ordnance-fuses. No. 1,032,253; July 9; Gaz. vol. 180; p. 526.
Vogt, Frederick A., Philadelphia, Pa. Canning scrapple. No. 1,035,502; Aug. 13; Gaz. vol. 181; p. 403.
Vogt, Jesse S., Long Green, assignor of one-third to D. F. Mallory, Roland Park, and one-third to I. O. Wright, Baltimore, Md. Automatic balancing mechanism for aeroplanes. No. 1,039,228; Sept. 24; Gaz. vol. 182; p. 780.
Vogt, John E., Chicago, Ill. Grinding-machine. No. 1,048,769; Dec. 31; Gaz. vol. 185; p. 1163.
Vogt, Theodor, Heiligenberg, Germany. Preparation of stone slabs. No. 1,018,458; Feb. 27; Sp. p. 4923; Gaz. vol. 175; p. 870.
Vogtlandische Maschinen-Fabrik (vormals J. C. & H. Dietrich) A. G. (See Egli, Arnold, assignor.)
Vohr Ozone Electric Company. (See Small and Linder, assignors.)
Vohs, Frank G., St. Louis, Mo. Airship. No. 1,013,523; Jan. 2; Sp. p. 945; Gaz. vol. 174; p. 151.
Voight, August. (See Voight, Henry G. and A.)
Voight, Henry G., New Britain, Conn. Night-latch. No. 1,024,479; Apr. 23; Sp. p. 5829; Gaz. vol. 177; p. 1013.
Voight, Henry G., New Britain, Conn. Door-controlling means. No. 1,028,833; June 4; Sp. p. 1643; Gaz. vol. 179; p. 256.
Voight, Henry G., New Britain, Conn. Combined floor check and hinge. No. 1,040,965; Oct. 8; Gaz. vol. 183; p. 468.
Voight, Henry G., New Britain, Conn. Lock. No. 1,040,966; Oct. 8; Gaz. vol. 183; p. 468.
Voight, Henry G., New Britain, Conn. Lock for sliding doors. No. 1,040,967; Oct. 8; Gaz. vol. 183; p. 469.
Voight, Henry G., New Britain, Conn. Spring floor-hinge. No. 1,040,968; Oct. 8; Gaz. vol. 183; p. 469.
Voight, Henry G., New Britain, Conn. Door-controlling means. No. 1,040,969; Oct. 8; Gaz. vol. 183; p. 470.
Voight, Henry G., New Britain, Conn. Door controlling and locking means. No. 1,040,970; Oct. 8; Gaz. vol. 183; p. 471.
Voight, Henry G., New Britain, Conn. Lock for sliding doors. No. 1,041,704; Oct. 15; Gaz. vol. 183; p. 749.
Voight, Henry G., New Britain, Conn. Door-controlling means. No. 1,041,705; Oct. 15; Gaz. vol. 183; p. 750.
Voight, Henry G., New Britain, Conn. Door-controlling means. No. 1,041,706; Oct. 15; Gaz. vol. 183; p. 750.
Voight, Henry G., New Britain, Conn. Window-lock. No. 1,042,296; Oct. 22; Gaz. vol. 183; p. 985.
Voight, Henry G., New Britain, Conn. Combined self-adjusting night-latch and lock. No. 1,042,297; Oct. 22; Gaz. vol. 183; p. 985.
Voight, Henry G., New Britain, Conn. Fire-door lock. No. 1,047,900; Dec. 17; Gaz. vol. 185; p. 802.
Voight, Henry G., assignor to The American Hardware Corporation, New Britain, Conn. Lock. No. 1,013,524; Jan. 2; Sp. p. 946; Gaz. vol. 174; p. 152.
Voight, Henry G., assignor to The American Hardware Corporation, New Britain, Conn. Door-closer. No. 1,017,714; Feb. 20; Sp. p. 3223; Gaz. vol. 175; p. 579.
Voight, Henry G., assignor to The American Hardware Corporation, New Britain, Conn. Panic-lock. No. 1,025,102; Apr. 30; Sp. p. 7208; Gaz. vol. 177; p. 1262.
Voight, Henry G., assignor to The American Hardware Corporation, New Britain, Conn. Emergency-door lock. No. 1,026,888; May 21; Sp. p. 3966; Gaz. vol. 178; p. 683.
Voight, Henry G., assignor to The American Hardware Corporation, New Britain, Conn. Floor-hinge. No. 1,039,618; Sept. 24; Gaz. vol. 182; p. 917.
Voight, Henry G., assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Lock. No. 1,018,998; Feb. 27; Sp. p. 6139; Gaz. vol. 175; p. 1055.
Voight, Henry G., assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Door-check cushion-stop. No. 1,024,465; Apr. 23; Sp. p. 5798; Gaz. vol. 177; p. 1007.
Voight, Henry G., assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Lock. No. 1,024,466; Apr. 23; Sp. p. 5799; Gaz. vol. 177; p. 1007.
Voight, Henry G. and A., New Britain, Conn. Driving-belt. No. 1,018,792; Feb. 27; Sp. p. 5694; Gaz. vol. 175; p. 984.
Voight, Henry G., and N. B. Hurd, assignors to Russell & Erwin Manufacturing Company, New Britain, Conn. Communicating-door lock. No. 1,018,534; Feb. 27; Sp. p. 5149; Gaz. vol. 175; p. 896.
Voight, Henry G., and N. B. Hurd, assignors to Russell & Erwin Manufacturing Company, New Britain, Conn. Lock. No. 1,024,467; Apr. 23; Sp. p. 5800; Gaz. vol. 177; p. 1007.
Voight, Henry G., and N. B. Hurd, assignors to Russell & Erwin Manufacturing Company, New Britain, Conn. Wardrobe-door lock. No. 1,024,468; Apr. 23; Sp. p. 5803; Gaz. vol. 177; p. 1008.
Voight, Henry G., and N. B. Hurd, assignors to The American Hardware Corporation, New Britain, Conn. Door-lock trimming. No. 1,024,480; Apr. 23; Sp. p. 5830; Gaz. vol. 177; p. 1013.
Voight, Henry G., and N. B. Hurd, assignors to The American Hardware Corporation, New Britain, Conn. Passage-door lock. No. 1,028,407; June 4; Sp. p. 757; Gaz. vol. 179; p. 114.
Voigt, Albert, New York, N. Y. Mounting for sliding doors. No. 1,048,240; Dec. 24; Gaz. vol. 185; p. 942.
Voigt, George W., assignor to J. T. Giblin, Chicago, Ill. Mechanism for operating car doors and steps. No. 1,043,483; Nov. 5; Gaz. vol. 184; p. 157.
Voigt, Traugott, Milwaukee, Wis. Horse-collar clamp. No. 1,037,374; Sept. 3; Gaz. vol. 182; p. 66.
Voigtman & Co. (See Fromhold, Alexander, assignor.)
Voigtmann, Frank, *et al.* (See Iman, Orla H., assignor.)
Voigtmann, Frank, Chicago, Ill. Fusible link. No. 1,017,715; Feb. 20; Sp. p. 3224; Gaz. vol. 175; p. 580.
Voland, George G. (See Voland, Gottfried and G. G.)
Voland, Gottfried and G. G., New Rochelle, N. Y. Balance. No. 1,041,383; Oct. 15; Gaz. vol. 183; p. 644.
Voland, William, Garnet, Wis. Road-scraper. No. 1,037,375; Sept. 3; Gaz. vol. 182; p. 66.
Volck, William H., Watsonville, Cal. Making lime-sulfur solution. No. 1,043,276; Nov. 5; Gaz. vol. 184; p. 81.
Volckening, Charles K., New York, N. Y. Bottle-washing machine. No. 1,034,938; Aug. 6; Gaz. vol. 181; p. 180.
Vold, Lars H., Westville, assignor to William Sellers & Company, Incorporated, Philadelphia, Pa. Multiple punch. No. 1,016,459; Feb. 6; Sp. p. 509; Gaz. vol. 175; p. 78.
Vold, Lars H., Westville, N. J., assignor to William Sellers & Company, Incorporated, Philadelphia, Pa. Multiple punch. (Reissue.) No. 13,472; Oct. 1; Gaz. vol. 183; p. 201.
Volk, Joseph A., Jr., South Norwalk, Conn. Centrifugal switch. No. 1,031,893; July 9; Gaz. vol. 180; p. 405.
Volk, Joseph A., Jr., South Norwalk, Conn. Automatic speed-regulating clutch. No. 1,044,307; Nov. 12; Gaz. vol. 184; p. 472.

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Volkening, Walter, Bonn-on-the-Rhine, Germany, assignor to B. G. K. Goebel. Transmission-gear. No. 1,043,176; Nov. 5; Gaz. vol. 184; p. 47.
Volkmann, Paul, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Disazo dye and making the same. No. 1,020,670; Mar. 19; Sp. p. 3545; Gaz. vol. 176; p. 624.
Volkmar Auto Starter Company. (See Volkmar, Bernhard, assignor.)
Volkmar, Bernhard, assignor, by mesne assignments, to C. Hubert, New York, N. Y. Protective casing. No. 1,013,850; Jan. 2; Sp. p. 1679; Gaz. vol. 174; p. 265.
Volkmar, Bernhard, New York, N. Y., assignor to Volkmar Auto Starter Company. Starter for internal-combustion engines. No. 1,037,376; Sept. 3; Gaz. vol. 182; p. 67.
Volkmer, Edward, New York, N. Y. Truss for ruptures. No. 1,016,531; Feb. 6; Sp. p. 693; Gaz. vol. 175; p. 103.
Vollberg, Hermann. (See Klages and Vollberg.)
Vollbrecht, Wilhelm. (See Gradenwitz, Vollbrecht, and Levzow.)
Völler, Karl, Dusseldorf, Germany. Recoil mechanism for guns. No. 1,034,171; July 30; Gaz. vol. 180; p. 1285.
Völler, Karl, Dusseldorf, Germany. Automatically-operating key for setting the timing-rings of fuses for shells or the like. No. 1,037,811; Sept. 3; Gaz. vol. 182; p. 211.
Völler, Karl, Dusseldorf, Germany. Wheel. No. 1,037,812; Sept. 3; Gaz. vol. 182; p. 211.
Völler, Karl, Dusseldorf, Germany. Artillery-projectile. No. 1,042,176; Oct. 22; Gaz. vol. 183; p. 946.
Völler, Karl, Dusseldorf, assignor to Rheinische Metallwaaren- und Maschinenfabrik, Dusseldorf - Derendorf, Germany. Gun-carriage. No. 1,013,704; Jan. 2; Sp. p. 1361; Gaz. vol. 174; p. 212.
Völler, Karl, Dusseldorf, assignor to Rheinische Metallwaaren- und Maschinenfabrik, Duseldorf - Derendorf, Germany. Gun with recoiling barrel. No. 1,020,233; Mar. 12; Sp. p. 2623; Gaz. vol. 176; p. 444.
Völler, Karl, Dusseldorf, assignor to Rheinische Metallwaaren- und Maschinenfabrik, Dusseldorf-Derendorf, Germany. Starting device for flying - machines. No. 1,024,429; Apr. 23; Sp. p. 5708; Gaz. vol. 177; p. 994.
Völler, Karl, Dusseldorf, assignor to Rheinische Metallwaaren- und Maschinenfabrik, Dusseldorf-Derendorf, Germany. Liquid recoil-brake for guns. No. 1,028,081; May 28; Sp. p. 6570; Gaz. vol. 178; p. 1120.
Völler, Karl, Dusseldorf, assignor to Rheinische Metallwaaren- und Maschinenfabrik, Dusseldorf-Derendorf, Germany. Gun-carriage mounted on a pivot. No. 1,032,254; July 9; Gaz. vol. 180; p. 526.
Völler, Karl, Dusseldorf, assignor to Rheinische Metallwaaren- und Maschinenfabrik, Dusseldorf - Derendorf, Germany. Device for preventing the barrels of differential-recoil guns from tilting in the firing position. No. 1,032,869; July 16; Gaz. vol. 180; p. 780.
Völler, Karl, Dusseldorf, assignor to Rheinische Metallwaaren- und Maschinenfabrik, Dusseldorf - Derendorf, Germany. Artillery-projectile. No. 1,039,850; Oct. 1; Gaz. vol. 183; p. 61.
Völler, Karl, Dusseldorf, assignor to Rheinische Metallwaaren- und Maschinenfabrik. Dusseldorf - Derendorf, Germany. Gun-mounting. No. 1,041,384; Oct. 15; Gaz. vol. 183; p. 644.
Völler, Karl, Dusseldorf, assignor to Rheinische Metallwaren- und Maschinenfabrik, Dusseldorf-Derendorf, Germany. Ammunition-wagon. No. 1,045,761; Nov. 26; Gaz. vol. 184; p. 1037.
Völler, Karl, Dusseldorf, assignor to Rheinische Metallwaaren- und Maschinenfabrik, Dusseldorf - Derendorf, Germany. Percussion - fuse for projectiles. No. 1,046,349; Dec. 3; Gaz. vol. 185; p. 192.
Völler, Karl, Dusseldorf, assignor to Rheinische Metallwaaren- und Maschinenfabrik, Dusseldorf - Derendorf, Germany. Combination-fuse for artillery-projectiles. No. 1,047,862; Dec. 17; Gaz. vol. 185; p. 790.
Vollers, Albert, Guide Rock, Nebr. Portable loading device. No. 1,016,188; Jan. 30; Sp. p. 6764; Gaz. vol. 174; p. 1177.
Vollmann, Carl W., Montreal, Quebec, Canada. Condenser and cooler. No. 1,033,132; July 23: Gaz. vol. 180; p. 907.
Vollmer, Charles, assignor of one-third to G. N. Hoffmann, St. Louis, Mo. Utensil cleaning and greasing machine. No. 1,029,733; June 18; Sp. p. 3624; Gaz. vol. 179; p. 639.
Vollmer, Jacob S., Newark, Ohio. Automatic cut-off valve for gas-stoves. No. 1,032,972; July 16; Gaz. vol. 180; p. 813.
Vollmer, Joseph, Berlin, Germany. Reversing-gear for multiple-cylinder combustion-engines. No. 1,042,989; Oct. 29; Gaz. vol. 183; p. 1253.
Vollmer, William, and A. K. Andrews, Burnham, Pa. Sawtooth. No. 1,027,943; May 28; Sp. p. 6268; Gaz. vol. 178; p. 1077.
Volnagel, George, Bremerton, Wash. Making molds for shoe-lasts. No. 1,027,016; May 21; Sp. p. 4262; Gaz vol. 178; p. 727.
Volz, Simon, Milwaukee, Wis. Hinge. No. 1,014,790; Jan. 16; Sp. p. 3788; Gaz. vol. 174; p. 644.
Volz, Simon, Milwaukee, Wis. Rack - holder. No. 1,015,278; Jan. 16; Sp. p. 4816; Gaz. vol. 174; p. 810.
Volz, Simon, assignor to The Twentieth Century Machinery Company, Milwaukee, Wis. Bottle conveyer and drainer. No. 1,044,606; Nov. 19; Gaz. vol. 184; p. 605.
Von Daam, Gerrit, Scranton, Pa. Pincushion. No. 1,020,333; Mar. 12; Sp. p. 2800; Gaz. vol. 176; p. 475.
Von Daam, Gerrit, Scranton, Pa. Air-heating device for stoves. No. 1,027,944; May 28; Sp. p. 6269; Gaz. vol. 178; p. 1077.
Von den Steinen, Otto, Newark, N. J. Shears. No. 1,048,753; Dec. 31; Gaz. vol. 185; p. 1158.
Von der Heyden, Max, Berlin, Germany. Paper capsules for internally and externally covering the necks of bottles or the like. No. 1,030,948; July 2; Gaz. vol. 180; p. 34.
Vonaesch, Arnold, Owen Sound, Ontario, Canada. Gate-case with balanced gates for water - turbines. No. 1,017,716; Feb. 20; Sp. p. 3226; Gaz. vol. 175; p. 580.
Vondrasek, Frank. (See Christensen and Vondrasek.)
Vondracek, Frank J., Cedar Rapids, Iowa. Floor-scraper. No. 1,016,720; Feb. 6; Sp. p. 1099; Gaz. vol. 175; p. 169.
Vondracek, Frank J., Cedar Rapids, Iowa. Floor-scraper. No. 1,027,676; May 28; Sp. p. 5662; Gaz. vol. 178; p. 986.
Vondracek, Wesley J., and C. C. Slapnicka, Cedar Rapids, Iowa. Oil-burner. No. 1,036,037; Aug. 20; Gaz. vol. 181; p. 620.
Voorhees, John R., Cedar Falls, and V. V. Speer, Waterloo township, Blackhawk county, Iowa. Shifting and locking device for clash-gearing. No. 1,017,827; Feb. 20; Sp. p. 3521; Gaz. vol. 175; p. 619.
Voorhees, Walter K., assignor to Standard Manufacturing Company, Cedar Falls, Iowa. Latch for flexible gates. No. 1,025,494; May 7; Sp. p. 870; Gaz. vol. 178; p. 135.
Voorhees, William H., New York, N. Y., assignor to American Bank Note Company. Paper-feed attachment for under-surface printing-presses. No. 1,026,938; May 21; Sp. p. 4103; Gaz. vol. 178; p. 700.
Voorhees, Wilson R., Perth Amboy, N. J. Carbureter. No. 1,014,188; Jan. 9; Sp. p. 2429; Gaz. vol. 174; p. 408.
Vorce, Albert F., assignor of one-fourth to W. M. Powers, Benzonia, and one-half to Grand Rapids Tool & Stamping Company, Grand Rapids, Mich. Perfume-vending machine. No. 1,020,334; Mar. 12; Sp. p. 2801; Gaz. vol. 176; p. 475.
Vordemfelde, Fred L., assignor of one-half to D. Miller, Celina, Ohio. Knockdown furniture. No. 1,025,103; Apr. 30; Sp. p. 7209; Gaz. vol. 177; p. 1263.
Vorhies, Leroy, Yoder, Colo. Power-transmission device. No. 1,014,102; Jan. 9; Sp. p. 2268; Gaz. vol. 174; p. 378.
Voris, George F. (See Seibert, Jacob O. M., assignor.)
Voris, George M., Chicago, Ill. Carton. No. 1,030,949; July 2; Gaz. vol. 180; p. 34.
Vorlaufer, William. (See Strother, Martin L., assignor.)
Vosburg, Robert W. (See Gaul and Vosburg.)
Vosburgh, Bert G., Warsaw, N. Y. Non-refillable bottle. No. 1,048,010; Dec. 24; Gaz. vol. 185; p. 866.
Vose, Ambrose S., Brookline, assignor of one-half to A. F. Gray, Watertown, Mass. Rotary cutter. No. 1,019,728; Mar. 5; Sp. p. 1562; Gaz. vol. 176; p. 243.
Vose & Sons Piano Company. (See Crippen, Walter R., assignor.)
Vosler, Newton G., Minneapolis, Minn. Railway-car. No. 1,036,038; Aug. 20; Gaz. vol. 181; p. 620.
Vosler, Newton G., Minneapolis, Minn. Railway-car. No. 1,036,039; Aug. 20; Gaz. vol. 181; p. 621.
Voss, Leslie M., Fillmore, N. Y. Sap-heater. No. 1,023,896; Apr. 23; Sp. p. 4558; Gaz. vol. 177; p. 813.
Voss, Samuel, Nieder-Schönhausen, near Berlin, Germany. Device for conveying brick. No. 1,025,661; May 7; Sp. p. 1236; Gaz. vol. 178; p. 191.
Voss, William, Wilmington, Del., assignor to American Car and Foundry Company, St. Louis, Mo. Passenger-car underframe. No. 1,014,791; Jan. 16; Sp. p. 3789; Gaz. vol. 174; p. 644.
Voss, William, Wilmington, Del., assignor to American Car and Foundry Company, St. Louis, Mo. Passenger-car. No. 1,045,477; Nov. 26; Gaz. vol. 184; p. 937.
Voss, William H., Davenport, Iowa. Mechanical movement. No. 1,013,629; Jan. 2; Sp. p. 1171; Gaz. vol. 174; p. 186.
Voss, William H., Davenport, Iowa. Power mechanism. No. 1,031,100; July 2; Gaz. vol. 180; p. 89.
Voss, William H., Davenport, Iowa. Mechanical movement for washing-machines. No. 1,042,853; Oct. 29; Gaz. vol. 183; p. 1207.
Vossmer, Henry A., Brighton, Mass. Hammock or swinging couch. No. 1,022,164; Apr. 2; Sp. p. 872; Gaz. vol. 177; p. 139.
Votaw, J. E. (See Walsh, Frank A., assignor.)
Vote Berger Company, The. (See Duscher, Ernest, assignor.)
Vote Berger Company, The. (See Enochs, Claude D., assignor.)
Voyles, Thomas J., Poolville, Tex. Coffee - pot. No. 1,013,340; Jan. 2; Sp. p. 555; Gaz. vol. 174; p. 89.
Vraalstad, Edward J., Buffalo, N. Y. Road-engine. No. 1,048,608; Dec. 31; Gaz. vol. 185; p. 1107.

Alphabetical list of patentees—Continued.

Vraalstad, Edward J., assignor of one-half to Buffalo Pitts Company, Buffalo, N. Y. Feeder for threshing-machines. No. 1,041,205; Oct. 15; Gaz. vol. 183; p. 584.
Vraalstad, Edward J., assignor of one-half to Buffalo Pitts Company, Buffalo, N. Y. Pneumatic stacker. No. 1,049,178; Dec. 31; Gaz. vol. 185; p. 1303.
Vradenburgh, David G., assignor of one-half to W. E. Starkey, Matteawan, N. Y. Non-refillable bottle. No. 1,041,206; Oct. 15; Gaz. vol. 183; p. 584.
Vrana, Theodore W. (See Cabasino and Vrana.)
Vredenburg, Peter B., Mechanicsville, N. Y. Hammer. No. 1,042,177; Oct. 22; Gaz. vol. 183; p. 946.
Vreeland, Henry A. (See Moore, Herbert L. G., assignor.)
Vroman, Ernest M., *et al.* (See Pickett, John B., assignor.)
Vroom, Oler P., assignor of one-half to J. P. Fell, Linneus, Mo. Register. No. 1,021,118; Mar. 26; Sp. p. 4473; Gaz. vol. 176; p. 827.
Vroom, Oler P., assignor to The Superior Hay Stacker Mfg. Co., Linneus, Mo. Corn-harvesting machine. No. 1,033,360; July 23; Gaz. vol. 180; p. 984.
Vroome, Garrett M., New York, N. Y. Line-holder. No. 1,035,062; Aug. 6; Gaz. vol. 181; p. 219.
Vuilleumier, Rudolph, New Rochelle, assignor to Pintsch Compressing Company, New York, N. Y. Apparatus for generating high-pressure oil-gas. No. 1,038,691; Sept. 17; Gaz. vol. 182; p. 580.
Vulcan Detinning Company, The. (See Dunn, John, assignor.)
Vulcan Electric Heating Company. (See Holmes, Frank J., assignor.)
Vulcan Soot Cleaner Company of Pittsburg, Pa., The. (See Hibner, De Los E., assignor.)
Vulcan Soot Cleaner Company of Pittsburg, Pa., The. (See Hibner and Linaker, assignors.)
Vulcan Soot Cleaner Company of Pittsburg, Pa., The. (See Moore, James, assignor.)
W. A. Ives Mfg. Co., The. (See Butler, George P., assignor.)
W. A. Plummer Manufacturing Company. (See Blake, George H., assignor.)
W. B. Bastian Mfg. Co. (See Bastian, William B., assignor.)
W. C. Heraeus Gesellschaft mit Beschränkter Haftung. (See Trenzen and Haagn, assignors.)
W. D. Allen Manufacturing Company. (See Gibbs, Henry, assignor.)
W. & E. T. Fitch Co., The. (See Hubbard, George M., assignor.)
W. & E. T. Fitch Co., The. (See Wright, Louis W., assignor.)
W. F. & John Barnes Company. (See Barnes, John S., assignor.)
W. F. & John Barnes Company. (See Redin, Andrew W., assignor.)
W. F. Toops & Son *et al.* (See Thomas, Martin E., assignor.)
W. G. Stowell Company, The. (See Stowell, William G., assignor.)
W. G. Wilson Company. (See Wilson, Wylie G., assignor.)
W. H. Bundy Recording Company. (See Bundy, Willard H., assignor.)
W. H. McElwain Company. (See Cook, Miller, assignor.)
W. H. McElwain Company. (See Rollins, George L., assignor.)
W. J. Bush & Co. (See Swinton, Ralph S., assignor.)
W. J. Young Machinery Company. (See Young, William J., assignor.)
W. K. Kenly Company. (See Fauth, William J., assignor.)
W. K. Prudden and Company. (See Brink, Charles L., assignor.)
W. & L. E. Gurley. (See Schulte, Edward D. N., assignor.)
W. S. Rockwell Company. (See Rockwell, Walter S., assignor.)
W. W. Sly Manufacturing Company, The. (See Lawrence, George R., assignor.)
Waage, Alvin H. and C. P., Chicago, Ill. Sad-iron. No. 1,030,036; June 18; Sp. p. 4280; Gaz. vol. 179; p. 742.
Waage, Clarence P. (See Waage, Alvin H. and C. P.)
Wachenheim, Robert, New York, N. Y. Key-chain. No. 1,048,011; Dec. 24; Gaz. vol. 185; p. 866.
Wachowiez, Jakob, Detroit, Mich. Nut-cracking device. No. 1,041,531; Oct. 15; Gaz. vol. 183; p. 693.
Wack, Daniel F., Jr., Pittsburgh, Pa. Wrench. No. 1,044,712; Nov. 19; Gaz. vol. 184; p. 642.
Wackenreuter, A. G. (See Nowak, Carl A., assignor.)
Wacker, Charles H. (See Bauroth, Leonhard, assignor.)
Wacker, Karl, and E. Hildenbrand, Pforzheim, Germany. Feed apparatus for use in the manufacture of cord-chains. No. 1,030,215; June 18; Sp. p. 4670; Gaz. vol. 179; p. 802.
Wackerhagen, Edward, Fort Lee, N. J. Spool or bobbin winding machine. No. 1,031,213; July 2; Gaz. vol. 180; p. 129.
Wackermann, Frank, Carrick, and C. Zabel; said Zabel assignor to Lewis Foundry & Machine Company, Pittsburgh, Pa. Roll-adjusting mechanism. No. 1,020,064; Mar. 12; Sp. p. 2251; Gaz. vol. 176; p. 387.
Wackwitz, Ernest F., assignor to The Peerless Motor Car Company, Cleveland, Ohio. Lighting system. No. 1,031,101; July 2; Gaz. vol. 180; p. 90.
Wackwitz, Ernest F., assignor to The Peerless Motor Car Company, Cleveland, Ohio. Storage-battery grid. No. 1,044,831; Nov. 19; Gaz. vol. 184; p. 683.
Waddell, Joseph A., Jr. (See Boies and Waddell.)
Waddell Manufacturing Company. (See Aldworth, Edward J., assignor.)
Waddill, Fletcher H., and R. D. Fonda, Dexter, N. Mex. Auto cranking device. No. 1,026,534; May 14; Sp. p. 3173; Gaz. vol. 178; p. 524.
Waddington, Florence, Baltimore, Md. Cut toy figure. No. 1,041,917; Oct. 22; Gaz. vol. 183; p. 861.
Waddington, Joe S., Bradford, England. Treatment of sewage. No. 1,019,933; Mar. 12; Sp. p. 1988; Gaz. vol. 176; p. 344.
Waddle, Norman W. (See Sprinkle, John J., assignor.)
Wade, Charles S. (See Weldon, John H., assignor.)
Wade, Charles T., Annapolis, Md. Gas-engine. No. 1,040,472; Oct. 8; Gaz. vol. 183; p. 298.
Wade, David W. (See Hiller and Wade.)
Wade, Evan H. (See Loedige, Frederick, assignor.)
Wade, George T., assignor of one-half to J. F. Knight, Rockland, Me. Tally device. No. 1,033,133; July 23; Gaz. vol. 180; p. 907.
Wade, Lemuel D., Paul, Ala. Nut-lock. No. 1,030,146; June 18; Sp. p. 4513; Gaz. vol. 179; p. 779.
Wade, Robert C., Malden, Mo. Sectional smoke-burner. No. 1,033,134; July 23; Gaz. vol. 180; p. 908.
Wade, William, and M. C. Peterson, San Antonio, Tex. Gate. No. 1,046,350; Dec. 3; Gaz. vol. 185; p. 192.
Wadewitz, Alfred H., Racine, Wis. Printing-chase. No. 1,048,241; Dec. 24; Gaz. vol. 185; p. 942.
Wadham, Robert, Stockholm, Sweden. Heater for water. No. 1,028,979; June 11; Sp. p. 1978; Gaz. vol. 179; p. 341.
Wadhams, Darius T., assignor to N. Gray, Jr., Oswego, N. Y. Paper-cutting machine. No. 1,028,919; June 11; Sp. p. 1851; Gaz. vol. 179; p. 321.
Wadhams, Darius T., assignor to N. Gray, Jr., Oswego, N. Y. Paper-cutting machine. No. 1,028,920; June 11; Sp. p. 1857; Gaz. vol. 179; p. 322.
Wadhams, James E., *et al.* (See Young, Henry, assignor.)
Wadleigh, Theodore, Knierim, Iowa. Gate-fastener. No. 1,036,040; Aug. 20; Gaz. vol. 181; p. 621.
Wadlington, David M., Goree, Tex. Elevating-truck. No. 1,015,104; Jan. 16; Sp. p. 4470; Gaz. vol. 174; p. 753.
Wadsworth, Dwight W., Bangor, Mich. Relief-valve for spraying-pumps. No. 1,031,214; July 2; Gaz. vol. 180; p. 130.
Wadsworth, Frank L. O., Sewickley, Pa. Water-heater construction. No. 1,044,954; Nov. 19; Gaz. vol. 184; p. 725.
Wadsworth, Frederick E. (See Barthel, Frederick, assignor.)
Wadsworth, Henry L., *et al.* (See Miller, Alfred K., assignor.)
Wadsworth, Robert. (See Pearsall and Hill, assignors.)
Wadsworth, William, Wichita, Kans. Carrier for bottles. No. 1,013,705; Jan. 2; Sp. p. 1362; Gaz. vol. 174; p. 212.
Waerness, Henry T., Chicago, Ill. Safety side pocket. No. 1,040,819; Oct. 8; Gaz. vol. 183; p. 421.
Wagandt, Charles L., Baltimore, Md. Flame-spreader for oil-burners. No. 1,043,484; Nov. 5; Gaz. vol. 184; p. 158.
Wageley, Robert E., deceased; F. R. Cornwall, administrator, assignor to Moon-Hopkins Billing Machine Company, St. Louis, Mo. Calculating-machine. No. 1,030,975; July 2; Gaz. vol. 180; p. 43.
Wagener, Edward A., assignor of one-half to C. E. Close, Oklahoma, Okla. Wrench. No. 1,033,768; July 23; Gaz. vol. 180; p. 1116.
Wagener, Gustav, Schlebusch-Manfort, Germany, assignor to E. I. du Pont de Nemours Powder Company, Wilmington, Del. Method and apparatus for the carrying out of gas reactions by means of an electric arc. No. 1,039,851; Oct. 1; Gaz. vol. 183; p. 61.
Wagener, Gustav, Schlebusch-Manfort, Germany, assignor to E. I. du Pont de Nemours Powder Company, Wilmington, Del. Method of and apparatus for carrying out gas reactions by the use of an electric arc. No. 1,039,852; Oct. 1; Gaz. vol. 183; p. 62.
Wagenhals, William G., Detroit, Mich. Chassis. No. 1,030,357; June 25; Sp. p. 5012; Gaz. vol. 179; p. 894.
Wagenlander, Charles, assignor of one-half to E. Wagenlander, Pittsburgh, Pa. Foldable rule. No. 1,037,689; Sept. 3; Gaz. vol. 182; p. 173.
Wagenlander, Edward. (See Wagenlander, Charles, assignor.)
Wager, Robert, Jersey City, N. J. Bridge-wall for furnaces. No. 1,024,301; Apr. 23; Sp. p. 5441; Gaz. vol. 177; p. 954.
Wagg, Edward E., Ranelagh, via Hobart, Tasmania, Australia. Fruit and other grader. No. 1,027,089; May 21; Sp. p. 4467; Gaz. vol. 178; p. 753.
Wagg, James B. (See Wagg, Solomon R., W. L., and J. B.)
Wagg, Solomon R., W. L., and J. B., Appleton, Wis. Sizing paper. No. 1,032,973; July 16; Gaz. vol. 180; p. 814.

Alphabetical list of patentees—Continued.

Wagg, William L. (See Wagg, Solomon R., W. L., and J. B.)
Waggoner, Albert E., assignor of three-fourths to G. W. Lyndon, Chicago, Ill. Fire-bucket. No. 1,024,609; Apr. 30; Sp. p. 6194; Gaz. vol. 177; p. 1093.
Waggoner, Orva L., Latham, Kans. Stacker. No. 1,029,520; June 11; Sp. p. 3138; Gaz. vol. 179; p. 526.
Wagner, Albrecht, Berlin, Germany. Adjusting device for rotary grinding-machines. No. 1,035,925; Aug. 20; Gaz. vol. 181; p. 583.
Wagner, Albrecht, Berlin, Germany. Adjusting device for rotary grinding-machines. No. 1,044,308; Nov. 12; Gaz. vol. 184; p. 472.
Wagner, Charles, Grantwood, N. J. Hose-reel. No. 1,043,647; Nov. 5; Gaz. vol. 184; p. 213.
Wagner, Charles, Grantwood, N. J. Hose-reel. No. 1,046,909; Dec. 10; Gaz. vol. 185; p. 426.
Wagner, Charles, Brooklyn, N. Y., assignor to Sterling Bronze Company. Junction-box cover. No. 1,041,918; Oct. 22; Gaz. vol. 183; p. 861.
Wagner, Edward, assignor to The Model Bottling Machinery Company, St. Louis, Mo. Bottle-cleaner. No. 1,041,532; Oct. 15; Gaz. vol. 183; p. 693.
Wagner, Edward L., New York, N. Y., assignor to New York Sewage Disposal Co. Sewage-diverting gate. No. 1,035,926; Aug. 20; Gaz. vol. 181; p. 583.
Wagner, Emanuel, New York, N. Y. Combined settler and filter. No. 1,041,533; Oct. 15; Gaz. vol. 183; p. 693.
Wagner, Emanuel F., New York, N. Y. Color-study device. (Reissue.) No. 13,358; Jan. 9; Sp. p. 3428; Gaz. vol. 174; p. 567.
Wagner, Frank. (See Kieweg, Moeller, and Wagner.)
Wagner, Frank U., Milford, Ind. Picture-book. No. 1,028,921; June 11; Sp. p. 1860; Gaz. vol. 179; p. 322.
Wagner, Frederick, Port Huron, Mich. Sling or trip pulley. No. 1,031,494; July 2; Gaz. vol. 180; p. 225.
Wagner, Frederick A., Norwood, Ohio. Combined drill, center-reamer, and countersink-tool. No. 1,017,352; Feb. 13; Sp. p. 2481; Gaz. vol. 175; p. 421.
Wagner, Frederick A., Seneca Falls, N. Y. Cutter-securing means. No. 1,047,466; Dec. 17; Gaz. vol. 185; p. 650.
Wagner, Frederick H., Baltimore, Md. Purifying gas and recovering by-products. No. 1,020,168; Mar. 12; Sp. p. 2478; Gaz. vol. 176; p. 422.
Wagner, Fritz, Gross-Lichterfelde, near Berlin, Germany. Means for obviating the vibrations of main pressure-actuated valves. No. 1,046,236; Dec. 3; Gaz. vol. 185; p. 152.
Wagner, Firm of Günther. (See Schäfer, Johann W., assignor.)
Wagner, Gustavus A., Jasper, Mich. Former or mold for forming concrete cisterns. No. 1,029,646; June 18; Sp. p. 3408; Gaz. vol. 179; p. 607.
Wagner, Henry, Louisa county, Iowa. Brace for fence-posts. No. 1,030,497; June 25; Sp. p. 5325; Gaz. vol. 179; p. 943.
Wagner, Henry C., Brooklyn, N. Y. Signal-lamp. No. 1,024,302; Apr. 23; Sp. p. 5445; Gaz. vol. 177; p. 954.
Wagner, Henry J., Bloomington, Ill. Insect-exterminator. No. 1,032,255; July 9; Gaz. vol. 180; p. 527.
Wagner, Henry J., Dellwood, N. Y. Building construction. No. 1,046,910; Dec. 10; Gaz. vol. 185; p. 426.
Wagner, Herman, *et al.* (See Haws, William H., assignor.)
Wagner, Hermann, and J. Erber, assignors to Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany. Monoazo dyestuff and making same. No. 1,016,307; Feb. 6; Sp. p. 157; Gaz. vol. 175; p. 24.
Wagner, Hermann, and J. Erber, assignors to Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany. Dyestuffs and making same. No. 1,041,919; Oct. 22; Gaz. vol. 183; p. 862.
Wagner, Hubert, Munich-Schwabing, assignor to Charlottenburger Farbwerke Aktien Gesellschaft, Charlottenburg, Germany. Lithographic stone. No. 1,029,835; June 18; Sp. p. 3841; Gaz. vol. 179; p. 674.
Wagner, Jacob, assignor of one-half to M. Factor, Los Angeles, Cal. Dry concentrator. No. 1,045,478; Nov. 26; Gaz. vol. 184; p. 938.
Wagner, Johannes E. von, Oakmont, Pa. Operating device for window-louvers. No. 1,014,679; Jan. 16; Sp. p. 3555; Gaz. vol. 174; p. 608.
Wagner, John F., Tamaqua, Pa. Drive-chain. No. 1,046,124; Dec. 3; Gaz. vol. 185; p. 112.
Wagner, Joseph F., assignor to Arnold-Wagner Electric Co., South Bend, Ind. Electric flash-light. No. 1,042,623; Oct. 29; Gaz. vol. 183; p. 1128.
Wagner Manufacturing Company, The. (See Bingham, Robert O., assignor.)
Wagner, Martin, Raymond, Minn. Resilient wheel. No. 1,034,327; July 30; Gaz. vol. 180; p. 1339.
Wagner, Paul, Charlottenburg, Germany, assignor to General Electric Company. Bucket-wheel. No. 1,021,222; Mar. 26; Sp. p. 4707; Gaz. vol. 176; p. 861.
Wagner, Paul, Charlottenburg, Germany, assignor to General Electric Company. Divided packing-ring for rotating shafts. No. 1,041,534; Oct. 15; Gaz. vol. 183; p. 694.
Wagner, Raoul D., Paris, France. Apertured bolt applicable especially for fixing rails onto the wooden sleepers. No. 1,021,390; Mar. 26; Sp. p. 5057; Gaz. vol. 176; p. 920.
Wagner, Robert. (See Schäfer and Wagner.)
Wagner, Warren, Petrolia, Tex. Underreamer. No. 1,038,243; Sept. 10; Gaz. vol. 182; p. 390.
Wagner, Warren, Petrolia, Tex. Shut-off head for casings and the like. No. 1,038,244; Sept. 10; Gaz. vol. 182; p. 390.
Wagner, William G., London, England. Production of films or thin sheets of metals. No. 1,025,848; May 7; Sp. p. 1613; Gaz. vol. 178; p. 256.
Wagoner, James B., Los Angeles, Cal. Rectal dynamo. No. 1,042,624; Oct. 29; Gaz. vol. 183; p. 1128.
Wahl, Joseph, New York, N. Y. Crate. No. 1,027,631; May 28; Sp. p. 5561; Gaz. vol. 178; p. 972.
Wahl, Joseph, New York, N. Y. Folding crate. No. 1,045,479; Nov. 26; Gaz. vol. 184; p. 938.
Wahl, Robert, Chicago, Ill. Manufacture of fermented malt beverages. No. 1,023,448; Apr. 16; Sp. p. 3618; Gaz. vol. 177; p. 642.
Wahl, Robert, Chicago, Ill. Sour liquid. No. 1,028,508; June 4; Sp. p. 980; Gaz. vol. 179; p. 148.
Wahle, Adolph, assignor to Davenport Washing Machine Company, Davenport, Iowa. Gearing. No. 1,037,690; Sept. 3; Gaz. vol. 182; p. 173.
Wahlen, Firm of J. (See Antoni, Frederic A., assignor.)
Wahlin, Walter E., Garfield, Utah. Ore-feeder. No. 1,032,256; July 9; Gaz. vol. 180; p. 527.
Wahlstrom, John, and S. Haunsperger, Alton, Ill. Casting-machine. No. 1,042,854; Oct. 29; Gaz. vol. 183; p. 1208.
Wahlstrom, Verner J., assignor of one-half to B. T. Burchardi, Brooklyn, N. Y. Chuck. No. 1,026,187; May 14; Sp. p. 2416; Gaz. vol. 178; p. 406.
Wahlstrom, Verner J., assignor of one-half to B. T. Burchardi, Brooklyn, N. Y. Drill and chuck. No. 1,046,237; Dec. 3; Gaz. vol. 185; p. 153.
Waibel, Frederick B., Newark, N. J. Dip-tank with automatic cover. No. 1,020,526; Mar. 19; Sp. p. 3220; Gaz. vol. 176; p. 576.
Waibel, Frederick B., assignor to The J. E. Mergott Company, Newark, N. J. Bag-fastener. No. 1,043,177; Nov. 5; Gaz. vol. 184; p. 47.
Waid, Calvin R. (See Beatty, William H., assignor.)
Waid, Calvin R., Birmingham, Ala. Furnace. No. 1,042,059; Oct. 22; Gaz. vol. 183; p. 907.
Waing, Nickolaus, New York, N. Y. Lock. No. 1,042,508; Oct. 29; Gaz. vol. 183; p. 1087.
Wainwright, Charles, Erie, Pa. Valve. No. 1,036,387; Aug. 20; Gaz. vol. 181; p. 745.
Wainwright, Richard T., Rye, N. Y. Shock-absorber. No. 1,032,454; July 16; Gaz. vol. 180; p. 638.
Wais, Charles C., Oakley, Ohio. Metal-working machinery. No. 1,046,691; Dec. 10; Gaz. vol. 185; p. 351.
Wait, Alfred. (See Tolhurst and Wait.)
Wait, George E., assignor to The Ober Manufacturing Company, Chagrin Falls, Ohio. Sad-iron. No. 1,021,344; Mar. 26; Sp. p. 4961; Gaz. vol. 176; p. 905.
Wait, William B., New York, N. Y. Sheet-conveying apparatus. No. 1,044,713; Nov. 19; Gaz. vol. 184; p. 643.
Wait, William B., New York, N. Y. Embossing device. No. 1,046,351; Dec. 3; Gaz. vol. 185; p. 192.
Waite, Alpha A., La Harpe, Kans. Steering-gear. No. 1,043,178; Nov. 5; Gaz. vol. 184; p. 48.
Waite, Alpha A., La Harpe, Kans. Motor-plow. No. 1,047,344; Dec. 17; Gaz. vol. 185; p. 610.
Waite, Charles C., assignor to Shedd Electric Company, Roselle Park, N. J. Oscillating motor-driven fan. No. 1,026,062; May 14; Sp. p. 2135; Gaz. vol. 178; p. 363.
Waite, Coleman H., and G. Walker, assignors to Taylor-Burt Company, Holyoke, Mass. Producing mottled or variegated paper. No. 1,017,931; Feb. 20; Sp. p. 3786; Gaz. vol. 175; p. 657.
Waite, Edward B. (See Beauregard, Victor, assignor.)
Waite, Edwin E., assignor of one-half to W. B. Scofield, Worcester, Mass. Boot and shoe. No. 1,015,364; Jan. 23; Sp. p. 5026; Gaz. vol. 174; p. 867.
Waite, Fred, Otley, England, assignor to Auto Falcon & Waite Die Press Company, Limited, Chicago, Ill. Press for printing and embossing in relief. No. 1,043,884; Nov. 12; Gaz. vol. 184; p. 326.
Waite, Frederick E., Oshkosh, Wis. Grass-gathering machine. No. 1,030,950; July 2; Gaz. vol. 180; p. 34.
Waite Grass Carpet Co. (See Waite, Ossian T., assignor.)
Waite, Harry F., Harrison, N. Y. X-ray apparatus. No. 1,024,165; Apr. 23; Sp. p. 5155; Gaz. vol. 177; p. 906.
Waite, Ossian T., assignor to Waite Grass Carpet Co., Oshkosh, Wis. Grass-twine machine. No. 1,019,383; Mar. 5; Sp. p. 885; Gaz. vol. 176; p. 131.
Waite, William T., assignor of one-half to S. M. Henley, Kansas City, Mo. Piano-player mechanism. No. 1,028,163; June 4; Sp. p. 245; Gaz. vol. 179; p. 29.
Waitt, Benjamin, guardian. (See Waitt, George W.)
Waitt, George W.; B. Waitt, guardian, Camden, N. J. Wrench. No. 1,041,707; Oct. 15; Gaz. vol. 183; p. 751.
Waitz, Charles A., Rouseville, Pa. Deep-well pump. No. 1,014,271; Jan. 9; Sp. p. 2622; Gaz. vol. 174; p. 437.

Alphabetical list of patentees—Continued.

Waitz, Charles A., Rouseville, Pa. Wall-packer for oil-wells. No. 1,014,272; Jan. 9; Sp. p. 2624; Gaz. vol. 174; p. 438.
Wajda, Floryan, assignor of one-half to M. Dubish, Chicago, Ill. Tie and rail-fastener. No. 1,015,657; Jan. 23; Sp. p. 5662; Gaz. vol. 174; p. 967.
Wake, Charles E., assignor of one-half to C. A. Andrew, Walla Walla, Wash. Adjustable piston-ring clamp. No. 1,017,828; Feb. 20; Sp. p. 3525; Gaz. vol. 175; p. 620.
Wakefield, Albert, Washington, D. C. Breech-block. No. 1,023,976; Apr. 23; Sp. p. 4733; Gaz. vol. 177; p. 840.
Wakefield, Frederick W., assignor to The F. W. Wakefield Brass Company, Vermilion, Ohio. Lighting-fixture. No. 1,046,238; Dec. 3; Gaz. vol. 185; p. 153.
Wakefield, Frederick W., assignor to The F. W. Wakefield Brass Company, Vermilion, Ohio. Chain. No. 1,049,179; Dec. 31; Gaz. vol. 185; p. 1303.
Wakefield, George M., assignor to E. Goldman & Co., Inc., Chicago, Ill. Bottle-holder for bottle-cleansing machines. No. 1,017,829; Feb. 20; Sp. p. 3527; Gaz. vol. 175; p. 620.
Wakefield, Leslie A., assignor to Wakefield Sales Co., Trempealeau, Wis. Envelop moistening and sealing machine. No. 1,043,053; Oct. 29; Gaz. vol. 183; p. 1276.
Wakefield, Ralph A., Sacramento, Cal. Automatic gravity pivot-headlight. No. 1,013,706; Jan. 2; Sp. p. 1363; Gaz. vol. 174; p. 213.
Wakefield, Ralph A., assignor of one-fourth to E. A. Boutwell and one-fourth to W. M. Campbell, Sacramento, Cal. Oil-can. No. 1,046,515; Dec. 10; Gaz. vol. 185; p. 289.
Wakefield Sales Co. (See Wakefield, Leslie A., assignor.)
Wakeman, Charles A. (See Dichmann, William, assignor.)
Walace, Belden, *et al.* (See Moon, Clyde, assignor.)
Walbridge, William D. (See Martin, Robert H., assignor.)
Walcott, Carleton E., Waterbury, Conn. Animal-trap. No. 1,022,115; Apr. 2; Sp. p. 769; Gaz. vol. 177; p. 122.
Wald, Frank, Dalmatia, Pa., assignor to United Shoe Machinery Company, Paterson, N. J. Sole-channeling machine. No. 1,022,714; Apr. 9; Sp. p. 2073; Gaz. vol. 177; p. 356.
Walda, Henry B., Fort Wayne, Ind. Steam-turbine. No. 1,048,012; Dec. 24; Gaz. vol. 185; p. 866.
Waldeck, Charles A., Catonsville, Md. Flash-light apparatus. No. 1,038,245; Sept. 10; Gaz. vol. 182; p. 391.
Walden, Arthur M., Hicksville, N. Y. Gear for children's carriages. No. 1,023,692; Apr. 16; Sp. p. 4089; Gaz. vol. 177; p. 718.
Walden, Frederick E. (See McGeary, Luman A., assignor.)
Waldheim, John, Newark, assignor, by mesne assignments, to Union Typewriter Company, Jersey City, N. J. Typewriting machine. No. 1,021,391; Mar. 26; Sp. p. 5059; Gaz. vol. 176; p. 921.
Waldheim, John, Newark, assignor, by mesne assignments, to Union Typewriter Company, Jersey City, N. J. Typewriting machine. No. 1,021,392; Mar. 26; Sp. p. 5071; Gaz. vol. 176; p. 921.
Waldheim, John, Newark, assignor, by mesne assignments, to Union Typewriter Company, Jersey City, N. J. Typewriting machine. No. 1,021,393; Mar. 26; Sp. p. 5083; Gaz. vol. 176; p. 922.
Waldheim, John, Newark, assignor, by mesne assignments, to Union Typewriter Company, Jersey City, N. J. Typewriting machine. No. 1,025,171; May 7; Sp. p. 134; Gaz. vol. 178; p. 23.
Waldheim, John, Newark, assignor, by mesne assignments, to Union Typewriter Company, Jersey City, N. J. Type-writing machine. No. 1,028,922; June 11; Sp. p. 1861; Gaz. vol. 179; p. 322.
Waldheim, John, Newark, assignor to Union Typewriter Company, Jersey City, N. J. Type-writing machine. No. 1,036,388; Aug. 20; Gaz. vol. 181; p. 746.
Waldheim, John, Newark, assignor to Union Typewriter Company, Jersey City, N. J. Type-writing machine. No. 1,043,485; Nov. 5; Gaz. vol. 184; p. 158.
Waldman, Charles F., Los Angeles, Cal. Elastic tire for vehicle-wheels. No. 1,023,344; Apr. 16; Sp. p. 3412; Gaz. vol. 177; p. 609.
Waldman, Herman C., St. Louis, Mo. Fire-door. No. 1,034,848; Aug. 6; Gaz. vol. 181; p. 151.
Waldmann, Julius, Berlin, assignor to The Firm of E. Schichtmeyer, Charlottenburg, Germany. Sliding support for lanterns. No. 1,041,207; Oct. 15; Gaz. vol. 183; p. 585.
Waldo, Albert L., Flint, Mich. Combination library-table. No. 1,044,309; Nov. 12; Gaz. vol. 184; p. 472.
Waldon, Sidney D., assignor to Packard Motor Car Company, Detroit, Mich. Hydrocarbon-motor. No. 1,036,756; Aug. 27; Gaz. vol. 181; p. 902.
Waldrep, Albert S., Chicago, Ill. Car-coupling. No. 1,022,614; Apr. 9; Sp. p. 1824; Gaz. vol. 177; p. 319.
Waldron, Edward B., Paterson, N. J. Detonating-alarm device. No. 1,014,792; Jan. 16; Sp. p. 3793; Gaz. vol. 174; p. 644.
Waldron, Franklin C., New York, N. Y. Wrapping or mailing machine. No. 1,033,968; July 30; Gaz. vol. 180; p. 1214.
Waldron, Jesse. (See Sabatino, John, assignor.)
Waldschmidt, Henry, Benson, Ill. Draft-bar attachment for harrows. No. 1,013,573; Jan. 2; Sp. p. 1041; Gaz. vol. 174; p. 168.
Waldspurger, Ernest A., Philadelphia, Pa. Nose-bag for horses. No. 1,017,610; Feb. 13; Sp. p. 3005; Gaz. vol. 175; p. 508.
Waldt, Andrew, St. Louis, Mo. Stereotyper's steam-table. No. 1,029,647; June 18; Sp. p. 3410; Gaz. vol. 179; p. 607.
Waldvogel, Paul E., Milwaukee, assignor to Mallery Manufacturing Company, South Milwaukee, Wis. Draft appliance. No. 1,027,677; May 28; Sp. p. 5663; Gaz. vol. 178; p. 987.
Walent, Markus, assignor of one-half to A. Greenberger, Berwick, Pa. Cuspidor. No. 1,019,565; Mar. 5; Sp. p. 1264; Gaz. vol. 176; p. 189.
Walerius, Casper, St. Paul, Minn. Automatic coupling for air-pipes. No. 1,037,089; Aug. 27; Gaz. vol. 181; p. 1013.
Wales, Elisha L., Monson, Mass. Edge-forming machine. No. 1,047,345; Dec. 17; Gaz. vol. 185; p. 610.
Wales, Nathaniel B., Braintree, Mass., assignor to G. B. Collier, Kinderhook, N. Y. Heating apparatus. No. 1,043,553; Nov. 5; Gaz. vol. 184; p. 182.
Wales, Nathaniel B., Boston, Mass., and G. B. Collier, Kinderhook, N. Y.; said Wales assignor to said Collier. Turbine. No. 1,014,350; Jan. 9; Sp. p. 2817; Gaz. vol. 174; p. 466.
Wales, Philip, Covington, Ky. Piane tone-modifier. No. 1,024,235; Apr. 23; Sp. p. 5323; Gaz. vol. 177; p. 932.
Wales, Samuel S., Munhall, Pa. Heating-furnace. No. 1,018,999; Feb. 27; Sp. p. 6141; Gaz. vol. 175; p. 1055.
Walhof, Charles A., assignor of one-half to I. S. Large, Rock Valley, Iowa. Projectoscope. No. 1,028,803; June 4; Sp. p. 1576; Gaz. vol. 179; p. 246.
Walick, Anthony. (See Kerr, Jennie M., assignor.)
Walint, Markus, assignor of one-third to A. Greenberger and one-third to L. Marko, Berwick, Pa. Ice-making device. No. 1,044,310; Nov. 12; Gaz. vol. 184; p. 472.
Walke, Sanford E., Amesbury, Mass. Wood-bending device. No. 1,016,721; Feb. 6; Sp. p. 1101; Gaz. vol. 175; p. 169.
Walker, Albert R., assignor to Windhorst & Company, St. Louis, Mo. Gas-lighting apparatus. No. 1,032,791; July 16; Gaz. vol. 180; p. 754.
Walker, Alexander, assignor to What Cheer Tool Co., What Cheer, Iowa. Detachable pick-point. No. 1,024,754; Apr. 30; Sp. p. 6498; Gaz. vol. 177; p. 1144.
Walker, Alexander, assignor to What Cheer Tool Co., What Cheer, Iowa. Boxing. No. 1,043,377; Nov. 5; Gaz. vol. 184; p. 119.
Walker, Alfred, Huyton, near Liverpool, England. String-holder. No. 1,034,939; Aug. 6; Gaz. vol. 181; p. 180.
Walker, Allan. (See Bowen and Walker.)
Walker, Alvin G., Pacific Junction, Iowa. Tire. No. 1,042,178; Oct. 22; Gaz. vol. 183; p. 946.
Walker, Anthony J., *et al.* (See De Mars, Joseph, assignor.)
Walker & Bennett Mfg. Co. (See Walker and Bennett, assignors.)
Walker, Charles E., *et al.* (See Bottom, Hartwell H., assignor.)
Walker, Charles H., *et al.* (See Anthony, Marcus O., assignor.)
Walker, Charles H., assignor to Burroughs Adding Machine Company, Detroit, Mich. Adding and listing machine. No. 1,016,308; Feb. 6; Sp. p. 157; Gaz. vol. 175; p. 25.
Walker, Charles L., Detroit, assignor to J. W. Lucas, Benton Harbor, Mich. Automobile construction. No. 1,048,770; Dec. 31; Gaz. vol. 185; p. 1164.
Walker, Charles W., Stratford, Conn., assignor to Wyckoff, Seamans & Benedict, Ilion, N. Y. Type-writing machine. No. 1,017,717; Feb. 20; Sp. p. 3228; Gaz. vol. 175; p. 580.
Walker, Columbus M. (See Vaught and Walker.)
Walker, Edward T., and E. G. Busse, assignors to Chicago Railway Equipment Company, Chicago, Ill. Adjustable brake-head. No. 1,031,303; July 2; Gaz. vol. 180; p. 161.
Walker, Edwin, Erie, Pa. Making corkscrews. No. 1,038,692; Sept. 17; Gaz. vol. 182; p. 581.
Walker, Edwin J., Philadelphia, Pa. Bin. No. 1,027,945; May 28; Sp. p. 6271; Gaz. vol. 178; p. 1077.
Walker, Enos L., St. Louis, Mo. Shipping-box. No. 1,046,692; Dec. 10; Gaz. vol. 185; p. 351.
Walker, Everett H., assignor to Lawrence Manufacturing Company, Lowell, Mass. Circular-knitting machine. No. 1,034,665; Aug. 6; Gaz. vol. 181; p. 87.
Walker, Frank H., Atwood, Kans. Starting device for internal-combustion engines. No. 1,022,281; Apr. 2; Sp. p. 1106; Gaz. vol. 177; p. 177.
Walker, Frank H., Lincoln, Nebr. Carbureter for starting internal-combustion engines. No. 1,026,889; May 21; Sp. p. 3968; Gaz. vol. 178; p. 683.
Walker, Frank H., Laporte, Ind. Carbureter. No. 1,039,229; Sept. 24; Gaz. vol. 182; p. 780.
Walker, Frank J., Jr., Erie, Pa. Apparatus for handling grape-juice and other fluids. No. 1,049,180; Dec. 31; Gaz. vol. 185; p. 1303.

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Walker, Frank L., *et al.* (See Woodman, John J., assignor.)
Walker, Frank L., Chattaroy, Wash. Washing-machine. No. 1,024,381; Apr. 23; Sp. p. 5577; Gaz. vol. 177; p. 978.
Walker, Frank R. (See Hardy, Edward J., assignor.)
Walker, Gaines M., St. Louis, Mo. Shipping-box. No. 1,032,315; July 9; Gaz. vol. 180; p. 547.
Walker, Gene L., assignor of one-half to T. B. Wilkins, Custer, S. D. Sanitary cuspidor. No. 1,046,911; Dec. 10; Gaz. vol. 185; p. 426.
Walker, George. (See Waite and Walker.)
Walker, George, Raton, N. Mex. Lathe attachment. No. 1,030,439; June 25; Sp. p. 5189; Gaz. vol. 179; p. 923.
Walker, George, assignor to Landers, Frary & Clark, New Britain, Conn. Utensil-handle and attaching means therefor. No. 1,031,495; July 2; Gaz. vol. 180; p. 226.
Walker, George, assignor to Landers, Frary & Clark, New Britain, Conn. Spring-scale. No. 1,041,208; Oct. 15; Gaz. vol. 183; p. 585.
Walker, George, assignor to Landers, Frary & Clark, New Britain, Conn. Counter-scale. No. 1,048,242; Dec. 24; Gaz. vol. 185; p. 942.
Walker, George E., Masten, Pa. Picture-hanger. No. 1,032,572; July 16; Gaz. vol. 180; p. 678.
Walker, George S., Boston, assignor of one-half to E. J. Chadbourne, Wakefield, Mass. Sparking plug. No. 1,018,383; Feb. 20; Sp. p. 4744; Gaz. vol. 175; p. 813.
Walker, Harry S. (See Glass and Walker.)
Walker, Harry S. C., Alexandria, Pa. Brick-machine. No. 1,022,165; Apr. 2; Sp. p. 874; Gaz. vol. 177; p. 139.
Walker, Henry E., Honolulu, Hawaii. Grain-cleaning machine. No. 1,020,377; Mar. 12; Sp. p. 2887; Gaz. vol. 176; p. 489.
Walker, Jack L., Dallas, Tex. Type-writer attachment. No. 1,031,215; July 2; Gaz. vol. 180; p. 130.
Walker, Jack L., Dallas, Tex. Counting attachment for type-writers. No. 1,033,361; July 23; Gaz. vol. 180; p. 985.
Walker, James, Poplar, assignor to James Walker and Company Limited, London, England. Packing. No. 1,035,279; Aug. 13; Gaz. vol. 181; p. 325.
Walker, James A., Rockford, Ill. Starting device for engines. No. 1,025,344; May 7; Sp. p. 527; Gaz. vol. 178; p. 82.
Walker, James B., Rush Springs, Okla. Drinking-cup holder. No. 1,019,934; Mar. 12; Sp. p. 1989; Gaz. vol. 176; p. 344.
Walker, James E. (See Ayres, George W., assignor.)
Walker, James J., London, England. Apparatus for automatically playing pianofortes, carillons, and other musical instruments. No, 1,017,932; Feb. 20; Sp. p. 3787; Gaz. vol. 175; p. 657.
Walker, Jesse W. (See Loe, Syver, assignor.)
Walker, John, Jr., London, England. Book and leaves therefor. No. 1,018,459; Feb. 27; Sp. p. 4924; Gaz. vol. 175; p. 870.
Walker, John B., Ensley, Ala. Apparatus for casting furnace-doors. No. 1,018,090; Feb. 20; Sp. p. 4138; Gaz. vol. 175; p. 712.
Walker, John B., Ensley, Ala. Wheel-casting machine. No. 1,024,755; Apr. 30; Sp. p. 6500; Gaz. vol. 177; p. 1144.
Walker, John G., Sewaren, N. J. Suction-cleaner. No. 1,017,275; Feb. 13; Sp. p. 2323; Gaz. vol. 175; p. 395.
Walker, John H., Lexington, Ky. Trolley. No. 1,029,408; June 11; Sp. p. 2926; Gaz. vol. 179; p. 489.
Walker, John M. (See Purcell and Walker.)
Walker, John P., Rolla, Mo. Making precipitated barium sulfate. No. 1,040,594; Oct. 8; Gaz. vol. 183; p. 344.
Walker, John S., Pittsburgh, Pa. Heater. No. 1,018,793; Feb. 27; Sp. p. 5694; Gaz. vol. 175; p. 984.
Walker, Joseph, Alexandria, Va., assignor to Chambers Brothers Company. Rotary brick-machine. No. 1,031,747; July 9; Gaz. vol. 180; p. 354.
Walker, Joseph L., Baton Rouge, La. Wheel. No. 1,023,282; Apr. 16; Sp. p. 3298; Gaz. vol. 177 p. 589.
Walker, Joseph L., Baton Rouge, La. Axle. No. 1,023,283; Apr. 16; Sp. p. 3299; Gaz. vol. 177; p. 589.
Walker, Lewellyn B. (See Macom and Walker.)
Walker-Longfellow Company. (See Chase, Frederic D., Jr., assignor.)
Walker, Miles, Hale, England, assignor to Westinghouse Electric and Manufacturing Company. Dynamo-electric machine. No. 1,036,757; Aug. 27; Gaz. vol. 181; p. 902.
Walker, Napolean E., Ontario, assignor of one-fourth to T. L. Lorbeer, Hemet, Cal. Laundry-iron. No. 1,017,933; Feb. 20; Sp. p. 3790; Gaz. vol. 175; p. 658.
Walker, Oakley S., Worcester, Mass. Magnetic chuck. No. 1,013,574; Jan. 2; Sp. p. 1043; Gaz. vol. 174; p. 168.
Walker, Oakley S., Worcester, Mass. Electrical switch. No. 1,031,031; July 2; Gaz. vol. 180; p. 64.
Walker, Oral B., Taylorville, Ill. Insulator. No. 1,032,715; July 16; Gaz. vol. 180; p. 730.
Walker, Ralph, Westhope, N. D. Elevating and bunching attachment for mowing-machines. No. 1,021,023; Mar. 26; Sp. p. 4284; Gaz. vol. 176; p. 796.
Walker, Sallie B., South Berkeley, assignor of one-half to T. R. Goth, San Francisco, Cal. Curtain-holder. No. 1,028,164; June 4; Sp. p. 248; Gaz. vol. 179; p. 30.
Walker, Samuel, Lille, France. Machine for working flax and the like. No. 1,027,512; May 28; Sp. p. 5324; Gaz. vol. 178; p. 933.
Walker, Samuel F., and G. Hunter, Bozeman, Mont. Spring-wheel. No. 1,014,541; Jan. 9; Sp. p. 3170; Gaz. vol. 174; p. 528.
Walker, Sheridan A., New York, and F. Bennett, Ravenswood, assignors to Walker & Bennett Mfg. Co., New York, N. Y. Car-seat. No. 1,044,607; Nov. 19; Gaz. vol. 184; p. 605.
Walker, Thomas A., Evansville, Ind. Locking grease-cup or lubricator. No. 1,033,362; July 23; Gaz. vol. 180; p. 986.
Walker, Thomas C., Morristown, Ohio. Heater attachment for grates and stoves. No. 1,026,007; May 14; Sp. p. 1999; Gaz. vol. 178; p. 344.
Walker, Thomas H., Mullan, Idaho. Current-motor. No. 1,034,940; Aug. 6; Gaz. vol. 181; p. 181.
Walker, Thomas S., Birmingham, England. Ship's-log apparatus. No. 1,019,566; Mar. 5; Sp. p. 1265; Gaz. vol. 176; p. 189.
Walker, Tom H., assignor of one-half to W. E. Craigmiles, Thomasville, Ga. Meat-chopper. No. 1,047,346; Dec. 17; Gaz. vol. 185; p. 610.
Walker-Wells Company, The. (See Wells, George W., assignor.)
Walker, Will, assignor of one-half to W. J. Strayer, Memphis, Tenn. Ladder-bracket. No. 1,045,099; Nov. 19; Gaz. vol. 184; p. 776.
Walker, William, and T. E. Hollings, assignors to Morecambe Motor and Engineering Company Limited, Morecambe, England. Meat-cutter. No. 1,015,859; Jan. 30; Sp. p. 6091; Gaz. vol. 174; p. 1062.
Walker, William G., Westminster, London, England. Dynamometer. No. 1,047,347; Dec. 17; Gaz. vol. 185; p. 610.
Walker, William H., Newton, Mass. Cellulose esters. No. 1,035,108; Aug. 6; Gaz. vol. 181; p. 235.
Walker, William H., Johnstown, Pa. Employment-calendar-card system. No. 1,047,467; Dec. 17; Gaz. vol. 185; p. 651.
Walker, William H., assignor to Merrimac Chemical Company, Boston, Mass. Making formic acid. No. 1,048,609; Dec. 31; Gaz. vol. 185; p. 1107.
Walker, William L., Boston, Mass. Interference-preventer for wireless-telegraph circuits. No. 1,042,855; Oct. 29; Gaz. vol. 183; p. 1208.
Walker, William R., New York, N. Y. Manufacture of steel. No. 1,014,425; Jan. 9; Sp. p. 2969; Gaz. vol. 174; p. 492.
Walker, William R., New York, N. Y. Manufacture of steel. No. 1,035.280; Aug. 13; Gaz. vol. 181; p. 325.
Walker, William R., and J. H. Gray, New York, N. Y. Apparatus for the manufacture of steel. No. 1,018,644; Feb. 27; Sp. p. 5385; Gaz. vol. 175; p. 933.
Walker, Willis F., Alburtis, Pa. Metallic tie. No. 1,016,309; Feb. 6; Sp. p. 165; Gaz. vol. 175; p. 25.
Walkhi Stilt Manufacturing Company, The. (See Bramhall, Louis P., assignor.)
Walkiewicz, Wladislaw, Detroit, Mich. Curtain-pole. No. 1,018,794; Feb. 27; Sp. p. 5696; Gaz. vol. 175; p. 985.
Walkup, Charles W. (See Walkup, John A. and C. W.)
Walkup, John A. and C. W., Waco, Tex. Evaporative cooler. No. 1,030,693; June 25; Sp. p. 5935; Gaz. vol. 179; p. 1014.
Wall, Arthur W., Birmingham, England. Motor-vehicle. No. 1,036,041; Aug. 20; Gaz. vol. 181; p. 622.
Wall, Arthur W., Birmingham, England. Motor attachment for velocipedes. No. 1,044,608; Nov. 19; Gaz. vol. 184; p. 606.
Wall, Charles F., Philadelphia, Pa. Lens-mounting for eyeglasses and spectacles. No. 1,033,845; July 30; Gaz. vol. 180; p. 1170.
Wall, Charles F., and F. Harker, Philadelphia, Pa. Machine for cutting toric-lens grinders. No. 1,033,640; July 23; Gaz. vol. 180; p. 1076.
Wall, Charles L., Lawrence, Kans. Blade-harrow. No. 1,018,281; Feb. 20; Sp. p. 4524; Gaz. vol. 175; p. 778.
Wall, Charles L., Strasburger, Nebr. Churn. No. 1,018,947; Feb. 27; Sp. p. 6007; Gaz. vol. 175; p. 1036.
Wall, Enos A., Salt Lake City, Utah. Endless-belt ore-concentrator. No. 1,033,219; July 23; Gaz. vol. 180; p. 937.
Wall, Enos A., Salt Lake City, Utah. Adjustable gear-wheel. No. 1,040,063; Oct. 1; Gaz. vol. 183; p. 131.
Wall, Enos A., Salt Lake City, Utah. Ore-crusher. No. 1,044,832; Nov. 19; Gaz. vol. 184; p. 684.
Wall, Enos A., Salt Lake City, Utah. Ore-crusher. No. 1,044,833; Nov. 19; Gaz. vol. 184; p. 684.
Wall, John W., assignor of one-third to L. Koch and one-third to L. A. Brown, Bisbee, Ariz. Float-operated valve. No. 1,044,311; Nov. 12; Gaz. vol. 184; p. 472.
Wall, John W., assignor of one-third to L. Koch and one-third to L. A. Brown, Bisbee, Ariz. Float-operated valve. No. 1,047,863; Dec. 17; Gaz. vol. 185; p. 790.
Wall, Patrick. (See Flitcroft, James E., assignor.)
Wallace, Ansel E., Evansville, Ind. Flash-light apparatus for cameras. No. 1,042,856; Oct. 29; Gaz. vol. 183; p. 1209.

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Wallace, Benjamin C., Stockton, Cal. Casket-canopy. No. 1,020,169; Mar. 12; Sp. p. 2481; Gaz. vol. 176; p. 422.
Wallace, Charles, Denver, Colo., assignor to The Wallace-Owings Machinery and Supply Company. Quartz-mill. No. 1,014,273; Jan. 9; Sp. p. 2625; Gaz. vol. 174; p. 438.
Wallace, Edward L., Rochester, N. Y. Rope-buckle. No. 1,029,648; June 18; Sp. p. 3411; Gaz. vol. 179; p. 607.
Wallace, F. T. D., Jr. (See Compton, Joseph B., assignor.)
Wallace, Francis C., Drummond, Md. Puzzle. No. 1,041,535; Oct. 15; Gaz. vol. 183; p. 694.
Wallace, George L., and W. V. Steiger, Bridgeport, Conn., assignors to M. W. Seymour, trustee. Stove-rim-polishing machine. No. 1,042,509; Oct. 29; Gaz. vol. 183; p. 1088.
Wallace, George M., Yuba City, Cal. Wheeled scraper. No. 1,022,804; Apr. 9; Sp. p. 2258; Gaz. vol. 177; p. 386.
Wallace, George W., Santa Cruz, Cal. Game apparatus. No. 1,040,064; Oct. 1; Gaz. vol. 183; p. 131.
Wallace, Hubbe R., East Auburn, Cal. Speed-indicator. No. 1,045,647; Nov. 26; Gaz. vol. 184; p. 998.
Wallace, Jacob, Plymouth, Ohio. Automatic feeder and exerciser. No. 1,048,771; Dec. 31; Gaz. vol. 185; p. 1165.
Wallace, James, St. Louis, Mo. Tree-felling machine. No. 1,039,338; Sept. 24; Gaz. vol. 182; p. 819.
Wallace, James, and H. Clarke, Bolton, assignors to F. W. Wilson, Manchester, England. Device for attaching tips to billiard and like cues. No. 1,034,172; July 30; Gaz. vol. 180; p. 1286.
Wallace, James C., Guelph, Ontario, Canada. Bowling-alley. No. 1,019,104; Mar. 5; Sp. p. 209; Gaz. vol. 176; p. 33.
Wallace, James N., West Didsbury, Manchester, England. Indicator for steam, gas, and other engines. No. 1,030,216; June 18; Sp. p. 4671; Gaz. vol. 179; p. 803.
Wallace, John T., St. Louis, Mo. Rivet and bolt making machine. No. 1,027,017; May 21; Sp. p. 4263; Gaz vol. 178; p. 727.
Wallace, John T., St. Louis, Mo. Feeding mechanism No. 1,027,018; May 21; Sp. p. 4271; Gaz. vol. 178; p 727.
Wallace, Joseph D., Champaign, Ill. Liquid-pressure regulator. No. 1,025,222; May 7; Sp. p. 247; Gaz. vol. 178; p. 41.
Wallace-Owings Machinery and Supply Company, The. (See Wallace, Charles, assignor.)
Wallace, Robert H. (See Hutchinson and Wallace.)
Wallace, Robert H., New Brighton, Pa. Dirigible lamp for automobiles. No. 1,016,722; Feb. 6; Sp. p. 1103; Gaz. vol. 175; p. 170.
Wallace, William, *et al.* (See Craigie, William, assignor.)
Wallace, William, Milton, Mass. Internal-combustion engine. No. 1,048,610; Dec. 31; Gaz. vol. 185; p. 1107.
Wallace, William R., Houghton, Mich. Rock-core drill. No. 1,019,206; Mar. 5; Sp. p. 439; Gaz. vol. 176; p. 70.
Wallace, William S., San Antonio, assignor of one-half to C. O. Daliet, Austin, Tex. Fly-trap. No. 1,017,027; Feb. 13; Sp. p. 1766; Gaz. vol. 175; p. 308.
Wallace, William W., Willoughby, Ohio, assignor to R. C. Penfield, New York, N. Y. Brick-loading apparatus. No. 1,034,941; Aug. 6; Gaz. vol. 181; p. 181.
Wallace, William W., assignor to R. C. Penfield, Chicago, Ill. Plural-belt conveyer. No. 1,044,428; Nov. 12; Gaz. vol. 184; p. 512.
Wallach Brothers Limited. (See Greatorex, William H., assignor.)
Walland, Heinrich, Brünn, assignor to Erste Triester Reisschael-Fabriks-Actien-Gesellschaft, Trieste, Austria-Hungary. Rendering vegetable proteins soluble. No. 1,016,115; Jan. 30; Sp. p. 6638; Gaz. vol. 174; p. 1154.
Wallbaum, Reinhold, Charlottenburg, Germany. Hydrocarbon emulsion. No. 1,014,103; Jan. 9; Sp. p. 2270; Gaz. vol. 174; p. 378.
Wallbillich, Anthony F., assignor to The Perkins Electric Switch Manufacturing Company, Bridgeport, Conn. Electric switch. No. 1,038,995; Sept. 17; Gaz. vol. 182; p. 685.
Wallem, Axel B., Cynwyd, assignor to Harrison Safety Boiler Works, Philadelphia, Pa. Valve. No. 1,016,050; Jan. 30; Sp. p. 6501; Gaz. vol. 174; p. 1131.
Wallem, Axel B., Cynwyd, assignor to Harrison Safety Boiler Works, Philadelphia, Pa. Valve. No. 1,024,236; Apr. 23; Sp. p. 5325; Gaz. vol. 177; p. 933.
Wallem, Axel B., Cynwyd, assignor to Harrison Safety Boiler Works, Philadelphia, Pa. Combined steam-engine and heater. No. 1,042,729; Oct. 29; Gaz. vol. 183; p. 1165.
Wallen, Carl J., Cleveland, Ohio. Window construction. No. 1,022,901; Apr. 9; Sp. p. 2441; Gaz. vol. 177; p. 417.
Waller, C. H., *et al.* (See Kilpatrick, Robert L., assignor.)
Waller, Carl R., Trenton, N. J., assignor to De Laval Steam Turbine Company, New York, N. Y. Elastic-fluid turbine. No. 1,016,532; Feb. 6; Sp. p. 695; Gaz. vol. 175; p. 103.
Waller, Carl R., Trenton, N. J., assignor to De Laval Steam Turbine Company, New York, N. Y. Elastic-fluid turbine. No. 1,016,660; Feb. 6; Sp. p. 981; Gaz. vol. 175; p. 148.
Waller, Frederick, Jr., Lynbrook, N. Y. Automatic timer. No. 1,025,726; May 7; Sp. p. 1371; Gaz. vol. 178; p. 213.
Waller, Perry J., Los Angeles, Cal. Shaft-hanger. No. 1,020,629; Mar. 19; Sp. p. 3458; Gaz. vol. 176; p. 611.
Waller, Robert H. (See Seat, Woodford O., assignor.)
Waller, Thomas D., Memphis, Tenn. Fire-hose crossing for railways. No. 1,022,988; Apr. 9; Sp. p. 2634; Gaz. vol. 177; p. 449.
Wallerstein, Louis. (See Royce and Wallerstein.)
Wallgren, Ernst H. (See Öhrström and Wallgren.)
Wallick, Ben S., Springfield, Ill. Apparatus for displaying and vending postal cards. No. 1,013,976; Jan. 9; Sp. p. 1985; Gaz. vol. 174; p. 336.
Wallick, Ben S., Springfield, Ill. Card-vending machine. No. 1,017,830; Feb. 20; Sp. p. 3529; Gaz. vol. 175; p. 620.
Wallin, Gustav, Chicago, Ill. Motor. No. 1,049,181; Dec. 31; Gaz. vol. 185; p. 1304.
Wallis, James, assignor of one-half to J. & T. H. Wallis, Limited, Beddington, England. Treatment of germ of wheat. No. 1,021,119; Mar. 26; Sp. p. 4476; Gaz. vol. 176; p. 827.
Wallis, John P. (See Bryant, Clyde J., assignor.)
Wallis, John W., Cuero, Tex. Road-scraper. No. 1,048,243; Dec. 24; Gaz. vol. 185; p. 943.
Wallis, Philip R., Elizabethville, Pa. Miter-box. No. 1,026,535; May 14; Sp. p. 3174; Gaz. vol. 178; p. 525.
Wallman, Otto, Portland, Oreg. Paring-knife. No. 1,034,542; Aug. 6; Gaz. vol. 181; p. 47.
Wallmann Electric Heater Company. (See Wallmann, Johann G., assignor.)
Wallmann, Henning F., Chicago, Ill. Friction-coupling. No. 1,045,480; Nov. 26; Gaz. vol. 184; p. 938.
Wallmann, Henning F., Chicago, Ill. Gas-generating apparatus. No. 1,047,348; Dec. 17; Gaz. vol. 185; p. 610.
Wallmann, Johann G., Oakland, assignor, by mesne assignments, to Wallmann Electric Heater Company, San Francisco, Cal. Electric steam-heating apparatus. No. 1,023,602; Apr. 16; Sp. p. 3934; Gaz. vol. 177; p. 691.
Wallower, F. C. (See Nealy, George, assignor.)
Walls, Alexander G., assignor to Walter McGee & Son, Limited, Paisley, Scotland. Automatic spooling-machine. No. 1,017,718; Feb. 20; Sp. p. 3239; Gaz. vol. 175; p. 581.
Walls, Aura R., Gypsy, W. Va. High and low water alarm apparatus. No. 1,027,299; May 21; Sp. p. 4892; Gaz. vol. 178; p. 823.
Wallwork, Samuel, Summerville, Pa. Dumping-car. No. 1,013,341; Jan. 2; Sp. p. 556; Gaz. vol. 174; p. 89.
Walmsley, William, Lowell, assignor to Draper Company, Hopedale, Mass. Bobbin-stripper. No. 1,028,408; June 4; Sp. p. 760; Gaz. vol. 179; p. 115.
Walpole Shoe Supply Company. (See Chamberlin, Benjamin F., Jr., assignor.)
Walpuski, Theodore G., and C. Hueffner, assignors to The American Morocco Case Co., New York, N. Y. Catch for jewelry and other boxes. No. 1,035,666; Aug. 13; Gaz. vol. 181; p. 458.
Walquist, Andrew N., Seattle, Wash. Tailor's measure. No. 1,014,542; Jan. 9; Sp. p. 3172; Gaz. vol. 174; p. 528.
Walquist, Frank W., assignor to E. Zahm, Buffalo, N. Y. Observation device. No. 1,042,730; Oct. 29; Gaz. vol. 183; p. 1165.
Walrath, Edward, La Fargeville, N. Y. Adjustable horse-collar. No. 1,040,820; Oct. 8; Gaz. vol. 183; p. 421.
Walraven, Francis W., Las Cascadas, Canal Zone. Automatic drain-valve for steam-cylinders. No. 1,020,861; Mar. 19; Sp. p. 3963; Gaz. vol. 176; p. 690.
Walrow, Hans T., New York, N. Y. Folding cross. No. 1,032,257; July 9; Gaz. vol. 180; p. 527.
Walscheid, J. Emil. (See Farkas, Karl, assignor.)
Walser, Joseph J., assignor to The Goss Printing Press Company, Chicago, Ill. Starting mechanism for electric motors. No. 1,016,460; Feb. 6; Sp. p. 512; Gaz. vol. 175; p. 79.
Walser, Robert, New York, N. Y. Embroidery-printing machine. No. 1,018,948; Feb. 27; Sp. p. 6009; Gaz. vol. 175; p. 1036.
Walsh, Arthur Q., New York, N. Y. Cigarette-case. No. 1,014,543; Jan. 9; Sp. p. 3173; Gaz. vol. 174; p. 529.
Walsh, Arthur Q., New York, N. Y. Combined cigarette-box and match-holder. No. 1,023,054; Apr. 9; Sp. p. 2772; Gaz. vol. 177; p. 472.
Walsh, Catherine V. W. (See Byrne, Patrick J., assignor.)
Walsh, Dennis T., Ansonia, Conn. Back-up brake for vehicles. No. 1,021,854; Apr. 2; Sp. p. 220; Gaz. vol. 177; p. 36.
Walsh, Edward J., and W. Vargo, East Pittsburgh, Pa. Non-explosive oil-can. No. 1,029,329; June 11; Sp. p. 2736; Gaz. vol. 179; p. 462.
Walsh, Frank A., assignor of one-half to J. E. Votaw, Marshall, Tex. Locomotive driving-box. No. 1,024,918; Apr. 30; Sp. p. 6842; Gaz. vol. 177; p. 1202.
Walsh, Harriet M., Sandy Hook, Conn., assignor to Emil Weissbrod & Sons, Incorporated, Greenfield, Mass. Combination pocket-book. No. 1,014,104; Jan. 9; Sp. p. 2272; Gaz. vol. 174; p. 378.

Alphabetical list of patentees—Continued.

Walsh, Harry C. H., Chicago, Ill., assignor of one-half to V. P. Wilkins, Laporte, Ind. Safety device for die-presses and analogous machines. No. 1,047,349; Dec. 17; Gaz. vol. 185; p. 611.
Walsh, James, Northfield, assignor to J. H. Daunt, Minneapolis, and J. A. Walsh, Northfield, Minn. Flying-machine. No. 1,025,891; May 7; Sp. p. 1753; Gaz. vol. 178; p. 270.
Walsh, James, and R. D. Kay, London, England. Infant-pacifier. No. 1,023,693; Apr. 16; Sp. p. 4092; Gaz. vol. 177; p. 718.
Walsh, James D., St. Louis, Mo. Aeroplane-roundabout. No. 1,023,897; Apr. 23; Sp. p. 4560; Gaz. vol. 177; p. 813.
Walsh, John A., *et al.* (See Walsh, James, assignor.)
Walsh, John J. (See Donegan and Walsh.)
Walsh, Michael E., Hinsdale, Mass. Alarm mechanism for carding and other textile machines. No. 1,043,486; Nov. 5; Gaz. vol. 184; p. 159.
Walsh, Richard E. (See Dow and Walsh.)
Walsh, Thomas H., West Wareham, Mass. Locking device for picker-machines. No. 1,044,834; Nov. 19; Gaz. vol. 184; p. 684.
Walsh, William F., Glenolden, Pa. Antislipping attachment for horseshoes. No. 1,032,716; July 16; Gaz. vol. 180; p. 730.
Walsh, William J., Hamilton, Ontario, Canada. Open-book rest. No. 1,017,120; Feb. 13; Sp. p. 1986; Gaz. vol. 175; p. 341.
Walsh, William J., Hamilton, Ontario, Canada. Open-book rest. No. 1,017,121; Feb. 13; Sp. p. 1988; Gaz. vol. 175; p. 342.
Walshe, Denny E., Grand Saline, Tex. Rotary hand-stamp. No. 1,020,527; Mar. 19; Sp. p. 3222; Gaz. vol. 176; p. 577.
Walski, Martin, *et al.* (See Willma, Theodor, assignor.)
Walston, John T., Springfield, Mo. Swing attachment. No. 1,020,335; Mar. 12; Sp. p. 2802; Gaz. vol. 176; p. 475.
Walstrom, Axel M., Minneapolis, Minn. Starting-crank for hydrocarbon-engines. No. 1,034,543; Aug. 6; Gaz. vol. 181; p. 47.
Walter, Alfred, Straupitz, Germany. Elastic pedal-crank for cycles. No. 1,021,957; Apr. 2; Sp. p. 443; Gaz. vol. 177; p. 71.
Walter, Alfred R., Ealing, London, England. Pince-nez. No. 1,020,585; Mar. 19; Sp. p. 3359; Gaz. vol. 176; p. 597.
Walter, Anton W., Canton, Ohio. Metal frame. No. 1,032,036; July 9; Gaz. vol. 180; p. 452.
Walter, Bruce, Pittsburgh, Pa. Regulating-concentrator. No. 1,019,935; Mar. 12; Sp. p. 1991; Gaz. vol. 176; p. 344.
Walter, Bruce, Pittsburgh, Pa., assignor to J. Gayley, New York, N. Y. Air-drying apparatus for metallurgical purposes. No. 1,035,281; Aug. 13; Gaz. vol. 181; p. 325.
Walter, David C., assignor of one-half to A. Hall, Toledo, Ohio. Pneumatic carpet-sweeper. No. 1,014,027; Jan. 9; Sp. p. 2100; Gaz. vol. 174; p. 353.
Walter, Edward C., New York, N. Y., assignor to H. T. Ambrose, Orange, N. J. Calculator. No. 1,013,243; Jan. 2; Sp. p. 334; Gaz. vol. 174; p. 53.
Walter, Edwin G. (See Colley and Walter.)
Walter, Harrison B., assignor to National Fibre Box Company, Danville, Ill. Collapsible suit and hat box. No. 1,025,037; Apr. 30; Sp. p. 7068; Gaz. vol. 177; p. 1242.
Walter, Harrison B., assignor to National Fibre Box Company, Danville, Ill. Fastening the ends of the binding strip or band which passes around a box. No. 1,026,417; May 14; Sp. p. 2937; Gaz. vol. 178; p. 486.
Walter, Harrison B., assignor to National Fibre Box Company, Danville, Ill. Knockdown box. No. 1,045,648; Nov. 26; Gaz. vol. 184; p. 999.
Walter, Hugo J. (See Ralston and Briggs, assignors.)
Walter, Joseph R., Brooklyn, N. Y. Boat propulsion. No. 1,022,989; Apr. 9; Sp. p. 2635; Gaz. vol. 177; p. 449.
Walter, Lewis C. (See Gilmore, Charles B., assignor.)
Walter McGee & Son. (See Walls, Alexander G., assignor.)
Walter, Otto, De Kalb, Ill. Roofing-tile machine. No. 1,022,282; Apr. 2; Sp. p. 1115; Gaz. vol. 177; p. 178.
Walter, Torsten L., New York, N. Y. Shade-fixture. No. 1,019,863; Mar. 12; Sp. p. 1829; Gaz. vol. 176; p. 320.
Walter, Torsten L., Elmhurst, N. Y. Shade-fixture. No. 1,023,345; Apr. 16; Sp. p. 3413; Gaz. vol. 177; p. 609.
Walters, Alexander L., assignor of one-half to F. B. Grimshaw, Los Angeles, Cal. Shock-absorber for motorcycles and the like. No. 1,042,060; Oct. 22; Gaz. vol. 183; p. 908.
Walters, Earl. (See Hooks, William L., assignor.)
Walters, Edward. (See Falke and Walters.)
Walters, Francis S., Wilkinsburg, Pa., assignor to National Tool Company, Cleveland, Ohio. Interchangeable counterbore. No. 1,016,116; Jan. 30; Sp. p. 6639; Gaz. vol. 174; p. 1154.
Walters, Francis S., Wilkinsburg, assignor, by mesne assignments, to Westinghouse Electric and Manufacturing Company, East Pittsburgh, Pa. Rotary cutting-tool. No. 1,031,828; July 9; Gaz. vol. 180; p. 383.
Walters, Frank, Philadelphia, Pa., assignor, by mesne assignments, to James Leckie & Son Company, Camden, N. J. Knitting-machine. No. 1,018,144; Feb. 20; Sp. p. 4257; Gaz. vol. 175; p. 731.
Walters, Frank D. F., Humboldt, Kans., and G. W. Latimer, Independence, Mo. Oil-burner. No. 1,036,758; Aug. 27; Gaz. vol. 181; p. 902.
Walters, George W., Wildwood, Pa. Animal-trap. No. 1,038,246; Sept. 10; Gaz. vol. 182; p. 391.
Walters, Gustave, Chicago, Ill., assignor of one-third to J. W. Galvin, San Francisco, Cal., and one-third to A. Weismann, Chicago, Ill. Hat-carton. No. 1,029,960; June 18; Sp. p. 4136; Gaz. vol. 179; p. 716.
Walters, Harry, *et al.* (See Carnochan, John W., assignor.)
Walters, Harry. (See West, Roland W., assignor.)
Walters, Harry D. (See O'Connor, James F., assignor.)
Walters, Herman J., Hamilton, Mont. Fire-escape. No. 1,016,859; Feb. 6; Sp. p. 1383; Gaz. vol. 175; p. 214.
Walters, Joseph, Richmond, Va. Garment-hanger. No. 1,015,918; Jan. 30; Sp. p. 6217; Gaz. vol. 174; p. 1084.
Walters, William, Glendale, Wash. Wedge. No. 1,032,316; July 9; Gaz. vol. 180; p. 548.
Walters, William H., Broad Haven, England. Apparatus for teaching the art of aeroplaning, applicable also for amusement purposes. No. 1,018,645; Feb. 27; Sp. p. 5388; Gaz. vol. 175; p. 933.
Walthall, John, and O. C. Carter, North Fort Worth, Tex. Cotton-chopping attachment for cultivators. No. 1,020,862; Mar. 19; Sp. p. 3965; Gaz. vol. 176; p. 691.
Waltham Watch Company. (See Ohlson, Olof, assignor.)
Walther, Adolph F., Oakland, Cal. Tunneling-machine. No. 1,026,335; May 14; Sp. p. 2750; Gaz. vol. 178; p. 459.
Walther, Adolph F., Oakland, Cal. Clutch. No. 1,038,033; Sept. 10; Gaz. vol. 182; p. 321.
Walther, Adolph F., Oakland, Cal. Scaffold. No. 1,044,955; Nov. 19; Gaz. vol. 184; p. 726.
Walther, Carl, Chemnitz, Germany. Speed-retarding device for thread-guide bars. No. 1,023,694; Apr. 16; Sp. p. 4093; Gaz. vol. 177; p. 718.
Walther, Carl, Chemnitz, Germany. Driving mechanism for thread-guide bars. No. 1,023,695; Apr. 16; Sp. p. 4094; Gaz. vol. 177; p. 718.
Walther, Frank T., Scribner, Nebr. Cart. No. 1,046,352; Dec. 3; Gaz. vol. 185; p. 192.
Walther, George, Rockville Center, N. Y. Finger-nail cleaner. No. 1,015,860; Jan. 30; Sp. p. 6092; Gaz. vol. 174; p. 1062.
Walther, Gustav. (See Salzer and Walther.)
Walther, Herman, Davenport, Iowa. Carbureter. No. 1,042,731; Oct. 29; Gaz. vol. 183; p. 1165.
Walther, Paul, New York, N. Y. Clothes-drier attachment for boilers. No. 1,045,481; Nov. 26; Gaz. vol. 184; p. 939.
Walther, Rudolph J., Davenport, Iowa. Gas-mixer. No. 1,026,135; May 14; Sp. p. 2308; Gaz. vol. 178; p. 390.
Walther, Rudolph J., assignor to Walther-Vogler Gas Machine Company, Davenport, Iowa. Mechanical motor for gas-machines. (Reissue.) No. 13,445; July 16; Gaz. vol. 180; p. 852.
Walther, Theodore A. (See Weiss and Walther.)
Walther-Vogler Gas Machine Company. (See Walther, Rudolph J., assignor.) (Reissue.)
Walton, Edgar M., Kansas City, Mo. Shingle-mold. No. 1,020,586; Mar. 19; Sp. p. 3360; Gaz. vol. 176; p. 597.
Walton, Harry H., and A. H. Yingst, Harrisburg, Pa. Rail-joint. No. 1,025,599; May 7; Sp. p. 1104; Gaz. vol. 178; p. 171.
Walton, Jay W., Denison, Tex., and W. H. Dayton, St. Louis, Mo. Tie-plate. No. 1,032,520; July 16; Gaz. vol. 180; p. 661.
Walton, Jerrold F., Sturgis, Mich. Adjustable chair. No. 1,018,460; Feb. 27; Sp. p. 4925; Gaz. vol. 175; p. 870.
Walton, Jerrold F., Sturgis, Mich. Adjustable chair. No. 1,046,693; Dec. 10; Gaz. vol. 185; p. 352.
Walton, Jerrold F., and W. T. Favorite, Sturgis, Mich.; said Favorite assignor to said Walton. Adjustable chair. No. 1,037,565; Sept. 3; Gaz. vol. 182; p. 131.
Walton, John, Erie, Pa. Locomotive-truck. No. 1,025,600; May 7; Sp. p. 1106; Gaz. vol. 178; p. 171.
Walton, Samuel E., Mountainair, N. Mex. Crutch. No. 1,035,760; Aug. 13; Gaz. vol. 181; p. 489.
Walton, Samuel T., Brooklyn, N. Y., assignor to S. & F. Metals Company. Skirt-length-measuring gage. No. 1,030,951; July 2; Gaz. vol. 180; p. 34.
Walton, T. L. (See Lobenstein, Mack L., assignor.)
Walton, William G., Ferriday, La. Extension car-step. No. 1,014,544; Jan. 9; Sp. p. 3174; Gaz. vol. 174; p. 529.
Waltz, William E., assignor to H. La Plant, Des Moines, Iowa. Acetylene-gas generator. No. 1,036,042; Aug. 20; Gaz. vol. 181; p. 622.
Walz, John, Burlington, Iowa. Display-rack. No. 1,019,384; Mar. 5; Sp. p. 889; Gaz. vol. 176; p. 131.
Wambaugh, William J., Morgantown, W. Va. Producing lamp-chimneys. No. 1,042,857; Oct. 29; Gaz. vol. 183; p. 1209.
Wanamaker, Charles B., assignor to Leedy Manufacturing Company, Indianapolis, Ind. Drum-heater. No. 1,020,378; Mar. 12; Sp. p. 2889; Gaz. vol. 176; p. 489.

Alphabetical list of patentees—Continued.

Wanamaker, Charles B., assignor to Leedy Manufacturing Company, Indianapolis, Ind. Drum. No. 1,031,032; July 2; Gaz. vol. 180; p. 64.
Wanamaker, John. (See Schwamb, Warren C., assignor.)
Wanamaker, Seth, Ramsey, N. J. Device for facilitating the removal of valves. No. 1,037,691; Sept. 3; Gaz. vol. 182; p. 173.
Wandel, David. (See Casserleigh, John H., assignor.)
Wandel, Otto, Walpole, Mass., assignor to Wandel Screen Manufacturing Company. Pulp-screening machine. No. 1,036,389; Aug. 20; Gaz. vol. 181; p. 746.
Wandel, Otto, Walpole, Mass., assignor to Wandel Screen Manufacturing Company. Pulp-screening machine. No. 1,036,390; Aug. 20; Gaz. vol. 181; p. 746.
Wandel Screen Manufacturing Company. (See Wandel, Otto, assignor.)
Wanderer Werke vorm. Winklhofer & Jaenike A. G. (See Buschmann, Theodor E., assignor.)
Wanee, George M., Oakland, Cal. Gun-holder. No. 1,046,912; Dec. 10; Gaz. vol. 185; p. 427.
Wangelin, Friedrich G., Dresden, Germany. Float-valve. No. 1,032,521; July 16; Gaz. vol. 180; p. 661.
Waniger, Julius T., St. Louis, Mo. Alarm attachment for drip-pans. No. 1,041,385; Oct. 15; Gaz. vol. 183; p. 644.
Wankmüller, Romeo, assignor to Luft-Verkehrs-Gesellschaft m. b. H., Berlin, Germany. Means for signaling from airships and the like. No. 1,013,342; Jan. 2; Sp. p. 558; Gaz. vol. 174; p. 89.
Wann, William A. (See Swett, William H., assignor.)
Wanner, Albert, Jr., Hoboken, N. J. Chair. (Reissue.) No. 13,396; Apr. 2; Sp. p. 1338; Gaz. vol. 177; p. 218.
Wanner, Edwin P., New York, N. Y. Manufacturing chair-seats. No. 1,017,190; Feb. 13; Sp. p. 2136; Gaz. vol. 175; p. 366.
Wantling Mfg. Co. (See Doubet, Sylvester, assignor.)
Wappler Electric Manufacturing Company. (See Fayer, Charles F., assignor.)
Wappler, Reinhold H., assignor to American Cystoscope Makers, Inc., New York, N. Y. Cystoscope. No. 1,021,809; Apr. 2; Sp. p. 110; Gaz. vol. 177; p. 22.
Wappler, Reinhold H., and R. Jung, assignors to American Cystoscope Makers, Inc., New York, N. Y. Cystoscope. No. 1,021,810; Apr. 2; Sp. p. 112; Gaz. vol. 177; p. 22.
Warburton, John, assignor to Benjamin Eastwood Company, Paterson, N. J. Beaming-machine. No. 1,017,191; Feb. 13; Sp. p. 2137; Gaz. vol. 175; p. 366.
Warburton, John, assignor to Benjamin Eastwood Company, Paterson, N. J. Warping-machine. No. 1,033,363; July 23; Gaz. vol. 180; p. 986.
Ward, Abraham D., Palisade, Colo. Orchard-heater. No. 1,016,907; Feb. 6; Sp. p. 1494; Gaz. vol. 175; p. 231.
Ward, Albert P., and I. S. Russell, Springfield, Mass. Gumming-machine. No. 1,042,298; Oct. 22; Gaz. vol. 183; p. 986.
Ward, Bertrand G., Jersey City, N. J. Game device. No. 1,047,468; Dec. 17; Gaz. vol. 185; p. 651.
Ward, Charles, Charleston, W. Va. Water-tube boiler. No. 1,020,234; Mar. 12; Sp. p. 2625; Gaz. vol. 176; p. 445.
Ward, Charles and C. E., Charleston, W. Va. Stay for boiler-plates. No. 1,020,235; Mar. 12; Sp. p. 2626; Gaz. vol. 176; p. 445.
Ward, Charles E. (See Ward, Charles and C. E.)
Ward, Daniel O., Oak Park, Ill. Locking-nut. No. 1,041,920; Oct. 22; Gaz. vol. 183; p. 862.
Ward, Edmund R. (See Jenkins and Ward.)
Ward, Edward E. (See Buddle, George T., assignor.)
Ward, Frank D., New York, N. Y., assignor to American Car and Foundry Company, St. Louis, Mo. Wheel-making machine. No. 1,045,482; Nov. 26; Gaz. vol. 184; p. 939.
Ward, Frank F., Schoolcraft, Mich. Umbrella-rack. No. 1,022,449; Apr. 9; Sp. p. 1473; Gaz. vol. 177; p. 264.
Ward, Frank W., South Framingham, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Boot and shoe making. No. 1,030,952; July 2; Gaz. vol. 180; p. 35.
Ward, Frederick G., assignor of one-third to H. Davis, Pittsburgh, Pa. Tread for pneumatic tires. No. 1,021,171; Mar. 26; Sp. p. 4602; Gaz. vol. 176; p. 844.
Ward, Frederick H., Brooklyn, N. Y. Electric-box connection. No. 1,042,510; Oct. 29; Gaz. vol. 183; p. 1088.
Ward, George C., St. Louis, Mo. Cut-out for mufflers. No. 1,037,378; Sept. 3; Gaz. vol. 182; p. 68.
Ward, James D., Grange over Sands, England. Book and like index. No. 1,015,658; Jan. 23; Sp. p. 5663; Gaz. vol. 174; p. 968.
Ward, John A., Pittsburgh, Pa. Shield for windows of railway-cars. No. 1,021,646; Mar. 26; Sp. p. 5602; Gaz. vol. 176; p. 1007.
Ward, John H. (See Gross, Herschel W., assignor.)
Ward, John H., Paterson, N. J. Shade. No. 1,017,934; Feb. 20; Sp. p. 3791; Gaz. vol. 175; p. 658.
Ward, Julius A., New York, N. Y. Means for mechanically massaging the human body. No. 1,026,480; May 14; Sp. p. 3070; Gaz. vol. 178; p. 506.
Ward, Julius A., New York, N. Y. Undulator. No. 1,026,481; May 14; Sp. p. 3072; Gaz. vol. 178; p. 506.
Ward, Leonard G., Demopolis, Ala. Grave-filler. No. 1,041,921; Oct. 22; Gaz. vol. 183; p. 862.
Ward, Lewis A., Tonawanda, N. Y. Excavating-machine. No. 1,048,244; Dec. 24; Gaz. vol. 185; p. 943.
Ward, Mattie R., Leesville, La. Folding umbrella. No. 1,020,236; Mar. 12; Sp. p. 2628; Gaz. vol. 176; p. 445.
Ward, Michael J., Youngstown, Ohio. Sheet-feeding apparatus. No. 1,031,600; July 2; Gaz. vol. 180; p. 260.
Ward Pump Company. (See Johnson, Oscar W., assignor.)
Ward, Volney H., Batesville, Miss. Syringe. No. 1,019,207; Mar. 5; Sp. p. 442; Gaz. vol. 176; p. 70.
Ward, Warren W., New York, N. Y. Quickly-detachable hinged clincher-ring. No. 1,025,345; May 7; Sp. p. 528; Gaz. vol. 178; p. 83.
Ward, William L., Port Chester, N. Y. Means instrumental in making nut-blanks. No. 1,045,483; Nov. 26; Gaz. vol. 184; p. 939.
Wardell, Henry R., New York, N. Y. Bituminous structural material. No. 1,015,919; Jan. 30; Sp. p. 6218; Gaz. vol. 174; p. 1084.
Wardell, Henry R., New York, N. Y., assignor to H. W. Johns-Manville Company. Roofing-cleat. No. 1,017,611; Feb. 13; Sp. p. 3006; Gaz. vol. 175; p. 508.
Warden, William F., assignor to P. E. Tanner, Akron, Ohio. Gage-inspecting device. No. 1,015,223; Jan. 16; Sp. p. 4684; Gaz. vol. 174; p. 791.
Warden, William F., assignor to P. E. Tanner, Akron, Ohio. Tank-gage. No. 1,020,785; Mar. 19; Sp. p. 3791; Gaz. vol. 176; p. 664.
Warder, Walter J., Jr. (See Roth and Warder.)
Warder, Walter J., Jr., Chicago, Ill., assignor to The Adams & Westlake Company. Electric signal-lamp. No. 1,037,566; Sept. 3; Gaz. vol. 182; p. 132.
Wardwell, Daniel W., Rome, N. Y. Soap-holder for shaving-cups. No. 1,045,649; Nov. 26; Gaz. vol. 184; p. 999.
Wardwell, Simon W., Providence, R. I. Stitch-forming device. No. 1,019,208; Mar. 5; Sp. p. 443; Gaz. vol. 176; p. 71.
Wardwell, Simon W., Providence, R. I. Braiding-machine carrier. No. 1,025,172; May 7; Sp. p. 138; Gaz. vol. 178; p. 24.
Wardwell, Simon W., Providence, R. I. Braiding-machine. No. 1,032,870; July 16; Gaz. vol. 180; p. 780.
Wardwell, Simon W., Providence, R. I. Lacing. No. 1,045,919; Dec. 3; Gaz. vol. 185; p. 43.
Wardwell, Simon W., Providence, R. I., assignor to Universal Winding Company, Portland, Me. Creel. No. 1,022,283; Apr. 2; Sp. p. 1117; Gaz. vol. 177; p. 178.
Ware, Alfred J., Seattle, Wash. Printing-machine. No. 1,014,986; Jan. 16; Sp. p. 4232; Gaz. vol. 174; p. 712.
Ware Grain Binder Attachment Co. (See Ware, Joseph L., assignor.)
Ware, Henry, Springville, N. Y. Railway-tie surfacer and tie-plate gage. No. 1,019,936; Mar. 12; Sp. p. 1993; Gaz. vol. 176; p. 345.
Ware, Joseph L., St. Paul, assignor to Ware Grain Binder Attachment Co., Minneapolis, Minn. Binder-head for harvesters. No. 1,039,853; Oct. 1; Gaz. vol. 183; p. 62.
Ware Machine & Loom Company. (See Côté, Henry, assignor.)
Ware Machine & Loom Company. (See Côté and Snow, assignors.)
Ware, Rodney B., Thompsonville, Conn. Machine for handling coins. No. 1,022,902; Apr. 9; Sp. p. 2442; Gaz. vol. 177; p. 418.
Ware, Thomas C., Tishomingo, Okla. Hinge structure for seal-holders and the like. No. 1,040,821; Oct. 8; Gaz. vol. 183; p. 421.
Warfield, Henry, North Topeka, Kans. Horse-releaser. No. 1,047,350; Dec. 17; Gaz. vol. 185; p. 612.
Warg, Robert, Milwaukee, Wis. Centrifugal fan. No. 1,019,385; Mar. 5; Sp. p. 890; Gaz. vol. 176; p. 131.
Waring, George H., *et al.* (See Lister, Nicholas E., assignor.)
Waring, Walter R., Waverly, Kans. Loading-machine. No. 1,039,339; Sept. 24; Gaz. vol. 182; p. 819.
Warlick, Charles W., Martinsburg, Pa. Bed-rest. No. 1,019,864; Mar. 12; Sp. p. 1831; Gaz. vol. 176; p. 321.
Warman, Andrew B. (See Pittack and Warman.)
Warman, William A., New York, assignor to Keller Mechanical Engraving Company, Brooklyn, N. Y. Engraving-machine. No. 1,013,343; Jan. 2; Sp. p. 559; Gaz. vol. 174; p. 90.
Warne, Cicero J., Auburn, N. Y. Coin-mailing card. No. 1,029,836; June 18; Sp. p. 3842; Gaz. vol. 179; p. 674.
Warne, Frederick C., assignor to Roderick Lean Manufacturing Company, Mansfield, Ohio. Cultivator. No. 1,017,353; Feb. 13; Sp. p. 2483; Gaz. vol. 175; p. 421.
Warne, Frederick C., assignor to The Roderick Lean Manufacturing Company, Mansfield, Ohio. Safety attachment for agricultural implements or the like. No. 1,018,461; Feb. 27; Sp. p. 4927; Gaz. vol. 175; p. 871.
Warne, Frederick C., assignor to The Roderick Lean Manufacturing Company, Mansfield, Ohio. Truck mechanism. No. 1,021,563; Mar. 26; Sp. p. 5447; Gaz. vol. 176; p. 981.
Warne, Frederick C., assignor to The Roderick Lean Manufacturing Company, Mansfield, Ohio. Cultivator. No. 1,036,940; Aug. 27; Gaz. vol. 181; p. 962.
Warner, Adam D., Los Angeles, Cal. Food compound. No. 1,018,462; Feb. 27; Sp. p. 4928; Gaz. vol. 175; p. 871.

Alphabetical list of patentees—Continued.

Warner, Albion L. (See Warner, Charles A., assignor.)
Warner, Alonzo A., assignor to Landers, Frary & Clark, New Britain, Conn. Roller-retaining device. No. 1,014,680; Jan. 16; Sp. p. 3556; Gaz. vol. 174; p. 608.
Warner, Alonzo A., assignor to Landers, Frary & Clark, New Britain, Conn. Bracket. No. 1,016,908; Feb. 6; Sp. p. 1495; Gaz. vol. 175; p. 231.
Warner, Alonzo A., assignor to Landers, Frary & Clark, New Britain, Conn. Electrically-heated utensil. No. 1,040,595; Oct. 8; Gaz. vol. 183; p. 344.
Warner, Alonzo A., Hartford, assignor to Landers, Frary & Clark, New Britain, Conn. Electrically-heated utensil. No. 1,043,487; Nov. 5; Gaz. vol. 184; p. 159.
Warner, Arthur P., and A. B. Cadman, assignors to Warner Instrument Company, Beloit, Wis. Speed-measuring equipment for railway or other cars. No. 1,038,509; Sept. 10; Gaz. vol. 182; p. 483.
Warner Brothers Co. (See Warner, De Ver H., assignor.)
Warner Brothers Company, The. (See Graham, William S., assignor.)
Warner, Charles A., assignor to A. L. Warner, New York, N. Y. Sofa or chair bedstead. No. 1,038,693; Sept. 17; Gaz. vol. 182; p. 581.
Warner, De Ver H., assignor to The Warner Brothers Company, Bridgeport, Conn. Corset. No. 1,019,865; Mar. 12; Sp. p. 1833; Gaz. vol. 176; p. 321.
Warner, De Ver H., assignor to Warner Brothers Co., Bridgeport, Conn. Buckle. No. 1,041,386; Oct. 15; Gaz. vol. 183; p. 645.
Warner, Frank E., assignor to Scovill Manufacturing Company, Waterbury, Conn. Bachelor-button. No. 1,040,065; Oct. 1; Gaz. vol. 183; p. 131.
Warner, Frank O., Baltimore, Md. Clock mechanism for signals. No. 1,026,008; May 14; Sp. p. 2000; Gaz. vol. 178; p. 345.
Warner, Frederick. (See Harrison, George W., assignor.)
Warner Gear Company. (See Davis, Charles E., assignor.)
Warner Gear Company. (See Jones, Frank H., assignor.)
Warner, George W., Topeka, Kans. Corrugated culvert. No. 1,020,002; Mar. 12; Sp. p. 2127; Gaz. vol. 176; p. 366.
Warner, Gilbert W., Kenmore, Ohio. Rail-joint. No. 1,035,282; Aug. 13; Gaz. vol. 181; p. 326.
Warner, Henry S., *et al.* (See Roberts, Henry P., assignor.)
Warner, Hugh L., Muncie, Ind. Differential gearing. No. 1,018,535; Feb. 27; Sp. p. 5153; Gaz. vol. 175; p. 897.
Warner Instrument Company. (See Cadman, Addi B., assignor.)
Warner Instrument Company. (See Warner and Cadman, assignors.)
Warner, Jacob C., Stockton, Cal. Door-jack. No. 1,018,282; Feb. 20; Sp. p. 4525; Gaz. vol. 175; p. 778.
Warner, James, Philadelphia, Pa. Arch construction. No. 1,038,996; Sept. 17; Gaz. vol. 182; p. 685.
Warner, James L., Girard, Kans. Violin-piano. No. 1,015,462; Jan. 23; Sp. p. 5252; Gaz. vol. 174; p. 900.
Warner, James S., Forest Gate, England. Axle-truck or undercarriage for railway, tramway, and mining vehicles. No. 1,022,054; Apr. 2; Sp. p. 643; Gaz. vol. 177; p. 102.
Warner Jewelry Case Company. (See Sundee, John R., assignor.)
Warner, John H., Mount Pocono, Pa. Broken-spring repairer. No. 1,017,485; Feb. 13; Sp. p. 2778; Gaz. vol. 175; p. 469.
Warner, Otis H., and G. G. Rickerson, Augusta, Ga. Corner-fastening for bedsteads. No. 1,031,216; July 2; Gaz. vol. 180; p. 130.
Warner, Otto P. (See Hawthorne, Wyatt, and Warner.)
Warner, William J., and A. Feiler, New York, N. Y. Stopper for bottles. No. 1,038,465; Sept. 10; Gaz. vol. 182; p. 468.
Warner, Worcester R., assignor to M. S. Towson, Cleveland, Ohio. Vibration-arrester for automobile steering mechanism. No. 1,015,861; Jan. 30; Sp. p. 6093; Gaz. vol. 174; p. 1062.
Warnick, William, and H. L. Leilich, assignors to The Delphos Manufacturing Company, Delphos, Ohio. Knockdown brooder-coop. No. 1,048,611; Dec. 31; Gaz. vol. 185; p. 1108.
Warnitz, Henry C., Providence, R. I. Hoisting apparatus. No. 1,021,564; Mar. 26; Sp. p. 5448; Gaz. vol. 176; p. 981.
Warnke, Oscar G., Cleveland, Ohio. Smoke-preventer. No. 1,048,245; Dec. 24; Gaz. vol. 185; p. 943.
Warren, Alva S., Batavia, N. Y. Device for exhibiting pictures. No. 1,048,379; Dec. 24; Gaz. vol. 185; p. 990.
Warren, Charles, Rockford, Ill. Autopneumatic playing device for musical instruments. No. 1,014,545; Jan. 9; Sp. p. 3176; Gaz. vol. 174; p. 529.
Warren, David. (See Pierce and Warren.)
Warren, Elmer P., assignor of one-half to M. H. McNaught, Indianapolis, Ind. Elevator-door controller. No. 1,035,761; Aug. 13; Gaz. vol. 181; p. 489.
Warren, Frank, assignor to The Toledo Electric Welder Company, Cincinnati, Ohio. Electric welding-machine No. 1,046,239; Dec. 3; Gaz. vol. 185; p. 154.
Warren, Frank, assignor to The Toledo Electric Welder Company, Cincinnati, Ohio. Electric welding-machine. No. 1,046,240; Dec. 3; Gaz. vol. 185; p. 154.
Warren, Frank H., Swampscott, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for use in the manufacture of boots and shoes. No. 1,023,284; Apr. 16; Sp. p. 3301: Gaz. vol. 177; p. 590.
Warren, Frank H., Swampscott, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Cementing-machine. No. 1,030,623; June 25; Sp. p. 5758; Gaz. vol. 179; p. 990.
Warren, Frederic A., Canon City, Colo. Mine-insulator. No. 1,031,975; July 9; Gaz. vol. 180; p. 432.
Warren, George E., Boston, Mass., assignor to Campbell Bosworth Machinery Company, Portland, Me. Sewing-machine. No. 1,030,797; June 25; Sp. p. 6218; Gaz. vol. 179; p. 1032.
Warren, Harry S. (See Featherstone, Willard B., assignor.)
Warren, James W., Lincoln, Tex. Game apparatus. No. 1,046,125; Dec. 3; Gaz. vol. 185; p. 112.
Warren, Joseph D., Providence, R. I. Carbureter. No. 1,038,804; Sept. 17; Gaz. vol. 182; p. 620.
Warren, Thomas E., assignor to Ticonderoga Machine Works, Ticonderoga, N. Y. Bur for dressing grinding-stones. No. 1,037,692; Sept. 3; Gaz. vol. 182; p. 174.
Warren, Thomas W., assignor one-fourth to J. W. Evans, Point Marion, Pa. Display-rack. No. 1,014,426; Jan. 9; Sp. p. 2970; Gaz. vol. 174; p. 492.
Warren, Thomas W., assignor of one-fourth to J. W. Evans, Point Marion, Pa. Bottle-stopper. No. 1,014,427; Jan. 9; Sp. p. 2971; Gaz. vol. 174; p. 493.
Warren Webster & Co. (See Ball, Charles A., assignor.)
Warren Webster & Company. (See Braemer, William G. R., assignor.)
Warren Webster and Company. (See Fitts, James L., assignor.)
Warren Webster & Company. (See Fitts and Hunter, assignors.)
Warren Webster & Company. (See Hunter, Rudolph M., assignor.)
Warren Webster & Company. (See Morgan and Fitts, assignors.)
Warren, William A., Hurley, N. Y. Conduit for high-tension electric currents. No. 1,044,108; Nov. 12; Gaz. vol. 184; p. 403.
Warrick, John A., Chicago, Ill. Flying-machine. No. 1,022,903; Apr. 9; Sp. p. 2457; Gaz. vol. 177; p. 418.
Warrington, James N., Los Angeles, Cal. Automatic pile-driver. No. 1,019,386; Mar. 5; Sp. p. 892; Gaz. vol. 176; p. 132.
Warrington, James N., Los Angeles, Cal. Hood or cap for piles. No. 1,020,467; Mar. 19; Sp. p. 3089; Gaz. vol. 176; p. 558.
Warsaw, Charles E., and A. P. Ball, Ames, Iowa. Non-refillable vacuum-bottle. No. 1,019,866; Mar. 12; Sp. p. 1834; Gaz. vol. 176; p. 322.
Warstler, Levi, and P. F. Loichot, Louisville, Ohio. Coffee-grinder. No. 1,027,019; May 21; Sp. p. 4276; Gaz. vol. 178; p. 728.
Warth, Nathaniel G., Columbus, Ohio. Telephone-repeater. No. 1,022,519; Apr. 9; Sp. p. 1606; Gaz. vol. 177; p. 287.
Warther, Joseph G., assignor to The Crane & Breed Manufacturing Company, Cincinnati, Ohio. Casket-handle. No. 1,044,312; Nov. 12; Gaz. vol. 184; p. 473.
Warthon, Carl H., Lincoln, Nebr. Shoe-stretcher. No. 1,040,473; Oct. 8; Gaz. vol. 183; p. 299.
Wartnaby, J. S. (See Bird, William T., assignor.)
Warwick, Earl C., Kansas City, Mo. Spray. No. 1,020,937; Mar. 19; Sp. p. 4091; Gaz. vol. 176; p. 715.
Warwick, George T., Springfield, Mass. Screw-machine. No. 1,044,429; Nov. 12; Gaz. vol. 184; p. 513.
Warwick, Harold L., Fort Worth, Tex. Telephone-call recorder. No. 1,041,536; Oct. 15; Gaz. vol. 183; p. 694.
Warwick, Robert, Bolton, England, W. Warwick, Fort, Bombay, India, and A. Reason, Bolton, England: Manufacture of covers for rollers used in textile machinery. No. 1,044,956; Nov. 19; Gaz. vol. 184; p. 726.
Warwick, Walter. (See Warwick and Reason.)
Washabaugh, Vernon C., and J. S. Peters, Scottdale, Pa. Tie and rail-fastener. No. 1,027,946; May 28; Sp. p. 6272; Gaz. vol. 178; p. 1078.
Washburn, Frank S., Nashville, Tenn. Process of and apparatus for making calcium cyanamid from calcium carbid. No. 1,015,720; Jan. 23; Sp. p. 5798; Gaz. vol. 174; p. 988.
Washburn, Frank S., Nashville, Tenn. Electric furnace for producing oxids of phosphorus from natural phosphates. No. 1,044,957; Nov. 19; Gaz. vol. 184; p. 726.
Washburn, Frank S., Nashville, Tenn. Producing phosphorus from mineral phosphates. No. 1,047,864; Dec. 17; Gaz. vol. 185; p. 791.
Washburn, James M., Chicago, Ill. Support for cards, pictures, and the like. No. 1,025,346; May 7; Sp. p. 530; Gaz. vol. 178; p. 83.
Washburn, James M., Chicago, Ill. Support for cards, pictures, and the like. No. 1,033,846; July 30; Gaz. vol. 180; p. 1170.

Alphabetical list of patentees—Continued.

Washburn, James M., Chicago, Ill. Support for cards, pictures, and the like. No. 1,033,847; July 30; Gaz. vol. 180; p. 1171.
Washburn, James M., Chicago, Ill. Distance-finder. No. 1,033,848; July 30; Gaz. vol. 180; p. 1171.
Washburn, James M., Chicago, Ill. Distance-gage. No. 1,033,849; July 30; Gaz. vol. 180; p. 1171.
Washburn, James M., Chicago, Ill. Distance-finder. No. 1,033,850; July 30; Gaz. vol. 180; p. 1172.
Washburn, James M., Chicago, Ill. Holder for cards, pictures, and the like. No. 1,040,066; Oct. 1; Gaz. vol. 183; p. 132.
Washburn, James M., Chicago, Ill. Holder for cards, pictures, and the like. No. 1,040,067; Oct. 1; Gaz. vol. 183; p. 132.
Washburn, Thomas E., Coalinga, Cal. Sprinkling-pot valve. No. 1,038,466; Sept. 10; Gaz. vol. 182; p. 469.
Washburne, James V., Fulton, N. Y. Eraser. No. 1,013,575; Jan. 2; Sp. p. 1046; Gaz. vol. 174; p. 168.
Washington, Alfred D., Detroit, Mich. Shoe-polishing machine. No. 1,020,587; Mar. 19; Sp. p. 3362; Gaz. vol. 176; p. 598.
Washington, Dixon E., assignor of one-half to C. W. Patton, Chicago, Ill. Governor. No. 1,044,313; Nov. 12; Gaz. vol. 184; p. 473.
Washington, George. (See Clay and Washington.)
Washington Iron Works Co. (See Watt, Sern P., assignor.)
Washington, Lawrence T., Mount Rainier, D. C. Portable-incandescent-lamp handle. No. 1,023,449; Apr. 16; Sp. p. 3620; Gaz. vol. 177; p. 642.
Washington Steel & Ordnance Company. (See Dixon, Thomas, assignor.)
Washington, William, Burlington, N. J. Hose-protector. No. 1,046,516; Dec. 10; Gaz. vol. 185; p. 289.
Waskom, Jacob J., Danville, Ky. Driving means for children's vehicles. No. 1,032,455; July 16; Gaz. vol. 180; p. 639.
Wasmus, Adolf, Moscow, Russia. Manufacturing envelops or bags. No. 1,035,109; Aug. 6; Gaz. vol. 181; p. 236.
Wasserscheid, Rudolf C., *et al.* (See Vetterlein, Henry M., assignor.)
Wasserzier, Hermann, Karlshorst, near Berlin, Germany. Electric ignition apparatus for gas-burners. No. 1,030,953; July 2; Gaz. vol. 180; p. 35.
Wassill, Nicholas E., Saxon Hill, Saskatchewan, Canada. Match-box. No. 1,023,898; Apr. 23; Sp. p. 4561; Gaz. vol. 177; p. 814.
Wasson, Robert B., Cranford, N. J. Machine for making packing-rings. No. 1,016,380; Feb. 6; Sp. p. 311; Gaz. vol. 175; p. 50.
Watanabe, Tetsusaburo, New York, N. Y. Fountain paint-brush. No. 1,026,009; May 14; Sp. p. 2003; Gaz. vol. 178; p. 345.
Watanabe, Tetsusaburo, New York, N. Y. Fountain paint-brush. No. 1,026,010; May 14; Sp. p. 2004; Gaz. vol. 178; p. 346.
Watanabe, Tetsusaburo, New York, N. Y. Reservoir attachment for pens. No. 1,026,011; May 14; Sp. p. 2005; Gaz. vol. 178; p. 346.
Watanabe, Tetsusaburo, New York, N. Y. Device for stopping runaway horses. No. 1,026,012; May 14; Sp. p. 2006; Gaz. vol. 178; p. 346.
Watanabe, Tetsusaburo, New York, N. Y. Fountain-pen. No. 1,038,034; Sept. 10; Gaz. vol. 182; p. 321.
Water Vacuum Cleaner Co. (See Birrell, James and W., assignors.)
Waterbury Clock Co. (See Horn, Ernest H., assignor.)
Waterbury Clock Co., The. (See Lux, Paul, assignor.)
Waterbury Clock Co. (See Putnam, James R., assignor.)
Waterbury Clock Co. (See Wehinger, Frederick, assignor.)
Waterbury Farrel Foundry and Machine Company, The. (See O'Donnell and Pierson, assignors.)
Waterbury Farrel Foundry and Machine Company, The. (See Wilcox, Richard L., assignor.)
Waterbury Mfg. Co. (See Recker, Adolph C., assignor.)
Waterbury Mfg. Co. (See Brakenridge, William H., assignor.)
Waterbury Mfg. Co. (See Goetz, Henry F., assignor.)
Waterbury Mfg. Co., The. (See Smith, Frederick C., assignor.)
Waterbury Mfg. Co. (See Welton, Harry C., assignor.)
Waterbury Tool Company, The. (See Williams, Harvey D., assignor.)
Waterhouse, Addison G., New York, N. Y. Change-speed gearing. No. 1,032,168; July 9; Gaz. vol. 180; p. 496.
Waterhouse, Albert. (See Smith and Waterhouse.)
Waterhouse, Herman J. (See Parks, Edward F., assignor.)
Waterloo Cement Machinery Company. (See Ahlborn, Theodore, assignor.)
Waterloo Cement Machinery Corporation, The. (See Ahlborn, Theodore, assignor.)
Waterloo Gasolene Engine Company. (See Witry, Louis W., assignor.)
Waterloo Register Company. (See Carter, William L., assignor.)
Waterloo Threshing Machine Company. (See Hawes, Joel D., assignor.)
Waterman, Bradford B., East Bridgewater, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Heel-breasting machine. (Reissue.) No. 13,413; Apr. 30; Sp. p. 7243; Gaz. vol. 177; p. 1270.
Waterman, Glenn R. (See Whitehead, Richard A., assignor.)
Waterman, Lewis E., assignor to Emerson-Brantingham Company, Rockford, Ill. Wheel-support for harrows. No. 1,025,767; May 7; Sp. p. 1451; Gaz. vol. 178; p. 228.
Waterman, Lewis E., assignor to Emerson-Brantingham Company, Rockford, Ill. Wheeled plow. No. 1,025,768; May 7; Sp. p. 1452; Gaz. vol. 178; p. 228.
Waterman, Lewis E., assignor to Emerson-Brantingham Company, Rockford, Ill. Corn-planter. No. 1,025,769; May 7; Sp. p. 1453; Gaz. vol. 178; p. 228.
Waterman, Lewis E., assignor to Emerson-Brantingham Company, Rockford, Ill. Cultivator-frame. No. 1,025,770; May 7; Sp. p. 1455; Gaz. vol. 178; p. 229.
Waterman, Lewis E., assignor to Emerson-Brantingham Company, Rockford, Ill. Cultivator-shovel support. No. 1,025,771; May 7; Sp. p. 1456; Gaz. vol. 178; p. 229.
Waterman, Lewis E., assignor to Emerson-Brantingham Company, Rockford, Ill. Seeding-machine. No. 1,042,990; Oct. 29; Gaz. vol. 183; p. 1254.
Waterman, Lewis E., assignor to Emerson-Brantingham Company, Rockford, Ill. Disk cultivator. No 1,042,991; Oct. 29; Gaz. vol. 183; p. 1254.
Waterman, Lewis E., Rockford, Ill., assignor to Emerson-Brantingham Company. Cultivator. No. 1,044,714; Nov. 19; Gaz. vol. 184; p. 643.
Waterman, Raymond, Minneapolis, Minn. Grading-machine. No. 1,041,387; Oct. 15; Gaz. vol. 183; p. 645.
Waterman, Richard B., Athol, Mass. Soap-feeding shaving-brush. No. 1,030,440; June 25; Sp. p. 5190; Gaz. vol. 179; p. 923.
Waterous, Frederick L., St. Paul, Minn. Pump. No. 1,024,919; Apr. 30; Sp. p. 6844; Gaz. vol. 177; p. 1202.
Waters, David, Pictou, Nova Scotia, Canada. Razor-stropper. No. 1,019,105; Mar. 5; Sp. p. 210; Gaz. vol. 176; p. 34.
Waters, Gabe H., Greer, S. C. Self-heating sad-iron. No. 1,033,641; July 23; Gaz. vol. 180; p. 1077.
Waters, Harry B., Denver, Colo. Butter-cutter. No. 1,027,020; May 21; Sp. p. 4278; Gaz. vol. 178; p. 728.
Waters, Herbert B., *et al.* (See Sloane, George H., assignor.)
Waters, James H. (See Ponder, Benjamin H., assignor.)
Waters, John F., Chicago, Ill. Meat-saw. No. 1,033,969; July 30; Gaz. vol. 180; p. 1214.
Waters, Louis A., Newport, Ky. Merchandise-wrapper. No. 1,047,351; Dec. 17; Gaz. vol. 185; p. 612.
Waterworth, Charles E., Las Cascadas, Canal Zone. Hat-guard. No. 1,021,647; Mar. 26; Sp. p. 5603; Gaz. vol. 176; p. 1007.
Waterworth, Charles E., Las Cascades, Canal Zone. Boat-davit. No. 1,040,822; Oct. 8; Gaz. vol. 183; p. 422.
Wathey, Jesse S., Butte, Mont. Brake-rigging. No. 1,037,090; Aug. 27; Gaz. vol. 181; p. 1013.
Watkins, Alfred, Chelsea, London, England. Machine for grinding the contact-surfaces of carbon brushes for dynamos and the like. No. 1,019,287; Mar. 5; Sp. p. 628; Gaz. vol. 176; p. 98.
Watkins, Arthur G., assignor of one-fourth to D. J. Beitzel, Mechanicsburg, Pa. Shade or curtain fixture. No. 1,041,537; Oct. 15; Gaz. vol. 183; p. 695.
Watkins, Arthur G., assignor of one-fourth to D. J. Beitzel, Mechanicsburg, Pa. Flying-machine. No. 1,047,865; Dec. 17; Gaz. vol. 185; p. 791.
Watkins, Arthur O., London, England. Printing. No. 1,025,495; May 7; Sp. p. 872; Gaz. vol. 178; p. 136.
Watkins, Edward G., Gardner, assignor to Samuel J. Shimer & Sons, Milton, Mass. Bit-adjuster for rotary cutter-heads. No. 1,032,636; July 16; Gaz. vol. 180; p. 701.
Watkins, Evan, assignor of one-half to G. H. Hanna, Cleveland, Ohio. Sidewalk-flusher. No. 1,022,345; Apr. 2; Sp. p. 1237; Gaz. vol. 177; p. 198.
Watkins, Grant, and S. M. Taylor, Truckee, Cal. Gage for cutter-heads. No. 1,026,136; May 14; Sp. p. 2309; Gaz. vol. 178; p. 390.
Watkins, Harry. (See Nelson and Watkins.)
Watkins, Owen H., Corvallis, Oreg. Hay-shocker. No. 1,039,230; Sept. 24; Gaz. vol. 182; p. 781.
Watkins, Robert L., New York, N. Y. Method and means for preserving and mailing specimens. No. 1,015,601; Jan. 23; Sp. p. 5543; Gaz. vol. 174; p. 949.
Watkins, Robert L., New York, N. Y. Photomicrographic and projecting apparatus. No. 1,049,182; Dec. 31; Gaz. vol. 185; p. 1304.
Watkins, Thomas, Wilson, Pa., assignor of one-half to U. U. Carr, Pittsburgh, Pa. Car-buffer construction. No. 1,026,063; May 14; Sp. p. 2137; Gaz. vol. 178; p. 364.
Watkins, Waldo E., *et al.* (See Harris, Edward E., assignor.)
Watkins, William D., Honey Bend, Ill. Permutation-padlock. No. 1,048,772; Dec. 31; Gaz. vol. 185; p. 1165.

Alphabetical list of patentees—Continued.

Watkins, William F., assignor of one-eighth to E. Hines and one-fourth to H. A. Tucker, Butte, Mont. Amusement device. No. 1,041,538; Oct. 15; Gaz. vol. 183; p. 695.
Watkins, William J., assignor to O. G. Hurdleston, Fort Worth, Tex. Manufacturing carbureted hydrogen gas. No. 1,019,705; Mar. 5; Sp. p. 1513; Gaz. vol. 176; p. 234.
Watmough, Pendleton G., Jr., New Brighton, N. Y. Illuminated sign. No. 1,029,734; June 18; Sp. p. 3627; Gaz. vol. 179; p. 639.
Watres, Lewis S., assignor of fifty-one one-hundredths to C. D. Simpson, Scranton, Pa. Lubricating apparatus. No. 1,017,935; Feb. 20; Sp. p. 3792; Gaz. vol. 175; p. 658.
Watres, Lewis S., assignor to Hull Manufacturing Company, Scranton, Pa. Low-water alarm for steam-boilers. No. 1,045,484; Nov. 26; Gaz. vol. 184; p. 940.
Watres, Lewis S. and R., Scranton, Pa. Internal-combustion engine. No. 1,030,217; June 18; Sp. p. 4674; Gaz. vol. 179; p. 803.
Watres, Reyburn. (See Watres, Lewis S. and R.)
Watrigant, Henri L. A. M. (See Guignard and Watrigant.)
Watrous, Earl G., Chicago, Ill. Lavatory-fixture. No. 1,016,051; Jan. 30; Sp. p. 6503; Gaz. vol. 174; p. 1131.
Watrous, Earl G., Chicago, Ill. Basin-cock. No. 1,018,463; Feb. 27; Sp. p. 4930; Gaz. vol. 175; p. 871.
Watrous, Earl G., Chicago, Ill. Water-closet. No. 1,040,474; Oct. 8; Gaz. vol. 183; p. 299.
Watrous, Earl G., Chicago, Ill. Supporting device for water-closets. No. 1,040,823; Oct. 8; Gaz. vol. 183; p. 422.
Watrous, Edward L., Des Moines, Iowa. Combined hinge and hanger. No. 1,033,851; July 30; Gaz. vol. 180; p. 1172.
Watrous, Edward L., Des Moines, Iowa, assignor to E. L. Watrous Galvanizing Company. Metal-plated article. No. 1,027,782; May 28; Sp. p. 5871; Gaz. vol. 178; p. 1021.
Watrous, Edward L., Des Moines, Iowa, assignor to D. B. Gann, Chicago, Ill. Handle. No. 1,040,596; Oct. 8; Gaz. vol. 183; p. 344.
Watrous, Edward L., Des Moines, Iowa, assignor to D. B. Gann, Chicago, Ill. Box-fastener. No. 1,042,511; Oct. 29; Gaz. vol. 183; p. 1088.
Watrous, Edward L., Des Moines, Iowa, assignor to D. B. Gann, Chicago, Ill. Sheet-metal lever-socket. No. 1,046,241; Dec. 3; Gaz. vol. 185; p. 154.
Watson, Alexander, Beachmont, assignor to B. C. Leavitt, trustee, Duxbury, Mass. Gate-valve. No. 1,016,461; Feb. 6; Sp. p. 514; Gaz. vol. 175; p. 79.
Watson, Charles, Glen Huon, Tasmania, Australia. Fruit-grader. No. 1,030,552; June 25; Sp. p. 5486; Gaz. vol. 179; p. 963.
Watson, Charles J. (See Parker, Rufus T., assignor.)
Watson, Charles L., Kansas City, Mo. Oil-burner. No. 1,032,637; July 16; Gaz. vol. 180; p. 701.
Watson, Chester A. (See Boone and Watson.)
Watson, Claude R. (See Raymond and Watson.)
Watson, Clem L., McAlester, Okla. Preserving green corn on the cob. No. 1,013,244; Jan. 2; Sp. p. 339; Gaz. vol. 174; p. 54.
Watson, David L. (See Watson, John C., assignor.)
Watson, David S. (See Kittredge, Rufus J., assignor.)
Watson, David S., Canastota, N. Y. Fire-shield. No. 1,032,717; July 16; Gaz. vol. 180; p. 730.
Watson, Edgar D., assignor of one-half to S. Watson, San Francisco, Cal. Timing attachment for camera-shutters. No. 1,013,525; Jan. 2; Sp. p. 949; Gaz. vol. 174; p. 152.
Watson, Edward L., Dallas, S. D. Veterinarian's castrating-knife. No. 1,037,693; Sept. 3; Gaz. vol. 182; p. 174.
Watson, Frank C., Des Moines, Iowa. Carbureter. No. 1,044,314; Nov. 12; Gaz. vol. 184; p. 473.
Watson, Frank L., Womer, Kans. Device for lifting tubes, tiles, and the like. No. 1,026,536; May 14; Sp. p. 3176; Gaz. vol. 178; p. 525.
Watson, George D. (See Porter and Watson.)
Watson, Henry W. and W. W., Jamestown, N. Y. Metallic screen. No. 1,030,694; June 25; Sp. p. 5937; Gaz. vol. 179; p. 1014.
Watson, James, Wilmington, Del. Dumping-wagon. No. 1,015,105; Jan. 16; Sp. p. 4471; Gaz. vol. 174; p. 753.
Watson, James, Marinette, Wis. Grating. No. 1,035,927; Aug. 20; Gaz. vol. 181; p. 584.
Watson, James T., assignor of one-half to B. G. Slaughter, Jr., Copperhill, Tenn. Means for controlling electric motors. No. 1,044,609; Nov. 19; Gaz. vol. 184; p. 606.
Watson, Jerrold F. (See Eddy, Schuyler C., assignor.)
Watson, John A., Peru, Ind. Luggage-carrier. No. 1,016,381; Feb. 6; Sp. p. 317; Gaz. vol. 175; p. 50.
Watson, John C., assignor of one-half to D. L. Watson, Terre Haute, Ind. Relief-valve. No. 1,040,068; Oct. 1; Gaz. vol. 183; p. 133.
Watson & McDaniel Company. (See Jahn, Frederick L., assignor.)
Watson, Orra M., Dallas City, Ill. Lock-nut for bolts. No. 1,019,387; Mar. 5; Sp. p. 898; Gaz. vol. 176; p. 132.
Watson, Richard M., assignor to Gibford Specialty Co., Detroit, Mich. Stropping-machine. No. 1,024,659; Apr. 30; Sp. p. 6299; Gaz. vol. 177; p. 1110.
Watson, Richard M., Detroit, Mich., assignor to The Blackwell, Wielandy Book & Stationery Company, St. Louis, Mo. Loose-leaf binder. No. 1,042,625; Oct. 29; Gaz. vol. 183; p. 1129.
Watson, Richard M., Detroit, Mich., assignor to The Blackwell, Wielandy Book & Stationery Company, St. Louis, Mo. Clasping device for loose-leaf binders. No. 1,042,626; Oct. 29; Gaz. vol. 183; p. 1129.
Watson, Robert. (See Hoofnagle, William T., assignor.)
Watson, Samuel J. (See Malmgren, Todd, and Watson.)
Watson, Samuel S., Colegrove, assignor to C. F. Schwickert, Los Angeles, Cal. Hose-coupling. No. 1,019,000; Feb. 27; Sp. p. 6142; Gaz. vol. 175; p. 1056.
Watson, Simeon P., Brooklyn, N. Y. Circuit-closer. No. 1,023,183; Apr. 16; Sp. p. 3098; Gaz. vol. 177; p. 554.
Watson, Sydney. (See Watson, Edgar D., assignor.)
Watson, Thomas S., assignor to Thos. S. Watson Company, Milwaukee, Wis. Elevating, transporting, and discharging apparatus. No. 1,019,867; Mar. 12; Sp. p. 1836; Gaz. vol. 176; p. 322.
Watson, William H., Riverdale, Nebr. Poultry-feeder. No. 1,013,707; Jan. 2; Sp. p. 1365; Gaz. vol. 174; p. 213.
Watson, William J., Ladysmith, British Columbia, Canada. Preserving wood. No. 1,015,862; Jan. 30; Sp. p. 6095; Gaz. vol. 174; p. 1063.
Watson, William U., Chicago, Ill. Grease-gun. No. 1,042,627; Oct. 29; Gaz. vol. 183; p. 1129.
Watson, William W. (See Watson, Henry W. and W. W.)
Watson, Winfield S., Memphis, Tenn. Treating the candelilla-plant for the recovery of wax. No. 1,042,992; Oct. 29; Gaz. vol. 183; p. 1255.
Watt, George H., assignor to Watt Motor Company, Detroit, Mich. Controlling device for explosive-engines. No. 1,013,245; Jan. 2; Sp. p. 341; Gaz. vol. 174; p. 54.
Watt Mining Car Wheel Company, The. (See Baker, Blowers, and Bines, assignors.)
Watt Motor Company. (See Watt, George H., assignor.)
Watt, Sern P., assignor to Washington Iron Works Co., Seattle, Wash. Cable-tramway. No. 1,017,831; Feb. 20; Sp. p. 3533; Gaz. vol. 175; p. 621.
Watt, Sern P., assignor of one-half to F. G. Frink, Seattle, Wash. Airship. No. 1,022,715; Apr. 9; Sp. p. 2076; Gaz. vol. 177; p. 357.
Watt, Thomas H. (See Kneifel and Watt.)
Watterson, Walter J., Strawn, Ill. Railway-tie. No. 1,014,351; Jan. 9; Sp. p. 2819; Gaz. vol. 174; p. 466.
Wattles, Cyra B., Providence, R. I. Recording device. No. 1,044,835; Nov. 19; Gaz. vol. 184; p. 685.
Wattles, Luther H., Providence, assignor of one-half to M. C. Messler, Pawtucket, R. I. Sparking igniter. No. 1,024,710; Apr. 30; Sp. p. 6404; Gaz. vol. 177; p. 1128.
Watts, Alvin L., Chicago, Ill. Fountain-pen. No. 1,020,237; Mar. 12; Sp. p. 2629; Gaz. vol. 176; p. 445.
Watts, Charles, Newark, N. J. Game apparatus. No. 1,026,188; May 14; Sp. p. 2419; Gaz. vol. 178; p. 407.
Watts, Charles J., and F. J. Eberle, assignors to The Owen Machine Tool Company, Springfield, Ohio. Milling-machine. No. 1,023,184; Apr. 16; Sp. p. 3099; Gaz. vol. 177; p. 554.
Watts & Co., Wm. H. (See Eisele, Louis F., assignor.)
Watts, George. (See Groat, John T., assignor.)
Watts, Herbert R., Brooklands, England. Circular slide-rule. No. 1,017,719; Feb. 20; Sp. p. 3242; Gaz. vol. 175; p. 581.
Watts, Seaborn P., Abbeville, La. Rail joint and fastener. No. 1,038,035; Sept. 10; Gaz. vol. 182; p. 322.
Watzlawik, Fritz, Schöneberg, near Berlin, Germany. Spinning-machine. No. 1,048,920; Dec. 31; Gaz. vol. 185; p. 1215.
Waugh, Daniel S., assignor to The Denver Rock Drill & Machinery Co., Denver, Colo. Lubricating mechanism. No. 1,022,284; Apr. 2; Sp. p. 1121; Gaz. vol. 177; p. 178.
Waugh, Daniel S., assignor to The Denver Rock Drill and Machinery Company, Denver, Colo. Drill-hole-cleaning attachment for hammer-drills. (Reissue.) No. 13,403; Apr. 9; Sp. p. 2921; Gaz. vol. 177; p. 498.
Waugh, Daniel S., assignor to The Denver Rock Drill and Machinery Co., Denver, Colo. Drill-hole-cleaning attachment for hammer-drills. No. 1,023,899; Apr. 23; Sp. p. 4563; Gaz. vol. 177; p. 814.
Waugh, Daniel S., assignor to The Denver Rock Drill & Machinery Co., Denver, Colo. Motive-fluid-operated tool. No. 1,042,512; Oct. 29; Gaz. vol. 183; p. 1089.
Waugh, Daniel S., assignor to The Denver Rock Drill & Machinery Company, Denver, Colo. Motor-lubricating means. No. 1,049,010; Dec. 31; Gaz. vol. 185; p. 1247.
Waugh, James C., assignor of one-half to J. A. Farquhar, Kansas City, Mo. Fuel-feeding apparatus. No. 1,043,488; Nov. 5; Gaz. vol. 184; p. 159.
Wauters, Joseph, Scranton, Pa., assignor to The Rudolph Wurlitzer Manufacturing Company, North Tonawanda, N. Y. Tuning device for self-playing musical instruments. No. 1,014,925; Jan. 16; Sp. p. 4107; Gaz. vol. 174; p. 692.

Wauters, Joseph, Scranton, Pa., assignor to The Rudolph Wurlitzer Manufacturing Company, North Tonawanda, N. Y. Automatic musical instrument. No. 1,042,732; Oct. 29; Gaz. vol. 183; p. 1166.
Wauters, Joseph, Binghamton, assignor to The Rudolph Wurlitzer Manufacturing Company, North Tonawanda, N. Y. Self-playing violin. No. 1,018,384; Feb. 20; Sp. p. 4746; Gaz. vol. 175; p. 813.
Wauters, Joseph, assignor to The Rudolph Wurlitzer Manufacturing Company, North Tonawanda, N. Y. Tone-modifying device for automatic violins. No. 1,042,513; Oct. 29; Gaz. vol. 183; p. 1089.
Waverley Company, The. (See Chamberlin, Victor E., assignor.)
Waverley Company, The. (See Kennedy, Harold H., assignor.)
Waverley Company, The. (See Maxim, Hiram P., assignor.)
Waverley Manufacturing Company. (See Kitlitschko, Frank, assignor.)
Wawrzeniecki, Stanislaw, Elizabeth, Pa. Feed-bag. No. 1,037,694; Sept. 3; Gaz. vol. 182; p. 174.
Waxbom, Carl J. E., Westerville, Ohio, assignor to The Jeffrey Manufacturing Company. Current-collecting mechanism. No. 1,027,090; May 21; Sp. p. 4469; Gaz. vol. 178; p. 753.
Waxbom, Carl J. E., Columbus, Ohio, assignor to The Jeffrey Manufacturing Company. Electrical apparatus. No. 1,049,011; Dec. 31; Gaz. vol. 185; p. 1247.
Waxler, Abraham M., Philadelphia, Pa. Dirigible balloon. No. 1,025,662; May 7; Sp. p. 1237; Gaz. vol. 178; p. 191.
Way, Howard E., Easton, Pa. Electric-light display system. No. 1,040,475; Oct. 8; Gaz. vol. 183; p. 299.
Way, J. E. (See Hilliard and Parsons, assignors.)
Way, James R. (See Sheppy and Way.)
Way, John W., Edgeworth, Pa. Vane for propeller-wheels. No. 1,014,730; Jan. 16; Sp. p. 3654; Gaz. vol. 174; p. 624.
Way, John W., Edgeworth, Pa. Aeroplane. No. 1,014,731; Jan. 16; Sp. p. 3655; Gaz. vol. 174; p. 625.
Way, John W., Edgeworth, Pa. Aeroplane. (Reissue.) No. 13,397; Apr. 2; Sp. p. 1340; Gaz. vol. 177; p. 218.
Waybright, Charles S., Staunton, Va. Churn. No. 1,023,696; Apr. 16; Sp. p. 4095; Gaz. vol. 177; p. 719.
Waybright, Charles S., Staunton, Va. Churn. No. 1,042,628; Oct. 29; Gaz. vol. 183; p. 1130.
Waymoth, Charles H., Fitchburg, Mass. Spindle-turning lathe. No. 1,022,450; Apr. 9; Sp. p. 1474; Gaz. vol. 177; p. 265.
Wayne Manufacturing Company. (See Marth, Charles J., assignor.)
Wazau, Georg, Geithain, Germany. Dynamometer for measuring forces. No. 1,027,300; May 21; Sp. p. 4893; Gaz. vol. 178; p. 823.
Weakley, Raymond D., assignor of fifty-one one-hundredths to E. W. Grove, St. Louis, Mo. Bonding means for reinforced concrete structures. No. 1,046,913; Dec. 10; Gaz. vol. 185; p. 427.
Weander, Axel O., Moline, Ill. Brush wiper and holder. No. 1,046,694; Dec. 10; Gaz. vol. 185; p. 352.
Wear, Charles, Malden, Mass., assignor to Morris Cash Register Company, Portland, Me. Cash-register. No. 1,046,353; Dec. 3; Gaz. vol. 185; p. 193.
Wear, F. E. (See Sturgis, Herbert M., assignor.)
Wear, Frank F., San Francisco, Cal. Coffee refiner and grader. No. 1,039,854; Oct. 1; Gaz. vol. 183; p. 63.
Wear, Frank F., San Francisco, Cal., assignor to himself, as trustee. Self-inflating and non-collapsible pneumatic tire. No. 1,035,283; Aug. 13; Gaz. vol. 181; p. 326.
Wear, Frank F., San Francisco, and R. Morgeneier, Oakland, Cal.; said Morgeneier assignor to said Wear. Power-driven meat-saw. No. 1,031,217; July 2; Gaz. vol. 180; p. 131.
Wear, James S. (See Jones, Metcalf, and Wear.)
Wearn, George W., Charlotte, N. C., assignor of one-fourth to W. E. McElroy, West Pompano, Fla. Folding window-blind. No. 1,019,567; Mar. 5; Sp. p. 1267; Gaz. vol. 176; p. 189.
Wearn, James S., Christchurch, New Zealand. Destination-board for tram-cars and the like. No. 1,044,715; Nov. 19; Gaz. vol. 184; p. 643.
Weast, Fenton A. (See Abbott, Ambrose E., assignor.)
Weatherby, Joseph, New Cumberland, assignor to A. J. Dull, Harrisburg, Pa. Magnetic ore-separator. No. 1,024,539; Apr. 30; Sp. p. 6015; Gaz. vol. 177; p. 1069.
Weatherby, Joseph, Jr., New Cumberland, assignor to A. J. Dull, Harrisburg, Pa. Magnetic separator. No. 1,024,538; Apr. 30; Sp. p. 6011; Gaz. vol. 177; p. 1069.
Weatherby, Joseph, Jr., and A. J. Dull, Harrisburg, Pa.; said Weatherby assignor to said Dull. Magnetic separator. No. 1,024,045; Apr. 23; Sp. p. 4876; Gaz. vol. 177; p. 864.
Weatherhead, Charles, Bradford, England. Apparatus for spinning yarn. No. 1,041,539; Oct. 15; Gaz. vol. 183; p. 695.
Weatherly, George B., Fort Worth, Tex. Wrench. No. 1,022,520; Apr. 9; Sp. p. 1615; Gaz. vol. 177; p. 288.
Weathers, Charles E., Sacramento, Cal. Beer-faucet. No. 1,042,514; Oct. 29; Gaz. vol. 183; p. 1090.
Weathers, Claude G., *et al.* (See Tessmer, Herman G., assignor.)
Weathers, Fab H., *et al.* (See Swindell, Walter B., assignor.)
Weatherwax, John A., Milledgeville, Ill. Pump-support. No. 1,046,126; Dec. 3; Gaz. vol. 185; p. 113.
Weatherwax, John A., Milledgeville, Ill. Pump-support. No. 1,046,127; Dec. 3; Gaz. vol. 185; p. 113.
Weaver, Benjamin D., River Rouge, Mich. Package-tie. No. 1,019,868; Mar. 12; Sp. p. 1839; Gaz. vol. 176; p. 322.
Weaver, Bent L. (See Reinoehl and Weaver.)
Weaver, Charles N., Covina, Cal. Transplanter. No. 1,044,109; Nov. 12; Gaz. vol. 184; p. 403.
Weaver, Charles W. (See Alexander, Julius M., assignor.)
Weaver, Clayton, Phalanx, and G. A. Price, Dillonvale, Ohio. Throttle-stem gland. No. 1,027,783; May 28; Sp. p. 5873; Gaz. vol. 178; p. 1022.
Weaver, Edgar L., and E. C. Kimmel, Saltillo, Pa. Starting mechanism for automobile-engines. No. 1,025,496; May 7; Sp. p. 873; Gaz. vol. 178; p. 136.
Weaver, Edgar S., Washington, D. C. Invalid's body-support. No. 1,043,648; Nov. 5; Gaz. vol. 184; p. 214.
Weaver, Frank E., Corning, Iowa. Seed-corn stringer. No. 1,028,645; June 4; Sp. p. 1253; Gaz. vol. 179; p. 193.
Weaver, George M., *et al.* (See Griffin, John, assignor.)
Weaver, Grover, assignor of one-half to W. P. Thompson, Rochelle, La. Box-lifter. No. 1,040,824; Oct. 8; Gaz. vol. 183; p. 422.
Weaver, Henry M., Mansfield, Ohio. Lavatory. No. 1,039,855; Oct. 1; Gaz. vol. 183; p. 63.
Weaver, Ira A., assignor to Racine-Sattley Company, Springfield, Ill. Plow. No. 1,021,024; Mar. 26; Sp. p. 4287; Gaz. vol. 176; p. 796.
Weaver, Ira A., assignor to Racine-Sattley Company, Springfield, Ill. Cultivator. No. 1,033,852; July 30; Gaz. vol. 180; p. 1172.
Weaver, Ira A., assignor to Racine-Sattley Company, Springfield, Ill. Plow. No. 1,038,036; Sept. 10; Gaz. vol. 182; p. 322.
Weaver, Ira A., assignor to Racine-Sattley Company, Springfield, Ill. Mounting for plows. No. 1,043,277; Nov. 5; Gaz. vol. 184; p. 81.
Weaver, John D., Mifflinburg, Pa. Hydraulic ram. No. 1,026,890; May 21; Sp. p. 3969; Gaz. vol. 178; p. 683.
Weaver, John E. (See Delafield, Benjamin T., assignor.)
Weaver, Leland S., Fremont, Mich., and W. F. Altenbaugh; said Weaver assignor to W. F. Altenbaugh, Jr., Seattle, Wash. Filing-cabinet. No. 1,021,025; Mar. 26; Sp. p. 4288; Gaz. vol. 176; p. 797.
Weaver, Mary A., Dalhart, Tex. Draining attachment for sinks. No. 1,026,537; May 14; Sp. p. 3178; Gaz. vol. 178; p. 526.
Weaver, Robert B., Detroit, Mich. Gear-grinding device. No. 1,017,612; Feb. 13; Sp. p. 3007; Gaz. vol. 175; p. 508.
Weaver, Robert B., Detroit, Mich. Grinding gears. No. 1,017,613; Feb. 13; Sp. p. 3009; Gaz. vol. 175; p. 509.
Weaver, Robert B., assignor to The Timken-Detroit Axle Company, Detroit, Mich. Gear-grinding device. No. 1,032,974; July 16; Gaz. vol. 180; p. 814.
Weaver, Robert R. (See Tesseyman and Weaver.)
Weaver, Robert R., assignor to The Ralston Steel Car Company, Columbus, Ohio. Dumping-car. No. 1,022,521; Apr. 9; Sp. p. 1616; Gaz. vol. 177; p. 288.
Weaver, Theodore, and D. M. Ennis, Cleveland, Ohio. Medicating-dilator. No. 1,015,253; Jan. 16; Sp. p. 4758; Gaz. vol. 174; p. 802.
Weaver, Walter T., Alexandria county, Va., and G. L. Beard, Washington, D. C. Ice-cutting apparatus. No. 1,030,624; June 25; Sp. p. 5763; Gaz. vol. 179; p. 990.
Weaver, Willis E., *et al.* (See Jernigan, Lee H., assignor.)
Webb, Albert C., assignor to The Webb Motor Fire Apparatus Company, St. Louis, Mo. Clutch mechanism. No. 1,016,052; Jan. 30; Sp. p. 6505; Gaz. vol. 174; p. 1132.
Webb, Albert C., assignor to The Webb Motor Fire Apparatus Company, St. Louis, Mo. Piston-pump for auto fire apparatus. No. 1,018,795; Feb. 27; Sp. p. 5697; Gaz. vol. 175; p. 985.
Webb, Albert C., assignor to The Webb Motor Fire Apparatus Company, St. Louis, Mo. Gear-shifter. No. 1,035,503; Aug. 13; Gaz. vol. 181; p. 403.
Webb, Christopher F. (See Coldman and Webb.)
Webb, Christopher F., London, England, and J. S. Stokes, Moorestown, N. J., assignors to Stokes & Smith Company, Summerdale, Pa. Music-roll holder for automatic pianos. No. 1,042,858; Oct. 29; Gaz. vol. 183; p. 1210.
Webb, Edwin W. (See Barber and Webb.)
Webb, George L., assignor of one-half to M. L. Kiser, Spencer, N. C. Spring-wheel. No. 1,034,046; July 30; Gaz. vol. 180; p. 1243.
Webb, George R. (See Stunz, William P., assignor.)
Webb, Harry E., Tonawanda, N. Y. Box. No. 1,039,619; Sept. 24; Gaz. vol. 182; p. 917.
Webb, Jean F., Jr., New York, N. Y. Brake-setting mechanism. No. 1,034,376; July 30; Gaz. vol. 180; p. 1357.

Alphabetical list of patentees—Continued.

Webb, Jean F., Jr., assignor to The Electric Signagraph and Semaphore Company, Incorporated, New York, N. Y. Contact-maker. No. 1,030,441; June 25; Sp. p. 5192; Gaz. vol. 179; p. 923.
Webb, Jean F., Jr., assignor to The International Signal Company, New York, N. Y. Balanced oscillatable shaft. No. 1,033,970; July 30; Gaz. vol. 180; p. 1215.
Webb, Mary. (See Bowly, Franklin H., assignor.)
Webb Motor Fire Apparatus Company, The. (See Webb, Albert C., assignor.)
Webb, Robert D. (See Webb, Samuel J.)
Webb, Robert D., *et al.*, heirs-at-law. (See Webb, Samuel J.)
Webb, Samuel J., Minden, La. Motor. No. 1,015,411; Jan. 23; Sp. p. 5131; Gaz. vol. 174; p. 882.
Webb, Samuel J.; R. D. Webb, Minden, La., by inheritance and by mesne assignments owner of entire title. Gas-engine. No. 1,031,601; July 2; Gaz. vol. 180; p. 261.
Webb, Samuel J.; R. D. Webb, Minden, La., by inheritance and by mesne assignments owner of entire title. Hot-air engine. No. 1,038,805; Sept. 17; Gaz. vol. 182; p. 620.
Webb, Samuel J., deceased, Minden, La.; A. W. Miller, L. W. Mills, C. W. Longino, R. D. Webb, and R. W. Grigsby, heirs-at-law. Compress. No. 1,025,849; May 7; Sp. p. 1614; Gaz. vol. 178; p. 256.
Webb, William B., Paducah, Ky. Attachment for dry and water closets. No. 1,042,061; Oct. 22; Gaz. vol. 183; p. 908.
Webb, Wilmer M., assignor to H. T. Paiste Company, Philadelphia, Pa. Nut-holder. No. 1,046,914; Dec. 10; Gaz. vol. 185; p. 427.
Webbe, William E., *et al.* (See Bash, Charles S., Jr., assignor.)
Webber, George H. and J. C., Grand Island, Nebr. Agricultural machine. No. 1,048,246; Dec. 24; Gaz. vol. 185; p. 944.
Webber, James C. (See Webber, George H. and J. C.)
Webel, Franz, Mannheim, assignor to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Producing diolefins. No. 1,026,418; May 14; Sp. p. 2937; Gaz. vol. 178; p. 486.
Webel, Franz, Mannheim, assignor to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Producing diolefins. No. 1,026,419; May 14; Sp. p. 2938; Gaz. vol. 178; p. 486.
Webel, Franz, Mannheim, assignor to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Producing diolefins. No. 1,026,420; May 14; Sp. p. 2939; Gaz. vol. 178; p. 486.
Weber, Aaron M., New York, N. Y. Collar foundation. No. 1,020,786; Mar. 19; Sp. p. 3794; Gaz. vol. 176; p. 665.
Weber, Albert H. W. (See Moebes and Weber.)
Weber-Bell, Susanne, Planegg, near Munich, Germany. Resonator for examining the human voice. No. 1,028,165; June 4; Sp. p. 249; Gaz. vol. 179; p. 30.
Weber, Charles, and H. D. Swaller, Columbus, Ohio. Fluid-pressure motor. No. 1,019,388; Mar. 5; Sp. p. 899; Gaz. vol. 176; p. 132.
Weber, Christian H. (See Leuschner, Andreas W., assignor.)
Weber, Christoph H., Berlin, Germany. Manufacture of metallic filaments for incandescence lighting. No. 1,016,804; Feb. 6; Sp. p. 1271; Gaz. vol. 175; p. 195.
Weber Dental Manufacturing Company, The. (See Weber, Henry E., assignor.) (Reissue.)
Weber, George, Mount Vernon, N. Y. Spike. No. 1,015,106; Jan. 16; Sp. p. 4474; Gaz. vol. 174; p. 753.
Weber, George W., assignor to American Can Company, New York, N. Y. Sardine-can. No. 1,030,358; June 25; Sp. p. 5014; Gaz. vol. 179; p. 894.
Weber, George W., assignor to American Can Company, New York, N. Y. Sardine-can cover. No. 1,030,359; June 25; Sp. p. 5016; Gaz. vol. 179; p. 894.
Weber, Henry, assignor to Latham Machinery Company, Chicago, Ill. Work-supporting table for staple forming and driving machines and the like. No. 1,046,695; Dec. 10; Gaz. vol. 185; p. 352.
Weber, Henry E., assignor to The Weber Dental Manufacturing Company, Canton, Ohio. Cuspidor. (Reissue.) No. 13,388; Mar. 19; Sp. p. 4150; Gaz. vol. 176; p. 725.
Weber, Herman, Colorado Springs, Colo. Tool for centering sprockets upon vehicle-wheels. No. 1,013,911; Jan. 9; Sp. p. 1836; Gaz. vol. 174; p. 314.
Weber, Jacob, and J. E. Hampson, Newark, N. J. Pipe-cleansing device. No. 1,049,012; Dec. 31; Gaz. vol. 185; p. 1248.
Weber, Josef, Essen-on-the-Ruhr, Germany. Manufacturing anhydrids of fatty acids. No. 1,018,733; Feb. 27; Sp. p. 5565; Gaz. vol. 175; p. 963.
Weber, Josef, assignor to T. Goldschmidt, Essen-on-the-Ruhr, Germany. Treating tin-bearing material. No. 1,018,734; Feb. 27; Sp. p. 5567; Gaz. vol. 175; p. 963.
Weber, Karl. (See Weber, Oskar H. and K.)
Weber, Lewis F., Frankfort-on-the-Main, and P. Beier, Rödelheim-Frankfort, Germany, assignors to United Shoe Machinery Company, Paterson, N. J. Crimping-machine. No. 1,048,612; Dec. 31; Gaz. vol. 185; p. 1108.
Weber, Oskar H. and K., Griesheim, assignors to Corporation of Chemische Fabrik Griesheim Elektron, Frankfort-on-the-Main, O. Dieffenbach and W. Moldenhauer, Darmstadt, Germany. Process and furnace for producing gas reactions. No. 1,042,179; Oct. 22; Gaz. vol. 183; p. 947.
Weber, Otto, Reinickendorf, near Berlin, assignor to Berliner Siriuslampen Vertriebsgesellschaft m. b. H., Berlin, Germany. Supporting incandescent electric lamps and reflectors. No. 1,014,681; Jan. 16; Sp. p. 3557; Gaz. vol. 174; p. 608.
Weber, Otto, Reinickendorf, near Berlin, assignor to Berliner Siriuslampen Vertriebsgesellschaft m. b. H., Berlin, Germany. Attachment of incandescent electric lamps. No. 1,031,976; July 9; Gaz. vol. 180; p. 433.
Weber, Otto C., Mullica township, Atlantic county, N. J. Berry-picker. No. 1,023,697; Apr. 16; Sp. p. 4097; Gaz. vol. 177; p. 719.
Weber, Peter. (See Dyer and Weber.)
Weber, Peter, Orange, assignor, by mesne assignments, to Thomas A. Edison, Incorporated, West Orange, N. J. Phonograph. No. 1,041,922; Oct. 22; Gaz. vol. 183; p. 862.
Weber, Reinhold H., Athens, Ohio, assignor to The Jeffrey Manufacturing Company. Mine-post. No. 1,046,517; Dec. 10; Gaz. vol. 185; p. 289.
Webner, Frank E., Norwood, assignor to The American Mechanical Calculator Company, Cincinnati, Ohio. Mechanical calculator. No. 1,026,064; May 14; Sp. p. 2138; Gaz. vol. 178; p. 364.
Webster, Carroll J., Lynn, Mass., assignor to General Electric Company. Centrifugal switch. No. 1,022,904; Apr. 9; Sp. p. 2461; Gaz. vol. 177; p. 418.
Webster, Charles H., Thomaston, Me. Foot-rest for shovels, spades, &c. No. 1,042,180; Oct. 22; Gaz. vol. 183; p. 947.
Webster, Chester V. (See Webster, Edward W. and C. V.)
Webster, Edgar P., Bridgeport, Conn. Pencil-sharpening machine. No. 1,018,536; Feb. 27; Sp. p. 5157; Gaz. vol. 175; p. 897.
Webster, Edgar P., Bridgeport, Conn. Pencil-sharpening machine. No. 1,040,069; Oct. 1; Gaz. vol. 183; p. 133.
Webster, Edward W. and C. V., Dubois, Pa. Ball-cock valve. No. 1,047,596; Dec. 17; Gaz. vol. 185; p. 697.
Webster, Edwin A., Groveland, assignor to Haverhill Shoe Machinery Co., Haverhill, Mass. Sole-channeling machine. No. 1,028,509; June 4; Sp. p. 982; Gaz. vol. 179; p. 148.
Webster, George L., Midlothian, Tex. Toy. No. 1,023,698; Apr. 16; Sp. p. 4099; Gaz. vol. 177; p. 719.
Webster, Harold W. (See Moulden and Webster.)
Webster, Harry G., Chicago, Ill., assignor, by mesne assignments, to Kellogg Switchboard & Supply Company. Telephone-exchange system. No. 1,022,522; Apr. 9; Sp. p. 1619; Gaz. vol. 177; p. 288.
Webster, Harry G., Chicago, Ill., assignor, by mesne assignments, to Kellogg Switchboard & Supply Company. Telephone-exchange system. No. 1,023,185; Apr. 16; Sp. p. 3101; Gaz. vol. 177; p. 555.
Webster, Harry G., Chicago, Ill., assignor, by mesne assignments, to Kellogg Switchboard & Supply Company. Telephone system. No. 1,023,900; Apr. 23; Sp. p. 4565; Gaz. vol. 177; p. 814.
Webster, Harry G., Chicago, Ill., assignor, by mesne assignments, to Kellogg Switchboard and Supply Company. Combined telephone and alarm system. No. 1,025,347; May 7; Sp. p. 531; Gaz. vol. 178; p. 83.
Webster, Harry G., Chicago, Ill., assignor, by mesne assignments, to Kellogg Switchboard & Supply Company. Telephone system. No. 1,038,037; Sept. 10; Gaz. vol. 182; p. 322.
Webster, Harry G., Chicago, Ill., assignor, by mesne assignments, to Kellogg Switchboard & Supply Company. Telephone system. No. 1,038,997; Sept. 17; Gaz. vol. 182; p. 685.
Webster, Harry S., Toledo, Ohio. Polishing-cloth. No. 1,038,694; Sept. 17; Gaz. vol. 182; p. 581.
Webster, Ira J., *et al.* (See Chase, Milton, assignor.)
Webster, James, assignor to Chicago Coach & Carriage Co., Chicago, Ill. Wind-shield. No. 1,023,901; Apr. 23; Sp. p. 4570; Gaz. vol. 177; p. 815.
Webster, James M., assignor to J. C. Allen and T. Wynn, Bloomington, Ill. Fire-escape ladder. No. 1,031,496; July 2; Gaz. vol. 180; p. 226.
Webster, John B., San Jose, Cal. Devotional chair. No. 1,025,348; May 7; Sp. p. 538; Gaz. vol. 178; p. 84.
Webster, John E., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electric locomotive. No. 1,017,122; Feb. 13; Sp. p. 1989; Gaz. vol. 175; p. 342.
Webster, Maurice H., Evanston, Ill. Aeroplane. No. 1,034,544; Aug. 6; Gaz. vol. 181; p. 48.
Webster, Merton N. (See Munson and Webster.)
Webster, Thomas P., Brandywine Summit, Pa. Exhaust-nozzle. No. 1,031,748; July 9; Gaz. vol. 180; p. 355.
Webster, William, Berkeley, Cal. Adjustable hinge. No. 1,043,489; Nov. 5; Gaz. vol. 184; p. 160.
Webster, William A., Galesburg, Ill. Gate-hinge member. No. 1,019,389; Mar. 5; Sp. p. 901; Gaz. vol. 176; p. 133.

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Webster, William J., and R. Noall, Bisbee, Ariz. Spring-trap. No. 1,017,123; Feb. 13; Sp. p. 1991; Gaz. vol. 175; p. 342.
Webster, William R., Philadelphia, Pa. Safety starting means for explosive-engines. No. 1,044,315; Nov. 12; Gaz. vol. 184; p. 474.
Webster, Willis C., J. I. Lacy, Dubois, and E. A. Lacy, Galeton, Pa., assignors to Buffalo Air Brake Co., Buffalo, N. Y. Triple valve. No. 1,040,070; Oct. 1; Gaz. vol. 183; p. 134.
Wechsler, Marcus, Kensington, assignor to Gillman and Spencer (1902) Limited, London, England. Producing organic coloring-matter. No. 1,031,602; July 2; Gaz. vol. 180; p. 261.
Weck. Gesellschaft mit beschränkter Hafting, I. (See Op de Hipt, Hermann, assignor.)
Weckbaugh, Joseph V., Denver, Colo. Pocket-knife. No. 1,029,564; June 11; Sp. p. 3238; Gaz. vol. 179; p. 543.
Weckesser, Oscar H., Ross township, Allegheny county, Pa. Tire for automobiles. No. 1,024,382; Apr. 23; Sp. p. 5578; Gaz. vol. 177; p. 978.
Weddell, Oliver S., McKeesport, Pa. Switch-throwing device. No. 1,026,726; May 21; Sp. p. 3600; Gaz. vol. 178; p. 625.
Weddington, William H., Lankershim, Cal. Rotary pump. No. 1,027,091; May 21; Sp. p. 4470; Gaz. vol. 178; p. 754.
Wedge, Utley, Ardmore, Pa. Pump for corrosive fluids. No. 1,027,947; May 28; Sp. p. 6274; Gaz. vol. 178; p. 1078.
Wedge, Utley, Ardmore, Pa. Treating furnace-gases. No. 1,039,464; Sept. 24; Gaz. vol. 182; p. 862.
Wedge, Utley, Ardmore, Pa. Treating furnace-gases. No. 1,046,915; Dec. 10; Gaz. vol. 185; p. 428.
Wedge, Utley, Ardmore, assignor to The Furnace Patent Company, Philadelphia, Pa. Securing rabble-arms of roasting-furnaces. No. 1,037,091; Aug. 27; Gaz. vol. 181; p. 1013.
Wedge, Utley, Ardmore, assignor to The Furnace Patent Company, Philadelphia, Pa. Metallurgical furnace. No. 1,040,071; Oct. 1; Gaz. vol. 183; p. 134.
Wedge, Utley, Ardmore, assignor to The Furnace Patent Company, Philadelphia, Pa. Recovering copper from compounds containing the same. No. 1,043,490; Nov. 5; Gaz. vol. 184; p. 160.
Wedgworth, John K., Cuba, Ala. Adjustable cultivator. No. 1,039,856; Oct. 1; Gaz. vol. 183; p. 63.
Weed Chain Tire Grip Company. (See Strong, Frederick A., assignor.)
Weed, Chester A. (See Penney and Weed.)
Weed, David W., assignor to Eagle Lock Co., Terryville, Conn. Night-latch. No. 1,017,238; Feb. 13; Sp. p. 2250; Gaz. vol. 175; p. 383.
Weed, David W., assignor to Eagle Lock Co., Terryville, Conn. Night-latch. No. 1,042,062; Oct. 22; Gaz. vol. 183; p. 908.
Weed, Howard L., Los Angeles, Cal. Rotary machine. No. 1,024,166; Apr. 23; Sp. p. 5157; Gaz. vol. 177; p. 906.
Weeden, Arthur W., Somerville, Mass. Valve for intermingling and controlling fluids. No. 1,016,382; Feb. 6; Sp. p. 319; Gaz. vol. 175; p. 50.
Weedman, George H. (See Lee and Weedman.)
Weekes, William E., Ashton, Idaho. Rail-joint. No. 1,030,695; June 25; Sp. p. 5939; Gaz. vol. 179; p. 1015.
Weeks, Charles A., Philadelphia, Pa. Electric furnace. No. 1,034,747; Aug. 6; Gaz. vol. 181; p. 116.
Weeks, Charles A., Philadelphia, Pa. Recovery of sulfuric acid and iron oxid from ferrous-sulfate sludge. No. 1,048,247; Dec. 24; Gaz. vol. 185; p. 944.
Weeks, Charles A., Philadelphia, Pa., assignor to The Rail Joint Company, New York, N. Y. Molding rail-joint castings. No. 1,019,706; Mar. 5; Sp. p. 1514; Gaz. vol. 176; p. 235.
Weeks, Charles S., Pittsburgh, Pa. Cold-heading machine. No. 1,024,046; Apr. 23; Sp. p. 4879; Gaz. vol. 177; p. 865.
Weeks, Charlie E., Sacramento, assignor of one-half to F. F. Krantz, Represa, Cal. Faucet, cock, or the like. 1,027,678; May 28; Sp. p. 5664; Gaz. vol. 178; p. 987.
Weeks, Frank A., Plainfield, N. J. Memorandum-pad calendar. No. 1,041,923; Oct. 22; Gaz. vol. 183; p. 863.
Weeks, Harry G. (See Parkhurst and Weeks.)
Weeks, Merton E., Lake Benton, Minn. Machine for loading grain-shocks. No. 1,022,214; Apr. 2; Sp. p. 978; Gaz. vol. 177; p. 157.
Weeks, Nelson, New York, N. Y., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Plural lamp-socket. No. 1,043,179; Nov. 5; Gaz. vol. 184; p. 48.
Weeks, Ollie, Rapid City, S. D. Portable clothes-receptacle. No. 1,046,354; Dec. 3; Gaz. vol. 185; p. 193.
Weeks, Paul, Los Angeles, Cal. Fluid-clutch. No. 1,021,282; Mar. 26; Sp. p. 4836; Gaz. vol. 176; p. 882.
Weeks, William C., Vancouver, British Columbia, Canada. Drag-bucket. No. 1,016,860; Feb. 6; Sp. p. 1384; Gaz. vol. 175; p. 214.
Weeks, William H., New York, N. Y. Electric sign. No. 1,025,892; May 7; Sp. p. 1760; Gaz. vol. 178; p. 270.
Weelands, William A., and E. Williams, assignors to Adams & Elting Company, Chicago, Ill. Size. No. 1,015,365; Jan. 23; Sp. p. 5027; Gaz. vol. 174; p. 868.
Weer, Edward C., Franklin, and H. F. Tansey, Dayton, Ohio. Track instrument. No. 1,020,238; Mar. 12; Sp. p. 2630; Gaz. vol. 176; p. 446.
Weertz, Max, Bradford, England. Lamp for matching colors by artificial light. No. 1,015,721; Jan. 23; Sp. p. 5800; Gaz. vol. 174; p. 989.
Wefing, Otto, Ilmenau, Germany. Machine for cutting meat, lard, and the like by means of flat rotating knives. No. 1,028,510; June 4; Sp. p. 984; Gaz. vol. 179; p. 148.
Wefing, Otto, Ilmenau, Germany. Feed device for meat cutting or mincing machines. No. 1,032,258; July 9; Gaz. vol. 180; p. 528.
Wege, Peter M., Marietta, Ohio. Walled sheet-metal structure. No. 1,017,354; Feb. 13; Sp. p. 2486; Gaz. vol. 175; p. 422.
Wege, Peter M., assignor to The Safe Cabinet Company, Marietta, Ohio. Combined shelf and partition. No. 1,038,038; Sept. 10; Gaz. vol. 182; p. 323.
Wegefarth, Arthur. (See Stineman, William H. H., assignor.)
Wegener, Franz, Halle, Germany. Hand-rammer. No. 1,026,891; May 21; Sp. p. 3971; Gaz. vol. 178; p. 683.
Wegener, Franz, Halle-on-the-Saale, Germany. Hand-rammer. No. 1,038,039; Sept. 10; Gaz. vol. 182; p. 323.
Weger, Bernard J. (See Herman and Weger.)
Wegerich, Karl, Dingelstädt, Germany. Frame for sets of millstones, mills, and the like. No. 1,037,813; Sept. 3; Gaz. vol. 182; p. 211.
Wegmann-Eggmann, Erhard, Ennetbaden, near Baden, Switzerland. Ice-creeper. No. 1,023,603; Apr. 16; Sp. p. 3935; Gaz. vol. 177; p. 691.
Wegmann, Heinrich, Bochum, Germany. Safety-lock. No. 1,041,388; Oct. 15; Gaz. vol. 183; p. 645.
Wegner, Amelia C., *et al.* (See Wegner, Charles H., assignor.)
Wegner, Charles H., assignor of one-third to H. F. Sleepack and one-third to A. C. Wegner, Baltimore, Md. Device for operating double doors. No. 1,046,916; Dec. 10; Gaz. vol. 185; p. 428.
Wegner, Charles H., assignor of one-third to H. F. Sleepack and one-third to A. C. Wegner, Baltimore, Md. Fender. No. 1,046,917; Dec. 10; Gaz. vol. 185; p. 428.
Wegner, Fred, Fairport, N. Y. Can-heading machine. No. 1,025,173; May 7; Sp. p. 141; Gaz. vol. 178; p. 24.
Wegner, Fred, and J. Peters, assignors to Sanitary Can Company, Fairport, N. Y. Automatic feed device for can-heads or other articles. No. 1,013,344; Jan. 2; Sp. p. 571; Gaz. vol. 174; p. 90.
Wegner, Lewis E., assignor of one-fourth to J. Gilson, Nebraska City, Nebr. Electric igniter for explosive-engines. No. 1,022,990; Apr. 9; Sp. p. 2636; Gaz. vol. 177; p. 449.
Wehinger, Frederick, assignor to Waterbury Clock Co., Waterbury, Conn. Winding mechanism for watches. No. 1,046,041; Dec. 3; Gaz. vol. 185; p. 83.
Wehmiller, William, Clarinda, Iowa. Hay-rack. No. 1,023,902; Apr. 23; Sp. p. 4572; Gaz. vol. 177; p. 815.
Wehner, Herman E. (See Sauter and Wehner.)
Wehr, Albert H., Mount Washington, Md. Sewage-disposal plant. No. 1,027,948; May 28; Sp. p. 6275; Gaz. vol. 178; p. 1078.
Wehr, George F., Rochester, assignor to Phoenix Glass Company, Pittsburgh, Pa. Lamp. No. 1,040,072; Oct. 1; Gaz. vol. 183; p. 135.
Wehrenberg, William H., West Salem, Wis. Oil or grease gun. No. 1,040,476; Oct. 8; Gaz. vol. 183; p. 300.
Wehrlin, Harry, Steglitz, near Berlin, Germany. Treating the anode-mud resulting from electrolytic refining. No. 1,049,013; Dec. 31; Gaz. vol. 185; p. 1248.
Weiberg, Conrad L., Detroit, Mich. Extracting vegetable fiber. No. 1,025,435; May 7; Sp. p. 718; Gaz. vol. 178; p. 114.
Weichselderfer, Wenzel, Potlatch, Idaho. Conveyer-cleat. No. 1,020,863; Mar. 19; Sp. p. 3967; Gaz. vol. 176; p. 691.
Weicker, William H., Providence, R. I., assignor, by mesne assignments, to General Electric Company. Controller mechanism for turbines. No. 1,021,223; Mar. 26; Sp. p. 4708; Gaz. vol. 176; p. 862.
Weickman, Albert, New York, N. Y. Spring-frame for cushion-seats. No. 1,027,949; May 28; Sp. p. 6276; Gaz. vol. 178; p. 1079.
Weide, Gustave, Sr., St. Paul, Minn. Decorator's stencil-holder. No. 1,030,498; June 25; Sp. p. 5327; Gaz. vol. 179; p. 943.
Weidemann, Paulina. (See Meyer, Adolph, assignor.)
Weidenhammer, George C., St. Paul, Minn. Grater. No. 1,033,642; July 23; Gaz. vol. 180; p. 1077.
Weidlog, Carl B. F., Shelton, assignor to T. Weidlog, Derby, Conn. Safety hat-pin. No. 1,020,938; Mar. 19; Sp. p. 4093; Gaz. vol. 176; p. 715.
Weidlog, Theika. (See Weidlog, Carl B. F., assignor.)
Weidman, Benjamin T., Ellsworth, Kans. Pool and billiard cue. No. 1,042,299; Oct. 22; Gaz. vol. 183; p. 986.
Weidman, U. Grant, Knightstown, Ind. Spring-wheel. No. 1,039,857; Oct. 1; Gaz. vol. 183; p. 63.
Weidmann, Gottfried, Zollikon, near Zürich, Switzerland. Nozzle for apparatus for exhausting, propelling, and inducing currents in fluids. No. 1,039,231; Sept. 24; Gaz. vol. 182; p. 781.

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Weidmann Silk Dyeing Co. (See Schnurrenberger, Emil, assignor.)
Weier, Anton G., Chicago, Ill. Overflow-alarm. No. 1,034,666; Aug. 6; Gaz. vol. 181; p. 87.
Weier, John J. (See Smith and Weier.)
Weigand, Andrew, Malvern, Ohio. Pipe-wrench. No. 1,034,047; July 30; Gaz. vol. 180; p. 1243.
Weigel, Adolf, Nuremberg, Germany. Moving toy. No. 1,017,066; Feb. 13; Sp. p. 1856; Gaz. vol. 175; p. 322.
Weigel, Arnold A., assignor to E. S. Woods, Chicago, Ill. Antifriction-bearing. No. 1,041,209; Oct. 15; Gaz. vol. 183; p. 585.
Weigel, Charles. (See Franks, Charles J., assignor.)
Weigel, John. (See Storer, Albert, assignor.)
Weigel, Joseph, Flandreau, S. D. Ensilage-harvester. No. 1,021,855; Apr. 2; Sp. p. 223; Gaz. vol. 177; p. 37.
Weigt, Anna B. E., administratrix. (See Ruecker, Carl A.)
Weigt, Hermann. (See Ruecker, Carl A., assignor.)
Weihe, Wilhelm, Allenstein, Germany. Cableway arrangement for dumping-mounds or the like. No. 1,023,536; Apr. 16; Sp. p. 3783; Gaz. vol. 177; p. 669.
Weikel, Roy B., Milton, Pa. Toy. No. 1,040,073; Oct. 1; Gaz. vol. 183; p. 135.
Weil, Arthur J. (See Meckfessel and Weil.)
Weil, Emanuel S., *et al.* (See Rose, Max C., assignor.)
Weil, Emile, New Orleans, La. Pneumatic tire. No. 1,034,748; Aug. 6; Gaz. vol. 181; p. 116.
Weil, John, Mansfield, Ohio. Automatic telephone instrument. No. 1,018,646; Feb. 27; Sp. p. 5390; Gaz. vol. 175; p. 934.
Weil, Julius E., Chicago, Ill. Waterproof garment. No. 1,025,893; May 7; Sp. p. 1761; Gaz. vol. 178; p. 270.
Weil, Leopold. (See Mayer and Weil.)
Weil, Victor, Chicago, Ill. Insole. No. 1,040,597; Oct. 8; Gaz. vol. 183; p. 344.
Weil, William A., Findlay, assignor of one-half to J. W. Grant, Uniontown, Ohio. Automatic air-hose coupling. No. 1,047,352; Dec. 17; Gaz. vol. 185; p. 612.
Weiland, Alfred, Reading, Pa. Carbureter. No. 1,013,708; Jan. 2; Sp. p. 1366; Gaz. vol. 174; p. 213.
Weiler, Max, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Dye. No. 1,023,977; Apr. 23; Sp. p. 4734; Gaz. vol. 177; p. 840.
Weiler, Max, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Red-violet triphenylmethane dye. No. 1,034,173; July 30; Gaz. vol. 180; p. 1286.
Weiler, Max, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Triphenylmethane dye. No. 1,044,836; Nov. 19; Gaz. vol. 184; p. 685.
Weiler, Nicholas, assignor of one-half to B. L. Shrader, Fort Collins, Colo. Gang-plow. No. 1,014,987; Jan. 16; Sp. p. 4236; Gaz. vol. 174; p. 713.
Weiler, Nicholas, Fort Collins, Colo., assignor of one-half to B. L. Shrader, Plainview, Tex. Wheeled gang-plow. No. 1,035,126; Aug. 6; Gaz. vol. 181; p. 241.
Weiler, Nicholas, Canton, Ill., assignor of one-half to B. L. Shrader, Fort Collins, Colo. Gage device for plows. No. 1,019,729; Mar. 5; Sp. p. 1563; Gaz. vol. 176; p. 243.
Weiler, Nicholas, Canton, Ill., assignor of one-half to B. L. Shrader, Plainville, Tex. Draft device for wheeled gang-plows. No. 1,042,733; Oct. 29; Gaz. vol. 183; p. 1166.
Weill, Harry, *et al.* (See Stein, Georg V., assignor.)
Weimar, Louis, Appleton, Wis. Revolving drag. No. 1,031,894; July 9; Gaz. vol. 180; p. 406.
Weimer, Rudolph, Sheboygan, Wis. Receptacle-closure and cup. No. 1,013,830; Jan. 2; Sp. p. 1611; Gaz. vol. 174; p. 257.
Wein, Adolph, New York, N. Y. Dress-weight tape. No. 1,024,957; Apr. 30; Sp. p. 6917; Gaz. vol. 177; p. 1215.
Weinberg, Ludwig, Schöneberg, near Berlin, Germany. Display-sign. No. 1,046,042; Dec. 3; Gaz. vol. 185; p. 84.
Weinberg, Robert, *et al.* (See Eytalis, Charles, assignor.)
Weindel, Anton, Leverkusen, near Cologne, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Producing condensation products from phenols with formic aldehyde. No. 1,039,858; Oct. 1; Gaz. vol. 183; p. 64.
Weindel, Anton, Leverkusen, near Cologne, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Producing condensation products from phenols with formic aldehyde. No. 1,039,859; Oct. 1; Gaz. vol. 183; p. 64.
Weinerth, George S., Reading, Pa. Floating-thread cutter. No. 1,038,695; Sept. 17; Gaz. vol. 182; p. 581.
Weinfeld, Ludwig, Vienna, Austria-Hungary. Threshing-machine. No. 1,014,189; Jan. 9; Sp. p. 2433; Gaz. vol. 174; p. 408.
Weinfeld, Ludwig, Budapest, Austria-Hungary. Threshing-machine. No. 1,015,749; Jan. 23; Sp. p. 5857; Gaz. vol. 174; p. 998.
Weinmann, Louis E., New York, N. Y. Convertible bed and davenport. No. 1,031,304; July 2; Gaz. vol. 180; p. 161.
Weinstein, Daniel, San Francisco, Cal. Spool-holder. No. 1,043,491; Nov. 5; Gaz. vol. 184; p. 160.
Weinstein, Morris B., Steubenville, Ohio. Bag-fastener. No. 1,032,456; July 16; Gaz. vol. 180; p. 639.
Weintraub, Ezechiel, Lynn, Mass., assignor to General Electric Company. Electrical resistance. No. 1,019,390; Mar. 5; Sp. p. 903; Gaz. vol. 176; p. 133.
Weintraub, Ezechiel, Lynn, Mass., assignor to General Electric Company. Boronized conductor and manufacture. No. 1,019,391; Mar. 5; Sp. p. 904; Gaz. vol. 176; p. 133.
Weintraub, Ezechiel, Lynn, Mass., assignor to General Electric Company. Electric furnace method and apparatus. No. 1,019,392; Mar. 5; Sp. p. 906; Gaz. vol. 176; p. 133.
Weintraub, Ezechiel, Lynn, Mass., assignor to General Electric Company. Boron-carbon alloy. No. 1,019,393; Mar. 5; Sp. p. 909; Gaz. vol. 176; p. 134.
Weintraub, Ezechiel, Lynn, Mass., assignor to General Electric Company. Reduction of chemical compounds. No. 1,019,394; Mar. 5; Sp. p. 910; Gaz. vol. 176; p. 134.
Weintraub, Ezechiel, Lynn, Mass., assignor to General Electric Company. Making resistance material. No. 1,019,568; Mar. 5; Sp. p. 1268; Gaz. vol. 176; p. 190.
Weintraub, Ezechiel, Lynn, Mass., assignor to General Electric Company. Making boron and boron alloys. No. 1,019,569; Mar. 5; Sp. p. 1270; Gaz. vol. 176; p. 190.
Weintraub, Ezechiel, Lynn, Mass., assignor to General Electric Company. Vapor electric device. No. 1,022,010; Apr. 2; Sp. p. 559; Gaz. vol. 177; p. 88.
Weintraub, Ezechiel, Lynn, Mass., assignor to General Electric Company. Metal casting. No. 1,023,604; Apr. 16; Sp. p. 3936; Gaz. vol. 177; p. 691.
Weintraub, Ezechiel, Lynn, Mass., assignor to General Electric Company. Non-consuming arc-lamp electrode. No. 1,027,162; May 21; Sp. p. 4619; Gaz. vol. 178; p. 775.
Weintraub, Ezechiel, Lynn, Mass., assignor to General Electric Company. Vacuum apparatus. No. 1,037,379; Sept. 3; Gaz. vol. 182; p. 68.
Weintraub, Ezechiel, Lynn, Mass., assignor to General Electric Company. Method and apparatus for reducing chemical compounds. No. 1,046,043; Dec. 3; Gaz. vol. 185; p. 84.
Weintraub, Ezechiel, Schenectady, N. Y., assignor to General Electric Company. Electric-arc lamp. No. 1,022,009; Apr. 2; Sp. p. 557; Gaz. vol. 177; p. 87.
Weintraub, Ezechiel, Schenectady, N. Y., and M. C. A. Latour, Paris, France, assignors to General Electric Company. Amplifying current variations. No. 1,041,210; Oct. 15; Gaz. vol. 183; p. 586.
Weintraub, George, Lynn, Mass., assignor to General Electric Company. Obtaining titanic oxid. No. 1,014,793; Jan. 16; Sp. p. 3795; Gaz. vol. 174; p. 645.
Weintraub, George, Lynn, Mass., assignor to General Electric Company. Refractory article. No. 1,022,011; Apr. 2; Sp. p. 561; Gaz. vol. 177; p. 88.
Weinzierl, Joseph T., and J. Sturtevant, New Kensington, Pa. Safety starting-crank for explosive-engines. No. 1,040,598; Oct. 8; Gaz. vol. 183; p. 345.
Weir, Andrew H., and C. H. Smith, Eaton, Ohio. Window-shade bracket. No. 1,020,528; Mar. 19; Sp. p. 3224; Gaz. vol. 176; p. 577.
Weir, Bertha M., Coalinga, Cal. Shoe. No. 1,018,145; Feb. 20; Sp. p. 4264; Gaz. vol. 175; p. 732.
Weir, David, Hartford, Conn. Chuck. No. 1,022,166; Apr. 2; Sp. p. 878; Gaz. vol. 177; p. 139.
Weir, John, Scotstown, assignor of one-half to A. N. Low, Patrick, Scotland. Hatchway-cover. No. 1,013,912; Jan. 9; Sp. p. 1837; Gaz. vol. 174; p. 314.
Weir, John M., *et al.* (See Fitzgerald, John J., assignor.)
Weir, Robert T., *et al.* (See Fitzgerald, John J., assignor.)
Weir Stove Company. (See Babbitt, Rollin H., Jr., assignor.)
Weir, William, Cathcart, Glasgow, Scotland. Sea-water evaporator. No. 1,049,014; Dec. 31; Gaz. vol. 185; p. 1249.
Weirbach, Henry T., Allentown, Pa. Cutter-head. No. 1,014,794; Jan. 16; Sp. p. 3796; Gaz. vol. 174; p. 645.
Weirich, Clarence A., Canton, Ohio. Sheet-metal tile. No. 1,041,924; Oct. 22; Gaz. vol. 183; p. 863.
Weis, Alwin W. D., Waterloo, and J. Starman, Cedar Rapids, Iowa. Cell-case interlocker No. 1,021,958; Apr. 2; Sp. p. 444; Gaz. vol. 177; p. 71.
Weis, Andrew L., assignor to The Weis Manufacturing Company, Monroe, Mich. Frame. No. 1,026,838; May 21; Sp. p. 3848; Gaz. vol. 178; p. 665.
Weis, John P., Nyack, N. Y. Presser-foot for sewing-machines. No. 1,016,462; Feb. 6; Sp. p. 516; Gaz. vol. 175; p. 80.
Weis, John P., Nyack, assignor to L. N. Littauer, Gloversville, N. Y. Trimming mechanism for sewing-machines. No. 1,016,590; Feb. 6; Sp. p. 825; Gaz. vol. 175; p. 123.
Weis, John P., Nyack, assignor to L. N. Littauer, Gloversville, N. Y. Sewing-machine. No. 1,026,839; May 21; Sp. p. 3849; Gaz. vol. 178; p. 665.
Weis, John P., assignor to Metropolitan Sewing Machine Company, Nyack, N. Y. Trimming mechanism for sewing-machines. No. 1,025,552; May 7; Sp. p. 1001; Gaz. vol. 178; p. 155.

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Weis, John P., Brooklyn, N. Y., assignor, by mesne assignments, to Metropolitan Sewing Machine Company. Machine for making edgings. No. 1,018,796; Feb. 27; Sp. p. 5700; Gaz. vol. 175; p. 985.
Weis, John P., Brooklyn, N. Y., assignor, by mesne assignments, to Metropolitan Sewing Machine Company. Overedging-machine. No. 1,018,797; Feb. 27; Sp. p. 5705; Gaz. vol. 175; p. 986.
Weis, John P., and L. Krug, assignors to Metropolitan Sewing Machine Company, Nyack, N. Y. Folder for sewing-machines. No. 1,040,825; Oct. 8; Gaz. vol. 183; p. 423.
Weis, Joseph W. (See Knoerzer and Weis.)
Weis Manufacturing Company, The. (See Weis, Andrew L., assignor.)
Weis Manufacturing Company, The. (See Weis, William C., assignor.)
Weis, William, Perham, Minn. Side carrier. No. 1,031,749; July 9; Gaz. vol. 180; p. 355.
Weis, William C., assignor to The Weis Manufacturing Company, Monroe, Mich. File box or drawer. No. 1,030,625; June 25; Sp. p. 5768; Gaz. vol. 179; p. 991.
Weisbaum, Edward J., Newport, Ky. Shirt. No. 1,046,128; Dec. 3; Gaz. vol. 185; p. 114.
Weisberger, Samuel, Barberton, Ohio. Display-fixture. No. 1,025,349; May 7; Sp. p. 539; Gaz. vol. 178; p. 84.
Weisbrod, Jacob H., St. Louis, Mo. Car-roof. No. 1,023,230; Apr. 16; Sp. p. 3181; Gaz. vol. 177; p. 569.
Weisbrod, Jacob H., assignor to American Car and Foundry Company, St. Louis, Mo. Car-underframe. No. 1,021,856; Apr. 2; Sp. p. 227; Gaz. vol. 177; p. 37.
Weisbrod, Jacob H., assignor to American Car and Foundry Company, St. Louis, Mo. Box-car-wall construction. No. 1,047,597; Dec. 17; Gaz. vol. 185; p. 698.
Weiscopf, Leopold, New York, N. Y. Cleaning and sterilizing machine. No. 1,040,477; Oct. 8; Gaz. vol. 183; p. 300.
Weise, Julius, Wiesbaden, assignor to R. Koepp & Co., Oestrich-on-the-Rhine, Germany. Preparation of formic acid from the reaction mixture of formates and mineral acid. No. 1,043,985; Nov. 12; Gaz. vol. 184; p. 362.
Weisenborn, George P. A., Houston, Tex. Plant-blocker. No. 1,025,223; May 7; Sp. p. 250; Gaz. vol. 178; p. 42.
Weisenfeld, Max, Munich, Germany. Malt-turning implement. No. 1,034,545; Aug. 6; Gaz. vol. 181; p. 48.
Weiser, Orville T., assignor to S. Lubin, Philadelphia, Pa. Moving-picture-projecting machine. No. 1,031,750; July 9; Gaz. vol. 180; p. 355.
Weishampel, James H., Baltimore, Md. Envelop. No. 1,035,284; Aug. 13; Gaz. vol. 181; p. 327.
Weishaus, Moritz, Berlin, Germany. Splitting whalebone by hand. No. 1,039,860; Oct. 1; Gaz. vol. 183; p. 64.
Weislowits, Edward, Newark, N. J., and M. Reich, New York, N. Y.; said Reich assignor to said Weislowits. Shipping-case for cans. No. 1,033,643; July 23; Gaz. vol. 180; p. 1077.
Weismann, Arnold, *et al.* (See Walters, Gustave, assignor.)
Weismann, James H., Stillwater, Okla. Watchmaker's tool. No. 1,024,383; Apr. 23; Sp. p. 5580; Gaz. vol. 177; p. 979.
Weiss, Albert T., assignor to Yawman & Erbe Manufacturing Company, Rochester, N. Y. Labeling-machine. No. 1,029,900; June 18; Sp. p. 4001; Gaz. vol. 179; p. 696.
Weiss, Albert T., assignor to The Yawman & Erbe Manufacturing Company, Rochester, N. Y. Locking mechanism for drawers for filing-cabinets. No. 1,031,751; July 9; Gaz. vol. 180; p. 356.
Weiss, Alfred H., Wilmette, assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Automatic ringing system. No. 1,029,649; June 18; Sp. p. 3412; Gaz. vol. 179; p. 608.
Weiss, Alfred H., Wilmette, assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Automatic ringing system. No. 1,030,037; June 18; Sp. p. 4281; Gaz. vol. 179; p. 742.
Weiss, Alfred H., Wilmette, assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Automatic ringing system. No. 1,030,038; June 18; Sp. p. 4286; Gaz. vol. 179; p. 742.
Weiss, Alfred H., Wilmette, assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Automatic ringing system. No. 1,030,039; June 18; Sp. p. 4292; Gaz. vol. 179; p. 743.
Weiss, Alfred H., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Telephone system. No. 1,033,135; July 23; Gaz. vol. 180; p. 908.
Weiss, Arthur J., West Orange, N. J., assignor, by mesne assignments, to Maxi Company. Carbureter. No. 1,038,040; Sept. 10; Gaz. vol. 182; p. 323.
Weiss, Charles and G., Glendale, N. Y. Hat-retaining device. No. 1,048,114; Dec. 24; Gaz. vol. 185; p. 901.
Weiss, Fritz, Pforzheim, Germany. Making cup-shaped articles. No. 1,042,300; Oct. 22; Gaz. vol. 183; p. 986.
Weiss, George, assignor of one-third to J. H. McElroy, Chicago, Ill. Bottle-cleaning machine. No. 1,037,380; Sept. 3; Gaz. vol. 182; p. 68.
Weiss, George F., Springfield, Ill. Switch throwing and locking mechanism. No. 1,026,618; May 14; Sp. p. 3339; Gaz. vol. 178; p. 551.
Weiss, George W. (See Loewy, Edwin J., assignor.)
Weiss, Gustave. (See Weiss, Charles and G.)
Weiss, Henry W., Quakertown, Pa. Fender for cars or other vehicles. No. 1,022,905; Apr. 9; Sp. p. 2462; Gaz. vol. 177; p. 419.
Weiss, John. (See Kessler and Weiss.)
Weiss, Louis T., Jr., New York, N. Y. Self-starting device for internal-combustion engines. No. 1,023,903; Apr. 23; Sp. p. 4575; Gaz. vol. 177; p. 815.
Weiss, Ludwig. (See Lesmüller, August, assignor.)
Weiss, Marcelino, Habana, Cuba. Artificial-teeth articulator. No. 1,022,055; Apr. 2; Sp. p. 646; Gaz. vol. 177; p. 103.
Weiss, Michael M., Detroit, Mich. Cushion-tire for vehicle-wheels. No. 1,040,074; Oct. 1; Gaz. vol. 183; p. 135.
Weiss, Moritz, Resica, Austria-Hungary. Regenerative furnace. No. 1,045,650; Nov. 26; Gaz. vol. 184; p. 999.
Weiss, Morris Z. (See Greenwald, Blaustein, Weiss, and Selkovits.)
Weiss, Nathan, assignor to American Cigar Company, New York, N. Y. Cigar-bunching machine. No. 1,038,041; Sept. 10; Gaz. vol. 182; p. 323.
Weiss, Robert, Kingersheim, Germany. Bleaching apparatus. No. 1,036,941; Aug. 27; Gaz. vol. 181; p. 962.
Weiss, Theodore, Chicago, Ill. Electrical signaling device. No. 1,029,521; June 11; Sp. p. 3142; Gaz. vol. 179; p. 527.
Weiss, Theodore, and T. A. Walther, Chicago, Ill.; said Walther assignor to said Weiss. Electrical signaling device. No. 1,028,980; June 11; Sp. p. 1982; Gaz. vol. 179; p. 342.
Weiss, William G. (See Nicles, James, assignor.)
Weiss, William J. (See Schoen, Charles F., assignor.)
Weisse, Paul, Gronau, Hanover, and S. Bloch, Charlottenburg, Germany. Electric incandescent lamp with bipartite bulb. No. 1,046,918; Dec. 10; Gaz. vol. 185; p. 429.
Weissenborn, Albert B., Appleton, Wis. Loom-shuttle. No. 1,015,524; Jan. 23; Sp. p. 5367; Gaz. vol. 174; p. 920.
Weissenborn, Oscar A., Jersey City, N. J. Means for identifying motor or other vehicles in case of accident. No. 1,036,942; Aug. 27; Gaz. vol. 181; p. 963.
Weissenborn, Oscar A., Jersey City, N. J. Means for identifying motor or other vehicles in case of accident. No. 1,037,092; Aug. 27; Gaz. vol. 181; p. 1014.
Weissmann, Gustave, Paris, France. Electric illuminating-body. No. 1,047,353; Dec. 17; Gaz. vol. 185; p. 612.
Weisz, Albert R. and G. R., New York, N. Y. Atmospheric engine. No. 1,028,511; June 4; Sp. p. 985; Gaz. vol. 179; p. 149.
Weisz, George R. (See Weisz, Albert R. and G. R.)
Weitzel, George, Chicago, Ill. Wagon-box. No. 1,038,247; Sept. 10; Gaz. vol. 182; p. 391.
Weitzel, Harry E., Empalme, Sonora, Mexico. Gate-valve. No. 1,039,340; Sept. 24; Gaz. vol. 182; p. 820.
Weitzel, Jacob F., Columbus, Ohio. Drainage-gutter. No. 1,028,512; June 4; Sp. p. 987; Gaz. vol. 179; p. 149.
Weitzel, John A., Fall Brook, Cal. Tag-holder. No. 1,034,403; July 30; Gaz. vol. 180; p. 1367.
Weiwoda, Mathias, assignor to G. W. Stevens, New York, N. Y. Throttle-valve for carbureters. No. 1,020,379; Mar. 12; Sp. p. 2890; Gaz. vol. 176; p. 490.
Weiwoda, Mathias, assignor to G. W. Stevens, New York, N. Y. Float-valve for carbureters. No. 1,022,392; Apr. 2; Sp. p. 1325; Gaz. vol. 177; p. 215.
Welch, Charles B., Lowville, N. Y. Grading, processing, and concentrating apparatus. No. 1,019,570; Mar. 5; Sp. p. 1271; Gaz. vol. 176; p. 190.
Welch, Elias B. (See Davidson and Welch.)
Welch, Henry, Buffalo, N. Y. Xylophone. No. 1,021,345; Mar. 26; Sp. p. 4962; Gaz. vol. 176; p. 906.
Welch, Howard V. (See Hemphill and Welch.)
Welch, James A., Taunton, Mass. Wire tack. No. 1,042,301; Oct. 22; Gaz. vol. 183; p. 987.
Welch, Lyman W., Grand Rapids, Mich. Show-case. No. 1,023,186; Apr. 16; Sp. p. 3104; Gaz. vol. 177; p. 555.
Welch, Lyman W., Grand Rapids, Mich. Show-case. No. 1,023,231; Apr. 16; Sp. p. 3183; Gaz. vol. 177; p. 570.
Welch, Lyman W., Grand Rapids, Mich. Door structure in display-cabinets. No. 1,025,350; May 7; Sp. p. 541; Gaz. vol. 178; p. 84.
Welch, Marion F., Hollis, Kans. Signal for mail-boxes. No. 1,021,026; Mar. 26; Sp. p. 4291; Gaz. vol. 176; p. 797.
Welch, Robert A., Dover, N. J. Drill-bit. No. 1,043,885; Nov. 12; Gaz. vol. 184; p. 326.
Welch, Samuel F., assignor to Western Wheeled Scraper Company, Aurora, Ill. Folding elevator. No. 1,048,013; Dec. 24; Gaz. vol. 185; p. 867.
Welch, Walter H. (See Robb and Welch.)
Welcker, Rudolph, Yonkers, N. Y. Apparatus for handling concrete. No. 1,038,806; Sept. 17; Gaz. vol. 182; p. 620.
Welcome, Ralph N. (See Owen and Welcome.)
Weld, Berton L., Cleveland, N. D. Oil-cup. No. 1,037,567; Sept. 3; Gaz. vol. 182; p. 132.
Weld, Carley G., North Chatham, Mass. Carbureter. No 1,014,682; Jan. 16; Sp. p. 3558; Gaz. vol. 174; p. 609.

Alphabetical list of patentees—Continued.

Welde, Robert, Höchst-on-the-Main, and B. Homolka, Frankfort-on-the-Main, assignors to Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany. Blue vat dyestuff and making same. No. 1,025,174; May 7; Sp. p. 145; Gaz. vol. 178; p. 25.
Welden, Frederick S., assignor to M. F. Welden, New York, N. Y. Tooth restoration. No. 1,045,225; Nov. 26; Gaz. vol. 184; p. 849.
Welden, Maude F. (See Welden, Frederick S., assignor.)
Weldon, John H., assignor of one-half to C. S. Wade, Comanche, Okla. Spring-wheel. No. 1,030,442; June 25; Sp. p. 5193; Gaz. vol. 179; p. 924.
Welge, Charles F., Chester, Ill. Combined kitchen-cabinet and cupboard. No. 1,046,242; Dec. 3; Gaz. vol. 185; p. 155.
Welger, Gottfried, Seehausen, Germany. Baling-press. No. 1,031,603; July 2; Gaz. vol. 180; p. 261.
Welin, Axel, London, England, assignor to Welin, Davit and Lane & De Groot Co., Consolidated. Pulley-block. No. 1,036,391; Aug. 20; Gaz. vol. 181; p. 747.
Welin, Davit and Lane & De Groot Co. (See Welin, Axel, assignor.)
Welin, Peter. (See Krell and Welin.)
Welin, Peter, Newcastle, assignor, by mesne assignments, to The Krell Auto-Grand Piano Co. of America, Connersville, Ind. Automatic modulating mechanism for musical instruments. No. 1,034,048; July 30; Gaz. vol. 180; p. 1243.
Welin, Peter, Worcester, Mass., assignor, by mesne assignments, to Krell Auto-Grand Piano Co. of America, Connersville, Ind. Pneumatic action for single-system musical instruments. No. 1,045,226; Nov. 26; Gaz. vol. 184; p. 849.
Welin, Peter, Worcester, Mass., assignor, by mesne assignments, to Krell Auto-Grand Piano Co. of America. Paper-winding mechanism for musical instruments. No. 1,047,598; Dec. 17; Gaz. vol. 185; p. 698.
Welker, Alexander H., Berlin, Ontario, Canada. Motor-winding mechanism. No. 1,024,237; Apr. 23; Sp. p. 5328; Gaz. vol. 177; p. 933.
Welker, Alexander H., Berlin, Ontario, Canada. Starting and stopping device for motor mechanisms. No. 1,032,094; July 9; Gaz. vol. 180; p. 472.
Welker, Frederick, Williamsport, Pa. Self-adjusting clamp-bar for door and furniture clamps. No. 1,028,923; June 11; Sp. p. 1867; Gaz. vol. 179; p. 323.
Weller, George F., *et al.* (See Schneider, Frederick, assignor.)
Weller, George L., Elyria, Ohio. Flush-tank regulator. No. 1,039,620; Sept. 24; Gaz. vol. 182; p. 918.
Weller, John L., St. Catharines, Ontario, Canada. Device for spouting concrete, grain, and the like. No. 1,047,866; Dec. 17; Gaz. vol. 185; p. 791.
Welles, Edward B., Windsor, Conn. Pencil-sharpener. No. 1,016,117; Jan. 30; Sp. p. 6640; Gaz. vol. 174; p. 1154.
Welles, Richard H., assignor to The Badger Brass Mfg. Co., Kenosha, Wis. Headlight. No. 1,015,750; Jan. 23; Sp. p. 5858; Gaz. vol. 174; p. 999.
Welling, Greenwaldt S., Sioux City, Iowa. Gravity-motor. No. 1,026,727; May 21; Sp. p. 3602; Gaz. vol. 178; p. 626.
Wellman, Holley G. (See Thomas, Thomas W., assignor.)
Wellman-Seaver-Morgan Company, The. (See Hughes, William B., assignor.)
Wellman-Seaver-Morgan Company, The. (See Pitkin and Moeller, assignors.)
Wellman-Seaver-Morgan Company, The. (See Pitkin and Stratton, assignors.)
Wellman, William T., Lawrence, Kans. Combined floor-set, nail-set, and nail-shield. No. 1,016,383; Feb. 6; Sp. p. 322; Gaz. vol. 175; p. 51.
Wellner, Julius, Philadelphia, Pa. Record-changing mechanism for sound-reproducing machines. No. 1,032,573; July 16; Gaz. vol. 180; p. 678.
Wells, Albert R. (See Wells, Frank N. and A. R.)
Wells, Arthur C., Amityville, N. Y. Water and sewage lift. No. 1,025,079; Apr. 30; Sp. p. 7150; Gaz. vol. 177; p. 1255.
Wells, Arthur C., Amityville, N. Y. Water and sewage ejector. No. 1,025,727; May 7; Sp. p. 1374; Gaz. vol. 178; p. 214.
Wells, Charles S., Leicester, England, assignor to United Shoe Machinery Company, Paterson, N. J. Work-support. No. 1,018,537; Feb. 27; Sp. p. 5161; Gaz. vol. 175; p. 898.
Wells, Charles S., and W. W. Darnill, Leicester, England, assignors to United Shoe Machinery Company, Paterson, N. J. Machine for lacing uppers. No. 1,030,553; June 25; Sp. p. 5488; Gaz. vol. 179; p. 963.
Wells, David E. (See Dykes and Wells.)
Wells, Frank N. and A. R., assignors to The Beaton & Corbin Mfg. Co., Southington, Conn. Floor and ceiling plate. No. 1,042,629; Oct. 29; Gaz. vol. 183; p. 1130.
Wells, Frank O., assignor to Greenfield Tap & Die Corporation, Greenfield, Mass. Adjustable tool. No. 1,046,044; Dec. 3; Gaz. vol. 185; p. 84.
Wells, Frank W., Vancouver, British Columbia, Canada. Car-fender. No. 1,022,167; Apr. 2; Sp. p. 880; Gaz. vol. 177; p. 140.
Wells, Frederic E., Greenfield, Mass. Tap. No. 1,046,518; Dec. 10; Gaz. vol. 185; p. 290.
Wells, Frederic E., Greenfield, Mass. Die-blank. No. 1,048,921; Dec. 31; Gaz. vol. 185; p. 1216.
Wells, George J., Cleveland, Ohio. Device for supporting timepieces. No. 1,045,227; Nov. 26; Gaz. vol. 184; p. 849.
Wells, George W., assignor of one-half to The Walker-Wells Company, Amesbury, Mass. Machine for bending metallic plates. No. 1,030,259; June 18; Sp. p. 4756; Gaz. vol. 179; p. 819.
Wells, Harry S. (See Widmann and Wells.)
Wells, Henry W., Clements, Cal. Trace-hanger. No. 1,016,591; Feb. 6; Sp. p. 828; Gaz. vol. 175; p. 124.
Wells, Horace L., New Haven, Conn., assignor of two-thirds to M. H. King, East Orange, N. J. Making nickel salts and recovering the acid used. No. 1,039,861; Oct. 1; Gaz. vol. 183; p. 64.
Wells, Horace L., New Haven, Conn., assignor of two-thirds to M. H. King, East Orange, N. J. Extracting nickel. No. 1,044,316; Nov. 12; Gaz. vol. 184; p. 475.
Wells, James F., and H. B. Harlow, assignors to J. H. McPike, Alton, Ill. Box-stripping machine. No. 1,046,355; Dec. 3; Gaz. vol. 185; p. 194.
Wells, Joel C., Southbridge, Mass. Spectacles. No. 1,036,530; Aug. 20; Gaz. vol. 181; p. 794.
Wells, Joel C., Southbridge, Mass. Eyeglasses and spectacles. No. 1,046,129; Dec. 3; Gaz. vol. 185; p. 114.
Wells, Joseph M., Newark, N. J., assignor of one-half to F. L. Davis, Chicago, Ill. Tiling. No. 1,047,724; Dec. 17; Gaz. vol. 185; p. 742.
Wells, Merritt R. (See Crist and Wells.)
Wells, Otto. (See Maxim, Hosea F., assignor.)
Wells, Thomas T., Decatur, Miss. Plow attachment. No. 1,034,546; Aug. 6; Gaz. vol. 181; p. 49.
Welsbach Light Company. (See Litle, Thomas J., Jr., assignor.)
Welsbach Light Company. (See Lyon, Howard, assignor.)
Welsbach Light Company. (See Pitcher, Frederic D., assignor.)
Welsbach Light Company. (See Sanderson, Edward S., assignor.)
Welsbach Light Company. (See Whitaker, Milton C., assignor.)
Welsh, Andrew B., Sumrall, Miss. Lumber-gage. No. 1,034,547; Aug. 6; Gaz. vol. 181; p. 49.
Welsh, Ezra C., New Middletown, Ohio. Fire-escape. No. 1,020,065; Mar. 12; Sp. p. 2252; Gaz. vol. 176; p. 387.
Welsh, James M., assignor to The Spirella Company, Meadville, Pa. Front-clasp for corsets. No. 1,041,925; Oct. 22; Gaz. vol. 183; p. 864.
Welsh, John G., San Diego, Cal. Stair-carpet fastener. No. 1,013,345; Jan. 2; Sp. p. 573; Gaz. vol. 174; p. 91.
Welsh, Tom, Moffat, Scotland. Carbureter for internal-combustion engines. No. 1,019,209; Mar. 5; Sp. p. 447; Gaz. vol. 176; p. 71.
Welter, James. (See Schild, Viktor, assignor.)
Weltmer, Tracy C., Nevada, Mo. Mattress-pad. No. 1,045,228; Nov. 26; Gaz. vol. 184; p. 850.
Welton, John A., Canal Dover, Ohio. Apparatus for feeding fine fuel. No. 1,022,805; Apr. 9; Sp. p. 2260; Gaz. vol. 177; p. 386.
Welton, Harry C., assignor to Waterbury Mfg. Co., Waterbury, Conn. Powder-box. No. 1,039,862; Oct. 1; Gaz. vol. 183; p. 65.
Welton, Richard J., Fort Morgan, Colo. Drawing-board. No. 1,049,015; Dec. 31; Gaz. vol. 185; p. 1249.
Welton, William H. H., Akron, Ohio. Switch-point lock. No. 1,013,978; Jan. 9; Sp. p. 1991; Gaz. vol. 174; p. 37.
Welty, George M. (See Welty and Brinser.)
Welty, Harrison W., Fort Wayne, Ind. Fly-escape for screens. No. 1,029,330; June 11; Sp. p. 2738; Gaz. vol. 179; p. 463.
Welty, Harry T., Yonkers, N. Y., and F. J. McCain, Weehawken, N. J. Marine pile-driver. No. 1,043,886; Nov. 12; Gaz. vol. 184; p. 326.
Welty, John and G. M., and C. Brinser, Seattle, Wash. Line-wire reel. No. 1,017,936; Feb. 20; Sp. p. 3794; Gaz. vol. 175; p. 659.
Welty, Russell S., Sudbrook Park, Md. Telegraph-transmitter. No. 1,031,752; July 9; Gaz. vol. 180; p. 356.
Wemer, John, New York, N. Y. Iodin solution. No. 1,013,913; Jan. 9; Sp. p. 1838; Gaz. vol. 174; p. 315.
Wemer, John, New York, N. Y. Iodin solution. (Reissue.) No. 13,462; Aug. 27; Gaz. vol. 181; p. 1047.
Wemple, Horace R., Elizabeth, N. J. Ball. No. 1,023,904; Apr. 23; Sp. p. 4577; Gaz. vol. 177; p. 816.
Wenborne, Charles A., Chicago, Ill. Dry-kiln. No. 1,014,190; Jan. 9; Sp. p. 2436; Gaz. vol. 174; p. 409.
Wendell, Percy L., Jamaica Plain, Mass. Nose-guard. No. 1,043,649; Nov. 5; Gaz. vol. 184; p. 214.
Wender, Alfred, St. Louis, Mo. Vacuum apparatus. No. 1,044,610; Nov. 19; Gaz. vol. 184; p. 607.
Wenderoth, Otto H., New York, N. Y. Gas-controller for use with gas-engines. No. 1,029,650; June 18; Sp. p. 3417; Gaz. vol. 179; p. 608.
Wendholt, Benjamin. (See Hocker and Wendholt.)

Alphabetical list of patentees—Continued.

Wendler, Adolph, assignor to Firm of D. Hirsch, Lichtenberg, near Berlin, Germany. Glass roof. No. 1,016,118; Jan. 30; Sp. p. 6643; Gaz. vol. 174; p. 1155.
Wendling, Rhoda A. (See Brooks, Robert W., assignor.)
Wendorf, Albert W., and O. F. Sampe, Chili, Wis. Feed-box. No. 1,037,093; Aug. 27; Gaz. vol. 181; p. 1014
Wendorf, William, Chicago, Ill. Tailor's measuring device. No. 1,042,063; Oct. 22; Gaz. vol. 183; p. 908.
Wendt, Fred H., assignor of one-third to E. Crotteau, Marshfield, Wis. Car-coupling. No. 1,048,613; Dec. 31; Gaz. vol. 185; p. 1108.
Wendt, Paul, assignor to Oelwerke-Stern Sonneborn Actiengesellschaft, Hamburg, Germany. Oil-testing machine. No. 1,024,872; Apr. 30; Sp. p. 6743; Gaz. vol. 177; p. 1186.
Wendt, Paul, assignor to Company "Oelwerke Stern-Sonneborn Aktiengesellschaft," Hamburg, Germany. Oil-testing machine. No. 1,044,317; Nov. 12; Gaz. vol. 184; p. 475.
Wendt, Paul, assignor to Oelwerke Stern-Sonneborn Actiengesellschaft, Hamburg, Germany. Oil-testing apparatus. No. 1,047,469; Dec. 17; Gaz. vol. 185; p. 651
Wendte, Clifford E., and J. Nash, North Yakima, Wash. Machine for applying cartons to bottles. No. 1,016,805; Feb. 6; Sp. p. 1273; Gaz. vol. 175; p. 196.
Wener, Louis, New York, N. Y. Hat-protector. No. 1,038,042; Sept. 10; Gaz. vol. 182; p. 324.
Wenig, John, assignor of one-half to E. D. Henderson, Jr., Saginaw, Mich. Puzzle. No. 1,022,615; Apr. 9; Sp. p. 1825; Gaz. vol. 177; p. 319.
Wenink, Arthur B., Milwaukee, Wis. Register. No. 1,032,522; July 16; Gaz. vol. 180; p. 661.
Wenk, Emil, Basel, Switzerland. Apparatus for mechanically emptying superphosphate-chambers by means of revolving knives. No. 1,033,854; July 30; Gaz. vol. 180; p. 1173.
Wenk, Emile, Basel, Switzerland. Plant for the mechanical discharge of vessels serving for the treatment of superphosphates. No. 1,033,853; July 30; Gaz. vol. 180; p. 1173.
Wenk, Peter. (See Mladezki and Wenk.)
Wenker, Raymond J., Milwaukee, Wis. Dental form. No. 1,045,920; Dec. 3; Gaz. vol. 185; p. 43.
Wennersten, Henning, Chicago, Ill. Receptacle for fermenting liquids. No. 1,033,136; July 23; Gaz. vol. 180; p. 908.
Wennerstrom, August, Ashtabula, Ohio. Strap-retaining attachment. No. 1,037,381; Sept. 3; Gaz. vol. 182; p. 69.
Wenning, Jean C. A., assignor to Société Alsacienne De Constructions Mecaniques, Mülhausen, Germany. Automatic weft-replenishing mechanism for looms. No. 1,028,513; June 4; Sp. p. 988; Gaz. vol. 179; p. 149.
Wenrich, Christopher E., assignor of one-half to P. D. Allwine, Harrisburg, Pa. Switch-operating mechanism. No. 1,031,404; July 2; Gaz. vol. 180; p. 194.
Wensley, Charles J., Huntington, N. Y. Life-saving device. No. 1,025,497; May 7; Sp. p. 875; Gaz. vol. 178; p. 136.
Wentes, Louis, Philadelphia, Pa. Gas-heating sad-iron. No. 1,021,027; Mar. 26; Sp. p. 4292; Gaz. vol. 176; p. 797.
Wenthe, Herman H., Chicago, Ill. Seal-press. No. 1,014,105; Jan. 9; Sp. p. 2274; Gaz. vol. 174; p. 379.
Wentworth, Maynard M., East Denmark, Me. Telephone attachment. No. 1,032,638; July 16; Gaz. vol. 180; p. 702.
Wentworth, William W., Preston, Iowa. Curing and preserving seed-corn. No. 1,037,382; Sept. 3; Gaz. vol. 182; p. 69.
Wentz, Jere L., Passaic, N. J., assignor to Robins Conveying Belt Company. Belt conveyer. No. 1,014,106; Jan. 9; Sp. p. 2276; Gaz. vol. 174; p. 379.
Wentz, John R. (See Schwab, William, assignor.)
Wentz, Paul P., Sharon, Pa. Engraver's tool. No. 1,018,348; Feb. 20; Sp. p. 4652; Gaz. vol. 175; p. 799.
Wenzel, Fredrick E., assignor of one-half to E. T. Mueller, La Crosse, Wis. Automatic door. No. 1,044,837; Nov. 19; Gaz. vol. 184; p. 685.
Wenzelmann, Gustave, Galesburg, Ill. Baling-press. No. 1,038,248; Sept. 10; Gaz. vol. 182; p. 392.
Werbatus, Marie, Elster, Germany. Manufacturing wax flowers. No. 1,029,777; June 18; Sp. p. 3706; Gaz. vol. 179; p. 653.
Werckle, William A. (See Kent and Werckle.)
Werckmeister, Curt, Hazelwood, Pa. Apparatus for the manufacture of axles. No. 1,015,412; Jan. 23; Sp. p. 5132; Gaz. vol. 174; p. 882.
Werden, Henrietta T. (See Coe and Werden.)
Werhnjak, George. (See Urchniak and Werhnjak.)
Wermeling, Louis, Covington, Ky., assignor to P. Goldsmith's Sons, Cincinnati, Ohio. Ball. No. 1,047,354; Dec. 17; Gaz. vol. 185; p. 613.
Wermerskirchen, Anthony W., Chicago, Ill. Sample-case. No. 1,013,576; Jan. 2; Sp. p. 1047; Gaz. vol. 174; p. 169.
Wermuth, Burt, and W. M. Brown, Detroit, Mich. Trenching implement. No. 1,020,468; Mar. 19; Sp. p. 3092; Gaz. vol. 176; p. 558.
Werner, Charles F. (See Van Herdman, Albert, assignor.)
Werner, Gustave. (See Pohl, Wilhelm, assignor.)
Werner, Harry C., assignor of one-half to E. W. Westwood, Wheeling, W. Va. Pipe-coupling. No. 1,035,063; Aug. 6; Gaz. vol. 181; p. 219.
Werner, Henry E., assignor to E. Goldman & Co., Inc., Chicago, Ill. Jet-pipe-cleaning attachment. No. 1,018,020; Feb. 20; Sp. p. 3967; Gaz. vol. 175; p. 687.
Werner, Jesse E., Philadelphia, Pa. Machine for separating asbestos from the rock. No. 1,027,163; May 21; Sp. p. 4620; Gaz. vol. 178; p. 776.
Werner, Josef, Munich, Germany. Pencil-case. No. 1,041,926; Oct. 22; Gaz. vol. 183; p. 864.
Werner, Josephine, Baltimore, Md. Curtain-fixture. No. 1,027,950; May 28; Sp. p. 6277; Gaz. vol. 178; p. 1079.
Werner, Paul, assignor of one-half to E. Spindler, New York, N. Y. Washing-machine. No. 1,027,227; May 21; Sp. p. 4746; Gaz. vol. 178; p. 798.
Werner, Paul R., Philadelphia, Pa. Contact mechanism. No. 1,036,943; Aug. 27; Gaz. vol. 181; p. 963.
Werner, Richard & Otto. (See Hicks, George J., assignor.)
Werner, William, and J. Currivan, Brooklyn, N. Y. Accordion-door. No. 1,043,492; Nov. 5; Gaz. vol. 184; p. 160.
Werner, William J., Kiel, Wis. Metal container. No. 1,027,021; May 21; Sp. p. 4281; Gaz. vol. 178; p. 729.
Wernicke, Otto H. L., Grand Rapids, Mich. Lubricating device. No. 1,037,383; Sept. 3; Gaz. vol. 182; p. 69.
Wersel, Frank B., Jr., Mount Lookout, Ohio. Sofa-bed. No. 1,017,937; Feb. 20; Sp. p. 3796; Gaz. vol. 175; p. 659.
Wert, Cyrus S., Kendallville, Ind. Tile-machine. No. 1,025,663; May 7; Sp. p. 1239; Gaz. vol. 178; p. 191.
Wertelewski, Fredrick J., Gibsonburg, Ohio. Ditching-machine. No. 1,048,014; Dec. 24; Gaz. vol. 185; p. 867.
Werth, Federico, Milan, Italy. Apparatus for galvanizing metal tubes, rods, and the like. No. 1,015,863; Jan. 30; Sp. p. 6096; Gaz. vol. 174; p. 1063.
Wertman, J. R., *et al.* (See Michaelson, James M., assignor.)
Wertz, Joseph H., and F. Pomernacki, assignors to Theo. A. Kochs Co., Chicago, Ill. Barber's chair. No. 1,027,364; May 21; Sp. p. 5020; Gaz. vol. 178; p. 846.
Wescott, Carl E. (See Rogers, James B., assignor.)
Wescott, George F., Buffalo, assignor of one-half to International Acheson Graphite Company, Niagara Falls, N. Y. Treating iron or steel articles. No. 1,034,174; July 30; Gaz. vol. 180; p. 1286.
Wescott, William B., Roxbury, Mass. Cutting-machine. No. 1,021,028; Mar. 26; Sp. p. 4294; Gaz. vol. 176; p. 798.
Weseman, Alonzo W., assignor to W. Scott, deceased, Plainfield, N. J.; I. and D. J. Scott, executors. Transmission mechanism. No. 1,041,927; Oct. 22; Gaz. vol. 183; p. 865.
Wesenberg, Georg. (See Engelmann, Merkel, and Wesenberg.)
Weser, John A., New York, N. Y. Automatic player. No. 1,035,285; Aug. 13; Gaz. vol. 181; p. 327.
Weser, John A., New York, N. Y. Device for guiding traveling webs. No. 1,048,614; Dec. 31; Gaz. vol. 185; p. 1109.
Weser, John A., New York, N. Y. Valve for pneumatic piano-players, &c. No. 1,048,615; Dec. 31; Gaz. vol. 185; p. 1109.
Wesolowski, Peter J., Detroit, Mich. Can-opener. No. 1,043,650; Nov. 5; Gaz. vol. 184; p. 215.
Wessell, Bert, Johnstown, N. Y., assignor to Wessell Knitting Company. Knitting. No. 1,038,043; Sept. 10; Gaz. vol. 182; p. 324.
Wessell, Bert, Johnstown, N. Y., assignor to Wessell Knitting Company. Knitting-machine. No. 1,038,044; Sept. 10; Gaz. vol. 182; p. 324.
Wessell Knitting Company. (See Wessell, Bert, assignor.)
Wessels, Martin J., assignor of one-half to L. G. Monroe, Spokane, Wash. Display apparatus. No. 1,017,832; Feb. 20; Sp. p. 3535; Gaz. vol. 175; p. 621.
Wessinger, Henry J., Duluth, Minn. Side-dump car. No. 1,038,045; Sept. 10; Gaz. vol. 182; p. 325.
Wesson, James H., Atalla, Ala. Gin-saw file. No. 1,041,211; Oct. 15; Gaz. vol. 183; p. 586.
Wesson, Joseph H., Springfield, Mass., assignor to Smith & Wesson. Automatic pistol. No. 1,033,971; July 30; Gaz. vol. 180; p. 1215.
Wesson, Joseph H., Springfield, Mass., assignor to Smith & Wesson, Incorporated. Automatic pistol. No. 1,039,232; Sept. 24; Gaz. vol. 182; p. 781.
Wesson, Joseph H., assignor to Smith & Wesson, Springfield, Mass. Firearm. No. 1,041,928; Oct. 22; Gaz. vol. 183; p. 865.
Wesson, Walter H., Springfield, Mass. Camper's kit or outfit. No. 1,034,377; July 30; Gaz. vol. 180; p. 1358.
West, Arthur J., South Bethlehem, Pa. Lubricating device. No. 1,027,092; May 21; Sp. p. 4475; Gaz. vol. 178; p. 754.
West, Augustus A., New York, N. Y., and W. H. Benjamin, Newark, N. J. Hair-puffer. No. 1,013,346; Jan. 2; Sp. p. 574; Gaz. vol. 174; p. 91.
West, Charles G. (See Mulholland and West.)

Alphabetical list of patentees—Continued.

West Disinfecting Company. (See Marcuse, Moses M., assignor.)
West Disinfecting Company. (See Matheson, John J., assignor.)
West, Edmund B., Lynn, Mass., and N. F. Stevens, Durham, N. H. Shoe. No. 1,033,501; July 23; Gaz. vol. 180; p. 1030.
West, George M., Los Angeles, Cal. Gang-plow. No. 1,035,286; Aug. 13; Gaz. vol. 181; p. 327.
West, Harry H., Plymouth, Pa. Needle-actuating mechanism for knitting-machines. No. 1,045,651; Nov. 26; Gaz. vol. 184; p. 999.
West, Henry P. P., San Francisco, Cal. Cushion-tread for vehicles. No. 1,045,485; Nov. 26; Gaz. vol. 184; p. 940.
West, James, assignor, by mesne assignments, to Robert Gair Company, Brooklyn, N. Y. Envelop-machine. No. 1,043,278; Nov. 5; Gaz. vol. 184; p. 82.
West, James G., Jr., Wilkinsburg, Pa. Sintering fine ores and similar materials. No. 1,031,153; July 2; Gaz. vol. 180; p. 108.
West, James W., Des Moines, Iowa. Ice-cream-cone machine. No. 1,014,274; Jan. 9; Sp. p. 2627; Gaz. vol. 174; p. 438.
West, Joel W., Omaha, Nebr. Automobile engine and transmission suspension device. No. 1,031,497; July 2; Gaz. vol. 180; p. 226.
West, John, Southport, England. Discharging and charging machine for gas-retorts. No. 1,035,287; Aug. 13; Gaz. vol. 181; p. 327.
West, John W., Braintree, Mass. Controlling device for winding-machines. No. 1,030,147; June 18; Sp. p. 4514; Gaz. vol. 179; p. 780.
West, John W., East Braintree, Mass. Protector for tube-thread. No. 1,038,249; Sept. 10; Gaz. vol. 182; p. 392.
West, Joseph D., Des Moines, Iowa. Sheet-metal fish-back for grain-separators. No. 1,027,365; May 21; Sp. p. 5023; Gaz. vol. 178; p. 846.
West, Laurel C., Milwaukee, Wis. Jock-strap. No. 1,020,588; Mar. 19; Sp. p. 3365; Gaz. vol. 176; p. 598.
West, Lewis, Monett, Mo. Washboiler. No. 1,029,778; June 18; Sp. p. 3706; Gaz. vol. 179; p. 653.
West, Louis, Rochester, Minn. Automobile-horn. No. 1,019,571; Mar. 5; Sp. p. 1273; Gaz. vol. 176; p. 190.
West, Oscar H., Gary, Ind. Trolley-switch mechanism. No. 1,041,929; Oct. 22; Gaz. vol. 183; p. 865.
West, Ralph H., Cleveland, Ohio. Lathe-dog. No. 1,032,639; July 16; Gaz. vol. 180; p. 702.
West, Robert N., Winthrop, assignor to Yates Machine Company, Salem, Mass. Automatic mechanism for opening outlet-valves. No. 1,031,405; July 2; Gaz. vol. 180; p. 195.
West, Roland W., Pawtucket, assignor to H. Walters, Providence, R. I. Gas-regulator. No. 1,044,958; Nov. 19; Gaz. vol. 184; p. 727.
West, Thomas D., Cleveland, Ohio. Making metal castings. No. 1,025,436; May 7; Sp. p. 720; Gaz. vol. 178; p. 114.
West, Thomas D., Cleveland, Ohio. Mold for making metal castings. No. 1,025,437; May 7; Sp. p. 725; Gaz. vol. 178; p. 114.
West, Thomas D., Cleveland, Ohio. Mold for casting circular objects. No. 1,025,438; May 7; Sp. p. 736; Gaz. vol. 178; p. 115.
West, Thomas D., Cleveland, Ohio. Making metal castings. No. 1,031,305; July 2; Gaz. vol. 180; p. 161.
West, Thomas D., Cleveland, Ohio. Mold for making metal castings. No. 1,042,734; Oct. 29; Gaz. vol. 183; p. 1167.
West, Thomas W. A., Ocotlan, Oaxaca, Mexico. Ore-concentrator. No. 1,038,046; Sept. 10; Gaz. vol. 182; p. 325.
West, Walter L., Hooker, Okla. Letter-holder. No. 1,041,930; Oct. 22; Gaz. vol. 183; p. 866.
West, William B., Philadelphia, Pa. Automobile tag-holder. No. 1,016,723; Feb. 6; Sp. p. 1104; Gaz. vol. 175; p. 170.
Westaway, Walter C., Belvidere, Ill. Mixer for internal-combustion engines or the like. No. 1,031,753; July 9; Gaz. vol. 180; p. 357.
Westaway, Walter C., Belvidere, Ill. Internal-combustion engine or the like. No. 1,031,754; July 9; Gaz. vol. 180; p. 357.
Westaway, Walter C., Belvidere, Ill. Mixing device for internal-combustion engines or the like. No. 1,031,755; July 9; Gaz. vol. 180; p. 357.
Westaway, Walter C., Chicago, Ill. Carbureter. No. 1,049,318; Dec. 31; Gaz. vol. 185; p. 1352.
Westaway, Walter C., assignor, by mesne assignments, to Chicago Pneumatic Tool Company, Chicago, Ill. Igniter or the like. No. 1,028,514; June 4; Sp. p. 992; Gaz. vol. 179; p. 150.
Westaway, Walter C., Rockford, assignor, by mesne assignments, to Chicago Pneumatic Tool Company, Chicago, Ill. Internal-combustion engine. No. 1,048,922; Dec. 31; Gaz. vol. 185; p. 1216.
Westberg, Knut R. (See Dahlgren, Ulrik H., assignor.)
Westbrook, James G., Ogdensburg, N. Y. Device for automatically controlling the motion of machines. No. 1,020,066; Mar. 12; Sp. p. 2254; Gaz. vol. 176; p. 388.
Westbrook, John J., Danville, Va. Cloth stretching and finishing machine. No. 1,046,519; Dec. 10; Gaz. vol. 185; p. 290.
Westburg, Arthur E., Jamestown, N. Y. Brush and mop holder. No. 1,033,972; July 30; Gaz. vol. 180; p. 1216.
Westburg, Arthur E., Jamestown, N. Y. Mop-holder. No. 1,049,282; Dec. 31; Gaz. vol. 185; p. 1339.
Westcott, Edson C., Sacramento, Cal. Electric-current transformer. No. 1,048,436; Dec. 24; Gaz. vol. 185; p. 1009.
Westcott, Henry P., Chanute, Kans. Proportional meter. No. 1,045,229; Nov. 26; Gaz. vol. 184; p. 850.
Westcott, Henry P., Erie, Pa. Attachment for fluid-meters. No. 1,048,115; Dec. 24; Gaz. vol. 185; p. 902.
Westcott, John D., Union City, Pa. Steam-trap. No. 1,039,621; Sept. 24; Gaz. vol. 182; p. 918.
Westcott, Valorus S., Pawtucket, R. I. Knot-tier. No. 1,024,873; Apr. 30; Sp. p. 6745; Gaz. vol. 177; p. 1187.
Westcott, Willis L., *et al.* (See Lipps, Louis P., assignor.)
Westen, Charles, Chicago, assignor to Northern Brass Manufacturing Company, Waukegan, Ill. Machine for threading pipe-fittings. No. 1,020,529; Mar. 19; Sp. p. 3225; Gaz. vol. 176; p. 577.
Westendorf, August, Buffalo, Iowa. Building construction. No. 1,038,467; Sept. 10; Gaz. vol. 182; p. 469.
Westerbeck, Frederick, St. Louis, Mo. Sheet-feeding mechanism for printing-presses. No. 1,029,159; June 11; Sp. p. 2362; Gaz. vol. 179; p. 403.
Westerberg, John N., and D. Olson, Bridgeport, Kans. Rake. No. 1,046,045; Dec. 3; Gaz. vol. 185; p. 85.
Westerfield, Newton C., Chicago, Ill., assignor to International Manufacturing & Mining Co. Dry-placer separator and concentrator. No. 1,029,651; June 18; Sp. p. 3419; Gaz. vol. 179; p. 609.
Westering, Frank A., *et al.* (See Adams, Edwin L., assignor.)
Westerling, Bernard A., Hopkinton, and A. P. Hedberg, Milford, Mass. Stone-cutting machine. No. 1,031,756; July 9; Gaz. vol. 180; p. 358.
Westerlund, John V., San Francisco, Cal. Form for concrete. No. 1,040,075; Oct. 1; Gaz. vol. 183; p. 135
Westerman, Charles B., Columbia, Pa. Aeroplane. No. 1,028,409; June 4; Sp. p. 762; Gaz. vol. 179; p. 115.
Western Cabinet and Fixture Manufacturing Company. (See Glenn, Edmond R., assignor.)
Western Clock Co. (See Senftleben, Otto J., assignor.)
Western Clock Manufacturing Company, The. (See Kern, George, assignor.)
Western Electric Company. (See Beck, William O., assignor.)
Western Electric Company. (See Bullard, Albert M., assignor.)
Western Electric Company. (See Bullard and Reynolds, assignors.)
Western Electric Company. (See Colpitts, Edwin H., assignor.)
Western Electric Company. (See Craft, Edward B., assignor.)
Western Electric Company. (See Craft and Dixon, assignors.)
Western Electric Company. (See Currier and Wolf, assignors.)
Western Electric Company. (See Dixon, Amos F., assignor.)
Western Electric Company. (See Dixon and Freeman, assignors.)
Western Electric Company. (See Field, Joseph C., assignor.)
Western Electric Company. (See Forsberg, Oscar F., assignor.)
Western Electric Company. (See Grace, Sergius P., assignor.)
Western Electric Company. (See Harkness, William E., assignor.)
Western Electric Company. (See Lorimer, George W., assignor.)
Western Electric Company. (See Lyng, John J., assignor.)
Western Electric Company. (See McBerty, Frank R., assignor.)
Western Electric Company. (See McLarn, Ernest S., assignor.)
Western Electric Company. (See Oswald, Paul E., assignor.)
Western Electric Company. (See Palmer, Joel C. R., assignor.)
Western Electric Company. (See Scribner, Charles E., assignor.)
Western Electric Company. (See Shreeve, Herbert E., assignor.)
Western Gas Fixture Company, The. (See Miller, Frederick J., assignor.)
Western, Harry R., Portsmouth, England. Pattern for coat-collars. No. 1,039,233; Sept. 24; Gaz. vol. 182; p. 782.
Western Machinery & Manufacturing Company. (See Barbre and Trefz, assignors.)
Western Mechanical Device Company. (See Wilmot, Charles W., assignor.)
Western Music Roll Company, The. (See Stonestreet, Arthur W., assignor.)

Alphabetical list of patentees—Continued.

Western Pipe and Steel Company of California. (See Ramsden, Charles H., assignor.)
Western Refrigerator & Manufacturing Co. (See Uhlinger, John G., assignor.)
Western Sugar Refining Company. (See Hannam and Murray, assignors.)
Western Tool and Manufacturing Company, The. (See Saum, Robert J., assignor.)
Western Union Telegraph Company, The. (See Athearn, William E., assignor.)
Western Wheeled Scraper Company. (See Welch, Samuel F. assignor.)
Westerström, Allan F., Nässjö, Sweden, assignor to G. J. Johnson, Paxton, Ill. Convertible table-bed. No. 1,043,743; Nov. 5; Gaz. vol. 184; p. 245.
Westerström, Allan F., Nässjö, Sweden, assignor to G. J. Johnson, Paxton, Ill. Convertible table-bed. No. 1,043,744; Nov. 5; Gaz. vol. 184; p. 245.
Westervelt, Benjamin F., New York, N. Y. Magazine-binder. No. 1,014,926; Jan. 16; Sp. p. 4109; Gaz. vol. 174; p. 692.
Westfelt, Axel U., Stockholm, Sweden. Sorting apparatus for coins. No. 1,037,568; Sept. 3; Gaz. vol. 182; p. 132.
Westgate, Frank J., Superior, Wis. Educational apparatus. No. 1,018,146; Feb. 20; Sp. p. 4266; Gaz. vol. 175; p. 732.
Westgate, Harry G., Union Center, N. Y. Non-refillable bottle. No. 1,032,259; July 9; Gaz. vol. 180; p. 528.
Westinghouse Air Brake Company, The. (See Burton, Thomas L., assignor.)
Westinghouse Air Brake Company, The. (See Corrington, Murray, assignor.)
Westinghouse Air Brake Company, The. (See Custer, John S., assignor.)
Westinghouse Air Brake Company. (See Dewson, Edward H., assignor.)
Westinghouse Air Brake Company, The. (See Dewson and Turner, assignors.)
Westinghouse Air-Brake Company, The. (See England, Alexander, assignor.)
Westinghouse Air Brake Company, The. (See Farmer, Clyde C., assignor.)
Westinghouse Air Brake Company, The. (See Gibbs, Lucius T., assignor.)
Westinghouse Air Brake Company, The. (See Goodspeed, Leland F., assignor.)
Westinghouse Air Brake Company, The. (See Livingston, Fremont P., assignor.)
Westinghouse Air Brake Company, The. (See Murphy, Howard M. P., assignor.)
Westinghouse Air Brake Company, The. (See Parke, Robert A., assignor.)
Westinghouse Air Brake Company, The. (See Simpson, Isaac, assignor.)
Westinghouse Air Brake Company, The. (See Stone, Richard H., assignor.)
Westinghouse Air Brake Company, The. (See Turner, Walter V., assignor.)
Westinghouse Air Brake Company, The. (See Turner, Walter V., assignor.) (Reissue.)
Westinghouse Air Brake Company, The. (See Westinghouse, Henry H., assignor.)
Westinghouse Air Spring Company, The. (See Liebau, Richard, assignor.)
Westinghouse Air & Steam Coupler Company. (See Niederlander and Adreon, assignors.)
Westinghouse Automatic Air & Steam Coupler Company. (See Niederlander, Nicholas F., assignor.)
Westinghouse Brake Company, The. (See Cross, James W., assignor.)
Westinghouse, Church, Kerr & Company. (See Francis and Smith, assignors.)
Westinghouse Electric and Manufacturing Company. (See Aalborg, Christian, assignor.)
Westinghouse Electric & Manufacturing Company. (See Aalborg and Schaumberg, assignors.)
Westinghouse Electric and Manufacturing Company. (See Abtmeyer, Theodore, assignor.)
Westinghouse Electric and Manufacturing Company. (See Ammon, Siegfried von, assignor.)
Westinghouse Electric and Manufacturing Company. (See Bache-Wiig, Jens, assignor.)
Westinghouse Electric & Manufacturing Company. (See Barr, John M., assignor.)
Westinghouse Electric & Manufacturing Company. (See Bennett, Edward, assignor.)
Westinghouse Electric and Manufacturing Company. (See Brackett, Quincy A., assignor.)
Westinghouse Electric & Manufacturing Company. (See Branson, Walter J., assignor.)
Westinghouse Electric & Manufacturing Company. (See Braun, Rudolf, assignor.)
Westinghouse Electric and Manufacturing Company. (See Bright, Graham, assignor.)
Westinghouse Electric & Manufacturing Company. (See Brown, Harold W., assignor.)
Westinghouse Electric and Manufacturing Company. (See Conrad, Frank, assignor.)
Westinghouse Electric & Manufacturing Company. (See Conrad and Bradshaw, assignors.)
Westinghouse Electric & Manufacturing Company. (See Conrad and MacGahan, assignors.)
Westinghouse Electric and Manufacturing Company. (See Crouse and Edgecomb, assignors.)
Westinghouse Electric and Manufacturing Company. (See Curtis, James F., assignor.)
Westinghouse Electric & Manufacturing Company. (See Darlington, Frederick, assignor.)
Westinghouse Electric and Manufacturing Company. (See Dearborn, Richard J., assignor.)
Westinghouse Electric and Manufacturing Company. (See Dick, Wililam A., assignor.)
Westinghouse Electric and Manufacturing Company. (See Eaton, George M., assignor.)
Westinghouse Electric & Manufacturing Company. (See Forrer, Joseph D., assignor.)
Westinghouse Electric & Manufacturing Company. (See Fortescue, Charles L., assignor.)
Westinghouse Electric and Manufacturing Company. (See Hadaway, William S., Jr., assignor.)
Westinghouse Electric & Manufacturing Company. (See Hadaway and Rose, assignors.)
Westinghouse Electric and Manufacturing Company. (See Haefely, Emil, assignor.)
Westinghouse Electric & Manufacturing Company. (See Hall, Fred C., assignor.)
Westinghouse Electric and Manufacturing Company. (See Hallock, Fletcher D., assignor.)
Westinghouse Electric and Manufacturing Company. (See Hamilton, George W., assignor.)
Westinghouse Electric & Manufacturing Company. (See Harris, Ford W., assignor.)
Westinghouse Electric and Manufacturing Company. (See Hellmund, Rudolf E., assignor.)
Westinghouse Electric & Manufacturing Company. (See Ingram, Ralph B., assignor.)
Westinghouse Electric & Manufacturing Company. (See Jackson, Ray P., assignor.)
Westinghouse Electric and Manufacturing Company. (See Jackson and Scheibe, assignors.)
Westinghouse Electric and Manufacturing Company. (See James, Henry D., assignor.)
Westinghouse Electric and Manufacturing Company. (See Kargau, Theodore, assignor.)
Westinghouse Electric and Manufacturing Company. (See Kunkel, Fred R., assignor.)
Westinghouse Electric and Manufacturing Company. (See Lamme, Benjamin G., assignor.)
Westinghouse Electric and Manufacturing Company. (See Lehr, Edwin, assignor.)
Westinghouse Electric & Manufacturing Company. (See Lincoln, Paul M., assignor.)
Westinghouse Electric and Manufacturing Company. (See Mahoney, Joseph N., assignor.)
Westinghouse Electric & Manufacturing Company. (See Mattice, Asa M., assignor.)
Westinghouse Electric and Manufacturing Company. (See Mills, Chester B., assignor.)
Westinghouse Electric and Manufacturing Company. (See Moss and Hayes, assignors.)
Westinghouse Electric & Manufacturing Company. (See Paris, William A., assignor.)
Westinghouse Electric and Manufacturing Company. (See Peck, John S., assignor.)
Westinghouse Electric & Manufacturing Company. (See Psilander, Charles A., assignor.)
Westinghouse Electric and Manufacturing Company. (See Randall and Gibson, assignors.)
Westinghouse Electric & Manufacturing Company. (See Reed, William E., assignor.)
Westinghouse Electric & Manufacturing Company. (See Reynders and Mateer, assignors.)
Westinghouse Electric and Manufacturing Company. (See Rose, Edward E., assignor.)
Westinghouse Electric & Manufacturing Company. (See Sandfield, Michael, assignor.)
Westinghouse Electric & Manufacturing Company. (See Schaumberg, Otto, assignor.)
Westinghouse Electric and Manufacturing Company. (See Scheibe, Harold M., assignor.)
Westinghouse Electric & Manufacturing Company. (See Skinner, Charles E., assignor.)
Westinghouse Electric and Manufacturing Company. (See Specht, Hans C., assignor.)
Westinghouse Electric and Manufacturing Company. (See Starker, Charles W., assignor.)
Westinghouse Electric and Manufacturing Company. (See Stuart and Thompson, assignors.)
Westinghouse Electric and Manufacturing Company. (See Tingley, Egbert M., assignor.)
Westinghouse Electric and Manufacturing Company. (See Varney, Theodore, assignor.)
Westinghouse Electric and Manufacturing Company. (See Varney and Tarkington, assignors.)
Westinghouse Electric and Manufacturing Company. (See Walker, Miles, assignor.)
Westinghouse Electric and Manufacturing Company. (See Walters, Francis S., assignor.)
Westinghouse Electric and Manufacturing Company. (See Webster, John E., assignor.)

Westinghouse Electric and Manufacturing Company. (See Woodward, Frederick S., assignor.)
Westinghouse, George. (See Potter, Henry N., assignor.)
Westinghouse, George. (See Wetherbee, Charles P., assignor.)
Westinghouse, George, Pittsburgh, Pa. Turbine-blade. No. 1,014,683; Jan. 16; Sp. p. 3561; Gaz. vol. 174; p. 609.
Westinghouse, George, Pittsburgh, Pa. Reëntrant turbine. No. 1,031,757; July 9; Gaz. vol. 180; p. 358.
Westinghouse, George, Pittsburgh, Pa. Reduction-gearing. No. 1,031,758; July 9; Gaz. vol. 180; p. 358.
Westinghouse, George, Pittsburgh, Pa. Vehicle supporting device. No. 1,031,759; July 9; Gaz. vol. 180; p. 359.
Westinghouse, George, Pittsburgh, Pa. Fluid-pressure device. No. 1,036,043; Aug. 20; Gaz. vol. 181; p. 622.
Westinghouse, Henry H. (See Goodspeed, Leland F., assignor.) (Reissue.)
Westinghouse, Henry H. (See Woernley, Harry F., assignor.)
Westinghouse, Henry H., New York, N. Y., assignor to The Westinghouse Air Brake Company, Pittsburgh, Pa. Inertia-governor for air-brakes. No. 1,018,596; Feb. 27; Sp. p. 5288; Gaz. vol. 175; p. 918.
Westinghouse Lamp Company. (See Beadle, George W., assignor.)
Westinghouse Lamp Company. (See Henderson, Robert H., assignor.)
Westinghouse Lamp Company. (See Jackson, Henry W., assignor.)
Westinghouse Lamp Company. (See Knight, Arthur S., assignor.)
Westinghouse Lamp Company. (See Lederer, Anton, assignor.)
Westinghouse Lamp Company. (See Madden, Harry D., assignor.)
Westinghouse Lamp Company. (See Scott, Charles F., assignor.)
Westinghouse Machine Company, The. (See Flanders, Warren B., assignor.)
Westinghouse Machine Company, The. (See Hodgkinson, Francis, assignor.)
Westinghouse Machine Company. (See Robinson, Cyrus, assignor.)
Westlake, Charles T. (See Frede and Westlake.)
Westlake, Charles T., St. Louis, Mo., assignor to Davis Locomotive Wheel Company. Buffer-beam. No. 1,016,592; Feb. 6; Sp. p. 829; Gaz. vol. 175; p. 124.
Westlake, Charles T., St. Louis, Mo., assignor to Davis Locomotive Wheel Company. Buffer-beam. No. 1,016,593; Feb. 6; Sp. p. 830; Gaz. vol. 175; p. 124.
Westlake, Charles T., assignor to Davis Locomotive Wheel Company, St. Louis, Mo. Buffer-beam. No. 1,022,716; Apr. 9; Sp. p. 2077; Gaz. vol. 177; p. 357.
Westlake, Charles T., assignor to Davis Locomotive Wheel Company, St. Louis, Mo. Buffer-beam. No. 1,024,756; Apr. 30; Sp. p. 6502; Gaz. vol. 177; p. 1145.
Westlake, Charles T., assignor to Cast Steel Platform Company, St. Louis, Mo. Car-underframe. No. 1,023,486; Apr. 16; Sp. p. 3690; Gaz. vol. 177; p. 653.
Westlake, Charles T., assignor, to Double Body Bolster Company, St. Louis, Mo. Railway-car. No. 1,023,905; Apr. 23; Sp. p. 4578; Gaz. vol. 177; p. 816.
Westlake, Charles T., assignor to Transom Draft Gear Company, St. Louis, Mo. Car draft-gear. No. 1,024,481; Apr. 23; Sp. p. 5831; Gaz. vol. 177; p. 1014.
Westlake, Charles T., assignor to Locomotive Tender Frame Company, St. Louis, Mo. Tender end sill. No. 1,027,784; May 28; Sp. p. 5874; Gaz. vol. 178; p. 1022.
Westlake, Charles T., assignor to Flory-Carry Iron Company, St. Louis, Mo. Striking-plate and carry-iron. No. 1,043,180; Nov. 5; Gaz. vol. 184; p. 48.
Westlake, Charles T., and C. F. Frede, assignors to Double Body Bolster Company, St. Louis, Mo. Car-underframe. No. 1,030,360; June 25; Sp. p. 5017; Gaz. vol. 179; p. 895.
Westlake, Charles T., and C. F. Frede, assignors to Double Body Bolster Company, St. Louis, Mo. Car-underframe. No. 1,030,755; June 25; Sp. p. 6093; Gaz. vol. 179; p. 1036.
Westlake, Charles T., and C. F. Frede, assignors to Double Body Bolster Company, St. Louis, Mo. Universal side bearing for car-underframes. No. 1,033,644; July 23; Gaz. vol. 180; p. 1077.
Westlake, Charles T., and C. F. Frede, assignors to Double Body Bolster Company, St. Louis, Mo. Buffing mechanism for car-platforms. No. 1,046,696; Dec. 10; Gaz. vol. 185; p. 353.
Westlake, Charles T., and C. F. Frede, assignors to Double Body Bolster Company, St. Louis, Mo. Railway-car underframe. No. 1,047,901; Dec. 17; Gaz. vol. 185; p. 802.
Westlake, Charles T., and C. F. Frede, assignors to Double Body Bolster Co., St. Louis, Mo. Buffing mechanism for car-platforms. No. 1,048,437; Dec. 24; Gaz. vol. 185; p. 1009.
Westlake, Charles T., and C. F. Frede, assignors to Double Body Bolster Company, St. Louis, Mo. Buffing mechanism for car-platforms. No. 1,049,016; Dec. 31; Gaz. vol. 185; p. 1249.
Westlake, Charles T., and C. F. Frede, assignors to Double Body Bolster Company, St. Louis, Mo. Buffing mechanism for car-platforms. No. 1,049,017; Dec. 31; Gaz. vol. 185; p. 1250.
Westlake, Frederick J. (See Simons, John A., assignor.)
Westlake Machine Company, The. (See Kadow, August, assignor.)
Westlin, Carl T., Arlington, and G. S. Ellithorpe, Maplewood, N. J. Door-hanger. No. 1,035,064; Aug. 6; Gaz. vol. 181; p. 220.
Westman, Alfred D. and W. H., and J. N. Richards, Chatham, Ontario, Canada. Child's-vehicle runner. No. 1,034,749; Aug. 6; Gaz. vol. 181; p. 117.
Westman, William, Essex, Iowa. Truck. No. 1,034,548; Aug. 6; Gaz. vol. 181; p. 49.
Westman, William H. (See Westman and Richards.)
Westmoreland, Yancy M., Greensboro, N. C. Automatic fire-alarm. No. 1,039,863; Oct. 1; Gaz. vol. 183; p. 65.
Weston, Clarence B. (See King and Weston.)
Weston, Folke W., New York, assignor to F. Wesel Manufacturing Company, Brooklyn, N. Y. Clamp. No. 1,014,352; Jan. 9; Sp. p. 2821; Gaz. vol. 174; p. 467.
Weston, Sarah A. (See Clark, Frederick B., assignor.)
Westover, Carlos S., Madison, Wis. Boat. No. 1,033,220; July 23; Gaz. vol. 180; p. 937.
Westover, Henry J. (See Mailloux and Westover.)
Westover, Henry J., New York, N. Y. Means for collecting average samples of gas. No. 1,037,695; Sept. 3; Gaz. vol. 182; p. 174.
Westpfahl, William C., *et al.* (See Andel, Joseph, assignor.)
Westrate, Paul. (See Van Tubbergan and Westrate.)
Westphal, Carl, Leipzig, Germany. Pipe-joint. No. 1,049,283; Dec. 31; Gaz. vol. 185; p. 1339.
Westphal, Fritz, Rehhorst, near Reinfeld, Germany. Artificial goose-grease and making same. No. 1,031,218; July 2; Gaz. vol. 180; p. 131.
Westphal, Henry M., Manitowoc, Wis. Safety shaper-head. No. 1,041,931; Oct. 22; Gaz. vol. 183; p. 866.
Westwood, Ed. W. (See Werner, Harry C., assignor.)
Wetherbee, Charles P., Bath, Me., assignor to G. Westinghouse, Pittsburgh, Pa. Multiple-disk gearing. No. 1,038,047; Sept. 10; Gaz. vol. 182; p. 325.
Wetherbee, Edgar, Minneapolis, Minn. Splice-bar. No. 1,046,697; Dec. 10; Gaz. vol. 185; p. 354.
Wetherbee, Herbert E. (See Hanna, Wetherbee, and Grant.)
Wetherby, Ernest C. (See Ganyo, Patrick L., assignor.)
Wetherell, Anson B., Pittsburgh, Pa. Window-cleaner. No. 1,045,345; Nov. 26; Gaz. vol. 184; p. 891.
Wetherill Finished Castings Company. (See Morris, Albert W., assignor.)
Wetherill Finished Castings Company. (See Queneau, Augustin L. J., assignor.)
Wetherill Finished Castings Company. (See Wetherill and Morris, assignors.)
Wetherill Finished Castings Company. (See Wetherill, Samuel P., Jr., and J. P., Jr., assignors.)
Wetherill, John P., Jr. (See Wetherill, Samuel P., Jr., and J. P., Jr.)
Wetherill, Samuel P., Jr., and J. P., Jr., assignors to Wetherill Finished Castings Company, Philadelphia, Pa. Pneumatic casting apparatus. No. 1,029,565; June 11; Sp. p. 3240; Gaz. vol. 179; p. 543.
Wetherill, Samuel P., Jr., and A. W. Morris, assignors to Wetherill Finished Castings Company, Philadelphia, Pa. Pressure casting apparatus. No. 1,039,234; Sept. 24; Gaz. vol. 182; p. 782.
Wetmore, Earl P., Toledo, Ohio. Bottle capping or sealing machine. No. 1,021,565; Mar. 26; Sp. p. 5450; Gaz. vol. 176; p. 981.
Wetmore, Earl S., College Springs, Iowa. Electric motor. No. 1,033,221; July 23; Gaz. vol. 180; p. 938.
Wetmore, Sherman, Columbia, Cal. Fish-hook releaser. No. 1,042,630; Oct. 29; Gaz. vol. 183; p. 1130.
Wetsue, John, Seattle, Wash. Floor-scraper. No. 1,038,807; Sept. 17; Gaz. vol. 182; p. 621.
Wette, Friedrich, Koblenz, Germany. Rubber sole for shoes and the like. No. 1,032,640; July 16; Gaz. vol. 180; p. 703.
Wetteroth, Frank. (See Meyer and Wetteroth.)
Wetterwald, Joseph, Lucerne, Switzerland. Automatic safety controlling device for aerial machines, especially aeroplanes. No. 1,020,671; Mar. 19; Sp. p. 3546; Gaz. vol. 176; p. 624.
Wettlaufer, John L., Toronto, Ontario, Canada. Feeding apparatus for concrete-mixing machines. No. 1,030,361; June 25; Sp. p. 5019; Gaz. vol. 179; p. 895.
Wetzel & Company, Otto. (See Schultheis, Ludwig, assignor.)
Wetzel, Lewis C., assignor to The Toledo Computing Scale Company, Toledo, Ohio. Weighing-scale. No. 1,030,362; June 25; Sp. p. 5021; Gaz. vol. 179; p. 896.
Wetzel, Nathan, Kilbourn, Wis. Hat-pin guard. No. 1,015,366; Jan. 23; Sp. p. 5029; Gaz. vol. 174; p. 868.
Wetzel, Wilbur H., Kansas City, Mo. Reel-support. No. 1,013,347; Jan. 2; Sp. p. 575; Gaz. vol. 174; p. 91.
Wetzig, Ernest L., Clint, Tex. Hay-press. No. 1,044,318; Nov. 12; Gaz. vol. 184; p. 475.

Wewerka, Hans, Teplitz - Turn, Austria - Hungary. Production of hollow or solid bodies of concrete, artificial stone, or clay or similar plastic material. No. 1,044,959; Nov. 19; Gaz. vol. 184; p. 727.
Wex, Adolphus L. (See Paetzold, Magda E. E., assignor.)
Weyand, Lawrence C., Chicago, Ill., assignor to Battenberg Car Seal and Equipment Co. Seal-padlock. No. 1,048,438; Dec. 24; Gaz. vol. 185; p. 1009.
Weÿgand, Heinrich, Hattingen-Ruhr, Germany. Joint and connection for crossed or abutting parts. No. 1,014,684; Jan. 16; Sp. p. 3562; Gaz. vol. 174; p. 609.
Weyman, Frederick W., Hartford, Conn. Shock-absorber. No. 1,038,808; Sept. 17; Gaz. vol. 182; p. 621.
Weyrauch, William F., Chicago, Ill. Switchboard. No. 1,030,040; June 18; Sp. p. 4298; Gaz. vol. 179; p. 743.
Whalen, Catharine L., administratrix. (See Whalen, John W.)
Whalen, John W., Graymount, Ill. Drawing instrument. No. 1,043,789; Nov. 5; Gaz. vol. 184; p. 260.
Whalen, John W., deceased, Graymont, Ill.; C. L. Whalen, administratrix, Cambridge, Mass. Drawing instrument. No. 1,038,998; Sept. 17; Gaz. vol. 182; p. 686.
Whalen, Michael H., New York, N. Y. Flying-machine. No. 1,021,496; Mar. 26; Sp. p. 5316; Gaz. vol. 176; p. 958.
Whalen, Thomas J., New Brunswick, assignor, by mesne assignments, to H. M. Marble, Newark, N. J. Tire-making machine. No. 1,045,346; Nov. 26; Gaz. vol. 184; p. 891.
Whaley, William B. S., Boston, Mass., assignor, by mesne assignments, to The Reversible Gas-Engine Company, Portland, Me. Starting device for internal-combustion engines. No. 1,039,864; Oct. 1; Gaz. vol. 183; p. 65.
Whaley, William B. S., and A. L. Galusha, Boston, Mass., assignors, by mesne assignments, to The Reversible Gas-Engine Company, Portland, Me. Internal-combustion engine. No. 1,039,865; Oct. 1; Gaz. vol. 183; p. 66.
Whaley, William B. S., Newton, and E. P. Robinson, Malden, Mass., assignors to Reversible Gas-Engine Company. Internal - combustion engine. No. 1,039,866; Oct. 1; Gaz. vol. 183; p. 66.
Whaley, William B. S., Newton, and E. P. Robinson, Malden, Mass., assignors to Reversible Gas-Engine Company. Ignition-timer. No. 1,039,867; Oct. 1; Gaz. vol. 183; p. 67.
Whalley, Christopher, Clitheroe, England. Circular loom. No. 1,017,192; Feb. 13; Sp. p. 2139; Gaz. vol. 175; p. 366.
Whallon, Fitz M., Mayville, N. Y. Depository and accounting device. No. 1,018,283; Feb. 20; Sp. p. 4527; Gaz. vol. 175; p. 778.
Whalton, Hilary F., Key West, Fla. Sparking apparatus. No. 1,013,466; Jan. 2; Sp. p. 823; Gaz. vol. 174; p. 131.
Wharton, Joseph S. L., *et al.* (See Gibson, George H., assignor.)
Wharton, Samuel E., Everett, Wash. Game. No. 1,030,554; June 25; Sp. p. 5490; Gaz. vol. 179; p. 963.
What Cheer Tool Co. (See Walker, Alexander, assignor.)
Whealen, Charles, *et al.* (See Lyons, John J., assignor.)
Wheary, George H., assignor to The Hartman Trunk Company, Racine, Wis. Wardrobe-trunk. (Reissue.) No. 13,404; Apr. 9; Sp. p. 2923; Gaz. vol. 177; p. 498.
Wheary, George H., assignor to The Hartmann Trunk Company, Racine, Wis. Wardrobe grip or tray. No. 1,025,351; May 7; Sp. p. 543; Gaz. vol. 178; p. 85.
Wheary, George H., assignor to The Hartmann Trunk Company, Racine, Wis. Trunk. No. 1,037,696; Sept. 3; Gaz. vol. 182; p. 175.
Wheat, Alfred H., Horseheads, N. Y. Grain-sprouter. No. 1,013,831; Jan. 2; Sp. p. 1612; Gaz. vol. 174; p. 258.
Wheaton, Theodore C., Millville, N. J. Combination-jar. No. 1,019,106; Mar. 5; Sp. p. 216; Gaz. vol. 176; p. 34.
Wheaton, Victor B., Ionia, Mich. Railway - tie. No. 1,016,806; Feb. 6; Sp. p. 1276; Gaz. vol. 175; p. 196.
Wheeler, Albert J. (See Rushing and Wheeler.)
Wheeler, Bertrand L. (See Wheeler, Roy D. and B. L.)
Wheeler, Charles A., assignor of one-half to The Smith & Egge Manufacturing Co., Bridgeport, Conn. Locking device for automobile-cranks. No. 1,026,189; May 14; Sp. p. 2420; Gaz. vol. 178; p. 407.
Wheeler, Charles N. (See Palmer and Wheeler.)
Wheeler, Charley W. (See Wheeler, Harley A. and C. W.)
Wheeler, Clarence L., Monroe, Wis. Mail-box attachment. No. 1,033,502; July 23; Gaz. vol. 180; p. 1030.
Wheeler Condenser and Engineering Company. (See Brown, John J., assignor.)
Wheeler, Earl A., Bakersfield, Cal. Oil-well pump. No. 1,013,246; Jan. 2; Sp. p. 344; Gaz. vol. 174; p. 55.
Wheeler, Earl A., Bakersfield, Cal. Oil-well-pump valve. No. 1,043,279; Nov. 5; Gaz. vol. 184; p. 82.
Wheeler, Edwin H. (See Joline and Wheeler.)
Wheeler, Frank, Orange, Cal. Vehicle - spring. No. 1,013,577; Jan. 2; Sp. p. 1040; Gaz. vol. 174; p. 169.
Wheeler, George A., New York, N. Y. Moving stairway. No. 1,016,189; Jan. 30; Sp. p. 6765; Gaz. vol. 174; p. 1177.
Wheeler, Harley A. and C. W., Eddyville, Nebr. Bench. No. 1,032,792; July 16; Gaz. vol. 180; p. 755.
Wheeler, Harry E., assignor to The Turner, Vaughn and Taylor Company, Cuyahoga Falls, Ohio. Mechanism for drawing wire. No. 1,026,840; May 21; Sp. p. 3854; Gaz. vol. 178; p. 665.
Wheeler, Holland, Lawrence, Kans. Regulating-valve. No. 1,019,869; Mar. 12; Sp. p. 1840; Gaz. vol. 176; p. 323.
Wheeler, Horace, Hartford, Conn., assignor to General Electric Company. Electric-lamp socket. No. 1,022,906; Apr. 9; Sp. p. 2464; Gaz. vol. 177; p. 419.
Wheeler, James A., Somerset county, N. J. Fireproof door. No. 1,034,175; July 30; Gaz. vol. 180; p. 1286.
Wheeler, James A., Somerset county, N. J. Forming fireproof slabs or boards. No. 1,048,616; Dec. 31; Gaz. vol. 185; p. 1109.
Wheeler, James A., Somerset county, N. J. Fireproof door. No. 1,048,923; Dec. 31; Gaz. vol. 185; p. 1216.
Wheeler, James A., Somerset, N. J., assignor, by mesne assignments, to W. T. Elkinton, Philadelphia, Pa. Forming fireproof slabs or boards. (Reissue.) No. 13,446; July 16; Gaz. vol. 180; p. 852.
Wheeler, Jerome S., and E. R. Ramsey, assignors to Penn Yan Flexible Conduit Company, Penn Yan, N. Y. Conduit-machine. No. 1,039,341; Sept. 24; Gaz. vol. 182; p. 820.
Wheeler, John, Cripple Creek, Colo. Opening device for furnace-doors. No. 1,041,212; Oct. 15; Gaz. vol. 183; p. 586.
Wheeler, Lambert, Mount Vernon, Ohio. Attachment for planting-machines. No. 1,023,346; Apr. 16; Sp. p. 3414; Gaz. vol. 177; p. 609.
Wheeler, Leonard E. (See Merrill, Peter H., assignor.)
Wheeler, Mary J., Dallas, Tex. Combined heater and radiator. No. 1,023,450; Apr. 16; Sp. p. 3622; Gaz. vol. 177; p. 642.
Wheeler, Roy D., Sydney, New South Wales, and B. L. Wheeler, Melbourne, Victoria, Australia. Rotatable plane. No. 1,036,044; Aug. 20; Gaz. vol. 181; p. 623.
Wheeler, Seth, Jr., Albany, N. Y. Anchor-bolt. No. 1,035,399; Aug. 13; Gaz. vol. 181; p. 369.
Wheeler, Solomon, Denver, Colo. Car - replacer. No. 1,032,523; July 16; Gaz. vol. 180; p. 661.
Wheeler, Solomon, Denver, Colo. Car - replacer. No. 1,046,919; Dec. 10; Gaz. vol. 185; p. 429.
Wheeler, Solomon, Cripple Creek, Colo. Smoke and cinder conductor for locomotives. No. 1,042,631; Oct. 29; Gaz. vol. 183; p. 1131.
Wheeler, Thomas J., assignor of one-half to G. M. McKnight, Lewisville, Ark. Machine for gathering insects. No. 1,016,861; Feb. 6; Sp. p. 1386; Gaz. vol. 175; p. 214.
Wheeler, Thomas J., assignor of one-half to G. M. McKnight, Lewisville, Ark. Combined harrow and drag. No. 1,026,539; May 14; Sp. p. 3179; Gaz. vol. 178; p. 526.
Wheeler, Walter O., Worcester, Mass. Steam-pump. No. 1,014,795; Jan. 16; Sp. p. 3798; Gaz. vol. 174; p. 645.
Wheeler, Willard A., Atkinson, Nebr. Concrete-mixer. No. 1,049,018; Dec. 31; Gaz. vol. 185; p. 1250.
Wheeler, William A. (See Lawyer, Frank G., assignor.)
Wheeling, Frank L., and F. A. Rogers, Los Angeles, Cal. Centering device. No. 1,025,728; May 7; Sp. p. 1376; Gaz. vol. 178; p. 214.
Wheelock, Caroline M., Washington, D. C. Heating device. No. 1,020,119; Mar. 12; Sp. p. 2374; Gaz. vol. 176; p. 406.
Wheelock, Edwin M., Minneapolis, Minn. Traction-engine gearing. No. 1,013,977; Jan. 9; Sp. p. 1989; Gaz. vol. 174; p. 336.
Wheelock, Edwin M., Minneapolis, Minn. Housing for traction-engine gearing. No. 1,024,430; Apr. 23; Sp. p. 5709; Gaz. vol. 177; p. 994.
Wheelock, Edwin M., Winona, Minn. Reversing-gearing. No. 1,021,029; Mar. 26; Sp. p. 4297; Gaz. vol. 176; p. 798.
Wheelock, Etta W., Arlington, Mass. Coupling for rotary tools. No. 1,039,342; Sept. 24; Gaz. vol. 182; p. 821.
Wheelock, Frank H., Washington, D. C. Heating device. No. 1,026,013; May 14; Sp. p. 2007; Gaz. vol. 178; p. 346.
Whelan, Charles A., Buena Vista, Colo. Buckle. No. 1,020,731; Mar. 19; Sp. p. 3674; Gaz. vol. 176; p. 647.
Whelan, Henry W., assignor of one-half to A. Ross, Detroit, Mich. Machine for printing, cutting, and separating paper matches. No. 1,049,019; Dec. 31; Gaz. vol. 185; p. 1250.
Wherry, Joseph P., Everett, Wash. Brush. No. 1,037,697; Sept. 3; Gaz. vol. 182; p. 175.
Whetstone, Allen E., Wood Lake, Nebr. Gate. No. 1,046,920; Dec. 10; Gaz. vol. 185; p. 429.
Whetstone, Frank M., Chicago, Ill. Expanded-metal machine. No. 1,048,617; Dec. 31; Gaz. vol. 185; p. 1110.
Whetstone, Sylvester S., assignor of one-half to F. A. Kotts, Toledo, Ohio. Tooth-facing-attaching device. No. 1,014,428; Jan. 9; Sp. p. 2972; Gaz. vol. 174; p. 493.
Whichello, Norman. (See Sawyer and Whichello.)
Whichello, Norman, Muskegon, Mich. Supporting device for overhead track-rails. No. 1,046,698; Dec. 10; Gaz. vol. 185; p. 354.

Alphabetical list of patentees—Continued.

Whichello, Norman, Muskegon, Mich. Means for suspending overhead track-rails. No. 1,046,699; Dec. 10; Gaz. vol. 185; p. 354.
Whidbourne, Harry, Plymouth, and J. J. Lishman, Salcombe, England. Internal-combustion engine. No. 1,024,711; Apr. 30; Sp. p. 6408; Gaz. vol. 177; p. 1128.
Whidbourne, Harry, Plymouth, and J. J. Lishman, Salcombe, England. Internal-combustion engine. No 1,025,439; May 7; Sp. p. 747; Gaz. vol. 178; p. 115.
Whigham, Charles, McKeesport, Pa. Combined pole and shade bracket. No. 1,020,239; Mar. 12; Sp. p. 2632; Gaz. vol. 176; p. 446.
Whigham, William, Pittsburgh, Pa. Tie-plate. No. 1,045,107; Nov. 19; Gaz. vol. 184; p. 778.
Whigham, William, Pittsburgh, Pa. Railway-track construction. No. 1,045,108; Nov. 19; Gaz. vol. 184; p. 779.
Whipple, Arden, assignor of forty-nine one-hundredths to C. L. Blodgett, Oakland, Cal. Hose-coupling washer. No. 1,019,572; Mar. 5; Sp. p. 1274; Gaz. vol. 176; p. 190.
Whipple, Charles A., Elk River, Minn., assignor to The Gopher Manufacturing Company. Excavating-machine. No. 1,015,525; Jan. 23; Sp. p. 5370; Gaz. vol. 174; p. 920.
Whipple, Durand, and J. R. Fordyce, Little Rock, Ark. Tent or awning attachment for vehicles. No. 1,018,798; Feb. 27; Sp. p. 5710; Gaz. vol. 175; p. 986.
Whipple, George E., Brooklyn, N. Y. Adjustable handle-clamp. No. 1,024,047; Apr. 23; Sp. p. 4886; Gaz. vol. 177; p. 865.
Whirtley, William, Johnson, N. Y. Clothes-line support. No. 1,045,230; Nov. 26; Gaz. vol. 184; p. 851.
Whisler, Isma S., assignor of one-half to L. Daniel, Newcastle, Ind. Clutch device. No. 1,015,254; Jan. 16; Sp. p. 4759; Gaz. vol. 174; p. 802.
Whitacre, James E., Rockford, Ill. Carbureter. No. 1,022,451; Apr. 9; Sp. p. 1479; Gaz. vol. 177; p. 265.
Whitaker, Frederick E., and T. H. Cox, New Haven, Conn. Window-cleaner. No. 1,030,626; June 25; Sp. p. 5769; Gaz. vol. 179; p. 991.
Whitaker, Milton C., Gloucester City, N. J., assignor to Welsbach Light Company. Protective container for mantles. No. 1,030,954; July 2; Gaz. vol. 180; p. 36.
Whitaker, Milton C., Gloucester City, N. J., assignor to Welsbach Light Company. Protective container for mantles. No. 1,031,219; July 2; Gaz. vol. 180; p. 131.
Whitaker, Nathan J., Amsterdam, N. Y. Collar. No. 1,021,283; Mar. 26; Sp. p. 4839; Gaz. vol. 176; p. 883.
Whitaker, Richard, assignor to The Brunswick Refrigerating Company, New Brunswick, N. J. Gas-pump. No. 1,013,348; Jan. 2; Sp. p. 576; Gaz. vol. 174; p. 92.
Whitaker, Thomas. (See Salsbury and Whitaker.)
Whitall Tatum Company. (See Tatum, Albert H., assignor.)
Whitcher, Rupert E., Keeler, Saskatchewan, Canada. Plow. No. 1,020,240; Mar. 12; Sp. p. 2634; Gaz. vol. 176; p. 446.
Whitcomb, Alonzo W., assignor to Whitcomb-Blaisdell Machine Tool Co., Worcester, Mass. Tail-stock-clamping mechanism. No. 1,018,222; Feb. 20; Sp. p. 4413; Gaz. vol. 175; p. 758.
Whitcomb-Blaisdell Machine Tool Co. (See Whitcomb, Alonzo W., assignor.)
Whitcomb, Harris M., Albany, Wis. Concrete-mixing machine. No. 1,017,720; Feb. 20; Sp. p. 3244; Gaz. vol. 175; p. 582.
Whitcomb, James A., McAlester, Okla. Type-writing machine. No. 1,021,120; Mar. 26; Sp. p. 4477; Gaz. vol. 176; p. 827.
Whitcomb, James A., McAlester, Okla. Type-writer. No. 1,035,928; Aug. 20; Gaz. vol. 181; p. 584.
Whitcomb, Lawrence, Brookline, Mass., assignor to The Cork Insert Company. Pipe-wrench. No. 1,024,167; Apr. 23; Sp. p. 5165; Gaz. vol. 177; p. 907.
Whitcomb, William C. (See Eckert and Whitcomb.)
White, Albert E., Eau Claire, Wis. Saw-swage. No. 1,021,284; Mar. 26; Sp. p. 4840; Gaz. vol. 176; p. 883.
White, Arthur, Sheboygan Falls, Wis. Building-slab. No. 1,017,067; Feb. 13; Sp. p. 1857; Gaz. vol. 175; p. 322.
White, Arthur H., New Kensington, Pa. Nut-lock. No. 1,037,384; Sept. 3; Gaz. vol. 182; p. 70.
White, Arthur M., assignor to S. R. White's Sons, Norfolk, Va. Handle-mount for plows. No. 1,039,074; Sept. 17; Gaz. vol. 182; p. 707.
White, Bruce C., Woonsocket, R. I., assignor to Price-Campbell Cotton Picker Corporation, Wilmington, Del. Seed-cotton cleaner. No. 1,030,249; June 18; Sp. p. 4735; Gaz. vol. 179; p. 815.
White, Bruce C., and A. Campbell, Woonsocket, R. I., assignors to Price-Campbell Cotton Picker Corporation, Wilmington, Del. Cotton-picker. No. 1,044,611; Nov. 19; Gaz. vol. 184; p. 607.
White, C. W., *et al.* (See Lawson, James R., assignor.)
White, Carl H., assignor to The Piogran Sales Company, Denver, Colo. Take-down pocket-knife. No. 1,014,927; Jan. 16; Sp. p. 4110; Gaz. vol. 174; p. 692.
White, Carl H., assignor to The Piogran Sales Company, Denver, Colo. Take-down pocket-knife. No. 1,026,065; May 14; Sp. p. 2161; Gaz. vol. 178; p. 365.
White, Charles, Baltimore, Md. Gas-engine. No. 1,034,549; Aug. 6; Gaz. vol. 181; p. 50.
White, Charles A., and F. McLaughlin, London, Ontario, Canada. Resilient hub for wheels. No. 1,040,599; Oct. 8; Gaz. vol. 183; p. 345.
White, Charles B., assignor to J. Carr & Sons, Manchester, England. Means for hanging curtains or the like. No. 1,039,343; Sept. 24; Gaz. vol. 182; p. 821.
White, Charles B., assignor to J. L., J., and E. H. Carr, Manchester, England. Loom for weaving warp-pile fabrics. No. 1,023,537; Apr. 16; Sp. p. 3785; Gaz. vol. 177; p. 669.
White, Charles E., assignor to Deere & Mansur Company, Moline, Ill. Harrow. No. 1,016,807; Feb. 6; Sp. p. 1277; Gaz. vol. 175; p. 196.
White, Charles E., assignor to Deere & Mansur Company, Moline, Ill. Harrow. No. 1,020,530; Mar. 19; Sp. p. 3227; Gaz. vol. 176; p. 578.
White, Charles E., Moline, Ill., assignor to Deere & Mansur Company. Harrow. No. 1,046,921; Dec. 10; Gaz. vol. 185; p. 430.
White, Charles F., Philadelphia, Pa. Timing device. No. 1,018,799; Feb. 27; Sp. p. 5712; Gaz. vol. 175; p. 986.
White, Charles J., New Britain, Conn. Garment-supporter. No. 1,023,538; Apr. 16; Sp. p. 3787; Gaz. vol. 177; p. 669.
White, Charles J., assignor to C. J. White Manufacturing Company, New Britain, Conn. Hose-supporter strip. No. 1,023,101; Apr. 9; Sp. p. 2863; Gaz. vol. 177; p. 487.
White, Charles J., assignor to C. J. White Manufacturing Company, New Britain, Conn. Elastic fabric or webbing. No. 1,042,632; Oct. 29; Gaz. vol. 183; p. 1131.
White, Charles P., Greensboro, N. C. Relief-valve. No. 1,023,187; Apr. 16; Sp. p. 3106; Gaz. vol. 177; p. 556.
White, Charles W., East St. Louis, Ill. Grain-door. No. 1,038,696; Sept. 17; Gaz. vol. 182; p. 582.
White Company, The. (See White, Rollin H., assignor.)
White Company, The. (See Whitney, George E., assignor.)
White, Edmond P., Chicago, Ill. Mat. No. 1,045,762; Nov. 26; Gaz. vol. 184; p. 1038.
White, Edward F. (See Bliss and White.)
White, Edward L., assignor to Chicago Railway Equipment Company, Chicago, Ill. Adjustable brake-head. No. 1,022,806; Apr. 9; Sp. p. 2263; Gaz. vol. 177; p. 387.
White, Edward Y., San Antonio, Tex. Dry-cleaning apparatus. No. 1,038,468; Sept. 10; Gaz. vol. 182; p. 470.
White, Ernest M., Globe, Ariz. Oiling system for automobiles. No. 1,022,991; Apr. 9; Sp. p. 2638; Gaz. vol. 177; p. 450.
White, Ernest M., Globe, Ariz. Splash system of lubrication. No. 1,030,148; June 18; Sp. p. 4517; Gaz. vol. 179; p. 780.
White, Francis H., Maghull, Liverpool, assignor of one-half to O. H. White, Liverpool, England. Acetylene-gas generator. No. 1,025,352; May 7; Sp. p. 546; Gaz. vol. 178; p. 85.
White, Frank, Angels Camp, Cal. Smoke-neutralizer. No. 1,027,951; May 28; Sp. p. 6278; Gaz. vol. 178; p. 1079.
White, Frank A. (See Kirkley and White.)
White, Frank C., assignor to The Wilcox & White Company, Meriden, Conn. Apparatus for producing perforated note-sheets. No. 1,016,862; Feb. 6; Sp. p. 1388; Gaz. vol. 175; p. 215.
White, Frank C., assignor to The Wilcox & White Company, Meriden, Conn. Controlling device for player-pianos. No. 1,023,906; Apr. 23; Sp. p. 4579; Gaz. vol. 177; p. 816.
White, Frank C., assignor to The Wilcox & White Company, Meriden, Conn. Expression-box for auto pneumatic musical instruments. No. 1,024,110; Apr. 23; Sp. p. 5024; Gaz. vol. 177; p. 887.
White, Frank L., assignor of three-tenths to R. W. Griffith, Little Rock, Ark., and three-tenths to R. B. Sutton, Winona, Miss. Baling-press. No. 1,018,284; Feb. 20; Sp. p. 4530; Gaz. vol. 175; p. 779.
White, Franklin P., Shallotte, N. C. Axle-lubricator. No. 1,044,319; Nov. 12; Gaz. vol. 184; p. 476.
White, Franklin P., Shallotte, N. C. Axle construction. No. 1,044,320; Nov. 12; Gaz. vol. 184; p. 476.
White, Frederick L., Lakewood, assignor to National Carbon Co., Cleveland, Ohio. Electric battery. No. 1,048,773; Dec. 31; Gaz. vol. 185; p. 1166.
White, George A., *et al.* (See Stedman, William E., assignor.)
White, George H., Enid, Okla. Fence-post. No. 1,017,833; Feb. 20; Sp. p. 3537; Gaz. vol. 175; p. 622.
White, George H., Oil City, assignor to S. R. Dresser Manufacturing Company, Bradford, Pa. Manufacturing clamping-rings for pipe-couplings. No. 1,032,718; July 16; Gaz. vol. 180; p. 730.
White, George H., Oil City, assignor to S. R. Dresser Manufacturing Company, Bradford, Pa. Clamping-ring for pipe-couplings. No. 1,036,944; Aug. 27; Gaz. vol. 181; p. 963.
White, George L., Newark, N. J. Bee-feeder. No. 1,022,762; Apr. 9; Sp. p. 2176; Gaz. vol. 177; p. 373.

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White, George P., Wallace, Idaho, assignor to J. A. Ferguson, Denver, Colo. Spring filler or cut-off for use in connection with molding machinery. No. 1,041,540; Oct. 15; Gaz. vol. 183; p. 696.
White, George W., San Antonio, Tex. Inhaler. No. 1,036,759; Aug. 27; Gaz. vol. 181; p. 902.
White, Harold E., Schenectady, N. Y., assignor to General Electric Company. Control of electrically-operated switches. No. 1,022,907; Apr. 9; Sp. p. 2467; Gaz. vol. 177; p. 420.
White, Harold E., Schenectady, N. Y., assignor to General Electric Company. Control of electrically-operated switches. No. 1,025,498; May 7; Sp. p. 876; Gaz. vol. 178; p. 136.
White, Harry B., Canton, Ohio. Account-cabinet. No. 1,032,457; July 16; Gaz. vol. 180; p. 639.
White, Harry B., Canton, Ohio. Attachment for sewing-machines. No. 1,046,520; Dec. 10; Gaz. vol. 185; p. 290.
White, Harry B., assignor to The Gilliam Manufacturing Company, Canton, Ohio. Bow rest and clamping device. No. 1,046,356; Dec. 3; Gaz. vol. 185; p. 194.
White, Harry M. (See Knox and White.)
White, Haywood D., Raleigh, N. C. Making lantern-slides. No. 1,048,248; Dec. 24; Gaz. vol. 185; p. 944.
White, Henry P., Kalamazoo, Mich. Tie-plate and rail-fastening device. No. 1,027,577; May 28; Sp. p. 5467; Gaz. vol. 178; p. 956.
White, Henry P., Kalamazoo, Mich. Fence-post. No. 1,045,486; Nov. 26; Gaz. vol. 184; p. 940.
White, Henry P., Kalamazoo, Mich. Rail fastener and support. No. 1,048,618; Dec. 31; Gaz. vol. 185; p. 1110.
White, Herbert B., Cedar Falls, Iowa. Side-draft evener. No. 1,031,760; July 9; Gaz. vol. 180; p. 359.
White, Herbert E., Youngstown, Ohio. Power-transmission apparatus. No. 1,017,355; Feb. 13; Sp. p. 2487; Gaz. vol. 175; p. 422.
White, Herbert E., assignor to The General Fireproofing Company, Youngstown, Ohio. Self-furring metallic lath. No. 1,014,616; Jan. 9; Sp. p. 3341; Gaz. vol. 174; p. 554.
White, Herbert E., assignor to The General Fireproofing Company, Youngstown, Ohio. Making expanded-metal structures. No. 1,014,617; Jan. 9; Sp. p. 3342; Gaz. vol. 174; p. 554.
White, Herbert E., assignor to The General Fireproofing Company, Youngstown, Ohio. Clip for attaching metallic lath. No. 1,027,632; May 28; Sp. p. 5563; Gaz. vol. 178; p. 972.
White, Herbert H., Brookline, assignor to Auto Wind Shield Company, Cambridge, Mass. Wind-shield. No. 1,020,336; Mar. 12; Sp. p. 2804; Gaz. vol. 176; p. 475.
White, Hubert C., Fultonville, N. Y., assignor of one-half to F. S. Porter, Jackson, Mich. Device for cracking nuts. No. 1,049,183; Dec. 31; Gaz. vol. 185; p. 1304.
White, Ira B., assignor of one-half to A. D. Campbell, Peoria, Ill. Mixing device. No. 1,040,826; Oct. 8; Gaz. vol. 183; p. 423.
White, James H. (See White, Matthew and J. H.)
White, James I., *et al.* (See Stedman, William E., assignor.)
White, James K., Grand Forks, N. D. Grain-separator. No. 1,031,154; July 2; Gaz. vol. 180; p. 108.
White, James M., Danville, Va. Bottle-indicator. No. 1,030,696; June 25; Sp. p. 5940; Gaz. vol. 179; p. 1015.
White, John, Boise, Idaho. Flue-damper. No. 1,023,232; Apr. 16; Sp. p. 3185; Gaz. vol. 177; p. 570.
White, John, Beaumont, Tex. Rail-joint. No. 1,024,610; Apr. 30; Sp. p. 6195; Gaz. vol. 177; p. 1093.
White, John, and F. W. Gray, Edinburgh, Scotland. Pulp-straining machine. No. 1,044,716; Nov. 19; Gaz. vol. 184; p. 643.
White, John C., assignor of one-half to F. E. Maynard, Indianapolis, Ind. Roof construction. No. 1,044,612; Nov. 19; Gaz. vol. 184; p. 607.
White, John F., Bloomington, Ill. Flight conveyer. No. 1,016,190; Jan. 30; Sp. p. 6769; Gaz. vol. 174; p. 1177.
White, John F., Bloomington, Ill. Flight conveyer. No. 1,016,191; Jan. 30; Sp. p. 6771; Gaz. vol. 174; p. 1177.
White, John F., Bloomington, Ill. Flight conveyer. No. 1,016,192; Jan. 30; Sp. p. 6773; Gaz. vol. 174; p. 1178.
White, John H., Pittsburgh, Pa. Insulating material. No. 1,029,652; June 18; Sp. p. 3422; Gaz. vol. 179; p. 609.
White, John H., and E. N. Barthelemy, assignors of two-thirds to said Barthelemy and one-third to C. J. Galarneault, Foley, Minn. Track-laying machine. No. 1,019,395; Mar. 5; Sp. p. 912; Gaz. vol. 176; p. 134.
White, John J., and L. M. Frederick, Denver, Colo. Frying-pan. No. 1,048,015; Dec. 24; Gaz. vol. 185; p. 868.
White, John S. (See White, Peter and J. S.)
White, Joseph, Piscataway township, Middlesex county, N. J. Ticket-printing machine. No. 1,019,107; Mar. 5; Sp. p. 217; Gaz. vol. 176; p. 34.
White, Joseph, Piscataway township, Middlesex county, N. J. Sheet-registering mechanism. No. 1,036,169; Aug. 20; Gaz. vol. 181; p. 669.
White, Joseph, Beechwood Heights, assignor to Hall Printing Press Company, Dunellen, N. J. Printing-press. No. 1,025,894; May 7; Sp. p. 1762; Gaz. vol. 178; p. 271.
White, Joseph A., assignor to The Moore and White Company, Philadelphia, Pa. Paper-slitting machine. No. 1,026,482; May 14; Sp. p. 3073; Gaz. vol. 178; p. 506.
White, Kirk H., Oswego, assignor of one-half to M. S. Ely, New York, N. Y. Union suit. No. 1,045,921; Dec. 3; Gaz. vol. 185; p. 43.
White Knight Company, The. (See Campbell, Donald, assignor.)
White, Le Roy S., Endicott, N. Y. Folding umbrella. No. 1,043,651; Nov. 5; Gaz. vol. 184; p. 215.
White, Louis M., and R. J. Sackett, assignors to New Orleans Specialty Co., New Orleans, La. Game apparatus. No. 1,013,709; Jan. 2; Sp. p. 1369; Gaz. vol. 174; p. 214.
White, Matthew and J. H., Luton, England. Gas-generating apparatus. No. 1,023,978; Apr. 23; Sp. p. 4735; Gaz. vol. 177; p. 840.
White, Matthew and J. H., Luton, England. Apparatus for washing and scrubbing gases. No. 1,025,729; May 7; Sp. p. 1379; Gaz. vol. 178; p. 215.
White, Morris C., and O. C. Duryea, Los Angeles, Cal. Internal-combustion power-hammer. No. 1,033,503; July 23; Gaz. vol. 180; p. 1030.
White, Morris C., and O. C. Duryea, Chicago, Ill. Power device. No. 1,033,505; July 23; Gaz. vol. 180; p. 1031.
White, Morris C., and O. C. Duryea, assignors to The Sterling Development Company, Chicago, Ill. Heater for motor fluids. No. 1,020,067; Mar. 12; Sp. p. 2256; Gaz. vol. 176; p. 388.
White, Morris C., and O. C. Duryea, assignors of one-tenth to J. R. Townsend, Los Angeles, Cal. Internal-combustion engine. No. 1,033,504; July 23; Gaz. vol. 180; p. 1031.
White, Nelson, assignor to Burroughs Adding Machine Company, Detroit, Mich. Adding and listing machine. No. 1,018,285; Feb. 20; Sp. p. 4532; Gaz. vol. 175; p. 779.
White, Nelson, Portland, Oreg., assignor to Burroughs Adding Machine Company, Detroit, Mich. Adding-machine. No. 1,046,521; Dec. 10; Gaz. vol. 185; p. 291.
White, Nelson, assignor to Burroughs Adding Machine Company, Detroit, Mich. Adding and listing machine. No. 1,048,249; Dec. 24; Gaz. vol. 185; p. 945.
White, Oliver H. (See White, Francis H., assignor.)
White, Peter and J. S., St. Louis, Mo. Cotton-seed delinter and gin. No. 1,020,787; Mar. 19; Sp. p. 3795; Gaz. vol. 176; p. 665.
White, Richard T., Richmond, Va. Internal-combustion engine. No. 1,042,181; Oct. 22; Gaz. vol. 183; p. 947.
White, Robert H., Everett, Wash. Logging-hook. No. 1,025,353; May 7; Sp. p. 548; Gaz. vol. 178; p. 86.
White, Robert M., assignor of one-half to E. T. Adams, Portsmouth, Ohio. Dumping-wagon. No. 1,042,302; Oct. 22; Gaz. vol. 183; p. 987.
White, Rollin H., Cleveland, Ohio, assignor to The White Company. Oil and water separator. No. 1,032,458; July 16; Gaz. vol. 180; p. 640.
White, Samuel B., Providence, R. I., assignor, by mesne assignments, to The Office Appliance Manufacturing Company. Stamp-affixing machine. (Reissue.) No. 13,435; June 25; Sp. p. 6459; Gaz. vol. 179; p. 1077.
White, Samuel B., Providence, R. I., assignor to Office Appliance Manufacturing Company. Stamp-affixing machine. No. 1,043,554; Nov. 5; Gaz. vol. 184; p. 183.
White Sewing Machine Company, The. (See Colegrove, Charles E., assignor.)
White Sewing Machine Company, The. (See Huffman and Lauffer, assignors.)
White Tar Company, The. (See Scheuch, Jacob L., assignor.)
White, Thelo G. (See Fulkerson and White.)
White, Thomas E., Philadelphia, Pa. Blowing soot. No. 1,046,522; Dec. 10; Gaz. vol. 185; p. 292.
White, Thomas J., Chicago, Ill. Boxing-mask. No. 1,023,285; Apr. 16; Sp. p. 3303; Gaz. vol. 177; p. 590.
White, Thomas L., New York, N. Y. Stabilizing means for aeroplanes. No. 1,018,400; Feb. 20; Sp. p. 4785; Gaz. vol. 175; p. 819.
White, Walter A., Covington, La. Fifth-wheel for vehicles. No. 1,046,357; Dec. 3; Gaz. vol. 185; p. 195.
White, Walter W., Dawson, N. D. Draft attachment. No. 1,038,697; Sept. 17; Gaz. vol. 182; p. 582.
White, Warren E., Spokane, Wash. Destroying stumps. No. 1,024,540; Apr. 30; Sp. p. 6018; Gaz. vol. 177; p. 1070.
White, Willard O., Uniontown, Pa. Door for coke-ovens. No. 1,034,328; July 30; Gaz. vol. 180; p. 1339.
White, William, Chicago, Ill. Boiler-compound-feeding mechanism. No. 1,025,224; May 7; Sp. p. 255; Gaz. vol. 178; p. 42.
White, William A., New York, N. Y. Liquid-fuel atomizer. No. 1,040,827; Oct. 8; Gaz. vol. 183; p. 424.
White, William F., executor. (See Luebke, August H.)
White, William R., assignor of one-half to H. and J. A. Martin, Birmingham, Ala. Treating nuts. No. 1,016,863; Feb. 6; Sp. p. 1391; Gaz. vol. 175; p. 215.
White, Wilson J., Arkansas City, Kans. Fan attachment for sewing-machines. No. 1,015,367; Jan. 23; Sp. p. 5030; Gaz. vol. 174; p. 868.
Whitecar, Frank. (See Knoth and Whitecar.)

Alphabetical list of patentees—Continued.

Whited, James R. (See Duffy and Whited.)
Whitehead and Company. (See Jones, Albert E., assignor.)
Whitehead, Howell G., Wilson, N. C., assignor to P. Lorillard Company, Jersey City, N. J. Paper box. No. 1,022,992; Apr. 9; Sp. p. 2640; Gaz. vol. 177; p. 450.
Whitehead, Leo S., Wheeling, W. Va. Wrench. No. 1,015,659; Jan. 23; Sp. p. 5668; Gaz. vol. 174; p. 968.
Whitehead, Richard A., assignor of one-half to G. R. Waterman, Los Angeles, Cal. Sound-producing apparatus. No. 1,017,834; Feb. 20; Sp. p. 3538; Gaz. vol. 175; p. 622.
Whitehead, Robert H., Whitley Bay, England. Binder for loose sheets. No. 1,042,735; Oct. 29; Gaz. vol. 183; p. 1167.
Whitehead, William J., assignor of one-third to W. B. Worthington, Cleveland, Ohio. Mold for concrete wall construction. No. 1,043,745; Nov. 5; Gaz. vol. 184; p. 246.
Whitehead, William L., Fulton, Miss. Scrubbing apparatus. No. 1,033,222; July 23; Gaz. vol. 180; p. 938.
Whitehouse, John H., assignor to The Ludlow Valve Manufacturing Company, Troy, N. Y. Hydrant. No. 1,021,959; Apr. 2; Sp. p. 447; Gaz. vol. 177; p. 72.
Whitehouse, John N., New York, N. Y. Pipe-case. No. 1,033,137; July 23; Gaz. vol. 180; p. 909.
Whitehouse, Robert T., *et al.*, trustees. (See Tainter, Willis W., assignor.)
Whitelaw, Francis R. (See Godfree and Whitelaw.)
Whiteley, Howard L., Lowell, Mass. Apparatus for absorbing gases in liquids. No. 1,027,022; May 21; Sp. p. 4286; Gaz. vol. 178; p. 729.
Whiteley, William. (See Crawford and Whiteley.)
Whiteman, Charles H., and R. L. Brewton, Mobile, Ala. Stove. No. 1,048,116; Dec. 24; Gaz. vol. 185; p. 902.
Whiteman, George W., Philadelphia, Pa. Rail-securing means. No. 1,025,104; Apr. 30; Sp. p. 7211; Gaz. vol. 177; p. 1263.
Whiteman, George W., Philadelphia, Pa. Tie and rail-securing means. No. 1,025,664; May 7; Sp. p. 1243; Gaz. vol. 178; p. 192.
White's Sons, S. R. (See White, Arthur M., assignor.)
Whiteside, Lawrence R., Belleville, Ill. Crank-head for mowing-machines. No. 1,035,667; Aug. 13; Gaz. vol. 181; p. 458.
Whitfield, James F., assignor to E. C. Miles, San Francisco, Cal. Moving-picture apparatus. No. 1,015,107; Jan. 16; Sp. p. 4475; Gaz. vol. 174; p. 754.
Whitford, John W. (See Mills and Whitford.)
Whitford, John W., Jersey City, N. J., assignor to Davis-Bournonville Acetylene Development Company, Pierre, S. D. Welding or cutting apparatus. No. 1,028,166; June 4; Sp. p. 250; Gaz. vol. 179; p. 30.
Whitford, John W., Pontiac, R. I., assignor to Davis-Bournonville Acetylene Development Company, Pierre, S. D. Blowpipe. No. 1,028,410; June 4; Sp. p. 764; Gaz. vol. 179; p. 115.
Whitin, James E., *et al.*, trustees. (See Farmer, Frederick, assignor.)
Whitin Machine Works. (See Aldrich, William O., assignor.)
Whitin Machine Works, The. (See Allen, Charles A., assignor.)
Whitin Machine Works. (See Burlin, Charles T., assignor.)
Whitin Machine Works, The. (See Jarry, Hormidas, assignor.)
Whitin Machine Works, The. (See Owen, Oscar L., assignor.)
Whitin Machine Works, The. (See Wild, John T., assignor.)
Whiting Foundry Equipment Company. (See Rundle, Fred A., assignor.)
Whiting, Frank O., Columbus, Ohio, assignor to The Jeffrey Manufacturing Company. Crusher. No. 1,045,763; Nov. 26; Gaz. vol. 184; p. 1038.
Whiting, Herman E., assignor to Garlock Auto Specialty Co., Palmyra, N. Y. Fixer for gaseous fuel. No. 1,023,402; Apr. 16; Sp. p. 3527; Gaz. vol. 177; p. 628.
Whiting, Horatio, New York, N. Y. Exercising device. No. 1,017,356; Feb. 13; Sp. p. 2493; Gaz. vol. 175; p. 423.
Whiting, Julius, Jr., trustee. (See Maxwell, Bert C., assignor.)
Whiting, Kenneth, and J. B. Howell, U. S. Navy. Mechanical air device for expelling water or other liquids from the heads of torpedoes to aid in the recovery thereof after firing. No. 1,023,907; Apr. 23; Sp. p. 4581; Gaz. vol. 177; p. 817.
Whiting Manufacturing Company. (See Lange, Thor H., assignor.)
Whiting, Max A., Schenectady, N. Y., assignor to General Electric Company. System of motor control. No. 1,022,908; Apr. 9; Sp. p. 2470; Gaz. vol. 177; p. 420.
Whiting, Paul, Kingman, Kans. Combined vending and weighing machine. No. 1,040,077; Oct. 1; Gaz. vol. 183; p. 136.
Whitlatch, Floyd E., Windsor, Ill. Aerostructural balance. No. 1,030,363 June 25; Sp. p. 5023; Gaz. vol. 179; p. 896.
Whitley, William P., St. Louis, Mo. Base-ball glove. No. 1,045,231; Nov. 26; Gaz. vol. 184; p. 851.
Whitley, William P., assignor to Rawlings Manufacturing Company, St. Louis, Mo. Base-ball mitt. No. 1,045,232; Nov. 26; Gaz. vol. 184; p. 851.
Whitlock, Ira S. (See Whitlock, Leaman and I. S.)
Whitlock, Leaman and I. S., Ephratah, N. Y. Transmission-gearing. No. 1,041,541; Oct. 15; Gaz. vol. 183; p. 696.
Whitlow, Andrew, Georgetown, Ill. Railway-joint. No. 1,019,573; Mar. 5; Sp. p. 1275; Gaz. vol. 176; p. 191.
Whitman, Alfred A. (See Dock, Herman, assignor.)
Whitman, Irvin C., Dexter, Me. Printing-press punch. No. 1,029,481; June 11; Sp. p. 3068; Gaz. vol. 179; p. 514.
Whitman, James A., Grantwood, N. J. Apparatus for making phonograph-records. No. 1,030,364; June 25; Sp. p. 5024; Gaz. vol. 179; p. 896.
Whitman, Matilda S., St. John, New Brunswick, Canada. Device for teaching fractional values. No. 1,043,652; Nov. 5; Gaz. vol. 184; p. 215.
Whitman, Wilbur A., Wheaton, Ill. Plasterer's darby. No. 1,031,406; July 2; Gaz. vol. 180; p. 195.
Whitmore, Bez H., New York, N. Y. Cigarette. No. 1,020,864; Mar. 19; Sp. p. 3969; Gaz. vol. 176; p. 691.
Whitmore, Charles J., Bellaire, Ohio, assignor of one-fourth to E. P. Pieper and one-fourth to J. W. Pieper, Wheeling, W. Va. Sponge-drawer. No. 1,016,119; Jan. 30; Sp. p. 6644; Gaz. vol. 174; p. 1155.
Whitmore, Edward E., Chicago, Ill., assignor to The Curtain Supply Company, Newark, N. J. Curtain-fixture. No. 1,036,045; Aug. 20; Gaz. vol. 181; p. 623.
Whitmore, Glenn D. (See Shaw, Frank B., assignor.)
Whitmore, Thomas J., assignor to Tidewater Peanut Harvester Corporation, Dendron, Va. Machine for cleaning and stemming peanuts. No. 1,042,859; Oct. 29; Gaz. vol. 183; p. 1210.
Whitney, Albert W., Berkeley, Cal. Oven. No. 1,033,075; July 16; Gaz. vol. 180; p. 849.
Whitney, Ben W., Dale, N. D. Bob-sled. No. 1,026,014; May 14; Sp. p. 2009; Gaz. vol. 178; p. 347.
Whitney, Calvin M., and E. C. Van Leuven, assignors to The Miles Mnfg. Co. Inc., Jackson, Mich. Concrete-mixer. No. 1,038,698; Sept. 17; Gaz. vol. 182; p. 582.
Whitney Duplicating Check Company. (See Whitney, Linwood G., assignor.)
Whitney, Francis, Hopkinton, N. Y. Hub-cap. No. 1,037,814; Sept. 3; Gaz. vol. 182; p. 212.
Whitney, Fremont L., Merrill, Wis. Foldable table-leg. No. 1,039,868; Oct. 1; Gaz. vol. 183; p. 67.
Whitney, George E., Bridgeport, Conn., assignor, by mesne assignments, to The White Company, Cleveland, Ohio. Steam-generator. No. 1,032,459; July 16; Gaz. vol. 180; p. 640.
Whitney, George E., Yonkers, N. Y., assignor to The International Pavement Company, Hartford, Conn. Asphalt-block cooler. No. 1,033,751; July 23; Gaz. vol. 180; p. 1110.
Whitney, James L., Cleveland, Ohio. Gas-burning hot-air furnace. No. 1,024,757; Apr. 30; Sp. p. 6503; Gaz. vol. 177; p. 1145.
Whitney, John C. (See Claus, Robert C., assignor.)
Whitney, Linwood G., assignor to Whitney Duplicating Check Company, New York, N. Y. Manifold sales-book. No. 1,026,289; May 14; Sp. p. 2640; Gaz. vol. 178; p. 442.
Whitney Manufacturing Company, The. (See Belcher, Warren J., assignor.)
Whitney, William A., Rockford, Ill. Universal joint. No. 1,022,909; Apr. 9; Sp. p. 2473; Gaz. vol. 177; p. 421.
Whitney, Willie D., Holley, N. Y. Adjustable bracket. No. 1,028,515; June 4; Sp. p. 993; Gaz. vol. 179; p. 150.
Whitney, Willis R., Schenectady, N. Y., assignor to General Electric Company. Attaching filaments to leading-in wires. No. 1,013,914; Jan. 9; Sp. p. 1839; Gaz. vol. 174; p. 315.
Whitney, Willis R., Schenectady, N. Y., assignor to General Electric Company. Metal-filament lamp. No. 1,013,915; Jan. 9; Sp. p. 1840; Gaz. vol. 174; p. 315.
Whitney, Willis R., Schenectady, N. Y., assignor to General Electric Company. Purification of gases. No. 1,022,012; Apr. 2; Sp. p. 562; Gaz. vol. 177; p. 88.
Whitney, Willis R., Schenectady, N. Y., assignor to General Electric Company. Concentration of solids in liquids. No. 1,022,523; Apr. 9; Sp. p. 1623; Gaz. vol. 177; p. 289.
Whitney, Willis R., Schenectady, N. Y., assignor to General Electric Company. Manufacture of quartz apparatus. No. 1,022,910; Apr. 9; Sp. p. 2474; Gaz. vol. 177; p. 421.
Whitney, Willis R., Schenectady, N. Y., assignor to General Electric Company. Vapor electric apparatus. No. 1,023,286; Apr. 16; Sp. p. 3304; Gaz. vol. 177; p. 590.
Whitney, Willis R., Schenectady, N. Y., assignor to General Electric Company. Making incandescent lamps. No. 1,025,499; May 7; Sp. p. 880; Gaz. vol. 178; p. 137.
Whitney, Willis R., Schenectady, N. Y., assignor to General Electric Company. Purification of asbestos. No. 1,031,498; July 2; Gaz. vol. 180; p. 226.

Alphabetical list of patentees—Continued.

Whiton, Lucius E., New London, Conn. Centering-machine. No. 1,017,193; Feb. 13; Sp. p. 2145; Gaz. vol. 175; p. 367.
Whiton, Lucius E., New London, Conn. Chuck. No. 1,037,385; Sept. 3; Gaz. vol. 182; p. 70.
Whiton, Lucius E., New London, Conn. Work-holder. No. 1,046,523; Dec. 10; Gaz. vol. 185; p. 292.
Whittaker, Earl J., near Tumwater, Wash. Log-turner. No. 1,047,599; Dec. 17; Gaz. vol. 185; p. 698.
Whittaker, Thomas R., and G. W. Leith, Methuen, Mass. Steam-trap. No. 1,030,697; June 25; Sp. p. 5941; Gaz. vol. 179; p. 1015.
Whittall, Matthew J., *et al.*, trustees. (See Farmer, Frederick, assignor.)
Whittall, Matthew P., *et al.*, trustees. (See Farmer, Frederick, assignor.)
Whittam, Frederick F., Wollaston, Mass., assignor to H. D. Beach Company, Coshocton, Ohio. Toy bank. No. 1,048,774; Dec. 31; Gaz. vol. 185; p. 1166.
Whittemore, John M. (See Harrington, William T. C., assignor.)
Whitten, William M. (See Hall, Alfred, assignor.)
Whittier, Arthur, East Walpole, Mass. Drinking-fountain. No. 1,022,572; Apr. 9; Sp. p. 1726; Gaz. vol. 177; p. 304.
Whittier, Arthur, East Walpole, Mass. Drinking-fountain. No. 1,036,046; Aug. 20; Gaz. vol. 181; p. 623.
Whittier, John K., assignor to Kitson Machine Shop, Lowell, Mass. Condenser-lap machine. No. 1,034,849; Aug. 6; Gaz. vol. 181; p. 151.
Whittier, John K., assignor to Kitson Machine Shop, Lowell, Mass. Condenser-lap machine. No. 1,034,850; Aug. 6; Gaz. vol. 181; p. 152.
Whittier, John W., Rutherford, N. J., assignor to Scott Paper Company. Toilet-paper cabinet. No. 1,015,526; Jan. 23; Sp. p. 5373; Gaz. vol. 174; p. 921.
Whittier, Walter H., Grand Rapids, Mich. Automatic firearm. No. 1,019,937; Mar. 12; Sp. p. 1996; Gaz. vol. 176; p. 345.
Whittier, Walter H., Grand Rapids, Mich. Automatic firearm. No. 1,034,750; Aug. 6; Gaz. vol. 181; p. 117.
Whittier, Walter H., assignor to Grand Rapids Refrigerator Co., Grand Rapids, Mich. Coupling-ring for refrigerator-linings. No. 1,028,310; June 4; Sp. p. 538; Gaz. vol. 179; p. 79.
Whittingham, George H., Pikesville, assignor to Monitor Manufacturing Company, Baltimore, Md. Starter for electric motors. No. 1,023,979; Apr. 23; Sp. p. 4737; Gaz. vol. 177; p. 841.
Whittingham, George H., Pikesville, assignor to Monitor Manufacturing Company, Baltimore, Md. Motor-starter. No. 1,023,980; Apr. 23; Sp. p. 4740; Gaz. vol. 177; p. 842.
Whittington, Joseph H., Buffalo, assignor, by mesne assignments, to J. H. Price, Akron, N. Y. Back-pedaling coaster-brake. No. 1,023,347; Apr. 16; Sp. p. 3416; Gaz. vol. 177; p. 610.
Whittle, John F., Point Richmond, and H. D. Foster, Berkeley, Cal. Machine for forming jackets on piles. No. 1,026,939; May 21; Sp. p. 4108; Gaz. vol. 178; p. 700.
Whittome, John T., Tavistock, England. Road-sweeping machine. No. 1,042,860; Oct. 29; Gaz. vol. 183; p. 1210.
Whitton, Alexander. (See Speed and Whitton.)
Whitty, John J., Newport, R. I. Collar for piston-rings. No. 1,013,349; Jan. 2; Sp. p. 578; Gaz. vol. 174; p. 92.
Whitworth, Charles S., Cedar Falls, Iowa. Steering device for traction-engines. No. 1,034,550; Aug. 6; Gaz. vol. 181; p. 50.
Whitworth, Sam P., Merkel, Tex. Header. No. 1,015,368; Jan. 23; Sp. p. 5031; Gaz. vol. 174; p. 868.
Whitworth, Stanley, assignor to American Motors Company, Indianapolis, Ind. Universal-joint coupling. No. 1,043,493; Nov. 5; Gaz. vol. 184; p. 161.
Whoolery, Samuel, Brownfield, Pa. Gun-cleaner. No. 1,043,653; Nov. 5; Gaz. vol. 184; p. 215.
Whyte, John D., Manchester, England. Means for wetting yarns for use in doubling and twisting machinery. No. 1,035,929; Aug. 20; Gaz. vol. 181; p. 585.
Wiard, Edward S. (See Haultain and Wiard.)
Wiard, John B., Lynn, Mass., assignor to General Electric Company. Centrifugal clutch. No. 1,032,524; July 16; Gaz. vol. 180; p. 662.
Wiard, John B., Lynn, Mass., assignor to General Electric Company. Dynamo-electric machine. No. 1,043,887; Nov. 12; Gaz. vol. 184; p. 327.
Wiberg, Charles A., Lindstrom, Minn. Vehicle-gear. No. 1,019,108; Mar. 5; Sp. p. 219; Gaz. vol. 176; p. 35.
Wiberg, Peter E., Glen Ridge, N. J. Binding-post. No. 1,044,717; Nov. 19; Gaz. vol. 184; p. 644.
Wible, Charlie H., East McKeesport, Pa. Burial-casket. No. 1,027,453; May 28; Sp. p. 5205; Gaz. vol. 178; p. 913.
Wible, Thomas H., Grand Junction, Colo. Box-covering machine. No. 1,017,276; Feb. 13; Sp. p. 2325; Gaz. vol. 175; p. 395.
Wiborg, Charles G., Galesburg, Ill. Pump for vacuum-cleaners. No. 1,020,241; Mar. 12; Sp. p. 2635; Gaz. vol. 176; p. 447.
Wich, Ferdinand J., Baltimore, Md. Life-preserver. No. 1,014,546; Jan. 9; Sp. p. 3180; Gaz. vol. 174; p. 530.
Wichrowski, Ignacy, and J. Piotrowski, New York, N. Y. Steam-generator. No. 1,038,250; Sept. 10; Gaz. vol. 182; p. 393.
Wick, John, Council, Alaska. Separator and amalgamator. No. 1,027,952; May 28; Sp. p. 6280; Gaz. vol. 178; p. 1079.
Wickel, Fritz C., Paris, France. Manufacture of metal-foil paper substitutes for hot-embossing purposes. No. 1,047,867; Dec. 17; Gaz. vol. 185; p. 792.
Wickes, Benjamin C., *et al.* (See Graf, Richard, assignor.)
Wickett, Ed L., Keithsburg, Ill. Headlight. No. 1,035,668; Aug. 13; Gaz. vol. 181; p. 459.
Wickey, Andrew, East Chicago, Ind. Baling-press. No. 1,025,665; May 7; Sp. p. 1245; Gaz. vol. 178; p. 192.
Wickham, Elmer E., Windsor, Mo. Spring-wheel. No. 1,022,648; Apr. 9; Sp. p. 1896; Gaz. vol. 177; p. 331.
Wickham, Percy E., London, England, assignor to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Bleaching straw. No. 1,027,953; May 28; Sp. p. 6283; Gaz. vol. 178; p. 1080.
Wickman, Albin E., Peoria, Ill. Attachment for life-boats. No. 1,026,137; May 14; Sp. p. 2311; Gaz. vol. 178; p. 390.
Wickman, Henry J., assignor of one-half to C. E. Van Keuren, Howell, Mich. Attachment to friction-top cans. No. 1,020,589; Mar. 19; Sp. p. 3367; Gaz. vol. 176; p. 598.
Widder, Vincenz. (See Grünenwald and Widder.)
Widder, Vincenz, Riedlingen, Germany. Cultivator. No. 1,013,710; Jan. 2; Sp. p. 1370; Gaz. vol. 174; p. 214.
Widdis, Albert L., Detroit, Mich. Device for manufacturing wood fiber. No. 1,046,130; Dec. 3; Gaz. vol. 185; p. 114.
Wideman, Edmund C., Wilkes-Barre, Pa. Soap-powder sprayer. No. 1,038,251; Sept. 10; Gaz. vol. 182; p. 393.
Widen, August H., Beverly, Mass. Marking-gage. No. 1,040,078; Oct. 1; Gaz. vol. 183; p. 136.
Widmann, Frederick, and H. S. Wells, St. Louis, Mo., assignors to Otis Elevator Company, Jersey City, N. J. Elevator. No. 1,021,172; Mar. 26; Sp. p. 4603; Gaz. vol. 176; p. 845.
Widmark, Fredrick. (See Fabian and Widmark.)
Widmayer, Newton B., Yonkers, N. Y. Link-belt conveyer. No. 1,040,828; Oct. 8; Gaz. vol. 183; p. 424.
Widmer, Adolph, and S. Widmer, deceased, Paterson, N. J.; A. Widmer, executor. Batten structure for narrow-ware looms. No. 1,032,574; July 16; Gaz. vol. 180; p. 678.
Widmer, Adolph, and S., deceased, Paterson, N. J.; A. Widmer, executor. Shuttle for looms. No. 1,038,048; Sept. 10; Gaz. vol. 182; p. 326.
Widmer, Kate M. (See Mitchell, Ardon M., assignor.)
Widmer, Samuel. (See Widmer, Adolph and S.)
Widrich, Anton, New York, N. Y. Pocket-book and powder-puff. No. 1,049,184; Dec. 31; Gaz. vol. 185; p. 1305.
Wieber, Charles J., executor. (See Wieber, Frank W.)
Wieber, Frank W., deceased, Colorado Springs, Colo.; C. J. Wieber, executor. Resilient metal tire for vehicle-wheels. No. 1,034,942; Aug. 6; Gaz. vol. 181; p. 181.
Wieber, George, Syracuse, N. Y. Cutter. No. 1,020,865; Mar. 19; Sp. p. 3970; Gaz. vol. 176; p. 691.
Wiebke, Charles, Newark, N. J. Antifluctuating system for gas distribution. No. 1,033,364; July 23; Gaz. vol. 180; p. 986.
Wiechers, Herman I., Leon, Mexico. Telephone-pay-station cabinet. No. 1,019,574; Mar. 5; Sp. p. 1276; Gaz. vol. 176; p. 191.
Wieczorek, Joseph. (See Franzký and Wieczorek.)
Wiedebusch, William A., Fairmont, W. Va. Hot-water or steam heater. No. 1,024,660; Apr. 30; Sp. p. 6301; Gaz. vol. 177; p. 1110.
Wiedeman, Henry C., Detroit, Mich. Tap connection for kegs. No. 1,043,181; Nov. 5; Gaz. vol. 184; p. 49.
Wiedemann, Theodore, and J. H. Templin, Philadelphia, Pa., assignors to Keller Manufacturing Company. Dust separator and filtering mechanism for vacuum-cleaners. No. 1,044,613; Nov. 19; Gaz. vol. 184; p. 607.
Wieder, Henry G., London, England. Sound reproducing and recording instrument. No. 1,013,247; Jan. 2; Sp. p. 346; Gaz. vol. 174; p. 55.
Wiederecht, Harry J., New Philadelphia, Ohio. Steam-trap. No. 1,046,131; Dec. 3; Gaz. vol. 185; p. 114.
Wiederhold, Oscar, Jersey City N. J Incandescent gas-lamp. No. 1,043,182; Nov. 5; Gaz. vol. 184; p. 49.
Wiederhold, Oscar, Jersey City, N. J. Incandescent gas-burner. No. 1,048,016; Dec. 24; Gaz. vol. 185; p. 868.
Wiederholdt, Ernest F., St. Louis, Mo. Switch-point-throwing mechanism. No. 1,035,110; Aug. 6; Gaz. vol. 181; p. 236.
Wiederholdt, Ernest F., St. Louis, Mo. Concrete wall construction. No. 1,041,389; Oct. 15; Gaz. vol. 183; p. 645.

Alphabetical list of patentees—Continued.

Wiedstruck, Franz, Königgrätz, Austria-Hungary, assignor to Rheinische Metallwaaren- und Maschinenfabrik, Dusseldorf-Derendorf, Germany. Gun having a recoiling barrel. No. 1,039,869; Oct. 1; Gaz. vol. 183; p. 67.
Wiegand, Henry J., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Reinforced grid resistance. No. 1,038,252; Sept. 10; Gaz. vol. 182; p. 394.
Wiegel, Albert, Cassel, Germany. Necktie-holder. No. 1,022,807; Apr. 9; Sp. p. 2265; Gaz. vol. 177; p. 387.
Wiegel, Albert, Cassel, Germany. Scarf-holder. No. 1,028,311; June 4; Sp. p. 539; Gaz. vol. 179; p. 79.
Wieghard, Fritz, and H. Göbel, Jr., Heimburg, Germany. Machine for planting potatoes. No. 1,028,411; June 4; Sp. p. 767; Gaz. vol. 179; p. 116.
Wieland, Charles G., New York, N. Y. Propelling means for aerial vessels. No. 1,018,223; Feb. 20; Sp. p. 4416; Gaz. vol. 175; p. 759.
Wieland, George A. (See Aldrich and Wieland.)
Wielgolaski, Franz H. A., and O. Schönherr, Christiania, Norway, assignors to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Production of continuous electric arcs and apparatus therefor. No. 1,028,516; June 4; Sp. p. 994; Gaz. vol. 179; p. 151.
Wienberg, Ferdinand, Copenhagen, L. Jórgensen, C. Jespersen, and J. K. Jórgensen, Elsinore, Denmark. Machine for making cement pipes of any sectional form. No. 1,022,285; Apr. 2; Sp. p. 1123; Gaz. vol. 177; p. 179.
Wieprecht, Walter O. V., Leipzig, assignor to Adolf Bleichert & Company, Leipzig-Gohlis, Germany. Cableway and the like. No. 1,044,321; Nov. 12; Gaz. vol. 184; p. 476.
Wier, Inez G. (See O'Connor and Wier.)
Wiernek, Stanley, *et al.* (See Nalepka, Walenty, assignor.)
Wiernicki, John, Glassport, Pa. Wrench. No. 1,019,575; Mar. 5; Sp. p. 1279; Gaz. vol. 176; p. 191.
Wiesbader, Frederick. (See Oppenheim, Egon, assignor.)
Wiese, Hermann, Wallaceburg, Ontario, Canada. Refining sugar. No. 1,021,173; Mar. 26; Sp. p. 4606; Gaz. vol. 176; p. 845.
Wiese, John D., Manson, Iowa. Automatic door-guide. No. 1,040,829; Oct. 8; Gaz. vol. 183; p. 424.
Wiese, Theodore L., assignor of one-fourth to J. Froelich, one-fourth to W. J. Sarres, and one-fourth to L. B. Lamfrom, Milwaukee, Wis. Gas-stove lighter. No. 1,039,465; Sept. 24; Gaz. vol. 182; p. 863.
Wiese, Wilhelm, Bayenthal, Cologne, Germany. Tearing-up strip for tin-foil packages. No. 1,018,464; Feb. 27; Sp. p. 4933; Gaz. vol. 175; p. 872.
Wiesengrund, Bernhard, and W. F. Roberts, West Drayton, England. Toothed gearing. No. 1,019,001; Feb. 27; Sp. p. 6143; Gaz. vol. 175; p. 1056.
Wieser, Karl, Bredeney, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Mechanical time-fuse. No. 1,029,036; June 11; Sp. p. 2099; Gaz. vol. 179; p. 362.
Wieser, Karl, Bredeney, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Burning fuse for projectiles. No. 1,039,870; Oct. 1; Gaz. vol. 183; p. 68.
Wieser, Karl, and W. Schwartz, Bredeney, assignors to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Projectile for firing at airships. No. 1,025,500; May 7; Sp. p. 882; Gaz. vol. 178; p. 137.
Wiesner, Moritz, assignor to Yawman & Erbe Manufacturing Company, Rochester, N. Y. Filing-receptacle. No. 1,013,630; Jan. 2; Sp. p. 1172; Gaz. vol. 174; p. 186.
Wiest, Jonas H., Indianapolis, Ind. Cistern or catch-basin cleaner. No. 1,021,960; Apr. 2; Sp. p. 449; Gaz. vol. 177; p. 72.
Wiffler, Charles E. (See Coffin, Howard E., assignor.)
Wiffler, Charles E., Detroit, Mich. Oiling system. No. 1,046,524; Dec. 10; Gaz. vol. 185; p. 292.
Wigg, Charles, Upper Norwood, London, England. Apparatus for delivering tokens or counters. No. 1,047,470; Dec. 17; Gaz. vol. 185; p. 652.
Wiggen, Peter, assignor to J. P. Seeburg Piano Company, Chicago, Ill. Magazine-slot for coin-operated musical instruments. No. 1,014,107; Jan. 9; Sp. p. 2280; Gaz. vol. 174; p. 380.
Wiggin, Joseph M., Boston, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Work-support. No. 1,014,353; Jan. 9; Sp. p. 2823; Gaz. vol. 174; p. 467.
Wiggin, Joseph N. (See Mayer, Wiggin, and Cornelison.)
Wiggin, Joseph N., East Orange, assignor to H. B. Wiggin's Sons Company, Bloomfield, N. J. Wall-covering and making same. No. 1,044,322; Nov. 12; Gaz. vol. 184; p. 477.
Wiggin, Joseph N., East Orange, assignor to H. B. Wiggin's Sons Company, Bloomfield, N. J. Decorated covering and making the same. No. 1,044,323; Nov. 12; Gaz. vol. 184; p. 477.
Wiggins, Edgar S., Paris, Tenn. Adjustable clamping-support for spectacles and the like. No. 1,013,711; Jan. 2; Sp. p. 1372; Gaz. vol. 174; p. 215.
Wiggins, George G., assignor of two-thirds to C. O. Rice and N. MacDonald, Denver, Colo. Bath apparatus. No. 1,022,346; Apr. 2; Sp. p. 1237; Gaz. vol. 177; p. 198.
Wiggins, Harry G., Denver, Colo., assignor to The S. S. White Dental Manufacturing Company, Philadelphia, Pa. Porte-polisher. No. 1,039,235; Sept. 24; Gaz. vol. 182; p. 783.
Wiggins, Henry H., Pittsburgh, Pa. Rail chair and fastener. No. 1,042,993; Oct. 29; Gaz. vol. 183; p. 1255.
Wiggins, Oscar W., Pomona, Kans. Grain-guard for wagons. No. 1,025,601; May 7; Sp. p. 1107; Gaz. vol. 178; p. 172.
Wiggins, Richard M., assignor of one-half to E. R. Sheetz, Trenton, Mo. Lead-controller for valve-gear. No. 1,025,175; May 7; Sp. p. 146; Gaz. vol. 178; p. 25.
Wigginton, George P., Kalamazoo, Mich. Temporary binder. No. 1,022,452; Apr. 9; Sp. p. 1481; Gaz. vol. 177; p. 265.
Wigginton, George P., and F. W. Hodges, Kalamazoo, Mich.; said Hodges assignor to said Wigginton. Temporary binder or loose-sheet holder. No. 1,027,093; May 21; Sp. p. 4476; Gaz. vol. 178; p. 755.
Wigginton, Newton J., Winchester, Va. Spraying-compound mixer. No. 1,036,392; Aug. 20; Gaz. vol. 181; p. 747.
Wiggs, James A. (See Eastham, Albert L., assignor.)
Wight, Arthur M., New York, N. Y. Box. No. 1,043,378; Nov. 5; Gaz. vol. 184; p. 119.
Wight, Arthur M., New York, N. Y. Collapsible box. No. 1,043,379; Nov. 5; Gaz. vol. 184; p. 119.
Wightman, Elmer E., Chicago, Ill. Dental impression-tray. No. 1,044,614; Nov. 19; Gaz. vol. 184; p. 608.
Wightman, Robert J., Newark, N. J. Dispensing apparatus. No. 1,045,347; Nov. 26; Gaz. vol. 184; p. 891.
Wikner, Franz, Vienna, Austria-Hungary. Artificial tooth. No. 1,029,160; June 11; Sp. p. 2367; Gaz. vol. 179; p. 403.
Wikschtröm, Jakob, Dusseldorf, Germany. Machine for making wire nails and pins. No. 1,014,732; Jan. 16; Sp. p. 3657; Gaz. vol. 174; p. 625.
Wikström, Malcolm U., Storfors, Sweden. Mechanism for piercing metallic ingots or billets. No. 1,022,524; Apr. 9; Sp. p. 1626; Gaz. vol. 177; p. 289.
Wilber, Elmer J., Brooklyn, Mich. Mold. No. 1,029,095; June 11; Sp. p. 2232; Gaz. vol. 179; p. 381.
Wilber, Thomas J. (See Godin, Eusebe, assignor.)
Wilbraham, Thomas G., Alloway, N. J. Dirigible automobile-lamp. No. 1,025,602; May 7; Sp. p. 1108; Gaz. vol. 178; p. 172.
Wilbur, Belden H. G., assignor of one-third to G. S. Elstun, Colorado Springs, Colo. Combined plow and harrow. No. 1,018,856; Feb. 27; Sp. p. 5817; Gaz. vol. 175; p. 1005.
Wilbuschewitsch, Mose, Nischninovgorod, Kanavino, Russia. Apparatus for producing catalysts. No. 1,016,864; Feb. 6; Sp. p. 1392; Gaz. vol. 175; p. 215.
Wilbuschewitsch, Mose, Nischninovgorod, Kanavino, Russia. Regenerating consumed catalysts. No. 1,022,347; Apr. 2; Sp. p. 1239; Gaz. vol. 177; p. 199.
Wilbuschewitsch, Mose, Nischninovgorod, Kanavino, Russia. Converting fats, oils, and fish-oils into like bodies of higher melting-point. No. 1,024,758; Apr. 30; Sp. p. 6505; Gaz. vol. 177; p. 1145.
Wilbuschewitsch, Mose, Nischninovgorod, Kanavino, Russia. Manufacturing catalysts. No. 1,029,901; June 18; Sp. p. 4010; Gaz. vol. 179; p. 697.
Wilck, Ulrich, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Fuse and adjusting-key therefor. No. 1,028,924; June 11; Sp. p. 1869; Gaz. vol. 179; p. 323.
Wilcken, Charles H., Monarch, Wyo. Vehicle-spring. No. 1,034,551; Aug. 6; Gaz. vol. 181; p. 50.
Wilcomb, Frank, assignor to Wilcomb Machine Company, Norristown, Pa. Circular-knitting machine for making hosiery and the like. No. 1,049,020; Dec. 31; Gaz. vol. 185; p. 1251.
Wilcomb Machine Company. (See Wilcomb, Frank, assignor.)
Wilcox, Albert C., Wheeling, W. Va. Glass-blowing apparatus. No. 1,029,779; June 18; Sp. p. 3708; Gaz. vol. 179; p. 654.
Wilcox, Arthur F., Kalispell, Mont. Box. No. 1,023,908; Apr. 23; Sp. p. 4584; Gaz. vol. 177; p. 817.
Wilcox, Crittenden & Company. (See Birdsey, Seeley P., assignor.)
Wilcox, Ernest C., assignor to The Connecticut Telephone and Electric Company, Meriden, Conn. Magneto. No. 1,027,023; May 21; Sp. p. 4288; Gaz. vol. 178; p. 729.
Wilcox, Ernest C., and B. L. Lawton, assignors to The Connecticut Telephone and Electric Company, Meriden, Conn. Plug-coil. No. 1,036,760; Aug. 27; Gaz. vol. 181; p. 903.
Wilcox, Frank, Cedar Falls, Iowa. Ejecting means for washboilers. No. 1,032,095; July 9; Gaz. vol. 180; p. 472.
Wilcox, Frank E., *et al.* (See McCue, Charles T., assignor.)
Wilcox, Frank E., Mechanicsburg, Pa. Fifth-wheel for vehicles. No. 1,022,013; Apr. 2; Sp. p. 563; Gaz. vol. 177; p. 88.
Wilcox, Horace C., Hazleton, Pa. Photographic developing apparatus. No. 1,016,924; Feb. 6; Sp. p. 1527; Gaz. vol. 175; p. 237.
Wilcox, John, Nisbet, N. D. Toy pistol. No. 1,016,310; Feb. 6; Sp. p. 167; Gaz. vol. 175; p. 25.

Wilcox, John M., Chicago Heights, Ill., assignor, by mesne assignments, to The Kilbourne & Jacobs Manufacturing Company, Columbus, Ohio. Pneumatic cut-off for dump-cars. No. 1,029,247; June 11; Sp. p. 2553; Gaz. vol. 179; p. 432.
Wilcox, Ralph, Negaunee, Mich. Shell for core-barrels for rotary drills. No. 1,019,707; Mar. 5; Sp. p. 1517; Gaz. vol. 176; p. 235.
Wilcox, Richard L., assignor to The Waterbury Farrel Foundry and Machine Company, Waterbury, Conn. Stop mechanism. No. 1,023,539; Apr. 16; Sp. p. 3789; Gaz. vol. 177; p. 669.
Wilcox, Richard L., assignor to The Waterbury Farrel Foundry and Machine Company, Waterbury, Conn. Slotting-machine. No. 1,029,653; June 18; Sp. p. 3425; Gaz. vol. 179; p. 609.
Wilcox, Richard L., assignor to The Waterbury Farrel Foundry and Machine Company, Waterbury, Conn. Machine for making collapsible-tube caps. No. 1,033,043; July 16; Gaz. vol. 180; p. 837.
Wilcox, Richard L., assignor to The Waterbury Farrel Foundry and Machine Company, Waterbury, Conn. Die-block. No. 1,035,400; Aug. 13; Gaz. vol. 181; p. 369.
Wilcox, Richard L., assignor to The Waterbury Farrel Foundry and Machine Company, Waterbury, Conn. Mechanical movement. No. 1,036,047; Aug. 20; Gaz. vol. 181; p. 624.
Wilcox, Richard L., assignor to The Waterbury Farrel Foundry and Machine Company, Waterbury, Conn. Attachment for feeding devices. No. 1,036,048; Aug. 20; Gaz. vol. 181; p. 624.
Wilcox, Richard L., assignor to The Waterbury Farrel Foundry and Machine Company, Waterbury, Conn. Blank-holding device. No. 1,046,700; Dec. 10; Gaz. vol. 185; p. 355.
Wilcox & White Company, The. (See Donovan, Silas S., assignor.)
Wilcox & White Company, The. (See White, Frank C., assignor.)
Wilcoxen, John E., South Bend, Ind. Molding-machine. No. 1,015,463; Jan. 23; Sp. p. 5255; Gaz. vol. 174; p. 900.
Wild, Clement A., Oldham, England. Knife-cleaner. No. 1,024,541; Apr. 30; Sp. p. 6020; Gaz. vol. 177; p. 1070.
Wild, Frederick W., Jr., Baltimore, Md., assignor to Burt Machine Company. Labeling-machine. No. 1,041,390; Oct. 15; Gaz. vol. 183; p. 646.
Wild, Frederick W., Jr., Baltimore, Md., assignor to Burt Machine Company. Labeling-machine. No. 1,041,542; Oct. 15; Gaz. vol. 183; p. 696.
Wild, Frederick W., Jr., Baltimore, Md., assignor to Burt Machine Company. Labeling-machine. No. 1,041,543; Oct. 15; Gaz. vol. 183; p. 697.
Wild, Günther P., assignor to F. W. Schmidt, Philadelphia, Pa. Thermostat. No. 1,013,854; Jan. 2; Sp. p. 1688; Gaz. vol. 174; p. 266.
Wild, Heinrich, assignor to Firm of C. Zeiss, Jena, Germany. Tachometric telescope. No. 1,016,311; Feb. 6; Sp. p. 169; Gaz. vol. 175; p. 26.
Wild, Heinrich, assignor to The Firm of C. Zeiss, Jena, Germany. Spirit-level with a reflecting system. No. 1,034,049; July 30; Gaz. vol. 180; p. 1244.
Wild, John T., assignor to The Whitin Machine Works, Whitinsville, Mass. Apparatus for grinding top-flats. No. 1,031,895; July 9; Gaz. vol. 180; p. 406.
Wild, Merton G., assignor of one-half to F. G. Akin, Loveland, Colo. Sugar-manufacturing apparatus. No. 1,034,176; July 30; Gaz. vol. 180; p. 1287.
Wild, Paul C., Rochester, N. Y. Electric coupling. No. 1,014,108; Jan. 9; Sp. p. 2282; Gaz. vol. 174; p. 380.
Wild, Wilhelm. (See Bosch and Wild.)
Wilde, William, Urbana, Ill. Combined tie and rail-fastener. No. 1,018,538; Feb. 27; Sp. p. 5165; Gaz. vol. 175; p. 898.
Wilden, Johann H., Dusseldorf, Germany. Putty-guard. No. 1,048,250; Dec. 24; Gaz. vol. 185; p. 945.
Wilder, Charles J., Auburn, Mass. Machine for weighing liquids. No. 1,024,874; Apr. 30; Sp. p. 6746; Gaz. vol. 177; p. 1187.
Wilder, Frank B. (See Yates, Gettis W., assignor.)
Wilder, Herbert J. (See Gordon, Waldo C., assignor.)
Wilder, James H., Randall, Kans. Target-trap. No. 1,038,700; Sept. 17; Gaz. vol. 182; p. 583.
Wilder, Norman B., Morrison, Ill. Door-spring. No. 1,045,652; Nov. 26; Gaz. vol. 184; p. 1000.
Wilderman, Emil, Carlstadt, N. J., assignor to Habicht, Braun and Company, New York, N. Y. Nut-cracking machine. No. 1,043,555; Nov. 5; Gaz. vol. 184; p. 183.
Wildermann, Meyer, Ealing, London, England. Manufacture of ebonites resisting the action of chlorin. No. 1,022,014; Apr. 2; Sp. p. 564; Gaz. vol. 177; p. 89.
Wilding, John. (See Houghton, George F. C., assignor.)
Wildman, Frank B., and G. L. Ballard, assignors to Wildman Mfg. Co., Norristown, Pa. Welt-knitting machine. No. 1,047,355; Dec. 17; Gaz. vol. 185; p. 613.
Wildman, Holland R., York, Nebr. Illuminated license-number and signal for vehicles. No. 1,037,386; Sept. 3; Gaz. vol. 182; p. 70.
Wildman Mfg. Co. (See Wildman and Ballard, assignors.)
Wildmo, Benjamin C., Berner, Minn. Wrench. No. 1,042,736; Oct. 29; Gaz. vol. 183; p. 1168.
Wilds, John L., Darlington, S. C. Winding-machine. No. 1,014,860; Jan. 16; Sp. p. 3957; Gaz. vol. 174; p. 669.
Wiler, Carl, Chicago, Ill., assignor, by mesne assignments, to General Electric Company. Interlocking device for remote-control switches. No. 1,024,238; Apr. 23; Sp. p. 5330; Gaz. vol. 177; p. 934.
Wiles, Edwin L., Stony Point, N. Y. Operating brick-kilns. No. 1,033,138; July 23; Gaz. vol. 180; p. 909.
Wiley, Andrew J., Boise, Idaho. Metal flume. No. 1,019,870; Mar. 12; Sp. p. 1841; Gaz. vol. 176; p. 323.
Wiley, Andrew J., Boise, Idaho. Metal flume. No. 1,019,871; Mar. 12; Sp. p. 1843; Gaz. vol. 176; p. 323.
Wiley, Clarence H., Hartford, Conn. Forming binder-hooks. No. 1,048,619; Dec. 31; Gaz. vol. 185; p. 1111.
Wiley, Edgar C., Lynchburg, Va. Grate. No. 1,015,527; Jan. 23; Sp. p. 5377; Gaz. vol. 174; p. 921.
Wiley, Edgar C., assignor of one-half to Lynchburg Foundry Company, Lynchburg, Va. Machine for jarring sand molds. No. 1,039,622; Sept. 24; Gaz. vol. 182; p. 918.
Wiley, Edgar C., assignor of one-half to Lynchburg Foundry Co., Lynchburg, Va. Valve mechanism for jarring-machines. No. 1,039,678; Sept. 24; Gaz. vol. 182; p. 937.
Wiley, Thomas F., *et al.* (See Dawson, Robert C., assignor.)
Wilfley, Arthur R., Denver, Colo. Concentrator. No. 1,021,961; Apr. 2; Sp. p. 451; Gaz. vol. 177; p. 72.
Wilfley, Arthur R., Denver, Colo. Concentrator. No. 1,043,280; Nov. 5; Gaz. vol. 184; p. 83.
Wilhelm, Charles, West Hartford, and J. B. Goetz, Hartford, Conn. Kindling device. No. 1,043,986; Nov. 12; Gaz. vol. 184; p. 362.
Wilhelm, Dee W., assignor of one-half to J. H. Williams, De Leon, Tex. Wagon or vehicle tongue support. No. 1,014,928; Jan. 16; Sp. p. 4111; Gaz. vol. 174; p. 692.
Wilhelm, Eugen, New York, N. Y. Coloring wood. No. 1,042,182; Oct. 22; Gaz. vol. 183; p. 948.
Wilhelm, Lane, *et al.* (See Wilhelm, Oliver P., assignor.)
Wilhelm, Oliver P., Michigan City, Ind. Air-brake-hose coupling. No. 1,022,453; Apr. 9; Sp. p. 1486; Gaz. vol. 177; p. 266.
Wilhelm, Oliver P., assignor to himself, L. and S. Wilhelm, Michigan City, Ind. Air-brake coupling. No. 1,041,391; Oct. 15; Gaz. vol. 183; p. 646.
Wilhelm, Santford, *et al.* (See Wilhelm, Oliver P., assignor.)
Wilhelmi, Otto, Feldmeilen, near Zurich, Switzerland, assignor to R. Wolle, Leipzig, Germany. Beton or concrete sleeper with resilient rail-supports. No. 1,017,028; Feb. 13; Sp. p. 1769; Gaz. vol. 175; p. 308.
Wilhelmsen, Christian, Gulfport, Miss. Journal-box or attachment therefor. No. 1,033,293; July 23; Gaz. vol. 180; p. 963.
Wilhjelm, Sophus J. E., Brooklyn, N. Y. Pin safety-lock. No. 1,015,603; Jan. 23; Sp. p. 5546; Gaz. vol. 174; p. 950.
Wilhoit, William S., *et al.* (See Bradley, Clarence J., assignor.)
Wilk, Anthony, Evanston, Ill. Water-craft. No. 1,023,699; Apr. 16; Sp. p. 4100; Gaz. vol. 177; p. 720.
Wilk, Charles J., and G. F. Holtz, Rochester, N. Y. Multicompartment shaker. No. 1,039,236; Sept. 24; Gaz. vol. 182; p. 783.
Wilke, Frank J., Little Rock, Ark. Elastic-fluid turbine. No. 1,049,185; Dec. 31; Gaz. vol. 185; p. 1305.
Wilkenhoner, Hilda. (See Bohnsack and Wilkenhoner.)
Wilkening, Ludwig, Hanover, Germany. Motor-car seat. No. 1,025,038; Apr. 30; Sp. p. 7069; Gaz. vol. 177; p. 1242.
Wilker, Henry J., assignor of one-half to C. Geish, Pittsburgh, Pa. Wrench. No. 1,039,466; Sept. 24; Gaz. vol. 182; p. 863.
Wilkerson, James R. (See Christopher, William E., assignor.)
Wilkerson, Thurston A., Windom, Tex. Scaffold-bracket. No. 1,036,945; Aug. 27; Gaz. vol. 181; p. 964.
Wilkes-Barre Silk Company. (See Macfarlane, George F., assignor.)
Wilkes, Hardy T., Greenville, assignor of one-half to J. H. Boyd, Olustee, Fla. Gate-latch. No. 1,028,646; June 4; Sp. p. 1255; Gaz. vol. 179; p. 193.
Wilkes, Paul, assignor of one-third to H. R. Brady and one-third to J. A. Hoover, Cleveland, Ohio. Adjustable elastic automobile-wheel. No. 1,044,324; Nov. 12; Gaz. vol. 184; p. 477.
Wilkin, William M., Erie, Pa. Log-turning mechanism. No. 1,029,482; June 11; Sp. p. 3069; Gaz. vol. 179; p. 514.
Wilkin, William M., Erie, Pa. Conveyer-chain. No. 1,031,499; July 2; Gaz. vol. 180; p. 227.
Wilkins, Charles L., Peoria, Ill. Water-supply system. No. 1,015,464; Jan. 23; Sp. p. 5256; Gaz. vol. 174; p. 901.
Wilkins, Jacob R., Yonkers, N. Y. Embroidery-work holder. No. 1,016,463; Feb. 6; Sp. p. 518; Gaz. vol. 175; p. 80.
Wilkins, Joseph B., *et al.* (See Zaring, Leander B., assignor.)
Wilkins, Thomas B. (See Walker, Gene L., assignor.)
Wilkins, Vance P. (See Walsh, Harry C. H., assignor.)

Alphabetical list of patentees—Continued.

Wilkinson, Albert, assignor of one-half to G. G. Wilson, Chicago, Ill. Apparatus for forming characters out of sheet material. No. 1,048,775; Dec. 31; Gaz. vol. 185; p. 1166.
Wilkinson, Charles C., Coleman, Tex. Wire-winding device. No. 1,024,384; Apr. 23; Sp. p. 5582; Gaz. vol. 177; p. 979.
Wilkinson, Charles L., Mena, Ark. Liquid-fuel burner. No. 1,047,471; Dec. 17; Gaz. vol. 185; p. 653.
Wilkinson, Eleazar T., assignor to David Lupton's Sons Company, Philadelphia, Pa. Retaining device for window-panes. No. 1,023,479; Apr. 16; Sp. p. 3675; Gaz. vol. 177; p. 651.
Wilkinson, Francis E., Oakland, Cal. Street-lighting crane. No. 1,036,393; Aug. 20; Gaz. vol. 181; p. 748.
Wilkinson, Glenn A., and A. E. Osborn, Marion, Ind. Wrapping-paper cabinet. No. 1,039,344; Sept. 24; Gaz. vol. 182; p. 821.
Wilkinson, James, Providence, R. I., assignor to General Electric Company. Centrifugal pump. No. 1,013,248; Jan. 2; Sp. p. 349; Gaz. vol. 174; p. 55.
Wilkinson, James, Providence, R. I., assignor, by mesne assignments, to General Electric Company. Turbine-valve mechanism. No. 1,021,224; Mar. 26; Sp. p. 4710; Gaz. vol. 176; p. 862.
Wilkinson, James, Schenectady, N. Y., assignor to General Electric Company. Packing for elastic-fluid turbines. No. 1,021,225; Mar. 26; Sp. p. 4716; Gaz. vol. 176; p. 862.
Wilkinson, James, Schenectady, N. Y., assignor to General Electric Company. Controller mechanism for turbines. No. 1,021,226; Mar. 26; Sp. p. 4720; Gaz. vol. 176; p. 863.
Wilkinson, James, Schenectady, N. Y., assignor to General Electric Company. Elastic-fluid turbine. No. 1,021,754; Mar. 26; Sp. p. 5817; Gaz. vol. 176; p. 1043.
Wilkinson, Joe, assignor to The Bradford Dyers' Association, Limited, Bradford, England. Manufacture of textile fabric. No. 1,021,712; Mar. 26; Sp. p. 5721; Gaz. vol. 176; p. 1028.
Wilkinson, John, assignor to H. H. Franklin Manufacturing Company, Syracuse, N. Y. Carbureter. No. 1,038,699; Sept. 17; Gaz. vol. 182; p. 583.
Wilkinson, Lafayette A., Philadelphia, Pa. Clasp. No. 1,029,654; June 18; Sp. p. 3429; Gaz. vol. 179; p. 610.
Wilkinson, Louis H. (See Savage and Wilkinson.)
Wilkinson, Melville C., Paloverde Valley, Cal. Apparatus for compressing and distributing air under pressure. No. 1,017,835; Feb. 20; Sp. p. 3540; Gaz. vol. 175; p. 622.
Wilkinson, Nathan, Milwaukee, Wis., assignor to Allis-Chalmers Company. Circuit-controlling apparatus. No. 1,016,661; Feb. 6; Sp. p. 983; Gaz. vol. 175; p. 149.
Wilkinson, Nathan, Milwaukee, Wis., assignor to Allis-Chalmers Company. Thermostatic time-element device. No. 1,030,555; June 25; Sp. p. 5491; Gaz. vol. 179; p. 963.
Wilkinson, Samuel Q., Belle Vernon, Pa. Acid-tank. No. 1,036,761; Aug. 27; Gaz. vol. 181; p. 903.
Wilkinson, Theodore S., Myrtle Grove, La. Revetment for levees or other embankments. No. 1,048,251; Dec. 24; Gaz. vol. 185; p. 945.
Wilkinson, Thomas B., Bakersfield, Cal. Well-pump and valve mechanism therefor. No. 1,020,337; Mar. 12; Sp. p. 2806; Gaz. vol. 176; p. 476.
Wilkinson, Wilcie W., assignor of one-half to F. R. Sepulveda, Orcutt, Cal. Casing-elevator. No. 1,047,472; Dec. 17; Gaz. vol. 185; p. 653.
Wilkinson, William S., Aurora, S. D. Pipe-wrench. No. 1,037,387; Sept. 3; Gaz. vol. 182; p. 70.
Wilks, John B. (See Burghoff and Wilks.)
Will, Joseph P., Jersey City, N. J. Suspension device for automobiles. No. 1,040,079; Oct. 1; Gaz. vol. 183; p. 136.
Willans & Robinson. (See Peache, James C., assignor.)
Willard, Carl L., Denver, Colo. Parachute. No. 1,028,517; June 4; Sp. p. 998; Gaz. vol. 179; p. 151.
Willard, Charles H., Pasadena, Cal., assignor of one-half to D. Rowley, Gila Bend, Ariz. Automobile wheel and axle. No. 1,034,378; July 30; Gaz. vol. 180; p. 1358.
Willard, Charles H., Pasadena, Cal., assignor of one-half to D. Rowley, Gila Bend, Ariz. Steering-gear. No. 1,045,922; Dec. 3; Gaz. vol. 185; p. 43.
Willard, George M., Cottonwood, Ariz. Refrigerator. No. 1,018,539; Feb. 27; Sp. p. 5166; Gaz. vol. 175; p. 898.
Willard, James R., Iaeger, W. Va. Seat. No. 1,041,213; Oct. 15; Gaz. vol. 183; p. 586.
Willard, Otto H., Chicago, Ill. Egg-separator. No. 1,029,902; June 18; Sp. p. 4011; Gaz. vol. 179; p. 697.
Willard, Theodore A., Cleveland, Ohio. Reversible lamp-base. No. 1,020,732; Mar. 19; Sp. p. 3676; Gaz. vol. 176; p. 647.
Willard, Theodore A., Cleveland, Ohio. Incandescent lamp. No. 1,048,017; Dec. 24; Gaz. vol. 185; p. 868.
Willard, Will W., Saginaw, Mich. Shim for railway-ties. No. 1,026,376; May 14; Sp. p. 2851; Gaz. vol. 178; p. 472.
Willcox & Gibbs Sewing Machine Co. (See Tabor, Albert B., assignor.)
Willcox & Gibbs Sewing Machine Company. (See Borton, Stockton, assignor.)
Willcox & Gibbs Sewing Machine Company. (See Merritt, Arthur A., assignor.)
Willcox, Oswin W., Dover, N. J. Yeast-wort and producing the same. No. 1,044,615; Nov. 19; Gaz. vol. 184; p. 608.
Willems, Louis J., Kenosha, Wis. Wire fabric. No. 1,032,037; July 9; Gaz. vol. 180; p. 453.
Willenborg, Clemens B., Dyersville, Iowa. Litter-carrier. No. 1,022,763; Apr. 9; Sp. p. 2177; Gaz. vol. 177; p. 373.
Willers, Julius. (See Eldridge and Willers.)
Willes, Charles, assignor of one-half to C. E. Cole, East Auburn, Cal. Washing-machine. No. 1,026,540; May 14; Sp. p. 3180; Gaz. vol. 178; p. 526.
Willet, Peter L., Shiloh, Ohio. Seed-cleaning machine. No. 1,017,631; Feb. 13; Sp. p. 3054; Gaz. vol. 175; p. 515.
Willet, Peter L., Shiloh, Ohio. Seed-cleaner. No. 1,030,260; June 18; Sp. p. 4758; Gaz. vol. 179; p. 819.
Willets, William C., Minneapolis, assignor to H. L. Collins Company, St. Paul, Minn. Folding box. No. 1,044,960; Nov. 19; Gaz. vol. 184; p. 727.
Willett, George J., Milwaukee, Wis. Safety lathe-dog. No. 1,046,525; Dec. 10; Gaz. vol. 185; p. 293.
Willett, George R., Pittsburgh, Pa. Fuse. No. 1,028,647; June 4; Sp. p. 1256; Gaz. vol. 179; p. 193.
Willett, Robert A., Warren, Ohio, assignor of one-half to E. J. Maxwell and one-half to G. M. Hughson, Los Angeles, Cal. Tire-protector. No. 1,040,246; Oct. 1; Gaz. vol. 183; p. 192.
Willetts, William R., assignor to American Pin Company, Waterbury, Conn. Waste-fixture. No. 1,018,021; Feb. 20; Sp. p. 3969; Gaz. vol. 175; p. 688.
Willey, John A., Waterloo, Iowa. Power-hammer. No. 1,038,999; Sept. 17; Gaz. vol. 182; p. 686.
Willford Manufacturing Company. (See Ingraham, Alexander, assignor.)
Willhide, Bruce, Grafton, W. Va., assignor of one-half to J. R. Deegan, Bellaire, Ohio. Piston-cylinder. No. 1,048,018; Dec. 24; Gaz. vol. 185; p. 869.
Willi, Otto B., Youngstown, Ohio. Music-leaf holder and clamp. No. 1,023,403; Apr. 16; Sp. p. 3529; Gaz. vol. 177; p. 628.
William B. Pollock Company, The. (See McKelvey, William W., assignor.)
William B. Pollock Company, The. (See Sherman, Erwin C., assignor.)
William B. Pollock Company, The. (See Sherman, McKelvey, and Reilly, assignors.)
William Eastwood & Son Company. (See Dunn, Alfred W., assignor.)
William Galloway Company. (See Gales, Nicholas W., assignor.)
William Galloway Company. (See Mandt, Gunder G., assignor.)
William Galloway Company. (See Wilson, Dalton K., assignor.)
William J. Faul Co. (See Faul, Edwin L., assignor.)
William Mann Company. (See Snyder, Harry D., assignor.)
William Mitchell (Pens) Limited. (See Mitchell, William B., assignor.)
William Schimper & Company. (See Babst, Joseph, assignor.)
William Sellers & Company. (See Vold, Lars H., assignor.)
William Sellers & Company. (See Vold, Lars H., assignor.) (Reissue.)
William Shakespeare, Jr., Company. (See Schmid, William, assignor.)
William Wharton, Jr., & Company. (See Angerer, Victor, assignor.)
William Wharton, Jr., & Company. (See Cooke, Warner B., assignor.)
William Wharton, Jr., & Company. (See Corts, August, assignor.)
Williams, Agnes C. (See Williams, John T., assignor.)
Williams, Alan. (See Macfarlane, Burge, and Williams.)
Williams, Albert, St. Louis, Mo. Vehicle-wheel. No. 1,015,864; Jan. 30; Sp. p. 6098; Gaz. vol. 174; p. 1063.
Williams, Alfred, Philadelphia, Pa. Gas and smoke burning furnace or stove. No. 1,042,737; Oct. 29; Gaz. vol. 183; p. 1168.
Williams, Alfred D., Glassport, Pa. Tie and rail-fastener. No. 1,013,712; Jan. 2; Sp. p. 1374; Gaz. vol. 174; p. 215.
Williams, Alfred S., London, England. Spring-wheel. No. 1,033,645; July 23; Gaz. vol. 180; p. 1078.
Williams, Andrew J. and C. E., Sturgis, assignors to R. W. McMillan and L. G. Dessel, Vale, S. D. Tomato-peeler. No. 1,023,700; Apr. 16; Sp. p. 4102; Gaz. vol. 177; p. 720.
Williams, Annie E., Gleichen, Alberta, Canada. Skirt-elevator. No. 1,039,871; Oct. 1; Gaz. vol. 183; p. 68.
Williams, Ansel, Fulton, Mo. Ironing-table. No. 1,021,285; Mar. 26; Sp. p. 4842; Gaz. vol. 176; p. 883.
Williams, Arthur F., assignor to Williams Patent Crusher and Pulverizer Company, St. Louis, Mo. Pulverizer. No. 1,014,191; Jan. 9; Sp. p. 2440; Gaz. vol. 174; p. 409.

Alphabetical list of patentees—Continued.

Williams, Arthur V., San Francisco, Cal. Boiler-gage connection. No. 1,025,354; May 7; Sp. p. 551; Gaz. vol. 178; p. 86.
Williams, Bert C., Maricopa, assignor to S. A. Guiberson, Jr., Coalinga, Cal. Casing-elevator. No. 1,045,764; Nov. 26; Gaz. vol. 184; p. 1038.
Williams, Brown and Earle. (See Holst, Lodewyk J. R., assignor.)
Williams, Brown and Earle. (See Metzger, Ferdinand F., assignor.)
Williams, Brown and Earle *et al.* (See Williams, Henry S., assignor.)
Williams, Charle C., assignor to The G. H. Williams Company, Cleveland, Ohio. Sparking device for internal-combustion engines. No. 1,029,903; June 18; Sp. p. 4012; Gaz. vol. 179; p. 697.
Williams, Charles A., assignor to Briscoe Manufacturing Company, Detroit, Mich. Machine for forming multiple-unit tubes. No. 1,028,312; June 4; Sp. p. 539; Gaz. vol. 179; p. 79.
Williams, Charles D. (See Hanson, Bennie P., assignor.)
Williams, Charles E. (See Bedford and Williams.)
Williams, Charles E. (See Williams, Andrew J. and C. E.)
Williams, Charles E. (See Woods and Williams.)
Williams, Charles E., Chicago, Ill. Audiphone-transmitter. No. 1,026,231; May 14; Sp. p. 2524; Gaz. vol. 178; p. 422.
Williams, Charles H., Wilkinsburg, Pa. Stoker for locomotives. No. 1,043,987; Nov. 12; Gaz. vol. 184; p. 362.
Williams, Charles H., Edenton, N. C. Hair-brush comb-case. No. 1,047,868; Dec. 17; Gaz. vol. 185; p. 792.
Williams, Charles H., Jr., assignor to Chicago Railway Equipment Company, Chicago, Ill. Adjustable brake-rod. No. 1,019,872; Mar. 12; Sp. p. 1845; Gaz. vol. 176; p. 324.
Williams, Charles H., Jr., assignor to Chicago Railway Equipment Company, Chicago, Ill. Brake-hanger. No. 1,033,139; July 23; Gaz. vol. 180; p. 909.
Williams, Charles I., Utica, N. Y. Headlight. No. 1,035,504; Aug. 13; Gaz. vol. 181; p. 403.
Williams, Charles I., Utica, N. Y. Headlight. No. 1,041,392; Oct. 15; Gaz. vol. 183; p. 647.
Williams, Charles O., St. Louis, Mo., assignor to F. E. Arnold, Ionia, Mich. Carbureter. No. 1,025,553; May 7; Sp. p. 1006; Gaz. vol. 178; p. 155.
Williams, Charles S., Carthage, Mo. Shoe brushing and scraping device. No. 1,021,081; Mar. 26; Sp. p. 4399; Gaz. vol. 176; p. 816.
Williams, Charles T. (See Dixon, Allen, assignor.)
Williams, Charles W., New York, N. Y. Gas-stove. No. 1,038,253; Sept. 10; Gaz. vol. 182; p. 394.
Williams, Clarence A., Chicago, Ill. Truck. No. 1,038,809; Sept. 17; Gaz. vol. 182; p. 622.
Williams, Clem L., Attica, Ind. Switch-stand. No. 1,018,857; Feb. 27; Sp. p. 5819; Gaz. vol. 175; p. 1006.
Williams, Curles T., Trenton, N. J. Safety automobile-crank. No. 1,042,303; Oct. 22; Gaz. vol. 183; p. 987.
Williams, David C., Wilkeson, Wash. Spool and implement holder. No. 1,024,958; Apr. 30; Sp. p. 6918; Gaz. vol. 177; p. 1216.
Williams, David C., Wilkeson, Wash. Spool and implement holder. No. 1,049,021; Dec. 31; Gaz. vol. 185; p. 1251.
Williams, David T., Paterson, N. J., assignor of one-half to F. L. Connable, Wilmington, Del. Feed-water heater. No. 1,039,000; Sept. 17; Gaz. vol. 182; p. 687.
Williams, Dick B., New Orleans, La. Wire-reel. No. 1,031,155; July 2; Gaz. vol. 180; p. 109.
Williams, Dick B., New Orleans, La. Bundling-machine. No. 1,031,156; July 2; Gaz. vol. 180; p. 109.
Williams, Edith M., administratrix. (See Williams, John T.)
Williams, Edward G., and E. H. Brown, Washington, D. C. Form for tunnel-work. No. 1,017,029; Feb. 13; Sp. p. 1771; Gaz. vol. 175; p. 309.
Williams, Edward H. (See Andrews and Williams.)
Williams, Edward L., Santa Cruz, Cal. Building construction. No. 1,046,701; Dec. 10; Gaz. vol. 185; p. 355.
Williams, Edward P., Gloucester, Mass. Internal-combustion motor. No. 1,037,094; Aug. 27; Gaz. vol. 181; p. 1014.
Williams, Edwin A., Riverside, Cal. Fruit-picker's bag. No. 1,017,721; Feb. 20; Sp. p. 3245; Gaz. vol. 175; p. 582.
Williams, Edwin F. (See Skinner and Williams.)
Williams, Edwin F., Erie, Pa. Piston-valve. No. 1,016,053; Jan. 30; Sp. p. 6507; Gaz. vol. 174; p. 1132.
Williams, Edwin J., Mount Vernon, N. Y. Indicating and swivel support for cameras. No. 1,028,167; June 4; Sp. p. 254; Gaz. vol. 179; p. 31.
Williams, Elliott, Kansas City, Mo. Starting device for gas-engines. No. 1,039,237; Sept. 24; Gaz. vol. 182; p. 784.
Williams, Elliott, Kansas City, Mo. Spring winding and controlling mechanism. No. 1,042,064; Oct. 22; Gaz. vol. 183; p. 909.
Williams, Emrys T., Akron, Ohio. Apparatus for manufacturing rubber tires, &c. No. 1,041,544; Oct. 15; Gaz. vol. 183; p. 697.
Williams, Enoch J., Langdon, Kans. Combined hay loader and rake. No. 1,021,648; Mar. 26; Sp. p. 5605; Gaz. vol. 176; p. 1008.
Williams, Ensley E. (See Sherland, Mark E., assignor.)
Williams, Eugene. (See Weelands and Williams.)
Williams, Eugene B., Stockton, Cal. Carbureter. No. 1,048,620; Dec. 31; Gaz. vol. 185; p. 1111.
Williams, Forest, Hobart, Okla. Oil-burner. No. 1,026,015; May 14; Sp. p. 2010; Gaz. vol. 178; p. 347.
Williams Foundry and Machine Company, The. (See Williams, John K., assignor.)
Williams, Frank E., Alhambra, Cal. Safety-pin and button. No. 1,046,243; Dec. 3; Gaz. vol. 185; p. 155.
Williams, Frank O. (See Witsil, Charles W., assignor.)
Williams, Frank P., Burlington, Kans. Lead-ring. No. 1,017,030; Feb. 13; Sp. p. 1775; Gaz. vol. 175; p. 309.
Williams, Frank R., Syracuse, N. Y. Planimeter. No. 1,049,186; Dec. 31; Gaz. vol. 185; p. 1306.
Williams, Franklin S., Bridgewater, Mass. Releasing device for shoe racks or conveyers. No. 1,018,286; Feb. 20; Sp. p. 4545; Gaz. vol. 175; p. 780.
Williams, Frederick C., San Francisco, Cal. Pencil marking and vending machine. No. 1,023,540; Apr. 16; Sp. p. 3792; Gaz. vol. 177; p. 670.
Williams, Frederick W. R., assignor of one-half to C. H. Mower, London, England. Tapping device for sieves or screens. No. 1,022,911; Apr. 9; Sp. p. 2476; Gaz. vol. 177; p. 421.
Williams, George E., A. J. Campbell, and D. H. Brand, Trenton, N. J. Toilet article. No. 1,034,177; July 30; Gaz. vol. 180; p. 1287.
Williams, George F., St. Louis, Mo. Switch-operating device. No. 1,025,355; May 7; Sp. p. 552; Gaz. vol. 178; p. 86.
Williams, George L., Americus, Ga. Measuring-machine. No. 1,028,313; June 4; Sp. p. 542; Gaz. vol. 179; p. 79.
Williams, Gordon, assignor to The English & Mersick Co., New Haven, Conn. Electric lamp and supporting-bracket therefor. No. 1,030,955; July 2; Gaz. vol. 180; p. 36.
Williams, Gordon, assignor to The English & Mersick Co., New Haven, Conn. Electric lamp and supporting bracket therefor. No. 1,040,080; Oct. 1; Gaz. vol. 183; p. 137.
Williams, Gurdon H., assignor to The G. H. Williams Company, Cleveland, Ohio. Drag-bucket. No. 1,027,301; May 21; Sp. p. 4895; Gaz. vol. 178; p. 823.
Williams, Guy V. (See Farkas, Karl, assignor.)
Williams, Harold S., Caldwell, Idaho. Metal flume or conduit. No. 1,031,407; July 2; Gaz. vol. 180; p. 196.
Williams, Harry B., Saranac Lake, N. Y. Paint-brush. No. 1,037,698; Sept. 3; Gaz. vol. 182; p. 176.
Williams, Harry S., Ithaca, N. Y. Advertising-cabinet. No. 1,033,058; July 16; Gaz. vol. 180; p. 843.
Williams, Harry W., Portland, Oreg. Display attachment for boxes. No. 1,044,839; Nov. 19; Gaz. vol. 184; p. 686.
Williams, Harvey D., Washington, D. C., assignor to The Waterbury Tool Company, Waterbury, Conn. Apparatus for transmitting power and regulating speed. No. 1,044,838; Nov. 19; Gaz. vol. 184; p. 686.
Williams, Harvey D., Newport, R. I., assignor to The Waterbury Tool Company, Waterbury, Conn. Machinery for the hydraulic transmission of power. No. 1,047,600; Dec. 17; Gaz. vol. 185; p. 699.
Williams, Haywood, Altheimer, Ark. Plow. No. 1,018,465; Feb. 27; Sp. p. 4934; Gaz. vol. 175; p. 872.
Williams, Henry S., assignor of one-half to Williams, Brown and Earle, Inc., Philadelphia, Pa., and one-half to Joseph Bancroft & Sons Company, Wilmington, Del. Screen for optical projection purposes and making same. No. 1,043,988; Nov. 12; Gaz. vol. 184; p. 363.
Williams, Hiram C., Utica, assignor of one-third to F. B. Harrington, Albany, and one-third to S. R. Payne, Syracuse, N. Y. Electrical bonding device. No. 1,041,394; Oct. 15; Gaz. vol. 183; p. 647.
Williams, Hiram C., Utica, assignor of one-third to F. B. Harrington, Albany, and one-third to S. R. Payne, Syracuse, N. Y. Electrical bonding device. No. 1,042,304; Oct. 22; Gaz. vol. 183; p. 988.
Williams, Hiram C., Utica, and S. R. Payne, Syracuse, assignors of one-third to F. B. Harrington, Albany, N. Y. Audible signal. No. 1,041,393; Oct. 15; Gaz. vol. 183; p. 647.
Williams, Homer D., and W. Ahlen, Duquesne, Pa. Gas-washing plant. No. 1,037,095; Aug. 27; Gaz. vol. 181; p. 1015.
Williams, Howard S., Cleveland, Ohio. Producing conical clutch-facings. No. 1,019,396; Mar. 5; Sp. 917; Gaz. vol. 176; p. 134.
Williams, Jake. (See Hammond, James, assignor.)
Williams, James, Olney, England. Pump. No. 1,025,554; May 7; Sp. p. 1007; Gaz. vol. 178; p. 155.
Williams, James E., Clay, Miss. Cotton-chopper. No. 1,015,369; Jan. 23; Sp. p. 5033; Gaz. vol. 174; p. 869.
Williams, James E., Bessemer, Ala. Valve mechanism. No. 1,020,003; Mar. 12; Sp. p. 2128; Gaz. vol. 176; p. 366.
Williams, James P., assignor to The De Long Hook and Eye Company, Philadelphia, Pa. Clamp. No. 1,031,306; July 2; Gaz. vol. 180; p. 162.

Alphabetical list of patentees—Continued.

Williams, James P., assignor to The De Long Hook and Eye Company, Philadelphia, Pa. Snap-fastener. No. 1,044,110; Nov. 12; Gaz. vol. 184; p. 404.
Williams, James P., assignor to The De Long Hook and Eye Company, Philadelphia, Pa. Snap-fastener. No. 1,044,111; Nov. 12; Gaz. vol. 184; p. 404.
Williams, James P., assignor to The De Long Hook and Eye Company, Philadelphia, Pa. Means for attaching hooks and eyes. No. 1,046,046; Dec. 3; Gaz. vol. 185; p. 85.
Williams, James P., assignor to The De Long Hook and Eye Company, Philadelphia, Pa. Making socket members of snap-fasteners. No. 1,048,776; Dec. 31; Gaz. vol. 185; p. 1167.
Williams, Jenkin, Pittsburgh, assignor of one-fourth to J. H. Roney, Ingram, Pa. Guide-rest bar for rolling-mills. No. 1,015,751; Jan. 23; Sp. p. 5860; Gaz. vol. 174; p. 999.
Williams, John C., Orange, Cal. Cultivator. No. 1,046,419; Dec. 3; Gaz. vol. 185; p. 217.
Williams, John F., Wassaic, N. Y. Acetylene-gas generator. No. 1,047,902; Dec. 17; Gaz. vol. 185; p. 803.
Williams, John G. (See Stimson, Henry W., assignor.)
Williams, John G. (See Tool, Linegar, and Williams.)
Williams, John H. (See Wilhelm, Dee W., assignor.)
Williams, John K. (See Trump, Elno H., assignor.)
Williams, John K., assignor of one-half to The Williams Foundry and Machine Company, Akron, Ohio. Quick-opening door for vulcanizers. No. 1,014,192; Jan. 9; Sp. p. 2441; Gaz. vol. 174; p. 410.
Williams, John N., Derby, Conn. Flying-machine. No. 1,023,233; Apr. 16; Sp. p. 3188; Gaz. vol. 177; p. 571.
Williams, John P., and H. Huhn, New York, N. Y., assignors to Electric Bank Protection Company. Electrically-protected grille-work or grating. No. 1,027,679; May 28; Sp. p. 5666; Gaz. vol. 178; p. 987.
Williams, John P., and H. Huhn, New York, N. Y., assignors to Electric Bank Protection Company. Electro-thermostatic lining for vaults, safes, &c. No. 1,041,395; Oct. 15; Gaz. vol. 183; p. 648.
Williams, John T., deceased; E. M. Williams, Brooklyn, administratrix, assignor to A. C. Williams, Mount Vernon, N. Y. Candy-wrapping machine. No. 1,046,526; Dec. 10; Gaz. vol. 185; p. 293.
Williams, John W., Monmouth, Ill. Stovepipe-ventilator. No. 1,020,590; Mar. 19; Sp. p. 3368; Gaz. vol. 176; p. 599.
Williams, Joseph A., Cleveland, Ohio. Aeroplane. No. 1,027,954; May 28; Sp. p. 6284; Gaz. vol. 178; p. 1080.
Williams, Lacey Y., Toledo, Ohio. Dust-guard for car journal-boxes. No. 1,017,277; Feb. 13; Sp. p. 2327; Gaz. vol. 175; p. 396.
Williams, Lawson M., Henry, assignor of one-half to G. M. Chapman, Bostic, N. C. Grader and ditcher. No. 1,015,465; Jan. 23; Sp. p. 5260; Gaz. vol. 174; p. 901.
Williams, Lester J., Lebanon, and F. C. Myrick, Manchester, assignors to Kendrick & Davis Company, Lebanon, N. H. Staking-tool. No. 1,045,487; Nov. 26; Gaz. vol. 184; p. 941.
Williams, Lewie A., Houston, Tex. Collapsible ventilated crate. No. 1,029,161; June 11; Sp. p. 2368; Gaz. vol. 179; p. 403.
Williams, Llewellyn W. (See Johnson and Williams.)
Williams, Louis, Denver, Colo. Locking device for satchels, &c. No. 1,034,050; July 30; Gaz. vol. 180; p. 1244.
Williams, Louis, Denver, Colo. Coin-controlled locking-hook. No. 1,039,872; Oct. 1; Gaz. vol. 183; p. 68.
Williams, Louis G., Hopkinsville, Ky. Machine for mining coal. No. 1,043,183; Nov. 5; Gaz. vol. 184; p. 49.
Williams, Louis N. D., Ogontz, Pa., assignor to Scott & Williams, Incorporated, Camden, N. J. Knitting-machine needle. No. 1,015,108; Jan. 16; Sp. p. 4478; Gaz. vol. 174; p. 754.
Williams, Louis N. D., Ogontz, Pa., assignor to Scott & Williams, Incorporated, Camden, N. J. Knitting-machine needle. No. 1,015,109; Jan. 16; Sp. p. 4480; Gaz. vol. 174; p. 750.
Williams, Louis N. D., Ogontz, Pa., assignor to Scott & Williams, Incorporated, Camden, N. J. Machine for bordering fabrics. No. 1,025,176; May 7; Sp. p. 148; Gaz. vol. 178; p. 25.
Williams, Lynn A., Evanston, Ill. Infant's bath-tub. No. 1,042,515; Oct. 29; Gaz. vol. 183; p. 1090.
Williams, Margaret E. B., Westernport, Md. Threading means for sewing-machines. No. 1,026,483; May 14; Sp. p. 3075; Gaz. vol. 178; p. 507.
Williams, Martin L. (See Wilson, George L., assignor.)
Williams, Martin L., South Bend, Ind. Steering mechanism. No. 1,026,728; May 21; Sp. p. 3606; Gaz. vol. 178; p. 626.
Williams, Martin L., South Bend, Ind. Internal-combustion engine. No. 1,027,680; May 28; Sp. p. 5669; Gaz. vol. 178; p. 988.
Williams, Milton F., assignor to Williams Patent Crusher and Pulverizer Company, St. Louis, Mo. Dust-deflector for pulverizer-machines. No. 1,014,193; Jan. 9; Sp. p. 2443; Gaz. vol. 174; p. 410.
Williams, Milton F., assignor to Williams Patent Crusher & Pulverizer Company, St. Louis, Mo. Slicing-hammer. No. 1,016,979; Feb. 13; Sp. p. 1670; Gaz. vol. 175; p. 292.
Williams, Milton F., assignor to Williams Patent Crusher and Pulverizer Company, St. Louis, Mo. Crusher and pulverizer. No. 1,020,380; Mar. 12; Sp. p. 2893; Gaz. vol. 176; p. 490.
Williams, Milton F., assignor to Williams Patent Crusher & Pulverizer Company, St. Louis, Mo. Slicing-hammer. No. 1,020,381; Mar. 12; Sp. p. 2895; Gaz. vol. 176; p. 490.
Williams, Milton F., assignor to Williams Patent Crusher & Pulverizer Company, St. Louis, Mo. Splitting-hammer. No. 1,031,896; July 9; Gaz. vol. 180; p. 406.
Williams, Milton F., assignor to Williams Patent Crusher and Pulverizer Company, St. Louis, Mo. Shredding-hammer. No. 1,033,506; July 23; Gaz. vol. 180; p. 1032.
Williams, Milton F., assignor to Williams Patent Crusher & Pulverizer Company, St. Louis, Mo. Ore-crusher. No. 1,034,552; Aug. 6; Gaz. vol. 181; p. 51.
Williams, Milton F., St. Louis, Mo., assignor to Williams Patent Crusher & Pulverizer Company. Feed-mixing machine. No. 1,035,288; Aug. 13; Gaz. vol. 181; p. 328.
Williams, Milton F., St. Louis, Mo., assignor to Williams Patent Crusher & Pulverizer Company. Adjusting mechanism for crushers or pulverizers. No. 1,039,623; Sept. 24; Gaz. vol. 182; p. 919.
Williams, Milton F., assignor to Williams Patent Crusher & Pulverizer Company, St. Louis, Mo. Reducing-machine casing. No. 1,039,624; Sept. 24; Gaz. vol. 182; p. 919.
Williams, Milton F., assignor to Williams Patent Crusher & Pulverizer Company, St. Louis, Mo. Ore-crusher. No. 1,047,356; Dec. 17; Gaz. vol. 185; p. 614.
Williams, Milton F., assignor to Williams Patent Crusher & Pulverizer Company, St. Louis, Mo. Feeding mechanism for shredders or pulverizers. No. 1,048,621; Dec. 31; Gaz. vol. 185; p. 1111.
Williams, Milton F., and E. H. Frickey, assignors to Williams Patent Crusher & Pulverizer Company, St. Louis, Mo. Pulverizer. No. 1,022,454; Apr. 9; Sp. p. 1490; Gaz. vol. 177; p. 267.
Williams, Milton F., and E. H. Frickey, assignors to Williams Patent Crusher and Pulverizer Company, St. Louis, Mo. Slot-guard. No. 1,025,177; May 7; Sp. p. 151; Gaz. vol. 178; p. 25.
Williams, Milton J., Chicago, Ill. Crusher or pulverizer. No. 1,030,956; July 2; Gaz. vol. 180; p. 36.
Williams, Morgan A., Bridgeville, Del. Shock-binder. No. 1,032,096; July 9; Gaz. vol. 180; p. 473.
Williams, Mortimer B., Independence, Mo. Loose-leaf device. No. 1,031,220; July 2; Gaz. vol. 180; p. 131.
Williams, Ora W., assignor of one-half to W. H. Gardner, Minneapolis, Minn. Wheel. No. 1,025,555; May 7; Sp. p. 1008; Gaz. vol. 178; p. 156.
Williams, Osbert E., Scranton, Pa. Regulator for dampers and the like. No. 1,046,922; Dec. 10; Gaz. vol. 185; p. 430.
Williams Patent Crusher & Pulverizer Company. (See Casebolt, Charles H., assignor.)
Williams Patent Crusher and Pulverizer Company. (See Cornwall, Frederick R., assignor.)
Williams Patent Crusher & Pulverizer Company. (See Frickey, Edward H., assignor.)
Williams Patent Crusher and Pulverizer Company. (See Williams, Arthur F., assignor.)
Williams Patent Crusher & Pulverizer Company. (See Williams, Milton F., assignor.)
Williams Patent Crusher and Pulverizer Company. (See Williams and Frickey, assignors.)
Williams, Perry H., assignor of one-half to G. Gronauer, Memphis, Tenn. Stave-jointing machine. No. 1,028,648; June 4; Sp. p. 1257; Gaz. vol. 179; p. 194.
Williams, Peter K. (See La Borde and Williams.)
Williams, Peter K., Columbus, Ohio. Buttonhole-marking machine. No. 1,014,275; Jan. 9; Sp p. 2630; Gaz. vol. 174; p. 439.
Williams, Peter K., and J. F. La Borde, Columbus, Ohio. Buttonhole-marking machine. No. 1,029,735; June 18; Sp. p. 3629; Gaz. vol. 179; p. 639.
Williams, Philip K., assignor to J. B. Williams Company, Glastonbury, Conn. Shaving-stick holder. No. 1,018,949; Feb. 27; Sp. p. 6013; Gaz. vol. 175; p. 1037.
Williams, Phineas C. (See Richardson, George W., assignor.)
Williams, Ray A., Denver, Colo. Stock-feeder. No. 1,036,762; Aug. 27; Gaz. vol. 181; p. 903.
Williams, Raymond H. (See Straus, Joseph H., Jr., assignor.)
Williams, Richard S., Toronto, Ontario, Canada. Violin chin-rest. No. 1,023,234; Apr. 16; Sp. p. 3192; Gaz. vol. 177; p. 571.
Williams, Robert, Irondequoit, N. Y. Draftsman's appliance. No. 1,029,248; June 11; Sp. p. 2556; Gaz. vol. 179; p. 433.
Williams, Rodger D. (See Rowley and Williams.)
Williams, Roger F., assignor of one-half to M. L. Failing, Buffalo, N. Y. Detector for wireless telegraphy and telephony. No. 1,048,117; Dec. 24; Gaz. vol. 185; p. 903.
Williams, Samuel, Elk City, Okla. Cotton-cleaner. No. 1,029,162; June 11; Sp. p. 2370; Gaz. vol. 179; p. 404.

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Williams, Silas S., Minneapolis, Minn. Rotary engine. No. 1,047,357; Dec. 17; Gaz. vol. 185; p. 614.
Williams, Sylvester M., San Francisco, Cal. Aeroplane. No. 1,014,194; Jan. 9; Sp. p. 2444; Gaz. vol. 174; p. 410.
Williams, Thomas, and A. Lewis, San Francisco, Cal. Automatic sprinkler and alarm. No. 1,030,443; June 25; Sp. p. 5195; Gaz. vol. 179; p. 924.
Williams, Thomas B. (See Smith and Williams.)
Williams, Thomas B., assignor to Leavitt Machine Company, Orange, Mass. Machine for facing valve-seats. No. 1,036,394; Aug. 20; Gaz. vol. 181; p. 748.
Williams, Thomas J., Hiteman, Iowa. Stropping device. No. 1,027,955; May 28; Sp. p. 6286; Gaz. vol. 178; p. 1080.
Williams, Thomas J., Sheffield, Iowa. Gate-fastener. No. 1,035,505; Aug. 13; Gaz. vol. 181; p. 404.
Williams, Wade W., Providence, R. I. Cuff-pin. No. 1,027,302; May 21; Sp. p. 4897; Gaz. vol. 178; p. 824.
Williams, Wade W., Providence, R. I. Cuff-pin. No. 1,041,932; Oct. 22; Gaz. vol. 183; p. 866.
Williams, White & Company. (See Ainsworth, Harry, assignor.)
Williams, White & Company. (See Cornbrooks, William A., assignor.)
Williams, William A., Newport, Ark. Combined soil-pulverizer and cultivator. No. 1,023,774; Apr. 16; Sp. p. 4227; Gaz. vol. 177; p. 743.
Williams, William E., Chicago, Ill. Machine for converting food materials into shreds or fibers. No. 1,024,168; Apr. 23; Sp. p. 5166; Gaz. vol. 177; p. 907.
Williams, William G., Vinita, Okla. Attachment for bags, grips, valises, and the like. No. 1,028,168; June 4; Sp. p. 256; Gaz. vol. 179; p. 31.
Williams, William H., Statesboro, Ga. Engine-starter. No. 1,024,712; Apr. 30; Sp. p. 6411; Gaz. vol. 177; p. 1129.
Williams, William H., Statesboro, Ga. Lifting device. No. 1,026,232; May 14; Sp. p. 2525; Gaz. vol. 178; p. 423.
Williams, William H., Statesboro, Ga. Boat. No. 1,026,336; May 14; Sp. p. 2754; Gaz. vol. 178; p. 460.
Williams, William H., Statesboro, Ga. Sack. No. 1,031,033; July 2; Gaz. vol. 180; p. 64.
Williams, William H., Statesboro, Ga. Revolving track and car therefor. No. 1,035,506; Aug. 13; Gaz. vol. 181; p. 404.
Williams, William H., Statesboro, Ga. Plow. No. 1,036,395; Aug. 20; Gaz. vol. 181; p. 748.
Williams, William H., Statesboro, Ga. Three-wheeled motor-driven vehicle. No. 1,036,396; Aug. 20; Gaz. vol. 181; p. 748.
Williams, William H., East Liverpool, Ohio. Manufacture of gas. No. 1,027,681; May 28; Sp. p. 5673; Gaz. vol. 178; p. 989.
Williams, William L., and J. L. Olmstead, West Brownsville; said Williams assignor to E. Carlson, Monongahela, Pa. Mailing device. No. 1,025,039; Apr. 30; Sp. p. 7070; Gaz. vol. 177; p. 1243.
Williams, William S., assignor to J. A. Fay & Egan Company, Cincinnati, Ohio. Saw-table gage. No. 1,017,632; Feb. 13; Sp. p. 3056; Gaz. vol. 175; p. 515.
Williams, William S., Jr., Jersey City, N. J. Device to prevent slipping. No. 1,042,516; Oct. 29; Gaz. vol. 183; p. 1090.
Williams, Willis D., Kirkland, Ariz. Rail-joint. No. 1,030,365; June 25; Sp. p. 5026; Gaz. vol. 179; p. 897.
Williams, Wynant J., Albany, and H. H. Rasmussen, Troy, N. Y. Phonophotoscope. No. 1,037,530; Sept. 3; Gaz. vol. 182; p. 120.
Williamson, Alva, Atlantic, Iowa. Sounding-horn. No. 1,017,938; Feb. 20; Sp. p. 3797; Gaz. vol. 175; p. 659.
Williamson, Arthur M. (See Sprague and Williamson.)
Williamson, Arthur M., assignor to International Acheson Graphite Company, Niagara Falls, N. Y. Sectional electrode. No. 1,040,830; Oct. 8; Gaz. vol. 183; p. 425.
Williamson, Bailey F., Gainesville, Fla. Converting wood into paper-making stock and by-products. No. 1,025,356; May 7; Sp. p. 554; Gaz. vol. 178; p. 87.
Williamson, Charles, Norfolk, Va. Submarine pleasure apparatus. No. 1,016,808; Feb. 6; Sp. p. 1282; Gaz. vol. 175; p. 197.
Williamson, Charles, Norfolk, Va. Submarine mining apparatus. No. 1,017,486; Feb. 13; Sp. p. 2779; Gaz. vol. 175; p. 469.
Williamson, Charles, Norfolk, Va. Submarine operating apparatus. No. 1,023,541; Apr. 16; Sp. p. 3796; Gaz. vol. 177; p. 670.
Williamson, Edwin, Talladega, Ala. Adding and listing machine. No. 1,017,068; Feb. 13; Sp. p. 1859; Gaz. vol. 175; p. 323.
Williamson, Frank E., Glasco, Kans. Stock-watering device. No. 1,016,809; Feb. 6; Sp. p. 1286; Gaz. vol. 175; p. 197.
Williamson, Glenn S. (See Egnor, Theodore L., assignor.)
Williamson, Gust, Bangor, Me. Propelling mechanism. No. 1,014,195; Jan. 9; Sp. p. 2447; Gaz. vol. 174; p. 411.
Williamson, Herbert C., Worcester, Mass. Grinding machinery. No. 1,046,527; Dec. 10; Gaz. vol. 185; p. 293.
Williamson, John, assignor of one-third to H. E. Randall and one-third to A. P. Stewart, Brooklyn, N. Y. Pneumatic suspension device for vehicles. No. 1,016,810; Feb. 6; Sp. p. 1287; Gaz. vol. 175; p. 197.
Williamson, John B., Louisville, Ky. Cartridge-belt. No. 1,014,196; Jan. 9; Sp. p. 2450; Gaz. vol. 174; p. 411.
Williamson, John D., Jr., Philadelphia, Pa., assignor to American Engineering Company. Gearing. No. 1,033,752; July 23; Gaz. vol. 180; p. 1111.
Williamson, Leroy A., Boston, Mass. Portable electric-light fixture. No. 1,027,633; May 28; Sp. p. 5564; Gaz. vol. 178; p. 972.
Williamson, Leroy A., Boston, Mass. Portable electric-light fixture. No. 1,027,634; May 28; Sp. p. 5566; Gaz. vol. 178; p. 973.
Williamson, Leroy A., Boston, Mass. Portable electric-light fixture. No. 1,027,635; May 28; Sp. p. 5567; Gaz. vol. 178; p. 973.
Williamson, Max W., Kiowa, Okla. Cotton-gin cleaner. No. 1,045,923; Dec. 3; Gaz. vol. 185; p. 44.
Williamson, Newton H., Greenfield, assignor of one-fourth to J. J. Galey and one-fourth to J. C. Caudle, Atwood, Tenn. Pitman-cuff. No. 1,034,553; Aug. 6; Gaz. vol. 181; p. 51.
Williamson, Newton H., assignor of one-fourth to J. J. Galey and one-fourth J. C. Caudle, Greenfield, Tenn. Hame-fastener. No. 1,047,358; Dec. 17; Gaz. vol. 185; p. 614.
Williamson, Reason C., Carlisle, Iowa. Building-block mold. No. 1,031,897; July 9; Gaz. vol. 180; p. 407.
Williamson, Robert B. (See Powell and Williamson.)
Williamson, Robert B., Milwaukee, Wis., assignor to Allis-Chalmers Company. Unloading device for motors. No. 1,017,939; Feb. 20; Sp. p. 3799; Gaz. vol. 175; p. 660.
Williamson, Robert B., Milwaukee, Wis., assignor to Allis-Chalmers Company. Dynamo-electric machine. No. 1,030,041; June 18; Sp. p. 4301; Gaz. vol. 179; p. 744.
Williamson, Robert B., Milwaukee, Wis., assignor to Allis-Chalmers Company. Dynamo-electric machine. No. 1,030,556; June 25; Sp. p. 5493; Gaz. vol. 179; p. 963.
Williamson, Robert B., Milwaukee, Wis., assignor to Allis-Chalmers Company. Dynamo-electric machine. No. 1,030,557; June 25; Sp. p. 5496; Gaz. vol. 179; p. 964.
Williamson, Samuel F., Philadelphia, Pa. Wainscoting. No. 1,046,528; Dec. 10; Gaz. vol. 185; p. 294.
Williamson, Samuel S., Philadelphia, Pa. Secondary mouthpiece for telephone-transmitters. No. 1,041,545; Oct. 15; Gaz. vol. 183; p. 697.
Williamson, Samuel S., and B. Wilson, Philadelphia, Pa.; said Williamson assignor to said Wilson. Traveling contact for elevators. No. 1,017,614; Feb. 13; Sp. p. 3011; Gaz. vol. 175; p. 509.
Williamson, William D., *et al.* (See Archambeau, Charles L., assignor.)
Williman, Anton, Houston Heights, Tex. Flushing device. No. 1,046,923; Dec. 10; Gaz. vol. 185; p. 431.
Willis, Banister L., Milan, Mo. Post-driver. No. 1,021,121; Mar. 26; Sp. p. 4479; Gaz. vol. 176; p. 828.
Willis, Charles G. (See Alexander, Jesse, assignor.)
Willis, Charles H., Tifton, Ga. Locomotive ash-pan. No. 1,016,464; Feb. 6; Sp. p. 519; Gaz. vol. 175; p. 80.
Willis, Charles W., Glazier, Tex. Liquid-fuel burner. No. 1,045,233; Nov. 26; Gaz. vol. 184; p. 851.
Willis Electric Meter Company. (See Willis, George M., assignor.)
Willis, Frank D., Burlington, Vt. Flying-machine. No. 1,039,625; Sept. 24; Gaz. vol. 182; p. 919.
Willis, Frank E., *et al.* (See Beebee, Frank, assignor.)
Willis, Franklin W., Roanoke, Va. Level-rod. No. 1,014,547; Jan. 9; Sp. p. 3181; Gaz. vol. 174; p. 530.
Willis, George M., assignor to Willis Electric Meter Company, Chicago, Ill. Electricity-meter. No. 1,039,467; Sept. 24; Gaz. vol. 182; p. 863.
Willis, George W., Beckley, W. Va. Insulator. No. 1,022,993; Apr. 9; Sp. p. 2640; Gaz. vol. 177; p. 450.
Willis, George W., Auburn, N. Y., assignor to International Harvester Company. Disk harrow. No. 1,021,174; Mar. 26; Sp. p. 4608; Gaz. vol. 176; p. 845.
Willis, George W., Auburn, N. Y., assignor to International Harvester Company. Grain-binder. No. 1,026,841; May 21; Sp. p. 3856; Gaz. vol. 178; p. 666.
Willis, Glenn H., and B. F. Felix, assignors to Feather-weight Rubber Sponge Company, Chicago, Ill. Making artificial sponge. No. 1,045,234; Nov. 26; Gaz. vol. 184; p. 852.
Willis, James B., Ann Arbor, Mich. Toaster. No. 1,014,548; Jan. 9; Sp. p. 3183; Gaz. vol. 174; p. 530.
Willis, Leland, assignor to Bateman Manufacturing Company, Grenloch, N. J. Attachment for potato-diggers. No. 1,015,110; Jan. 16; Sp. p. 4482; Gaz. vol. 174; p. 755.
Willis, Leland, assignor to Bateman Manufacturing Company, Grenloch, N. J. Plant-spraying machine. No. 1,024,239; Apr. 23; Sp. p. 5333; Gaz. vol. 177; p. 934.
Willis, Lilla B., Louisville, Ky. Combination dish mop and scraper. No. 1,020,866; Mar. 19; Sp. p. 3971; Gaz. vol. 176; p. 692.
Willis, Lillian V., Baltimore, Md. Renovating steam-kettle. No. 1,044,112; Nov. 12; Gaz. vol. 184; p. 405.
Willis, Prior F., St. Louis, Mo. Acetylene-gas generator. No. 1,013,249; Jan. 2; Sp. p. 350; Gaz. vol. 174; p. 56.

Alphabetical list of patentees—Continued.

Willis, Prior F., St. Louis, Mo. Oxyacetylene-torch. No. 1,039,238; Sept. 24; Gaz. vol. 182; p. 784.
Willis, Prior F., St. Louis, Mo. Acetylene-gas generator. No. 1,039,239; Sept. 24; Gaz. vol. 182; p. 785.
Willis, Robert. (See Pederson and Willis.)
Willis, William B., assignor of one-half to V. E. Melberg, Palacios, Tex. Combination hoe and plow. No. 1,032,719; July 16; Gaz. vol. 180; p. 731.
Willits, Frederick E., assignor of one-fourth to W. M. Roop, Kansas City, Mo. Wire-fabric machine. No. 1,027,454; May 28; Sp. p. 5207; Gaz. vol. 178; p. 913.
Willma, Theodor, Milwaukee, Wis. Separator. No. 1,035,930; Aug. 20; Gaz. vol. 181; p. 585.
Willma, Theodor, assignor of one-eighth to M. Walski and one-eighth to S. Kielar, Milwaukee, Wis. Rock and ore crusher. No. 1,044,325; Nov. 12; Gaz. vol. 184; p. 478.
Willman, Levi, Stillwater, Okla. Cotton-picker. No. 1,027,455; May 28; Sp. p. 5209; Gaz. vol. 178; p. 914.
Willmann, Joseph, Derby, Conn. Homogenizer. No. 1,037,815; Sept. 3; Gaz. vol. 182; p. 212.
Willmann, Joseph, assignor to Dairy Machinery and Construction Company, Inc., Derby, Conn. Liquid-cooling apparatus. No. 1,015,660; Jan. 23; Sp. p. 5670; Gaz. vol. 174; p. 969.
Willmann, Joseph, assignor to Dairy Machinery and Construction Company, Incorporated, Derby, Conn. Manufacturing artificially-soured milk. No. 1,025,772; May 7; Sp. p. 1457; Gaz. vol. 178; p. 229.
Willmott, Francis J., Highfield, Evesham, England. Case for spectacles and eyeglasses. No. 1,041,214; Oct. 15; Gaz. vol. 183; p. 587.
Willmott, Francis J., Evesham, England. Case for spectacles, eyeglasses, and other articles. No. 1,041,933; Oct. 22; Gaz. vol. 183; p. 867.
Willners, John, Chicago Heights, assignor of fifty-one one-hundredths to H. Argo, Chicago, Ill. Crushing-machine. No. 1,025,895; May 7; Sp. p. 1765; Gaz. vol. 178; p. 271.
Willoughby, Alford P, Olney. Tex. Rail-clamping plate-fastener. No. 1,041,546; Oct. 15; Gaz. vol. 183; p. 697.
Willoughby, Hugh L., Philadelphia, Pa. Aeroplane-engine-controlling mechanism. No. 1,024,303; Apr. 23; Sp. p. 5446; Gaz. vol. 177; p. 954.
Willoughby, Victor, Jeffersonville, Ind., assignor to American Car and Foundry Company, St. Louis, Mo. Collapsible shelving. No. 1,021,122; Mar. 26; Sp. p. 4482; Gaz. vol. 176; p. 828.
Willour, Le Roy, assignor to The Ashland Manufacturing Company, Ashland, Ohio. Quick-action jack. No. 1,042,861; Oct. 29; Gaz. vol. 183; p. 1211.
Willour, Le Roy, assignor to The Ashland Manufacturing Company, Ashland, Ohio. Jack. No. 1,044,718; Nov. 19; Gaz. vol. 184; p. 644.
Wills, Arthur J., Brookfield, assignor to The B & R Rubber Company, North Brookfield, Mass. Automatic jarring lathe. No. 1,036,763; Aug. 27; Gaz. vol. 181; p. 904.
Wills, Donald R., assignor of one-half to A. Klein, Cincinnati, Ohio. Carbureter. No. 1,038,050; Sept. 10; Gaz vol. 182; p. 326.
Wills, Emma E., Chetopa, Kans. Poultry-fountain. No. 1,045,653; Nov. 26; Gaz. vol. 184; p. 1000.
Wills, James G. (See Johnson, Olaf, assignor.)
Wills, Lewis H. (See Drake, Frederick A., assignor.)
Willson, Arthur V. (See Alpha, Orville W., assignor.)
Willson, Frederick, and N. Bourquin, assignors to T. A. Willson & Co., Incorporated, Reading, Pa. Eye-shield spectacles. No. 1,021,175; Mar. 26; Sp. p. 4609; Gaz. vol. 176; p. 846.
Willson, Henry, New York, N. Y. Lifting-key. No. 1,023,775; Apr. 16; Sp. p. 4230; Gaz. vol. 177; p. 743.
Willson, Russell A., assignor of one-half to H. L. Bleecker, Spokane, Wash. Electric meter. No. 1,031,500; July 2; Gaz. vol. 180; p. 227.
Willson, Samuel K., Dwight, Mass. Ejecting-penholder. No. 1,016,533; Feb. 6; Sp. p. 698; Gaz. vol. 175; p. 104.
Willson, Samuel T., Brooklyn, N. Y. Stove-top. No. 1,032,575; July 16; Gaz. vol. 180; p. 679.
Willson, Thomas L. (See Haff, Max M., assignor.)
Willson, Thomas L., and M. M. Haff, Ottawa, Ontario, Canada; said Haff assignor to said Willson. Drying monocalcic phosphate and the like. No. 1,040,081; Oct. 1; Gaz. vol. 183; p. 137.
Willy, John, Los Angeles, Cal. Mechanism for the obtainment of motive power from waves of the ocean, lakes, or other large bodies of water. No. 1,045,654; Nov. 26; Gaz. vol. 184; p. 1001.
Willys-Overland Company, The. (See Cameron, William H., assignor.)
Wilmot, Charles W., assignor to Western Mechanical Device Company, San Diego, Cal. Curling-iron. No. 1,031,604; July 2; Gaz. vol. 180; p. 262.
Wilmot, George W., Hazleton, and R. L. Hinkle, Upper Lehigh, Pa. Apparatus for separating refuse from coal. No. 1,030,042; June 18; Sp. p. 4303; Gaz. vol. 179; p. 744.
Wilmot-Gilbert, William J., assignor to Morden Frog & Crossing Works, Chicago Heights, Ill. Adjustment for switch-stands. No. 1,043,184; Nov. 5; Gaz. vol. 184; p. 50.
Wilmot, Harry C., Pekin, Ill. Flower-rack. No. 1,028,169; June 4; Sp. p. 257; Gaz. vol. 179; p. 31.
Wilmot, John F., Detroit, Mich. Wheel. No. 1,037,699; Sept. 3; Gaz. vol. 182; p. 176.
Wilms, Hermann, East Pittsburgh, Pa. Street-indicator for cars. No. 1,015,111; Jan. 16; Sp. p. 4484; Gaz. vol. 174; p. 755.
Wilsing, Heinrich, Bernburg, Germany. Manufacture of bleaching liquids. No. 1,023,287; Apr. 16; Sp. p. 3305; Gaz. vol. 177; p. 590.
Wilson, A. I. V., *et al.* (See Smith, Henry A., assignor.)
Wilson, Albert F., Montgomery, Ala. Reinforced-concrete cross-tie. No. 1,027,578; May 28; Sp. p. 5469; Gaz. vol. 178; p. 956.
Wilson, Alexander, Clayton, N. Y. Scraper attachment for torches. No. 1,044,326; Nov. 12; Gaz. vol. 184; p. 478.
Wilson, Alexander G., Chicago, Ill. Ventilator. No. 1,028,518; June 4; Sp. p. 999; Gaz. vol. 179; p. 151.
Wilson, Andrew D., Riverside, Wash. Fire-escape. No. 1,014,685; Jan. 16; Sp. p. 3564; Gaz. vol. 174; p. 610.
Wilson, Andrew J., assignor of one-half to V. Stephan, Cleveland, Ohio. Toy. No. 1,013,350; Jan. 2; Sp. p. 580; Gaz. vol. 174; p. 92.
Wilson, Bainbridge. (See Williamson and Wilson.)
Wilson, Benjamin F., Hastings, Nebr. Automobile-elevator. No. 1,032,975; July 16; Gaz. vol. 180; p. 814.
Wilson, Burton "J," and W. B. Couson, Santa Cruz, Cal. Sanitary cuspidor and the like. No. 1,037,700; Sept. 3; Gaz. vol. 182; p. 176.
Wilson, Chance R., Donovan, Ill. Self-feeder for threshers. No. 1,048,622; Dec. 31; Gaz. vol. 185; p. 1111.
Wilson, Charles A. (See Purvis and Wilson.)
Wilson, Charles B., assignor to J. Sumerlin, Bartow, Fla. Detachable spindle. No. 1,028,090; May 28; Sp. p. 6601; Gaz. vol. 178; p. 1124.
Wilson, Charles C., Greenville, S. C. Hub. No. 1,048,252; Dec. 24; Gaz. vol. 185; p. 946.
Wilson, Charles W., Edgewood, Ill. Toy. No. 1,016,662; Feb. 6; Sp. p. 988; Gaz. vol. 175; p. 149.
Wilson, Dalton K., assignor to William Galloway Company, Waterloo. Iowa. Adjustable foldable harrow. No. 1,015,865; Jan. 30; Sp. p. 6099; Gaz. vol. 174; p. 1063.
Wilson, Dalton K., assignor to William Galloway Company, Waterloo, Iowa. Power-transmission device. No. 1,021,030; Mar. 26; Sp. p. 4298; Gaz. vol. 176; p. 798.
Wilson, David, Kansas City, Mo. Earth-auger. No. 1,035,289; Aug. 13; Gaz. vol. 181; p. 328.
Wilson, David H., *et al.*, trustees. (See Wilson, David H., assignor.)
Wilson, David H., Chicago, Ill. Recording and reproducing device for phonographs. No. 1,048,924; Dec. 31; Gaz. vol. 185; p. 1217.
Wilson, David H., Chicago, Ill., assignor, by mesne assignments, to Stilwell-Wilson Telephone Company, New York, N. Y. Telephone apparatus. No. 1,015,255; Jan. 16; Sp. p. 4761; Gaz. vol. 174; p. 802.
Wilson, David H., Chicago, Ill., assignor, by mesne assignments, to D. H. Wilson and R. Bines, trustees, New York, N. Y. Telephone-transmitter. No. 1,048,253; Dec. 24; Gaz. vol. 185; p. 946.
Wilson, David L., Cumberland, Md. Letter-carrier's umbrella-support. No. 1,045,235; Nov. 26; Gaz. vol. 184; p. 852.
Wilson Distilling Company, The. (See Lacroix, Joseph D., assignor.)
Wilson Distilling Company, The. (See Switzer, Maurice, assignor.)
Wilson, Edward, assignor to Adreon Manufacturing Company, St. Louis, Mo. Bell-ringer. No. 1,021,394; Mar. 26; Sp. p. 5094; Gaz. vol. 176; p. 922.
Wilson, Edward W., Trenton, N. J. Time-signal. No. 1,048,118; Dec. 24; Gaz. vol. 185; p. 903.
Wilson, Ervon J. (See Cook and Wilson.)
Wilson, Fergus F., New York, N. Y. Locking mechanism. No. 1,036,764; Aug. 27; Gaz. vol. 181; p. 904.
Wilson, Frank D. (See Belcher and Wilson.)
Wilson, Frank J., Albuquerque, N. Mex. Pickling compound. No. 1,039,873; Oct. 1; Gaz. vol. 183; p. 68.
Wilson, Fred. (See Shaw, Bower, and Wilson.)
Wilson, Frederic W. (See Wallace and Clarke, assignors.)
Wilson, Frederick A., Brooklyn, N. Y. Register and ventilator. No. 1,013,631; Jan. 2; Sp. p. 1174; Gaz. vol. 174; p. 187.
Wilson, Frederick W., Upper Marlboro, Md. Letter-carrier's portfolio. No. 1,037,388; Sept. 3; Gaz. vol. 182; p. 71.
Wilson, Garrett G. (See Wilkinson, Albert, assignor.)
Wilson, George A., Worcester, Mass. Hospital-bed. No. 1,048,254; Dec. 24; Gaz. vol. 185; p. 947.
Wilson, George L., New York, N. Y., assignor to M. L. Williams, South Bend, Ind. Wind-shield. No. 1,048,467; Dec. 24; Gaz. vol. 185; p. 1020.
Wilson, George R., Newport News, Va. Insect-proof chest. No. 1,015,984; Jan. 30; Sp. p. 6359; Gaz. vol. 174; p. 1107.
Wilson, George S., and E. F. Mathey, Muskogee, Okla., assignors of one-third to C. L. N. Haines, Aurora, Mo. Brake. No. 1,021,962; Apr. 2; Sp. p. 459; Gaz. vol. 177; p. 73.

Wilson, George W., Vineland, N. J. Mail-bag catcher and deliverer. No. 1,038,051; Sept. 10; Gaz. vol. 182; p. 327.
Wilson, Harry B., San Francisco, Cal. Insect-exit eyelet for screens. No. 1,049,022; Dec. 31; Gaz. vol. 185; p. 1252.
Wilson, Harry C., New York, N. Y. Work-holder. No. 1,017,615; Feb. 13; Sp. p. 3014; Gaz. vol. 175; p. 509.
Wilson, Harry C., New York, N. Y. Automatic razor-blade-sharpening machine. No. 1,028,170; June 4; Sp. p. 259; Gaz. vol. 179; p. 31.
Wilson, Harry C., New York, N. Y. Garment-support. No. 1,036,397; Aug. 20; Gaz. vol. 181; p. 749.
Wilson, Harry H., and H. H. Ross, Nasel, Wash. Apparatus for splicing ropes and cables. No. 1,035,388; Aug. 13; Gaz. vol. 181; p. 365.
Wilson, Harvey B., Dewitt, Ill. Harrow attachment for plows. No. 1,019,210; Mar. 5; Sp. p. 450; Gaz. vol. 176; p. 72.
Wilson, Hearley H., Altoona, Pa. Means for analyzing flue-gases. No. 1,023,188; Apr. 16; Sp. p. 3107; Gaz. vol. 177; p. 556.
Wilson, Henry B., Birmingham, Ala. Automatic starter for tank-filling apparatus. No. 1,013,713; Jan. 2; Sp. p. 1376; Gaz. vol. 174; p. 215.
Wilson, Herbert S., St. Louis, Mo. Forming paper receptacles. No. 1,015,370; Jan. 23; Sp. p. 5034; Gaz. vol. 174; p. 869.
Wilson, Howard O., Ainsworth, Nebr. Mail-delivery apparatus. No. 1,022,455; Apr. 9; Sp. p. 1493; Gaz. vol. 177; p. 267.
Wilson, James, assignor of one-half to C. Gillespie and D. Wilton, Glasgow, Scotland. Machine for dividing dough. No. 1,046,924; Dec. 10; Gaz. vol. 185; p. 431.
Wilson, James C., Washington, D. C. Voting-machine. No. 1,038,810; Sept. 17; Gaz. vol. 182; p. 622.
Wilson, James E., New York, N. Y. Pyrometer. No. 1,046,925; Dec. 10; Gaz. vol. 185; p. 431.
Wilson, James E., Detroit, Mich., assignor of one-half to E. Moore, Kenton, Ohio. Shoe-lace protector. No. 1,043,888; Nov. 12; Gaz. vol. 184; p. 327.
Wilson, James G., Coal Wood, assignor of one-third to C. P. Mahaffey, Premier, W. Va. Rotary engine. No. 1,042,994; Oct. 29; Gaz. vol. 183; p. 1255.
Wilson, James H., Ashland, Pa. Pressure-indicator. No. 1,049,187; Dec. 31; Gaz. vol. 185; p. 1306.
Wilson, James M., Atlanta, Kans. Shield attachment for sulky-rakes. No. 1,022,216; Apr. 2; Sp. p. 983; Gaz. vol. 177; p. 158.
Wilson, James M., New York, N. Y., assignor, by mesne assignments, to Splitdorf Electrical Co., Newark, N. J. Electric-current generator. No. 1,038,254; Sept. 10; Gaz. vol. 182; p. 394.
Wilson, James R. T., Chester, S. C. Automatic measuring and stopping device. No. 1,033,855; July 30; Gaz. vol. 180; p. 1173.
Wilson, James S., Chelsea, Mass. Conduit. No. 1,020,672; Mar. 19; Sp. p. 3549; Gaz. vol. 176; p. 624.
Wilson, James W. (See Bone, Wilson, and McCourt.)
Wilson, James W. (See Parsons, Wilson, and Ford.)
Wilson, James W., Rome, and W. H. Still, Utica, N. Y.; said Still assignor to said Wilson. Electric call system. No. 1,021,713; Mar. 26; Sp. p. 5722; Gaz. vol. 176; p. 1028.
Wilson, Jasper F., Burr Oak, Kans. Gambrel. No. 1,033,223; July 23; Gaz. vol. 180; p. 939.
Wilson, Jeremiah J., Dunsmuir, Cal. Graver. No. 1,042,738; Oct. 29; Gaz. vol. 183; p. 1168.
Wilson, John, Victoria, British Columbia, Canada. Incandescent lamp. No. 1,014,686; Jan. 16; Sp. p. 3565; Gaz. vol. 174; p. 610.
Wilson, John, Everett, Wash. Bed-rail lock. No. 1,046,358; Dec. 3; Gaz. vol. 185; p. 195.
Wilson, John A., Columbus, Kans. Bedstead. No. 1,026,016; May 14; Sp. p. 2012; Gaz. vol. 178; p. 347.
Wilson, John H. (See Beaton, Eason, and Wilson.)
Wilson, John M., Lottie, La. Drain-tile. No. 1,014,549; Jan. 9; Sp. p. 3184; Gaz. vol. 174; p. 531.
Wilson, John M., Montclair, assignor to Wilson Remover Company, Newark, N. J. Composition for removing paint or varnish. No. 1,036,946; Aug. 27; Gaz. vol. 181; p. 964.
Wilson, John M., assignor of one-half to J. Norman, Wichita, Kans. Baling-press. No. 1,038,255; Sept. 10; Gaz. vol. 182; p. 395.
Wilson, John M., Montclair, N. J., and H. A. Harris, Long Island City, N. Y. Paint, varnish, and finish remover. No. 1,046,926; Dec. 10; Gaz. vol. 185; p. 432.
Wilson, John R., Hartranft, assignor of one-half to R. L. Hoskins, Fork Ridge, Tenn. Combined molding and loading tool. No. 1,031,221; July 2; Gaz. vol. 180; p. 132.
Wilson, John T., Jersey Shore, Pa. Valve-gear. No. 1,034,178; July 30; Gaz. vol. 180; p. 1287.
Wilson, John W., Boston, Mass. Flying-machine. No. 1,028,981; June 11; Sp. p. 1984; Gaz. vol. 179; p. 342.
Wilson, John W., Boston, Mass. Flying-machine. No. 1,033,646; July 23; Gaz. vol. 180; p. 1078.
Wilson, Loran J., Jonesville, Va. Trap. No. 1,040,478; Oct. 8; Gaz. vol. 183; p. 300.
Wilson, Luther M., Houston, Tex. Tree-heater. No. 1,023,055; Apr. 9; Sp. p. 2774; Gaz. vol. 177; p. 472.
Wilson, Lynn J., Lockport, Ill. Whip-holder. No. 1,019,873; Mar. 12; Sp. p. 1846; Gaz. vol. 176; p. 324.
Wilson, Mabel A., St. Louis, Mo. Bath device. No. 1,021,346; Mar. 26; Sp. p. 4963; Gaz. vol. 176; p. 906.
Wilson, McDonald H., Lexington, Mo. Corn-planter. No. 1,045,087; Nov. 19; Gaz. vol. 184; p. 772.
Wilson, Paul, Maynard, Mass. Expansion-comb. No. 1,013,714; Jan. 2; Sp. p. 1379; Gaz. vol. 174; p. 216.
Wilson, Paul, Bowling Green, Ky. Wrench. No. 1,045,924; Dec. 3; Gaz. vol. 185; p. 44.
Wilson, R T, Greenville, Mich. Cider-mill. No. 1,022,286; Apr. 2; Sp. p. 1124; Gaz. vol. 177; p. 179.
Wilson, Ralph, Pilger, Nebr. Game-carrier. No. 1,048,925; Dec. 31; Gaz. vol. 185; p. 1217.
Wilson, Ralph B. (See Opalla, Arthur, assignor.)
Wilson, Ralph E., Dallas, Tex., assignor to Continental Gin Company, Birmingham, Ala. Tramper-press. No. 1,023,056; Apr. 9; Sp. p. 2775; Gaz. vol. 177; p. 472.
Wilson, Raphael F., *et al.* (See Harris, Edward E., assignor.)
Wilson Remover Company. (See Wilson, John M., assignor.)
Wilson, Reuben W., Indianapolis, Ind. Elevator-stop. No. 1,016,054; Jan. 30; Sp. p. 6508; Gaz. vol. 174; p. 1132.
Wilson, Richard B. (See Bradley, Charles S., assignor.)
Wilson, Robert L., Chicago, Ill. Cork-extractor. No. 1,030,698; June 25; Sp. p. 5943; Gaz. vol. 179; p. 1015.
Wilson, Roland A., Tampa, Fla. Humidor. No. 1,035,507; Aug. 13; Gaz. vol. 181; p. 404.
Wilson, Roy A., Cavite, assignor to Philippine Hemp Machine Company, Manila, Philippine Islands. Defibrating-machine. No. 1,037,389; Sept. 3; Gaz. vol. 182; p. 71.
Wilson, Samuel W., Atwater, Ohio. Safety-lock for pocket-books. No. 1,030,957; July 2; Gaz. vol. 180; p. 37.
Wilson, Thomas M., Philadelphia, Pa. Drier. No. 1,027,513; May 28; Sp. p. 5326; Gaz. vol. 178; p. 933.
Wilson, Thomas N., Spokane, Wash. Combined saw-set and swage. No. 1,041,547; Oct. 15; Gaz. vol. 183; p. 698.
Wilson, Tom, Chicago, Ill. Drum-rod support. No. 1,014,109; Jan. 9; Sp. p. 2283; Gaz. vol. 174; p. 380.
Wilson, Virgil A., East Point, Ga. Level. No. 1,020,733; Mar. 19; Sp. p. 3677; Gaz. vol. 176; p. 647.
Wilson, Walter J., Pittsburgh, Pa. Insulator-pin. No. 1,013,250; Jan. 2; Sp. p. 353; Gaz. vol. 174; p. 56.
Wilson, Welads A., North Yakima, Wash. Combined roller and ditcher. No. 1,014,733; Jan. 16; Sp. p. 3662; Gaz. vol. 174; p. 625.
Wilson, Willard F., West Hoboken, N. J. Impression-holder. No. 1,018,466; Feb. 27; Sp. p. 4936; Gaz. vol. 175; p. 872.
Wilson, William, Birmingham, Mich. Collar coupling or fastener. No. 1,020,242; Mar. 12; Sp. p. 2637; Gaz. vol. 176; p. 447.
Wilson, William E. (See Fenstermacher and Wilson.)
Wilson, William G., West Brighton, N. Y. Track construction. No. 1,040,082; Oct. 1; Gaz. vol. 183; p. 137
Wilson, William P., assignor to J. C. Beam, Shelby, N. C. Hay-baling press. No. 1,029,780; June 18; Sp. p. 3715; Gaz. vol. 179; p. 654.
Wilson, Winfred C., Sunset, Tex. Poultry feeding and watering device. No. 1,025,225; May 7; Sp. p. 257; Gaz. vol. 178; p. 43.
Wilson, Wyle T., Philadelphia, Pa. Paper receptacle for lamp-mantles. No. 1,043,556; Nov. 5; Gaz. vol. 184; p. 183.
Wilson, Wyle T., Philadelphia, Pa., and A. B. Starr, assignors to Single Service Package Corporation of America, New York, N. Y. Tube-winding machine. No. 1,042,862; Oct. 29; Gaz. vol. 183; p. 1211.
Wilson, Wylie G., Elizabeth, assignor to W. G. Wilson Company, Montclair, N. J. Conveying and discharging apparatus. No. 1,041,548; Oct. 15; Gaz. vol. 183; p. 698.
Wilson, Wylie G., Elizabeth, assignor to W. G. Wilson Company, Montclair, N. J. Machine for moving and depositing concrete and other plastic material. No. 1,048,019; Dec. 24; Gaz. vol. 185; p. 869.
Wilt, Charles T. and E. E., assignors to C. T. Wilt, Chicago, Ill. Trunk. No. 1,015,604; Jan. 23; Sp. p. 5548; Gaz. vol. 174; p. 950.
Wilt, Charles T. and E. E., assignors to C. T. Wilt, Chicago, Ill. Garment-hanger. No. 1,015,605; Jan. 23; Sp. p. 5549; Gaz. vol. 174; p. 950.
Wilt, Charles T. and E. E., assignors to C. T. Wilt, Chicago, Ill. Garment-hanger. No. 1,015,606; Jan. 23; Sp. p. 5551; Gaz. vol. 174; p. 950.
Wilt, Chas. T. (See Dorn, George, assignor.)
Wilt, Firm of Chas. T. (See Wilt, Charles T. and E. E., assignors.)
Wilt, Darah S., and C. E. Belford, Richmond, Ind. Spring-horseshoe. No. 1,035,508; Aug. 13; Gaz. vol. 181; p. 405.
Wilt, Dorah S. and F. P. F., assignors of one-third to C. E. Belford, Richmond, Ind. Spring-horseshoe. No. 1,032,097; July 9; Gaz. vol. 180; p. 473.
Wilt, Elmer E. (See Wilt, Charles T. and E. E.)
Wilt, Frank P. F. (See Wilt, Dorah S. and F. P. F.)

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Wilting, Joseph. (See Harrison and Wilting.)
Wilton, Daniel, *et al.* (See Wilson, James, assignor.)
Wilton, George E., assignor to Wilton Patent Cedar Siding Company, Everett, Wash. Machine for trimming and shaping the side edges of boards. No. 1,015,528; Jan. 23; Sp. p. 5379; Gaz. vol. 174; p. 922.
Wilton, George R. (See Bell, Wilton, and Griffith.)
Wilton Patent Cedar Siding Company. (See Wilton, George E., assignor.)
Wilton, Ralph P., Wrightsville, Pa. Locking means for valves. No. 1,043,281; Nov. 5; Gaz. vol. 184; p. 83.
Wiltse, Alvin L., Olathe, Kans. Rural mail-box. No. 1,045,488; Nov. 26; Gaz. vol. 184; p. 941.
Wiltshire, William H., Gillespieville, Ohio. Rail-joint. No. 1,027,956; May 28; Sp. p. 6288; Gaz. vol. 178; p. 1081.
Wilzin, Arthur, St.-Ouen, Seine, France. Manufacture of metal forks and spoons. No. 1,026,421; May 14; Sp. p. 2940; Gaz. vol. 178; p. 487.
Winandy, Michael, Chicago, Ill. Bench for greenhouses. No. 1,022,616; Apr. 9; Sp. p. 1826; Gaz. vol. 177; p. 319.
Winans, Wesley G., Cleveland, Ohio. Attachment for hinged seats. No. 1,019,397; Mar. 5; Sp. p. 919; Gaz. vol. 176; p. 135.
Winchel, James E., Cleveland, Ohio. Combined desk and register. No. 1,017,357; Feb. 13; Sp. p. 2495; Gaz. vol. 175; p. 423.
Winchester Repeating Arms Co. (See Bennett, Winchester, assignor.)
Winchester Repeating Arms Co. (See Buell, William H., assignor.)
Winchester Repeating Arms Co. (See Burton, Frank F., assignor.)
Winchester Repeating Arms Co. (See Johnson, Thomas C., assignor.)
Winchester Repeating Arms Co. (See Knous, Franklin F., assignor.)
Winchester Repeating Arms Co. (See Starkweather, Henry W., assignor.)
Winchester Repeating Arms Co. (See Stevenson, Charles H., assignor.)
Winchester Repeating Arms Company. (See Tilton, Walter H., assignor.)
Wind, Iver E., Danevang, Tex. Weeder. No. 1,049,188; Dec. 31; Gaz. vol. 185; p. 1307.
Winde-Muller, Jan H., Rotterdam, Netherlands. Flame-spreader. No. 1,035,127; Aug. 6; Gaz. vol. 181; p. 241.
Winde, Oswald, Lutzschena-Leipzig, Germany. Apparatus for steeping grain. No. 1,042,739; Oct. 29; Gaz. vol. 183; p. 1168.
Windecker, Otto, Strassburg-Ruprechtsan, Germany. Apparatus for rolling out metal tubes. No. 1,044,113; Nov. 12; Gaz. vol. 184; p. 405.
Winder, Samuel E., assignor of one-half to W. L. Carney, Waltham, Mass. Pie-crust molding and rolling device. No. 1,035,065; Aug. 6; Gaz. vol. 181; p. 220.
Windhoff, Hans, Berlin-Schöneberg, Germany. Roller-skid for railway-cars and similar vehicles. No. 1,014,197; Jan. 9; Sp. p. 2451; Gaz. vol. 174; p. 412.
Windhoff, Hans, Schöneberg, near Berlin, Germany. Hoisting-gear. No. 1,021,347; Mar. 26; Sp. p. 4965; Gaz. vol. 176; p. 906.
Windhorst & Company. (See Walker, Albert R., assignor.)
Windmueller, Paul E., assignor of one-fourth to W. Seidel, Chicago, Ill. Safe. No. 1,023,605; Apr. 16; Sp. p. 3939; Gaz. vol. 177; p. 692.
Window Glass Machine Company. (See Clark, Henry F., assignor.)
Window Glass Machine Company. (See Lubbers, John H., assignor.)
Window Glass Machine Company. (See Nevergold, George, assignor.)
Window Glass Machine Company. (See Smythe, Horace E., assignor.)
Windrath, Hermann, and H. Eicken, Grevenbroich, Germany. Dyeing apparatus. No. 1,021,811; Apr. 2; Sp. p. 113; Gaz. vol. 177; p. 23.
Windridge, James, assignor to the Lyman Gun Sight Corporation, Middlefield, Conn. Sight for fire-arms. No. 1,018,224; Feb. 20; Sp. p. 4418; Gaz. vol. 175; p. 759.
Windsor, Benjamin F. (See Luebke, August H., assignor.)
Windsor, Herbert T., Walworth, Wis. Rail-bond. No. 1,032,793; July 16; Gaz. vol. 180; p. 755.
Wine Railway Appliance Company, The. (See Wine, William E., assignor.)
Wine, William E. (See Shields and Wine.)
Wine, William E., Wilmington, N. C., assignor to The Wine Railway Appliance Company. Ladder. No. 1,040,083; Oct. 1; Gaz. vol. 183; p. 138.
Wine, William E., Wilmington, N. C., assignor to The Wine Railway Appliance Company. Ventilating-shutter. No. 1,040,084; Oct. 1; Gaz. vol. 183; p. 138.
Wineberg, David L., Rockland, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. End-lasting mechanism. No. 1,027,024; May 21; Sp. p. 4291; Gaz. vol. 178; p. 730.
Wineman, Andrew, Detroit, Mich. Dose-measuring bottle. No. 1,044,719; Nov. 19; Gaz. vol. 184; p. 644.
Wineman, Gustave A., Detroit, Mich. Cash-register. No. 1,033,973; July 30; Gaz. vol. 180; p. 1216.
Wing, George C., *et al.* (See Lipps, Louis P., assignor.)
Wing, John F., Maywood, Ill. Sheet-metal-working machine. No. 1,031,605; July 2; Gaz. vol. 180; p. 262.
Wingaard, Oscar, Chicago, Ill., assignor, by mesne assignments, to Hoskins Manufacturing Company, Detroit, Mich. Making magnetic pole-pieces. No. 1,017,031; Feb. 13; Sp. p. 1776; Gaz. vol. 175; p. 309.
Wingender, George, New York, N. Y. Drip-tray for dishes. No. 1,025,178; May 7; Sp. p. 153; Gaz. vol. 178; p. 26.
Wingo, Richard T., assignor to Cadillac Motor Car Company, Detroit, Mich. Testing-jack. No. 1,029,163; June 11; Sp. p. 2373; Gaz. vol. 179; p. 404.
Wingquist, Sven G. (See Olsson and Wingquist.)
Wingquist, Sven G., assignor to Aktiebolaget Svenska Kullagerfabriken, Gottenborg, Sweden. Ball-bearing. No. 1,028,844; June 4; Sp. p. 1666; Gaz. vol. 179; p. 260.
Winkelmann, Werner, New York, N. Y. Safety-receptacle. No. 1,033,647; July 23; Gaz. vol. 180; p. 1078.
Winkelmiller, Oscar, and E. C. Berners, Two Rivers, Wis. Glue and mucilage receptacle. No. 1,048,255; Dec. 24; Gaz. vol. 185; p. 947.
Winkle, Eugen. (See Winkle, Norbert and E.)
Winkle, Norbert and E., Altenstadt, Germany. Centering-gage for copying-lathes. No. 1,033,648; July 23; Gaz. vol. 180; p. 1079.
Winkler, Ehregott T., assignor to H. Hervey, Kansas City, Mo. Addressing-machine. No. 1,044,616; Nov. 19; Gaz. vol. 184; p. 608.
Winkler, Franz, assignor to Schweinfurter Präcisions-Kugel-Lager-Werke Fichtel & Sachs, Schweinfurt, Germany. Variable-speed gearing. No. 1,045,236; Nov. 26; Gaz. vol. 184; p. 853.
Winkler, Franz, assignor to Schweinfurter Präcisions-Kugel-Lager-Werke Fichtel & Sachs, Schweinfurt, Germany. Planet-gearing for variable speeds. No. 1,045,237; Nov. 26; Gaz. vol. 184; p. 853.
Winkler, Franz, assignor to Schweinfurter Präcisions-Kugel-Lager-Werke Fichtel & Sachs, Schweinfurt, Germany. Multiple-speed gearing. No. 1,045,238; Nov. 26; Gaz. vol. 184; p. 853.
Winkler, Frederick C., Victoria, British Columbia, Canada. Antifriction-bearing compound. No. 1,015,920; Jan. 30; Sp. p. 6220; Gaz. vol. 174; p. 1084.
Winkler, George. (See Bradley, Philo R., assignor.)
Winkler, Gustav G. F. C. (See Hansen and Winkler.)
Winkler, Joseph F., Dollar Bay, Mich. Animal-trap. No. 1,014,550; Jan. 9; Sp. p. 3185; Gaz. vol. 174; p. 531.
Winkler, Joseph F., Dollar Bay, Mich. Animal-trap. No. 1,039,001; Sept. 17; Gaz. vol. 182; p. 687.
Winkler, Otto, Köpenick, Germany, assignor to General Electric Company. Automatic lubricating device. No. 1,029,331; June 11; Sp. p. 2739; Gaz. vol. 179; p. 463.
Winkley, Erastus E., Lynn, Mass. Lasting-machine. No. 1,018,023; Feb. 20; Sp. p. 3973; Gaz. vol. 175; p. 688.
Winkley, Erastus E., Lynn, Mass. Lasting-machine pincers. No. 1,018,024; Feb. 20; Sp. p. 3979; Gaz. vol. 175; p. 689.
Winkley, Erastus E., Lynn, Mass. Welt-butting machine. No. 1,018,858; Feb. 27; Sp. p. 5821; Gaz. vol. 175; p. 1006.
Winkley, Erastus E., Lynn, Mass. Welt-butting machine. No. 1,018,859; Feb. 27; Sp. p. 5830; Gaz. vol. 175; p. 1006.
Winkley, Erastus E., Lynn, Mass. Automatic shoe-machine. No. 1,018,860; Feb. 27; Sp. p. 5836; Gaz. vol. 175; p. 1007.
Winkley, Erastus E., Lynn, Mass. Building heels. No. 1,020,170; Mar. 12; Sp. p. 2482; Gaz. vol. 176; p. 423.
Winkley, Erastus E., Lynn, Mass. Shoe-support for sole-leveling machines. No. 1,027,025; May 21; Sp. p. 4293; Gaz. vol. 178; p. 730.
Winkley, Erastus E., Lynn, Mass. Sole-machine. No. 1.028.982; June 11; Sp. p. 1985; Gaz. vol. 179; p. 343.
Winkley, Erastus E., Lynn, Mass. Welt-butting machine. No. 1,029,837; June 18; Sp. p. 3843; Gaz. vol. 179; p. 674.
Winkley, Erastus E., Lynn, Mass. Inseam sewing-machine. No. 1,030,043; June 18; Sp. p. 4306; Gaz. vol. 179; p. 744.
Winkley, Erastus E., Lynn, Mass. Machine for operating upon boots and shoes. No. 1,030,627; June 25; Sp. p. 5770; Gaz. vol. 179; p. 991.
Winkley, Erastus E., Lynn, Mass. Shank-stiffener. No. 1,030,628; June 25; Sp. p. 5782; Gaz. vol. 179; p. 992.
Winkley, Erastus E., Lynn, Mass. Lasting-machine. No. 1,030,629; June 25; Sp. p. 5783; Gaz. vol. 179; p. 992.
Winkley, Erastus E., Lynn, Mass. Sole-machine. No. 1,030,958; July 2; Gaz. vol. 180; p. 37.
Winkley, Erastus E., Lynn, Mass. Automatic sole-machine. No. 1,041,215; Oct. 15; Gaz. vol. 183; p. 587.
Winkley, Erastus E., Lynn, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Shoe-jack. No. 1,015,112; Jan. 16; Sp. p. 4486; Gaz. vol. 174; p. 755.
Winkley, Erastus E., Lynn, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Sole-machine. No. 1,030,959; July 2; Gaz. vol. 180; p. 37.

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Winkley, Erastus E., and F. L. Alley, Lynn, Mass.; said Alley assignor to United Shoe Machinery Company, Paterson, N. J. Lasting-machine. No. 1,018,025; Feb. 20; Sp. p. 3981; Gaz. vol. 175; p. 689.
Winkley, Erastus E., and J. C. Smith, Lynn, Mass. Lasting-machine. No. 1,018,022; Feb. 20; Sp. p. 3970; Gaz. vol. 175; p. 688.
Winkley, Erastus E., and B. Phillips, Lynn, Mass. Edge-setting machine. No. 1,034,851; Aug. 6; Gaz. vol. 181; p. 152.
Winkley, Frank D., assignor to Fuller & Johnson Manufacturing Co., Madison, Wis. Carbureter. No. 1,014,988; Jan. 16; Sp. p. 4238; Gaz. vol. 174; p. 713.
Winks, Walter H., Baltimore, Md. Apparatus for treating air. No. 1,042,864; Oct. 29; Gaz. vol. 183; p. 1212.
Winn, Norman B., Tooele, Utah. Weeder and furrower. No. 1,023,701; Apr. 16; Sp. p. 4104; Gaz. vol. 177; p. 720.
Winn, Sidney B., *et al.* (See Adsit, Charles G., assignor.)
Winona Wagon Company. (See Kinney, Henry M., assignor.)
Winquist, Victor, Rockford, Ill. Reed holder and protector for musical instruments. No. 1,016,055; Jan. 30; Sp. p. 6511; Gaz. vol. 174; p. 1133.
Winship, Richard D., and P. E. Smith, Chicago, Ill. Making composition butter. No. 1,028,804; June 4; Sp. p. 1581; Gaz. vol. 179; p. 247.
Winslow, Marlon H., Terre Haute, Ind. Recording device for scales. No. 1,037,701; Sept. 3; Gaz. vol. 182; p. 176.
Winslow, Sidney W. (See Holmes, Charles P., assignor.)
Winslow, William H., assignor to The Steam Power Devices Company, Chicago, Ill. Boiler. No. 1,046,132; Dec. 3; Gaz. vol. 185; p. 114.
Winslow, William H., assignor to The Steam Power Devices Company, Chicago, Ill. Boiler. No. 1,046,133; Dec. 3; Gaz. vol. 185; p. 115.
Winsor, Clifford S. (See Doolittle, Winsor, and Vergason.)
Winsor, James G., Detroit, Mich. Igniting system for the engines of automobiles. No. 1,042,740; Oct. 29; Gaz. vol. 183; p. 1169.
Winston, Charles S., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Service-meter system. No. 1,045,925; Dec. 3; Gaz. vol. 185; p. 44.
Winston, Clarence L., Boston, Mass. Horseshoe. No. 1,039,002; Sept. 17; Gaz. vol. 182; p. 687.
Winston, Earle G., Pittsfield, Mass., assignor to General Electric Company. Transformer-terminal. No. 1,022,912; Apr. 9; Sp. p. 2476; Gaz. vol. 177; p. 422.
Winsze, Nedin, and M. Plocher, St. Louis, Mo. Sanitary cuspidor. No. 1,027,785; May 28; Sp. p. 5875; Gaz. vol. 178; p. 1022.
Winter, August E., Franklin, Pa. Tire. No. 1,015,113; Jan. 16; Sp. p. 4488; Gaz. vol. 174; p. 756.
Winter, Charles, Woodbury, N. J., assignor to Star Seal Company. Machine for applying bottle-seals. No. 1,013,351; Jan. 2; Sp. p. 581; Gaz. vol. 174; p. 92.
Winter, Emil. (See Briede, Otto, assignor.) (Reissue.)
Winter, Gabriel, Vienna, Austria-Hungary, and F. Eichberg, Berlin, Germany, assignors to General Electric Company. Alternating-current dynamo-electric machine. No. 1,016,865; Feb. 6; Sp. p. 1393; Gaz. vol. 175; p. 216.
Winter, Gabriel, and F. Eichberg, Vienna, Austria-Hungary, assignors to General Electric Company. Alternating-current dynamo-electric apparatus. No. 1,016,866; Feb. 6; Sp. p. 1396; Gez. vol. 175; p. 216.
Winter, Harold H., Billings, Mont. Flue. No. 1,049,023; Dec. 31; Gaz. vol. 185; p. 1252.
Winter, Heinrich, Hamburg, Germany. Instrument for measuring bodies. No. 1,023,542; Apr. 16; Sp. p. 3799; Gaz. vol. 177; p. 671.
Winter, Henry W., Methuen, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Leather-skiving machine. No. 1,025,556; May 7; Sp. p. 1010; Gaz. vol. 178; p. 156.
Winter, Henry W., Methuen, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Lip-turning machine. No. 1,030,630; June 25; Sp. p. 5791; Gaz. vol. 179; p. 992.
Winter, Oscar, Philadelphia, Pa. Floor-mat. No. 1,034,667; Aug. 6; Gaz. vol. 181; p. 88.
Winter, Oscar, Philadelphia, Pa. Table-top protector. No. 1,034,852; Aug. 6; Gaz. vol. 181; p. 153.
Winter, Wellington P., assignor of one-half to O. S. Brumback, Toledo, Ohio. Feed-cock. No. 1,044,327; Nov. 12; Gaz. vol. 184; p. 478.
Winter, William, Indianapolis, Ind. Safety-razor. No. 1,015,114; Jan. 16; Sp. p. 4489; Gaz. vol. 174; p. 756.
Winterhalder, Robert, Kamloops, British Columbia, Canada. Automatic electric cut-out switch. No. 1,025,357; May 7; Sp. p. 556; Gaz. vol. 178; p. 87.
Winterhoff, Wilhelm, Dusseldorf, Germany. Pump. No. 1,036,398; Aug. 20; Gaz. vol. 181; p. 749.
Winterman, R. T. (See Ranz, Jacob, assignor.)
Wintermeyer, Otto, Leverkusen, near Cologne, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Apparatus for the manufacture of photographic films. No. 1,022,617; Apr. 9; Sp. p. 1828; Gaz. vol. 177; p. 320.
Wintermute, Augustus A., assignor of one-half to E. E. Comstock, Fresno, Cal. Crude-oil burner. No. 1,047,359; Dec. 17; Gaz. vol. 185; p. 614.
Winterros, Claes E., Takoma Park, D. C. Aeroplane flying-machine. No. 1,039,345; Sept. 24; Gaz. vol. 182; p. 821.
Winters, David L., Chicago, Ill. Water-purifying apparatus. No. 1,030,366; June 25; Sp. p. 5028; Gaz. vol. 179; p. 897.
Winters, Edward B., Coffeyville, Kans. Garter. No. 1,022,217; Apr. 2; Sp. p. 984; Gaz. vol. 177; p. 158.
Winterstein, Fritz, and S. Nitsch, Pressburg, Austria-Hungary. Separating the solid constituents from the liquid constituents of fats or fatty substances. No. 1,020,673; Mar. 19; Sp. p. 3550; Gaz. vol. 176; p. 625.
Winther, Adolf, A. L. Laska, and A. Zitscher, Offenbach-on-the-Main, assignors to Chemische Fabrik Griesheim-Elektron, Frankfort-on-the-Main, Germany. Azo dyes for lakes. No. 1,034,853; Aug. 6; Gaz. vol. 181; p. 153.
Winton, Alexander, Cleveland, Ohio. Carbureter. No. 1,014,551; Jan. 9; Sp. p. 3186; Gaz. vol. 174; p. 531.
Winton, Alexander, Cleveland, Ohio. Driving-shaft for automobiles. No. 1,031,222; July 2; Gaz. vol. 180; p. 132.
Winton, Alexander, Cleveland, Ohio. Governor for internal-combustion marine motors. No. 1,031,223; July 2; Gaz. vol. 180; p. 132.
Winton, Alexander, Cleveland, Ohio. Controlling mechanism. No. 1,040,479; Oct. 8; Gaz. vol. 183; p. 301.
Winton, Alexander, Cleveland, Ohio. Mechanism for controlling the position of the direction-lever of a motor-driven vessel. No. 1,046,529; Dec. 10; Gaz. vol. 185; p. 294.
Winton, Alexander, and H. B. Anderson, assignors to The Winton Motor Carriage Company, Cleveland, Ohio. Igniting mechanism for explosive-engines. No. 1,021,031; Mar. 26; Sp. p. 4302; Gaz. vol. 176; p. 799.
Winton, Alexander, and H. B. Anderson, assignors to The Winton Motor Carriage Company, Cleveland, Ohio. Robe-rail for automobiles. No. 1,041,549; Oct. 15; Gaz. vol. 183; p. 698.
Winton, Alexander, and H. B. Anderson, assignors to The Winton Motor Carriage Company, Cleveland, Ohio. Two-cycle engine. No. 1,046,359; Dec. 3; Gaz. vol. 185; p. 196.
Winton Motor Carriage Company, The. (See Winton and Anderson, assignors.)
Wintrode, Alfred H., administrator. (See Wintrode, Edward B.)
Wintrode, Edward B., deceased; A. H. Wintrode, administrator, Los Angeles, Cal. Trolley-pole retriever. No. 1,039,346; Sept. 24; Gaz. vol. 182; p. 822.
Wintz, James P., Ripley, W. Va. Gas-pump for oil-wells. No. 1,017,722; Feb. 20; Sp. p. 3246; Gaz. vol. 175; p. 582.
Wintzer, Rudolf, Milwaukee, Wis., assignor to Power and Mining Machinery Company, New York, N. Y. Engine-valve. No. 1,021,438; Mar. 26; Sp. p. 5187; Gaz. vol. 176; p. 938.
Wintzer, Rudolf, Milwaukee, Wis., assignor to Power and Mining Machinery Company, New York, N. Y. Reciprocating engine. No. 1,037,840; Sept. 3; Gaz. vol. 182; p. 220.
Winzer, Charles B., Fulham, London, England. Spinning toy. No. 1,032,525; July 16; Gaz. vol. 180; p. 662.
Wirebaugh, David W. (See Wirebaugh, Harmon E., assignor.)
Wirebaugh, Harmon E., Canton, Ohio. Spring-wheel. No. 1,016,534; Feb. 6; Sp. p. 699; Gaz. vol. 175; p. 104.
Wirebaugh, Harmon E., assignor of one-half to D. W. Wirebaugh, Canton, Ohio. Adjustable shade and curtain bracket. No. 1,048,777; Dec. 31; Gaz. vol. 185; p. 1167.
Wireless Specialty Apparatus Company. (See Ehret, Cornelius D., assignor.)
Wirkus, Julius, Minto, N. D. Ice-cutter. No. 1,018,597; Feb. 27; Sp. p. 5290; Gaz. vol. 175; p. 918.
Wirsing, George, Baltimore, Md. Sign-support. No. 1,024,542; Apr. 30; Sp. p. 6020; Gaz. vol. 177; p. 1070.
Wirt, Charles, Philadelphia, Pa., assignor, by mesne assignments, to Wirt Electric Specialty Company. Insulating-joint. No. 1,040,971; Oct. 8; Gaz. vol. 183; p. 471.
Wirt Electric Specialty Company. (See Wirt, Charles, assignor.)
Wirt, Henry E., Lewiston, Minn. Lightning-arrester and test device. No. 1,014,796; Jan. 16; Sp. p. 3800; Gaz. vol. 174; p. 646.
Wirt, Herbert C., Plymouth, Mass., and F. W. Sanford, Chicago, Ill. Lamp-socket. No. 1,043,380; Nov. 5; Gaz. vol. 184; p. 120.
Wirt, Reuben D., Haines City, Fla. Wave-motor. No. 1,037,390; Sept. 3; Gaz. vol. 182; p. 71.
Wirth, Beck & Knauss. (See Wirth, Christoph, assignor.)
Wirth, Charles E., assignor to The Plume & Atwood Manufacturing Company, Waterbury, Conn. Lamp-burner. No. 1,044,961; Nov. 19; Gaz. vol. 184; p. 728.

Alphabetical list of patentees—Continued.

Wirth, Christoph, assignor to Firm of Wirth, Beck & Knauss, Nuremberg, Germany. Wireless-controlled current-distributer. No. 1,029,573; June 11; Sp. p. 3252; Gaz. vol. 179; p. 546.
Wirth, Georg, Augsburg, Germany. Machine for making cigar and cigarette holders. No. 1,029,164; June 11; Sp. p. 2376; Gaz. vol. 179; p. 405.
Wirth, Philip W. (See Mooney, Edward L., assignor.)
Wirth, Rudolph E. (See Taeschner and Wirth.)
Wirts, Stephen M., Detroit, Mich. Drawer-support. No. 1,037,702; Sept. 3; Gaz. vol. 182; p. 177.
Wirts, William J., *et al.* (See Germonprez, John A., assignor.)
Wirtz, Luis, Edgbaston, Birmingham, England. Clutch. No. 1,013,979; Jan. 9; Sp. p. 1993; Gaz. vol. 174; p. 337.
Wisch, Ernest, Milwaukee, Wis. Metallic packing. No. 1,023,189; Apr. 16; Sp. p. 3112; Gaz. vol. 177; p. 556.
Wisconsin Grass Rug and Carpet Company. (See Goodrick, Edward W., assignor.)
Wise Brothers. (See Hazard, Louis A., assignor.)
Wise, Edward W., Centralia, Wash. Boiler. No. 1,037,391; Sept. 3; Gaz. vol. 182; p. 72.
Wise, James B. (See Davis, Merrill, assignor.)
Wise, James B. (See Perkins, Walter H., assignor.)
Wise, James E., assignor to Spang and Company, Butler, Pa. Ignition-tube heater. No. 1,028,412; June 4; Sp. p. 768; Gaz. vol. 179; p. 116.
Wise, John D., Jackson, Tenn. Medicine-dropper. No. 1,026,541; May 14; Sp. p. 3182; Gaz. vol. 178; p. 526.
Wise, John H., Ellwood City, Pa. Curtain-stretcher. No. 1,044,720; Nov. 19; Gaz. vol. 184; p. 645.
Wise, Nathan, New York, N. Y. Safety gas-burner. No. 1,019,741; Mar. 5; Sp. p. 1584; Gaz. vol. 176; p. 247.
Wise, Nathan, New York, N. Y. Thermostatic valve-controlling mechanism. No. 1,030,367; June 25; Sp. p. 5030; Gaz. vol. 179; p. 897.
Wise, Stanley C. (See Wise, William, assignor.)
Wise, William, St. Joseph, assignor of one-third to S. C. Wise, Maysville, Mo. Track-joint. No. 1,027,682; May 28; Sp. p. 5677; Gaz. vol. 178; p. 989.
Wise, William L. (See Hastings and Wise.)
Wisehart, Doctor S., Decatur, Ill. Street or station indicator. No. 1,039,626; Sept. 24; Gaz. vol. 182; p. 920.
Wishart, James M., Pasadena, Cal. Gold-saving machine. No. 1,030,499; June 25; Sp. p. 5328; Gaz. vol. 179; p. 944.
Wishman, Louis N., Kansas City, Mo. Bread-pan. No. 1,020,004; Mar. 12; Sp. p. 2129; Gaz. vol. 176; p. 366.
Wismar, Emil, Los Angeles, Cal. Sprinkler. No. 1,036,765; Aug. 27; Gaz. vol. 181; p. 905.
Wisner, Andrew J., assignor of one-fourth to G. W. Edmonds and one-fourth to E. B. Kyle, Philadelphia, Pa. Car-fender. No. 1,045,655; Nov. 26; Gaz. vol. 184; p. 1001.
Wisner, William H., Brandon, Manitoba, Canada. Non-refillable bottle. No. 1,047,473; Dec. 17; Gaz. vol. 185; p. 653.
Wiśniewski, Vincent, assignor to Luftschiffsantrieb-Gesellschaft mit beschränkter Haftung, Berlin, Germany. Driving-gear for reciprocating propellers. No. 1,032,169; July 9; Gaz. vol. 180; p. 497.
Wissel, Conrad A. (See Ripberger, Jacob, assignor.)
Wissinger, Oscar. (See Schneider, Henry, assignor.)
Wissner, Franz, Mainz, Germany. Book type-writer. No. 1,026,619; May 14; Sp. p. 3342; Gaz. vol. 178; p. 552.
Wister, Harry H. (See Holland and Wister.)
Wistrand, Erick O. (See Lundquist, Carl J., assignor.)
Wiswell, Arthur M., Hutchinson, Kans. Rope-measurer. No. 1,039,468; Sept. 24; Gaz. vol. 182; p. 864.
Wiswell, Leslie C., assignor to Lyon & Healy, Chicago, Ill. Record-disk holder. No. 1,013,916; Jan. 9; Sp. p. 1841; Gaz. vol. 174; p. 315.
Witchel, Evan T. (See Stengel and Witchel.)
Witham Company, The. (See Witham, George S., Jr., assignor.)
Witham, George S., Jr., assignor to The Witham Company, Hudson Falls, N. Y. Carrier-chain. No. 1,029,566; June 11; Sp. p. 3243; Gaz. vol. 179; p. 544.
Witham, Wallace O., Salem, Oreg. Chicken-brooder. No. 1,022,218; Apr. 2; Sp. p. 985; Gaz. vol. 177; p. 158.
Witherell, James S. (See Greer and Witherell.)
Witherill, Roy A., Birmingham, Ala. Forming-machine. No. 1,041,550; Oct. 15; Gaz. vol. 183; p. 698.
Withers, William H., and C. T. Harris, Atlanta, Ga. Automatic cranking device. No. 1,027,957; May 28; Sp. p. 6289; Gaz. vol. 178; p. 1081.
Withrow, Clarence B., Denver, Colo. Automatic signal. No. 1,032,460; July 16; Gaz. vol. 180; p. 640.
Witry, Louis W., assignor to Waterloo Gasolene Engine Company, Waterloo, Iowa. Friction-clutch. No. 1,035,669; Aug. 13; Gaz. vol. 181; p. 459.
Witry, Louis W., assignor to Waterloo Gasolene Engine Company, Waterloo, Iowa. Device for turning crank-pins on engine-shafts. No. 1,045,239; Nov. 26; Gaz. vol. 184; p. 854.
Witsell, John W., Charleston, S. C. Adding-machine. No. 1,035,066; Aug. 6; Gaz. vol. 181; p. 221.
Witsil, Charles W., Stroudsburg, assignor of one-half to F. O. Williams, Analomink, Pa. Means for operating gates. No. 1,043,654; Nov. 5; Gaz. vol. 184; p. 216.
Witt, Carl J., Needles, Cal. Ore-concentrator. No. 1,023,909; Apr. 23; Sp. p. 4585; Gaz. vol. 177; p. 817.
Witt, James H., Merna, Nebr. Stove. No. 1,045,348; Nov. 26; Gaz. vol. 184; p. 891.
Witt, John H., Boston, assignor to Pneumatic Scale Corporation Limited, Quincy, Mass. Machine for closing and sealing the tops of filled cartons. No. 1,036,399; Aug. 20; Gaz. vol. 181; p. 749.
Witt, Louise, San Leandro, Cal. Hospital-bed appliance. No. 1,037,392; Sept. 3; Gaz. vol. 182; p. 72.
Witt, Sophie M., Benicia, Cal. Game apparatus. No. 1,031,157; July 2; Gaz. vol. 180; p. 109.
Wittbecker, William A., St. Paul, Minn. Inside-angle bead. No. 1,030,044; June 18; Sp. p. 4310; Gaz. vol. 179; p. 745.
Witte, Adolf W. K., Hamburg, Germany. Making butter. No. 1,039,627; Sept. 24; Gaz. vol. 182; p. 920.
Witte, William H., Baltimore, Md. Paddle mechanism for vessels. No. 1,034,179; July 30; Gaz. vol. 180; p. 1288.
Wittebolle, Emile J., Camden, N. J., assignor to C. B. Porter & Co., Philadelphia, Pa. Machine for folding the corners of metal pans. No. 1,020,939; Mar. 19; Sp. p. 4094; Gaz. vol. 176; p. 715.
Witteman, Adam P. (See Arnhold and Witteman.)
Wittemann, Jacob F., Lakewood, N. J. Finishing and preparing beverages. No. 1,029,838; June 18; Sp. p. 3863; Gaz. vol. 179; p. 675.
Wittemann, Rudolph W., New York, N. Y. Pressure-regulator for pumps. No. 1,029,409; June 11; Sp. p. 2928; Gaz. vol. 179; p. 490.
Witten, William S., Chicago, Ill. Dump-cart. No. 1,014,734; Jan. 16; Sp. p. 3664; Gaz. vol. 174; p. 626.
Witten, William S., Chicago, Ill. Dump-cart. No. 1,043,989; Nov. 12; Gaz. vol. 184; p. 363.
Witten, William S., Chicago, Ill. Dump-wagon. No. 1,043,990; Nov. 12; Gaz. vol. 184; p. 364.
Witten, William S., Chicago, Ill. Dump-wagon. No. 1,043,991; Nov. 12; Gaz. vol. 184; p. 364.
Witten, William S., Chicago, Ill. Dumping-vehicle. No. 1,043,992; Nov. 12; Gaz. vol. 184; p. 364.
Witten, William S., Chicago, Ill. Hand-cart. No. 1,043,993; Nov. 12; Gaz. vol. 184; p. 365.
Wittenberg, Max, Manchester, England. Mouthpiece for tobacco-pipes and cigarette-holders. No. 1,025,440; May 7; Sp. p. 749; Gaz. vol. 178; p. 116.
Witter, Alfred S., and O. A. Gordon, Waterville, Wash.; said Gordon assignor to said Witter. Photograph-printing machine. No. 1,039,874; Oct. 1; Gaz. vol. 183; p. 69.
Witter, Carl A. L. W., Hamburg, Germany. Separating zinc and lead from mixed sulfids. No. 1,047,360; Dec. 17; Gaz. vol. 185; p. 615.
Witter, William S., Julesburg, Colo. Spark-plug. No. 1,038,701; Sept. 17; Gaz. vol. 182; p. 584.
Witthoefft, Charles H., assignor to Witthoefft Collapsible Concrete Forms Company, St. Louis, Mo. Mold for making hollow concrete columns. No. 1,013,251; Jan. 2; Sp. p. 355; Gaz. vol. 174; p. 56.
Witthoefft, Charles H., assignor to Witthoefft Collapsible Concrete Forms Company, St. Louis, Mo. Form and mold for making concrete buildings. No. 1,013,632; Jan. 2; Sp. p. 1176; Gaz. vol. 174; p. 187.
Witthoefft, Charles H., assignor to Witthoefft Collapsible Concrete Forms Company, St. Louis, Mo. Mold for making concrete chimneys. No. 1,020,005; Mar. 12; Sp. p. 2131; Gaz. vol. 176; p. 367.
Witthoefft, Charles H., assignor to Witthoefft Collapsible Concrete Forms Company, St. Louis, Mo. Apparatus for molding concrete staircases. No. 1,041,551; Oct. 15; Gaz. vol. 183; p. 699.
Witthoefft Collapsible Concrete Forms Company. (See Witthoefft, Charles H., assignor.)
Wittich, William F., Erie, Pa. Shaft boring and tunneling machine. No. 1,043,185; Nov. 5; Gaz. vol. 184; p. 50.
Wittich, William F., Erie, Pa. Shaft boring or tunneling machine. No. 1,046,927; Dec. 10; Gaz. vol. 185; p. 432.
Wittlake, Ernst, Hanover, Germany. Train controlling and signaling system. No. 1,047,474; Dec. 17; Gaz. vol. 185; p. 654.
Wittlin, Jacques, Vienna, Austria-Hungary, assignor of one-half to S. Schlewinger, New York, N. Y. Antiseptic. No. 1,044,840; Nov. 19; Gaz. vol. 184; p. 687.
Wittmann, Charles G. and V. R., Independence, Mo. Trolley-wheel guard. No. 1,043,994; Nov. 12; Gaz. vol. 184; p. 365.
Wittmann, Victor R. (See Wittmann, Charles G. and V. R.)
Witwer, Harvey O., New Hamburg, Ontario, Canada. Rotary valve for internal-combustion engines. No. 1,048,020; Dec. 24; Gaz. vol. 185; p. 869.
Witzenmann, Emil, Pforzheim, Germany. Stick. No. 1,028,649; June 4; Sp. p. 1264; Gaz. vol. 179; p. 194.
Witzenmann, Emil, Pforzheim, Germany. Brake-pipe for railway-cars and the like. No. 1,044,962; Nov. 19; Gaz. vol. 184; p. 728.
Wiha, William. (See Kovar and Wiha.)

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Wlost, Gustav A., Schramberg, Germany. Resonating device. No. 1,020,243; Mar. 12; Sp. p. 2639; Gaz. vol. 176; p. 447.
Wm. B. Mershon & Co. (See Mershon, Edward C., assignor.)
Wm. Cramp & Sons Ship & Engine Building Company, The. (See Metten, John F., assignor.)
Wm. F. Wolff Company, The. (See Ellis, Frederick L., assignor.)
Wm. L. Gilbert Clock Company. (See Alford, Frank R., assignor.)
Wm. L. Gilbert Clock Company. (See Hyde, Charles H., assignor.)
Wobus, Adolph G., and W. L. Humphreys, St. Louis, Mo. Paper-box-forming machine. No. 1,017,836; Feb. 20; Sp. p. 3546; Gaz. vol. 175; p. 623.
Wodarra, Adolf, Friedenau, near Berlin, Germany. Tilting apparatus for emptying portable dust-bins. No. 1,021,649; Mar. 26; Sp. p. 5606; Gaz. vol. 176; p. 1008.
Wodtli, Frederick and G., Foster, Oreg. Antislip-sole. No. 1,036,766; Aug. 27; Gaz. vol. 181; p. 905.
Wodtli, Gottlieb. (See Wodtli, Frederick and G.)
Woeber, Amos. (See Dorsey, Farnum F., assignor.)
Woerner, Robert, Mannheim, Germany. Cigar-pressing box. No. 1,027,094; May 21; Sp. p. 4477; Gaz. vol. 178; p. 755.
Woernley, Harry F., Allegheny, Pa., assignor, by mesne assignments, to H. H. Westinghouse, New York, N. Y. Automatic car-coupling. No. 1,045,489; Nov. 26; Gaz. vol. 184; p. 941.
Wohl, Maurice J. (See Low, Hertzberg, and Wohl.)
Wohl, Maurice J., *et al.*, trustees. (See Betts, Lewis F., assignor.)
Wohl, Maurice J., *et al.*, trustees. (See Hertzberg, Harry, assignor.)
Wohl, Maurice J., *et al.*, trustees. (See Low, Abbot A., assignor.)
Wohl, Maurice J., New York, and H. Hertzberg, Brooklyn, N. Y., assignors to A. A. Low, Horseshoe, M. J. Wohl, New York, and H. Hertzberg, Brooklyn, N. Y., trustees. Arc-lamp construction. No. 1,013,352; Jan. 2; Sp. p. 582; Gaz. vol. 174; p. 93.
Wohl, Max, Jamaica, N. Y. Concrete-block machine. No. 1,034,854; Aug. 6; Gaz. vol. 181; p. 153.
Wohlauer, Alfred A., New York, N. Y. Chart for determining the flux of light. No. 1,034,943; Aug. 6; Gaz. vol. 181; p. 181.
Wojciechowski, Valentine, Brockton, Mass. Flying-machine. No. 1,040,600; Oct. 8; Gaz. vol. 183; p. 346.
Wojidkow, Louis, assignor to New York Stamping Company, Brooklyn, N. Y. Coffee-percolator. No. 1,036,767; Aug. 27; Gaz. vol. 181; p. 905.
Wojidkow, Louis, assignor to New York Stamping Company, Brooklyn, N. Y. Chafing-dish pan. No. 1,044,721; Nov. 19; Gaz. vol. 184; p. 645.
Wojidkow, Louis, assignor to New York Stamping Company, Brooklyn, N. Y. Stopper for receptacles. No 1,045,100; Nov. 19; Gaz. vol. 184; p. 776.
Wojidkow, Louis, assignor to New York Stamping Company, Brooklyn, N. Y. Hot-water plate. No. 1,045,101; Nov. 19; Gaz. vol. 184; p. 776.
Wokoun, Frank, New York, N. Y. Package-display apparatus. No. 1,041,552; Oct. 15; Gaz. vol. 183; p. 699.
Wold, Carl O., Minneapolis, Minn. Grading-machine. No. 1,023,057; Apr. 9; Sp. p. 2777; Gaz. vol. 177; p. 473.
Wold, Christian, Sioux City, assignor of one-half to A. K. Troup, Woodbury, Iowa. Miter-box. No. 1,033,140; July 23; Gaz. vol. 180; p. 909.
Wold, Norman J., Mount Nebo, Saskatchewan, Canada. Churn. No. 1,047,475; Dec. 17; Gaz. vol. 185; p. 654.
Wold, Olaus C., Chicago, Ill. Air-brush. No. 1,017,358; Feb. 13; Sp. p. 2498; Gaz. vol. 175; p. 423.
Woldan, Paul F., Brooklyn, N. Y. Gas-heater. No. 1,041,553; Oct. 15; Gaz. vol. 183; p. 699.
Woldert Grocery Co. (See Gradick, Wiley, Sr., assignor.)
Woldert Grocery Company. (See Moser, Frank W., assignor.)
Wolf, Aaron, and A. Governale, New York, assignors to Metallic Flexible Hose Company, Brooklyn, N. Y. Corner-post fastening. No. 1,048,256; Dec. 24; Gaz. vol. 185; p. 947.
Wolf, Augustus, Chambersburg, Pa. Dust-separator. No. 1,025,730; May 7; Sp. p. 1380; Gaz. vol. 178; p. 215.
Wolf, Augustus, Chambersburg, Pa. Grain-treating machine. No. 1,040,085; Oct. 1; Gaz. vol. 183; p. 138.
Wolf, Augustus, Chambersburg, Pa. Grain-cleaning machine. No. 1,040,086; Oct. 1; Gaz. vol. 183; p. 139.
Wolf-Burckhardt, Franz, Biebrich, Germany. Manufacture of hollow bodies from quartz. No. 1,031,900; July 9; Gaz. vol. 180; p. 407.
Wolf, Charles K., near Xenia, Ohio. Wire-working appliance. No. 1,038,052; Sept. 10; Gaz. vol. 182; p. 327.
Wolf, Charles K., near Xenia, Ohio. Harvester attachment. No. 1,038,053; Sept. 10; Gaz. vol. 182; p. 327.
Wolf, Daniel C., Philadelphia, Pa. Button. No. 1,040,831; Oct. 8; Gaz. vol. 183; p 425.
Wolf Electrical Promoting Company, The. (See Meyer, Henry A., assignor.)
Wolf, Fannie. (See Sussman, Leon, assignor.)
Wolf, Frank. (See Nielsen, Anton E., assignor.)
Wolf, Frank, New York, N. Y. Advertising device for railway-cars. No. 1,031,899; July 9; Gaz. vol. 180; p. 407.
Wolf, Franz E., Nowawes, near Potsdam, Germany. Exhaust-silencer for internal-combustion engines. No. 1,032,794; July 16; Gaz. vol. 180; p. 755.
Wolf, Fred W., Jr. (See Southworth and Wolf.)
Wolf, Fred W., Jr., and H. H. Southworth, assignors to Iceless Refrigerator Company, Chicago, Ill. Refrigerating apparatus. No. 1,046,134; Dec. 3; Gaz. vol. 185; p. 115.
Wolf, Fred W., Jr., and H. H. Southworth, assignors to Iceless Refrigerator Company, Chicago, Ill. Refrigerating apparatus. No. 1,046,135; Dec. 3; Gaz. vol. 185; p. 116.
Wolf, George. (See Currier and Wolf.)
Wolf, Lesser, New York, assignor of one-half to H. Blankfort, Brooklyn, N. Y. Dumping-cart. No. 1,024,959; Apr. 30; Sp. p. 6920; Gaz. vol. 177; p. 1216.
Wolf, Lewis, McNabb, Ill. Harp-action. No. 1,033,856; July 30; Gaz. vol. 180; p. 1174.
Wolf, Lewis, McNabb, Ill. Harp-action. No. 1,037,569; Sept. 3; Gaz. vol. 182; p. 132.
Wolf, Lewis, McNabb, Ill. Automobile vehicle. No. 1,038,054; Sept. 10; Gaz. vol. 182; p. 328.
Wolf, Linus, Boston, Mass. Connection for pressure-tanks. No. 1,026,066; May 14; Sp. p. 2163; Gaz. vol. 178; p. 365.
Wolf, Otto A., assignor to G. B. Hurd & Company, New York, N. Y. Display-box. No. 1,029,096; June 11; Sp. p. 2234; Gaz. vol. 179; p. 381.
Wolf, Philip. (See Fleischmann and Wolf.)
Wolf, Rudolf, Magdeburg-Buckau, Germany. Shaft-governor for engines. No. 1,038,055; Sept. 10; Gaz. vol. 182; p. 328.
Wolf, Sidney I. J., assignor to Wolf's Music Time Blocks Limited, Dunedin, New Zealand. Musical blocks. No. 1,039,347; Sept. 24; Gaz. vol. 182; p. 822.
Wolf, Theodor, assignor to Eureka Table Company, St. Louis, Mo. Ironing-board attachment for kitchen-tables. No. 1,043,186; Nov. 5; Gaz. vol. 184; p. 50.
Wolfe, Abner K., Atchison, Kans., assignor of one-half to C. Davis, Rulo, Nebr. Side bearing. No. 1,031,761; July 9; Gaz. vol. 180; p. 359.
Wolfe, Albert C. (See Mapson and Wolfe.)
Wolfe, Alfred C. (See Taylor and Wolfe.)
Wolfe, Daniel J., Gilroy, Cal. Hay-press. No. 1,048,623; Dec. 31; Gaz. vol. 185; p. 1112.
Wolfe, Elvin A., and H. W. Gilbert, Nazareth, Pa. Driving connection. No. 1,037,393; Sept. 3; Gaz. vol. 182; p. 72.
Wolfe, George F., New York, N. Y., assignor to United Shoe Machinery Company, Paterson, N. J. Edge gage for stock-fitting machines. No. 1,030,631; June 25; Sp. p. 5793; Gaz. vol. 179; p. 993.
Wolfe, George M., Montpelier, Idaho. Water-gage cock. No. 1,035,111; Aug. 6; Gaz. vol. 181; p. 236.
Wolfe, James T., Washington, D. C. Fountain-pen. No. 1,019,874; Mar. 12; Sp. p. 1848; Gaz. vol. 176; p. 324.
Wolfe, John A. (See Gibney and Wolfe.)
Wolfe, John W., Shenandoah, Iowa. Air-craft. No. 1,014,276; Jan. 9; Sp. p. 2632; Gaz. vol. 174; p. 439.
Wolfe, Joseph, Gagetown, Mich. Corn-husker. No. 1,048,624; Dec. 31; Gaz. vol. 185; p. 1112.
Wolfe, Laura J., Waltham, Mass. Adjustable veil. No. 1,031,307; July 2; Gaz. vol. 180; p. 162.
Wolfe, Lenard, Mattoon, Wis. Wood-sawing machine. No. 1,025,773; May 7; Sp. p. 1459; Gaz. vol. 178; p. 230.
Wolfe, Louis C., Altoona, Pa. Controlling means for explosive-engines. No. 1,017,359; Feb. 13; Sp. p. 2500; Gaz. vol. 175; p. 424.
Wolfe, Sherman T. (See Cairncross, Andrew S., assignor.)
Wolfe, Thomas G., Oklahoma, Okla. Press. No. 1,015,371; Jan. 23; Sp. p. 5037; Gaz. vol. 174; p. 869.
Wolfe, Walter G., Wakefield, assignor to F. Van Raalte, Boston, Mass. Taximeter. No. 1,043,381; Nov. 5; Gaz. vol. 184; p. 120.
Wölfer, Ernst, Gotha, Germany. Can-opener. No. 1,024,543; Apr. 30; Sp. p. 6021; Gaz. vol. 177; p. 1070.
Wolff, Aaron. (See Jacobson and Wolff.)
Wolff, Albert, Cologne, Germany. Preparation of chrome-leather. No. 1,023,451; Apr. 16; Sp. p. 3623; Gaz. vol. 177; p. 642.
Wolff, Albert, Cologne, assignor to M. Steinkrüger, *née* Engelskirchen, Cologne-Bickendorf, Germany. Preparation of formic esters. No. 1,039,875; Oct. 1; Gaz. vol. 183; p. 69.
Wolff, Christian J., Chicago, Ill. Valve-spring lifter for automobile and other engines. No. 1,027,164; May 21; Sp. p. 4623; Gaz. vol. 178; p. 776.
Wolff and Company, Walther, G. m. b. H. (See Zuckmayer, Fritz, assignor.)
Wolff, Eugene H., La Salle, assignor to Illinois Zinc Company, Peru, Ill. Vent for acid or other tank-cars. No. 1,032,170; July 9; Gaz. vol. 180; p. 497.
Wolff, Herbert W., assignor to American Car and Foundry Company, St. Louis, Mo. Car-underframe. No. 1,021,123; Mar. 26; Sp. p. 4484; Gaz. vol. 176; p. 828.

Alphabetical list of patentees—Continued.

Wolff, Herbert W., assignor to American Car and Foundry Company, St. Louis, Mo. Car-underframe. No. 1,021,124; Mar. 26; Sp. p. 4487; Gaz. vol. 176; p. 829.
Wolff, Marc, Chelsea, England, assignor to Messrs. Michelin & Cie., Clermont-Terrand, France. Detachable rim for vehicles. No. 1,044,328; Nov. 12; Gaz. vol. 184; p. 478.
Wolff, Nathan. (See Becker and Wolff.)
Wolff, Peter J., Bedburg, Germany. Process of diffusion. No. 1,028,650; June 4; Sp. p. 1265; Gaz. vol. 179; p. 195.
Wolff Truck Frame Company. (See Hart, Harry S., assignor.)
Wolffenstein, Richard, and J. Colman, assignors to Actien Gesellschaft für Anilin Fabrikation, Berlin, Germany. Hair-dye. No. 1,019,576; Mar. 5; Sp. p. 1280; Gaz. vol. 176; p. 192.
Wolffradt, William von, Cleveland, Ohio. Window-sash-operating mechanism. No. 1,028,171; June 4; Sp. p. 263; Gaz. vol. 179; p. 32.
Wolfgang, Hans, Milwaukee, Wis. Safety hat-pin. No. 1,032,795; July 16; Gaz. vol. 180; p. 756.
Wolfinger, John, New York, N. Y. Non-refillable bottle. No. 1,027,787; May 28; Sp. p. 5878; Gaz. vol. 178; p. 1023.
Wolford, Hiram, Canton, Ohio. Vegetable-grater. No. 1,032,720; July 16; Gaz. vol. 180; p. 731.
Wolfram Lampen Aktien-Gesellschaft. (See Lüdecke, Georg, assignor.)
Wolfrom, Eli J., Salida, Colo. Cutting apparatus. No. 1,046,530; Dec. 10; Gaz. vol. 185; p. 294.
Wolf's Music Time Blocks Limited. (See Wolf, Sidney I. J., assignor.)
Wolfson, David, Atlanta, Ga. Trunk. No. 1,031,762; July 9; Gaz. vol. 180; p. 360.
Wolfson, John, New Haven, Conn. Car lifting and replacing device. No. 1,026,337; May 14; Sp. p. 2756; Gaz. vol. 178; p. 460.
Wolhaupter, Benjamin, New Rochelle, assignor to The Rail Joint Company, New York, N. Y. Means for insulating rail-joints. No. 1,034,180; July 30; Gaz. vol. 180; p. 1288.
Wolhaupter, Benjamin, New Rochelle, assignor to The Rail Joint Company, New York, N. Y. Means for insulating rail-joints. No. 1,034,181; July 30; Gaz. vol. 180; p. 1288.
Wolhaupter, Benjamin, New Rochelle, assignor to The Rail Joint Company, New York, N. Y. Means for insulating rail-joints. No. 1,034,379; July 30; Gaz. vol. 180; p. 1358.
Wolhaupter, Benjamin, New Rochelle, assignor to The Rail Joint Company, New York, N. Y. Track-fastening for rail-joints. No. 1,038,811; Sept. 17; Gaz. vol. 182; p. 622.
Wolhaupter, Benjamin, New Rochelle, assignor to The Rail Joint Company, New York, N. Y. Rail-joint. No. 1,045,349; Nov. 26; Gaz. vol. 184; p. 892.
Wolhaupter, Benjamin, New Rochelle, assignor to The Rail Joint Company, New York, N. Y. Angle-bar step-joint. No. 1,045,350; Nov. 26; Gaz. vol. 184; p. 892.
Wolhaupter, David P., Washington, D. C. Electrical pull-socket. No. 1,024,304; Apr. 23; Sp. p. 5449; Gaz. vol. 177; p. 955.
Wolhaupter, David P., Washington, D. C. Anticreeper tie-plate. No. 1,038,702; Sept. 17; Gaz. vol. 182; p. 584.
Wolin, Max, New York, N. Y. Spiral tool-driver. No. 1,024,960; Apr. 30; Sp. p. 6921; Gaz. vol. 177; p. 1216.
Wolkow, Isaac L., Louisville, Ky. Twisting-machine. No. 1,039,876; Oct. 1; Gaz. vol. 183; p. 69.
Wolle, Rudolf. (See Wilhelmi, Otto, assignor.)
Wollensak, Andrew, assignor to Wollensak Optical Company, Rochester, N. Y. Photographic shutter. No. 1,035,762; Aug. 13; Gaz. vol. 181; p. 490.
Wollensak Optical Company. (See Wollensak, Andrew, assignor.)
Wolleson, James L., Pittsburg, Kans. Cigar-holder. No. 1,023,288; Apr. 16; Sp. p. 3306; Gaz. vol. 177; p. 591.
Wollheim, Heinrich, Berlin, Germany, assignor to American Stamp and Ticket Vending Machine Company, New York, N. Y. Printing-roll. No. 1,014,110; Jan. 9; Sp. p. 2285; Gaz. vol. 174; p. 381.
Wolper, Isaac, New York, N. Y. Auxiliary pilot for railway-trains. No. 1,014,552; Jan. 9; Sp. p. 3188; Gaz. vol. 174; p. 531.
Wolseley Tool and Motor Car Company, The. (See Rowledge, Arthur J., assignor.)
Wolter, Ferdinand R., Minneapolis, Minn. Mop-holder. No. 1,037,703; Sept. 3; Gaz. vol. 182; p. 177.
Wolters, Wilhelm. (See Giese and Wolters.)
Woltz, Albert M. (See Howser and Woltz.)
Wolverton, Washington I., Holton, Kans. Animal-trap. No. 1,024,875; Apr. 30; Sp. p. 6748; Gaz. vol. 177; p. 1187.
Womack, Daniel W., Prescott, Ariz. Pipe. No. 1,031,102; July 2; Gaz. vol. 180; p. 90.
Womack, John H., Kentwood, La. Turpentine-gatherer. No. 1,027,958; May 28; Sp. p. 6291; Gaz. vol. 178; p. 1081.
Womelsdorf, George H., Philadelphia, Pa. Sealing-ring for jar-closures. No. 1,026,542; May 14; Sp. p. 3183; Gaz. vol. 178; p. 527.
Wommer, Charles, Mammoth, Cal. Safety-clamp for drill-rods and the like. No. 1,036,400; Aug. 20; Gaz. vol. 181; p. 750.
Wood, Adam I. (See Kirby, Robert C., assignor.)
Wood, Alfred R., Troy, N. Y., assignor, by mesne assignments, to The Singer Manufacturing Company, Elizabeth, N. J. Thread-trimming mechanism for sewing-machines. No. 1,013,252; Jan. 2; Sp. p. 356; Gaz. vol. 174; p. 57.
Wood, Anna E., Cincinnati, Ohio. Book-holder. No. 1,035,290; Aug. 13; Gaz. vol. 181; p. 329.
Wood, Benajah W. (See Pledger and Wood.)
Wood Brothers Thresher Company. (See Wood, Franz J., assignor.)
Wood, Charles C., assignor of one-half to M. S. Meier, Culdesac, Idaho. Saw. No. 1,042,633; Oct. 29; Gaz. vol. 183; p. 1132.
Wood, Charles H., and J. T. Powers, St. Louis, Mo. Lamp-support. No. 1,037,096; Aug. 27; Gaz. vol. 181; p. 1015.
Wood, Charles L., Woburn, Mass. Game apparatus. No. 1,025,226; May 7; Sp. p. 258; Gaz. vol. 178; p. 43.
Wood, Charles W., *et al.* (See Parsons, Cecil W., assignor.)
Wood, Clarence S., assignor to Briscoe Manufacturing Company, Detroit, Mich. Hood for automobiles. No. 1,037,394; Sept. 3; Gaz. vol. 182; p. 73.
Wood, Clarence S., assignor to Briscoe Manufacturing Company, Detroit, Mich. Automobile-hood. No. 1,037,395; Sept. 3; Gaz. vol. 182; p. 73.
Wood, David W., Brazil, Ind. Coin-controlled lock. No. 1,041,396; Oct. 15; Gaz. vol. 183; p. 648.
Wood, David W., Brazil, Ind. Safety-razor. No. 1,041,397; Oct. 15; Gaz. vol. 183; p. 649.
Wood, Edward C., Somerville, Mass., assignor to Submarine Signal Company, Waterville, Me. Submarine sound-signaling apparatus. No. 1,035,291; Aug. 13; Gaz. vol. 181; p. 329.
Wood, Edward C., Somerville, Mass., assignor to Submarine Signal Company, Waterville, Me. Sounder. No. 1,035,292; Aug. 13; Gaz. vol. 181; p. 329.
Wood, Edward M., Worcester, Mass. Starting device for explosive-engines. No. 1,021,812; Apr. 2; Sp. p. 115; Gaz. vol. 177; p. 23.
Wood, F. A. (See Skidmore, Charles, assignor.)
Wood, Fayette H. (See Wood, Rodney J., assignor.)
Wood, Frank W., New York, N. Y. Boiler-timing device. No. 1,038,495; Sept. 10; Gaz. vol. 182; p. 477.
Wood, Franz J., Des Moines, Iowa. Valve-gear for engines. No. 1,018,688; Feb. 27; Sp. p. 5467; Gaz. vol. 175; p. 948.
Wood, Franz J., Des Moines, Iowa. Speed-governor. No. 1,031,670; July 2; Gaz. vol. 180; p. 285.
Wood, Franz J., assignor to Wood Brothers Thresher Company, Des Moines, Iowa. Band-cutter and feeder. No. 1,044,329; Nov. 12; Gaz. vol. 184; p. 479.
Wood, Fred H., Elgin, N. D. Ball-returning device. No. 1,030,558; June 25; Sp. p. 5499; Gaz. vol. 179; p. 964.
Wood, Frederick L. (See Pain and Wood.)
Wood, Frederick L., Meriden, Conn., assignor to Aeolian Company, New York, N. Y. Valve mechanism for motors. No. 1,042,634; Oct. 29; Gaz. vol. 183; p. 1132.
Wood, Frederick W., Mayer, Ariz. Case for disk records. No. 1,014,929; Jan. 16; Sp. p. 4112; Gaz. vol. 174; p. 693.
Wood, Frederick W., Los Angeles, Cal. Case for disk records for phonographs. No. 1,018,689; Feb. 27; Sp. p. 5470; Gas. vol. 175; p. 948.
Wood, Frederick W., Los Angeles, Cal. Brushing means for disk records for phonographs. No. 1,018,861; Feb. 27; Sp. p. 5840; Gaz. vol. 175; p. 1007.
Wood, Harry W., Colfax, Iowa. Fountain-pen. No. 1,045,240; Nov. 26; Gaz. vol. 184; p. 854.
Wood, Harvey M., Los Angeles, Cal. Bench-plane. No. 1,042,741; Oct. 29; Gaz. vol. 183; p. 1169.
Wood, Henry A. W., *et al.* (See Tygard, James W., assignor.)
Wood, Henry A. W., New York, N. Y., assignor, by mesne assignments, to The Autoplate Company of America, Jersey City, N. J. Sheet-delivery mechanism. No. 1,040,480; Oct. 8; Gaz. vol. 183; p. 301.
Wood, Henry A. W., assignor, by mesne assignments, to Wood & Nathan Company, New York, N. Y. Intaglio and relief printing device. No. 1,041,934; Oct. 22; Gaz. vol. 183; p. 867.
Wood, Henry A. W., assignor, by mesne assignments, to Wood & Nathan Company, New York, N. Y. Cleaning device for intaglio-plates. No. 1,042,517; Oct. 29; Gaz. vol. 183; p. 1090.
Wood, Henry A. W., assignor to The Wood & Nathan Company, New York, N. Y. Printing-press and sheet-manipulating mechanism therefor. No. 1,042,518; Oct. 29; Gaz. vol. 183; p. 1091.
Wood, Henry A. W., assignor, by mesne assignments, to Wood & Nathan Company, New York, N. Y. Sheet-fed intaglio-printing press. No. 1,048,625; Dec. 31; Gaz. vol. 185; p. 1112.

Wood, Hezekiah M., Canadian, Tex. Wrench. No. 1,025,179; May 7; Sp. p. 154; Gaz. vol. 178; p. 26.
Wood, Howard I., Schenectady, N. Y., assignor to General Electric Company. Treating filaments. No. 1,027,165; May 21; Sp. p. 4624; Gaz. vol. 178; p. 776.
Wood, Irving B. (See Barrett and Wood.)
Wood, James N., Richmond, Va., assignor, by mesne assignments, to International Machine Corporation. Shoe-polishing machine. No. 1,024,544; Apr. 30; Sp. p. 6022; Gaz. vol. 177; p. 1071.
Wood, James W., Poughkeepsie, N. Y. Shaving-brush and like article. No. 1,048,778; Dec. 31; Gaz. vol. 185; p. 1168.
Wood, John B., and J. C. Julian, Logansport, Ind. Oil-burner. No. 1,044,722; Nov. 19; Gaz. vol. 184; p. 645.
Wood, John C. B., assignor of one-half to C. E. Justice, Logan, W. Va. Wire-stretcher. No. 1,048,626; Dec. 31; Gaz. vol. 185; p. 1113.
Wood, John C. B., and K. F. Deskins, assignors of one-half to said Deskins and one-half to W. I. Campbell, Logan, W. Va. Fence-post. No. 1,047,361; Dec. 17; Gaz. vol. 185; p. 615.
Wood, John E., assignor to Pittsfield Spark Coil Company, Dalton, Mass. Electric switch. No. 1,048,119; Dec. 24; Gaz. vol. 185; p. 903.
Wood, John M., Detroit, Mich. Tool-holder. No. 1,028,805; June 4; Sp. p. 1582; Gaz. vol. 179; p. 247.
Wood, John T. (See Richardson and Wood.)
Wood, Joseph, Everett, Mass. Handsaw. No. 1,040,832; Oct. 8; Gaz. vol. 183; p. 425.
Wood, Montraville M., Berwyn, assignor to L. E. Myers, Chicago, Ill. Automatic canal system. No. 1,037,396; Sept. 3; Gaz. vol. 182; p. 73.
Wood, Myron G., Hillsdale, Mich. Window-screen. No. 1,015,413; Jan. 23; Sp. p. 5138; Gaz. vol. 174; p. 882.
Wood & Nathan Company. (See Wood, Henry A. W., assignor.)
Wood, Peter S., Burton, Wash. Shortening-mixer. No. 1,038,469; Sept. 10; Gaz. vol. 182; p. 470.
Wood, Pinckney A., Memphis, Tenn., assignor to Pressed Steel Truck Company, Pittsburgh, Pa. Truck. No. 1,033,141; July 23; Gaz. vol. 180; p. 910.
Wood Process Company. (See Born, William G., assignor.)
Wood, Richard W., New York, N. Y. File-cabinet. No. 1,038,703; Sept. 17; Gaz. vol. 182; p. 584.
Wood, Rodney J., assignor to F. H. Wood, Dayton, Ohio. Manifolding sales-book. No. 1,023,910; Apr. 23; Sp. p. 4589; Gaz. vol. 177; p. 818.
Wood, Roy E., Syracuse, Nebr. Carbureter. No. 1,027,456; May 28; Sp. p. 5211; Gaz. vol. 178; p. 914.
Wood, Tingley S., Leadville, Colo. Protective seal. No. 1,017,837; Feb. 20; Sp. p. 3548; Gaz. vol. 175; p. 623.
Wood, Wiliam T., Hereford, Tex. Cut-off. No. 1,021,566; Mar. 26; Sp. p. 5464; Gaz. vol. 176; p. 982.
Wood, William, Stoke-upon-Trent, England. Cover-holder for coffee and tea pots. No. 1,044,114; Nov. 12; Gaz. vol. 184; p. 405.
Wood, William H., Rochester, N. Y. Combined shoe shank and filler. No. 1,021,032; Mar. 26; Sp. p. 4304; Gaz. vol. 176; p. 800.
Wood, William H., Rochester, N. Y. Combined shank stiffener and filler. No. 1,049,284; Dec. 31; Gaz. vol. 185; p. 1339.
Wood, William H., assignor to D. P. McGarry, Rochester, N. Y. Instep-arch support. No. 1,014,687; Jan. 16; Sp. p. 3567; Gaz. vol. 174; p. 610.
Wood, William H. F., New York, N. Y. Filing device. No. 1,043,889; Nov. 12; Gaz. vol. 184; p. 327.
Wood, William P., assignor to Jenckes Spinning Company, Pawtucket, R. I. Heddle for leno-weaving machines. No. 1,031,977; July 9; Gaz. vol. 180; p. 433.
Wood, William P., assignor to Jenckes Spinning Company, Pawtucket, R. I. Shedding mechanism for leno-looms. No. 1,033,507; July 23; Gaz. vol. 180; p. 1032.
Wood, William T., Nashville, Tenn. Oil-burner. No. 1,020,734; Mar. 19; Sp. p. 3678; Gaz. vol. 176; p. 647.
Wood, William T., Nashville, Tenn. Culinary implement. No. 1,024,240; Apr. 23; Sp. p. 5336; Gaz. vol. 177; p. 935.
Wood, Winfield, Denver, Colo. Electric time-switch. No. 1,014,277; Jan. 9; Sp. p. 2634; Gaz. vol. 174; p. 440.
Woodall, Anderson T. (See Van Cleave and Woodall.)
Woodall, Harold W., county of Dorset, and A. M. Duckham, county of Surrey, England. Heating vertical gas-retorts. No. 1,031,606; July 2; Gaz. vol. 180; p. 262.
Woodard, Rubbin J., Danville, Ill. Dinner-pail. No. 1,026,543; May 14; Sp. p. 3184; Gaz. vol. 178; p. 527.
Woodard, William E. (See Cole and Woodard.)
Woodbridge, Joseph L., Philadelphia, Pa. System of electrical distribution. No. 1,014,354; Jan. 9; Sp. p. 2827; Gaz. vol. 174; p. 467.
Woodbridge, Joseph L., Philadelphia, Pa. Electrical system of distribution. No. 1,014,355; Jan. 9; Sp. p. 2830; Gaz. vol. 174; p. 467.
Woodbridge, Joseph L., Philadelphia, Pa. Apparatus for controlling the charge of storage batteries. No. 1,033,508; July 23; Gaz. vol. 180; p. 1032.
Woodbridge, Joseph L., Philadelphia, Pa. System of electrical distribution. No. 1,033,509; July 23; Gaz. vol. 180; p. 1033.
Woodbridge, Joseph L., Philadelphia, Pa. Polarized relay. No. 1,042,183; Oct. 22; Gaz. vol. 183; p. 948.
Woodbridge, Samuel M., San Bernardino, Cal. Precooling apparatus for fruit. No. 1,017,723; Feb. 20; Sp. p. 3248; Gaz. vol. 175; p. 582.
Woodbury, Frederick E., Milwaukee, Wis. Jigger. No. 1,046,702; Dec. 10; Gaz. vol. 185; p. 355.
Woodcock, Willard J., Brooklyn, N. Y. Automobile-tire. No. 1,042,065; Oct. 22; Gaz. vol. 183; p. 909.
Woodeson, William A., Gateshead, England. Steam-boiler. No. 1,030,218; June 18; Sp. p. 4676; Gaz. vol. 179; p. 804.
Woodfield, Otis B., O. M. Morris, and J. W. Gosling, Spring Lake Beach, N. J. Headlight for automobiles. No. 1,014,429; Jan. 9; Sp. p. 2972; Gaz. vol. 174; p. 493.
Woodford, Elbert J., Candor, N. Y. Portable fence. No. 1,038,470; Sept. 10; Gaz. vol. 182; p. 470.
Woodhead, Frank S., Bridgeport, Conn., assignor to The Singer Manufacturing Company. Feeding mechanism for sewing-machines. No. 1,020,068; Mar. 12; Sp. p. 2260; Gaz. vol. 176; p. 389.
Woodhead, Frank S., Bridgeport, Conn., assignor to The Singer Manufacturing Company. Guide for sewing-machines. No. 1,048,779; Dec. 31; Gaz. vol. 185; p. 1168.
Woodhouse, Albert E., Kingsway, London, England. Bendable inclosing casing. No. 1,035,931; Aug. 20; Gaz. vol. 181; p. 585.
Woodhouse, George H., Seattle, Wash., and W. L. Brown, San Francisco, Cal. Amalgamator. No. 1,034,051; July 30; Gaz. vol. 180; p. 1244.
Woodhouse, Henry. (See Matear, Kenney, and Woodhouse.)
Woodhull, Daniel E., New York, N. Y., assignor to American Bank Note Company. Bookbinding-machine. No. 1,037,097; Aug. 27; Gaz. vol. 181; p. 1016.
Woodhull, Frederick W., assignor of one-third to L. H. Stetson, Philadelphia, Pa., and one-third to W. H. Carson, Mount Ephraim, N. J. Window-cleaning device. No. 1,018,147; Feb. 20; Sp. p. 4267; Gaz. vol. 175; p. 732.
Woodhull, Frederick W., assignor of one-third to L. H. Stetson, Philadelphia, Pa., and one-third to W. H. Carson, Mount Ephraim, N. J. Window-cleaning device. No. 1,018,148; Feb. 20; Sp. p. 4270; Gaz. vol. 175; p. 733.
Woodland, Frank O., Worcester, Mass. Cigar-banding machine. No. 1,018,091; Feb. 20; Sp. p. 4140; Gaz. vol. 175; p. 713.
Woodland, Frank O., Worcester, Mass. Labeling-machine. No. 1,023,911; Apr. 23; Sp. p. 4594; Gaz. vol. 177; p. 818.
Woodland, Frank O., Worcester, Mass. Labeling-machine. No. 1,027,959; May 28; Sp. p. 6292; Gaz. vol. 178; p. 1081.
Woodland, Frank O., Worcester, Mass. Wheel for motor-vehicles. No. 1,031,763; July 9; Gaz. vol. 180; p. 360.
Woodland, Frank O., Worcester, Mass. Label-affixing mechanism. No. 1,045,241; Nov. 26; Gaz. vol. 184; p. 855.
Woodland, Frank O., Worcester, Mass. Picker for labeling-machines. No. 1,048,781; Dec. 31; Gaz. vol. 185; p. 1168.
Woodley, Alexander W., Blalock, Ala. Combination clinker-bar and fire-rake. No. 1,036,401; Aug. 20; Gaz. vol. 181; p. 750.
Woodley, William T. (See Henry, Beulah L., assignor.)
Woodman, George A. (See Carscadin, Charles A., assignor.)
Woodman, George A., assignor to Kirby Equipment Company, Chicago, Ill. Journal-box. No. 1,015,529; Jan. 23; Sp. p. 5381; Gaz. vol. 174; p. 922.
Woodman, George A., assignor to Kirby Equipment Company, Chicago, Ill. Journal-box. No. 1,015,607; Jan. 23; Sp. p. 5552; Gaz. vol. 174; p. 951.
Woodman, John J., assignor of one-half to C. Backus, Springfield, and one-half to F. L. Walker, Dayton, Ohio. Clamp and gage. No. 1,016,594; Feb. 6; Sp. p. 831; Gaz. vol. 175; p. 124.
Woodring, James H., Corry, Pa. Shock-absorber. No. 1,022,015; Apr. 2; Sp. p. 566; Gaz. vol. 177; p. 89.
Woodruff, Charles T., Urbana, Ohio. Floor-scraping machine. No. 1,021,497; Mar. 26; Sp. p. 5318; Gaz. vol. 176; p. 958.
Woodruff, George W. (See Taylor and Woodruff.)
Woodruff, Oliver D., Southington, Conn. Dough mixer and kneader. No. 1,027,960; May 28; Sp. p. 6298; Gaz. vol. 178; p. 1082.
Woodruff, Willard S., New York, N. Y. Annunciator or indicator. No. 1,026,779; May 21; Sp. p. 3719; Gaz. vol. 178; p. 644.
Woodruff, William W., Canton, Miss. Sanitary mouthpiece. No. 1,019,288; Mar. 5; Sp. p. 629; Gaz. vol. 176; p. 98.
Woodruff, Willis B., Cadiz, Ky. Churn. No. 1,026,970; May 21; Sp. p. 4169; Gaz. vol. 178; p. 711.
Woods, Briah T., Sr., Sheldon, Iowa. Tool or instrument for ritualistic purposes. No. 1,022,219; Apr. 2; Sp. p. 987; Gaz. vol. 177; p. 159.
Woods, Charles E. (See Wren, Charles F., assignor.)

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Woods, Clifford A., Plankinton, S. D. Automatic measuring device. No. 1,018,598; Feb. 27; Sp. p. 5291; Gaz. vol. 175; p. 918.
Woods, David B., *et al.* (See Tatum, Franklin M., assignor.)
Woods, Edwin S. (See Weigel, Arnold A., assignor.)
Woods, Edwin S., Chicago, Ill. Center-bearing for railway-cars. No. 1,016,595; Feb. 6; Sp. p. 834; Gaz. vol. 175; p. 125.
Woods, Edwin S., Chicago, Ill. Antifriction-bearing. No. 1,016,596; Feb. 6; Sp. p. 838; Gaz. vol. 175; p. 125.
Woods, Frank N., Flint, Mich. Electric-wire-feeding apparatus and reel therefor. No. 1,018,599; Feb. 27; Sp. p. 5293; Gaz. vol. 175; p. 919.
Woods, George E., assignor of one-half to H. S. Jacobson, Pittsburgh, Pa. Guard-rail and rail-joint. No. 1,039,003; Sept. 17; Gaz. vol. 182; p. 687.
Woods-Gilbert Rail Planer Company Limited. (See Little, John, assignor.)
Woods, Henry B., San Francisco, Cal. Shoe-lacing device. No. 1,022,808; Apr. 9; Sp. p. 2265; Gaz. vol. 177; p. 387.
Woods, James A., Jr., Ogden, Utah. Fruit-grader. No. 1,038,056; Sept. 10; Gaz. vol. 182; p. 328.
Woods, Leonard G., Pittsburgh, Pa. Journal-box. No. 1,019,109; Mar. 5; Sp. p. 221; Gaz. vol. 176; p. 35.
Woods, Leonard G., Pittsburgh, Pa. Truck-frame and journal-box. No. 1,047,362; Dec. 17; Gaz. vol. 185; p. 615.
Woods, Michael, Carlton, and T. J. Gilbert, Brunswick, Victoria, Australia. Machine for dressing rails. No. 1,027,366; May 21; Sp. p. 5024; Gaz. vol. 178; p. 846.
Woods, Michael, Carlton, and T. J. Gilbert, Brunswick, Victoria, Australia. Machine for dressing rails. No. 1,027,367; May 21; Sp. p. 5026; Gaz. vol. 178; p. 847.
Woods, Michael, Carlton, and T. J. Gilbert, Brunswick, Victoria, Australia. Machine for dressing rails. No. 1,032,721; July 16; Gaz. vol. 180; p. 731.
Woods, Michael, Carlton, and T. J. Gilbert, Brunswick, Victoria, Australia. Machine for dressing rails. No. 1,032,722; July 16; Gaz. vol. 180; p. 731.
Woods, Michael, Carlton, and T. J. Gilbert, Brunswick, Victoria, Australia. Rail-dressing machine. No. 1,040,833; Oct. 8; Gaz. vol. 183; p. 425.
Woods, Norman E., Richmond, Va. Drill-socket. No. 1,019,110; Mar. 5; Sp. p. 223; Gaz. vol. 176; p. 36.
Woods, Pinkney P., Hot Springs, Ark. Automatic elastic check-valve for pneumatic tires. No. 1,041,216; Oct. 15; Gaz. vol. 183; p. 587.
Woods-Sherwood Company. (See Comtois, Alfred L., assignor.)
Woods, Thomas B., and C. E. Williams, Headland, Ala. Row-marker. No. 1,025,040; Apr. 30; Sp. p. 7071; Gaz. vol. 177; p. 1243.
Woods, William B., Baltimore, Md. Nut-lock. No. 1,028,806; June 4; Sp. p. 1584; Gaz. vol. 179; p. 247.
Woods, William J., assignor to Corning Glass Works, Corning, N. Y. Mold for forming glass articles. No. 1,028,413; June 4; Sp. p. 769; Gaz. vol. 179; p. 116.
Woodson, Robert E., St. Louis, Mo. Nut-lock. No. 1,026,138; May 14; Sp. p. 2312; Gaz. vol. 178; p. 390.
Woodstock, Henry C., assignor to Hammer & Co., Branford, Conn. Vise. No. 1,049,024; Dec. 31; Gaz. vol. 185; p. 1252.
Woodward, Abner, near Marshallton, Del. Self-registering measure. No. 1,020,171; Mar. 12; Sp. p. 2484; Gaz. vol. 176; p. 423.
Woodward, Edward M., Worcester, Mass. Device for transmitting power. No. 1,016,535; Feb. 6; Sp. p. 703; Gaz. vol. 175; p. 105.
Woodward, Erastus, Somerville, Mass., assignor, by mesne assignments, to United Shoe Machinery Company, Paterson, N. J. Heel-attaching machine. No. 1,019,398; Mar. 5; Sp. p. 920; Gaz. vol. 176; p. 135.
Woodward, Erastus, Somerville, Mass., assignor, by mesne assignments, to United Shoe Machinery Company, Paterson, N. J. Sole laying and leveling jack. No. 1,048,627; Dec. 31; Gaz. vol. 185; p. 1113.
Woodward, Frederick S., New York, N. Y., assignor to Westinghouse Electric and Manufacturing Company. Curve-drawing machine. No. 1,031,034; July 2; Gaz. vol. 180; p. 65.
Woodward, Horace L., Washington, D. C., assignor to The Monarch Typewriter Company, Syracuse, N. Y. Typewriting machine. No. 1,024,759; Apr. 30; Sp. p. 6507; Gaz. vol. 177; p. 1146.
Woodward, Irving C., Chicago, Ill. Pin-guard. No. 1,044,963; Nov. 19; Gaz. vol. 184; p. 728.
Woodward, John, Leetonia, Ohio. Rivet-calking tool. No. 1,035,670; Aug. 13; Gaz. vol. 181; p. 459.
Woodward, Oscar, Montclair, N. J., assignor to Remington Typewriter Company, Ilion, N. Y. Type-writing machine. No. 1,016,056; Jan. 30; Sp. p. 6512; Gaz. vol. 174; p. 1133.
Woodward, Oscar, Montclair, assignor, by mesne assignments, to Union Typewriter Company, Jersey City, N. J. Type-writing machine. No. 1,021,395; Mar. 26; Sp. p. 5097; Gaz. vol. 176; p. 923.
Woodward, Oscar, Montclair, assignor to Union Typewriter Company, Jersey City, N. J. Type-writing machine No. 1,041,217; Oct. 15; Gaz. vol. 183; p. 588.
Woodward, Roy J., Fresno, Cal. Bolster for vehicles. No. 1,022,913; Apr. 9; Sp. p. 2478; Gaz. vol. 177; p. 422.
Woodward, Russel G., Waukegan, assignor to Union Special Machine Company, Chicago, Ill. Cover-plate for sewing machines. No. 1,034,944; Aug. 6; Gaz. vol. 181; p. 182.
Woodward & Tiernan Printing Company. (See Hunziker, Adolph A., assignor.)
Woodward, Virgil R., *et al.* (See Edenfeldt, Carl, assignor.)
Woodward, W. H. (See Morrison, Thomas, assignor.)
Woodward, William C. (See Hutchins, Arthur W., assignor.)
Woodward, William H. (See Sweningson and Woodward.)
Woodworth, Clara E., Detroit, Mich. Corset. No. 1,022,116; Apr. 2; Sp. p. 770; Gaz. vol. 177; p. 123.
Woodworth, Edred M., Lacolle, Quebec, Canada. Time-exposure meter. No. 1,032,260; July 9; Gaz. vol. 180; p. 528.
Woodworth, Elmer E., Richmond, Va. Curtain-fixture. No. 1,031,898; July 9; Gaz. vol. 180; p. 407.
Woodworth, Joseph V., Brooklyn, N. Y. Flier. No. 1,047,601; Dec. 17; Gaz. vol. 185; p. 699.
Woodworth, Lyman, San Francisco, Cal. Internal-combustion engine. No. 1,032,171; July 9; Gaz. vol. 180; p. 498.
Woodworth, Margaret J., Elba, Nebr. Cooking utensil. No. 1,013,253; Jan. 2; Sp. p. 358; Gaz. vol. 174; p. 57.
Woodworth, Robert B., Pittsburgh, Pa. Wheel construction. No. 1,020,069; Mar. 12; Sp. p. 2261; Gaz. vol. 176; p. 389.
Woodworth, Rose S., Cornish, Okla. Baking-pan. No. 1,029,483; June 11; Sp. p. 3071; Gaz. vol. 179; p. 515.
Woolen, Alfred, Grove, N. D. Seal-lock. No. 1,044,964; Nov. 19; Gaz. vol. 184; p. 728.
Woolen, Alfred, assignor to himself and F. O. Hellstrom, Grove, and M. Hiltner, Bismarck, N. D. Seal-lock. No. 1,028,834; June 4; Sp. p. 1646; Gaz. vol. 179; p. 257.
Wooley, James L., Shreveport, La. Automatic railway-switch. No. 1,016,867; Feb. 6; Sp. p. 1401; Gaz. vol. 175; p. 217.
Woolfenden, John J., Detroit, Mich. Advertising device. No. 1,034,182; July 30; Gaz. vol. 180; p. 1288.
Woolhiser, Jay H., Elmhurst, N. Y. Adjustable clothes-line support. No. 1,048,780; Dec. 31; Gaz. vol. 185; p. 1168.
Woolley, Dale A. (See Martini, Henry, assignor.)
Woolley, Edward, Woonsocket, R. I. Thread-clearing device. No. 1,040,087; Oct. 1; Gaz. vol. 183; p. 139.
Woolsey, Charles A., Minneapolis, Minn. Folding box. No. 1,043,995; Nov. 12; Gaz. vol. 184; p. 365.
Woolsey, Harry J., assignor of one-half to G. E. Schuberg, Jackson, Mich. Trolley-head. No. 1,020,172; Mar. 12; Sp. p. 2485; Gaz. vol. 176; p. 423.
Woolsey, Richard, Portland, Oreg. Lock for doors, &c. No. 1,048,628; Dec. 31; Gaz. vol. 185; p. 1114.
Woolslare, Harry A., assignor of one-half to G. B. Henderson, Pittsburgh, Pa. Safety watch-pocket. No. 1,021,033; Mar. 26; Sp. p. 4305; Gaz. vol. 176; p. 800.
Woolslare, James A., Pittsburgh, Pa. Envelop. No. 1,020,469; Mar. 19; Sp. p. 3093; Gaz. vol. 176; p. 559.
Woonsocket Napping Machinery Co. (See Praray and Greene, assignors.)
Wooster, Philip L., Yonkers, N. Y., assignor of one-fourth to Duryea Manufacturing Company and three-eighths to B. L. Duryea, Jersey City, N. J. Portable conveyer. No. 1,031,501; July 2; Gaz. vol. 180; p. 227.
Worcester, Albert, New York, N. Y. Piecing-machine for paper-box blanks. No. 1,041,554; Oct. 15; Gaz. vol. 183; p. 699.
Worcester Novelty Company. (See Hibbard, Herbert O., assignor.)
Worcester Novelty Company. (See Nevels, Anthony L., assignor.)
Worden, Edward M. (See Corbett, James H., assignor.)
Worden, Euclid P. (See Prescott and Worden.)
Worden, James H., *et al.* (See Sanford, Melvin E., assignor.)
Wordingham, George, Milwaukee, Wis. Shirt-envelop. No. 1,024,813; Apr. 30; Sp. p. 6620; Gaz. vol. 177; p. 1165.
Wordingham, William G., assignor to Wordy Self Starter Co., Chicago, Ill. Automatic starter and lighter for automobiles. No. 1,031,308; July 2; Gaz. vol. 180; p. 162.
Wordy Self Starter Co. (See Wordingham, William G., assignor.)
Work, Jesse G., assignor of one-half to B. S. Young, Sharon, Pa. Wall-papering device. No. 1,027,228; May 21; Sp. p. 4749; Gaz. vol. 178; p. 799.
Work, Samuel M., Indiana, Pa. Fruit-picker. No. 1,018,287; Feb. 20; Sp. p. 4546; Gaz. vol. 175; p. 780.
Workman Manufacturing Company. (See Bunce, Albert L., assignor.)
Workman Manufacturing Company. (See Halpin, Thomas P., assignor.)
Workman, Walter C., Loudonville, Ohio. Splice-bar. No. 1,038,471; Sept. 10; Gaz. vol. 182; p. 470.
World Manufacturing & Specialty Co., The. (See Lunde and Cordell, assignors.)
Worley, Webster. (See Londress and Worley.)
Wormser, Alfred, Paris, France. Bobbin. No. 1,030,219; June 18; Sp. p. 4677; Gaz. vol. 179; p. 804.

Alphabetical list of patentees—Continued.

Wormworth, Leslie, assignor of one-half to J. E. Avery, Goodlands, Manitoba, Canada. Combined mop holder and wringer. No. 1,019,577; Mar. 5; Sp. p. 1281; Gaz. vol. 176; p. 192.
Worrall, George H., Kirkwood, assignor to National Lead Company, St. Louis, Mo. Rotary screen. No. 1,041,935; Oct. 22; Gaz. vol. 183; p. 867.
Worrest, Alfred H., Lancaster, Pa. Single-trigger mechanism for double-barrel guns. No. 1,013,254; Jan. 2; Sp. p. 359; Gaz. vol. 174; p. 57.
Worrest. Alfred H., Lancaster, Pa. Counterweighted single trigger for double-barrel guns. No. 1,013,255; Jan. 2; Sp. p. 362; Gaz. vol. 174; p. 58.
Worrest, Alfred H., Lancaster, Pa. Firearm. No. 1,029,781; June 18; Sp. p. 3716; Gaz. vol. 179; p. 654.
Worrest, Alfred H., Lancaster, Pa. Single-trigger mechanism for double-barrel guns. No. 1,029,782; June 18; Sp. p. 3719; Gaz. vol. 179; p. 655.
Worrill, Ida. Boston, Ga. Purifying butter. No. 1,045,926; Dec. 3; Gaz. vol. 185; p. 45.
Worsley, Otto G., Bangor, Mich. Vehicle-wheel. No. 1,020,338; Mar. 12; Sp. p. 2808; Gaz. vol. 176; p. 476.
Worswick, James E., Montgomery, Ala. Brake-shoe. No. 1,046,360; Dec. 3; Gaz. vol. 185; p. 196.
Worth, Charles C. (See Freeman and Worth.)
Worth, Mason G., New York, N. Y. Cranking device for internal-combustion engines. No. 1,024,241; Apr. 23; Sp. p. 5337; Gaz. vol. 177; p. 935.
Worth, Mason G., assignor to C. S. Davis, New York, N. Y. Washer-making machine. No. 1,015,752; Jan. 23; Sp. p. 5862; Gaz. vol. 174; p. 999.
Worth, Robert J., Stockton-on-Tees, England. Winding-engine for collieries or like purposes. No. 1,029,410; June 11; Sp. p. 2929; Gaz. vol. 179; p. 490.
Wortham, Elliott S., Chicago, Ill. Concrete pipe. No. 1,014,735; Jan. 16; Sp. p. 3667; Gaz. vol. 174; p. 626.
Worthington, Benjamin, Mozart, Pa. Sanitary appliance. No. 1,017,940; Feb. 20; Sp. p. 3801; Gaz. vol. 175; p. 660.
Worthington, Bruce, Winchester, Va., assignor to Worthington Cotton Harvester Company. Cotton-picker. No. 1,020,867; Mar. 19; Sp. p. 3972; Gaz. vol. 176; p. 692.
Worthington, Charles C., Dunnfield, N. J. Boiler-regulator. No. 1,026,190; May 14; Sp. p. 2421; Gaz. vol. 178; p. 407.
Worthington, Charles C., Dunnfield, N. J. Feeder for steam boilers or generators. No. 1,026,191; May 14; Sp. p. 2426; Gaz. vol. 178; p. 408.
Worthington, Charles C., Dunnfield, N. J. Feeder for steam boilers and generators. No. 1,026,192; May 14; Sp. p. 2433; Gaz. vol. 178; p. 408.
Worthington, Charles C., Dunnfield, N. J. Steam-generator. No. 1,040,481; Oct. 8; Gaz. vol. 183; p. 302.
Worthington, Charles W., Rushville, Ill. Adjustable-scale stock-rack. No. 1,047,725; Dec. 17; Gaz. vol. 185; p. 742.
Worthington Company, The. (See Worthington, George C., assignor.)
Worthington Cotton Harvester Company. (See Worthington, Bruce, assignor.)
Worthington, Edgar, Hagerstown, Md. Tree-prop. No. 1,021,650; Mar. 26; Sp. p. 5608; Gaz. vol. 176; p. 1008.
Worthington, Edwin H., assignor to A. E. Grant, Troy, N. Y. Fold-collar-shaping machine. No. 1,016,312; Feb. 6; Sp. p. 170; Gaz. vol. 175; p. 26.
Worthington, George C., assignor to The Worthington Company, Elyria, Ohio. Propelling and brake mechanism for polycycles. No. 1,041,936; Oct. 22; Gaz. vol. 183; p. 868.
Worthington, John H., Staunton, Va. Wire-measuring machine. No. 1,043,494; Nov. 5; Gaz. vol. 184; p. 161.
Worthington, W. B. (See Whitehead, William J., assignor.)
Woruda, Hans, Vienna, Austria-Hungary. Rail-joint. No. 1,013,256; Jan. 2; Sp. p. 364; Gaz. vol. 174; p. 58.
Wotherspoon, William A., Los Angeles, Cal., assignor to The Automatic Directory Company. Mechanical directory and advertising device. No. 1,042,519; Oct. 29; Gaz. vol. 183; p. 1091.
Wouters, Alfred H., Norwood, Ohio, assignor to Allis-Chalmers Company and The Bullock Electric Manufacturing Company. Winding-machine. No. 1,028,983; June 11; Sp. p. 1988; Gaz. vol. 179; p. 343.
Wratten, Samuel M., Washington, Ind. Brake mechanism. No. 1,024,385; Apr. 23; Sp. p. 5583; Gaz. vol. 177; p. 979.
Wray, Alexander G. and W. J., Philadelphia, Pa. Self-binding globe and fixture. No. 1,048,926; Dec. 31; Gaz. vol. 185; p. 1218.
Wray, Charles F., assignor to National Brass Mfg. Co., Rochester, N. Y. Faucet. No. 1,046,531; Dec. 10; Gaz. vol. 185; p. 295.
Wray, Edward H., Philadelphia, and L. M. Pyle, Bryn Mawr, Pa., assignors to Niles-Bement-Pond Company, Jersey City, N. J. Hammer-press. No. 1,044,617; Nov. 19; Gaz. vol. 184; p. 609.
Wray, William J. (See Wray, Alexander G. and W. J.)
Wreford, William B., Detroit, Mich. Lever-locking device. No. 1,025,180; May 7; Sp. p. 156; Gaz. vol. 178; p. 26.
Wren, Charles F., Prescott, Ariz., assignor, by mesne assignments, to C. E. Woods, Liberal, Kans. Spring-tire. No. 1,039,469; Sept. 24; Gaz. vol. 182; p. 864.
Wrenn, John L., Washington, D. C. Alternating-current program system. No. 1,026,290; May 14; Sp. p. 2643; Gaz. vol. 178; p. 442.
Wriedt, George E., deceased, New York, N. Y.; W. A. Kruger, executor. Packing. No. 1,045,088; Nov. 19; Gaz. vol. 184; p. 772.
Wright, Allen C., Berkeley, Cal. Apparatus for separating and collecting particles of one substance suspended in another substance. No. 1,034,668; Aug. 6; Gaz. vol. 181; p. 88.
Wright, Arthur, New York, N. Y. Safety-pin. No. 1,019,578; Mar. 5; Sp. p. 1282; Gaz. vol. 176; p. 192.
Wright, Arthur, New York, N. Y. Safety-pin. (Reissue.) No. 13,415; May 7; Sp. p. 1897; Gaz. vol. 178; p. 292.
Wright, Arthur A., *et al.* (See Arundel, Clarence E., assignor.)
Wright, Arthur C., assignor to The Hopkins & Allen Arms Company, Norwich, Conn. Barrel-lock. No. 1,017,487; Feb. 13; Sp. p. 2783; Gaz. vol. 175; p. 469.
Wright, Benjamin H., London, England, assignor to The Alvey-Ferguson Company, Louisville, Ky. Conveyer. No. 1,017,941; Feb. 20; Sp. p. 3802; Gaz. vol. 175; p. 660.
Wright, Bert R., Poughkeepsie, N. Y., assignor to The De Laval Separator Company. Centrifugal clarifier and filter. No. 1,032,641; July 16; Gaz. vol. 180; p. 703.
Wright, Charles, Youngwood, Pa. Faucet. No. 1,024,961; Apr. 30; Sp. p. 6923; Gaz. vol. 177; p. 1217.
Wright, Charles, Youngwood, Pa. Valve. No. 1,035,401; Aug. 13; Gaz. vol. 181; p. 369.
Wright, Charles J., and B. Bell, Kelowna, British Columbia, Canada. Boiler-tube scraper. No. 1,040,088; Oct. 1; Gaz. vol. 183; p. 139.
Wright, Charles O., Bluefield, W. Va. Shipping-case for flour-mill rolls, &c. No. 1,032,461; July 16; Gaz. vol. 180; p. 641.
Wright, Chauncey M., Philadelphia, Pa. Wind-shield for vehicles. No. 1,042,305; Oct. 22; Gaz. vol. 183; p. 988.
Wright, Clarence E., Apalachicola, Fla. Coupling. No. 1,027,579; May 28; Sp. p. 5470; Gaz. vol. 178; p. 957.
Wright, Clarence E., assignor of one-half to E. W. Klapheke, Louisville, Ky. Mechanical movement. No. 1,031,764; July 9; Gaz. vol. 180; p. 361.
Wright, Edward B., Atlanta, Ga. Roll sample-case. No. 1,049,025; Dec. 31; Gaz. vol. 185; p. 1253.
Wright, Edward E., *et al.* (See Simon, Henry, assignor.)
Wright, Elmo L., and T. M. Biossat, Jr., La Fayette, La. Differential gearing. No. 1,032,261; July 9; Gaz. vol. 180; p. 529.
Wright, Francis M., *et al.*, trustees. (See Converse, Newton B., assignor.)
Wright, Francis M., San Francisco, Cal., assignor, by mesne assignments, to Empire Voting Machine Company, Jamestown, N. Y. Interlocking mechanism for party-column-voting machines. No. 1,032,526; July 16; Gaz. vol. 180; p. 662.
Wright, Fred. (See Wright, Robert J. and F.)
Wright, Frederic W., Yonkers, N. Y. Projecting-machine for moving pictures. No. 1,024,661; Apr. 30; Sp. p. 6303; Gaz. vol. 177; p. 1111.
Wright, George, assignor to H. J. Wright, Auburn, N. Y. Spark-plug. No. 1,020,006; Mar. 12; Sp. p. 2132; Gaz. vol. 176; p. 367.
Wright, George E., Aberdeen, Md. Apparatus for washing and scalding vegetables. No. 1,019,111; Mar. 5; Sp. p. 224; Gaz. vol. 176; p. 36.
Wright, George H., assignor of one-half to G. J. Partington, Halifax, Nova Scotia, Canada. Rail-fastening. No. 1,044,430; Nov. 12; Gaz. vol. 184; p. 513.
Wright, George M., assignor to Wright Wire Company, Worcester, Mass. Clamp. No. 1,028,651; June 4; Sp. p. 1268; Gaz. vol. 179; p. 195.
Wright, George W., Akron, Ohio. Spike-holder. No. 1,038,704; Sept. 17; Gaz. vol. 182; p. 585.
Wright, Gilbert. (See Barringer and Wright.)
Wright, Gilbert, Schenectady, N. Y., assignor to General Electric Company. Inclosed fuse. No. 1,037,397; Sept. 3; Gaz. vol. 182; p. 73.
Wright, Harriet J. (See Wright, George, assignor.)
Wright, Heaton, trustee. (See Blakeley, Robert T., assignor.)
Wright, Ira O., *et al.* (See Vogt, Jesse S., assignor.)
Wright, Irving C., Dorchester, and D. P. Cummings, Newton, Mass. Racket case and press. No. 1,027,786; May 28; Sp. p. 5877; Gaz. vol. 178; p. 1022.
Wright, Jacob P., Barberton, Ohio, assignor to The Diamond Match Company, Chicago, Ill. Box-filling machine. No. 1,014,356; Jan. 9; Sp. p. 2832; Gaz. vol. 174; p. 468.
Wright, Jacob P., Barberton, Ohio, assignor to The Diamond Match Company, Chicago, Ill. Match-machine. No. 1,048,629; Dec. 31; Gaz. vol. 185; p. 1114.
Wright, Jacob P., Akron, Ohio, assignor to The Diamond Match Company, New York, N. Y. Machine for forming box-shucks. No. 1,016,465; Feb. 6; Sp. p. 521; Gaz. vol. 175; p. 80.
Wright, James, Hamilton, Ontario, Canada. Lantern. No. 1,031,309; July 2; Gaz. vol. 180; p. 163.

Alphabetical list of patentees—Continued.

Wright, James C., Kansas City, Mo. Automatic air-coupling. No. 1,048,120; Dec. 24; Gaz. vol. 185; p. 904.
Wright, James G. (See Wylie and Wright.)
Wright, James H., Columbus, La. Plow. No. 1,017,942; Feb. 20; Sp. p. 3808; Gaz. vol. 175; p. 661.
Wright, James K., New York, N. Y. Automatic engine-stop. No. 1,020,940; Mar. 19; Sp. p. 4095; Gaz. vol. 176; p. 716.
Wright, James R., Trenton, Mo. Resilient wheel. No. 1,028,172; June 4; Sp. p. 265; Gaz. vol. 179; p. 33.
Wright, James R., Sacramento, Cal. Centrifugal sprayer. No. 1,045,242; Nov. 26; Gaz. vol. 184; p. 855.
Wright, John C., Caribou, Me., assignor of one-third to E. G. Siggers, Washington, D. C. Blank-severing mechanism. No. 1,043,996; Nov. 12; Gaz. vol. 184; p. 366.
Wright, John M., Brainard, Nebr. Draft-equalizing device. No. 1,033,365; July 23; Gaz. vol. 180; p. 986.
Wright, John M. W. (See Bright and Wright.)
Wright, John R., *et al.* (See Mabry, Davis L., assignor.)
Wright, John R., assignor to Wright Rake and Stacker Company, Wheeling, Mo. Swinging stacker. No. 1,045,765; Nov. 26; Gaz. vol. 184; p. 1039.
Wright, John W., Philadelphia, Pa., assignor to American Telephone and Telegraph Company, Boston, Mass. Tool for bending rings. No. 1,020,244; Mar. 12; Sp. p. 2640; Gaz. vol. 176; p. 448.
Wright, Joseph, and G. F. Krick, Pittsburgh, Pa.; said Wright assignor to said Krick. Feed-bag support. No. 1,018,225; Feb. 20; Sp. p. 4421; Gaz. vol. 175; p. 759.
Wright, Joseph L., Washington, D. C., assignor, by mesne assignments, to The North Electric Company, Cleveland, Ohio. Telephone-exchange system. No. 1,027,392; May 21; Sp. p. 5081; Gaz. vol. 178; p. 855.
Wright, Lawson W. (See Judge and Wright.)
Wright, Louis W., assignor to The W. & E. T. Fitch Co., New Haven, Conn. Buckle. No. 1,030,632; June 25; Sp. p. 5794; Gaz. vol. 179; p. 993.
Wright, Louis W., assignor to The W. & E. T. Fitch Co., New Haven, Conn. Buckle. No. 1,038,256; Sept. 10; Gaz. vol. 182; p. 395.
Wright, Marion F. (See Gray and Wright.)
Wright, Morris S., assignor to M. S. Wright Company, Worcester, Mass. Pneumatic cleaning-machine. No. 1,015,372; Jan. 23; Sp. p. 5042; Gaz. vol. 174; p. 870.
Wright, Morris S., assignor to Morris S. Wright Company, Worcester, Mass. Relief-valve for pneumatic cleaning systems. No. 1,026,193; May 14; Sp. p. 2439; Gaz. vol. 178; p. 409.
Wright, O. W., *et al.* (See Mabry, Davis L., assignor.)
Wright, R. H. (See Manley, Howard I., assignor.)
Wright Rake and Stacker Company. (See Wright, John R., assignor.)
Wright, Ransom C., deceased, Philadelphia, Pa., and F. E. Stebbins, Washington, D. C.; S. J. Wright, executrix, assignor to said F. E. Stebbins. Car-truck. No. 1,036,768; Aug. 27; Gaz. vol. 181; p. 905.
Wright, Richard H. (See Rose, Henry, assignor.)
Wright, Robert J., Jackson Heights, and F. Wright, Muskegon Heights, Mich. Display-rack. No. 1,035,932; Aug. 20; Gaz. vol. 181; p. 586.
Wright, Rohen U. (See Davis and Wright.)
Wright, Roland T., Meltonville, Iowa. Transmission-gearing. No. 1,048,257; Dec. 24; Gaz. vol. 185; p. 948.
Wright, Ross P., and F. W. Hubbard, assignors to Reed Manufacturing Company, Erie, Pa. Machine for forming screw-thread-cutting devices. No. 1,033,142; July 23; Gaz. vol. 180; p. 910.
Wright, Sam F., Anna, Tex. Putty-trowel. No. 1,019,399; Mar. 5; Sp. p. 928; Gaz. vol. 176; p. 135.
Wright, Sophie J., executrix. (See Wright and Stebbins.)
Wright, Stephen G., Oak Park, Ill. Roofing material. No. 1,022,764; Apr. 9; Sp. p. 2178; Gaz. vol. 177; p. 373.
Wright, Sylvanus D., Washington, D. C. Rotary pump. No. 1,031,765; July 9; Gaz. vol. 180; p. 361.
Wright, Thomas, Jersey City, N. J. Coal-wagon. No. 1,019,211; Mar. 5; Sp. p. 452; Gaz. vol. 176; p. 72.
Wright, Thomas, Jersey City, N. J. Side-delivery body. No. 1,019,875; Mar. 12; Sp. p. 1849; Gaz. vol. 176; p. 325.
Wright, Thomas, Jersey City, N. J. Side-delivery door for bodies. No. 1,019,876; Mar. 12; Sp. p. 1851; Gaz. vol. 176; p. 325.
Wright, Thomas, Jersey City, N. J. Side-dump body. No. 1,023,190; Apr. 16; Sp. p. 3115; Gaz. vol. 177; p. 557.
Wright, Walter, Coventry, England. Road-wheel of vehicles. No. 1,042,742; Oct. 29; Gaz. vol. 183; p. 1170.
Wright, Wilbur L., Washington, D. C. Capping-machine. No. 1,026,892; May 21; Sp. p. 3972; Gaz. vol. 178; p. 684.
Wright, Wilbur L., Washington, D. C., assignor to Ajax Manufacturing Company, Baltimore, Md. Closing-disk. No. 1,036,769; Aug. 27; Gaz. vol. 181; p. 906.
Wright, Wilfred L., Philadelphia, Pa. Trolley-pole. No. 1,036,402; Aug. 20; Gaz. vol. 181; p. 750.
Wright, William, Chicago, and H. F. Hall, Chicago Heights, Ill. Expansion-joint. No. 1,021,082; Mar. 26; Sp. p. 4399; Gaz. vol. 176; p. 816.
Wright, William J., Franklin, Pa. Making metallic packing. No. 1,018,149; Feb. 20; Sp. p. 4272; Gaz. vol. 175; p. 733.
Wright, William J., Franklin, Pa. Metallic packing. No. 1,018,349; Feb. 20; Sp. p. 4653; Gaz. vol. 175; p. 800.
Wright, William J., Franklin, Pa. Lubricating system for internal-combustion and other engines. No. 1,020,007; Mar. 12; Sp. p. 2133; Gaz. vol. 176; p. 367.
Wright, William J., Franklin, Pa. Explosive-engine. No. 1,023,606; Apr. 16; Sp. p. 3940; Gaz. vol. 177; p. 692.
Wright, William J., Franklin, Pa. Explosive-engine. No. 1,023,607; Apr. 16; Sp. p. 3944; Gaz. vol. 177; p. 692.
Wright, William J., Franklin, Pa. Lubricating device. No. 1,035,402; Aug. 13; Gaz. vol. 181; p. 370.
Wright, Wilson D. C. (See Smith, James M., assignor.)
Wright Wire Company. (See Klingler, George H. and W. H., assignors.)
Wright Wire Company. (See Wright, George M., assignor.)
Wrigley, Charles, Sidney, Ohio. Car-fender. No. 1,032,462; July 16; Gaz. vol. 180; p. 641.
Wrinkle, Noah, and R. G. Paddock, San Francisco, Cal. Obtaining carbonate of soda. No. 1,016,239; Jan. 30; Sp. p. 6869; Gaz. vol. 174; p. 1193.
Wrissenberg, Julius H. A., assignor to Gebrüder Bölken, Eisenbeton-Hohldecken-Patente "System Wrissenberg," Bremen, Germany. Ferroconcrete ribbed ceiling. No. 1,025,041; Apr. 30; Sp. p. 7072; Gaz. vol. 177; p. 1243.
Writerpress Company, The. (See Adamson, Charles E., assignor.)
Wuermli, Joseph, Cincinnati, Ohio. Trolley-shifting device. No. 1,032,796; July 16; Gaz. vol. 180; p. 756.
Wuest, Emil, Dübendorf, near Zürich, Switzerland. T-square with guide-head. No. 1,042,743; Oct. 29; Gaz. vol. 183; p. 1170.
Wuest, Philip, Jr., Woodbury, N. J., assignor to O. Blasius, Philadelphia, Pa. Tempo-controlling mechanism for piano-players. No. 1,037,098; Aug. 27; Gaz. vol. 181; p. 1016.
Wuest, Philip, Jr., Woodbury, N. J., assignor to O. Blasius, Philadelphia, Pa. Device for centering music-rolls in musical instruments. No. 1,041,218; Oct. 15; Gaz. vol. 183; p. 588.
Wuest, Philip, Jr., Woodbury, N. J., assignor to O. Blasius, Philadelphia, Pa. Valve mechanism for piano-players. No. 1,041,219; Oct. 15; Gaz. vol. 183; p. 588.
Wüffing, Johann A. von. (See Alsleben, Paul, assignor.)
Wuichet, William T. (See Altick, James W., assignor.)
Wulf, Charles A., Indianapolis, Ind. Distributer for automobile engine-starters. No. 1,048,021; Dec. 24; Gaz. vol. 185; p. 870.
Wulff, Jens, Erwin, S. D. Flying-machine. No. 1,032,976; July 16; Gaz. vol. 180; p. 815.
Wulff, William L., Little Valley, N. Y. Tweezer attachment for knives. No. 1,046,361; Dec. 3; Gaz. vol. 185; p. 196.
Wülfing, Dahl and Company. (See Ulrichs, Ernst, assignor.)
Wülfing, Firm of Johann A. (See Quade, Fritz, assignor.)
Wulkan, Heinrich, assignor to Dextrin Automat, Gesellschaft m. b. H., Vienna, Austria-Hungary. Process of separating the germ or germ and hull from corn and the product of such process. No. 1,045,490; Nov. 26; Gaz. vol. 184; p. 942.
Wunder, John, Minneapolis, Minn. Reinforced concrete construction. No. 1,036,049; Aug. 20; Gaz. vol. 181; p. 625.
Wunder, John, Minneapolis, Minn. Reinforced concrete construction. No. 1,036,050; Aug. 20; Gaz. vol. 181; p. 625.
Wurdack, William, St. Louis, Mo. Electric meter and panel-board cabinet. No. 1,041,398; Oct. 15; Gaz. vol. 183; p. 649.
Wurmb, Theodore H., and R. Baumann, assignors to National Clock & Electric Manufacturing Co., St. Louis, Mo. Electric valve-operating device. No. 1,022,914; Apr. 9; Sp. p. 2479; Gaz. vol. 177; p. 422.
Wurmb, Theodore H., and R. Baumann, assignors to National Clock & Electric Manufacturing Co., St. Louis, Mo. Machine for winding wire on thermostatic springs. No. 1,028,519; June 4; Sp. p. 1001; Gaz. vol. 179; p. 152.
Wurmb, Theodore H., and R. Baumann, assignors to National Clock & Electric Manufacturing Co., St. Louis, Mo. Secondary electric clock. No. 1,030,368; June 25; Sp. p. 5034; Gaz. vol. 179; p. 898.
Wurmser, Eugen, Strassburg, Germany. Apparatus for cleaning and polishing boots and shoes. No. 1,020,008; Mar. 12; Sp. p. 2136; Gaz. vol. 176; p. 368.
Wurst, Charles F., and W. Schaff, Hudson Heights, N. J. Hacksaw. No. 1,039,470; Sept. 24; Gaz. vol. 182; p. 864.
Wurst, Charles H., Quincy, Ill. Stove. No. 1,027,961; May 28; Sp. p. 6299; Gaz. vol. 178; p. 1082.
Wurst, Charles H., Quincy, Ill. Stove. No. 1,036,067; Aug. 6; Gaz. vol. 181; p. 221.
Wurtele, J. G. (See Brown, James H., assignor.)
Wurth, Albert F., Orange, assignor, by mesne assignments, to Thomas A. Edison, Incorporated, West Orange, N. J. Phonograph-record mold. No. 1,027,788; May 28; Sp. p. 5879; Gaz. vol. 178; p. 1023.

Alphabetical list of patentees—Continued.

Wurth, Charles N., Orange, assignor, by mesne assignments, to Thomas A. Edison, Incorporated, West Orange, N. J. Feeding mechanism for phonographs and other machines. No. 1,036,403; Aug. 20; Gaz. vol. 181; p. 751.
Wurts, Alexander J., Pittsburgh, assignor to The Union Switch & Signal Company, Swissvale, Pa. Lightning-arrester. No. 1,022,717; Apr. 9; Sp. p. 2079; Gaz. vol. 177; p. 357.
Wurts, Alexander J., Pittsburgh, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway signaling system. No. 1,046,703; Dec. 10; Gaz. vol. 185; p. 356.
Wurtz, Elmer A., Barberton, Ohio. Steam generator and regulator for turbines. No. 1,014,797; Jan. 16; Sp. p. 3802; Gaz. vol. 174; p. 646.
Wurzburg, Ludwig, San Francisco, Cal. Double-seaming and vacuumizing machine. No. 1,028,652; June 4; Sp. p. 1268; Gaz. vol. 179; p. 195.
Wyatt, Albert P., Beatrice, Nebr. Truck. No. 1,035,293; Aug. 13; Gaz. vol. 181; p. 330.
Wyatt Company, The. (See Wyatt, Henry J., assignor.)
Wyatt, Guy B. (See Hawthorne, Wyatt, and Warner.)
Wyatt, Henry J., assignor to The Wyatt Company, New York, N. Y. Mailing-wrapper. No. 1,030,633; June 25; Sp. p. 5795; Gaz. vol. 179; p. 993.
Wyatt, James E., Yantis, Tex. Culinary implement. No. 1,041,221; Oct. 15; Gaz. vol. 183; p. 589.
Wyatt, James H., and H. C. Campion, Jr., assignors to The Cutter Electrical and Manufacturing Company, Philadelphia, Pa. Outlet-box construction. No. 1,041,220; Oct. 15; Gaz. vol. 183; p. 588.
Wyatt, John H., assignor of one-fourth to W. Haley and one-fourth to C. Haley, Rocky Ford, Colo. Fruit-picker. No. 1,016,663; Feb. 6; Sp. p. 989; Gaz. vol. 175; p. 149.
Wyche, Daniel W., Marquez, Tex. Insulator-bracket. No. 1,041,937; Oct. 22; Gaz. vol. 183; p. 868.
Wyckoff, Ernest, Hightstown, N. J. Railway-tie. No. 1,024,545; Apr. 30; Sp. p. 6030; Gaz. vol. 177; p. 1071.
Wyckoff, Lynn B., Chicago, Ill., assignor to The Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 1,022,168; Apr. 2; Sp. p. 882; Gaz. vol. 177; p. 140.
Wyckoff, Lynn B., Chicago, Ill., assignor to The Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 1,047,476; Dec. 17; Gaz. vol. 185; p. 655.
Wyckoff, Seamans & Benedict. (See Briggs, Daniel, assignor.)
Wyckoff, Seamans & Benedict. (See Ellis, Albert H., assignor.)
Wyckoff, Seamans & Benedict. (See Shepard, Charles H., assignor.)
Wyckoff, Seamans & Benedict. (See Walker, Charles W., assignor.)
Wyckoff, Seamans & Benedict. (See Yaw, Clio B., assignor.)
Wyer, Samuel S., Columbus, Ohio, assignor, by mesne assignments, to The Jeffrey Manufacturing Company. Drill for rock, coal, and other material. No. 1,034,052; July 30; Gaz. vol. 180; p. 1245.
Wyer, Samuel S., Columbus, Ohio, assignor, by mesne assignments, to The Jeffrey Manufacturing Company. Gasolene rock-drill. No. 1,034,053; July 30; Gaz. vol. 180; p. 1245.
Wygant, Lewis B., assignor to Hartman Manufacturing Company, Vincennes, Ind. Disk-harrow gang-equalizer. No. 1,022,915; Apr. 9; Sp. p. 2482; Gaz. vol. 177; p. 423.
Wygodsky, Leon, New York, N. Y. Means for operating oil-engines. No. 1,015,115; Jan. 16; Sp. p. 4490; Gaz. vol. 174; p. 756.
Wylde, Edward, New York, N. Y., and C. Schenck, assignors to Elevator Supply & Repair Company, Chicago, Ill. Door-controlling device. No. 1,044,115; Nov. 12; Gaz. vol. 184; p. 405.
Wyler, Max. (See Levinstein and Wyler.)
Wylie, Alfred R., and J. G. Wright, Big Spring, Tex. Automobile-wheel. No. 1,018,467; Feb. 27; Sp. p. 4937; Gaz. vol. 175; p. 872.
Wylie, Alfred R., and J. G. Wright, Big Spring, Tex. Vehicle-wheel. No. 1,026,291; May 14; Sp. p. 2645; Gaz. vol. 178; p. 443.
Wylie, Alfred R., and J. G. Wright, Big Spring, Tex. Vehicle-wheel. No. 1,026,292; May 14; Sp. p. 2647; Gaz. vol. 178; p. 443.
Wylie, Alfred R., and J. G. Wright, Big Spring, Tex. Vehicle-wheel. No. 1,036,770; Aug. 27; Gaz. vol. 181; p. 906.
Wylie, Chester L., Valley City, N. D. Grain-separator. No. 1,013,257; Jan. 2; Sp. p. 365; Gaz. vol. 174; p. 58.
Wylie, John F., *et al.* (See Estes, Charles N., assignor.)
Wylie Manufacturing Company. (See Boardman, John R., assignor.)
Wylie, Samuel W., Jamestown, N. D. Phonographic recording and reproducing device. No. 1,029,249; June 11; Sp. p. 2557; Gaz. vol. 179; p. 433.
Wylie, Thomas B., Haysville, Pa. Apparatus for measuring volume of flowing water, &c. No. 1,025,227; May 7; Sp. p. 260; Gaz. vol. 178; p. 43.
Wylie, Thomas B., Osborne, Pa. Gas-burner. No. 1,037,398; Sept. 3; Gaz. vol. 182; p. 74.
Wyllie, William M. (See Harmer and Wyllie.)
Wyllys, Roselle. *et al.* (See Booth, James A., assignor.)
Wyman, Alton L., Minneapolis, Minn., assignor, by mesne assignments, to Emerson-Brantingham Company, Rockford, Ill. Connecting-rod. No. 1,043,495; Nov. 5; Gaz. vol. 184; p. 161.
Wyman, George R., assignor to C. S. Bird, East Walpole, Mass. Waterproof boot. No. 1,022,994; Apr. 9; Sp. p. 2642; Gaz. vol. 177; p. 451.
Wyman, Horace, Worcester, Mass. Photograph-film-developing device. No. 1,043,496; Nov. 5; Gaz. vol. 184; p. 162.
Wyman, Horace, Worcester, Mass., assignor to Crompton & Knowles Loom Works. Jacquard-card-punching machine. No. 1,022,573; Apr. 9; Sp. p. 1730; Gaz. vol. 177; p. 305.
Wyman, Horace, Worcester, Mass., assignor to Crompton & Knowles Loom Works. Shuttle-check. No. 1,029,961; June 18; Sp. p. 4137; Gaz. vol. 179; p. 716.
Wyman, Horace, Worcester, Mass., assignor to Crompton & Knowles Loom Works. Automatic weft-replenishing loom. No. 1,032,463; July 16; Gaz. vol. 180; p. 641.
Wyman, James S. (See Leighton, Frederick E., assignor.)
Wymore, Joseph, Seattle, Wash. Combined boat and airship. No. 1,023,404; Apr. 16; Sp. p. 3531; Gaz. vol. 177; p. 629.
Wynkoop, Brace R. (See Nordenhold and Wynkoop.)
Wynn, Thomas, *et al.* (See Webster, James M., assignor.)
Wynne, John H. (See Gow, Alexander M., assignor.)
Wynne, Robert S., Waxahachie, Tex. Harrow attachment for cultivators. No. 1,017,838; Feb. 20; Sp. p. 3552; Gaz. vol. 175; p. 624.
Wysong, Olmedo C., Greensboro, N. C. Belt sandpapering-machine. No. 1,013,980; Jan. 9; Sp. p. 1996; Gaz. vol. 174; p. 338.
Wyton, James W., New York, N. Y. Expansion pipe-joint. No. 1,013,258; Jan. 2; Sp. p. 367; Gaz. vol. 174; p. 59.
Y. & G. Electric Fuse & Engineering Company, The. (See Yates, Harry A., assignor.)
Yacoobian, Roupen K., Philadelphia, Pa. Water-mixer. No. 1,018,468; Feb. 27; Sp. p. 4938; Gaz. vol. 175; p. 873.
Yadu, Doichi, Sudamura, Japan. Automatic abacus. No. 1,029,655; June 18; Sp. p. 3430; Gaz. vol. 179; p. 610.
Yaffe, Samuel. (See Mayer and Yaffe.)
Yakligian, James, Fresno, Cal. Combination pocket knife and fork. No. 1,030,756; June 25; Sp. p. 6095; Gaz. vol. 179; p. 1036.
Yale & Towne Manufacturing Company, The. (See Augenbraun, Peter F., assignor.)
Yale & Towne Manufacturing Company, The. (See Crouch, Thomas E., assignor.)
Yale & Towne Manufacturing Company, The. (See Gilmartin, Michael W., assignor.)
Yale & Towne Manufacturing Company, The. (See Hunter, David E., assignor.)
Yale & Towne Manufacturing Company, The. (See Miller, Charles A., assignor.)
Yale & Towne Manufacturing Company, The. (See Moseley, William P. assignor.)
Yale & Towne Manufacturing Company, The. (See Nordenhold and Wynkoop, assignors.)
Yale & Towne Manufacturing Company, The. (See Peterson, Malcolm, assignor.)
Yale & Towne Manufacturing Company, The. (See Regan, Joseph C., assignor.)
Yale & Towne Manufacturing Company, The. (See Roehr, Louis, assignor.) (Reissue.)
Yale & Towne Manufacturing Company, The. (See Schechter, Joseph, assignor.)
Yale & Towne Manufacturing Company, The. (See Schoell, Reinhold, assignor.)
Yale & Towne Manufacturing Company, The. (See Taylor, Warren H., assignor.)
Yamamoto, Takejiro, assignor to Y. Hitaka, Tokyo, Japan. Interlocked netting. No. 1,026,544; May 14; Sp. p. 3186; Gaz. vol. 178; p. 527.
Yantis, Benjamin F., Hollis, Okla. Plumb-level. No. 1,038,705; Sept. 17; Gaz. vol. 182; p. 585.
Yarborough, Virgil T., Ludowici, Ga. Fireplace fender and screen. No. 1,044,330; Nov. 12; Gaz. vol. 184; p. 479.
Yarbrough, John E., Atlanta, Ga. Loom. No. 1,047,363; Dec. 17; Gaz. vol. 185; p. 615.
Yarbrough, John E., assignor of one-half to C. S. McMahan, Atlanta, Ga. Loom. No. 1,047,364; Dec. 17; Gaz. vol. 185; p. 616.
Yardley, William H., Sheffield, England. Apparatus for treating steam and other gaseous or liquid bodies. No. 1,027,962; May 28; Sp. p. 6302; Gaz. vol. 178; p. 1083.
Yarlott, William R., Montpelier, Ohio, and J. W. Hackman, Pawpaw, Ill. Lantern. No. 1,044,618; Nov. 19; Gaz. vol. 184; p. 609.
Yarrington, Samuel S., Wilmington, Del. Aeroplane. No. 1,037,704; Sept. 3; Gaz. vol. 182; p. 177.
Yarrow, Alfred F., Scotland, New Brunswick, Canada. Water-tube boiler. No. 1,038,812; Sept. 17; Gaz. vol. 182; p. 623.
Yassenoff, Isidor, assignor to The Swash Motor Washer Company, Columbus, Ohio. Motor. No. 1,046,136; Dec. 3; Gaz. vol. 185; p. 116.

Alphabetical list of patentees—Continued.

Yates, Charles A., New York, N. Y. Burner. No. 1,045,351; Nov. 26; Gaz. vol. 184; p. 892.
Yates, Charles J. (See Bailey, John W., assignor.)
Yates, Fred E., Minneapolis, Minn. Valve for gas-burners. No. 1,034,669; Aug. 6; Gaz. vol. 181; p. 88.
Yates, Gettis W., assignor of one-half to F. B. Wilder, Tampa, Fla. Spring-swingletree. No. 1,024,760; Apr. 30; Sp. p. 6510; Gaz. vol. 177; p. 1146.
Yates, Gideon D., Lisle, N. Y. Shock-absorber. No. 1,047,477; Dec. 17; Gaz. vol. 185; p. 655.
Yates, Harry A., New York, N. Y., assignor, by mesne assignments, to The Y. & G. Electric Fuse & Engineering Company. Safety-fuse. No. 1,028,173; June 4; Sp. p. 266; Gaz. vol. 179; p. 33.
Yates, Harry D., Washington, D. C. Meter. No. 1,046,244; Dec. 3; Gaz. vol. 185; p. 155.
Yates, James A., Alturas, Cal. Overshoe-retainer. No. 1,047,869; Dec. 17; Gaz. vol. 185; p. 792.
Yates Machine Company. (See West, Robert N., assignor.)
Yates, William, Upper Alton, Ill. Mat. No. 1,019,212; Mar. 5; Sp. p. 454; Gaz. vol. 176; p. 72.
Yauch, Christian, Detroit, Mich. Skylight. No. 1,035,509; Aug. 13; Gaz. vol. 181; p. 405.
Yaw, Clio B., Arlington, N. J., assignor to Remington Typewriter Company, Ilion, N. Y. Type-writing machine. No. 1,015,373; Jan. 23; Sp. p. 5045; Gaz. vol. 174; p. 870.
Yaw, Clio B., Arlington, N. J., assignor to Remington Typewriter Company, Ilion, N. Y. Type-writing machine. No. 1,016,057; Jan. 30; Sp. p. 6517; Gaz. vol. 174; p. 1133.
Yaw, Clio B., Arlington, assignor, by mesne assignments, to Union Typewriter Company, Jersey City, N. J. Type-writing machine. No. 1,034,554; Aug. 6; Gaz. vol. 181; p. 51.
Yaw, Clio B., New York, assignor to Wyckoff, Seamans & Benedict, Ilion, N. Y. Type-writing machine. No. 1,027,963; May 28; Sp. p. 6304; Gaz. vol. 178; p. 1083.
Yaw, Clio B., New York, assignor to Wyckoff, Seamans & Benedict, Ilion, N. Y. Type-writing machine. No. 1,036,947; Aug. 27; Gaz. vol. 181; p. 964.
Yaw, Clio B., New York, assignor to Wyckoff, Seamans & Benedict, Ilion, N. Y. Type-writing machine. No. 1,044,116; Nov. 12; Gaz. vol. 184; p. 406.
Yawger, William H., Montreal, Quebec, Canada, assignor to The Marion Steam Shovel Company, Marion, Ohio. Cable-stretcher for ballast-unloaders. No. 1,018,800; Feb. 27; Sp. p. 5714; Gaz. vol. 175; p. 987.
Yawman & Erbe Manufacturing Company. (See Ackerman, Frederick W., assignor.)
Yawman & Erbe Manufacturing Company. (See Wiesner, Moritz, assignor.)
Yawman & Erbe Manufacturing Company. (See Weiss, Albert T., assignor.)
Yawman & Erbe Manufacturing Company. (See Yawman, Philip H., assignor.)
Yawman, Philip H., assignor to Yawman & Erbe Manufacturing Company, Rochester, N. Y. Partition or guide for files. No. 1,013,633; Jan. 2; Sp. p. 1179; Gaz. vol. 174; p. 188.
Yawman, Philip H., assignor to Yawman & Erbe Manufacturing Company, Rochester, N. Y. Paper-file. No. 1,022,456; Apr. 9; Sp. p. 1496; Gaz. vol. 177; p. 267.
Yawman, Philip H., assignor to Yawman and Erbe Manufacturing Company, Rochester, N. Y. Calendar-pad holder. No. 1,034,670; Aug. 6; Gaz. vol. 181; p. 89.
Yaxley, Ernest E. (See Crook, Charles M., assignor.)
Yaxley, Ernest E., Chicago, Ill. System of electrical control. No. 1,019,112; Mar. 5; Sp. p. 225; Gaz. vol. 176; p. 36.
Yaxley, Ernest E., Chicago, Ill. Timing mechanism. No. 1,019,113; Mar. 5; Sp. p. 228; Gaz. vol. 176; p. 36.
Ybarra, Samuel, St. Louis, Mo. Explosive-engine. No. 1,015,116; Jan. 16; Sp. p. 4494; Gaz. vol. 174; p. 757.
Ybarra, Samuel, St. Louis, Mo. Explosive-engine. No. 1,046,704; Dec. 10; Gaz. vol. 185; p. 356.
Ybarrondo, Vincent C. de, Los Angeles, Cal. Airship. No. 1,022,117; Apr. 2; Sp. p. 772; Gaz. vol. 177; p. 123.
Ybarrondo, Vincent C. de, Los Angeles, Cal. Power-generator. No. 1,028,414; June 4; Sp. p. 771; Gaz. vol. 179; p. 117.
Yeager, Herbert W., assignor to The Enterprise Manufacturing Company of Pennsylvania, Philadelphia, Pa. Discharge apparatus for casting-machines. No. 1,015,374; Jan. 23; Sp. p. 5050; Gaz. vol. 174; p. 870.
Yeager, Peter E., Reading, Pa. Rail-fastener. No. 1,042,744; Oct. 29; Gaz. vol. 183; p. 1170.
Yeagle, Walter R., Eddington, Pa. Snap-hook. No. 1,025,666; May 7; Sp. p. 1249; Gaz. vol. 178; p. 193.
Yeakel, Abraham M., assignor of one-half to W. L. Yeakel, Perkasie, Pa. Clock. No. 1,037,705; Sept. 3; Gaz. vol. 182; p. 178.
Yeakel, Wilson L. (See Yeakel, Abraham M., assignor.)
Yeamans, Eugene, Collegeport, Tex. Automatic stabilizer for aeroplanes. No. 1,040,089; Oct. 1; Gaz. vol. 183; p. 140.
Yeates, Ernest G., Hamilton, Ontario, Canada. Wheel-lathe. No. 1,043,997; Nov. 12; Gaz. vol. 184; p. 366.
Yeatman, John A., assignor to United Iron Works, Oakland, Cal. Centrifugal pump. No. 1,023,776; Apr. 16; Sp. p. 4232; Gaz. vol. 177; p. 744.
Yeatts, Edward D., Sanger, Tex. Cultivator-standard. No. 1,031,607; July 2; Gaz. vol. 180; p. 263.
Yelf, Henry H., Portsmouth, England. Holder for erasers. No. 1,018,288; Feb. 20; Sp. p. 4548; Gaz. vol. 175; p. 780.
Yelf, Henry H., Southsea, England. Locking device for type-writing machines. No. 1,037,399; Sept. 3; Gaz. vol. 182; p. 74.
Yelf, Henry H., Southsea, England. Eraser-dust-collecting instrument. No. 1,043,282; Nov. 5; Gaz. vol. 184; p. 84.
Yelton, Albert E. (See Peoples and Yelton.)
Yenovkian, Sarkis S., Boston, Mass. Pasting-machine. No. 1,036,771; Aug. 27; Gaz. vol. 181; p. 906.
Yeo, William, Dunbar, Pa. Sand-washing apparatus. No. 1,020,868; Mar. 19; Sp. p. 3974; Gaz. vol. 176; p. 692.
Yeoell, William J., New York, N. Y. Producing printing-surfaces. No. 1,034,329; July 30; Gaz. vol. 180; p. 1340.
Yeoman, John L., Chehalis, Wash. Universal joint and four-wheel drive. No. 1,038,706; Sept. 17; Gaz. vol. 182; p. 585.
Yeomans, Wallace C., Pe Ell, Wash. Spark-arrester. No. 1,038,707; Sept. 17; Gaz. vol. 182; p. 586.
Yerbury, Charles W., Springfield, Ill. Rail-joint. No. 1,033,769; July 23; Gaz. vol. 180; p. 1116.
Yerger, George J. (See Laingor and Yerger.)
Yerger, Henry N., Philadelphia, Pa. Bookbinding. No. 1,021,908; Apr. 2; Sp. p. 328; Gaz. vol. 177; p. 54.
Yerkey, Marion O., Cowen, W. Va. Saw-setting tool. No. 1,045,491; Nov. 26; Gaz. vol. 184; p. 942.
Yetter, Clyde C., Bloomsburg, Pa. Combined cupboard and dumb-waiter. No. 1,027,229; May 21; Sp. p. 4750; Gaz. vol. 178; p. 799.
Yetts, Frank L., New York, N. Y. Pneumatic valve-action. No. 1,013,259; Jan. 2; Sp. p. 368; Gaz. vol. 174; p. 59.
Yingling, Frank B., Washington, D. C. Recoil-checking mechanism for ordnance. No. 1,043,890; Nov. 12; Gaz. vol. 184; p. 328.
Yingling, Otto A., Washington, D. C. Projectile. No. 1,027,964; May 28; Sp. p. 6310; Gaz. vol. 178; p. 1084.
Yingst, Allan H. (See Walton and Yingst.)
Yoakim, Louis E., Yuma, Ariz. Vehicle-reach. No. 1,036,051; Aug. 20; Gaz. vol. 181; p. 626.
Yoakum, John L., Fowler, Ind. Toy vehicle. No. 1,026,545; May 14; Sp. p. 3187; Gaz. vol. 178; p. 527.
Yoakum, William H., *et al.* (See Lawson, James R., assignor.)
Yoch, George, Freeland, Pa. Alarm. No. 1,035,510; Aug. 13; Gaz. vol. 181; p. 405.
Yochem, John W., Tiffin, Ohio. License-tag holder. No. 1,024,386; Apr. 23; Sp. p. 5584; Gaz. vol. 177; p. 980.
Yocum, Artemus W., Manheim, Pa. Railway-tie. No. 1,018,801; Feb. 27; Sp. p. 5715; Gaz. vol. 175; p. 987.
Yoder, Edward, Tulsa, Okla. Resilient hub for vehicle-wheels. No. 1,044,619; Nov. 19; Gaz. vol. 184; p. 609.
Yoeckel, Carl H., *et al.* (See Shoemaker, Alvin H., assignor.)
Yoggerst, Anthony J. and L. G., Springfield, Ill. Pipe-cleaner. No. 1,047,726; Dec. 17; Gaz. vol. 185; p. 742.
Yoggerst, Lawrence G. (See Yoggerst, Anthony J. and L. G.)
Yolland, Charles W. (See Thomas, Edward W., assignor.)
Yonkman, Nicholas. (See Buss and Yonkman.)
York, David A., North Grove, Ind., assignor of one-half to W. H. York, Ashley, Ind. Cushion-tire. No. 1,032,977; July 16; Gaz. vol. 180; p. 815.
York, David A., North Grove, Ind., and J. A. Tinker, Cleveland, assignors of one-third to A. W. Kraft, Painesville, Ohio. Enameling steel and the like. No. 1,017,360; Feb. 13; Sp. p. 2501; Gaz. vol. 175; p. 424.
York, Isaac E., Waterford, Ontario, Canada. Stocking-stretching device. No. 1,022,457; Apr. 9; Sp. p. 1498; Gaz. vol. 177; p. 268.
York, James E., New York, N. Y. Solidifying ingots. No. 1,035,933; Aug. 20; Gaz. vol. 181; p. 586.
York, James E., New York, N. Y., assignor to York Rolling Process Company. Making shapes for columns and the like. No. 1,037,099; Aug. 27; Gaz. vol. 181; p. 1017.
York Rolling Process Company. (See York, James E., assignor.)
York, William H. (See York, David A., assignor.)
Yorke, Norman D. M., Glasgow, Scotland. Linear measure for ropes, &c. No. 1,022,916; Apr. 9; Sp. p. 2485; Gaz. vol. 177; p. 423.
Yorty, Harvey J., Pawpaw, Ill. Hat-fastener. No. 1,034,855; Aug. 6; Gaz. vol. 181; p. 154.
Yoshino, Matashiro, Dairen, Manchuria, and C. N. Edge, Shanghai, China; said Edge assignor to said Yoshino. Dumping-wagon. No. 1,018,469; Feb. 27; Sp. p. 4939; Gaz. vol. 175; p. 873.
Yost, Edward E., Manchester, N. Y. Wedge-bolt for locomotive-pedestals and the like. No. 1,037,100; Aug. 27; Gaz. vol. 181; p. 1017.
Yost, Winfield H., Montreal, Quebec, Canada, assignor to National Dump Car Company, Chicago, Ill. Car-door-operating mechanism. No. 1,028,415; June 4; Sp. p. 773; Gaz. vol. 179; p. 117.

Yost, Winfield H., Montreal, Quebec, Canada, assignor to Rodger Ballast Car Company, Chicago, Ill. Car. No. 1,028,925; June 11; Sp. p. 1871; Gaz. vol. 179; p. 323.
Yost, Winfield H., Montreal, Quebec, Canada, assignor to National Dump Car Company, Chicago, Ill. Pipe. No. 1,031,766; July 9; Gaz. vol. 180; p. 361.
Yost, Winfield H., assignor to The Hart-Otis Car Company, Limited, Montreal, Quebec, Canada. Car-truck. No. 1,048,022; Dec. 24; Gaz. vol. 185; p. 870.
Yost Writing Machine Company. (See Smith, Arthur W., assignor.)
Youhás, Andrew, Stamford, Conn. Detachable shoe-heel plate. No. 1,042,520; Oct. 29; Gaz. vol. 183; p. 1092.
Youmans, William R., Columbus, Ohio, assignor to The Jeffrey Manufacturing Company. Flame-proof switch. No. 1,042,865; Oct. 29; Gaz. vol. 183; p. 1213.
Younce, David S. and E. F., Union, Ohio. Silo. No. 1,018,540; Feb. 27; Sp. p. 5167; Gaz. vol. 175; p. 899.
Younce, Elias F. (See Younce, David S. and E. F.)
Young, Benjamin F. (See Spratt, George A., assignor.)
Young, Bernard S. (See Work, Jesse G., assignor.)
Young, Carl D. (See Tibbals and Young.)
Young, Carl J., Seattle, Wash. Clam-shell bucket. No. 1,037,570; Sept. 3; Gaz. vol. 182; p. 133.
Young, Charles A. (See Fisher and Young.)
Young, Charles A., Enon, Ohio. Repeating firearm. No. 1,013,353; Jan. 2; Sp. p. 583; Gaz. vol. 174; p. 93.
Young, Charles A., near Enon, Ohio. Firearm. No. 1,029,037; June 11; Sp. p. 2100; Gaz. vol. 179; p. 363.
Young, Charles B., New York, N. Y. Chenille fabric. No. 1,034,671; Aug. 6; Gaz. vol. 181; p. 89.
Young, Chester and E. G., Livermore, Cal. Adjustable seat for sidehill implements. No. 1,039,004; Sept. 17; Gaz. vol. 182; p. 688.
Young, Clarence H., Boston, Mass. Couch-bed. No. 1,020,630; Mar. 19; Sp. p. 3458; Gaz. vol. 176; p. 611.
Young, Clarence H., Boston, Mass. Bed-hammock. No. 1,030,960; July 2; Gaz. vol. 180; p. 38.
Young, Clarence H., Boston, Mass. Couch-bed. No. 1,031,608; July 2; Gaz. vol. 180; p. 263.
Young, Clarence H., Boston, Mass. Couch-bed. No. 1,035,934; Aug. 20; Gaz. vol. 181; p. 586.
Young, Edward J., Haverhill, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Tack-saver for lasting-machines. No. 1,030,220; June 18; Sp. p. 4678; Gaz. vol. 179; p. 805.
Young, Edwin G. (See Young, Chester and E. G.)
Young, Elmer I., Montclair, N. J., assignor to Acme Freezer Company, Philadelphia, Pa. Ice-cream-freezer dasher. No. 1,033,649; July 23; Gaz. vol. 180; p. 1079.
Young, Eugene, Princeton, Ky. Combined rail-fastener and tie. No. 1,037,706; Sept. 3; Gaz. vol. 182; p. 178.
Young, Fay H., Rockford, Ill. Acetylene-gas generator. No. 1,028,174; June 4; Sp. p. 268; Gaz. vol. 179; p. 33.
Young, Fletcher C., Raymond, Miss. Insect-catching device. No. 1,033,975; July 30; Gaz. vol. 180; p. 1217.
Young, Frank A., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 1,018, 950; Feb. 27; Sp. p. 6015; Gaz. vol. 175; p. 1037.
Young, Frank A., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 1,043,998; Nov. 12; Gaz. vol. 184; p. 367.
Young, Frank A., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 1,044,331; Nov. 12; Gaz. vol. 184; p. 479.
Young, Frank A., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 1,044,332; Nov. 12; Gaz. vol. 184; p. 480.
Young, Frank S., Newark, N. J. Manufacturing magnesium carbonate. No. 1,034,330; July 30; Gaz. vol. 180; p. 1340.
Young, Fred A., Rutland, Vt. Turf-cutter. No. 1,022,995; Apr. 9; Sp. p. 2645; Gaz. vol. 177; p. 451.
Young, Frederick W. (See McEwen and Young.)
Young, George, Jr. (See Young, Joseph A. and G., Jr.)
Young, George D., Hereford, Tex. Actuating device for circuit-closers. No. 1,043,655; Nov. 5; Gaz. vol. 184; p. 216.
Young, George E., *et al.* (See Long, Sidney L., assignor.)
Young, George W., Swampscott, Mass. Shelf-support. No. 1,038,813; Sept. 17; Gaz. vol. 182; p. 623.
Young, Harry W., Chicago, Ill. Electrical fuse-holder. No. 1,046,705; Dec. 10; Gaz. vol. 185; p. 357.
Young, Henry, New York, N. Y. Dish-warmer. No. 1,023,191; Apr. 16; Sp. p. 3116; Gaz. vol. 177; p. 557.
Young, Henry, assignor of one-third to C. Spreckels and J. E. Wadhams, San Diego, Cal. Apparatus for preventing metal incrustation. No. 1,032,723; July 16; Gaz. vol. 180; p. 732.
Young, Henry A., Providence, R. I. Toy handkerchief-box. No. 1,028,416; June 4; Sp. p. 774; Gaz. vol. 179; p. 117.
Young, J. Lowe. (See Angle and Young.)
Young, James B., Cumberland, Ind. Thermometer-case. No. 1,031,901; July 9; Gaz. vol. 180; p. 408.
Young, James W., Fullerton, Cal. Drill-rod grab. No. 1,048,630; Dec. 31; Gaz. vol. 185; p. 1115.
Young, Jean A., assignor of one-half to A. Benson, Millville, N. J. Mechanically-operated door-bell. No. 1,021,396; Mar. 26; Sp. p. 5101; Gaz. vol. 176; p. 923.
Young, Jefferson D., Chattanooga, Okla. Railway-rails and means for securing the meeting ends thereof together. No. 1,023,702; Apr. 16; Sp. p. 4105; Gaz. vol. 177; p. 721.
Young, Jesse F., Northport, Nebr. Windmill. No. 1,046,706; Dec. 10; Gaz. vol. 185; p. 357.
Young, John, and W. L. Baugh; said Young assignor to said Baugh, Mount Vernon, Mo. Axle-spindle. No. 1,045,352; Nov. 26; vol. 184; p. 892.
Young, John B., Los Angeles, Cal. Lock-nut. No. 1,047,870; Dec. 17; Gaz. vol. 185; p. 792.
Young, John D., Leechburg, Pa. Envelop-sealing device. No. 1,023,777; Apr. 16; Sp. p. 4235; Gaz. vol. 177; p. 744.
Young, John D., Leechburg, Pa. Envelop-moistening device. No. 1,031,158; July 2; Gaz. vol. 180; p. 110.
Young, John D., Leechburg, Pa. Envelop moistening and sealing device. No. 1,035,294; Aug. 13; Gaz. vol. 181; p. 330.
Young, John H., Pelham, N. Y. Igniting attachment for lamps. No. 1,048,258; Dec. 24; Gaz. vol. 185; p. 948.
Young, John J., Denver, Colo. Die-starter. No. 1,026,194; May 14; Sp. p. 2442; Gaz. vol. 178; p. 409.
Young, John J., Denver, Colo. Die-starter. No. 1,042,995; Oct. 29; Gaz. vol. 183; p. 1256.
Young, John L. (See Callender, Ward G., assignor.)
Young, Joseph A. and G., Jr., Bellevue, Iowa. Glass lens. No. 1,025,774; May 7; Sp. p. 1460; Gaz. vol. 178; p. 230.
Young, Julius F., Owatonna, Minn. Float-controlled valve. No. 1,027,965; May 28; Sp. p. 6311; Gaz. vol. 178; p. 1084.
Young, Leonard A. (See Price, George S., assignor.)
Young, Leonard A., Detroit, Mich. Reinforced-rim spring construction. No. 1,014,736; Jan. 16; Sp. p. 3668; Gaz. vol. 174; p. 626.
Young, Lorin W., New York, N. Y. Invisible lighting unit. No. 1,030,369; June 25; Sp. p. 5037; Gaz. vol. 179; p. 898.
Young, Lorin W., New York, N. Y. Holder for shades or globes. No. 1,030,370; June 25; Sp. p. 5038; Gaz. vol. 179; p. 898.
Young, Lorin W., New York, N. Y. Dust-collector for lamp-globes. No. 1,030,371; June 25; Sp. p. 5039; Gaz. vol. 179; p. 899.
Young, Lorin W., New York, N. Y. Illuminated flower-holder. No. 1,043,557; Nov. 5; Gaz. vol. 184; p. 184.
Young, Lorin W., assignor to Macbeth-Evans Glass Company, Pittsburgh, Pa. Art-glassware. No. 1,041,938; Oct. 22; Gaz. vol. 183; p. 869.
Young, Maimie I., Kearney, Nebr. Dough-raising device. No. 1,013,260; Jan. 2; Sp. p. 370; Gaz. vol. 174; p. 59.
Young-Mann-Averill Company. (See Young, Otis W., assignor.)
Young Manufacturing Company. (See Blodgett, Frederick E., assignor.)
Young, Nicholas W., *et al.* (See Tilton, John W., assignor.)
Young, Norris W., Wilsonville, Oreg. Feeder for baling-presses. No. 1,027,966; May 28; Sp. p. 6314; Gaz. vol. 178; p. 1084.
Young, O. L., *et al.* (See Appleget, Cyrus M., assignor.)
Young, Otis W., Chicago, Ill., assignor to Young-Mann-Averill Company. Locomotive valve-gear. No. 1,029,038; June 11; Sp. p. 2109; Gaz. vol. 179; p. 363.
Young, William, South Bellingham, Wash. Fender for motor-vehicles. No. 1,018,470; Feb. 27; Sp. p. 4941; Gaz. vol. 175; p. 873.
Young, William H., Athens, Ga. Machine for folding sheets of paper and inserting them in envelops. No. 1,046,707; Dec. 10; Gaz. vol. 185; p. 357.
Young, William H. F., Muncie, Ind. Combined lock and latch. No. 1,025,850; May 7; Sp. p. 1618; Gaz. vol. 178; p. 256.
Young, William H. F., Muncie, Ind. Combined lock and escutcheon-plates. No. 1,025,938; May 7; Sp. p. 1853; Gaz. vol. 178; p. 285.
Young, William J., Peabody, assignor to W. J. Young Machinery Company, Lynn, Mass. Skiving-machine. No. 1,033,366; July 23; Gaz. vol. 180; p. 987.
Youngblood, David F., San Antonio, Tex. Door-operating means. No. 1,030,699; June 25; Sp. p. 5944; Gaz. vol. 179; p. 1016.
Youngblood, Mary A., Parish, Fla. Jar-holder. No. 1,031,310; July 2; Gaz. vol. 180; p. 163.
Younger, Walter E., Port Arthur, Tex. Combined harrow and roller. No. 1,023,058; Apr. 9; Sp. p. 2779; Gaz. vol. 177; p. 473.
Younger, William E., Seattle, Wash. Advertising device. No. 1,038,057; Sept. 10; Gaz. vol. 182; p. 329.
Youngman, Robert H. (See McKnight and Youngman.)
Youngquist, Carl F. (See Youngquist, Carl G. and C. F.)
Youngquist, Carl G. and C. F., San Francisco, Cal. Wrench. No. 1,048,380; Dec. 24; Gaz. vol. 185; p. 991.
Youngren, Albert E., Kewanee, Ill. Internal-combustion engine. No. 1,037,400; Sept. 3; Gaz. vol. 182; p. 74.
Youngren, Albert E., Kewanee, Ill. Timer for explosion-engines. No. 1,037,401; Sept. 3; Gaz. vol. 182; p. 75.
Youngs, Fred E., Detroit, Mich. Locking and controlling means for turning plugs. No. 1,025,105; Apr. 30; Sp. p. 7213; Gaz. vol. 177; p. 1264.

Alphabetical list of patentees—Continued.

Youngston, James, Bear Poplar, N. C. Rail-joint. No. 1,020,070; Mar. 12; Sp. p. 2263; Gaz. vol. 176; p. 389.
Youngstown Sheet & Tube Company. (See Nullmeyer and Porath, assignors.)
Younie, William A., Everett, Mass. Glass-holder. No. 1,023,405; Apr. 16; Sp. p. 3532; Gaz. vol. 177; p. 629.
Yount, Jesse M., San Francisco, Cal. Welded rail-bond and fish-plate. No. 1,037,707; Sept. 3; Gaz. vol. 182; p. 179.
Yount, Jesse M., assignor of one-third to E. S. Brannaman and one-third to T. Finigan, San Francisco, Cal. Portable rheostat for welding apparatus. No. 1,046,708; Dec. 10; Gaz. vol. 185; p. 358.
Yount, Silas T., Chicago, Ill. Therapeutic device. No. 1,043,187; Nov. 5; Gaz. vol. 184; p. 51.
Yourelle, Thomas I., and J. Bellingham, Wellington, New Zealand. Ferroconcrete construction of buildings. No. 1,038,257; Sept. 10; Gaz. vol. 182; p. 395.
Ypina, Roberto. (See Méndez, Ciro F., assignor.)
Ypsilanti Lubricator Company. (See McCoy, Elijah, assignor.)
Yuha, Frank. (See Engebritson, Yuha, and Doebriner.)
Yuste, Eloy C., and F. Del Collado, Mexico, Mexico. Receptacle for bandage-rolls, gauze, and cotton-wool. No. 1,013,715; Jan. 2; Sp. p. 1382; Gaz. vol. 174; p. 216.
Zabawa, Ludwik, Baltimore, Md. Rail-chair. No. 1,037,708; Sept. 3; Gaz. vol. 182; p. 179.
Zabel, Charles. (See Wackermann and Zabel.)
Zabel, William, Edgewood Park, assignor to The Union Switch & Signal Company, Swissvale, Pa. Corner-post for box-like structures. No. 1,030,444; June 25; Sp. p. 5197; Gaz. vol. 179; p. 924.
Zabel, William, Beaver Falls, assignor, by mesne assignments, to W. H. Hays, Pittsburgh, Pa. Blindstitch-sewing machine. No. 1,031,767; July 9; Gaz. vol. 180; p. 361.
Zabriskie, Albert, assignor of one-half to E. D. Cundell, Paterson, N. J. Shell-roll. No. 1,046,532; Dec. 10; Gaz. vol. 185; p. 295.
Zabrocki, Tony, Winona, Minn. Magazine-camera. No. 1,032,098; July 9; Gaz. vol. 180; p. 473.
Zachhuber, Franz, Nuremberg, Germany. Insulator for automatically securing conducting-wires. No. 1,045,353; Nov. 26; Gaz. vol. 184; p. 893.
Zachow, Otto, assignor to Four Wheel Drive Auto Company, Clintonville, Wis. Differential gearing. No. 1,023,487; Apr. 16; Sp. p. 3691; Gaz. vol. 177; p. 653.
Zachow, Otto, assignor to The Badger Four Wheel Drive Auto Company, Clintonville, Wis. Wheel construction for automobiles. No. 1,028,082; May 28; Sp. p. 6571; Gaz. vol. 178; p. 1121.
Zacsek, Stefan, Los Angeles, Cal. Door-latch. No. 1,026,233; May 14; Sp. p. 2526; Gaz. vol. 178; p. 423.
Zadig, Curt, and F. H. Kaiser, New York, N. Y. Fender for gas-stove valves. No. 1,021,034; Mar. 26; Sp. p. 4306; Gaz. vol. 176; p. 800.
Zaerr, Byron L., Chicago, Ill., and C. W. Hamlin, Los Angeles, Cal. Coin-controlled stamp or ticket vending machine. No. 1,014,278; Jan. 9; Sp. p. 2639; Gaz. vol. 174; p. 440.
Zahm, Edward. (See Walquist, Frank W., assignor.)
Zahm, Edward, Buffalo, N. Y. Sterilizing filters. No. 1,023,488; Apr. 16; Sp. p. 3693; Gaz. vol. 177; p. 654.
Zahm, Edward, Buffalo, N. Y. Pressure-regulator. No. 1,042,745; Oct. 29; Gaz. vol. 183; p. 1171.
Zahm, Edward, assignor to Zahm Manufacturing Company, Buffalo, N. Y. Filter. No. 1,040,090; Oct. 1; Gaz. vol. 183; p. 140.
Zahm Manufacturing Company. (See Zahm, Edward, assignor.)
Zahn, Charles B., assignor to A. E. May, Rochester, N. Y. Rotary engine. No. 1,045,656; Nov. 26; Gaz. vol. 184; p. 1002.
Zahn, Robert, Plauen, Germany. Jacquard mechanism for embroidering-machines. No. 1,013,261; Jan. 2; Sp. p. 371; Gaz. vol. 174; p. 59.
Zahn, Robert, Plauen, Germany. Pantograph embroidering-machine. No. 1,013,467; Jan. 2; Sp. p. 825; Gaz. vol. 174; p. 131.
Zahn, Robert, Plauen, Germany. Embroidery-machine. No. 1,016,193; Jan. 30; Sp. p. 6776; Gaz. vol. 174; p. 1178.
Zahn, Robert, Plauen, Germany. Embroidery-machine. No. 1,016,194; Jan. 30; Sp. p. 6778; Gaz. vol. 174; p. 1178.
Zahn, Robert, Plauen, Germany. Embroidery-machine. No. 1,020,009; Mar. 12; Sp. p. 2137; Gaz. vol. 176; p. 368.
Zahn, Robert, Plauen, Germany. Jacquard embroidery-machine. No. 1,020,010; Mar. 12; Sp. p. 2138; Gaz. vol. 176; p. 368.
Zahn, Robert, Plauen, Germany. Shuttle embroidering-machine. No. 1,020,674; Mar. 19; Sp. p. 3551; Gaz. vol. 176; p. 625.
Zahn, Robert, Plauen, Germany. Automatic embroidering-machine. No. 1,027,789; May 28; Sp. p. 5881; Gaz. vol. 178; p. 1023.
Zahn, Robert, Plauen, Germany. Embroidery-machine. No. 1,031,159; July 2; Gaz. vol. 180; p. 110.
Zahn, Robert, Plauen, Germany. Jacquard embroidery-machine. No. 1,040,834; Oct. 8; Gaz. vol. 183; p. 426.
Zahn, Robert, Plauen, Germany. Embroidering-machine. No. 1,045,354; Nov. 26; Gaz. vol. 184; p. 893.
Zahn, Robert, Plauen, Germany. Card-punching and embroidering machine. No. 1,047,602; Dec. 17; Gaz. vol. 185; p. 699.
Zahn, Robert, Plauen, Germany. Jacquard embroidering-machine. No. 1,048,782; Dec. 31; Gaz. vol. 185; p. 1169.
Zahn, Robert, Plauen, Germany. Shuttle embroidering-machine. No. 1,049,026; Dec. 31; Gaz. vol. 185; p. 1253.
Zähringer, Arnold. (See Honold and Zähringer.)
Zähringer, Arnold, assignor to Firm of R. Bosch, Stuttgart, Germany. Operating mechanism for magneto-generators. No. 1,023,348; Apr. 16; Sp. p. 3417; Gaz. vol. 177; p. 610.
Zähringer, Arnold, assignor to Firm of R. Bosch, Stuttgart, Germany. Sparking plug for internal-combustion engines. No. 1,032,099; July 9; Gaz. vol. 180; p. 473.
Zalinsky, Joseph, assignor to Illinois Watch Case Company, Elgin, Ill. Stem setting and winding watch. No. 1,028,314; June 4; Sp. p. 545; Gaz. vol. 179; p. 80.
Zalmon G. Sholes Typewriter Company. (See Sholes, Zalmon G., assignor.)
Zalmon G. Sholes Typewriter Company. (See Sholes and Fraaz, assignors.)
Zalowitz, Joseph, New York, N. Y. Hat-fastener. No 1,048,259; Dec. 24; Gaz. vol. 185; p. 948.
Zamore, Adolf P., Månsbo, and O. F. Carlson, Ljunga Verk, Sweden, assignors to said Carlson. Treating lime-nitrogen. No. 1,042,746; Oct. 29; Gaz. vol. 183; p. 1171.
Zamrsky, Adolph. (See Harris and Zamrsky.)
Zander, Eugen, Stettin, Germany. Machine for expressing oleaginous material and the like. No. 1,045,355; Nov. 26; Gaz. vol. 184; p. 893.
Zander, John L., Irvington, N. J. Electrical recording apparatus for indicators. No. 1,031,408; July 2; Gaz. vol. 180; p. 196.
Zander, John L., Irvington, N. J. Electrical measuring instrument. No. 1,034,945; Aug. 6; Gaz. vol. 181; p. 182.
Zander, John L., Irvington, N. J. Pyrometer or thermo-battery. No. 1,038,258; Sept. 10; Gaz. vol. 182; p. 396.
Zange, Max C., Cincinnati, Ohio. Tool-case. No. 1,043,891; Nov. 12; Gaz. vol. 184; p. 328.
Zaniewski, William, Boston, Mass. Electric rat-trap. No. 1,023,608; Apr. 16; Sp. p. 3947; Gaz. vol. 177; p. 693.
Zaphiriadis, John, Lowell, Mass. Automatic gas cut-off. No. 1,031,224; July 2; Gaz. vol. 180; p. 133.
Zarbaugh, Lyman, L., Toledo, Ohio. Syringe-nozzle attachment. No. 1,031,609; July 2; Gaz. vol. 180; p. 264.
Zaring, Leander B., assignor of one-third to J. B. Wilkins and one-third to M. E. Jordan, Indianapolis, Ind. Stopper for non-refillable bottles. No. 1,035,068; Aug. 6; Gaz. vol. 181; p. 221.
Zarling, Henry, Sheboygan, Wis. Truck. No. 1,019,114; Mar. 5; Sp. p. 230; Gaz. vol. 176; p. 37.
Zart, Arthur. (See Ossenbeck and Zart.)
Zart, Arthur. (See Schweitzer and Zart.)
Zart, Arthur, Vohwinkel, near Elberfeld, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Azo dye. No. 1,015,375; Jan. 23; Sp. p. 5051; Gaz. vol. 174; p. 871.
Zart, Arthur, Vohwinkel, near Elberfeld, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Azo coloring-matter. No. 1,022,287; Apr. 2; Sp. p. 1125; Gaz. vol. 177; p. 179.
Zart, Arthur, Vohwinkel, near Elberfeld, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Azo coloring-matter. No. 1,022,288; Apr. 2; Sp. p. 1126; Gaz. vol. 177; p. 179.
Zart, Arthur, Vohwinkel, near Elberfeld, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Azo dye. No. 1,032,797; July 16; Gaz. vol. 180; p. 756.
Zarth, Otto, Aurora, Ill. Vehicle-wheel. No. 1,043,283; Nov. 5; Gaz. vol. 184; p. 84.
Zavodnik, David, assignor of three-fourths to L. Goldberg and M. Goldberg & Sons, New York, N. Y. Dress. No. 1,035,671; Aug. 13; Gaz. vol. 181; p. 460.
Zawadzki, Peter, Chicago, Ill. Clamp. No. 1,044,620; Nov. 19; Gaz. vol. 184; p. 610.
Zbornik, Joseph, Fort Atkinson, Iowa. Hay-rack. No. 1,025,939; May 7; Sp. p. 1855; Gaz. vol. 178; p. 286.
Zeal, Giles H., London, England. Case for clinical thermometers. No. 1,019,289; Mar. 5; Sp. p. 631; Gaz. vol. 176; p. 99.
Zechentmayer, Karl. (See Stachlin and Zechentmayer.)
Zee Socket and Mfg. Co., The. (See Both, Tonjes A. C., assignor.)
Zehendner, August J., Huntington, Ind. Headlight blind or shutter. No. 1,037,402; Sept. 3; Gaz. vol. 182; p. 75.
Zehner, Alfred G., *et al.* (See De Bats, Louis H. J., assignor.)
Zehner, F. Edwin, *et al.* (See De Bats, Louis H. J., assignor.)
Zeidler, William A., New York, N. Y. Turn-down-collar edge ironing or finishing machine. No. 1,022,169; Apr 2; Sp. p. 886; Gaz. vol. 177; p. 141.

Alphabetical list of patentees—Continued.

Zeigler, John L., Los Angeles, Cal., assignor to Vertical Condenser Company. Steam condenser and purifier. No. 1,020,675; Mar. 19; Sp. p. 3553; Gaz. vol. 176; p. 625.
Zeigler, Lyman H., Redkey, Ind. Ferrule for rake-handles. No. 1,025,501; May 7; Sp. p. 883; Gaz. vol. 178; p. 137.
Zeinzinger, Alois, Chicago, Ill. Mending cloth. No. 1,018,541; Feb. 27; Sp. p. 5168; Gaz. vol. 175; p. 899.
Zeipen, Felix, Fordville, N. D. Refrigerator-room. No. 1,029,484; June 11; Sp. p. 3072; Gaz. vol. 179; p. 515.
Zeis, Ira N. (See Hilty, Robert D., assignor.)
Zeisinger, Carl E., assignor of one-half to T. J. Zeisinger, Downing, Wis. Ironing-table. No. 1,022,996; Apr. 9; Sp. p. 2646; Gaz. vol. 177; p. 451.
Zeisinger, Theodore J. (See Zeisinger, Carl E., assignor.)
Zeiss, Firm of Carl. (See Eppenstein, Otto, assignor.)
Zeiss, Firm of Carl. (See Forstmann, Otto, assignor.)
Zeiss, Firm of Carl. (See Herschkowitsch, Mordko, assignor.)
Zeiss, Firm of Carl. (See Köhler, August, assignor.)
Zeiss, Firm of Carl. (See König, Albert, assignor.)
Zeiss, Firm of Carl. (See Mackensen, Otto, assignor.)
Zeiss, Firm of Carl. (See Rohr, Moritz von, assignor.)
Zeiss, Firm of Carl. (See Rudolph, Paul, assignor.)
Zeiss, Firm of Carl. (See Schüttauf, Richard, assignor.)
Zeiss, Firm of Carl. (See Siedentopf, Henry, assignor.)
Zeiss, Firm of Carl. (See Steinle, Adolf, assignor.)
Zeiss, Firm of Carl. (See Straubel, Rudolf, assignor.)
Zeiss, Firm of Carl. (See Wild, Heinrich, assignor.)
Zeitz, John J., assignor to The American Multigraph Company, Cleveland, Ohio. Inking attachment for printing-presses. No. 1,031,311; July 2; Gaz. vol. 180; p. 163.
Zeitz, John J., assignor to The American Multigraph Company, Cleveland, Ohio. Paper-feeding mechanism. No. 1,046,245; Dec. 3; Gaz. vol. 185; p. 156.
Zeitz, Otto R. H., Kiel, Germany. Grinding-machine. No. 1,045,243; Nov. 26; Gaz. vol. 184; p. 855.
Zeleny, Frank, and A. H. Ostberg, Aurora, Ill. Hopper-seat for passenger-cars. No. 1,045,927; Dec. 3; Gaz. vol. 185; p. 45.
Zelinsky, Hugo W., Tacoma, Wash. Bicycle-stand. No. 1,016,195; Jan. 30; Sp. p. 6779; Gaz. vol. 174; p. 1179.
Zell Aeromobile Company. (See Zell, Robert R., assignor.)
Zell, Erland, Gottenborg, Sweden. Rail, especially a tram-rail. No. 1,040,482; Oct. 8; Gaz. vol. 183; p. 302.
Zell, George, and W. S. Shenk, Lancaster, Pa. Shears. No. 1,029,411; June 11; Sp. p. 2934; Gaz. vol. 179; p. 490.
Zell, Robert R., assignor to Zell Aeromobile Company, Birmingham, Ala. Airship. No. 1,033,510; July 23; Gaz. vol. 180; p. 1033.
Zeller, Bernard L. (See Boegen, John E., assignor.)
Zeller, Charles, Spokane, Wash. Rail-joint. No. 1,048,631; Dec. 31; Gaz. vol. 185; p. 1115.
Zeller, Fritz, Renton, Wash. Curtain-pole. No. 1,036,404; Aug. 20; Gaz. vol. 181; p. 751.
Zeller, Fritz, Renton, Wash. Steel tie and rail-fastener. No. 1,037,403; Sept. 3; Gaz. vol. 182; p. 76.
Zeller, George, Issaquah, Wash. Trolley-guard. No. 1,048,260; Dec. 24; Gaz. vol. 185; p. 949.
Zellers, Claude M., St. Louis Mo. Automobile-top. No. 1,014,553; Jan. 9; Sp. p. 3192; Gaz. vol. 174; p. 532.
Zellers, John A., New York, N. Y., and G. T. Price, West Orange, N. J., assignors to The Smith Premier Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 1,016,724; Feb. 6; Sp. p. 1105; Gaz. vol. 175; p. 170.
Zellers, Robert E., Portland, Oreg. Dental apparatus. No. 1,043,284; Nov. 5; Gaz. vol. 184; p. 84.
Zells, Walter E., Ann Arbor, Mich. Combined aeroplane and dirigible balloon. No. 1,019,579; Mar. 5; Sp. p. 1283; Gaz. vol. 176; p. 192.
Zellweger, John, St. Louis, Mo. Recuperative roasting-kiln. No. 1,017,839; Feb. 20; Sp. p. 3552; Gaz. vol. 175; p. 624.
Zellweger, John, St. Louis, Mo. Recuperative zinc-smelting furnace. No. 1,028,417; June 4; Sp. p. 775; Gaz. vol. 179; p. 117.
Zenk, Charles, Wilkinsburg, assignor of one-fifth to W. M. Ebberts, Edgwood, Pa. Commutator. No. 1,046,928; Dec. 10; Gaz. vol. 185; p. 432.
Zent, Otto, Little River, Kans. Trestle. No. 1,014,554; Jan. 9; Sp. p. 3194; Gaz. vol. 174; p. 532.
Zenzes, Alexander, Berlin, Germany, assignor to Zenzes Converter Company, Chicago, Ill. Converter for metal. No. 1,035,295; Aug. 13; Gaz. vol. 181; p. 331.
Zenzes Converter Company. (See Zenzes, Alexander, assignor.)
Zeppelin, Arsene, Brookline, Mass. Shock-absorber. No. 1,037,404; Sept. 3; Gaz. vol. 182; p. 76.
Zerbee, Frank J., Bellefontaine, Ohio. Waste-steam detector. No. 1,027,368; May 21; Sp. p. 5027; Gaz. vol. 178; p. 847.
Zerbino, Pedro, Buenos Aires, Argentina. Sliding gate. No. 1,028,315; June 4; Sp. p. 550; Gaz. vol. 179; p. 81.
Zerk Manufacturing Company, The. (See Zerk, Oscar, assignor.)
Zerk, Oscar, assignor to The Zerk Manufacturing Company, Cleveland, Ohio. Making metal caps. No. 1,027,457; May 28; Sp. p. 5213; Gaz. vol. 178; p. 914.
Zerk, Oscar, assignor to The Zerk Manufacturing Company, Cleveland, Ohio. Grease-cup. No. 1,029,412; June 11; Sp. p. 2936; Gaz. vol. 179; p. 491.
Zerk, Oscar, assignor to The Zerk Manufacturing Company, Cleveland, Ohio. Grease-cup. No. 1,031,409; July 2; Gaz. vol. 180; p. 197.
Zerk, Oscar, assignor to The Zerk Manufacturing Company, Cleveland, Ohio. Grease-cup. No. 1,043,558; Nov. 5; Gaz. vol. 184; p. 184.
Zerk, Oscar, assignor to The Zerk Manufacturing Company, Cleveland, Ohio. Making winged caps. No. 1,048,261; Dec. 24; Gaz. vol. 185; p. 949.
Zerk, Oscar, assignor to The Zerk Manufacturing Company, Cleveland, Ohio. Grease-cup. No. 1,049,027; Dec. 31; Gaz. vol. 185; p. 1253.
Zerning, Hermann, Halensee, near Berlin, Germany, assignor, by mesne assignments, to The International "Z" Electric Lamp Association Limited, London, England. Producing hydrogenous compounds of tungsten and similar metals. No. 1,019,581; Mar. 5; Sp. p. 1288; Gaz. vol. 176; p. 193.
Zerreiss, Jean. (See Valentin, Zerreiss, and Georges.)
Zetterlund, Carl, Chicago, Ill. Hoisting apparatus. No. 1,048,927; Dec. 31; Gaz. vol. 185; p. 1218.
Zettervall, Andrew, Los Angeles, Cal. Register. No. 1,023,912; Apr. 23; Sp. p. 4600; Gaz. vol. 177; p. 819.
Zettler, Louis W., Louisville, Ky. Thermostat. No. 1,043,382; Nov. 5; Gaz. vol. 184; p. 121.
Zevely, John H., Winston Salem, N. C. Fishing-tackle. No. 1,032,100; July 9; Gaz. vol. 180; p. 474.
Zeyen, Adam. (See Busch, Charles H., assignor.)
Ziavin, Albert, Shelton, Wash. Electrocuting device for rats. No. 1,035,672; Aug. 13; Gaz. vol. 181; p. 460.
Ziebell, Robert. (See Monahan and Ziebell.)
Zieg, Frank B., assignor to The F. B. Zieg Manufacturing Company, Fredericktown, Ohio. Culvert-pipe. No. 1,037,709; Sept. 3; Gaz. vol. 182; p. 179.
Ziegler, Alfred A., assignor to United Electric Apparatus Company, Boston, Mass. Circuit-make-and-break device. No. 1,031,312; July 2; Gaz. vol. 180; p. 164.
Ziegler, Alfred A., assignor to United Electric Apparatus Company, Boston, Mass. Electric bell. No. 1,031,313; July 2; Gaz. vol. 180; p. 164.
Ziegler, Alfred A., assignor to United Electric Apparatus Company, Boston, Mass. Binding-post. No. 1,042,747; Oct. 29; Gaz. vol. 183; p. 1171.
Ziegler, Alfred T. (See Lorimer and Ziegler.)
Ziegler, David, New Haven, Conn., assignor to C. G. Z. Inventing Company. Lock. No. 1,045,356; Nov. 26; Gaz. vol. 184; p. 893.
Ziegler, John N., La Crosse, Wis. Level. No. 1,033,143; July 23; Gaz. vol. 180; p. 910.
Ziehler, Bernard H., Dayton, Ohio. Permutation-lock. No. 1,048,262; Dec. 24; Gaz. vol. 185; p. 949.
Zielinski, Franciszek, Warsaw, Russia. Brush-back blank. No. 1,039,005; Sept. 17; Gaz. vol. 182; p. 688.
Zielinski, Hipolit, Chelsea, Mass. Wrench. No. 1,038,708; Sept. 17; Gaz. vol. 182; p. 586.
Ziemann, Henry C., Millinocket, Me. Automatic feed-regulating mechanism for paper-making machines. No. 1,019,580; Mar. 5; Sp. p. 1286; Gaz. vol. 176; p. 192.
Ziemss, Henry, Jr., assignor to Chicago Railway Equipment Company, Chicago, Ill. Brake-beam. No. 1,030,757; June 25; Sp. p. 6096; Gaz. vol. 179; p. 1037.
Ziemss, Henry, Jr., assignor to Chicago Railway Equipment Company, Chicago, Ill. Brake-beam. No. 1,036,052; Aug. 20; Gaz. vol. 181; p. 626.
Ziemss, Henry, Jr., assignor to Chicago Railway Equipment Company, Chicago, Ill. Brake-beam. No. 1,036,053; Aug. 20; Gaz. vol. 181; p. 626.
Ziemss, Henry, Jr., assignor to Chicago Railway Equipment Company, Chicago, Ill. Brake-beam. No. 1,041,222; Oct. 15; Gaz. vol. 183; p. 589.
Ziemss, Henry, Jr., assignor to Chicago Railway Equipment Company, Chicago, Ill. Brake-beam. No. 1,045,244; Nov. 26; Gaz. vol. 184; p. 856.
Ziemss, Henry, Jr., assignor to Chicago Railway Equipment Company, Chicago, Ill. Brake-beam. No. 1,045,928; Dec. 3; Gaz. vol. 185; p. 45.
Zierath, Augustus C., assignor to Zierath Combination Drill Company, Los Angeles, Cal. Drilling-rig. No. 1,048,632; Dec. 31; Gaz. vol. 185; p. 1116.
Zierath Combination Drill Company. (See Zierath, Augustus C., assignor.)
Zies, Emanuel G., assignor to The Standard Lime & Stone Company, Baltimore, Md. Manufacture of magnesia. No. 1,031,502; July 2; Gaz. vol. 180; p. 228.
Zietlow, Paul F., New York, assignor to Triplex Mfg. Co., Brooklyn, N. Y. Faucet connection. No. 1,048,381; Dec. 24; Gaz. vol. 185; p. 991.
Zigahn, Carl. (See Bienutta, Fischbach, and Zigahn.)
Zika, Joseph T., Cleveland, Ohio. Tenon-machine gage. No. 1,043,285; Nov. 5; Gaz. vol. 184; p. 84.
Zilen, Victor W. (See Leighton and Zilen.)
Zill, Jacob, *et al.* (See Campbell, Howard S., assignor.)
Ziller, Robert L., Austin, Tex. Protector for the safety devices of oil-containers. No. 1,039,006; Sept. 17; Gaz. vol. 182; p. 688.
Zimdars, Anna, assignor of one-half to I. M. Davis, San Francisco, Cal. Game apparatus. No. 1,014,555; Jan. 9; Sp. p. 3196; Gaz. vol. 174; p. 532.

Alphabetical list of patentees—Continued.

Zimdars, John B., San Francisco, Cal. Automobile-seat. No. 1,017,488; Feb. 13; Sp. p. 2784; Gaz. vol. 175; p. 470.
Zimmer, Arthur A. A., London, England. Waterproofing linen or other textile articles and giving them a permanent glazed washable surface. No. 1,025,731; May 7; Sp. p. 1382; Gaz. vol. 178; p. 215.
Zimmer, Conrad W. (See Huber, John F., assignor.)
Zimmer, Conrad W., Buffalo, N. Y. Filing device for account-slips, &c. No. 1,048,023; Dec. 24; Gaz. vol. 185; p. 870.
Zimmer, Cyrus W., New York, N. Y. Combined incubator and brooder. No. 1,025,181; May 7; Sp. p. 157; Gaz. vol. 178; p. 26.
Zimmer, Paul, Schenectady, N. Y., assignor to General Electric Company. Automatic motor-starting rheostat. No. 1,021,227; Mar. 26; Sp. p. 4724; Gaz. vol. 176; p. 863.
Zimmer, Paul H., Schenectady, N. Y., assignor to General Electric Company. Controlling device for electric motors. No. 1,049,028; Dec. 31; Gaz. vol. 185; p. 1254.
Zimmerman, Abraham M., Lancaster, Pa. Wood-sawing machine. No. 1,021,813; Apr. 2; Sp. p. 117; Gaz. vol. 177; p. 23.
Zimmerman, Albert, Minneapolis, Minn. Valve for water-closets. No. 1,032,038; July 9; Gaz. vol. 180; p. 453.
Zimmerman, Albert P., Spring Valley, Minn. Bag-support. No. 1,028,520; June 4; Sp. p. 1003; Gaz. vol. 179; p. 152.
Zimmerman, Christ. (See Zimmerman, Clinton, assignor.)
Zimmerman, Clinton, assignor of one-third to C. Zimmerman, Worthington, Minn. Power transmission for automobiles. No. 1,033,511; July 23; Gaz. vol. 180; p. 1034.
Zimmerman, Frederick J., Athens, Ill. Grain-elevator wagon-dump and conveyer mechanism. No. 1,029,332; June 11; Sp. p. 2740; Gaz. vol. 179; p. 464.
Zimmerman, Guy, Versailles, Ill. Coaster-brake. No. 1,018,471; Feb. 27; Sp. p. 4943; Gaz. vol. 175; p. 873.
Zimmerman, Harry. (See Bartholomae, William, assignor.)
Zimmerman, Harry, Fremont, assignor, by mesne assignments, to The Chaddock-Kurz Reversible Glove Company, Cleveland, Ohio. Material-feeding mechanism. No. 1,034,555; Aug. 6; Gaz. vol. 181; p. 52.
Zimmerman, James G., Milwaukee, Wis., assignor to Allis-Chalmers Company. Resistance element. No. 1,023,543; Apr. 16; Sp. p. 3801; Gaz. vol. 177; p. 671.
Zimmerman, Robert M., Montreal, Quebec, Canada, assignor to National Dump Car Company, Chicago, Ill. Dump-car. No. 1,021,083; Mar. 26; Sp. p. 4402; Gaz. vol. 176; p. 817.
Zimmerman, Robert M., Montreal, Quebec, Canada, assignor to National Dump Car Company, Chicago, Ill. Dump-car. No. 1,021,084; Mar. 26; Sp. p. 4404; Gaz. vol. 176; p. 817.
Zimmerman, Robert M., Montreal, Quebec, Canada, assignor to National Dump Car Company, Chicago, Ill. Dump-car. No. 1,021,286; Mar. 26; Sp. p. 4844; Gaz. vol. 176; p. 884.
Zimmerman, Robert M., Montreal, Quebec, Canada, assignor to National Dump Car Company, Chicago, Ill. Dump-car. No. 1,021,287; Mar. 26; Sp. p. 4846; Gaz. vol. 176; p. 884.
Zimmerman, Robert M., Montreal, Quebec, Canada, assignor to National Dump Car Company, Chicago, Ill. Dump-car. No. 1,035,763; Aug. 13; Gaz. vol. 181; p. 490.
Zimmerman, Robert M., Montreal, Quebec, Canada, assignor to National Dump Car Company, Chicago, Ill. Door. No. 1,038,058; Sept. 10; Gaz. vol. 182; p. 329.
Zimmerman, Thomas A., Swissvale, Pa. Clock-controlled switch. No. 1,037,710; Sept. 3; Gaz. vol. 182; p. 180.
Zimmermann, Charles. (See Johnson, Alpha, assignor.)
Zimmermann, Frank, assignor to Francis Keil & Son, New York, N. Y. Resilient tire. No. 1,018,735; Feb. 27; Sp. p. 5571; Gaz. vol. 175; p. 964.
Zimmermann, William A., St. Louis, Mo. Transparency-holder for picture-machines. No. 1,032,798; July 16; Gaz. vol. 180; p. 757.
Zimmermann, William F. (See Eberhardt and Zimmermann.)
Zimmermann, William F., assignor to Gould & Eberhardt, Newark, N. J. Variable-speed mechanism. No. 1,021,439; Mar. 26; Sp. p. 5189; Gaz. vol. 176; p. 939.
Zimmermann, William F., assignor to Gould & Eberhardt, Newark, N. J. Work-table for metal-working machines. No. 1,029,656; June 18; Sp. p. 3437; Gaz. vol. 179; p. 611.
Zimmermann, William F., assignor to Gould & Eberhardt, Newark, N. J. Rack-cutting machine. No. 1,033,144; July 23; Gaz. vol. 180; p. 911.
Zimmermann, William F., assignor to Gould & Eberhardt, Newark, N. J. Gear-cutting machine or the like. No. 1,033,857; July 30; Gaz. vol. 180; p. 1174.
Zimmermann, William F., assignor to Gould & Eberhardt, Newark, N. J. Gear-cutting machine. No. 1,035,511; Aug. 13; Gaz. vol. 181; p. 406.
Zimmermann, William F., assignor to Gould & Eberhardt, Newark, N. J. Cutting helical gear-wheels. No. 1,036,948; Aug. 27; Gaz. vol. 181; p. 965.
Zimmermann, William F., assignor to Gould & Eberhardt, Newark, N. J. Cutting helical gear-wheels. No. 1,037,571; Sept. 3; Gaz. vol. 182; p. 133.
Zimmermann, William F., assignor to Gould & Eberhardt, Newark, N. J. Shaping-machine. No. 1,038,259; Sept. 10; Gaz. vol. 182; p. 396.
Zimmers, Abraham M., Baltimore, Md. Building-material construction. No. 1,023,059; Apr. 9; Sp. p. 2780; Gaz. vol. 177; p. 473.
Zimpel, Rudolf, Gross-Lichtenfelde, near Berlin, Germany. Mass for filling tires of vehicles. No. 1,036,170; Aug. 20; Gaz. vol. 181; p. 669.
Zindel, Barnhardt, Green Bay, Wis. Water-gage. No. 1,044,621; Nov. 19; Gaz. vol. 184; p. 610.
Zink, Luzian, Detroit, Mich. Brake-shoe control. No. 1,038,059; Sept. 10; Gaz. vol. 182; p. 329.
Zinn, Simon. (See Scheuber, August W., assignor.)
Zinslen, Joseph J. (See Belding and Zinslen.)
Zinsser, August, Jr., trustee. (See Holmes and Johnson, assignors.)
Zinsser, Frederick G. (See Nissinen, Toimi A., assignor.)
Zint, George, Wapakoneta, Ohio. Bell-ringing machine. No. 1,013,262; Jan. 2; Sp. p. 373; Gaz. vol. 174; p. 60.
Zint, George, Wapakoneta, Ohio. Automatic sprinkler. No. 1,038,060; Sept. 10; Gaz. vol. 182; p. 330.
Ziock, Theodore, St. Louis, Mo. Scarf. No. 1,027,580; May 28; Sp. p. 5472; Gaz. vol. 178; p. 957.
Zipfel, Jacob J., Loleta, Pa. Tie and rail-fastener. No. 1,020,470; Mar. 19; Sp. p. 3094; Gaz. vol. 176; p. 559.
Zirbel, Carl J., Montezuma, Iowa. Air-motor gear. No. 1,015,921; Jan. 30; Sp. p. 6221; Gaz. vol. 174; p. 1084.
Zirbel, Carl J., Montezuma, Iowa. Coin-controlled mechanism. No. 1,048,263; Dec. 24; Gaz. vol. 185; p. 950.
Ziringer, Roscoe C., Pittsburgh, Pa. Powder or liquid receptacle. No. 1,043,656; Nov. 5; Gaz. vol. 184; p. 216.
Zirkle, Walter I., Middletown, Ind. Buggy-top. No. 1,040,483; Oct. 8; Gaz. vol. 183; p. 302.
Zirwas, Henry. (See Kleber, Peter, assignor.)
Zitscher, Arthur. (See Laska, Zitscher, and Kunert.)
Zitscher, Arthur. (See Laska, Zitscher, and Rath.)
Zitscher, Arthur. (See Winther, Laska, and Zitscher.)
Zitscher, Arthur, and E. J. Rath, Offenbach-on-the-Main, assignors to Chemische Fabrik Griesheim-Elektron, Frankfort-on-the-Main, Germany. Anthracene derivatives and making same. No. 1,028,521; June 4; Sp. p. 1004; Gaz. vol. 179; p. 152.
Zizka, Frank, Lankin, N. D. Loading-cart. No. 1,044,841; Nov. 19; Gaz. vol. 184; p. 687.
Zmujdzinowicz, Michael J., Cleveland, Ohio. Aeroplane. No. 1,034,556; Aug. 6; Gaz. vol. 181; p. 52.
Zobel, Bruno, Chicago, Ill. Aeromotor. No. 1,039,240; Sept. 24; Gaz. vol. 182; p. 785.
Zock, August E., Toledo, assignor, by mesne assignments, to A. B. Creps, Maumee, Ohio. Agricultural tractor. No. 1,033,976; July 30; Gaz. vol. 180; p. 1217.
Zoldessy, Steffan, Philadelphia, Pa. Monkey-wrench. No. 1,046,709; Dec. 10; Gaz. vol. 185; p. 358.
Zoll, Oliver R. (See Therien and Zoll.)
Zollinger, Adalbert, Leipzig-Eutritzsch, assignor to Popper & Co., Leipzig, Germany. Musical instrument. No. 1,047,871; Dec. 17; Gaz. vol. 185; p. 793.
Zollinger, Ernesto, Turin, Italy. Reducing the size of pictures on kinematograph-films and of projecting such pictures to their normal proportions. No. 1,032,172; July 9; Gaz. vol. 180; p. 498.
Zollner, Theodore, Duluth, Minn. Automatic weighing device. No. 1,044,965; Nov. 19; Gaz. vol. 184; p. 729.
Zsan, Jacob, Mount Vernon, assignor to D. J. Keschansky, New Rochelle, N. Y. Tool-holder. No. 1,040,484; Oct. 8; Gaz. vol. 183; p. 302.
Zsinko, Steven, Los Angeles, Cal. Single-track railway. No. 1,042,066; Oct. 22; Gaz. vol. 183; p. 909.
Zsinko, Steven, Los Angeles, Cal. Bridge for single-track railways. No. 1,042,067; Oct. 22; Gaz. vol. 183; p. 910.
Zsuzsitz, Vinzenz, Aurora, Ill. Closure for bottles. No. 1,038,260; Sept. 10; Gaz. vol. 182; p. 396.
Zubli, Justus C., and A. Vles, Seattle, Wash. Attachment for electric lights. No. 1,025,896; May 7; Sp. p. 1769; Gaz. vol. 178; p. 271.
Züblin, Carl. (See Pielock and Züblin.)
Zuckerman, Bernat, New York, N. Y. Car-coupling. No. 1,047,603; Dec. 17; Gaz. vol. 185; p. 700.
Zuckerman, Emil, Yonkers, N. Y. Invisible hinge. No. 1,039,628; Sept. 24; Gaz. vol. 182; p. 920.
Zuckmayer, Fritz, assignor to Walther Wolff and Company, G. m. b. H., Elberfeld, Germany. Preparing iron-albuminous compounds containing phosphorus. No. 1,027,967; May 28; Sp. p. 6318; Gaz. vol. 178; p. 1085.
Zuckmayer, Fritz, assignor to Walther Wolff and Company, Gesellschaft mit beschränkter Haftung, Elberfeld, Germany. Preparing iron-albuminous compounds containing phosphorus. No. 1,027,968; May 28; Sp. p. 6322; Gaz. vol. 178; p. 1085.
Zuckmayer, Fritz, assignor to Dr. Walther Wolff and Company, Gesellschaft mit beschrankter Haftung, Elberfeld, Germany. Making iron-albuminous compounds. No. 1,036,405; Aug. 20; Gaz. vol. 181; p. 751.
Zuegner, Louis W., and A. V. Langsdon, Chicago, Ill. Universal test-indicator. No. 1,019,400; Mar. 5; Sp. p. 929; Gaz. vol. 176; p. 135.

Zuelzer, Georg, Berlin-Charlottenburg, Germany. Non-toxic suprarenal preparation. No. 1,014,198; Jan. 9; Sp. p. 2453; Gaz. vol. 174; p. 412.
Zuelzer, Georg, assignor to Chemische Fabrik auf Actien (vorm. E. Schering), Berlin, Germany. Pancreas preparation suitable for the treatment of diabetes. No. 1,027,790; May 28; Sp. p. 5884; Gaz. vol. 178; p. 1024.
Zuelzer, Georg, Berlin-Charlottenburg, assignor to Chemische Fabrik auf Actien (vorm. E. Schering), Berlin, Germany. Biological preparation for the production of intestinal peristalsis. No. 1,034,856; Aug. 6; Gaz. vol. 181; p. 154.
Zuggó, Károly, South Lorain, Ohio. Aeroplane. No. 1,014,430; Jan. 9; Sp. p. 2978; Gaz. vol. 174; p. 494.
Zuill, Walter J., Syracuse, N. Y. Laundrying-machine. No. 1,021,498; Mar. 26; Sp p. 5320; Gaz. vol. 176; p. 959.
Zuk, Joseph M., New Britain, Conn. Spring check-hinge. No. 1,041,223; Oct. 15; Gaz. vol. 183; p. 590.
Zuk, Joseph M., New Britain, Conn. Spring-hinge. No. 1,043,999; Nov. 12; Gaz. vol. 184; p. 367.
Zukor, Arnold. (See Neumann, Elenora, assignor.)
Zukor, Arnold, assignor of one-half to M. Neuman, New York, N. Y. Bath-tub head-rest. No. 1,032,173; July 9; Gaz. vol. 180; p. 498.
Zukor, Arnold, assignor of one-fourth to I. Newman, New York, N. Y. Burglar-alarm. No. 1,046,533; Dec. 10; Gaz. vol. 185; p. 295.
Zum Felde, Henry, New York, N. Y. Newspaper-holder frame. No. 1,040,915; Oct. 8; Gaz. vol. 183; p. 451.
Zumdahl, Frederick C., assignor to Rockford Engine Works, Rockford, Ill. Governor for explosive-engines. No. 1,032,978; July 16; Gaz. vol. 180; p. 815.
Zumdahl, Frederick C., assignor to Rockford Engine Works, Rockford, Ill. Gasolene-engine. No. 1,032,979; July 16; Gaz. vol. 180; p. 816.
Zundmetall-Gesellschaft m. b. H. (See Krieger, Ferdinand, assignor.)
Zunner, John H. G., Chicago, Ill. Pitching-machine. No. 1,026,729; May 21; Sp. p. 3608; Gaz. vol. 178; p. 627.
Zunner, John H. G., Rochester, N. Y., and A. Herrmann, Chicago, Ill., assignors to Zunner Machines Company, Rochester, N. Y. Keg-rinser. No. 1,045,929; Dec. 3; Gaz. vol. 185; p. 46.
Zunner Machines Company. (See Zunner and Herrmann, assignors.)
Zurbuchen, Fred, Alta Vista, Kans. Loader. No. 1,028,653; June 4; Sp. p. 1271; Gaz. vol. 179; p. 195.
Zurek, Paul, *et al.* (See Nalepka, Walenty, assignor.)
Zurn, Frank P., Chicago, Ill. Garment. No. 1,048,633; Dec. 31; Gaz. vol. 185; p. 1116.
Zuzulin, Nicolas G., Minot, N. D. Combination clothes-line and merry-go-round. No. 1,028,418; June 4; Sp. p. 779; Gaz. vol. 179; p. 118.
Zuzuly, Gustav, Pullman, Ill. Scraping-tool. No. 1,014,798; Jan. 16; Sp. p. 3805; Gaz. vol. 174; p. 647.
Zweigbergk, Thorsten von, Southport, England, assignor to General Electric Company. Motor-control system. No. 1,022,917; Apr. 9; Sp. p. 2487; Gaz. vol. 177; p. 424.
Zweng, Ludwig, Pfronten-Steinach, Germany. Means for adjusting the legs of compasses. No. 1,042,866; Oct. 29; Gaz. vol. 183; p. 1213.
Zwermann, Carl H., Kalamazoo, Mich. Flushing-tank. No. 1,032,317; July 9; Gaz. vol. 180; p. 548.
Zwick, Hans, Neustadt, Germany. Clarifying beverages. No. 1,045,245; Nov. 26; Gaz. vol. 184; p. 856.
Zwicky, Jean, South Tottenham, England. Pump for plant-spraying apparatus. No. 1,048,264; Dec. 24; Gaz. vol. 185; p. 951.
Zwinz, Franz, Vienna, Austria-Hungary. Winding apparatus for paper, cloth, or the like. No. 1,013,917; Jan. 9; Sp. p. 1842; Gaz. vol. 174; p. 316.
Zwolinski, Thaddeus, San Francisco, Cal. Automobile-lock. No. 1,048,783; Dec. 31; Gaz. vol. 185; p. 1169.
Zyburn, John H., Boundbrook, N. J. Flour-sifter. No. 1,024,962; Apr. 30; Sp. p. 6925; Gaz. vol. 177; p. 1217.
Zyliewicz, Nicefor, Chicago, Ill. Candle-holder. No. 1,034,751; Aug. 6; Gaz. vol. 181; p. 117.
Zyliewicz, Nicefor, Chicago, Ill. Candle-holder. No. 1,034,752; Aug. 6; Gaz. vol. 181; p. 117.
Zyliewicz, Nicefor, Chicago, Ill. Candle-holder. (Reissue.) No. 13,481; Oct. 15; Gaz. vol. 183; p. 757.
Zyliewicz, Nicefor, Chicago, Ill. Candle-holder. (Reissue.) No. 13,482; Oct. 15; Gaz. vol. 183; p. 758.
Zysset, Ernst, Wädenswil, Switzerland. Culinary-utensil cover. No. 1,013,263; Jan. 2; Sp. p. 379; Gaz. vol. 174; p. 61.

ALPHABETICAL LIST OF PATENTEES OF DESIGNS.

A. Leschen & Sons Rope Company. (See Leschen, Harry J., assignor.)
A. Wittnauer & Co. (See Wittnauer, Emile J., assignor.)
A. B. Stove Company. (See Alexander and Berry, assignors.)
A. C. Clark & Company. (See Clark, Albert C., assignor.)
A. G. Spalding & Bros. (See Breakspear, Frederick C., assignor.)
A. H. Heisey & Co. (See Sanford, Andrew J., assignor.)
A. H. & F. H. Lippincott. (See Lippincott, Fisher H., assignor.)
Aaron, Marcus, Pittsburgh, Pa. Plate. No. 42,616; June 18; Gaz. vol. 179; p. 825.
Abel, Edward C. (See Abel, John A. and E. C.)
Abel, John A. and E. C., New York, N. Y. Engagement-ring. No. 42,530; May 21; Gaz. vol. 178; p. 858.
Abel, John A. and E. C., New York, N. Y. Wedding-ring. No. 42,531; May 21; Gaz. vol. 178; p. 858.
Ackerman, Henry, Weehawken, N. J. Gem-setting. No. 42,428; Apr. 30; Gaz. vol. 177; p. 1271.
Ackerman, Henry, Weehawken, assignor of one-third to W. C. Nordt, Newark, and one-third to P. W. Nordt, East Orange, N. J. Setting for gems. No. 42,810; July 23; Gaz. vol. 180; p. 1119.
Adam, Agnes S., Washington, D. C. Garment-supporter. No. 43,030; Sept. 24; Gaz. vol. 182; p. 940.
Adams & Westlake Company, The. (See Dawley, Herbert M., assignor.)
Adams & Westlake Company, The. (See Hamm, William S., assignor.)
Adams & Westlake Company, The. (See Hamm and Newbold, assignors.)
Adamson, Cecil F., East Palestine, Ohio. Portable vulcanizer. No. 42,721; July 9; Gaz. vol. 180; p. 568.
Aermore Manufacturing Company. (See Lansing, Gulian V. P., assignor.)
Alball Manufacturing Company. (See Millard, William, assignor.)
Albino, Louis, Brooklyn, N. Y. Ash-tray. No. 43,025; Sept. 17; Gaz. vol. 182; p. 710.
Alexander, John A., and F. K. Berry, assignors to A. B. Stove Company, Battle Creek, Mich. Gas-range. Nos. 42,570–1; June 4; Gaz. vol. 179; p. 261.
Alexander, John A., and F. K. Berry, assignors to A. B. Stove Company, Battle Creek, Mich. Stove-door. Nos. 43,209–10; Nov. 5; Gaz. vol. 184; pp. 261–2.
Alexander Smith & Sons Carpet Company. (See Heidl, Friedrich, assignor.)
Alexander Smith & Sons Carpet Company. (See Parton, Henry W., assignor.)
Alexander Smith & Sons Carpet Company. (See Stengel, George J., assignor.)
Allen, Charles J., Moorestown, N. J. Gear-casing. No. 43,399; Dec. 31; Gaz. vol. 185; p. 1357.
Allen, Grosvenor N., assignor to Oneida Community, Limited, Oneida, N. Y. Handle for spoons, forks, or similar articles. No. 42,384; Apr. 9; Gaz. vol. 177; p. 499.
Allen, Grosvenor N., assignor to Oneida Community, Limited, Oneida, N. Y. Handle for spoons, forks, or similar articles. No. 42,988; Sept. 10; Gaz. vol. 182; p. 484.
Allen, Herbert M., Chicago, Ill. Christmas stocking. No. 42,346; Mar. 26; Gaz. vol. 176; p. 1045.
Allen, James M., assignor to Fellhauer Allen Manufacturing Company, St. Louis, Mo. Safe. No. 43,260; Nov. 19; Gaz. vol. 184; p. 785.
Alpha Embroidery Co. (See Rieger, Ida, assignor.)
Altenberg, George P., Cincinnati, Ohio. Carafe. No. 42,617; June 18; Gaz. vol. 179; p. 825.
Alvord, John J., and F. Karsitz, Bridgeport, Conn. Member of a pair of shears. No. 42,385; Apr. 9; Gaz. vol. 177; p. 499.
American Graphophone Company. (See Wirts, Stephen M., assignor.)
American Poultry Association. (See Schilling, Arthur, assignor.)
American Sanitary Works. (See Tilden, Bert O., assignor.)
American Sign Company. (See Davis, Clyde M., assignor.)
American Stove Company. (See Roy, Joseph, assignor.)
American Tobacco Company. (See Tessier, Mortimer V., assignor.)
American Tobacco Company. (See Tuttle, Washington I., assignor.)
American Tobacco Company. (See Weise, Charles, assignor.)
Amisson, Josiah, Lambertville, N. J. Water-closet bowl. No. 42,722; July 9; Gaz. vol. 180; p. 568.
Andersen, Ernest W., San Francisco, Cal. Asparagus-dish. No. 42,682; July 2; Gaz. vol. 180; p. 291.
Andersen, Lauritz W., assignor to The Plume & Atwood Manufacturing Company, Waterbury, Conn. Canopy. No. 43,131; Oct. 15; Gaz. vol. 183; p. 758.
Andersen, Lauritz W., assignor to The Plume & Atwood Manufacturing Company, Waterbury, Conn. Dome-holder. No. 43,132; Oct. 15; Gaz. vol. 183; p. 758.
Andersen, Lauritz W., assignor to The Plume & Atwood Manufacturing Company, Waterbury, Conn. Socket-cover. No. 43,133; Oct. 15; Gaz. vol. 183; p. 758.
Andersen, Lauritz W., assignor to The Plume & Atwood Manufacturing Company, Waterbury, Conn. Ceiling and shower plate. No. 43,211; Nov. 5; Gaz. vol. 184; p. 262.
Andersen, Lauritz W., assignor to The Plume & Atwood Manufacturing Company, Waterbury, Conn. Oval wall-plate. No. 43,212; Nov. 5; Gaz. vol. 184; p. 262.
Anderson, Edward L., assignor to R. & G. Company, Attleboro, Mass. Collar-fastener. No. 43,333; Dec. 10; Gaz. vol. 185; p. 506.
Anderson, Harry F., Marion, Ind. Reflector for use in illuminated advertising-signs. No. 42,723; July 9; Gaz. vol. 180; p. 568.
Anderson, Walter C., assignor to United States Glass Company, Pittsburgh, Pa. Tumbler. No. 42,683; July 2; Gaz. vol. 180; p. 291.
Andrew B. Hendryx Co., The. (See Hoefler, George C., assignor.)
Andrews, Horace W., Portland, Oreg. Motor-chair. No. 43,077; Oct. 1; Gaz. vol. 183; p. 202.
Andrick, Wallace P. (See Lowe, Haff, and Andrick.)
Anklam, William F., assignor to C. M. Hall Lamp Company, Detroit, Mich. Lamp. No. 42,724; July 9; Gaz. vol. 180; p. 568.
Annis, John E., Chattanooga, Tenn. Metal shingle. No. 42,101; Jan. 23; Gaz. vol. 174; p. 1006.
Annis, John E., Chattanooga, Tenn. Metal shingle. No. 43,400; Dec. 31; Gaz. vol. 185; p. 1357.
Armspear Manufacturing Company. (See Spear, Furman D., assignor.)
Armstrong, Andrew D., Chicago, Ill. Level. No. 42,347; Mar. 26; Gaz. vol. 176; p. 1046.
Armstrong Cork Company. (See Humphreys, Charles F., assignor.)
Armstrong Cork Company. (See Humphreys, Harry, assignor.)
Arnone, Cyrus, New York, N. Y. Cake of soap. No. 42,906; Aug. 20; Gaz. vol. 181; p. 797.
Ashley & Bailey Company, The. (See Goldthorpe, Arthur E., assignor.)
Ashley, Frank M., New York, N. Y. Inkstand. No. 42,077; Jan. 9; Gaz. vol. 174; p. 569.
Astruck, John H., New York, N. Y. Coin-tray. No. 43,261; Nov. 26; Gaz. vol. 184; p. 1052.
Atkinson, Kirby J. (See Crawford and Atkinson.)
Atlanta Stove Works. (See Carteng, Gunnar, assignor.)
Atlanta Stove Works. (See Lehman, Max R., assignor.)
Atlanta Stove Works. (See Thiem, Rudolph, assignor.)
Aufiero, Emanuel, Brooklyn, N. Y. Automobile-horn. No. 42,928; Aug. 27; Gaz. vol. 181; p. 1049.
Aufiero, Emanuel, Brooklyn, N. Y. Automobile-signal. No. 43,213; Nov. 5; Gaz. vol. 184; p. 262.
Austin, Herbert A., Roxbury, Mass. Hair ornament or bandeau. No. 42,929; Aug. 27; Gaz. vol. 181; p. 1049.
Averns, Raymond H., Coventry, England. Braid or trimming. Nos. 42,429–30; Apr. 30; Gaz. vol. 177; pp. 1271–2.
B. F. Goodrich Company, The. (See Lohmann, Alfred P., assignor.)
B. F. Goodrich Company. (See Shaw, Edwin C., assignor.)
B. F. Goodrich Company, The. (See Work, Bertram G., assignor.)
Bailey, Robert L., assignor to A. L. Macleod, Portland, Oreg. Motor-cycle frame. No. 43,262; Nov. 26; Gaz. vol. 184; p. 1052.
Baird, Roswell C., Cumberland, Wis. Badge, emblem, or similar article. No. 43,100; Oct. 8; Gaz. vol. 183; p. 480.
Baker, Thomas W. (See Magee, Frederick W., assignor.)
Baldwin, Carlisle H., assignor to The Corbin Cabinet Lock Company, New Britain, Conn. Mail-box. No. 42,095; Jan. 16; Gaz. vol. 174; p. 813.
Ball, George W., Boise, Idaho. Badge, charm, or similar article. No. 43,175; Oct. 22; Gaz. vol. 183; p. 1011.
Bandlow, Henry E., Chicago, Ill. Lamp. No. 42,078; Jan. 9; Gaz. vol. 174; p. 569.
Bandlow, Henry E., Chicago, Ill. Gasolene-heated sad-iron. No. 43,185; Oct. 29; Gaz. vol. 183; p. 1280.
Banks, Elsie G., Toronto, Ontario, Canada. Purse. No. 43,334; Dec. 10; Gaz. vol. 185; p. 506.

Alphabetical list of patentees of designs—Continued.

Bardezbanian, Takvor, New York, N. Y. Bread-board. No. 42,117; Jan. 30; Gaz. vol. 174; p. 1196.
Barker, Alfred. (See Barker, James, A., and J. P.)
Barker, James, A., and J. P., assignors to said James Barker, Philadelphia, Pa. Chair-arm. No. 42,096; Jan. 16; Gaz. vol. 174; p. 813.
Barker, Joseph P. (See Barker, James, A., and J. P.)
Barmore, Nathaniel L., Chicago, Ill. Name-plate for burial-caskets. No. 42,079; Jan. 9; Gaz. vol. 174; p. 569.
Baron, Charles S., Tiffin, Ohio. Molasses-pitcher. No. 43,350; Dec. 24; Gaz. vol. 185; p. 1025.
Barthel, Georg A., Chicago, Ill. Basket. No. 43,101; Oct. 8; Gaz. vol. 183; p. 480.
Bates, Mark E., Liberty, Ind. Station-indicator or similar article. No. 43,296; Dec. 3; Gaz. vol. 185; p. 220.
Baugh, Ansel M., Omaha, Nebr. Vulcanizer. No. 43,214; Nov. 5; Gaz. vol. 184; p. 262.
Beach, Harry L., Coshocton, Ohio, assignor to Charles E. Hires Co., Philadelphia, Pa. Stamped-metal framed picture. No. 42,266; Mar. 12; Gaz. vol. 176; p. 497.
Becker, August, Brooklyn, N. Y. Lace curtain. Nos. 42,599–600; June 11; Gaz. vol. 179; p. 550.
Becker, Hugo. (See Will and Becker.)
Beckwith, Arthur K., assignor to the Estate of P. D. Beckwith, Incorporated, Dowagiac, Mich. Cooking stove or range. No. 42,102; Jan. 23; Gaz. vol. 174; p. 1006.
Beckwith, Arthur K., assignor to Estate of P. D. Beckwith, Incorporated, Dowagiac, Mich. Stove or range leg-base. No. 42,450; May 7; Gaz. vol. 178; p. 292.
Beers, George E., New York, N. Y. Sock or stocking. No. 43,351; Dec. 24; Gaz. vol. 185; p. 1025.
Beiderhase, George B., assignor to Joseph Fahys & Co., New York, N. Y. Bottle. No. 42,431; Apr. 30; Gaz. vol. 177; p. 1272.
Beldam, George W., Ealing, England. Pneumatic-tire tread. Nos. 42,103–4; Jan. 23; Gaz. vol. 174; p. 1007.
Bell, Walter J., Los Angeles, Cal. Electric switchboard. No. 43,026; Sept. 17; Gaz. vol. 182; p. 710.
Bender, Theodore, assignor to Gorham Manufacturing Company, Providence, R. I. Comb or similar article. No. 42,907; Aug. 20; Gaz. vol. 181; p. 797.
Bender, Theodore, assignor to Gorham Manufacturing Company, Providence, R. I. Back of mirrors or similar articles. No. 42,908; Aug. 20; Gaz. vol. 181; p. 797.
Bender, Theodore, assignor to Gorham Manufacturing Company, Providence, R. I. Back of brushes or similar articles. No. 42,909; Aug. 20; Gaz. vol. 181; p. 798.
Bender, Theodore, assignor to Gorham Manufacturing Company, Providence, R. I. Handle of a button-hook or similar article. No. 43,031; Sept. 24; Gaz. vol. 182; p. 940.
Benjamin Electric Manufacturing Company. (See Benjamin, Reuben B., assignor.)
Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Electric lamp. No. 42,118; Jan. 30; Gaz. vol. 174; p. 1196.
Bennett, Charles A., Taunton, Mass. Tray or similar article. No. 42,161; Feb. 13; Gaz. vol. 175; p. 519.
Bennett, F. H. (See Ellis, Carleton, assignor.)
Bergland, Carl, East Orange, assignor to Lauter Company, Newark, N. J. Player-piano lever. No. 42,989; Sept. 10; Gaz. vol. 182; p. 484.
Berkof, Jacob W., New York, N. Y. Toy Angora poodle-dog. No. 42,497; May 14; Gaz. vol. 178; p. 565.
Berkof, Jacob W., New York, N. Y. Toy poodle-dog. No. 42,498; May 14; Gaz. vol. 178; p. 566.
Bernstein, Fred S., Chicago, Ill. Advertising-sign structure. No. 43,263; Nov. 26; Gaz. vol. 184; p. 1052.
Bernstein, Michael, New York, N. Y. Penholder or similar article. No. 43,242; Nov. 12; Gaz. vol. 184; p. 528.
Bernstein, William, New York, N. Y. Shoe. No. 42,379; Apr. 2; Gaz. vol. 177; p. 220.
Berry, Frank K. (See Alexander and Berry.)
Bertram, William L. (See Stellwagen, Carter, and Bertram.)
Bettendorf, Joseph W., administrator. (See Bettendorf, William P.)
Bettendorf, William P., deceased; J. W. Bettendorf, administrator, Bettendorf, Iowa. Railway-car body. No. 43,078; Oct. 1; Gaz. vol. 183; p. 202.
Bigelow Carpet Company. (See Elliot, William A., assignor.)
Bigelow Carpet Company. (See Fisher, Edwin, assignor.)
Bigelow Carpet Company. (See Lacouture, Henry C., assignor.)
Bigelow Carpet Company. (See Loudon, Milton R., assignor.)
Bigelow Carpet Company. (See Merry, John, assignor.)
Bigelow Carpet Company. (See Moffat, John B., assignor.)
Bigelow Carpet Company. (See Pardoe, William A., assignor.)
Bigelow Carpet Company. (See Reith, William G., assignor.)
Bigelow Carpet Company. (See Riddell, Robert F., assignor.)
Bigelow Carpet Company. (See Sauer, Emil G., assignor.)
Bigelow Carpet Company. (See Schindler, Francis, assignor.)
Bigelow Carpet Company. (See Spring, John, assignor.)
Bigelow Carpet Company. (See Spring, William A., assignor.)
Bigelow Carpet Company. (See Trik, Ernest W., assignor.)
Bigelow Carpet Company. (See Wishart, Joseph, assignor.)
Bigney, Sidney O., Attleboro, Mass. Coin-holder and vinaigrette. No. 42,182; Feb. 20; Gaz. vol. 175; p. 822.
Bigney, Sidney O., Attleboro, Mass. Bracelet. No. 42,532; May 21; Gaz. vol. 178; p. 858.
Bigney, Sidney O., Attleboro, Mass. Watch-chain charm. No. 42,910; Aug. 20; Gaz. vol. 181; p. 798.
Billings, Herbert E., Woodstock, assignor to The Oliver Typewriter Company, Chicago, Ill. Font of type. No. 43,215; Nov. 5; Gaz. vol. 184; p. 263.
Bilyeu, Thomas, assignor to United States Cashier Company, Portland, Oreg. Casing for a coin-handling machine. No. 43,401; Dec. 31; Gaz. vol. 185; p. 1357.
Birkin, Charles W., Nottingham, England. Levers lace. Nos. 42,451–3; May 7; Gaz. vol. 178; pp. 292–3.
Birkin, Charles W., Nottingham, England. Levers lace. No. 42,662; June 25; Gaz. vol. 179; p. 1079.
Blanc, Augustin. (See Jay, Jalliffier, and Blanc.)
Blesch, Charles, Newport, Ky., assignor to The Crane & Breed Manufacturing Company, Cincinnati, Ohio. Burial-casket handle. Nos. 42,520–1; May 14; Gaz. vol. 178; p. 570.
Blesch, Charles, Newport, Ky., assignor to The Crane & Breed Manufacturing Company, Cincinnati, Ohio. Burial-casket handle-plate. No. 43,186; Oct. 29; Gaz. vol. 183; p. 1281.
Blesch, Charles, Newport, Ky., assignor to The Crane & Breed Manufacturing Company, Cincinnati, Ohio. Burial-casket handle. No. 43,264; Nov. 26; Gaz. vol. 184; p. 1052.
Blewett, Arthur R., Spokane, Wash. Street-electrolier. No. 42,725; July 9; Gaz. vol. 180; p. 569.
Bliss, Herbert C., Attleboro, Mass. Tubular stock for jewelry or similar articles. No. 42,411; Apr. 23; Gaz. vol. 177; p. 1018.
Bliss, Herbert C., Attleboro, Mass. Bracelet. No. 42,412; Apr. 23; Gaz. vol. 177; p. 1018.
Bliss, Herbert C., Attleboro, Mass. Locket. No. 42,454; May 7; Gaz. vol. 178; p. 293.
Bloodworth, Kate, assignor to The Pantasote Company, New York, N. Y. Fabric. No. 42,413; Apr. 23; Gaz. vol. 177; p. 1018.
Blowers, William R., Toronto, Ontario, Canada. Tire-tread. No. 43,335; Dec. 10; Gaz. vol. 185; p. 507.
Boderman, Joseph, New York, N. Y. Hanging lamp. No. 42,455; May 7; Gaz. vol. 178; p. 293.
Boeckel, Robert C., York, Pa. Bar of candy. No. 42,162; Feb. 13; Gaz. vol. 175; p. 519.
Bogart, Willie F., and F. K. Hottal, Wilmington, N. C. Advertising-cabinet. No. 42,726; July 9; Gaz. vol. 180; p. 569.
Booher, William J. H., Oxford, N. C. Poison-bottle. No. 42,831; July 23; Gaz. vol. 180; p. 1122.
Booth, Kraft, assignor to Gillinder & Sons, Inc., Philadelphia, Pa. Artificial-light shade. No. 43,079; Oct. 1; Gaz. vol. 183; p. 202.
Bottome, Edgar M., assignor to Fostoria Glass Company, Moundsville, W. Va. Glass vessel. No. 42,163; Feb. 13; Gaz. vol. 175; p. 519.
Bottome, Edgar M., assignor to Fostoria Glass Company, Moundsville, W. Va. Drinking vessel or similar article. Nos. 42,348–9; Mar. 26; Gaz. vol. 176; p. 1046.
Bottome, Edgar M., Moundsville, W. Va., and H. A. Marshall, Chicago, Ill., assignors to Fostoria Glass Company, Moundsville, W. Va. Drinking vessel or similar article. No. 42,350; Mar. 26; Gaz. vol. 176; p. 1046.
Botts, William A. (See Van Sant, Richard L., assignor.)
Bourgeois Bros. Company. (See Rothlisberger, Jacob, assignor.)
Bowes, William M., New York, N. Y. Handle of scissors-blades. No. 43,265; Nov. 26; Gaz. vol. 184; p. 1053.
Brandon, Rodney H., Anderson, Ind. Badge. No. 42,267; Mar. 12; Gaz. vol. 176; p. 497.
Brandt, Carl, Boston, Mass. Hat-sweat. No. 43,251; Nov. 19; Gaz. vol. 184; p. 784.
Brandt Cashier Company. (See Brandt, Edward J., assignor.)
Brandt, Edward J., Watertown, Wis., assignor to Brandt Cashier Company, Chicago, Ill. Casing for coin-delivering machines. No. 43,134; Oct. 15; Gaz. vol. 183; p. 759.
Breakspear, Frederick C., Chicopee, Mass., assignor to A. G. Spalding & Bros., Jersey City, N. J. Golf-ball. No. 42,164; Feb. 13; Gaz. vol. 175; p. 519.
Brennecke, Erich, Munich, Germany. Sheet-glass. No. 42,727; July 9; Gaz. vol. 180; p. 569.
Broderick, John K., St. Louis, Mo. Cigar or similar article. No. 42,414; Apr. 23; Gaz. vol. 177; p. 1018.
Bromley & Sons, John. (See Petzold, Adolph, assignor.)

Alphabetical list of patentees of designs—Continued.

Brommenschenkel, Theodore, Aurora, Ill. Necktie-holder. No. 42,432; Apr. 30; Gaz. vol. 177; p. 1272.
Brooker, Leo N., St. Paul, Minn. Fraternal emblem. No. 42,080; Jan. 9; Gaz. vol. 174; p. 569.
Brown, Frank A., Wilmette, Ill. Jar. No. 42,990; Sept. 10; Gaz. vol. 182; p. 484.
Brown, Herbert L., assignor to The H. L. Brown Fence and Manufacturing Company, Cincinnati, Ohio. Wire fence. No. 42,433; Apr. 30; Gaz. vol. 177; p. 1272.
Brown, Leslie A., assignor to R. Wallace & Sons Mfg. Co., Wallingford, Conn. Spoon, fork, or similar article. No. 42,867; Aug. 13; Gaz. vol. 181; p. 513.
Brown, Morrow D. (See Peters and Brown.)
Brundige, Sarah L., Savannah, Ga. Girdle for waist foundations. No. 42,196; Feb. 27; Gaz. vol. 175; p. 1068.
Brunswick-Balke-Collender Co., The. (See Davenport, Harmon F., assignor.)
Brunswick Balke Collender Co., The. (See Hine, Cicero, assignor.)
Brunswick Balke Collender Co., The. (See Hine and Schank, assignors.)
Brush, Alanson P., Flint, Mich. Automobile-body. No. 43,135; Oct. 15; Gaz. vol. 183; p. 759.
Bryce, Edwin W., Pittsburgh, Pa. Lamp-collar. No. 42,572; June 4; Gaz. vol. 179; p. 262.
Buermann, Henry, Newark, N. J. Holder for whisk-brooms and similar articles. No. 42,122; Feb. 6; Gaz. vol. 175; p. 238.
Burgess, Frank A., Geneva, Ill. Sad-iron stand. No. 42,522; May 14; Gaz. vol. 178; p. 570.
Burns, Benjamin A., Shelton, Conn. Handle for spoons or similar articles. No. 42,123; Feb. 6; Gaz. vol. 175; p. 238.
Bux, Julius R., and G. R. Opperman, Philadelphia, Pa. Textile edging. No. 43,266; Nov. 26; Gaz. vol. 184; p. 1053.
Buyer, Samuel, Yonkers, N. Y. Merchandise-display stand. No. 42,684; July 2; Gaz. vol. 180; p. 292.
C. M. Hall Lamp Company. (See Anklam, William F., assignor.)
Cadillaqua. (See Graves, George W., assignor.)
Cahoone, George H. (See Wacha, John C., assignor.)
Cairns, William, assignor to Parish & Bingham Company, Cleveland, Ohio. Running-board for automobiles. No. 42,124; Feb. 6; Gaz. vol. 175; p. 238.
Calautti, Saverio, New York, N. Y. Automobile-horn. No. 42,183; Feb. 20; Gaz. vol. 175; p. 822.
Caldwell, Edward F., Larchmont, N. Y. Box. No. 42,251; Mar. 5; Gaz. vol. 176; p. 251.
Caldwell, Edward F., Larchmont, N. Y. Portfolio-cover. Nos. 42,351–2; Mar. 26; Gaz. vol. 176; p. 1046.
Caldwell, Edward F., Larchmont, N. Y. Portfolio-cover. No. 42,456; May 7; Gaz. vol. 178; p. 293.
Caldwell, Eugene S., Philadelphia, Pa. Thermostatic valve. No. 42,081; Jan. 9; Gaz. vol. 174; p. 569.
Calvert, Frank W., Narberth, assignor to The Charles E. Hires Company, Philadelphia, Pa. Ice-chest for liquid-dispensing apparatus. No. 42,268; Mar. 12; Gaz. vol. 176; p. 497.
Cameron, Arthur, assignor to Ivory Safety Razor Company, Chicago, Ill. Chime-whistle. No. 42,832; July 30; Gaz. vol. 180; p. 1373.
Campbell, Edmund G., St. Paul, Minn. Towel-dispenser. No. 43,297; Dec. 3; Gaz. vol. 185; p. 220.
Campbell, John A., assignor to Trenton Potteries Company, Trenton, N. J. Lavatory. No. 42,457; May 7; Gaz. vol. 178; p. 293.
Cannon, Edson L., Cleveland, Ohio. Grease-cup. No. 42,911; Aug. 20; Gaz. vol. 181; p. 798.
Cansler, Harry C., Knoxville, Tenn. Seat. No. 42,184; Feb. 20; Gaz. vol. 175; p. 822.
Carbery, Norman A., Chicago, Ill. Statuette. Nos. 43,102–3; Oct. 8; Gaz. vol. 183; p. 480.
Carlson, Albin, assignor to Standard Engraving and Cut Glass Company, Minneapolis, Minn. Cut-glass vessel. No. 43,267; Nov. 26; Gaz. vol. 184; p. 1053.
Carlsson, Fritz, Whiting, Ind. Broom-holder. No. 42,833; July 30; Gaz. vol. 180; p. 1373.
Carpenter, Charles U., New York, N. Y. Handle for document-files. No. 42,991; Sept. 10; Gaz. vol. 182; p. 484.
Carpenter, Charles U., New York, N. Y. Card-holder. No. 42,992; Sept. 10; Gaz. vol. 182; p. 484.
Carroll, William H., Closter, N. J. Lemon-squeezer. No. 42,499; May 14; Gaz. vol. 178; p. 566.
Carteng, Gunnar, Quincy, Ill., assignor to Atlanta Stove Works, Atlanta, Ga. Stove. No. 42,728; July 9; Gaz. vol. 180; p. 569.
Carter, George B. (See Stellwagen, Carter, and Bertram.)
Carter, William H., Needham Heights, Mass. Border for knitted and other fabrics. No. 43,336; Dec. 10; Gaz. vol. 185; p. 507.
Cary, James G., Jackson, Tenn. Combination pocket-tool. No. 43,104; Oct. 8; Gaz. vol. 183; p. 480.
Cary, James G., Jackson, Tenn. Combination pocket-tool. No. 43,268; Nov. 26; Gaz. vol. 184; p. 1053.
Case, Francis M., Canton, assignor to The Hoover-Suction Sweeper Company, New Berlin, Ohio. Casing for carpet sweepers and cleaners. No. 42,415; Apr. 23; Gaz. vol. 177; p. 1019.
Casey, Charles L., Cambridge, Ohio. Teapot. No. 42,957; Sept. 3; Gaz. vol. 182; p. 222.
Casson, Henry, *et al.* (See Glass, Sidney, assignor.)
Caverno, Xenophon, Kewanee, Ill. Pump and engine base. No. 43,032; Sept. 24; Gaz. vol. 182; p. 940.
Central Oil & Gas Stove Company. (See Wilder and White, assignors.)
Chalmers Motor Company. (See Dunham, George W., assignor.)
Chance Brothers and Co. (See Chance, Edward F., assignor.)
Chance, Edward F., Martin, assignor to Chance Brothers and Co., Limited, Glass Works, near Birmingham, England. Plate-glass. No. 42,523; May 14; Gaz. vol. 178; p. 571.
Chance, Edward F., Sandford St. Martin, assignor to Chance Brothers and Co. Limited, Glass Works, near Birmingham, England. Plate-glass. No. 43,187; Oct. 29; Gaz. vol. 183; p. 1281.
Chapin, Jay, Edgewood borough, assignor to Jas. H. Matthews & Co., Pittsburgh, Pa. Sign. No. 42,958; Sept. 3; Gaz. vol. 182; p. 222.
Chapman, Charles M., Mendham township, Morris county, N. J. Emblem. No. 43,352; Dec. 24; Gaz. vol. 185; p. 1025.
Charles E. Hires Co. (See Beach, Harry L., assignor.)
Charles E. Hires Company, The. (See Calvert, Frank W., assignor.)
Cincinnati Coffin Company, The. (See Orr, John F., assignor.)
Clark, Albert C., assignor to A. C. Clark & Company, Chicago, Ill. Frame or stand for anesthetic-administering apparatus. No. 43,188; Oct. 29; Gaz. vol. 183; p. 1281.
Clark, Theodore P., Akron, Ohio. Automobile-tire. No. 43,033; Sept. 24; Gaz. vol. 182; p. 940.
Claus, Emil A. (See Claussen and Claus.)
Claussen, Edward E., and E. A. Claus, Hartford, Conn., assignors to Public Service Cup Company, New York, N. Y. Paper cup. No. 42,500; May 14; Gaz. vol. 178; p. 566.
Clemens, John E., Pampa, Wash. Cover for tobacco-pipes. No. 42,165; Feb. 13; Gaz. vol. 175; p. 520.
Clemmer, George B., Trenton, N. J. Condiment-holder. No. 43,189; Oct. 29; Gaz. vol. 183; p. 1281.
Cleveland, Charles E., Fond du Lac, Wis. Street-lamp. No. 42,434; Apr. 30; Gaz. vol. 177; p. 1272.
Codman, William C., assignor to Gorham Manufacturing Company, Providence, R. I. Handle for spoons, forks, or similar articles. No. 42,729; July 9; Gaz. vol. 180; p. 569.
Codman, William C., assignor to Gorham Manufacturing Company, Providence, R. I. Handle for spoons, forks, or similar articles. No. 42,993; Sept. 10; Gaz. vol. 182; p. 485.
Codman, William C., assignor to Gorham Manufacturing Company, Providence, R. I. Handle for spoons, forks, or similar articles. No. 43,298; Dec. 3; Gaz. vol. 185; p. 220.
Cody, George, New York, N. Y. Plumber's trap. No. 42,315; Mar. 19; Gaz. vol. 176; p. 726.
Cohen, Benjamin, New York, N. Y. Rug. No. 42,685; July 2; Gaz. vol. 180; p. 292.
Cohn, Samuel, New York, N. Y. Label-blank. No. 42,930; Aug. 27; Gaz. vol. 181; p. 1049.
Colburn, Serenus M. (See Mitchell and Colburn.)
Colby, Edward H., assignor to Towle Manufacturing Company, Newburyport, Mass. Handle for spoons or analogous articles. No. 42,663; June 25; Gaz. vol. 179; p. 1079.
Collins, George W., Holyoke, Mass. Chair. No. 42,618; June 18; Gaz. vol. 179; p. 825.
Collins, Isaac J., Lancaster, Ohio. Pitcher or can. Nos. 42,269–70; Mar. 12; Gaz. vol. 176; p. 498.
Colonial Electric Car Co. (See Storms, William E., assignor.)
Columbian Cutlery Company. (See Stewart, Walter G., assignor.)
Conger, Charles A., Oakland, Cal. Condiment-shaker. No. 42,271; Mar. 12; Gaz. vol. 176; p. 498.
Cooley, Proctor P., assignor to Culter & Proctor Stove Company, Peoria, Ill. Stove. No. 42,931; Aug. 27; Gaz. vol. 181; p. 1049.
Cooperative Foundry Company. (See Kennedy and King, assignors.)
Copper Clad Malleable Range Company. (See Scruggs, Loyd, assignor.)
Corbin Cabinet Lock Company, The. (See Baldwin, Carlisle H., assignor.)
Cordley, Henry G., Glen Ridge, N. J. Liquid cooler and dispenser. No. 42,166; Feb. 13; Gaz. vol. 175; p. 520.
Cordley, Henry G., Glen Ridge, N. J. Liquid cooler and dispenser. No. 42,959; Sept. 3; Gaz. vol. 182; p. 223.
Cory, Fred P., assignor to Farmers' Handy Wagon Co., Saginaw, Mich. Retaining-stake for silos. No. 42,834; July 30; Gaz. vol. 180; p. 1373.
Covert, Stanley S., Montclair, N. J. Fireplace-throat. No. 42,912; Aug. 20; Gaz. vol. 181; p. 798.
Crane & Breed Manufacturing Company, The. (See Blesch, Charles, assignor.)
Crawford, Thomas J., and K. J. Atkinson, Omaha, Nebr. Mopping-cabinet. No. 42,835; July 30; Gaz. vol. 180; p. 1373.

Alphabetical list of patentees of designs—Continued.

Cress, Leonidas H., West Newton, assignor to Federal Tool Company, Everett, Mass. Knife. Nos. 42,619–20; June 18; Gaz. vol. 179; p. 825.
Cribben & Sexton Company. (See Harter, Augustus F., assignor.)
Cronk, Harrison T., New York, N. Y. Closet-bowl. No. 43,269; Nov. 26; Gaz. vol. 184; p. 1053.
Crosett, Robert, assignor to W. H. Owen, New York, N. Y. Carton. No. 43,190; Oct. 29; Gaz. vol. 183; p. 1281.
Crowell, Gilbert L., Jr., Arlington, N. J., assignor to Dominick & Haff, New York, N. Y. Spoon, fork, or similar article. No. 42,458; May 7; Gaz. vol. 178; p. 293.
Crowell, Gilbert L., Jr., Arlington, N. J., assignor to Dominick & Haff, New York, N. Y. Spoon, fork, or similar article. No. 42,836; July 30; Gaz. vol. 180; p. 1374.
Culter & Proctor Stove Company. (See Cooley, Proctor P., assignor.)
Curley, Terence F., New York, N. Y. Handle. No. 43,136; Oct. 15; Gaz. vol. 183; p. 759.
Curran, John J., New York, N. Y. Counter. No. 42,686; July 2; Gaz. vol. 180; p. 292.
Curtis, Augustus D., Chicago, Ill., assignor to National X-Ray Reflector Company. Reflector holder-bowl for lighting-fixtures. No. 42,573; June 4; Gaz. vol. 179; p. 262.
Curtiss, George E., New Britain, Conn. Inverted-glass holder. Nos. 42,533–4; May 21; Gaz. vol. 178; p. 858.
D'Olier, Henry, Jr., Philadelphia, Pa., assignor, by mesne assignments, to General Electric Company. Reflector and attachment. No. 42,961; Sept. 3; Gaz. vol. 182; p. 223.
Dailey, Clifford, New York, N. Y. Locket. Nos. 42,386–7; Apr. 9; Gaz. vol. 177; p. 500.
Dailey, Clifford, New York, N. Y. Locket. No. 42,730; July 9; Gaz. vol. 180; p. 569.
Dake, Charles W., and J. E. Kilker, assignors to Pyle National Electric Headlight Company, Chicago, Ill. Casing for motors and generators. No. 42,316, Mar. 19; Gaz. vol. 176; p. 726.
Danielson, Charles H., Fallon, Nev. Combined ring and loop for harness. No. 42,731; July 9; Gaz. vol. 180; p. 570.
Davenport, Harmon F., assignor to The Brunswick-Balke-Collender Co., Chicago, Ill. Cue-rack. No. 42,353; Mar. 26; Gaz. vol. 176; p. 1047.
Davis, Bethuel M., Chicago, Ill. Coin-holder. No. 42,535; May 21; Gaz. vol. 178; p. 859.
Davis, Clyde M., assignor to American Sign Company, Kalamazoo, Mich. Sign. No. 42,837; July 30; Gaz. vol. 180; p. 1374.
Davis, Jacob E., Ironton, Ohio. Gas heating-stove. No. 42,845; Aug. 6; Gaz. vol. 181; p. 245.
Dawes, John L., Pittsburgh, Pa. Advertising or sign structure. No. 43,353; Dec 24; Gaz. vol. 185; p. 1025.
Dawley, Herbert M., Buffalo, N. Y., assignor to The Adams & Westlake Company. Body for automobile-headlights. No. 42,794; July 16; Gaz. vol. 180; p. 854.
De Ajuria, Isabella T., Glen Ridge, N. J. Rack. No. 43,080; Oct. 1; Gaz. vol. 183; p. 203.
De Vilbiss, Thomas A., Toledo, Ohio. Frame for air-brushes. No. 42,272; Mar. 12; Gaz. vol. 176; p. 498.
Dean Electric Company. (See Dean, William W., assignor.)
Dean Electric Company, The. (See Manson, Ray H., assignor.)
Dean, William W., North Ridgeville, assignor to The Dean Electric Company, Elyria, Ohio. Automobile-horn. No. 42,559; May 28; Gaz. vol. 178; p. 1127.
Delson, Alexander C., Chicago, Ill. Neck or chest protector. No. 42,082; Jan. 9; Gaz. vol. 174; p. 570.
Demer, Frank, Great Bend, Pa. Glass vessel or similar article. No. 43,270; Nov. 26; Gaz. vol. 184; p. 1053.
Deming, William L., Salem, Ohio. Score-card. No. 43,402; Dec. 31; Gaz. vol. 185; p. 1357.
Derby, James C., Concord, N. H. Brooch. No. 43,243; Nov. 12; Gaz. vol. 184; p. 529.
Desmond, John, Wilmette, Ill. Pump-casing. No. 43,271; Nov. 26; Gaz. vol. 184; p. 1054.
Dieges, Charles J., New York, N. Y. Plaque. No. 43,034; Sept. 24; Gaz. vol. 182; p. 941.
Display Vending Co. (See Whitmore, Frederick C., assignor.)
Disston, Henry, assignor to Henry Disston & Sons, Incorporated, Philadelphia, Pa. Saw-handle. No. 42,960; Sept. 3; Gaz. vol. 182; p. 223.
Disston, William, assignor to Henry Disston & Sons, Incorporated, Philadelphia, Pa. Level. Nos. 43,191–2; Oct. 29; Gaz. vol. 183; pp. 1281–2.
Divine, Charles A. (See Mason, Richard F., assignor.)
Doddridge, James M. and W. I., Milton, Ind. Lining for graves. No. 42,097; Jan. 16; Gaz. vol. 174; p. 813.
Doddridge, Wilbur I. (See Doddridge, James M. and W. I.)
Dominick & Haff. (See Crowell, Gilbert L., Jr., assignor.)
Dorsey Manufacturing Company. (See Roberts, Henry P., assignor.)
Doten-Dunton Desk Co. (See Dunton, Kervin R., assignor.)
Douglas, William H., Belleville, N. J. Front-axle housing for vehicles. No. 42,317; Mar. 19; Gaz. vol. 176; p. 726.
Douglas, William H., Belleville, N. J. Vehicle-body. Nos. 42,354–5; Mar. 26; Gaz. vol. 176; p. 1047.
Dowse, William B. H., Newton, Mass. Spoon or fork. No. 42,273; Mar. 12; Gaz. vol. 176; p. 498.
Drullard, Martha B., Los Angeles, Cal. Bonnet. No. 42,913; Aug. 20; Gaz. vol. 181; p. 799.
Ducsay, István, Canonsburg, Pa. Picture-hanger. No. 42,105; Jan. 23; Gaz. vol. 174; p. 1007.
Duenkel, Charles L., East Orange, N. J. Aeropinwheel. No. 42,811; July 23; Gaz. vol. 180; p. 1119.
Duncan & Miller Glass Company. (See Miller, John E., assignor.)
Dunham, George W., assignor to Chalmers Motor Company, Detroit, Mich. Automobile-body. No. 42,732; July 9; Gaz. vol. 180; p. 570.
Dunton, Kervin R., Winchester, Mass. Chair. Nos. 42,932–3; Aug. 27; Gaz. vol. 181; p. 1049.
Dunton, Kervin R., assignor to Doten-Dunton Desk Co., Boston, Mass. Desk. No. 42,388; Apr. 9; Gaz. vol. 177; p. 500.
E. Ingraham Co., The. (See Stockton, Elmer E., assignor.)
E. I. Horsman Co. (See Horsman, Edward I., Jr., assignor.)
E. R. Thomas Motor Car Company. (See Sugden, John L., assignor.)
Eagle Glass & Manufacturing Company. (See Paull, James, assignor.)
Eastern Bottlers Supply Company. (See Sonn, Edwin J., assignor.)
Eastwood-Park Company. (See Ford, Kelsie B., assignor.)
Ebbinghaus, Ernst, New York, N. Y. Flying and gliding device. No. 42,501; May 14; Gaz. vol. 178; p. 566.
Ebelhare, William H., Syracuse, N. Y., and J. A. Freund, Waltham, Mass., assignors to The Keystone Watch Case Company, Philadelphia, Pa. Bridge-plate for watch-movements. No. 42,574; June 4; Gaz. vol. 179; p. 262.
Ebeling, Phillip, assignor to Fostoria Glass Company, Moundsville, W. Va. Drinking vessel or similar article. No. 42,356; Mar. 26; Gaz. vol. 176; p. 1047.
Ebeling, Phillip, assignor to Fostoria Glass Company, Moundsville, W. Va. Candle-lamp. No. 42,389; Apr. 9; Gaz. vol. 177; p. 500.
Edens, Henry N., assignor to The John Lauson Manufacturing Company, New Holstein, Wis. Gas-engine casing. No. 42,962; Sept. 3; Gaz. vol. 182; p. 223.
Edison, Thomas A. (See Rubino, Joseph, assignor.)
Edison, Thomas A., Llewellyn Park, West Orange, N. J. Cabinet. No. 42,934; Aug. 27; Gaz. vol. 181; p. 1050.
Edmiston, Hugh C. (See Lovatt, Albert E., assignor.)
Edmiston, Hugh C., Orange, N. J. Match-box and candle-holder. No. 42,318; Mar. 19; Gaz. vol. 176; p. 726.
Edmunds & Jones Mfg. Co., The. (See Godley, Charles E., assignor.)
Eginton, Arthur V., assignor to International Silver Company, Meriden, Conn. Casket-trimming. No. 43,337; Dec. 10; Gaz. vol. 185; p. 507.
Eichhorn, Jacob C., assignor to The Victor Jar Company, Detroit, Mich. Jar or receptacle. No. 43,137; Oct. 15; Gaz. vol. 183; p. 759.
Eick, Otto, St. Louis, Mo. Rubber brush. No. 42,390; Apr. 9; Gaz. vol. 177; p. 500.
Eick, Otto, St. Louis, Mo. Rubber brush. Nos. 42,733–7; July 9; Gaz. vol. 180; p. 570.
Electro Dental Manufacturing Company. (See Wilford, Edward B., assignor.)
Elliot, William A., Yonkers, N. Y., assignor to Bigelow Carpet Company. Carpet. No. 42,125; Feb. 6; Gaz. vol. 175; p. 238.
Elliot, William A., Yonkers, N. Y., assignor to Bigelow Carpet Company. Rug-border. No. 42,126; Feb. 6; Gaz. vol. 175; p. 238.
Elliot, William A., Yonkers, N. Y., assignor to Bigelow Carpet Company. Carpet. Nos. 42,274–5; Mar. 12; Gaz. vol. 176; p. 499.
Elliot, William A., Yonkers, N. Y., assignor to Bigelow Carpet Company. Carpet. Nos. 42,560–2; May 28; Gaz. vol. 178; pp. 1127–8.
Elliot, William A., Yonkers, N. Y., assignor to Bigelow Carpet Company. Carpet. No. 42,868; Aug. 13; Gaz. vol. 181; p. 513.
Elliot, William A., Yonkers, N. Y., assignor to Bigelow Carpet Company. Rug. No. 42,869; Aug. 13; Gaz. vol. 181; p. 514.
Elliot, William A., Yonkers, N. Y., assignor to Bigelow Carpet Company. Carpet. No. 42,870; Aug. 13; Gaz. vol. 181; p. 514.
Elliot, William A., Yonkers, N. Y., assignor to Bigelow Carpet Company. Carpet. No. 43,035; Sept. 24; Gaz. vol. 182; p. 941.
Elliot, William A., Yonkers, N. Y., assignor to Bigelow Carpet Company. Rug. Nos. 43,354–6; Dec. 24; Gaz. vol. 185; p. 1026.
Elms & Sellon. (See Henry, William D., assignor.)
Elwell, Lewis M., Zanesville, Ohio. Monument. No. 42,664; June 25; Gaz. vol. 179; p. 1079.
Engel, Jacob A., Syracuse, N. Y. Hose-display bracket. No. 42,914; Aug. 20; Gaz. vol. 181; p. 799.
Engelhardt & Sons, F. (See Engelhardt, Walter L., assignor.)

Alphabetical list of patentees of designs—Continued.

Engelhardt & Sons, F. (See Nelson, Nels J., assignor.)
Engelhardt, Walter L., assignor to F. Engelhardt & Sons, St. Johnsville, N. Y. Piano-case. No. 43,357; Dec. 24; Gaz. vol. 185; p. 1026.
Ennis, John J., and W. T. Hohnhorst, Covington, Ky. Metal door-mat. No. 42,380; Apr. 2; Gaz. vol. 177; p. 221.
Erret, Joseph, Cleveland, Ohio. Automobile bow-rest. No. 42,276; Mar. 12; Gaz. vol. 176; p. 499.
Erskine, James L., Upper Montclair, N. J. Facial-massage device. No. 42,435; Apr. 30; Gaz. vol. 177; p. 1272.
Erskine, John O., Wellsburg, assignor to Jefferson Glass Company, Follansbee, W. Va. Lamp-shade. No. 42,319; Mar. 19; Gaz. vol. 176; p. 727.
Estate Stove Company, The. (See Kahn, Lazard, assignor.)
Estep, Edwin R., assignor, by mesne assignments, to Packard Motor Car Company, Detroit, Mich. Lamp-casing. No. 42,127; Feb. 6; Gaz. vol. 175; p. 239.
Eustis, John P., Newton, Mass. Holder-bracket. Nos. 42,197–8; Feb. 27; Gaz. vol. 175; p. 1068.
Evans, Howard S. (See Hawe and Evans.)
Fänner, Rudolf, Vienna, Austria-Hungary. Lucky-figure amulet or talisman. No. 42,167; Feb. 13; Gaz. vol. 175; p. 520.
Farmers' Handy Wagon Co. (See Cory, Fred P., assignor.)
Farr, Edward A., assignor to Manning, Bowman & Company, Meriden, Conn. Tumbler-holder. No. 42,199; Feb. 27; Gaz. vol. 175; p. 1068.
Farr, Edward A., assignor to Manning, Bowman & Company, Meriden, Conn. Dish. No. 42,200; Feb. 27; Gaz. vol. 175; p. 1069.
Farr, Edward A., assignor to Manning, Bowman & Company, Meriden, Conn. Chafing-dish stand. No. 42,277; Mar. 12; Gaz. vol. 176; p. 499.
Farr, Edward A., assignor to Manning, Bowman & Company, Meriden, Conn. Bath-room fixture. No. 42,459; May 7; Gaz. vol. 178; p. 294.
Farr, Edward A., assignor to Manning, Bowman & Company, Meriden, Conn. Chafing-dish handle. No. 42,502; May 14; Gaz. vol. 178; p. 566.
Farr, Edward A., assignor to Manning, Bowman & Company, Meriden, Conn. Chafing-dish. No. 42,563; May 28; Gaz. vol. 178; p. 1128.
Farr, Edward A., assignor to Manning, Bowman & Company, Meriden, Conn. Percolator coffee-pot. No. 42,621; June 18; Gaz. vol. 179; p. 826.
Farr, Edward A., assignor to Manning, Bowman & Company, Meriden, Conn. Percolator coffee-pot. No. 43,244; Nov. 12; Gaz. vol. 184; p. 529.
Farr, Ernest W., *et al.* (See Perrine, William E., assignor.)
Farrell, George R., Leominster, Mass. Display device. No. 42,846; Aug. 6; Gaz. vol. 181; p. 245.
Farrell, James W., Norwood, Ohio. Back for toilet mirrors, brushes, or similar articles. Nos. 43,138–9; Oct. 15; Gaz. vol. 183; pp. 759–60.
Fauser, Gustave M., New York, N. Y. Woven rug. No. 42,320; Mar. 19; Gaz. vol. 176; p. 727.
Fay, Fred W., Wellsville, N. Y. Combined shade and curtain-pole holder. No. 43,140; Oct. 15; Gaz. vol. 183; p. 760.
Federal Tool Company. (See Cress, Leonidas H., assignor.)
Fedorina, Michael, Cleveland, Ohio. Wicker or rustic chair. No. 42,524; May 14; Gaz. vol. 178; p. 571.
Fellhauer Allen Manufacturing Company. (See Allen, James M., assignor.)
Ferrall, John J., and E. Mackay, New York, N. Y. Tool for removing seals. No. 42,601; June 11; Gaz. vol. 179; p. 550.
Ferris, William D., Sterling, Ill. Hinge-leaf. No. 42,168; Feb. 13; Gaz. vol. 175; p. 520.
Fessenden and Company. (See Lohrmann, Ernst H., assignor.)
Fink, Fayette F. (See Munroe and Fink.)
Finlay, Dicks & Co. (See Guidry, Ambrose J., assignor.)
Fishel, Leslie H., New York, N. Y. Jewelry ornament. Nos. 42,252–3; Mar. 5; Gaz. vol. 176; p. 251.
Fisher, Edwin, New York, N. Y., assignor to Bigelow Carpet Company. Rug. No. 42,871; Aug. 13; Gaz. vol. 181; p. 514.
Fitzgerald, Mary P., Portland, Oreg. Stamp, picture, and post-card holder. No. 42,936; Aug. 27; Gaz. vol. 181; p. 1050.
Fletcher, Clifford C., Harrisburg, Pa. Tag. No. 43,216; Nov. 5; Gaz. vol. 184; p. 263.
Follmer, Charles J., New York, N. Y. Parasol. No. 42,503; May 14; Gaz. vol. 178; p. 566.
Ford, Kelsie B., assignor to Eastwood-Park Company, Newark, N. J. Hanger for hand-bags or similar articles. No. 42,169; Feb. 13; Gaz. vol. 175; p. 520.
Forestier, Gustave, New York, N. Y., assignor to Pacific Mills, Boston, Mass. Textile fabric or wall-paper. Nos. 42,201–3; Feb. 27; Gaz. vol. 175; p. 1069.
Foster Stove Company, The. (See Stellwagen, Carter, and Bertram, assignors.)
Fostoria Glass Company. (See Bottome, Edgar M., assignor.)
Fostoria Glass Company. (See Bottome and Marshall, assignors.)
Fostoria Glass Company. (See Ebeling, Phillip, assignor.)
Fostoria Glass Company. (See Heedy, John J., assignor.)
Francis, Graham I., Coventry, England. Cycle pedal-frame. No. 42,170; Feb. 13; Gaz. vol. 175; p. 520.
Frank & Lambert. (See Lambert, Julius J., assignor.)
Frank and Lambert. (See Loomis, Harry T., assignor.)
Frank Mossberg Company. (See Mossberg, Frank, assignor.)
Frank Tilk Ornamental Iron Works Company. (See Wight, Thomas, assignor.)
Frederick F. Ingram Company. (See Ingram, Frederick F., assignor.)
Freeman, Richard J., assignor to Pioneer Suspender Company, Overbrook, Pa. Garter. No. 43,105; Oct. 8; Gaz. vol. 183; p. 481.
Freemantle, Walter H., Oswego, N. Y. Game-board. No. 42,204; Feb. 27; Gaz. vol. 175; p. 1069.
Freund, Joseph A. (See Ebelhare and Freund.)
Frick Company. (See Oderman, Erik H., assignor.)
Friedberg, Joseph, New York, N. Y. Lamp-shade. Nos. 42,575–6; June 4; Gaz. vol. 179; p. 262.
Friedberg, Joseph, New York, N. Y. Lamp-shade. No. 42,838; July 30; Gaz. vol. 180; p. 1374.
Friedberger-Aaron Manufacturing Company. (See Goodman, Samuel N., assignor.)
Friedman, Morris, Chicago, Ill. Show-case. No. 42,106; Jan. 23; Gaz. vol. 174; p. 1007.
Friestedt, Arthur A., assignor to United States Music Company, Chicago, Ill. Note-sheet spool end. No. 43,272; Nov. 26; Gaz. vol. 184; p. 1054.
Fritchle Automobile & Battery Co., The. (See Fritchle, Oliver P., assignor.)
Fritchle, Oliver P., assignor to The Fritchle Automobile & Battery Co., Denver, Colo. Automobile-body. No. 42,073; Jan. 2; Gaz. vol. 174; p. 270.
Fritchle, Oliver P., assignor to The Fritchle Automobile and Battery Co., Denver, Colo. Vehicle-body. No. 42,278; Mar. 12; Gaz. vol. 176; p. 499.
Fritchle, Oliver P., assignor to Fritchle Automobile & Battery Company, Denver, Colo. Automobile-body. No. 42,738; July 9; Gaz. vol. 180; p. 571.
Gafinowitz, Goodman, Lawrence, Mass. Combined knife and fork. No. 42,622; June 18; Gaz. vol. 179; p. 826.
Gair, Robert, New York, N. Y. Doily. Nos. 42,254–7; Mar. 5; Gaz. vol. 176; pp. 251–2.
Gair, Robert, New York, N. Y. Box-strip. No. 42,258; Mar. 5; Gaz. vol. 176; p. 252.
Gair, Robert, New York, N. Y. Doily. No. 42,915; Aug. 20; Gaz. vol. 181; p. 799.
Gardner, Leslie A. D., Oakland, Cal. Collapsible-tube cap. No. 42,504; May 14; Gaz. vol. 178; p. 567.
Garland, Michael, Toledo, Ohio. Link. No. 42,937; Aug. 27; Gaz. vol. 181; p. 1050.
Garrison, William B., Washington, D. C. Fan. No. 42,623; June 18; Gaz. vol. 179; p. 826.
Garrison, William B., Washington, D. C. Tray or plate. Nos. 43,299–305; Dec. 3; Gaz. vol. 185; p. 221.
Garrison, William B., Washington, D. C. Crumb-tray. No. 43,403; Dec. 31; Gaz. vol. 185; p. 1357.
Gebelein, George C., Wellesley, Mass. Paper-weight and pen-rest. No. 42,391; Apr. 9; Gaz. vol. 177; p. 500.
Gee, Samuel, Providence, R. I. Number-display casing. No. 42,839; July 30; Gaz. vol. 180; p. 1374.
Gehrke, Frederick W., West Collingswood, N. J., assignor to The Horn and Brannen Manufacturing Company, Philadelphia, Pa. Shell for gas or electric-light fixtures. No. 42,963; Sept. 3; Gaz. vol. 182; p. 223.
Gehrke, Frederick W., West Collingswood, N. J., assignor to The Horn and Brannen Manufacturing Company, Philadelphia, Pa. Ornamental shell for gas and electric light fixtures. No. 43,141; Oct. 15; Gaz. vol. 183; p. 760.
Gehrke, Frederick W., West Collingswood, N. J., assignor to The Horn and Brannen Manufacturing Company, Philadelphia, Pa. Shell for gas and electric light fixtures. No. 43,273; Nov. 26; Gaz. vol. 184; p. 1054.
General Electric Company. (See D'Olier, Henry, Jr., assignor.)
General Electric Company. (See Thoré, Wendell P., assignor.)
General Gas Light Company. (See Humphrey, Alfred H., assignor.)
Gensler, Mervin A., York, Pa. Comb-cleaner. No. 42,964; Sept. 3; Gaz. vol. 182; p. 223.
Genthner, Charles M., assignor to Wincroft Stove Works, Middletown, Pa. Cooking-stove. No. 42,795; July 16; Gaz. vol. 180; p. 854.
Gibson, Cecil E., Indianapolis, Ind. Vehicle-body. No. 42,938; Aug. 27; Gaz. vol. 181; p. 1050.
Gilbert, Cornelia E., assignor to The Pantasote Company, New York, N. Y. Fabric. No. 42,416; Apr. 23; Gaz. vol. 177; p. 1019.
Gilbert, Edmund D., assignor to The S. S. White Dental Manufacturing Company, Philadelphia, Pa. Tool-handle. No. 42,321; Mar. 19; Gaz. vol. 176; p. 727.
Gill Brothers Company. (See Thompson, Russell D. A., assignor.)
Gillet, Alexis F., Omaha, Nebr. Tack-puller. No. 42,279; Mar. 12; Gaz. vol. 176; p. 499.
Gillinder & Sons. (See Booth, Kraft, assignor.)

Alphabetical list of patentees of designs—Continued.

Girl, Christian, *et al.* (See Perrine, William E., assignor.)
Glass, Sidney, Chicago, Ill., assignor of two-thirds to H. Casson, Madison, and H. B. Norton, La Crosse, Wis. Monogram-pin. No. 42,687; July 2; Gaz. vol. 180; p. 292.
Gleason-Tiebout Glass Company, The. (See Haley, Reuben, assignor.)
Godley, Charles E., assignor to The Edmunds & Jones Mfg. Co., Detroit, Mich. Lamp. No. 43,142; Oct. 15; Gaz. vol. 183; p. 760.
Goldman & Co., M. (See Hacker, Emanuel M., assignor.)
Goldthorpe, Arthur E., assignor to The Ashley & Bailey Company, Paterson, N. J. Textile fabric. No. 42,739; July 9; Gaz. vol. 180; p. 571.
Goodman, Samuel N., assignor, by mesne assignments, to Friedberger-Aaron Manufacturing Company, Philadelphia, Pa. Lace edging. Nos. 42,740–6; July 9; Gaz. vol. 180; p. 571.
Goodyear, Adolph O., East Cleveland, Ohio. Bridge for violins or similar stringed instruments. No. 43,358; Dec. 24; Gaz. vol. 185; p. 1027.
Goodwin, John B., Baltimore, Md., assignor to The Sovereign Grand Lodge of The Independent Order of Odd Fellows. Official certificate. No. 42,128; Feb. 6; Gaz. vol. 175; p. 239.
Goodwin, Margaret B., Denver, Colo. Foot-rest for radiators and registers. No. 43,274; Nov. 26; Gaz. vol. 184; p. 1054.
Gorham Manufacturing Company. (See Bender, Theodore, assignor.)
Gorham Manufacturing Company. (See Codman, William C., assignor.)
Gorman, Bernard D. (See Pearson and Gorman.)
Goughnour, Charles L., assignor to The United Electric Company, Canton, Ohio. Vacuum-cleaner. Nos. 42,747–8; July 9; Gaz. vol. 180; p. 572.
Graves, George W., assignor to Cadillaqua, Detroit, Mich. Badge, emblem, or similar article. No. 43,359; Dec. 24; Gaz. vol. 185; p. 1027.
Gray, William, Amesbury, Mass. Casing for dynamos and regulators. No. 43,036; Sept. 24; Gaz. vol. 182; p. 941.
Great Western Manufacturing Co. (See Lonn, Edward J., assignor.)
Gredelue, Adrian, New York, N. Y., assignor to A. Michaut, Baccarat, France. Glass or similar article. Nos. 42,357–8; Mar. 26; Gaz. vol. 176; p. 1047.
Greenburg, George G., Chicago, Ill., assignor to Union Trust Company, Jersey City, N. J. Paper-weight. No. 43,306; Dec. 3; Gaz. vol. 185; p. 221.
Grelle, Charles E., Portland, Oreg. Lamp-post. Nos. 42,280–5; Mar. 12; Gaz. vol. 176; p. 500.
Grelle, Charles E., Portland, Oreg. Lamp-post. No. 42,688; July 2; Gaz. vol. 180; p. 292.
Grelle, Charles E., Portland, Oreg. Post-bracket. No. 43,037; Sept. 24; Gaz. vol. 182; p. 941.
Grelle, Charles E., Portland, Oreg. Lamp-post. Nos. 43,338–9; Dec. 10; Gaz. vol. 185; p. 507.
Griffin, Robert B., New York, N. Y. Wall-covering. Nos. 42,129–37; Feb. 6; Gaz. vol. 175; pp. 239–40.
Griffith, Benjamin M., and W. T. McCullough, Pittsburgh, Pa. Frame for the operating mechanism of churns. No. 43,275; Nov. 26; Gaz. vol. 184; p. 1055.
Gronert, William J., Elkhart, Ind. Cornet. No. 43,276; Nov. 26; Gaz. vol. 184; p. 1055.
Grosvenor, Jonathan P., Worcester, Mass. Boot. No. 42,322; Mar. 19; Gaz. vol. 176; p. 727.
Guidry, Ambrose J., assignor to Finlay, Dicks & Co. Ltd., New Orleans, La. Lock-jar. No. 42,965; Sept. 3; Gaz. vol. 182; p. 224.
Gunder, Jeane D., assignor to The J. A. Pozzoni Pharmacal Company, Chicago, Ill. Puff-box. No. 42,749; July 9; Gaz. vol. 180; p. 572.
Gunthel, Alfred B., Sea Cliff, N. Y. Drinking vessel. No. 42,994; Sept. 10; Gaz. vol. 182; p. 485.
Gunthel, Alfred B., Sea Cliff, N. Y. Goblet or similar article. Nos. 42,995–43,000; Sept. 10; Gaz. vol. 182; pp. 485–6.
Gurske, Anna C., Omaha, Nebr. Sponge-holder. No. 43,038; Sept. 24; Gaz. vol. 182; p. 941.
Gutman, David H., Philadelphia, Pa. Velocipede. No. 42,916; Aug. 20; Gaz. vol. 181; p. 799.
H. L. Brown Fence and Manufacturing Company, The. (See Brown, Herbert L., assignor.)
Hacker, Emanuel M., assignor of one-half to M. Goldman & Co., New York, N. Y. Textile fabric. No. 42,138; Feb. 6; Gaz. vol. 175; p. 240.
Haff, Howell W. (See Lowe, Haff, and Andrick.)
Hagen, Claude L., New York, N. Y. Stage-screw. No. 42,602; June 11; Gaz. vol. 179; p. 550.
Halderman, Bela R., Franklin Grove, Ill. Cigar-ash holder. No. 42,603; June 11; Gaz. vol. 179; p. 550.
Haley, Reuben, Beaver, Pa., assignor to Jefferson Glass Company, Follansbee, W. Va. Lamp-shade. Nos. 42,098–9; Jan. 16; Gaz. vol. 174; pp. 813–14.
Haley, Reuben, Beaver, Pa., assignor to The Gleason-Tiebout Glass Company, Brooklyn, N. Y. Artificial-light shade. Nos. 42,847–9; Aug. 6; Gaz. vol. 181; p. 246.
Haley, Reuben, Beaver, assignor to United States Glass Company, Pittsburgh, Pa. Neck and stopper for glass articles. No. 43,039; Sept. 24; Gaz. vol. 182; p. 942.
Haley, Reuben, Beaver, assignor to United States Glass Company, Pittsburgh, Pa. Foot for glass articles. No. 43,040; Sept. 24; Gaz. vol. 182; p. 942.
Haley, Reuben, Beaver, assignor to United States Glass Company, Pittsburgh, Pa. Glass dish. No. 43,041; Sept. 24; Gaz. vol. 182; p. 942.
Haley, Reuben, Beaver, assignor to United States Glass Company, Pittsburgh, Pa. Glass vessel. No. 43,042; Sept. 24; Gaz. vol. 182; p. 942.
Hall, Frank H., Yonkers, assignor to Strauss Manufacturing Company, New York, N. Y. Statuette. No. 42,624; June 18; Gaz. vol. 179; p. 826.
Hamilton, Samuel W., Chicago, Ill. Poultry-coop. No. 43,277; Nov. 26; Gaz. vol. 184; p. 1055.
Hamm, William S., Hubbard Woods, Ill., assignor to The Adams & Westlake Company, Chicago, Ill. Lamp. No. 42,796; July 16; Gaz. vol. 180; p. 854.
Hamm, William S., Hubbard Woods, assignor to The Adams & Westlake Company, Chicago, Ill. Pendent lamp. No. 43,193; Oct. 29; Gaz. vol. 183; p. 1282.
Hamm, William S., Hubbard Woods, assignor to The Adams & Westlake Company, Chicago, Ill. Lamp. No. 43,217; Nov. 5; Gaz. vol. 184; p. 263.
Hamm, William S., Hubbard Woods, and R. M. Newbold, assignors to The Adams & Westlake Company, Chicago, Ill. Automobile-lamp. No. 42,083; Jan. 9; Gaz. vol. 174; p. 570.
Hammel Riglander & Co. (See Riglander, Moses M., assignor.)
Handol, Jacob G., New York, N. Y. Lace. No. 42,564; May 28; Gaz. vol. 178; p. 1128.
Hansen, Angie L., Chicago, Ill. Acetylene-lamp. No. 42,917; Aug. 20; Gaz. vol. 181; p. 799.
Hansen, Augie L., Chicago, Ill. Acetylene-lamp. No. 42,460; May 7; Gaz. vol. 178; p. 294.
Hansen, Marius H., Chicago, Ill. Rim for scale-dials. No. 42,359; Mar. 26; Gaz. vol. 176; p. 1047.
Harden, James, Jr., New York, N. Y. Display-case. No. 42,461; May 7; Gaz. vol. 178; p. 294.
Harding, Thomas, Newark, N. J., assignor to J. L. Sommer Manufacturing Co. Combined bottle opener and pick. No. 43,278; Nov. 26; Gaz. vol. 184; p. 1055.
Harter, Augustus F., assignor to Cribben & Sexton Company, Chicago, Ill. Cooking-range. No. 42,797; July 16; Gaz. vol. 180; p. 854.
Harter, Augustus F., assignor to Cribben & Sexton Company, Chicago, Ill. Heating-stove. No. 42,798; July 16; Gaz. vol. 180; p. 855.
Harter, Augustus F., assignor to Cribben & Sexton Company, Chicago, Ill. Cooking-range. Nos. 42,799–800; July 16; Gaz. vol. 180; p. 855.
Harter, Augustus F., assignor to Cribben & Sexton Company, Chicago, Ill. Heating-stove. No. 42,801; July 16; Gaz. vol. 180; p. 855.
Harter, Augustus F., assignor to Cribben & Sexton Company, Chicago, Ill. Cooking-range. No. 42,802; July 16; Gaz. vol. 180; p. 856.
Harter, Augustus F., assignor to Cribben & Sexton Company, Chicago, Ill. Combined cooking and heating stove. No. 42,803; July 16; Gaz. vol. 180; p. 856.
Hartford Carpet Corporation, The. (See Pegel, Julius G., assignor.)
Hartford Carpet Corporation, The. (See Sayers, William E., assignor.)
Hass, Paul E., New York, N. Y. Bank-check. No. 42,750; July 9; Gaz. vol. 180; p. 572.
Haviland, Charles E., Limoges, France. Handle for dishes or bowls or similar articles of tableware. No. 42,392; Apr. 9; Gaz. vol. 177; p. 500.
Haviland, Charles E., Limoges, France. Sauce-boat or similar article. No. 42,577; June 4; Gaz. vol. 179; p. 263.
Haviland, Theodore, Limoges, France. Plate. No. 43,307; Dec. 3; Gaz. vol. 185; p. 222.
Hawe, William F. M., and H. S. Evans, assignors to Macbeth-Evans Glass Company, Pittsburgh, Pa. Lamp-shade. No. 43,043; Sept. 24; Gaz. vol. 182; p. 943.
Hawkins, Agnes, Los Angeles, Cal. Match-box. No. 43,218; Nov. 5; Gaz. vol. 184; p. 263.
Hawthorne, Ellsworth A., Bridgeport, Conn. Lamp. Nos. 43,143–4; Oct. 15; Gaz. vol. 183; p. 760.
Hay, Peter D., Detroit, Mich. Trap. No. 43,145; Oct. 15; Gaz. vol. 183; p. 761.
Hayward, Henry E., Philadelphia, Pa., assignor to Link-Belt Company, Chicago, Ill. Chain. No. 42,436; Apr. 30; Gaz. vol. 177; p. 1273.
Heath, Alfred C., Newark, N. J. Cigar-lighter. No. 42,462; May 7; Gaz. vol. 178; p. 294.
Heedy, John J., assignor to Fostoria Glass Company, Moundsville, W. Va. Drinking vessel or similar article. No. 42,850; Aug. 6; Gaz. vol. 181; p. 246.
Heidl, Friedrich, Yonkers, assignor to Alexander Smith & Sons Carpet Company, New York, N. Y. Rug. No. 42,578; June 4; Gaz. vol. 179; p. 263.
Heimberg, Samuel, New York, N. Y. Tobacco-pipe. No. 42,939; Aug. 27; Gaz. vol. 181; p. 1051.
Heisey & Co., A. H. (See Heisey, Thomas C., assignor.)
Heisey & Co., A. H. (See Sanford, Andrew J., assignor.)
Heisey, Thomas C., Newark, Ohio. Glass vessel. Nos. 42,751–2; July 9; Gaz. vol. 180; p. 572.

Alphabetical list of patentees of designs—Continued.

Heisey, Thomas C., assignor to A. H. Heisey & Co., Newark, Ohio. Pitcher. No. 42,665; June 25; Gaz. vol. 179; p. 1079.
Hennicke, Charles A., Buffalo, N. Y. Wagon-stake. No. 43,346; Dec. 17; Gaz. vol. 185; p. 808.
Henry Disston & Sons. (See Disston, Henry, assignor.)
Henry Disston & Sons. (See Disston, William, assignor.)
Henry, Frank R., assignor to Majestic Manufacturing Company, St. Louis, Mo. Stove-front. No. 42,393; Apr. 9; Gaz. vol. 177; p. 501.
Henry, William D., Manhasset, assignor to Elms & Sellon, New York, N. Y. Textile fabric. No. 42,812; July 23; Gaz. vol. 180; p. 1119.
Hensel Silk Manufacturing Company, The. (See Müller, Herman J., assignor.)
Hershey, Eusebius E., assignor to Vacuum Cleaner Manufacturing Company, Philadelphia, Pa. Vacuum-cleaner. No. 42,753; July 9; Gaz. vol. 180; p. 573.
Hertzberg, Harry. (See Low and Hertzberg.)
Hewitt, Mossalanus S., Georgetown, Tex. Combined knife and fork. No. 43,044; Sept. 24; Gaz. vol. 182; p. 943.
Heyne, Leon. (See Mindum and Heyne.)
Hiener, Louis, Wheeling, W. Va. Holder for safety-razors. No. 42,940; Aug. 27; Gaz. vol. 181; p. 1051.
Hilden, Charles F., Oakland, Cal. Advertising-tablet. No. 43,045; Sept. 24; Gaz. vol. 182; p. 943.
Hill, Francis G., Columbus, Ind. Toilet-stand. No. 42,185; Feb. 20; Gaz. vol. 175; p. 822.
Hillbom, Henrik, assignor to R. Wallace & Sons Mfg. Co., Wallingford, Conn. Spoon, fork, or similar article. No. 42,966; Sept. 3; Gaz. vol. 182; p. 224.
Hillbom, Henrik, assignor to R. Wallace & Sons Mfg. Co., Wallingford, Conn. Tea or coffee pot or similar article. No. 43,219; Nov. 5; Gaz. vol. 184; p. 263.
Hillbom, Henrik, assignor to R. Wallace & Sons Mfg. Co., Wallingford, Conn. Spoon, fork, or similar article. No. 43,279; Nov. 26; Gaz. vol. 184; p. 1056.
Hine, Cicero, assignor to The Brunswick Balke Collender Co., Chicago, Ill. Game-table. Nos. 42,464–70; May 7; Gaz. vol. 178; pp. 294–5.
Hine, Cicero, and J. C. Schank, assignors to The Brunswick Balke Collender Co., Chicago, Ill. Game-table. No. 42,463; May 7; Gaz. vol. 178; p. 294.
Hirschfeld, Henry W., assignor to International Silver Co., Meriden, Conn. Plate, platter, tray, or similar article. No. 43,404; Dec. 31; Gaz. vol. 185; p. 1357.
Hirschberg, Hermann M., New York, N. Y. Globe for arc-lamps. No. 42,941; Aug. 27; Gaz. vol. 181; p. 1051.
Hobrecht, Joseph C., Sacramento, Cal. Lamp-post. No. 42,967; Sept. 3; Gaz. vol. 182; p. 224.
Hoch, Ernest, New York, N. Y., assignor to Pacific Mills, Boston, Mass. Textile fabric or wall-paper. Nos. 42,205–10; Feb. 27; Gaz. vol. 175; pp. 1069–70.
Hoch, Ernest, New York, N. Y., assignor to Pacific Mills, Boston, Mass. Textile fabric or wall-paper. No. 42,323; Mar. 19; Gaz. vol. 176; p. 727.
Hoch, Ernest, New York, N. Y., assignor to Pacific Mills, Boston, Mass. Textile fabric or wall-paper. Nos. 42,813–15; July 23; Gaz. vol. 180; pp. 1119–20.
Hoefler, George C., assignor to The Andrew B. Hendryx Co., New Haven, Conn. Bird-cage. No. 43,280; Nov. 26; Gaz. vol. 184; p. 1056.
Hoffmann, Edward C., Scribner, Nebr. Reinforced kettle. No. 43,106; Oct. 8; Gaz. vol. 183; p. 481.
Hohnhorst, William T. (See Ennis and Hohnhorst.)
Holmberg, Gustaf, Omaha, Nebr. Machine-stand. No. 42,625; June 18; Gaz. vol. 179; p. 826.
Hoover-Suction Sweeper Company, The. (See Case, Francis M., assignor.)
Hoppmann, Frederick W., Ottumwa, Iowa. Portable confessional. No. 43,176; Oct. 22; Gaz. vol. 183; p. 1012.
Horn and Brannen Manufacturing Company, The. (See Gehrke, Frederick W., assignor.)
Horsman, Edward I., Jr., assignor to E. I. Horsman Co., New York, N. Y. Doll. Nos. 42,324–5; Mar. 19; Gaz. vol. 176; pp. 727–8.
Horsman, Edward I., Jr., assignor to E. I. Horsman Co., New York, N. Y. Toy dog. No. 42,754; July 9; Gaz. vol. 180; p. 573.
Horsman, Edward I., Jr., assignor to E. I. Horsman Co., New York, N. Y. Toy cat. No. 42,755; July 9; Gaz. vol. 180; p. 573.
Horvath, Steven, Baxter, W. Va. Drinking-cup. No. 42,326; Mar. 19; Gaz. vol. 176; p. 728.
Hotchkin, Paul M., Chicago, Ill., assignor to National X-Ray Reflector Company. Attachment for reflector holder-bowls for lighting-fixtures. No. 42,579; June 4; Gaz. vol. 179; p. 263.
Hotchkin, Paul M., Chicago, Ill., assignor to National X-Ray Reflector Company. Bracket for reflectors. No. 42,580; June 4; Gaz. vol. 179; p. 263.
Hotchkiss, Isaac E., Kensington, Conn. Display-stand. No. 42,804; July 16; Gaz. vol. 180; p. 856.
Hottal, Frank K. (See Bogart and Hottal.)
Huchberger, Benjamin, Chicago, Ill. Ring-setting for precious stones. No. 42,286; Mar. 12; Gaz. vol. 176; p. 501.
Hudnut, Richard A., New York, N. Y. Key-handle. No. 42,942; Aug. 27; Gaz. vol. 181; p. 1051.
Huey, Leslie P., St. Louis, Mo. Knife-handle. No. 43,194; Oct. 29; Gaz. vol. 183; p. 1282.
Huff, Russell, assignor to Packard Motor Car Company, Detroit, Mich. Manifold for internal-combustion engines. No. 42,581; June 4; Gaz. vol. 179; p. 263.
Huffman, Charles F., Mason City, Iowa. Automobile-body. No. 43,046; Sept. 24; Gaz. vol. 182; p. 943.
Hughes, William, Taunton, Mass. Eyelet. No. 42,100; Jan. 16; Gaz. vol. 174; p. 814.
Huml, Alois, Cleveland, Ohio. Hat-pin guard. No. 42,604; June 11; Gaz. vol. 179; p. 551.
Humphrey, Alfred H., New York, N. Y., assignor to General Gas Light Company, Kalamazoo, Mich. Gas-lamp. No. 43,001; Sept. 10; Gaz. vol. 182; p. 487.
Humphreys, Charles F., Lancaster, assignor to Armstrong Cork Company, Pittsburgh, Pa. Linoleum or oil-cloth. No. 42,211; Feb. 27; Gaz. vol. 175; p. 1070.
Humphreys, Charles F., Lancaster, assignor to Armstrong Cork Company, Pittsburgh, Pa. Oil-cloth or linoleum. No. 42,394; Apr. 9; Gaz. vol. 177; p. 501.
Humphreys, Charles F., assignor to Armstrong Cork Company, Lancaster, Pa. Linoleum, oil-cloth, or other printed or inlaid floor-covering. Nos. 42,505–13; May 14; Gaz. vol. 178; pp. 567–9.
Humphreys, Charles F., Lancaster, assignor to Armstrong Cork Company, Pittsburgh, Pa. Linoleum, oil-cloth, or floor-covering. Nos. 42,626–7; June 18; Gaz. vol. 179; p. 827.
Humphreys, Charles F., Lancaster, assignor to Armstrong Cork Company, Pittsburgh, Pa. Linoleum, oil-cloth, or floor-covering. No. 43,221; Nov. 5; Gaz. vol. 184; p. 264.
Humphreys, Harry, Lancaster, assignor to Armstrong Cork Company, Pittsburgh, Pa. Linoleum, oil-cloth, or floor-covering. No. 43,220; Nov. 5; Gaz. vol. 184; p. 263.
Humphreys, Harry, Lancaster, assignor to Armstrong Cork Company, Pittsburgh, Pa. Linoleum, oil-cloth, or floor-covering. No. 43,308; Dec. 3; Gaz. vol. 185; p. 222.
Huxley, Edward H., assignor to National India Rubber Company, Bristol, R. I. Rubber mat. No. 42,327; Mar. 19; Gaz. vol. 176; p. 728.
Hyatt, Frank S., Brooklyn, N. Y. Can-top. Nos. 43,252–3; Nov. 19; Gaz. vol. 184; p. 784.
Inflexible Company. (See Schwarber, Henry, assignor.)
Ingram, Frederick F., assignor to Frederick F. Ingram Company, Detroit, Mich. Bottle. No. 42,287; Mar. 12; Gaz. vol. 176; p. 501.
International Lace Co. (See Lackey, George E., assignor.)
International Silver Co. (See Hirschfeld, Henry A., assignor.)
International Silver Co. (See Pretat, Frederick E., assignor.)
International Silver Co. (See Schulze, Richard, assignor.)
International Silver Co. (See Strohhaker, Gustave, assignor.)
International Silver Company. (See Eginton, Arthur V., assignor.)
International Silver Company. (See Kintz, Alfred G., assignor.)
Ivory Safety Razor Company. (See Cameron, Arthur, assignor.)
J. Pouyat Company, The. (See Ziegler, Charles E., assignor.)
J. A. Pozzoni Pharmacal Company, The. (See Gunder, Jeane D., assignor.)
J. G. Brill Company, The. (See Liddell, Robert B., assignor.)
J. L. Sommer Manufacturing Co. (See Harding, Thomas, assignor.)
J. L. Sommer Mfg. Co. (See Sommer, John L., assignor.)
J. W. York & Sons. (See Johnson, Alfred J., assignor.)
Jacobsen, Jacob E. C., Nyack, N. Y. Combination-tool. No. 42,805; July 16; Gaz. vol. 180; p. 856.
Jalliffier, Gustave. (See Jay, Jalliffier, and Blanc.)
Jameson, Joseph. (See Yesbera and Jameson.)
Jameson, William A., Niagara Falls, N. Y. Spoon, fork, or similar article. Nos. 42,756–7; July 9; Gaz. vol. 180; p. 573.
Jameson, William A., Niagara Falls, N. Y. Spoon or similar article. No. 42,840; July 30; Gaz. vol. 180; p. 1374.
Janes, George H., Philadelphia, Pa. Vase. No. 42,628; June 18; Gaz. vol. 179; p. 827.
Jas. H. Matthews & Co. (See Chapin, Jay, assignor.)
Jay, Joseph, G. Jalliffier, and A. Blanc, Grenoble, France. Profiled structural metal beam. Nos. 42,536–8; May 21; Gaz. vol. 178; p. 859.
Jefferson Glass Co. (See Schnelbach, Harry A., assignor.)
Jefferson Glass Company. (See Erskine, John O., assignor.)
Jefferson Glass Company. (See Haley, Reuben, assignor.)
Jeffery, Harold L., Fort Thomas, assignor to The Wadsworth Watch Case Company, Dayton, Ky. Watchcase-bow. No. 42,918; Aug. 20; Gaz. vol. 181; p. 799.
Jenks, Barton P., assignor to William B. Durgin Co., Concord, N. H. Handle for spoons, forks, or similar articles. No. 42,471; May 7; Gaz. vol. 178; p. 295.

Alphabetical list of patentees of designs—Continued.

Jennings, Roger A., Greensboro, N. C. Wardrobe-dresser. No. 42,171; Feb. 13; Gaz. vol. 175; p. 520.
Jewel Cut Glass Company. (See Luckock, Henry R., assignor.)
Jewel Cut Glass Company. (See Luckock and Taylor, assignors.)
John Lauson Manufacturing Company, The. (See Edens, Henry N., assignor.)
John T. Mauran Mfg. Co., The. (See Kennon, Frederick V., assignor.)
Johnsen, Max, Olympia, Wash. Egg-cup. No. 42,084; Jan. 9; Gaz. vol. 174; p. 570.
Johnson, Alfred J., assignor to J. W. York & Sons, Grand Rapids, Mich. Tube of cornets. No. 42,919; Aug. 20; Gaz. vol. 181; p. 800.
Jones, Almon O., Battle Creek, Mich. Wall-register. No. 43,146; Oct. 15; Gaz. vol. 183; p. 761.
Jones, Earle M., assignor to McClintock-Loomis Company, Minneapolis, Minn. Clock-case. No. 42,758; July 9; Gaz. vol. 180; p. 573.
Jones, Frederick H., Andover, Mass. Elastic tire for vehicles. No. 43,047; Sept. 24; Gaz. vol. 182; p. 944.
Jones, Homer A. (See Steffens and Jones.)
Jones, Homer A., Rutherford, N. J. Cigar-band. Nos. 43,281–4; Nov. 26; Gaz. vol. 184; p. 1056.
Jones, Joseph J., Schenectady, N. Y. Carbon-holder. No. 42,360; Mar. 26; Gaz. vol. 176; p. 1048.
Joseph Dixon Crucible Company. (See Tolfree, Frederick W., assignor.)
Joseph Fahys & Co. (See Beiderhase, George B., assignor.)
Joy, Henry B., assignor to Packard Motor Car Company, Detroit, Mich. Vehicle-body. No. 42,074; Jan. 2; Gaz. vol. 174; p. 270.
Joy, Henry B., assignor to Packard Motor Car Company, Detroit, Mich. Automobile radiator-filler cap. No. 42,139; Feb. 6; Gaz. vol. 175; p. 241.
Judd, Frederick W., Cleveland, Ohio, assignor to The Wrought Iron Range Company, St. Louis, Mo. Reservoir-top. No. 42,140; Feb. 6; Gaz. vol. 175; p. 241.
Juergens, Hans P., Chicago, Ill. Badge or button. No. 42,085; Jan. 9; Gaz. vol. 174; p. 570.
Juergens, Henry F., New York, N. Y. Bow-clasp. No. 43,245; Nov. 12; Gaz. vol. 184; p. 529.
Kahn, Lazard, assignor to The Estate Stove Company, Hamilton, Ohio. Stove. No. 43,002; Sept. 10; Gaz. vol. 182; p. 487.
Kahn, Samuel. (See Tuteur, Charles, assignor.)
Kálmán, Nemes, Bridgeport, Conn. Shoe-protector. No. 42,212; Feb. 27; Gaz. vol. 175; p. 1071.
Karsitz, Frank. (See Alvord and Karsitz.)
Kaufmann, Marie E., Plattsmouth, Nebr. Nurse's pin. No. 43,107; Oct. 8; Gaz. vol. 183; p. 481.
Kaufmann, Max L., New York, N. Y. Base-ball scorer. No. 42,361; Mar. 26; Gaz. vol. 176; p. 1048.
Keach, Walter E., Cumberland, R. I. Lace edging. No. 42,417; Apr. 23; Gaz. vol. 177; p. 1019.
Keach, Walter E., Cumberland, R. I. Lace insertion. No. 42,759; July 9; Gaz. vol. 180; p. 574.
Kelly, John F., assignor to Thomas Maddocks Sons Company, Trenton, N. J. Flushing-tank for water-closets. No. 42,328; Mar. 19; Gaz. vol. 176; p. 728.
Kendt, William F., assignor to G. C. Strauss, Buffalo, N. Y. Bicycle-frame. No. 42,605; June 11; Gaz. vol. 179; p. 551.
Kennedy, Harold H., assignor to The Waverly Company, Indianapolis, Ind. Vehicle-body. No. 42,172; Feb. 13; Gaz. vol. 175; p. 521.
Kennedy, Thomas R., and E. J. King, assignors to Co-operative Foundry Company, Rochester, N. Y. Stove. No. 42,329; Mar. 19; Gaz. vol. 176; p. 728.
Kennon, Frederick V., Cranston, R. I., assignor to The John T. Mauran Mfg. Co., Providence, R. I. Bracelet. Nos. 42,760–1; July 9; Gaz. vol. 180; p. 574.
Kent, Arthur A., Philadelphia, Pa. Cap for contact-makers. No. 42,666; June 25; Gaz. vol. 179; p. 1080.
Kent, Arthur A., Philadelphia, Pa. Automobile-horn. No. 43,177; Oct. 22; Gaz. vol. 183; p. 1012.
Kerr, Matilda M., Hutchinson, Kans. Curtain-fixture. No. 42,689; July 2; Gaz. vol. 180; p. 292.
Ketcham & McDougall. (See Seybold, Lorentz M., assignor.)
Keyes, Isabel C., assignor to The Pantasote Company, New York, N. Y. Fabric. No. 42,418; Apr. 23; Gaz. vol. 177; p. 1019.
Keystone Watch Case Company, The. (See Ebelhare and Freund, assignors.)
Kieffer, Eugene T., Philadelphia, Pa., assignor to Victor Talking Machine Company. Cabinet for talking-machines. Nos. 43,003–6; Sept. 10; Gaz. vol. 182; pp. 487–8.
Kilbourn, Washington H., Greenfield, Mass. Cap. No. 43,048; Sept. 24; Gaz. vol. 182; p. 944.
Kilker, John E. (See Dake and Kilker.)
King, Edward J. (See Kennedy and King.)
King, Walter G., New York, N. Y. Nose-guard. No. 43,049; Sept. 24; Gaz. vol. 182; p. 944.
Kintz, Alfred G., Wallingford, assignor to International Silver Company, Meriden, Conn. Spoon, fork, or similar article. No. 42,968; Sept. 3; Gaz. vol. 182; p. 224.
Kintz, Robert G., assignor to International Silver Co., Meriden, Conn. Spoon, fork, or similar article. No. 42,969; Sept. 3; Gaz. vol. 182; p. 224.
Kirby, James B., Cleveland, Ohio. Casing for pneumatic cleaners. No. 43,147; Oct. 15; Gaz. vol. 183; p. 761.
Kirchhoff, Ernest, New York, N. Y., assignor to Pacific Mills, Boston, Mass. Textile fabric or wall-paper. No. 42,213; Feb. 27; Gaz. vol. 175; p. 1071.
Kissel, William H., Omaha, Nebr. Sprocket-wheel. No. 42,629; June 18; Gaz. vol. 179; p. 827.
Klell, Albert, West Park, Ohio. Hat-pin. No. 42,943; Aug. 27; Gaz. vol. 181; p. 1051.
Kolb, Gustave F., Mount Vernon, N. Y. Birth-spoon. No. 42,630; June 18; Gaz. vol. 179; p. 828.
Kopp, Nicholas, assignor to Pittsburgh Lamp, Brass & Glass Company, Pittsburgh, Pa. Shade. Nos. 42,631–4; June 18; Gaz. vol. 179; p. 828.
Korn, George W., Little Valley, N. Y. Handle for razors or similar articles. No. 43,405; Dec. 31; Gaz. vol. 185; p. 1358.
Korzinek, William C., Weehawken Heights, N. J., assignor to Pacific Mills, Boston, Mass. Textile fabric or wall-paper. No. 42,214; Feb. 27; Gaz. vol. 175; p. 1071.
Korzinek, William C., Weehawken Heights, N. J., assignor to Pacific Mills, Boston, Mass. Textile fabric or wall-paper. No. 42,851; Aug. 6; Gaz. vol. 181; p. 246.
Kraus, Isidor, New York, N. Y. Stand. No. 42,762; July 9; Gaz. vol. 180; p. 574.
Kreger, Conrad, Paterson, assignor to Oriental Silk Printing Company, Haledon, N. J. Textile fabric. No. 43,254; Nov. 19; Gaz. vol. 184; p. 784.
Kress, Joseph F., D. J. O'Connell, and L. N. Osmond, Philadelphia, Pa. Automobile signal-lamp. No. 42,690; July 2; Gaz. vol. 180; p. 293.
Kretzer, Sidney D., assignor to St. Louis Lightning Rod Company, St. Louis, Mo. Lightning-rod terminal. No. 42,173; Feb. 13; Gaz. vol. 175; p. 521.
Kupper, Herman C., New York, N. Y. Teapot or similar article. No. 42,565; May 28; Gaz. vol. 178; p. 1128.
Kupper, Herman C., New York, N. Y. Plate or similar article. Nos. 42,763–4; July 9; Gaz. vol. 180; pp. 574–5.
L. S. Donaldson Company. (See Mitchell and Colburn, assignors.)
Lack, Finis E., and E. Lackey, Paducah, Ky. Harness-rack. No. 42,635; June 18; Gaz. vol. 179; p. 828.
Lackey, Ernest. (See Lack and Lackey.)
Lackey, George E., assignor to International Lace Co., New York, N. Y. Bedspread. No. 43,050; Sept. 24; Gaz. vol. 182; p. 944.
Lacouture, Henry C., Arlington, N. J., assignor to Bigelow Carpet Company. Rug. No. 42,691; July 2; Gaz. vol. 180; p. 293.
Lacouture, Henry C., Arlington, N. J., assignor to Bigelow Carpet Company. Rug. No. 43,309; Dec. 3; Gaz. vol. 185; p. 222.
Lambert, Julius J., assignor to Frank & Lambert, Inc., New York, N. Y. Textile fabric. No. 42,872; Aug. 13; Gaz. vol. 181; p. 514.
Landers, Frary & Clark. (See Moberg, Oscar, assignor.)
Landers, Frary and Clark. (See Spellman, Herbert W., assignor.)
Landers, Frary & Clark. (See Walker, George, assignor.)
Lane, William H., and J. P. Ledger, Leominster, Mass. Barrette. No. 42,086; Jan. 9; Gaz. vol. 174; p. 570.
Lang, Charles E. J., assignor to The Rauch & Lang Carriage Company, Cleveland, Ohio. Vehicle-body. No. 42,186; Feb. 20; Gaz. vol. 175; p. 823.
Lansing, Gulian V. P., assignor to Aermore Manufacturing Company, Chicago, Ill. Automobile-horn. No. 43,081; Oct. 1; Gaz. vol. 183; p. 203.
Lansing, Gulian V. P., assignor to Aermore Manufacturing Company, Chicago, Ill. Automobile-horn. No. 43,195; Oct. 29; Gaz. vol. 183; p. 1282.
Lansing, Gulian V. P., assignor to Aermore Manufacturing Company, Chicago, Ill. Automobile-horn. No. 43,222; Nov. 5; Gaz. vol. 184; p. 264.
Laporte, Theodore, and D. Lebeuf, New Market, N. H. Grave-marker. No. 43,223; Nov. 5; Gaz. vol. 184; p. 264.
Larmore, Harry A., Detroit, Mich., and F. McManis, Chicago, Ill. Vehicle-body. No. 42,920; Aug. 20; Gaz. vol. 181; p. 800.
Larsen, John S., and A. Valerius, New York, N. Y. Metal plate. No. 42,765; July 9; Gaz. vol. 180; p. 575.
Larsson, Ivan A. M., Stockholm, Sweden. Picture-hook or similar article. No. 42,970; Sept. 3; Gaz. vol. 182; p. 225.
Lauter Company. (See Bergland, Carl, assignor.)
Lawther, Paul W., Dallas, Tex. Weighing-bin. No. 43,051; Sept. 24; Gaz. vol. 182; p. 944.
Lawton, Thomas L., Philadelphia, Pa., assignor to Trorlicht Duncker Carpet Co., St. Louis, Mo. Rug. Nos. 42,472–84; May 7; Gaz. vol. 178; pp. 295–8.
Lawton, Thomas L., Philadelphia, Pa., assignor to Roxbury Carpet Company, Boston, Mass. Rug. No. 42,873; Aug. 13; Gaz. vol. 181; p. 515.
Leavenworth, Seth H., assignor to The Van Bergh Silver Plate Co., Rochester, N. Y. Candelabrum. No. 42,852; Aug. 6; Gaz. vol. 181; p. 247.
Lebeuf, Dona. (See Laporte and Lebeuf.)

Alphabetical list of patentees of designs—Continued.

Lebovitz, Louis, Pittsburgh, Pa. Gas-stove. No. 43,196; Oct. 29; Gaz. vol. 183; p. 1282.
Ledger, John P. (See Lane and Ledger.)
Lee, James B., Savannah, Ga. Set of letters and other characters. No. 42,766; July 9; Gaz. vol. 180; p. 575.
Lehman, Max R., Quincy, Ill., assignor to Atlanta Stove Works, Atlanta, Ga. Stove. No. 42,806; July 16; Gaz. vol. 180; p. 856.
Leichter, Mark M., San Francisco, Cal. Badge or emblem. No. 43,052; Sept. 24; Gaz. vol. 182; p. 944.
Leone, Pascal, New York, N. Y. Charm or similar article. No. 42,485; May 7; Gaz. vol. 178; p. 298.
Leschen, Harry J., assignor to A. Leschen & Sons Rope Company, St. Louis, Mo. Sign. No. 42,636; June 18; Gaz. vol. 179; p. 829.
Leslie, Hattie C., Duquesne, Pa. Linoleum. No. 42,582; June 4; Gaz. vol. 179; p. 263.
Leslie, James W., Chelsea, assignor to Leslie Manufacturing Company, Canton, Mass. Blade for safety-razors. No. 43,082; Oct. 1; Gaz. vol. 183; p. 203.
Leslie Manufacturing Company. (See Leslie, James W., assignor.)
Levett, Edith E., New York, N. Y. Statuette. No. 42,606; June 11; Gaz. vol. 179; p. 551.
Levison, Celia, Cleveland, Ohio. Spoon. No. 42,944; Aug. 27; Gaz. vol. 181; p. 1051.
Lewis, George B., San Francisco, Cal. Casket. No. 42,767; July 9; Gaz. vol. 180; p. 575.
Lewis, George B., assignor to Panama Pacific International Exposition Co., San Francisco, Cal. Souvenir-spoon. No. 43,285; Nov. 26; Gaz. vol. 184; p. 1056.
Leyser, Frank L., Chicago, Ill. Ribbon-bow holder. No. 42,288; Mar. 12; Gaz. vol. 176; p. 501.
Liddell, Robert B., assignor to The J. G. Brill Company, Philadelphia, Pa. Car-seat support. No. 42,419; Apr. 23; Gaz. vol. 177; p. 1019.
Liebmann, Rudolph, New York, N. Y. Button or similar article. Nos. 42,362–3; Mar. 26; Gaz. vol. 176; p. 1048.
Lindemann, Henry O., Stapleton, N. Y. Bird-cage. No. 42,945; Aug. 27; Gaz. vol. 181; p. 1052.
Link-Belt Company. (See Hayward, Henry E., assignor.)
Link, Charles W., Los Angeles, Cal. Automatic-top. Nos. 42,330–1; Mar. 19; Gaz. vol. 176; pp. 728–9.
Lippincott, Fisher H., assignor to A. H. & F. H. Lippincott, Inc., Philadelphia, Pa. Faucet. No. 42,174; Feb. 13; Gaz. vol. 175; p. 521.
Liquid Carbonic Company, The. (See Smith, Horace M., assignor.)
Lissauer, Eduard, Charlottenburg, Germany. Combined automatic vending apparatus. No. 42,395; Apr. 9; Gaz. vol. 177; p. 501.
Lloyd Manufacturing Company, The. (See Lloyd, Marshall B., assignor.)
Lloyd, Marshall B., assignor to The Lloyd Manufacturing Company, Menominee, Mich. Go-cart-body top. No. 42,946; Aug. 27; Gaz. vol. 181; p. 1052.
Lloyd, Marshall B., assignor to The Lloyd Manufacturing Company, Menominee, Mich. Collapsible front hood for go-carts. No. 43,148; Oct. 15; Gaz. vol. 183; p. 761.
Lloyd, Marshall B., assignor to The Lloyd Manufacturing Company, Menominee, Mich. Collapsible go-cart-frame arm-rest. No. 43,149; Oct. 15; Gaz. vol. 183; p. 761.
Loeper, Bernard E., Philadelphia, Pa. Charm. No. 42,768; July 9; Gaz. vol. 180; p. 576.
Lohmann, Alfred P., Akron, Ohio, assignor, by mesne assignments, to The B. F. Goodrich Company. Tire-tread. Nos. 43,310–11; Dec. 3; Gaz. vol. 185; pp. 222–3.
Lohrmann, Ernst H., assignor to Fessenden and Company, Inc., Providence, R. I. Handle for spoons, forks, or similar articles. No. 42,486; May 7; Gaz. vol. 178; p. 298.
Lohrmann, Ernst H., Providence, R. I., assignor to The Williams Brothers Manufacturing Company, Glastonbury, Conn. Spoon, fork, or similar article. No. 43,197; Oct. 29; Gaz. vol. 183; p. 1282.
London, Louis B., New York, N. Y. Inverted gas-burner. No. 42,853; Aug. 6; Gaz. vol. 181; p. 247.
Lonn, Edward J., assignor to Great Western Manufacturing Co., Laporte, Ind. Bicycle-frame. No. 43,083; Oct. 1; Gaz. vol. 183; p. 203.
Loomis, Harry T., assignor to Frank and Lambert, Inc., New York, N. Y. Textile fabric. No. 42,816; July 23; Gaz. vol. 180; p. 1120.
Loomis, Harry T., assignor to Frank & Lambert, Inc., New York, N. Y. Textile fabric. No. 43,178; Oct. 22; Gaz. vol. 183; p. 1012.
Loudon, Milton R., Brooklyn, N. Y., assignor to Bigelow Carpet Company. Carpet. No. 42,289; Mar. 12; Gaz. vol. 176; p. 501.
Loudon, Milton R., Brooklyn, N. Y., assignor to Bigelow Carpet Company. Carpet. No. 42,539; May 21; Gaz. vol. 178; p. 859.
Loudon, Milton R., Brooklyn, N. Y., assignor to Bigelow Carpet Company. Rug. No. 43,360; Dec. 24; Gaz. vol. 185; p. 1027.
Lovatt, Albert E., Heanor, England, assignor to H. C. Edmiston, Orange, N. J. Water-bottle. No. 42,841; July 30; Gaz. vol. 180; p. 1375.
Low, Abbot A., Horshoe, and H. Hertzberg, New York, N. Y., assignors to A. A. Low, M. J. Wohl, and H. Hertzberg, trustees. Heater or similar article. No. 42,692; July 2; Gaz. vol. 180; p. 293.
Lowe, Edgar, H. W. Haff, and W. P. Andrick, assignors to K. M. Turner, Jamaica, N. Y. Telephonic transmitting-station. No. 43,198; Oct. 29; Gaz. vol. 183; p. 1283.
Lucas, James L., Bridgeport, Conn. Chauffeur's heel-rest. No. 42,396; Apr. 9; Gaz. vol. 177; p. 501.
Luckock, Henry R., assignor to Jewel Cut Glass Company, Newark, N. J. Glass vessel. No. 42,332; Mar. 19; Gaz. vol. 176; p. 729.
Luckock, Henry R., and C. H. Taylor, assignors to Jewel Cut Glass Company, Newark, N. J. Glass vessel. Nos. 42,333–6; Mar. 19; Gaz. vol. 176; pp. 729–30.
Lunt, Ernest M., Naperville, Ill., assignor to Towle Manufacturing Company, Newburyport, Mass. Dinner-set cabinet. Nos. 42,187–8; Feb. 20; Gaz. vol. 175; p. 823.
Luxury Sales Company. (See Thompson, Charles E., assignor.)
M. H. Birge & Sons Company. (See Mackintosh, Robert W., assignor.)
MacDougall, William E., Newark, N. J., assignor to J. R. Moorehead, Lexington, Mo. Badge. No. 43,340; Dec. 10; Gaz. vol. 185; p. 508.
Macbeth-Evans Glass Company. (See Hawe and Evans, assignors.)
Macbeth, George A., Pittsburgh, Pa. Lamp glass or lens. No. 42,854; Aug. 6; Gaz. vol. 181; p. 247.
Mackay, Edmund. (See Ferrall and Mackay.)
Mackenzie, Joseph G., Toledo, Ohio. Brush. No. 42,437; Apr. 30; Gaz. vol. 177; p. 1273.
Mackintosh, Robert W., assignor to M. H. Birge & Sons Company, Buffalo, N. Y. Wall-paper. Nos. 42,637–8; June 18; Gaz. vol. 179; p. 829.
Macleod, A. L. (See Bailey, Robert L., assignor.)
Madden, Patrick J., Chicago, Ill. Drinking-fountain. No. 42,364; Mar. 26; Gaz. vol. 176; p. 1048.
Maddock Pottery Company, The. (See May, Charles A., assignor.)
Madeleine, Emile, Flatbush, N. Y., assignor to Pacific Mills, Boston, Mass. Textile fabric or wall-paper. Nos. 42,215–21; Feb. 27; Gaz. vol. 175; pp. 1071–2.
Magee, Frederick W., assignor of one-half to T. W. Baker, London, Ontario, Canada. Gas-lamp body. No. 42,365; Mar. 26; Gaz. vol. 176; p. 1048.
Magnus, Adolph, New York, N. Y. Lamp-shade. No. 42,921; Aug. 20; Gaz. vol. 181; p. 800.
Mahn, Godfrey S., Philadelphia, Pa. Cigar-protector. Nos. 43,150–1; Oct. 15; Gaz. vol. 183; pp. 761–2.
Majestic Manufacturing Company. (See Henry, Frank R., assignor.)
Mallory, Frederick B., Portland, Oreg. Block side. No. 42,487; May 7; Gaz. vol. 178; p. 299.
Mallory, Frederick B., Portland, Oreg. Guard for pulleys. No. 42,667; June 25; Gaz. vol. 179; p. 1080.
Mann, Leon, New York, N. Y. Rack for umbrellas and other articles. No. 43,246; Nov. 12; Gaz. vol. 184; p. 529.
Manning, Bowman & Company. (See Farr, Edward A., assignor.)
Manson, Ray H., assignor to The Dean Electric Company, Elyria, Ohio. Automobile-horn. Nos. 42,971–2; Sept. 3; Gaz. vol. 182; p. 225.
Manson, Ray H., assignor to The Dean Electric Company, Elyria, Ohio. Signaling device and bracket therefor. No. 43,053; Sept. 24; Gaz. vol. 182; p. 945.
Manson, Ray H., assignor to The Dean Electric Company, Elyria, Ohio. Inclosure for circuit-controllers. No. 43,199; Oct. 29; Gaz. vol. 183; p. 1283.
Marcus, Carl R., Dresden, Germany, assignor to L. Straus & Sons, New York, N. Y. Plate or similar article. No. 43,255; Nov. 19; Gaz. vol. 184; p. 784.
Marks, Isidore, Boston, Mass. Imitation paper parasol. No. 43,200; Oct. 29; Gaz. vol. 183; p. 1283.
Marsden, John E., Philadelphia, Pa. Vehicle-vase. No. 43,224; Nov. 5; Gaz. vol. 184; p. 264.
Marshall, Allan L., St. John, New Brunswick, Canada. Keyhole-finder. No. 42,639; June 18; Gaz. vol. 179; p. 829.
Marshall, Hayden A. (See Bottome and Marshall.)
Mason, Carlisle, Wyndmoor, Pa., assignor to Nelson Valve Company. Wheel. No. 42,855; Aug. 6; Gaz. vol. 181; p. 247.
Mason, Richard F., assignor of three-fourths to C. A. Divine, Bishopville, S. C. Set of letters and numerals for signs. No. 42,923; Aug. 20; Gaz. vol. 181; p. 800.
May, Charles A., assignor to The Maddock Pottery Company, Incorporated, Trenton, N. J. Plate or similar article. No. 42,807; July 16; Gaz. vol. 180; p. 857.
Mayer, Joseph, Seattle, Wash. Handle of spoons or similar articles. No. 43,286; Nov. 26; Gaz. vol. 184; p. 1057.
McArthur, Warren, Jr., Chicago, Ill. Tubular lantern. No. 42,488; May 7; Gaz. vol. 178; p. 299.
McCance, William, Verona, N. J. Thumb-wheel protector. No. 42,874; Aug. 13; Gaz. vol. 181; p. 515.
McClintock-Loomis Company. (See Jones, Earle M., assignor.)
McCrum-Howell Company, The. (See Schmitz, George C., assignor.)

Alphabetical list of patentees of designs—Continued.

McCullough, William T. (See Griffith and McCullough.)
McKenna, Francis J., Valley Falls, R. I. Curtain-hanger. No. 42,640; June 18; Gaz. vol. 179; p. 829.
McKinney, James P., Pittsburgh, Pa. Hinge. No. 42,259; Mar. 5; Gaz. vol. 176; p. 252.
McLean, Walter M., assignor to W. B. McLean Mfg. Co., Pittsburgh, Pa. Chair. No. 42,641; June 18; Gaz. vol. 179; p. 829.
McManis, Fred. (See Larmore and McManis.)
McMurtry, Elmer J., New Brunswick, N. J. Game-board. No. 43,054; Sept. 24; Gaz. vol. 182; p. 945.
McNerney, Edward J., Kansas City, Mo. Statuette. No. 42,607; June 11; Gaz. vol. 179; p. 551.
McQuillan, Jacob M., assignor to Winterton Manufacturing Company, Pittsburgh, Pa. Wind-shield for motor-vehicles and the like. No. 43,406; Dec. 31; Gaz. vol. 185; p. 1358.
Mellon, George A., St. Louis, Mo. Wire fabric. No. 42,642; June 18; Gaz. vol. 179; p. 829.
Melville, David G., Medford, assignor to Roxbury Carpet Company, Boston, Mass. Rug. Nos. 43,007–8; Sept. 10; Gaz. vol. 182; p. 488.
Merry, John, New York, N. Y., assignor to Bigelow Carpet Company. Carpet. No. 42,141; Feb. 6; Gaz. vol. 175; p. 241.
Merry, John, New York, N. Y., assignor to Bigelow Carpet Company. Rug. No. 42,540; May 21; Gaz. vol. 178; p. 859.
Merry, John, New York, N. Y., assignor to Bigelow Carpet Company. Carpet. No. 42,541; May 21; Gaz. vol. 178; p. 860.
Merry, John, New York, N. Y., assignor to Bigelow Carpet Company. Rug. Nos. 42,668–70; June 25; Gaz. vol. 179; pp. 1080–1.
Merry, John, New York, N. Y., assignor to Bigelow Carpet Company. Carpet. Nos. 42,693–5; July 2; Gaz. vol. 180; p. 293.
Merry, John, New York, N. Y., assignor to Bigelow Carpet Company. Rug. No. 42,875; Aug. 13; Gaz. vol. 181; p. 515.
Merry, John, New York, N. Y., assignor to Bigelow Carpet Company. Rug. Nos. 43,312–17; Dec. 3; Gaz. vol. 185; pp. 223–4.
Merry, John, New York, N. Y., assignor to Bigelow Carpet Company. Carpet. No. 43,361; Dec. 24; Gaz. vol. 185; p. 1027.
Meyers, Harry H., New York, N. Y. Gem-setting. No. 42,514; May 14; Gaz. vol. 178; p. 569.
Meyers, Harry H., New York, N. Y. Gem-setting. No. 42,643; June 18; Gaz. vol. 179; p. 829.
Michaut, Adrian. (See Gredelue, Adrian, assignor.)
Millard, William, New York, assignor to Alball Manufacturing Company, Brooklyn, N. Y. Vending-machine casing. No. 42,175; Feb. 13; Gaz. vol. 175; p. 521.
Miller, Enok O., Oakland, Cal. Tie-pin. No. 43,407; Dec. 31; Gaz. vol. 185; p. 1358.
Miller, John E., assignor to Duncan & Miller Glass Company, Washington, Pa. Globe or shade. No. 42,107; Jan. 23; Gaz. vol. 174; p. 1007.
Miller-Lock Company. (See Soley, Frank, assignor.)
Miller, Richard, New Berlin, Ohio. Automobile top-strap buckle. No. 43,225; Nov. 5; Gaz. vol. 184; p. 265.
Miller Rubber Company, The. (See Pfeiffer, William F., assignor.)
Mindum, Philip, and L. Heyne, Chicago, Ill. Sideboard. No. 42,842; July 30; Gaz. vol. 180; p. 1375.
Miner, Edith M., Colville, Wash. Handkerchief. No. 43,201; Oct. 29; Gaz. vol. 183; p. 1283.
Miner, Edith M., Colville, Wash. Doll. No. 43,202; Oct. 29; Gaz. vol. 183; p. 1284.
Mitchell, George E., Haverhill, Mass. Chair-arm. No. 43,152; Oct. 15; Gaz. vol. 183; p. 762.
Mitchell, John S., and S. M. Colburn, assignors to L. S. Donaldson Company, Minneapolis, Minn. Store-counter. No. 42,108; Jan. 23; Gaz. vol. 174; p. 1007.
Moberg, Oscar, New Britain, Conn. Display-stand. No. 42,525; May 14; Gaz. vol. 178; p. 571.
Moberg, Oscar, assignor to Landers, Frary & Clark, New Britain, Conn. Display-stand. No. 42,644; June 18; Gaz. vol. 179; p. 830.
Moberg, Oscar, assignor to Landers, Frary & Clark, New Britain, Conn. Display-stand. No. 42,769; July 9; Gaz. vol. 180; p. 576.
Moffat, John B., Bronxville, N. Y., assignor to Bigelow Carpet Company. Carpet. No. 42,142; Feb; 6; Gaz. vol. 175; p. 241.
Moffat, John B., Bronxville, N. Y., assignor to Bigelow Carpet Company. Rug. Nos. 42,291–2; Mar. 12; Gaz. vol. 176; p. 501.
Moffat, John B., Bronxville, N. Y., assignor to Bigelow Carpet Company. Carpet. No. 42,293; Mar. 12; Gaz. vol. 176; p. 502.
Moffat, John B., Bronxville, N. Y., assignor to Bigelow Carpet Company. Carpet. No. 42,542; May 21; Gaz. vol. 178; p. 860.
Moffat, John B., Bronxville, N. Y., assignor to Bigelow Carpet Company. Rug. Nos. 43,318–20; Dec. 3; Gaz. vol. 185; pp. 224–5.
Moffat, John B., Bronxville, N. Y., assignor to Bigelow Carpet Company. Carpet. No. 43,362; Dec. 24; Gaz. vol. 185; p. 1027.
Monahan, Louis J., Oshkosh, Wis. Gas-engine frame. No. 42,696; July 2; Gaz. vol. 180; p. 294.
Monier, Frederick C., assignor to North & Judd Manufacturing Company, New Britain, Conn. Bridle-check. No. 42,366; Mar. 26; Gaz. vol. 176; p. 1049.
Monier, Frederick C., assignor to North & Judd Manufacturing Company, New Britain, Conn. Spur-body. No. 42,489; May 7; Gaz. vol. 178; p. 299.
Moody, Arthur E., New York, N. Y. Automobile-lamp. No. 43,226; Nov. 5; Gaz. vol. 184; p. 265.
Moore, Asahel B. T., Cedar Rapids, Iowa. Button. No. 43,009; Sept. 10; Gaz. vol. 182; p. 488.
Moore, John A., Wheeling, W. Va. Mattock. No. 43,153; Oct. 15; Gaz. vol. 183; p. 762.
Moorehead, James R. (See MacDougall, William E., assignor.)
Mordt, Anders L., Guymon, Okla. Nutcracker. Nos. 42,143–4; Feb. 6; Gaz. vol. 175; p. 241.
Morgan, Arthur J., Chicago, Ill., assignor to National X-Ray Reflector Company. Canopy for electric-light fixtures. No. 42,583; June 4; Gaz. vol. 179; p. 264.
Morris, Edward, New Bedford, Mass. Threading-eye for loom-shuttles. No. 42,856; Aug. 6; Gaz. vol. 181; p. 247.
Morris S. Wright Company. (See Wright, Morris S., assignor.)
Morrow, James. (See Morrow, Richard H. and J.)
Morrow, Richard H. and J., Waukegan, Ill. Electric-vacuum-cleaner casing or similar article. No. 42,973; Sept. 3; Gaz. vol. 182; p. 225.
Morse, George W., assignor to Parish & Bingham Company, Cleveland, Ohio. Running-board for automobiles. No. 42,145; Feb. 6; Gaz. vol. 175; p. 242.
Mortenson, Thomas, Middletown, N. Y. Drinking-glass or similar article. No. 42,367; Mar. 26; Gaz. vol. 176; p. 1049.
Moss, Milton E., Hartford, Conn. Game-board. No. 42,924; Aug. 20; Gaz. vol. 181; p. 801.
Mossberg, Frank, Attleboro, Mass., assignor to Frank Mossberg Company. Combination-tool. No. 42,368; Mar. 26; Gaz. vol. 176; p. 1049.
Motor Car Mfg. Co., The. (See Teasdale, William C., Jr., assignor.)
Muehlmatt, Adolph, Newport, Ky. Engraver's block. No. 42,397; Apr. 9; Gaz. vol. 177; p. 502.
Mueller, Samuel, Jersey City, N. J. Noodle or macaroni. No. 42,608; June 11; Gaz. vol. 179; p. 551.
Müller, Herman J., assignor to The Hensel Silk Manufacturing Company, Philadelphia, Pa. Fringe. No. 42,857; Aug. 6; Gaz. vol. 181; p. 248.
Mundheim, Samuel, New York, N. Y. Hat. No. 42,438; Apr. 30; Gaz. vol. 177; p. 1273.
Munier, Emile, Jersey City, N. J., assignor to Pacific Mills, Boston, Mass. Textile fabric or wall-paper. Nos. 42,222–7; Feb. 27; Gaz. vol. 175; pp. 1072–3.
Munier, Emile, Jersey City, N. J., assignor to Pacific Mills, Boston, Mass. Textile fabric or wall-paper. No. 42,337; Mar. 19; Gaz. vol. 176; p. 730.
Munier, Emile, Jersey City, N. J., assignor to Pacific Mills, Boston, Mass. Textile fabric or wall-paper. Nos. 42,817–21; July 23; Gaz. vol. 180; pp. 1120–1.
Munroe, Alexander, and F. F. Fink, Omaha, Nebr. Number-display casing. No. 42,109; Jan. 23; Gaz. vol. 174; p. 1008.
Mygatt, Otis A., New York, N. Y. Shade, reflector, or similar article. Nos. 42,420–1; Apr. 23; Gaz. vol. 177; pp. 1019–20.
Mygatt, Otis A., New York, N. Y. Sheet-glass or similar article. No. 42,422; Apr. 23; Gaz. vol. 177; p. 1020.
Nahuis, George W., Cleveland, Ohio. Combined bubbling and draft fountain. No. 43,010; Sept. 10; Gaz. vol. 182; p. 488.
National India Rubber Company. (See Huxley, Edward H., assignor.)
National X-Ray Reflector Company. (See Curtis, Augustus D., assignor.)
National X-Ray Reflector Company. (See Hotchkin, Paul M., assignor.)
National X-Ray Reflector Company. (See Morgan, Arthur J., assignor.)
National X-Ray Reflector Company. (See Runion, George I., assignor.)
National X-Ray Reflector Company. (See Spindler, Oscar, assignor.)
Neerken, Adrian J., assignor to Packard Motor Car Company, Detroit, Mich. Lamp. No. 42,697; July 2; Gaz. vol. 180; p. 294.
Neerken, Adrian J., assignor to Packard Motor Car Company, Detroit, Mich. Bezel. No. 42,698; July 2; Gaz. vol. 180; p. 294.
Neff, August E., Chicago, Ill. Portière. No. 42,087; Jan. 9; Gaz. vol. 174; p. 571.
Nelson, Charles. (See Prior and Nelson.)
Nelson, Charles. (See Sternau and Nelson.)
Nelson, Charles. (See Strassburger and Nelson.)
Nelson, Charles, assignor to S. Sternau & Company, New York, N. Y. Coffee-percolator. No. 42,088; Jan. 9; Gaz. vol. 174; p. 571.
Nelson, Charles, Brooklyn, assignor to S. Sternau & Company, New York, N. Y. Crumb-scraper. No. 42,925; Aug. 20; Gaz. vol. 181; p. 801.

Alphabetical list of patentees of designs—Continued.

Nelson, Charles, New York, assignor to S. Sternau & Co., Brooklyn, N. Y. Crumb-tray. No. 42,974; Sept. 3; Gaz. vol. 182; p. 226.
Nelson, Charles, New York, assignor to S. Sternau & Company, Brooklyn, N. Y. Soap-dish. No. 43,256; Nov. 19; Gaz. vol. 184; p. 784.
Nelson, Nels J., Chicago, Ill., assignor to F. Engelhardt & Sons, St. Johnsville, N. Y. Piano-case. No. 42,189; Feb. 20; Gaz. vol. 175; p. 823.
Nelson Valve Company. (See Mason, Carlisle, assignor.)
Nerney, George E., Attleboro, Mass. Badge or emblem. Nos. 43,227–9; Nov. 5; Gaz. vol. 184; p. 265.
Newbold, Roger M. (See Hamm and Newbold.)
Newton, Leon W., Boston, Mass. Chair. No. 42,089; Jan. 9; Gaz. vol. 174; p. 571.
Nonaka, Kojiro, New York, N. Y. Textile fabric. No. 43,408; Dec. 31; Gaz. vol. 185; p. 1358.
Nordt, Paul W., *et al.* (See Ackerman, Henry, assignor.)
Nordt, William C., *et al.* (See Ackerman, Henry, assignor.)
North & Judd Manufacturing Company. (See Monier, Frederick C., assignor.)
Norton, Horace B., *et al.* (See Glass, Sidney, assignor.)
Numan, Charles H., New York, N. Y. Combined pen rack and tray. Nos. 43,154–5; Oct. 15; Gaz. vol. 183; p. 762.
Numan, Charles H., New York, N. Y. Paper-weight. Nos. 43,230–1; Nov. 5; Gaz. vol. 184; p. 265.
Numan, Charles H., New York, N. Y. Inkstand. No. 43,321; Dec. 3; Gaz. vol. 185; p. 225.
Nungesser Electric Battery Company, The. (See Nungesser, Philip P., assignor.)
Nungesser, Philip P., assignor to The Nungesser Electric Battery Company, Cleveland, Ohio, a Corporation. Carbon electrode. No. 42,947; Aug. 27; Gaz. vol. 181; p. 1052.
O'Brien, John H., Cleveland, Ohio. Stove. No. 42,176; Feb. 13; Gaz. vol. 175; p. 522.
O'Connell, Daniel J. (See Kress, O'Connell, and Osmond.)
Ober Manufacturing Company, The. (See Wait and White, assignors.)
Oderman, Erik H., assignor to Frick Company, Waynesboro, Pa. Machine-frame. No. 42,294; Mar. 12; Gaz. vol. 176; p. 502.
Oldenbusch, Ernest, New York, N. Y. Toilet powder and dispenser. No. 43,055; Sept. 24; Gaz. vol. 182; p. 945.
Oliver Typewriter Company, The. (See Billings, Herbert E., assignor.)
Oneida Community. (See Allen, Grosvenor N., assignor.)
Onffroy, Roland, assignor to United Stores Association, New York, N. Y. Letter-head or similar article. No. 42,228; Feb. 27; Gaz. vol. 175; p. 1073.
Onondaga Pottery Company. (See Walter, Elmer E., assignor.)
Opperman, George R. (See Bux and Opperman.)
Orcutt, Leon F., New York, N. Y., assignor to Pacific Mills, Boston, Mass. Textile fabric or wall-paper. Nos. 42,229–31; Feb. 27; Gaz. vol. 175; pp. 1073–4.
Oriental Silk Printing Company. (See Kreger, Conrad, assignor.)
Orr, John F., assignor to The Cincinnati Coffin Company, Cincinnati, Ohio. Lining for burial-casket lids. No. 42,948; Aug. 27; Gaz. vol. 181; p. 1052.
Osborne, Charles, New York, N. Y. Handle for spoons, forks, or similar articles. No. 42,146; Feb. 6; Gaz. vol. 175; p. 242.
Osborne, Charles, assignor to Whiting Manufacturing Company, New York, N. Y. Handle for spoons, forks, or similar articles. No. 43,156; Oct. 15; Gaz. vol. 183; p. 763.
Osborne, Charles, assignor to Whiting Manufacturing Company, New York, N. Y. Handle for spoons, forks, or similar articles. No. 43,257; Nov. 19; Gaz. vol. 184; p. 785.
Osborne, William L., Chicago, Ill. Hand-wheel for valves. No. 42,770; July 9; Gaz. vol. 180; p. 576.
Osmond, Louis N. (See Kress, O'Connell, and Osmond.)
Owen, Ralph T., Springfield, Ill. Vacuum-cleaner frame. No. 43,011; Sept. 10; Gaz. vol. 182; p. 489.
Owen, William H. (See Crosett, Robert, assignor.)
P. D. Beckwith, Incorporated. (See Beckwith, Arthur K., assignor.)
Pacific Mills. (See Forestier, Gustave, assignor.)
Pacific Mills. (See Hoch, Ernest, assignor.)
Pacific Mills. (See Kirchhoff, Ernest, assignor.)
Pacific Mills. (See Korzinek, William C., assignor.)
Pacific Mills. (See Madeleine, Emile, assignor.)
Pacific Mills. (See Munier, Emile, assignor.)
Pacific Mills. (See Orcutt, Leon F., assignor.)
Pacific Mills. (See Rothschild, Max, assignor.)
Pacific Mills. (See Schaetzel, Francois J., assignor.)
Packard Motor Car Company. (See Estep, Edwin R., assignor.)
Packard Motor Car Company. (See Huff, Russell, assignor.)
Packard Motor Car Company. (See Joy, Henry B., assignor.)
Packard Motor Car Company. (See Neerken, Adrian J., assignor.)
Packer, Mortimer L., Columbus, Ohio. Portable heater. No. 42,699; July 2; Gaz. vol. 180; p. 294.
Page, Albert A., East Haven, assignor to Sargent & Company, New Haven, Conn. Padlock. No. 42,515; May 14; Gaz. vol. 178; p. 569.
Pagin, James R., Valparaiso, Ind. Combination-lamp. No. 42,771; July 9; Gaz. vol. 180; p. 576.
Palmer, Eddy, assignor to Solon Palmer, Inc., New York, N. Y. Bottle or similar receptacle. No. 42,516; May 14; Gaz. vol. 178; p. 569.
Panama Pacific International Exposition Co. (See Lewis, George B., assignor.)
Pantasote Company, The. (See Bloodworth, Kate, assignor.)
Pantasote Company, The. (See Gilbert, Cornelia E., assignor.)
Pantasote Company, The. (See Keyes, Isabel C., assignor.)
Pape, Herman G., Buffalo, N. Y. Acoustic earpiece. No. 42,295; Mar. 12; Gaz. vol. 176; p. 502.
Pardoe, William A., Springfield, Mass., assignor to Bigelow Carpet Company. Rug. Nos. 43,363–4; Dec. 24; Gaz. vol. 185; pp. 1027–8.
Parish & Bingham Company. (See Cairns, William, assignor.)
Parish & Bingham Company. (See Morse, George W., assignor.)
Parker Clock Company, The. (See Walker, Eli M., assignor.)
Parker, Emma M., New York, N. Y., assignor to Parker, Stearns & Company, Brooklyn, N. Y. Rubber bathing-cap. No. 42,646; June 18; Gaz. vol. 179; p. 830.
Parker, Russell, New York, N. Y., assignor to Parker, Stearns & Company, Brooklyn, N. Y. Rubber bathing-cap. No. 42,645; June 18; Gaz. vol. 179; p. 830.
Parker, Stearns & Company. (See Parker, Emma M., assignor.)
Parker, Stearns & Company. (See Parker, Russell, assignor.)
Parrott, Mary J. and S., Hotchkiss, Colo. Shoe ornament. No. 43,157; Oct. 15; Gaz. vol. 183; p. 763.
Parrott, Samuel. (See Parrott, Mary J. and S.)
Parslow, George H., Chilliwack, British Columbia, Canada. Poison-bottle. No. 43,179; Oct. 22; Gaz. vol. 183; p. 1012.
Partenheimer, Otto, New York, N. Y. Cigar-holder and ash-receiver. No. 42,858; Aug. 6; Gaz. vol. 181; p. 248.
Parton, Henry W., Yonkers, assignor to Alexander Smith & Sons Carpet Company, New York, N. Y. Rug. Nos. 42,609–10; June 11; Gaz. vol. 179; pp. 551–2.
Patrick, Oscar, Springfield, Ohio. Handles for canes and umbrellas. No. 43,409; Dec. 31; Gaz. vol. 185; p. 1358.
Paull, James, assignor to Eagle Glass & Manufacturing Company, Wellsburg, W. Va. Molasses-jug. No. 42,647; June 18; Gaz. vol. 179; p. 830.
Paxton, Sherman H., Holland, Mich. Card-back. No. 42,876; Aug. 13; Gaz. vol. 181; p. 515.
Pearson, Simon E., and B. D. Gorman, Genoa, Nebr. Type-writer table. No. 42,296; Mar. 12; Gaz. vol. 176; p. 502.
Pegel, Julius G., assignor to The Hartford Carpet Corporation, Thompsonville, Conn. Carpet or rug. No. 42,877; Aug. 13; Gaz. vol. 181; p. 516.
Pegel, Julius G., assignor to Hartford Carpet Corporation, Thompsonville, Conn. Carpet or rug. No. 43,365; Dec. 24; Gaz. vol. 185; p. 1028.
Pelouze Manufacturing Company, The. (See Schwartz, Edward, assignor.)
Pennsylvania Wire Glass Company. (See Shuman, Frank, assignor.)
Perkins, Walter H., Cheshire, assignor to Waterbury Mfg. Co., Waterbury, Conn. Toilet-soap box. No. 42,949; Aug. 27; Gaz. vol. 181; p. 1052.
Perrine, William E., assignor of one-third to C. Girl, Cleveland, and one-third to E. W. Farr, Cleveland Heights, Ohio. Vehicle wheel-anchorage device. No. 42,090; Jan. 9; Gaz. vol. 174; p. 571.
Peters, Louis G., and M. D. Brown, Denver, Colo. Germ-exterminator for drinking-receptacles. No. 42,297; Mar. 12; Gaz. vol. 176; p. 502.
Petzold, Adolph, assignor to J. Bromley & Sons, Philadelphia, Pa. Nos. 42,190–2; Feb. 20; Gaz. vol. 175; pp. 823–4.
Petzold, Adolph, assignor to J. Bromley & Sons, Philadelphia, Pa. Rug. Nos. 42,232–4; Feb. 27; Gaz. vol. 175; p. 1074.
Petzold, Adolph, assignor to J. Bromley & Sons, Philadelphia, Pa. Rug. Nos. 42,439–40; Apr. 30; Gaz. vol. 177; p. 1273.
Petzold, Adolph, assignor to J. Bromley & Sons, Philadelphia, Pa. Rug. Nos. 42,490–3; May 7; Gaz. vol. 178; pp. 299–300.
Petzold, Adolph, assignor to J. Bromley & Sons, Philadelphia, Pa. Rug. Nos. 42,584–9; June 4; Gaz. vol. 179; pp. 264–5.
Petzold, Adolph, assignor to J. Bromley & Sons, Philadelphia, Pa. Rug. Nos. 42,671–2; June 25; Gaz. vol. 179; p. 1081.
Petzold, Adolph, assignor to J. Bromley & Sons, Philadelphia, Pa. Rug. Nos. 42,822–5; July 23; Gaz. vol. 180; p. 1121.

Alphabetical list of patentees of designs—Continued.

Petzold, Adolph, assignor to J. Bromley & Sons, Philadelphia, Pa. Rug. Nos. 42,878–80; Aug. 13; Gaz. vol. 181; p. 516.
Petzold, Adolph, assignor to J. Bromley & Sons, Philadelphia, Pa. Rug. Nos. 43,012–14; Sept. 10; Gaz. vol. 182; p. 489.
Petzold, Adolph, assignor to J. Bromley & Sons, Philadelphia, Pa. Rug. No. 43,247; Nov. 12; Gaz. vol. 184; p. 529.
Pfeiffer, William F., assignor to The Miller Rubber Company, Akron, Ohio. Elastic tire for vehicles. No. 42,423; Apr. 23; Gaz. vol. 177; p. 1020.
Pfeiffer, William F., assignor to The Miller Rubber Company, Akron, Ohio. Elastic tire for vehicles. No. 42,772; July 9; Gaz. vol. 180; p. 576.
Phinney, James E., Chicago, Ill. Lamp. No. 43,203; Oct. 29; Gaz. vol. 183; p. 1284.
Pick, Albert, Chicago, Ill. Goblet. Nos. 43,056–9; Sept. 24; Gaz. vol. 182; pp. 945–6.
Pick, Albert, Chicago, Ill. Goblet. No. 43,232; Nov. 5; Gaz. vol. 184; p. 266.
Pingree, Samuel S., St. Louis, Mo. Artificial bait for traps. No. 43,410; Dec. 31; Gaz. vol. 185; p. 1358.
Pioneer Suspender Company. (See Freeman, Richard J., assignor.)
Pittsburgh Lamp, Brass & Glass Company. (See Kopp, Nicholas, assignor.)
Plume & Atwood Manufacturing Company, The. (See Andersen, Lauritz W., assignor.)
Porsche, Ferdinand, Wiener-Neustadt, Austria-Hungary. Automobile-hood. No. 43,015; Sept. 10; Gaz. vol. 182; p. 489.
Potomac Glass Company, The. (See Sloan, Matthew H., assignor.)
Potter, Leo, New York, N. Y. Hand-bag. Nos. 42,369–72; Mar. 26; Gaz. vol. 176; pp. 1049–50.
Pratt, Philip W., Boston, Mass. Elastic tire. No. 42,526; May 14; Gaz. vol. 178; p. 571.
Pressler, Adolf W., Keene, N. H. Rocking-horse. Nos. 42,373–4; Mar. 26; Gaz. vol. 176; p. 1050.
Pressler, Adolf W., Keene, N. H. Rocking-horse. No. 42,409; Apr. 16; Gaz. vol. 177; p. 750.
Pretat, Frederick E., Waterbury, assignor to International Silver Co., Meriden, Conn. Spoon, fork, or similar article. (Reissue.) No. 13,359; Jan. 9; Gaz. vol. 174; p. 568.
Prior, Charles M., and C. Nelson, New York, assignors to S. Sternau and Company, Brooklyn, N. Y. Chafing-dish and stand. No. 43,060; Sept. 24; Gaz. vol. 182; p. 946.
Pritchard, Albert R., Rochester, N. Y. Lantern. No. 42,338; Mar. 19; Gaz. vol. 176; p. 730.
Public Service Cup Company. (See Claussen and Claus, assignors.)
Pupke, Eberhard L., East Orange, N. J. Lacing-hook. No. 42,543; May 21; Gaz. vol. 178; p. 860.
Purple, Mayo S., East Hampton, Conn. Signaling-horn. No. 43,158; Oct. 15; Gaz. vol. 183; p. 763.
Pyle National Electric Headlight Company. (See Dake and Kilker, assignors.)
R. Wallace & Sons Mfg. Co. (See Brown, Leslie A., assignor.)
R. Wallace & Sons Mfg. Co. (See Hillbom, Henrik, assignor.)
R. & G. Company. (See Anderson, Edward L., assignor.)
Rainey, George, Enid, Okla. Insect-trap. No. 42,298; Mar. 12; Gaz. vol. 176; p. 503.
Randall, Charles E., Evansville, Ind. Puzzle. No. 43,204; Oct. 29; Gaz. vol. 183; p. 1284.
Rauch & Lang Carriage Company, The. (See Lang, Charles E. J., assignor.)
Reading Crane & Hoist Works. (See Valentine, Herbert S., assignor.)
Ream, Harry M., assignor to Ream-McBee Company, Mansfield, Ohio. Monument. No. 42,975; Sept. 3; Gaz. vol. 182; p. 226.
Ream-McBee Company. (See Ream, Harry M., assignor.)
Recker, Adolph C., Oakville, assignor to Waterbury Manufacturing Co., Waterbury, Conn. Inverted gas-burner. No. 42,808; July 16; Gaz. vol. 180; p. 857.
Recker, Adolph C., Oakville, assignor to Waterbury Manufacturing Co., Waterbury, Conn. Vanity-box. No. 43,341; Dec. 10; Gaz. vol. 185; p. 508.
Rees, Leon, London, England, assignor to M. M. Schwarzschild, New York, N. Y. Doll-face. No. 42,881; Aug. 13; Gaz. vol. 181; p. 516.
Rees, Leon, London, England, asisgnor to M. M. Schwarzschild, New York, N. Y. Toy dog. No. 43,016; Sept. 10; Gaz. vol. 182; p. 490.
Rees, Leon, London, England, assignor to M. M. Schwarzschild, New York, N. Y. Toy cat. No. 43,017; Sept. 10; Gaz. vol. 182; p. 490.
Rees, Leon, London, England, assignor to M. M. Schwarzschild, New York, N. Y. Toy dog. Nos. 43,018–19; Sept. 10; Gaz. vol. 182; p. 490.
Rees, Leon, London, England, assignor to M. M. Schwarzchild, New York, N. Y. Doll-head. No. 43,159; Oct. 15; Gaz. vol. 183; p. 763.
Reichmuth, Erwin F., Denver, Colo. Combination bottle-opener and button-hook. No. 42,611; June 11; Gaz. vol. 179; p. 552.
Reininger, Augustus, San Francisco, Cal. Scarf-pin. No. 42,177; Feb. 13; Gaz. vol. 175; p. 522.
Reis, Julius M., New York, N. Y. Embroidery foundation. Nos. 42,700–5; July 2; Gaz. vol. 180; pp. 294–5.
Reischmann, Henry, New Rochelle, N. Y. Foot-rest for stools and the like. No. 42,773; July 9; Gaz. vol. 180; p. 577.
Reith, William G., New York, N. Y., assignor to Bigelow Carpet Company. Rug. No. 42,147; Feb. 6; Gaz. vol. 175; p. 242.
Reith, William G., New York, N. Y., assignor to Bigelow Carpet Company. Rug. No. 42,299; Mar. 12; Gaz. vol. 176; p. 503.
Reynolds, Foster A., Cleveland, Ohio. Cornet. No. 43,205; Oct. 29; Gaz. vol. 183; p. 1284.
Rice, Jacques B., New York, N. Y. Coffee, cream, and sugar set. No. 42,950; Aug. 27; Gaz. vol. 181; p. 1052.
Rich & Company, N. J. (See Sampliner, Samuel S., assignor.)
Richardson Ball Bearing Skate Company. (See Runion, Hoy, assignor.)
Richeson, Richard S., St. Louis, Mo. Vehicle-body. No. 42,075; Jan. 2; Gaz. vol. 174; p. 270.
Riddell, Robert F., Flushing, N. Y., assignor to Bigelow Carpet Company. Carpet. No. 42,148; Feb. 6; Gaz. vol. 175; p. 242.
Riddell, Robert F., Flushing, N. Y., assignor to Bigelow Carpet Company. Rug. No. 42,544; May 21; Gaz. vol. 178; p. 860.
Riddell, Robert F., Flushing, N. Y., assignor to Bigelow Carpet Company. Rug. No. 42,673; June 25; Gaz. vol. 179; p. 1081.
Riddell, Robert F., Flushing, N. Y., assignor to Bigelow Carpet Company. Rug. Nos. 42,706–7; July 2; Gaz. vol. 180; p. 295.
Riddell, Robert F., Flushing, N. Y., assignor to Bigelow Carpet Company. Rug. No. 43,322; Dec. 3; Gaz. vol. 185; p. 225.
Riddell, Robert F., Flushing, N. Y., assignor to Bigelow Carpet Company. Rug. Nos. 43,366–9; Dec. 24; Gaz. vol. 185; p. 1028.
Rieger, Ida, New York, N. Y., assignor to Alpha Embroidery Co., West New York, N. J. Lace. No. 42,590; June 4; Gaz. vol. 179; p. 265.
Rieger, Salomon, New York, N. Y. Combined razor-strop and mirror. No. 43,020; Sept. 10; Gaz. vol. 182; p. 490.
Riglander, Moses M., assignor to Hammel Riglander & Co., New York, N. Y. Engraver's block. No. 43,233; Nov. 5; Gaz. vol. 184; p. 266.
Riggs, Elwood, Omaha, Nebr. Nose-guard. No. 42,976; Sept. 3; Gaz. vol. 182; p. 226.
Robbins, Meyer L., New York, N. Y. Expansible chain. Nos. 43,234–5; Nov. 5; Gaz. vol. 184; p. 266.
Robbins, Rolland, Crafton, assignor to The Sanitary Fountain and Vending Machine Company, Pittsburgh, Pa. Stand for vending-machines. No. 42,591; June 4; Gaz. vol. 179; p. 265.
Robbins, Rolland, Crafton, assignor to Sanitary Fountain and Vending Machine Company, Pittsburgh, Pa. Vending-machine. No. 42,592; June 4; Gaz. vol. 179; p. 265.
Roberts, Henry P., assignor to Dorsey Manufacturing Company, Boston, Mass. Key-ring. No. 42,882; Aug. 13; Gaz. vol. 181; p. 516.
Robeson, Andrew, Newport, R. I. Metal hook. No. 43,061; Sept. 24; Gaz. vol. 182; p. 946.
Rochester Stamping Company. (See Swan, Alfred H. S., assignor.)
Rogers, Edward F., Gloversville, N. Y. Glove. No. 42,708; July 2; Gaz. vol. 180; p. 295.
Ronneburg, Francis A., Chicago, Ill. Aquarium. No. 43,062; Sept. 24; Gaz. vol. 182; p. 947.
Ross, James D., Seattle, Wash. Lamp-cluster. No. 42,859; Aug. 6; Gaz. vol. 181; p. 248.
Rothlisberger, Jacob, Muncie, Ill., assignor to Bourgeois Bros. Company, Chicago, Ill. Spoon, fork, or similar article. No. 43,411; Dec. 31; Gaz. vol. 185; p. 1359.
Rothschild, Max, New York, N. Y., assignor to Pacific Mills, Boston, Mass. Textile fabric or wall-paper. Nos. 42,235–6; Feb. 27; Gaz. vol. 175; pp. 1074–5.
Rountree, William, New York, N. Y. Binnacle. No. 43,084; Oct. 1; Gaz. vol. 183; p. 203.
Rouse, Sylvany M., New Orleans, La. Pack of playing-cards. No. 42,237; Feb. 27; Gaz. vol. 175; p. 1075.
Rousso, Jacques, Chicago, Ill. Towel-cabinet. No. 42,398; Apr. 9; Gaz. vol. 177; p. 502.
Roxbury Carpet Company. (See Lawton, Thomas L., assignor.)
Roxbury Carpet Company. (See Melville, David G., assignor.)
Roy, Joseph, Cleveland, Ohio, assignor to American Stove Company, St. Louis, Mo. Gas-heater. No. 42,178; Feb. 13; Gaz. vol. 175; p. 522.
Royal Metal Manufacturing Company. (See Travers, Charles J., assignor.)
Rubes, Ernest, Brooklyn, N. Y. Automobile-horn. No. 42,091; Jan. 9; Gaz. vol. 174; p. 572.
Rubin, Harry, New York, N. Y. Inverted gas arc-lamp. No. 43,347; Dec. 17; Gaz. vol. 185; p. 808.

Alphabetical list of patentees of designs—Continued.

Rubino, Joseph, Corona, N. Y., assignor to Thomas A. Edison, Incorporated, West Orange, N. J. Cabinet. Nos. 43,160–3; Oct. 15; Gaz. vol. 183; pp. 763–4.
Runion, George I., Elmhurst, Ill., assignor to National X-Ray Reflector Company. Reflector holder-bowl for lighting-fixtures. No. 42,593; June 4; Gaz. vol. 179; p. 265.
Runion, Hoy, Springfield, Mo., assignor to Richardson Ball Bearing Skate Company, Chicago, Ill. Foot-plate for roller-skates. No. 43,063; Sept. 24; Gaz. vol. 182; p. 947.
Russell, China, Columbus, Ohio. Newspaper-stand. No. 43,164; Oct. 15; Gaz. vol. 183; p. 764.
Rutherford Comb Company. (See Spill, Frank, assignor.)
S. S. White Dental Manufacturing Company, The. (See Gilbert, Edmund D., assignor.)
Saart, William H., Attleboro, Mass., assignor to The W. H. Saart Company. Picture-frame. Nos. 42,951–3; Aug. 27; Gaz. vol. 181; p. 1053.
Saart, William H., Attleboro, Mass., assignor to The W. H. Saart Company. Back for brushes, mirrors, or similar articles. No. 43,021; Sept. 10; Gaz. vol. 182; p. 491.
Safety Car Heating & Lighting Company, The. (See Schepmoes, Lindsley, assignor.)
Sager, James H., Rochester, N. Y. Automobile-bumper. No. 42,149; Feb. 6; Gaz. vol. 175; p. 242.
Salisbury, Orlando B., New York, N. Y. Hair-washing hood. No. 43,287; Nov. 26; Gaz. vol. 184; p. 1057.
Salzenstein, Solomon C., Peoria, Ill. Apron. No. 42,566; May 28; Gaz. vol. 178; p. 1129.
Sampliner, Samuel S., assignor to N. J. Rich & Company, Cleveland, Ohio. Flat-knit neckscarf or muffler. No. 42,238; Feb. 27; Gaz. vol. 175; p. 1076.
Sanders, Joseph H., Truckee, Cal. Watch-fob. No. 42,709; July 2; Gaz. vol. 180; p. 295.
Sanford, Andrew J., Newark, Ohio. Glass vessel. No. 42,260; Mar. 5; Gaz. vol. 176; p. 252.
Sanford, Andrew J., Newark, Ohio. Cruet. No. 42,594; June 4; Gaz. vol. 179; p. 265.
Sanford, Andrew J., assignor to A. H. Heisey & Co., Inc., Newark, Ohio. Dish. No. 42,110; Jan. 23; Gaz. vol. 174; p. 1008.
Sanford, Andrew J., assignor to A. H. Heisey & Co. Inc., Newark, Ohio. Salt-shaker. No. 42,441; Apr. 30; Gaz. vol. 177; p. 1274.
Sanford, Andrew J., assignor to A. H. Heisey & Co., Newark, Ohio. Molasses-pitcher. No. 42,612; June 11; Gaz. vol. 179; p. 552.
Sanford, Andrew J., assignor to A. H. Heisey & Co., Newark, Ohio. Vase. No. 42,648; June 18; Gaz. vol. 179; p. 830.
Sanford, Andrew J., assignor to A. H. Heisey & Co., Newark, Ohio. Goblet. No. 42,710; July 2; Gaz. vol. 180; p. 295.
Sanford, Andrew J., assignor to A. H. Heisey & Co., Newark, Ohio. Dish. No. 42,711; July 2; Gaz. vol. 180; p. 296.
Sanford, Andrew J., assignor to A. H. Heisey & Co., Newark, Ohio. Straw jar. No. 43,108; Oct. 8; Gaz. vol. 183; p. 481.
Sanford, Andrew J., assignor to A. H. Heisey & Co., Newark, Ohio. Domino-sugar tray. No. 43,109; Oct. 8; Gaz. vol. 183; p. 481.
Sanford, Andrew J., assignor to A. H. Heisey & Co., Newark, Ohio. Vase. No. 43,206; Oct. 29; Gaz. vol. 183; p. 1285.
Sanford, Andrew J., assignor to A. H. Heisey & Co., Newark, Ohio. Candlestick. No. 43,236; Nov. 5; Gaz. vol. 184; p. 266.
Sanitary Fountain and Vending Machine Company, The. (See Robbins, Rolland, assignor.)
Sargent & Company. (See Page, Albert A., assignor.)
Sargent & Company. (See Stevens, William E., assignor.)
Sauber, Franklin M., Lancaster, Pa. Campaign-badge. No. 43,370; Dec. 24; Gaz. vol. 185; p. 1029.
Sauer, Emil G., Richmond Hill, N. Y., assignor to Bigelow Carpet Company. Rug. No. 42,150; Feb. 6; Gaz. vol. 175; p. 242.
Sauer, Emil G., Richmond Hill, N. Y., assignor to Bigelow Carpet Company. Carpet. Nos. 42,300–3; Mar. 12; Gaz. vol. 176; p. 503.
Sauer, Emil G., Richmond Hill, N. Y., assignor to Bigelow Carpet Company. Rug. No. 42,304; Mar. 12; Gaz. vol. 176; p. 504.
Sauer, Emil G., Richmond Hill, N. Y., assignor to Bigelow Carpet Company. Carpet. Nos. 42,545–6; May 21; Gaz. vol. 178; p. 860.
Sauer, Emil G., Richmond Hill, N. Y., assignor to Bigelow Carpet Company. Rug. No. 42,674; June 25; Gaz. vol. 179; p. 1081.
Sauer, Emil G., Richmond Hill, N. Y., assignor to Bigelow Carpet Company. Rug. Nos. 42,883–92; Aug. 13; Gaz. vol. 181; pp. 517–19.
Sauer, Emil G., Richmond Hill, N. Y., assignor to Bigelow Carpet Company. Rug. Nos. 43,323–4; Dec. 3; Gaz. vol. 185; p. 226.
Sauer, Emil G., Richmond Hill, N. Y., assignor to Bigelow Carpet Company. Rug. Nos. 43,371–7; Dec. 24; Gaz. vol. 185; pp. 1029–30.
Sauer, Emil G., Richmond Hill, N. Y., assignor to Bigelow Carpet Company. Rug-border. No. 43,378; Dec. 24; Gaz. vol. 185; p. 1030.
Savill, Thomas M., Philadelphia, Pa. Bib. No. 42,649; June 18; Gaz. vol. 179; p. 830.
Sayers, William E., assignor to The Hartford Carpet Corporation, Thompsonville, Conn. Carpet or rug. No. 42,239; Feb. 27; Gaz. vol. 175; p. 1076.
Sayers, William E., assignor to The Hartford Carpet Corporation, Thompsonville, Conn. Carpet or rug. No. 42,774; July 9; Gaz. vol. 180; p. 577.
Sayers, William E., assignor to The Hartford Carpet Corporation, Thompsonville, Conn. Carpet or rug. Nos. 42,893–6; Aug. 13; Gaz. vol. 181; pp. 519–20.
Schaetzel, Francois J., Stapleton, N. Y., assignor to Pacific Mills, Boston, Mass. Textile fabric or wall-paper. Nos. 42,240–9; Feb. 27; Gaz. vol. 175; pp. 1076–8.
Schank, John C. (See Hine and Schank.)
Schepmoes, Lindsley, Hasbrouck Heights, N. J., assignor to The Safety Car Heating & Lighting Company. Lamp. Nos. 42,712–13; July 2; Gaz. vol. 180; p. 296.
Schepmoes, Lindsley, Hasbrouck Heights, N. J., assignor to Safety Car Heating & Lighting Company. Lamp. No. 42,860; Aug. 6; Gaz. vol. 181; p. 248.
Schepmoes, Lindsley, Hasbrouck Heights, N. J., assignor to The Safety Car Heating & Lighting Co., New York, N. Y. Lamp-fixture. No. 43,110; Oct. 8; Gaz. vol. 183; p. 481.
Schepmoes, Lindsley, Hasbrouck Heights, N. J., assignor to The Safety Car Heating & Lighting Co., New York, N. Y. Candelabrum. No. 43,111; Oct. 8; Gaz. vol. 183; p. 482.
Schepmoes, Lindsley, Hasbrouck Heights, N. J., assignor to The Safety Car Heating & Lighting Co., New York, N. Y. Berth-light fixture. No. 43,112; Oct. 8; Gaz. vol. 183; p. 482.
Schepmoes, Lindsley, Hasbrouck Heights, N. J., assignor to The Safety Car Heating & Lighting Co., New York, N. Y. Berth-lamp fixture. No. 43,113; Oct. 8; Gaz. vol. 183; p. 482.
Schepmoes, Lindsley, Hasbrouck Heights, N. J., assignor to The Safety Car Heating & Lighting Co., New York, N. Y. Pendant-fixture. Nos. 43,114–16; Oct. 8; Gaz. vol. 183; pp. 482–3.
Schepmoes, Lindsley, Hasbrouck Heights, N. J., assignor to The Safety Car Heating & Lighting Co., New York, N. Y. Bracket-lamp fixture. No. 43,117; Oct. 8; Gaz. vol. 183; p. 483.
Schepmoes, Lindsley, Hasbrouck Heights, N. J., assignor to The Safety Car Heating & Lighting Co., New York, N. Y. Deck-lamp fixture. Nos. 43,118–20; Oct. 8; Gaz. vol. 183; pp. 483–4.
Schepmoes, Lindsley, Hasbrouck Heights, N. J., assignor to The Safety Car Heating & Lighting Co., New York, N. Y. Lamp-bowl. No. 43,121; Oct. 8; Gaz. vol. 183; p. 484.
Schepmoes, Lindsley, Hasbrouck Heights, N. J., assignor to The Safety Car Heating & Lighting Co., New York, N. Y. Deck-lamp fixture. Nos. 43,165–6; Oct. 15; Gaz. vol. 183; p. 764.
Schepmoes, Lindsley, Hasbrouck Heights, N. J., assignor to The Safety Car Heating & Lighting Co., New York, N. Y. Deck-lamp fixture. No. 43,237; Nov. 5; Gaz. vol. 184; p. 266.
Scheuer, Jacob H., New York, N. Y. Military hair-brush. No. 42,954; Aug. 27; Gaz. vol. 181; p. 1053.
Scheuer, Jacob H., New York, N. Y. Military hair-brush. Nos. 43,180–1; Oct. 22; Gaz. vol. 183; pp. 1012–13.
Scheuer, Jacob H., New York, N. Y. Toilet-brush. No. 43,182; Oct. 22; Gaz. vol. 183; p. 1013.
Schilling, Arthur, Rochester, N. Y., assignor to American Poultry Association, Mansfield, Ohio. Emblem. No. 42,926; Aug. 20; Gaz. vol. 181; p. 801.
Schindler, Francis, Scarsdale, N. Y., assignor to Bigelow Carpet Company. Rug. Nos. 42,675–6; June 25; Gaz. vol. 179; p. 1082.
Schindler, Francis, Scarsdale, N. Y., assignor to Bigelow Carpet Company. Rug. No. 43,379; Dec. 24; Gaz. vol. 185; p. 1031.
Schlesinger, Leo, New York, N. Y. Horn. No. 42,650; June 18; Gaz. vol. 179; p. 830.
Schloss, Newton L., New York, N. Y. Elevator-signal-light box. No. 42,677; June 25; Gaz. vol. 179; p. 1082.
Schloss, Newton L., New York, N. Y. Elevator-indicator. No. 43,288; Nov. 26; Gaz. vol. 184; p. 1057.
Schmid, Ernest E., Jamaica, N. Y. Strain-insulator. No. 43,342; Dec. 10; Gaz. vol. 185; p. 508.
Schmidt, Max, Cincinnati, Ohio. Operating-table top. No. 42,179; Feb. 13; Gaz. vol. 175; p. 522.
Schmitz, George C., Racine, Wis., assignor to The McCrum-Howell Company. Pneumatic-cleaner casing. No. 43,380; Dec. 24; Gaz. vol. 185; p. 1031.
Schnelbach, Harry A., Steubenville, Ohio, assignor to Jefferson Glass Company, Follansbee, W. Va. Lamp-shade. Nos. 42,111–12; Jan. 23; Gaz. vol. 174 p. 1008.
Schnelbach, Harry A., Steubenville, Ohio, assignor to Jefferson Glass Company, Follansbee, W. Va. Lamp-shade. No. 42,151; Feb. 6; Gaz. vol. 175; p. 243.
Schultze, Carl E., New York, N. Y. Statuette. Nos. 42,261–2; Mar. 5; Gaz. vol. 176; pp. 252–3.
Schulze, Richard, Wallingford, assignor to International Silver Co., Meriden, Conn. Spoon, fork, or similar article. No. 42,977; Sept. 3; Gaz. vol. 182; p. 226.

Alphabetical list of patentees of designs—Continued.

Schulze, Richard, Wallingford, assignor to International Silver Co., Meriden, Conn. Spoon, fork, or similar article. No. 43,022; Sept. 10; Gaz. vol. 182; p. 491.
Schulze, Richard, Wallingford, assignor to International Silver Co., Meriden, Conn. Spoon, fork, or similar article. No. 43,343; Dec. 10; Gaz. vol. 185; p. 508.
Schumacher, Gerard, assignor to Union Foundry Company, Anniston, Ala. Street-light post. No. 42,193; Feb. 20; Gaz. vol. 175; p. 824.
Schwarber, Henry, Hoboken, assignor to Inflexible Company, West New York, N. J. Lace. No. 43,258; Nov. 19; Gaz. vol. 184; p. 785.
Schwartz, Edward, assignor to Pelouze Manufacturing Co., Chicago, Ill. Scale. No. 42,861; Aug. 6; Gaz. vol. 181; p. 248.
Schwartz, Edward, assignor to The Pelouze Manufacturing Company, Chicago, Ill. Electrically-heated toaster. No. 43,023; Sept. 10; Gaz. vol. 182; p. 491.
Schwarz, Ernest, Lancaster, Pa. Handle for carving sets. No. 43,381; Dec. 24; Gaz. vol. 185; p. 1031.
Schwarzschild, Monroe M. (See Rees, Leon, assignor.)
Scott, William H., Jr., assignor to Susquehanna Silk Mills, New York, N. Y. Scarf. No. 42,517; May 14; Gaz. vol. 178; p. 569.
Scruggs, Loyd, assignor to Copper Clad Malleable Range Company, St. Louis, Mo. Coal-range. No. 42,375; Mar. 26; Gaz. vol. 176; p. 1050.
Sedgwick, William, Newton, Iowa. Menu and chandelier stand. No. 42,955; Aug. 27; Gaz. vol. 181; p. 1053.
Seeburg, Justus P., Chicago, Ill. Piano-case. No. 42,862; Aug. 6; Gaz. vol. 181; p. 249.
Seybold, Lorentz M., assignor to Ketcham & McDougall, New York, N. Y. Sewing-thimble. Nos. 42,978–80; Sept. 3; Gaz. vol. 182; p. 226.
Shaw, Edwin C., Akron, Ohio, assignor, by mesne assignments, to The B. F. Goodrich Company. Tire-tread. No. 43,348; Dec. 17; Gaz. vol. 185; p. 808.
Shaw, Edwin C., Akron, Ohio, assignor, by mesne assignments, to The B. F. Goodrich Company, Tire-tread. No. 43,412; Dec. 31; Gaz. vol. 185; p. 1359.
Sherman, Alvin G., Detroit, Mich. Gas-burner. No. 42,339; Mar. 19; Gaz. vol. 176; p. 730.
Shuman, Frank, Philadelphia, Pa., assignor to Pennsylvania Wire Glass Company. Sheet-glass. No. 43,349; Dec. 17; Gaz. vol. 185; p. 808.
Shunk, Harry O., Denver, Colo. Cigar and cigarette holder. No. 42,092; Jan. 9; Gaz. vol. 174; p. 572.
Silbermann, Philipp, New York, N. Y. Jewel-setting. No. 42,381; Apr. 2; Gaz. vol. 177; p. 221.
Sill Stove Works. (See Will, Blanca, assignor.)
Sill Stove Works. (See Will and Becker, assignors.)
Simms, Charles F., Attleboro, Mass., assignor to Watson & Newell Company. Handle for spoons, forks, or similar articles. Nos. 42,775–6; July 9; Gaz. vol. 180; p. 577.
Simons, Elmer O., Los Angeles, Cal. Vase. Nos. 42,399–402; Apr. 9; Gaz. vol. 177; p. 502.
Simons, Elmer O., Los Angeles, Cal. Vase. No. 42,494; May 7; Gaz. vol. 178; p. 300.
Slattery, Mary F., New York, N. Y. Badge. No. 42,651; June 18; Gaz. vol. 179; p. 831.
Sloan, Matthew H., assignor to The Potomac Glass Company, Cumberland, Md. Drinking vessel or similar article. No. 42,113; Jan. 23; Gaz. vol. 174; p. 1008.
Smith, Horace M., assignor to The Liquid Carbonic Company, Chicago, Ill. Mixing-tank for carbonators. No. 42,547; May 21; Gaz. vol. 178; p. 861.
Smith, Oliver A., Springfield, Mass. Vegetable-knife. No. 42,194; Feb. 20; Gaz. vol. 175; p. 824.
Soley, Frank, Philadelphia, assignor to Miller-Lock Company, Frankford, Philadelphia, Pa. Key. No. 42,152; Feb. 6; Gaz. vol. 175; p. 243.
Solon Palmer, Inc. (See Palmer, Eddy, assignor.)
Sommer, John L., Newark, N. J., assignor to J. L. Sommer Mfg. Co. Bottle-opener. Nos. 42,305–6; Mar. 12; Gaz. vol. 176; p. 504.
Sommer, William H., Peoria, Ill. Stay or picket for fences or gates. No. 42,981; Sept. 3; Gaz. vol. 182; p. 227.
Sommer, William H., Peoria, Ill. Fence. No. 42,982; Sept. 3; Gaz. vol. 182; p. 227.
Sonn, Edwin J., Newark, N. J., assignor to Eastern Bottlers Supply Company, New York, N. Y. Label-blank. Nos. 43,027–9; Sept. 17; Gaz. vol. 182; pp. 710–11.
Sorensen, Louis B., assignor to United Ancient Order of Druids, New Orleans, La. Badge. No. 43,167; Oct. 15; Gaz. vol. 183; p. 764.
Sorensen, Louis B., assignor to United Ancient Order of Druids, New Orleans, La. Badge. No. 43,207; Oct. 29; Gaz. vol. 183; p. 1285.
Southwick, Albert A., New York, N. Y. Handle for spoons, forks, or similar articles. No. 42,424; Apr. 23; Gaz. vol. 177; p. 1020.
Sovereign Grand Lodge of The Independent Order of Odd Fellows, The. (See Goodwin, John B., assignor.)
Spahr, Otto, and C. Stichler, Philadelphia, Pa. Sad-iron. No. 42,443; Apr. 30; Gaz. vol. 177; p. 1274.
Spear, Furman D., assignor to Armspear Manufacturing Company, New York, N. Y. Signal-lamp. No. 43,344; Dec. 10; Gaz. vol. 185; p. 508.
Spellman, Herbert W., assignor to Landers, Frary and Clark, New Britain, Conn. Stand for electrically-driven machines. No. 42,442; Apr. 30; Gaz. vol. 177; p. 1274.
Spill, Frank, Rutherford, assignor to Rutherford Comb Company, East Rutherford, N. J. Barrette. No. 42,527; May 14; Gaz. vol. 178; p. 571.
Spindler, Oscar, Chicago, Ill., assignor to National X-Ray Reflector Company. Reflector holder-bowl for lighting-fixtures. Nos. 42,863–4; Aug. 6; Gaz. vol. 181; p. 249.
Spirup, Louis, Audubon, Iowa. Breastpin. No. 42,250; Feb. 27; Gaz. vol. 175; p. 1078.
Sprague, Elizabeth B., Spokane, Wash. Stove-leg. No. 42,652; June 18; Gaz. vol. 179; p. 831.
Spring, John, New York, N. Y., assignor to Bigelow Carpet Company. Carpet. No. 42,153; Feb. 6; Gaz. vol. 175; p. 243.
Spring, John, New York, N. Y., assignor to Bigelow Carpet Company. Rug. Nos. 42,154–7; Feb. 6; Gaz. vol. 175; pp. 243–4.
Spring, John, New York, N. Y., assignor to Bigelow Carpet Company. Carpet. Nos. 42,307–8; Mar. 12; Gaz. vol. 176; p. 504.
Spring, John, New York, N. Y., assignor to Bigelow Carpet Company. Carpet. Nos. 42,548–51; May 21; Gaz. vol. 178; p. 861.
Spring, John, New York, N. Y., assignor to Bigelow Carpet Company. Rug. No. 42,552; May 21; Gaz. vol. 178; p. 861.
Spring, John, New York, N. Y., assignor to Bigelow Carpet Company. Rug. No. 42,714; July 2; Gaz. vol. 180; p. 296.
Spring, John, New York, N. Y., assignor to Bigelow Carpet Company. Rug. Nos. 42,897–9; Aug. 13; Gaz. vol. 181; pp. 520–1.
Spring, John, New York, N. Y., assignor to Bigelow Carpet Company. Rug. No. 43,325; Dec. 3; Gaz. vol. 185; p. 226.
Spring, John, New York, N. Y., assignor to Bigelow Carpet Company. Rug. Nos. 43,382–5; Dec. 24; Gaz. vol. 185; pp. 1031–2.
Spring, William A., Brooklyn, N. Y., assignor to Bigelow Carpet Company. Rug. Nos. 42,678–9; June 25; Gaz. vol. 179; pp. 1082–3.
Spring, William A., Brooklyn, N. Y., assignor to Bigelow Carpet Company. Rug. Nos. 42,715–16; July 2; Gaz. vol. 180; pp. 296–7.
Spring, William A., Brooklyn, N. Y., assignor to Bigelow Carpet Company. Rug. Nos. 42,900–1; Aug. 13; Gaz. vol. 181; p. 521.
Spring, William A., Brooklyn, N. Y., assignor to Bigelow Carpet Company. Rug. Nos. 43,326–8; Dec. 3; Gaz. vol. 185; pp. 226–7.
Spring, William A., Brooklyn, N. Y., assignor to Bigelow Carpet Company. Rug. Nos. 43,386–7; Dec. 24; Gaz. vol. 185; p. 1032.
St. Louis Lightning Rod Company. (See Kretzer, Sidney D., assignor.)
St. Marie, Ovide, Astoria, N. Y. Die-holder. No. 42,922; Aug. 20; Gaz. vol. 181; p. 800.
Stake, Leslie M., San Diego, Cal. Cribbage-board. No. 42,595; June 4; Gaz. vol. 179; p. 266.
Standard Engraving and Cut Glass Company. (See Carlson, Albin, assignor.)
Starch, Benjamin and E., La Crosse, Wis. Centrifugal-separator frame. No. 42,309; Mar. 12; Gaz. vol. 176; p. 504.
Starch, Emil. (See Starch, Benjamin and E.)
Steffens, Emil, Jr., and H. A. Jones, Rutherford, N. J. Cigar-band. Nos. 42,777–88; July 9; Gaz. vol. 180; pp. 577–8.
Steffens, Emil, Jr., and H. A. Jones, Rutherford, N. J. Label-blank. No. 43,168; Oct. 15; Gaz. vol. 183; p. 765.
Steffens, Emil, Jr., and H. A. Jones, Rutherford, N. J. Cigar-band. Nos. 43,388–90; Dec. 24; Gaz. vol. 185; pp. 1032–3.
Steiger, Howard W., Lakewood, Ohio. Emblem. No. 42,495; May 7; Gaz. vol. 178; p. 300.
Stellwagen, Stephen A., Minneapolis, Minn., G. B. Carter and W. L. Bertram, Detroit, Mich., assignors to The Foster Stove Company, Ironton, Ohio. Stove. No. 43,183; Oct. 22; Gaz. vol. 183; p. 1013.
Stengel, George J., Yonkers, assignor to Alexander Smith & Sons Carpet Company, New York, N. Y. Rug. Nos. 42,613–14; June 11; Gaz. vol. 179; p. 552.
Sternau & Company, S. (See Nelson, Charles, assignor.)
Sternau and Company, S. (See Prior and Nelson, assignors.)
Sternau & Company, S. (See Sternau, Sigmund, assignor.)
Sternau & Company, S. (See Sternau and Nelson, assignors.)
Sternau & Company, S. (See Strassburger and Nelson, assignors.)
Sternau, Sigmund, assignor to S. Sternau & Company, New York, N. Y. Washrag or towel holder. No. 43,289; Nov. 26; Gaz. vol. 184; p. 1057.
Sternau, Sigmund, and C. Nelson, New York, assignors to S. Sternau & Company, Brooklyn, N. Y. Kettle and stand. No. 43,122; Oct. 8; Gaz. vol. 183; p. 484.

Alphabetical list of patentees of designs—Continued.

Steslicki, John J., Detroit, Mich. Cabinet. No. 42,717; July 2; Gaz. vol. 180; p. 297.
Stevens, William E., assignor to Sargent & Company, New Haven, Conn. Casket-trimming. No. 42,093; Jan. 9; Gaz. vol. 174; p. 572.
Stewart, Elsie, Germania, Iowa. Pincushion. No. 42,340; Mar. 19; Gaz. vol. 176; p. 730.
Stewart, Horace P., Grand Rapids, Mich. Clasp. No. 42,114; Jan. 23; Gaz. vol. 174; p. 1008.
Stewart, Walter G., assignor to Columbian Cutlery Company, Reading, Pa. Grass-hook. No. 42,310; Mar. 12; Gaz. vol. 176; p. 505.
Stichler, Charles. (See Spahr and Stichler.)
Stickley, Gustav, Morris Plains, N. J. Andiron. No. 42,653; June 18; Gaz. vol. 179; p. 831.
Stickley, Gustav, Morris Plains, N. J. Removable front for fireplaces. No. 42,789; July 9; Gaz. vol. 180; p. 578.
Stockstrom, Louis, St. Louis, Mo. Oil-stove reservoir. No. 42,567; May 28; Gaz. vol. 178; p. 1129.
Stockton, Elmer E., assignor to The E. Ingraham Co., Bristol, Conn. Clock-case. No. 42,444; Apr. 30; Gaz. vol. 177; p. 1274.
Stockton, Elmer E., assignor to The E. Ingraham Co., Bristol, Conn. Ring-head for alarm-clocks. No. 42,983; Sept. 3; Gaz. vol. 182; p. 227.
Stoll, Frank M., Denver, Colo. Motor-cycle rear seat. No 43,238; Nov. 5; Gaz. vol. 184; p. 267.
Stone, Elmer B., New Britain, Conn. Key. No. 42,094; Jan. 9; Gaz. vol. 174; p. 572.
Storms, William E., assignor to Colonial Electric Car Co., Detroit, Mich. Motor-vehicle body. No. 43,329; Dec. 3; Gaz. vol. 185; p. 227.
Strassburger, Lionel, and C. Nelson, New York, assignors to S. Sternau & Company, Brooklyn, N. Y. Crumb-scraper. Nos. 43,123–5; Oct. 8; Gaz. vol. 183; p. 485.
Straus & Sons, L. (See Marcus, Carl R., assignor.)
Strause, Edmund A., Los Angeles, Cal. Glass-holder. No. 42,425; Apr. 23; Gaz. vol. 177; p. 1020.
Strauss, George C. (See Kendt, William F., assignor.)
Strauss Manufacturing Company. (See Hall, Frank H., assignor.)
Street, Lulabelle, Tucumcari, N. Mex. Abdominal band. No. 42,195; Feb. 20; Gaz. vol. 175; p. 824.
Streeter, Nelson R., Syracuse, N. Y. Vegetable-masher. No. 43,064; Sept. 24; Gaz. vol. 182; p. 947.
Strohhaker, Gustave, Wallingford, assignor to International Silver Co., Meriden, Conn. Spoon, fork, or similar article. (Reissue.) No. 13,360; Jan. 9; Gaz. vol. 174; p. 568.
Strong, James H., Steubenville, Ohio. Reflector-shade. No. 42,403; Apr. 9; Gaz. vol. 177; p. 503.
Strong, James H., Steubenville, Ohio. Shade-bowl. No. 42,718; July 2; Gaz. vol. 180; p. 297.
Stuver, Eva C., Tacoma, Wash. Baby-spoon. No. 43,208; Oct. 29; Gaz. vol. 183; p. 1285.
Sugden, John L., assignor to E. R. Thomas Motor Car Company, Buffalo, N. Y. Cap for wheel-hubs. No. 43,085; Oct. 1; Gaz. vol. 183; p. 203.
Summer, Joseph. Providence, R. I. Ornamental stock for combs. No. 42,956; Aug. 27; Gaz. vol. 181; p. 1053.
Susquehanna Silk Mills. (See Scott, William H., Jr., assignor.)
Swan, Alfred H. S., assignor to Rochester Stamping Company, Rochester, N. Y. Chafing-dish. Nos. 42,341–2; Mar. 19; Gaz. vol. 176; p. 731.
Szathmary, Paul, Clarence, N. Y. Centerpiece for tables. No. 42,115; Jan. 23; Gaz. vol. 174; p. 1009.
Talamini, Emil, New York, N. Y. Tile-facing. Nos. 42,404–5; Apr. 9; Gaz. vol. 177; p. 503.
Tatum, Charles A., assignor to Whitall Tatum Co., New York, N. Y. Fountain-syringe bag. No. 42,809; July 16; Gaz. vol. 180; p. 857.
Taussig, Maurice, Chicago, Ill. Leg for store furniture. No. 43,169; Oct. 15; Gaz. vol. 183; p. 765.
Taylor, Charles H. (See Luckock and Taylor.)
Taylor, James S., Newburgh, N. Y. Directory. No. 42,596; June 4; Gaz. vol. 179; p. 266.
Teasdale, William C., Jr., assignor to The Motor Car Mfg. Co., Indianapolis, Ind. Wheel. No. 43,330; Dec. 3; Gaz. vol. 185; p. 227.
Teen, Kaleel, Jersey City, N. J. Printed crape. No. 42,826; July 23; Gaz. vol. 180; p. 1122.
Terry, Reed A., Omaha, Nebr. Skirt-gage. No. 42,654; June 18; Gaz. vol. 179; p. 831.
Tessier, Mortimer V., Nyack, assignor to American Tobacco Company, New York, N. Y. Can or container. Nos. 43,290–1; Nov. 26; Gaz. vol. 184; p. 1057.
Theiss Co., Frank. (See Theiss, Frank, assignor.)
Theiss, Frank, Irvington, assignor to F. Theiss Co., Newark, N. J. Musical-instrument case. No. 42,984; Sept. 3; Gaz. vol. 182; p. 227.
Thiel, Carl H., Freiberg, Germany. Liqueur-bottle. No. 43,248; Nov. 12; Gaz. vol. 184; p. 529.
Thiem, Rudolph, Hamilton, Ohio, assignor to Atlanta Stove Works, Atlanta, Ga. Stove. No. 42,790; July 9; Gaz. vol. 180; p. 579.
Thomas, Earl B., Atlantic City, N. J. Medallion. No. 43,249; Nov. 12; Gaz. vol. 184; p. 530.
Thomas Maddocks Sons Company. (See Kelly, John F., assignor.)
Thompson, Charles E., assignor to Luxury Sales Company, Troy, N. Y. Massage device. No. 42,119; Jan. 30; Gaz. vol. 174; p. 1196.
Thompson, Charles E., assignor to Luxury Sales Company, Troy, N. Y. Shaving-brush. No. 42,120; Jan. 30; Gaz. vol. 174; p. 1196.
Thompson, Charles E., assignor to Luxury Sales Company, Troy, N. Y. Rubber finger-pad for massage devices. No. 42,121; Jan. 30; Gaz. vol. 174; p. 1196.
Thompson, Russell D. A., Beaver, Pa., assignor to Gill Brothers Company, Steubenville, Ohio. Shade-bowl. No. 42,927; Aug. 20; Gaz. vol. 181; p. 801.
Thoré, Wendell P., Boston, Mass., assignor to General Electric Company. Light-fixture. No. 42,528; May 14; Gaz. vol. 178; p. 572.
Thoré, Wendell P., Boston, Mass., assignor to General Electric Company. Lamp and support. No. 43,292; Nov. 26; Gaz. vol. 184; p. 1058.
Tilden, Bert O., assignor to American Sanitary Works, New York, N. Y. Water-closet seat and cover. No. 42,985; Sept. 3; Gaz. vol. 182; p. 227.
Todd, Edward, Jr., Brooklyn, N. Y. Spoon, fork, or similar article. No. 42,568; May 28; Gaz. vol. 178; p. 1129.
Toledo Computing Scale Company. (See Wetzel, Lewis C., assignor.)
Tolfree, Frederick W., Belleville, N. J., assignor to Joseph Dixon Crucible Company, Jersey City, N. J. Pencil-case or similar article. No. 42,553; May 21; Gaz. vol. 178; p. 862.
Torluemke, Herman, St. Louis, Mo. Toy. No. 42,376; Mar. 26; Gaz. vol. 176; p. 1050.
Towle Manufacturing Company. (See Colby, Edward H., assignor.)
Towle Manufacturing Company. (See Lunt, Ernest M., assignor.)
Trautwein, Walter E., Fort Wayne, Ind. Display-board. No. 42,426; Apr. 23; Gaz. vol. 177; p. 1021.
Travers, Charles J., assignor to Royal Metal Manufacturing Company, Chicago, Ill. Wire chair. No. 42,529; May 14; Gaz. vol. 178; p. 572.
Trego, Frank H., Buffalo, N. Y. Vehicle-axle. No. 42,406; Apr. 9; Gaz. vol. 177; p. 503.
Trenton Potteries Company. (See Campbell, John A., assignor.)
Trik, Ernest W., Brooklyn, N. Y., assignor to Bigelow Carpet Company. Rug. No. 42,158; Feb. 6; Gaz. vol. 175; p. 244.
Trik, Ernest W., Brooklyn, N. Y., assignor to Bigelow Carpet Company. Carpet. Nos. 42,311–13; Mar. 12; Gaz. vol. 176; p. 505.
Trik, Ernest W., Brooklyn, N. Y., assignor to Bigelow Carpet Company. Carpet. No. 42,554; May 21; Gaz. vol. 178; p. 862.
Trik, Ernest W., Brooklyn, N. Y., assignor to Bigelow Carpet Company. Rug. No. 42,719; July 2; Gaz. vol. 180; p. 297.
Trik, Ernest W., Brooklyn, N. Y., assignor to Bigelow Carpet Company. Rug. Nos. 42,902–3; Aug. 13; Gaz. vol. 181; pp. 521–2.
Trik, Ernest W., Brooklyn, N. Y., assignor to Bigelow Carpet Company. Rug. Nos. 43,391–7; Dec. 24; Gaz. vol. 185; pp. 1033–4.
Trimont Manufacturing Company. (See Vinton, John H., assignor.)
Trorlicht Duncker Carpet Co. (See Lawton, Thomas L., assignor.)
Trueblood, Walter L., Des Moines, Iowa. Badge. No. 42,680; June 25; Gaz. vol. 179; p. 1083.
Turnbull, Joseph G., New York, N. Y. Bracket. No. 42,382; Apr. 2; Gaz. vol. 177; p. 221.
Turner, Albert C., San Francisco, Cal. Badge. No. 42,116; Jan. 23; Gaz. vol. 174; p. 1009.
Turner, Kelley M. (See Lowe, Haff, and Andrick, assignors.)
Tuteur, Charles, assignor of one-third to S. Kahn, New York, N. Y. Pulley-casing. No. 42,720; July 2; Gaz. vol. 180; p. 297.
Tuttle, Washington I., Baltimore, Md. assignor to American Tobacco Company, New York, N. Y. Can or container. No. 43,239; Nov. 5; Gaz. vol. 184; p. 267.
Tyson Company, The. (See Tyson, Frank, assignor.)
Tyson, Frank, assignor to The Tyson Company, Canton, Ohio. Ice-cream-freezer base. No. 42,377; Mar. 26; Gaz. vol. 176; p. 1051.
Tyson, Frank, assignor to The Tyson Company, Canton, Ohio. Ice-cream freezer. No. 42,791; July 9; Gaz. vol. 180; p. 579.
Underwood, Jesse C., Missoula, Mont. Dish. No. 42,615; June 11; Gaz. vol. 179; p. 552.
Ungrich, Martin L., Brooklyn, N. Y. Soap-dish. No. 42,518; May 14; Gaz. vol. 178; p. 570.
Union Foundry Company. (See Schumacher, Gerard, assignor.)
Union Trust Company. (See Greenburg, George G., assignor.)
United Ancient Order of Druids. (See Sorensen, Louis B., assignor.)
United Electric Company, The. (See Goughnour, Charles L., assignor.)

Alphabetical list of patentees of designs—Continued.

United States Cashier Company. (See Bilyeu, Thomas, assignor.)
United States Glass Company. (See Anderson, Walter C., assignor.)
United States Glass Company. (See Haley, Reuben, assignor.)
United States Music Company. (See Friestedt, Arthur A., assignor.)
United Stores Association. (See Onffroy, Roland, assignor.)
Unterreiner, Martin, Cape Girardeau, Mo. Work-stand. No. 42,865; Aug. 6; Gaz. vol. 181; p. 249.
Vacuum Cleaner Manufacturing Company. (See Hershey, Eusebius E., assignor.)
Valentine, Herbert S., assignor to Reading Crane & Hoist Works, Reading, Pa. Electric-hoist casing. No. 43,065; Sept. 24; Gaz. vol. 182; p. 947.
Valentine, Herbert S., assignor to Reading Crane & Hoist Works, Reading, Pa. Motor-casing for electric hoists. No. 43,066; Sept. 24; Gaz. vol. 182; p. 947.
Valerius, Anton. (See Larsen and Valerius.)
Van Bergh Silver Plate Co., The. (See Leavenworth, Seth H., assignor.)
Van Deusen, Albert H., Washington, D. C. Badge. No. 42,986; Sept. 3; Gaz. vol. 182; p. 227.
Van Duzer, Isaac O., New York, N. Y. Covering for boxes or books. No. 42,410; Apr. 16; Gaz. vol. 177; p. 750.
Van Etten, Francis M., Buffalo, N. Y. Spoon. No. 42,935; Aug. 27; Gaz. vol. 181; p. 1050.
Van Riper, Anthony B., Paterson, N. J. Banner. No. 43,170; Oct. 15; Gaz. vol. 183; p. 765.
Van Sant, Richard L., Ardmore, Pa., assignor of one-half to W. A. Botts, Llanerch, Del. Toy. No. 42,681; June 25; Gaz. vol. 179; p. 1083.
Vandiver, Leslie A., Chicago, Ill. Show-case. No. 42,076; Jan. 2; Gaz. vol. 174; p. 270.
Vaughan, Harry L., Chicago, Ill. Pocket bottle-opener. No. 42,445; Apr. 30; Gaz. vol. 177; p. 1274.
Victor, Alexander F., Davenport, Iowa. Picture-display-machine body. No. 42,496; May 7; Gaz. vol. 178; p. 300.
Victor Jar Company. (See Eichhorn, Jacob C., assignor.)
Victor Talking Machine Company. (See Kieffer, Eugene T., assignor.)
Vieweg, Fred J., Jersey City, N. J. Braid ornament. Nos. 42,827–8; July 23; Gaz. vol. 180; p. 1122.
Villontreix, Catherine M., Limoges, France. Plate or similar article. No. 43,240; Nov. 5; Gaz. vol. 184; p. 267.
Vinton, John H., Jamaica Plain, Mass., assignor to Trimont Manufacturing Company, Boston, Mass. Housing for wrenches. No. 42,343; Mar. 19; Gaz. vol. 176; p. 731.
Voight, Henry G., New Britain, Conn. Escutcheon-plate. Nos. 42,446–7; Apr. 30; Gaz. vol. 177; p. 1275.
W. B. McLean Mfg. Co. (See McLean, Walter M., assignor.)
W. H. Saart Company, The. (See Saart, William H., assignor.)
Wacha, John C., Providence, R. I., assignor to G. H. Cahoone Company. Display-stand for jewelry. Nos. 42,655–6; June 18; Gaz. vol. 179; p. 831.
Wachter, Louis E. F., Hartford, Conn. Wrist-watch and holder. No. 42,657; June 18; Gaz. vol. 179; p. 832.
Wadsworth Watch Case Company, The. (See Jeffery, Harold L., assignor.)
Wagner, Frank. (See Wagner, William L. and F.)
Wagner, William L. and F., Cleveland, Ohio. Candelabrum. No. 42,843; July 30; Gaz. vol. 180; p. 1375.
Wait, George E., and J. R. White, assignors to The Ober Manufacturing Company, Chagrin Falls, Ohio. Sad-iron handle. No. 42,344; Mar. 19; Gaz. vol. 176; p. 731.
Waldron, Richard, Brightwood, D. C. Jewel-case. No. 42,658; June 18; Gaz. vol. 179; p. 832.
Walker, Eli M., assignor to The Parker Clock Company, Meriden, Conn. Clock-case. No. 43,331; Dec. 3; Gaz. vol. 185; p. 228.
Walker, George, assignor to Landers, Frary & Clark, New Britain, Conn. Display-stand. No. 43,171; Oct. 15; Gaz. vol. 183; p. 765.
Wallis, Frederick H., Minneapolis, Minn. Street-lamp. No. 42,263; Mar. 5; Gaz. vol. 176; p. 253.
Walsh, Edward J., St. Louis, Mo. Sheet-glass. No. 42,792; July 9; Gaz. vol. 180; p. 579.
Walsh, Edward J., St. Louis, Mo. Sheet-glass. Nos. 42,904–5; Aug. 13; Gaz. vol. 181; p. 522.
Walter, Elmer E., assignor to Onondaga Pottery Company, Syracuse, N. Y. Plate. No. 43,413; Dec. 31; Gaz. vol. 185; p. 1359.
Wanner, Edwin P., New York, N. Y. Combined leg-brace and foot-ring rest for stools. No. 42,829; July 23; Gaz. vol. 180; p. 1122.
Wardwell, Simon W., Providence, R. I. Round braid. No. 43,024; Sept. 10; Gaz. vol. 182; p. 491.
Washman, Charles J., Terrell, Tex. Toilet-cabinet. No. 43,172; Oct. 15; Gaz. vol. 183; p. 765.
Waterbury Manufacturing Co. (See Recker, Adolph C., assignor.)
Waterbury Mfg. Co. (See Perkins, Walter H., assignor.)
Waterhouse, Kate V., Detroit, Mich. Corn-fork. No. 43,345; Dec. 10; Gaz. vol. 185; p. 508.
Watkins, Howard E., Summit, N. J. Shell for lighting-fixtures or similar articles. No. 43,067; Sept. 24; Gaz. vol. 182; p. 948.
Watkins, Howard E., Summit, N. J. Shade, globe, or similar article. Nos. 43,068–9; Sept. 24; Gaz. vol. 182; p. 948.
Watkins, Howard E., Summit, N. J. Shell for lighting-fixtures or similar articles. No. 43,070; Sept. 24; Gaz. vol. 182; p. 948.
Watkins, Howard E., Summit, N. J. Globe or similar article. No. 43,071; Sept. 24; Gaz. vol. 182; p. 948.
Watkins, Howard E., Summit, N. J. Shade, globe, or similar article. Nos. 43,072–3; Sept. 24; Gaz. vol. 182; p. 948.
Watkins, Howard E., Summit, N. J. Globe or similar article. No. 43,074; Sept. 24; Gaz. vol. 182; p. 948.
Watkins, Howard E., Summit, N. J. Shell for lighting-fixtures or similar articles. Nos. 43,086–9; Oct. 1; Gaz. vol. 183; p. 204.
Watkins, Howard E., Summit, N. J. Globe or similar article. Nos. 43,090–4; Oct. 1; Gaz. vol. 183; pp. 204–5.
Watkins, Howard E., Summit, N. J. Shell or similar article. No. 43,095; Oct. 1; Gaz. vol. 183; p. 205.
Watkins, Howard E., Summit, N. J. Shell for lighting-fixtures or similar articles. Nos. 43,096–7; Oct. 1; Gaz. vol. 183; p. 205.
Watkins, Howard E., Summit, N. J. Globe or similar article. No. 43,098; Oct. 1; Gaz. vol. 183; p. 206.
Watkins, Howard E., Summit, N. J. Shell for lighting-fixtures or similar articles. No. 43,099; Oct. 1; Gaz. vol. 183; p. 206.
Watson & Newell Company. (See Simms, Charles F., assignor.)
Watts, David H., Olden, Pa. Brush-handle. No. 43,250; Nov. 12; Gaz. vol. 184; p. 530.
Waverly Company, The. (See Kennedy, Harold H., assignor.)
Weber, Harry C., Reading, Pa. Top-cord button. No. 42,830; July 23; Gaz. vol. 180; p. 1122.
Webster, John, East Providence, R. I. Hair-brush. No. 42,597; June 4; Gaz. vol. 179; p. 266.
Weeks, Frank A., Plainfield, N. J. Inkstand. Nos. 43,126–8; Oct. 8; Gaz. vol. 183; p. 485.
Weimer, Emanuel H., Los Angeles, Cal. Purse. No. 42,407; Apr. 9; Gaz. vol. 177; p. 503.
Weis, Andrew L., Monroe, Mich., assignor to Weis-Van Wormer Company. Paper closure or stopper for paper vessels. No. 42,519; May 14; Gaz. vol. 178; p. 570.
Weis-Van Wormer Company. (See Weis, Andrew L., assignor.)
Weise, Charles, Baltimore, Md., assignor to American Tobacco Company, New York, N. Y. Can or container. No. 43,259; Nov. 19; Gaz. vol. 184; p. 785.
Weld, Carley G., North Chatham, Mass. Casing for fluid-motive power pumps and connections. No. 43,241; Nov. 5; Gaz. vol. 184; p. 267.
Wermerskirchen, Anthony W., Chicago, Ill. Display-stand for exhibiting wood-finishes of doors or similar articles. No. 42 844; July 30; Gaz. vol. 180; p. 1375.
Werner, Maurice, Chicago, Ill. Radiator. No. 42,793; July 9; Gaz. vol. 180; p. 579.
West, George R., Pittsburgh, Pa. Bottle. No. 43,173; Oct. 15; Gaz. vol. 183; p. 766.
Wetzel, Lewis C., assignor to Toledo Computing Scale Company, Toledo, Ohio. Weighing-scale housing. No. 42,555; May 21; Gaz. vol. 178; p. 862.
Wheeler, Thomas A. J., Ivanhoe, Tex. Jack-screw stand and lifter. No. 42,378; Mar. 26; Gaz. vol. 176; p. 1051.
Wheelock, Edwin M., Winona, Minn. Traction-wheel. No. 42,264; Mar. 5; Gaz. vol. 176; p. 253.
Whitall Tatum Co. (See Tatum, Charles A., assignor.)
White, Fred E. (See Wilder and White.)
White, James H., New York, N. Y. Step for poles. No. 42,598; June 4; Gaz. vol. 179; p. 266.
White, James R. (See Wait and White.)
White, Robert A., Maplewood, N. J. Brush. No. 43,174; Oct. 15; Gaz. vol. 183; p. 766.
Whiting Manufacturing Company. (See Osborne, Charles, assignor.)
Whitman, John F., Elkins Park, Pa. Mantel-clock case. No. 42,448; Apr. 30; Gaz. vol. 177; p. 1275.
Whitman, John F., Elkins Park, Pa. Clock-casing. No. 42,556; May 21; Gaz. vol. 178; p. 862.
Whitmore, Frederick C., New York, N. Y., assignor to Display Vending Co. Cabinet for vending-machines. No. 42,265; Mar. 5; Gaz. vol. 176; p. 253.
Wight, Thomas, assignor to Frank Tilk Ornamental Iron Works Company, Kansas City, Mo. Lamp-post. No. 43,129; Oct. 8; Gaz. vol. 183; p. 486.
Wilcox, Roderick H., Columbus, Ohio. Vehicle-body. No. 43,414; Dec. 31; Gaz. vol. 185; p. 1359.
Wilder, William H., and F. E. White, Gardner, Mass., assignors to Central Oil & Gas Stove Company. Oven. No. 42,659; June 18; Gaz. vol. 179; p. 832.
Wilford, Edward B., Merion, assignor to Electro Dental Manufacturing Company, Philadelphia, Pa. Valve. No. 42,314; Mar. 12; Gaz. vol. 176; p. 505.
Will, Blanca, assignor to Sill Stove Works, Rochester, N. Y. Stove. No. 43,184; Oct. 22; Gaz. vol. 183; p. 1013.

Alphabetical list of patentees of designs—Continued.

Will, Frederick, and H. Becker, assignors to Sill Stove Works, Rochester, N. Y. Top for coal-ranges. No. 43,075; Sept. 24; Gaz. vol. 182; p. 949.
William B. Durgin Co. (See Jenks, Barton P., assignor.)
Williams, Angelo W., New York, N. Y. Knife-handle. No. 42,408; Apr. 9; Gaz. vol. 177; p. 503.
Williams Brothers Manufacturing Company, The. (See Lohrmann, Ernst H., assignor.)
Williams, Louis, Denver, Colo. Lock-hook. No. 42,987; Sept. 3; Gaz. vol. 182; p. 227.
Wincroft Stove Works. (See Genthner, Charles M., assignor.)
Windsor, Lorraine, Chicago, Ill. Window-drapery. No. 43,398; Dec. 24; Gaz. vol. 185; p. 1034.
Winkler, Samuel M., New York, N. Y. Merchandise-display rack. No. 42,427; Apr. 23; Gaz. vol. 177; p. 1021.
Winterton Manufacturing Company. (See McQuillan, Jacob M., assignor.)
Wirts, Stephen M., Detroit, Mich. Phonograph-table. No. 42,660; June 18; Gaz. vol. 179; p. 832.
Wirts, Stephen M., Detroit, Mich., assignor to American Graphophone Company, Bridgeport, Conn. Cabinet for talking-machines. Nos. 43,293–4; Nov. 26; Gaz. vol. 184; p. 1058.
Wishart, Joseph, Brooklyn, N. Y., assignor to Bigelow Carpet Company. Carpet. Nos. 42,159–60; Feb. 6; Gaz. vol. 175; p. 244.
Wishart, Joseph, Brooklyn, N. Y., assignor to Bigelow Carpet Company. Carpet. No. 42,557; May 21; Gaz. vol. 178; p. 862.
Wittnauer, Emile J., assignor to A. Wittnauer & Co., New York, N. Y. Bracelet-watch. No. 42,449; Apr. 30; Gaz. vol. 177; p. 1275.
Wohl, Maurice J., *et al.*, trustees. (See Low and Hertzberg, assignors.)
Woodbury, James H., Boston, Mass. Shoe-tree or similar article. No. 43,076; Sept. 24; Gaz. vol. 182; p. 949.
Woods Evertz Stove Co. (See Woods, William W., assignor.)
Woods, William P., Evansville, Ind. Badge, emblem, or similar article. No. 42,383; Apr. 2; Gaz. vol. 177; p. 221.
Woods, William W., assignor to Woods Evertz Stove Co., Springfield, Mo. Stove. No. 42,345; Mar. 19; Gaz. vol. 176; p. 731.
Work, Bertram G., Akron, Ohio, assignor, by mesne assignments, to The B. F. Goodrich Company. Tire-tread. No. 43,332; Dec. 3; Gaz. vol. 185; p. 228.
Wright, Alvin, Buffalo, N. Y. Clock-case. No. 42,558; May 21; Gaz. vol. 178; p. 862.
Wright, Morris S., assignor to Morris S. Wright Company, Worcester, Mass. Casing for vacuum-cleaners. No. 43,295; Nov. 26; Gaz. vol. 184; p. 1058.
Wrought Iron Range Company, The. (See Judd, Frederick W., assignor.)
Wuthenow, William, New York, N. Y. Phonograph-box or similar article. No. 42,569; May 28; Gaz. vol. 178; p. 1129.
Yesbera, Frank, and J. Jameson, Toledo, Ohio. Display-stand for merchandise. No. 42,180; Feb. 13; Gaz. vol. 175; p. 523.
Young, Lorin W., New York, N. Y. Lamp-shade. No. 42,661; June 18; Gaz. vol. 179; p. 832.
Young, Lorin W., New York, N. Y. Lamp-shade. No. 42,866; Aug. 6; Gaz. vol. 181; p. 249.
Zakrzewski, Theodora, Philadelphia, Pa. Symbol. No. 42,181; Feb. 13; Gaz. vol. 175; p. 523.
Ziegler, Charles E., Altwasser, Germany, assignor to The J. Pouyat Company, New York, N. Y. Covered dish or similar article. No. 43,130; Oct. 8; Gaz. vol. 183; p. 486.

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

~~A. Boake Roberts & Co. Limited, Stratford, county of Essex, England. Fruit extracts. No. 89,437; Dec. 17; Gaz. vol. 185; p. 823.~~

A. Cora, Inc., San Francisco, Cal. Whisky. No. 89,229; Dec. 3; Gaz. vol. 185; p. 243.

A-Heal-A Co., The, Columbus, Ohio. Ointment, balm, and pills. No. 87,512; July 23; Gaz. vol. 180; p. 1133.

A. Leschen & Sons Rope Company, St. Louis, Mo. Wire rope. Nos. 87,778–9; Aug. 6; Gaz. vol. 181; p. 261.

A. Martin, Inc., New York, N. Y. Eyeglass and spectacle lenses. No. 86,605; May 21; Gaz. vol. 178; p. 880.

A. Sander Packing Company, The, Cincinnati, Ohio. Certain named foods. No. 89,506; Dec. 17; Gaz. vol. 185; p. 825.

A. Schoenhut Company, The, Philadelphia, Pa. Certain musical instruments. No. 86,164; Apr. 16; Gaz. vol. 177; p. 766.

A. Wilhelm Company, The, Reading, Pa. Calcimine. No. 87,697; July 30; Gaz. vol. 180; p. 1390.

A. A. Vantine & Co., New York, N. Y. Talcum powders. No. 85,206; Jan. 30; Gaz. vol. 174; p. 1215.

A. A. Vantine & Co., New York, N. Y. Soap. No. 86,186; Apr. 16; Gaz. vol. 177; p. 767.

A. A. White Company, Boston, Mass. Paints. No. 87,957; Aug. 13; Gaz. vol. 181; p. 538.

A. C. Horn Company, New York, N. Y. Lime. No. 86,803; June 4; Gaz. vol. 179; p. 282.

A. C. Howard Polish Company, The, Incorporated, New York, N. Y. Shoe-polish pastes. No. 89,184; Nov. 19; Gaz. vol. 184; p. 799.

A. C. Lawrence Leather Co., Boston, Mass. Finished leather. No. 85,911; Mar. 26; Gaz. vol. 176; p. 1067.

A. C. Lawrence Leather Co., Boston, Mass. Kip and cowhide. No. 87,776; Aug. 6; Gaz. vol. 181; p. 261.

A. E. Nettleton Company, Syracuse, N. Y. Leather shoes for men and youths. No. 88,778; Oct. 22; Gaz. vol. 183; p. 1028.

~~A. E. Peck Mfg. Co., Minneapolis, Minn. Tooth-paste. No. 89, 695; Dec. 31; Gaz. vol. 185; p. 1376.~~

A. F. Young & Co., New York, N. Y.; Pittsburgh, Pa., and Boston, Mass. Oranges. No. 86,017; Apr. 2; Gaz. vol. 177; p. 237.

A. F. Young & Co., New York, N. Y.; Pittsburgh, Pa., and Boston, Mass. Oranges. No. 86,652; May 21; Gaz. vol. 178; p. 881.

A. G. Hyde & Sons, New York, N. Y. Cotton piece goods. No. 87,341; July 9; Gaz. vol. 180; p. 598.

A. G. Hyde & Sons, New York, N. Y. Certain clothing. No. 87,762; Aug. 6; Gaz. vol. 181; p. 261.

A. G. Spalding & Bros., Jersey City, N. J., and New York, N. Y. Tennis-rackets. No. 85,509; Feb. 20; Gaz. vol. 175; p. 840.

A. G. Spalding & Bros., Jersey City, N. J., and New York, N. Y. Golf-balls. No. 86,559; May 14; Gaz. vol. 178; p. 588.

A. G. Spalding & Bros., Jersey City, N. J., and New York, N. Y. Golf-balls. No. 87,493; July 16; Gaz. vol. 180; p. 876.

A. H. Hart Co., The, Paterson, N. J. Twine and cord. No. 86,221; Apr. 23; Gaz. vol. 177; p. 1039.

~~A. H. Thomas Paint Company, The, Waverly, N. Y.~~ Certain kinds of paint and painters' materials. No. 88,386; Sept. 10; Gaz. vol. 182; p. 507.

A. J. Hague & Co. Inc., New York, N. Y. Hair-nets. No. 88,748; Oct. 22; Gaz. vol. 183; p. 1027.

A. J. Harwi Hardware Company, Atchison, Kans. Cutlery, machinery, and tools, and parts thereof. No. 86,588; May 21; Gaz. vol. 178; p. 879.

A. J. Harwi Hardware Company, Atchison, Kans. Certain hardware supplies. No. 86,589; May 21; Gaz. vol. 178; p. 879.

A. J. Logan Company, Pittsburgh, Pa. Mattresses, bed box-springs, bedding-pads, &c. No. 89,478; Dec. 17; Gaz. vol. 185; p. 824.

A. M. Collins Manufacturing Company, Philadelphia, Pa. Certain named articles of paper and stationery. No. 89,443; Dec. 17; Gaz. vol. 185; p. 823.

A. M. Collins Manufacturing Company, Philadelphia, Pa. Photographic mounts. No. 89,444; Dec. 17; Gaz. vol. 185; p. 823.

A. M. McPhail Piano Co., Boston, Mass. Player-pianos. No. 86,608; May 21; Gaz. vol. 178; p. 880.

A. P. Babcock Company, New York, N. Y. Talcum powder. No. 88,450; Sept. 24; Gaz. vol. 182; p. 965.

A. P. Witteman Company, Philadelphia, Pa. Steel forgings, castings, and bars. No. 86,357; Apr. 30; Gaz. vol. 177; p. 1293.

A/S Hurum Fabriker, Jelöen, Norway. Sulfate cellulose. No. 85,129; Jan. 30; Gaz. vol. 174; p. 1213.

A/S. Hurum Fabriker, Jelöen, Norway. Wood-pulp. No. 86,500; May 14; Gaz. vol. 178; p. 587.

A/S Sardinfabrikken Norrig, Stavanger, Norway. Herrings and sardines. No. 87,304; July 9; Gaz. vol. 180; p. 597.

A/S Sardinfabrikken Norrig, Stavanger, Norway. Sardines. No. 87,961; Aug. 13; Gaz. vol. 181; p. 538.

Abel & Asher Co., Shreveport, La. Coffee compound. No. 88,146; Sept. 3; Gaz. vol. 182; p. 243.

~~Abel & Asher Co., Shreveport, La. Coffee. No. 89,524; Dec. 24; Gaz. vol. 185; p. 1049.~~

~~Abernethy, Jno. C., Miami, Fla. Preparation for the treatment of certain named affections. No. 89,593; Dec. 31; Gaz. vol. 185; p. 1373.~~

Acker, Merrall & Condit Company, New York, N. Y. Canned vegetables, fruits, prepared wheat-flour, and prepared pancake-flour. No. 86,861; June 11; Gaz. vol. 179; p. 567.

Ackerman, Ross D., Auburn, N. Y. Engraver's wax. No. 89,594; Dec. 31; Gaz. vol. 185; p. 1373.

Ackerman-Stewart Drug Co., Palatka, Fla. Condition-powders. No. 84,923; Jan. 16; Gaz. vol. 174; p. 823.

Acme Metal Weather Strip Company, New York, N. Y. Metal weather-strips. No. 85,398; Feb. 20; Gaz. vol. 175; p. 837.

Acme Wire Company, The, New Haven, Conn. Electro-magnets. No. 87,963; Aug. 20; Gaz. vol. 181; p. 815.

Act. Ges. für Bürsten Industrie vormals C. H. Roegner Striegau & D. J. Dukas Freiburg i. B, Striegau, Germany. Brushes, dusters, and brooms. No. 87,134; July 2; Gaz. vol. 180; p. 315.

Actien-Gesellschaft für Anilin-Fabrikation, Berlin, Germany. Wound-healing remedies. No. 86,768; June 4; Gaz. vol. 179; p. 281.

Actien-Gesellschaft für Anilin-Fabrikation, Berlin, Germany. Pharmaceutical preparations. No. 87,135; July 2; Gaz. vol. 180; p. 315.

Actien-Gesellschaft für Anilin-Fabrikation, Berlin, Germany. Solvents for resins, oils, and perfumes. No. 89,595; Dec. 31; Gaz. vol. 185; p. 1373.

Adair, James, Sewickley, Pa. Cereal breakfast food. No. 87,582; July 30; Gaz. vol. 180; p. 1387.

Adair & McCarty Bros., A. D., Atlanta, Ga. Guano and fertilizer. No. 89,174; Nov. 19; Gaz. vol. 184; p. 799.

Adam, Philipp I., New Orleans, La. Pine and hardwood lumber. No. 89,083; Nov. 12; Gaz. vol. 184; p. 545.

Adams-Bagnall Electric Co., The, Cleveland, Ohio. Electric lamps, supports, shade-holders, &c. No. 89,525; Dec. 24; Gaz. vol. 185; p. 1049.

Adams, George D., Cleveland, Ohio. Plant fibers. No. 89,321; Dec. 10; Gaz. vol. 185; p. 519.

Adams Shoe Company, Lynn, Mass. Leather shoes. No. 86,862; June 11; Gaz. vol. 179; p. 567.

Adams and Stinebaugh, Seattle, Wash. Plastic compositions. No. 87,136; July 2; Gaz. vol. 180; p. 315.

Adesa & Co., London, England. Certain abrasive, detergent, and polishing materials. No. 86,501; May 14; Gaz. vol. 178; p. 587.

Adie, Andrew, Newton, Mass. Worsted and merino yarn. No. 84,711; Jan. 2; Gaz. vol. 174; p. 283.

Adriance, Platt & Co., Poughkeepsie, N. Y. Cutlery, machinery, and tools and parts thereof. No. 86,863; June 11; Gaz. vol. 179; p. 567.

Aeolian Company, Meriden, Conn.; Garwood, N. J., and New York, N. Y. Automatic piano-players and music for the same. No. 84,796; Jan. 9; Gaz. vol. 174; p. 579.

Aeolian Company, Meriden, Conn.; Garwood, N. J., and New York, N. Y. Perforated music-rolls. No. 88,653; Oct. 15; Gaz. vol. 183; p. 777.

Aeolian Company, Meriden, Conn.; Garwood, N. J., and New York, N. Y. Pianos, &c., operated in connection with phonographs. No. 88,654; Oct. 15; Gaz. vol. 183; p. 777.

Aeolian Company, Meriden, Conn.; Garwood, N. J., and New York, N. Y. Music-rolls. No. 89,212; Dec. 3; Gaz. vol. 185; p. 243.

Aermore Manufacturing Company, Chicago, Ill. Automobile-horns. Nos. 89,425–6; Dec. 17; Gaz. vol. 185; p. 823.

Aerometal Syndicate, Limited, Westminster, London, England. Metals. No. 89,173; Nov. 12; Gaz. vol. 184; p. 547.

Aeroshade Co., The, Waukesha, Wis. Porch and window shades. No. 87,305; July 9; Gaz. vol. 180; p. 597.

Ahlstrom, Charles A., Jamestown, N. Y. Player-pianos. No. 86,769; June 4; Gaz. vol. 179; p. 281.

Ahrens and Co., M. J., New York, N. Y. Cigarettes. No. 88,147; Sept. 3; Gaz. vol. 182; p. 243.

Aikin-Lambert Company, New York, N. Y. Fountain-pens and parts thereof. No. 89,597; Dec. 31; Gaz. vol. 185; p. 1373.

Alphabetical list of registrants of trade-marks—Continued.

Air Friction Carburetor Company, The, Dayton, Ohio. Carbureters and parts thereof. No. 86,565; May 21; Gaz. vol. 178; p. 879.

Aktiebolaget B. A. Hjorth & Co., Stockholm, Sweden. Stoves, soldering-lamps, and parts thereof and accessories. No. 85,541; Feb. 27; Gaz. vol. 175; p. 1093.

Aktiebolaget Södertelje Tändsticksfabrik, Örgryte, near Gothenburg, Sweden. Matches. No. 87,138; July 2; Gaz. vol. 180; p. 315.

Aktiebolaget Sveriges Förenade Konservfabriker, Goteborg, Sweden. Sardines. No. 89,526; Dec. 24; Gaz. vol. 185; p. 1049.

Aktieselskabet De Danske Spritfabrikker, Copenhagen, Denmark. Brandy. No. 89,213; Dec. 3; Gaz. vol. 185; p. 243.

Aktien-Gesellschaft Vereinigte Berner & Zürcher Chocolade-Fabriken Lindt & Sprüngli, Kilchberg, near Zurich, and Berne, Switzerland. Chocolate candies. No. 87,306; July 9; Gaz. vol. 180; p. 597.

Aktiengesellschaft für chemische Produkte vormals H. Scheidemandel, Berlin, N. W., Germany. Certain adhesives. No. 87,139; July 2; Gaz. vol. 180; p. 315.

Alart & McGuire Company, New York, N. Y. Pickles. No. 87,026; June 25; Gaz. vol. 179; p. 1101.

Alaska Fish Co., Seattle, Wash. Canned salmon. No. 86,864; June 11; Gaz. vol. 179; p. 567.

Alaska Fish Co., Seattle, Wash. Canned salmon. No. 88,821; Oct. 29; Gaz. vol. 183; p. 1301.

Alaska Packers Association, San Francisco, Cal. Canned salmon. No. 85,720; Mar. 12; Gaz. vol. 176; p. 521.

Albany Perforated Wrapping Paper Company, Albany, N. Y. Toilet-paper. Nos. 87,964–5; Aug. 20; Gaz. vol. 181; p. 815.

Albert, Samuel, New York, N. Y. Certain toilet preparations. No. 87,699; Aug. 6; Gaz. vol. 181; p. 259.

Albert Trostel & Sons Company, Milwaukee, Wis. Leather in the piece. No. 88,431; Sept. 17; Gaz. vol. 182; p. 718.

Albert Trostel & Sons Company, Milwaukee, Wis. Leather in the piece. Nos. 88,601–2; Oct. 1; Gaz. vol. 183; p. 214.

Alberty, Ada M., Seattle, Wash. Food for infants and invalids. No. 85,637; Mar. 5; Gaz. vol. 176; p. 269.

Albright, Franklin P., Philadelphia, Pa. Remedy for certain ailments. No. 87,700; Aug. 6; Gaz. vol. 181; p. 259.

Ale-Ting Service, Chicago, Ill. Pictures, illustrations, stories, &c., published serially. No. 88,655; Oct. 15; Gaz. vol. 183; p. 777.

Alexander, Harry, New York, N. Y. Metal reflectors. No. 85,399; Feb. 20; Gaz. vol. 175; p. 837.

Alfred Nelson Company, New York, N. Y. Sporting coats, vests, trousers, knickerbockers, &c. No. 84,913; Jan. 9; Gaz. vol. 174; p. 582.

Alfred Wolff & Co., New York, N. Y. Certain electrical apparatus and supplies. No. 87,508; July 16; Gaz. vol. 180; p. 876.

Alfred Wright Perfumer, Inc., Philadelphia, Pa. Perfumery. Nos. 88,544–5; Sept. 24; Gaz. vol. 182; p. 968.

Alfred Wright Perfumer Inc., Philadelphia, Pa. Perfumery. No. 88,990; Oct. 29; Gaz. vol. 183; p. 1305.

Allan, William, New York, N. Y., and San Juan, Porto Rico. Oranges, grape-fruits, lemons, &c. No. 85,213; Feb. 6; Gaz. vol. 175; p. 259.

Allen Auto Specialty Co., New York, N. Y. Pressure-gages. No. 88,441; Sept. 24; Gaz. vol. 182; p. 965.

Allen, Charles J., Philadelphia, Pa. Coal-meters. No. 87,701; Aug. 6; Gaz. vol. 181; p. 259.

Allen-Foster-Willett Co., Lynn, Mass. Leather boots and shoes. No. 85,053; Jan. 30; Gaz. vol. 174; p. 1211.

Allendorff, Hugo, Bad Wildungen, Germany. Medicinal tea. No. 85,052; Jan. 30; Gaz. vol. 174; p. 1211.

Allmänna Svenska Elektriska Aktiebolaget, Vesterås, Sweden. Certain electrical machines and supplies. No. 85,935; Apr. 2; Gaz. vol. 177; p. 235.

Allsopp & Allsopp, Newark, N. J. Gold and diamond mounted jewelry. No. 89,427; Dec. 17; Gaz. vol. 185; p. 823.

Alpine Pharmacal Co., The, Cleveland, Ohio. Laxative preparations. No. 88,609; Oct. 8; Gaz. vol. 183; p. 499.

Aluminium G. m. b. H., Teningen, Baden, Germany. Foils of aluminium or its alloys. No. 88,822; Oct. 29; Gaz. vol. 183; p. 1301.

Alvah Bushnell Company, Philadelphia, Pa. Paper substitute. No. 87,316; July 9; Gaz. vol. 180; p. 597.

Alwin Manufacturing Company, Chicago, Ill. Go-carts. No. 85,788; Mar. 19; Gaz. vol. 176; p. 745.

Amalgatype Machine Company, New York, N. Y. Typographic machines and the parts thereof. No. 88,042; Aug. 27; Gaz. vol. 181; p. 1067.

Amalgatype Machine Company, New York, N. Y. Cast-metal type, lines of type, and matrices. No. 88,656; Oct. 15; Gaz. vol. 183; p. 777.

Ambrosia Chocolate Company, Milwaukee, Wis. Chocolate confection. No. 89,084; Nov. 12; Gaz. vol. 184; p. 545.

American Abrasive Metals Co., New York, N. Y. Specially-prepared cast metal for certain uses. No. 88,991; Nov. 5; Gaz. vol. 184; p. 281.

American Agricultural Chemical Co., New York, N. Y. Fertilizers. Nos. 86,116–17; Apr. 16; Gaz. vol. 177; p. 765.

American Agricultural Chemical Company, New York, N. Y. Fertilizers. No. 87,140; July 2; Gaz. vol. 180; p. 315.

American Agricultural Chemical Company, New York, N. Y. Fertilizers. No. 87,513; July 23; Gaz. vol. 180; p. 1133.

American Agricultural Chemical Company, New York, N. Y. Fertilizers. No. 88,224; Sept. 10; Gaz. vol. 182; p. 503.

American Agricultural Chemical Company, New York, N. Y. Fertilizers. No. 88,657; Oct. 15; Gaz. vol. 183; p. 777.

American Ammone Company, Buffalo and New York, N. Y. Medicated soluble toilet powders. No. 88,824; Oct. 29; Gaz. vol. 183; p. 1301.

American Anti-Cigarette Company, Roanoke, Va., and New York, N. Y. Receptacles for cigarette-holders. No. 86,502; May 14; Gaz. vol. 178; p. 587.

American Architect, The, New York, N. Y. Magazines. No. 89,428; Dec. 17; Gaz. vol. 185; p. 823.

American Asphaltum & Rubber Co., The, Chicago, Ill. Certain construction material. No. 87,584; July 30; Gaz. vol. 180; p. 1387.

American Asphaltum & Rubber Co., The, Chicago, Ill. Rubber, asphaltic lime-rock, and gilsonite. No. 87,702; Aug. 6; Gaz. vol. 181; p. 259.

American Bag Company, Memphis, Tenn. Cotton and burlap bags. No. 88,225; Sept. 10; Gaz. vol. 182; p. 503.

American Bar Lock Company, Philadelphia, Pa. Illuminating-prisms. No. 87,703; Aug. 6; Gaz. vol. 181; p. 259.

American Belting & Tanning Co., Boston, Mass. Leather belting, packing, and hose. No. 85,400; Feb. 20; Gaz. vol. 175; p. 837.

American Belting & Tanning Co., Boston, Mass. Leather belting, hose, and lacing. No. 86,262; Apr. 30; Gaz. vol. 177; p. 1291.

American Beverage Company, St. Louis, Mo. Beverages, fruit compounds, and syrups. No. 87,585; July 30; Gaz. vol. 180; p. 1387.

American Brake Shoe & Foundry Company, Mahwah, N. J. Metal castings. No. 87,141; July 2; Gaz. vol. 180; p. 315.

American Candy Mfg. Co., Selma, Ala. Candy. No. 88,226; Sept. 10; Gaz. vol. 182; p. 503.

American Coffee Company of New Orleans, Ltd., New Orleans, La. Tea. No. 87,837; Aug. 13; Gaz. vol. 181; p. 535.

American Conduit Manufacturing Co., The, Pittsburgh, Pa. Conduits for electrical purposes. No. 88,227; Sept. 10; Gaz. vol. 182; p. 503.

American Cotton Oil Company, The, West New York, N. J., and New York, N. Y. Cotton-seed oil. No. 88,992; Nov. 5; Gaz. vol. 184; p. 281.

American Electrical Heater Co., Detroit, Mich. Certain electrical apparatus. No. 86,020; Apr. 9; Gaz. vol. 177; p. 519.

American Encaustic Tiling Co. Ltd., New York, N. Y., and Janesville, Ohio. Tiles. No. 86,681; May 28; Gaz. vol. 178; p. 1147.

American Encaustic Tiling Co. Ltd., New York, N. Y., and Zanesville, Ohio. Tiles. No. 87,307; July 9; Gaz. vol. 180; p. 597.

American Feedograph Company, Philadelphia, Pa. Certain automatic attachment for type-writing machines. No. 86,021; Apr. 9; Gaz. vol. 177; p. 519.

American Film Manufacturing Co., Chicago, Ill. Moving-picture films. No. 89,078; Nov. 12; Gaz. vol. 184; p. 545.

American Fish & Oyster Company, The, Stockton, Cal. Fresh oysters. No. 88,148; Sept. 3; Gaz. vol. 182; p. 243.

American Glue Company, Boston, Mass. Glue. Nos. 84,712–13; Jan. 2; Gaz. vol. 174; p. 283.

American Graphophone Company, Bridgeport, Conn. Talking-machines. No. 84,714; Jan. 2; Gaz. vol. 174; p. 283.

American Gum Company, Chicago, Ill. Chewing-gum. No. 85,401; Feb. 20; Gaz. vol. 175; p. 837.

American Hominy Company, Indianapolis, Ind. Certain foods and stock feed. No. 84,797; Jan. 9; Gaz. vol. 174; p 579.

American Infusion Steel Process Co., New York, N. Y. Chemical composition for hardening low-carbon steel. No. 88,546; Oct. 1; Gaz. vol. 183; p. 213.

American Ink Company, The, Denver, Colo. Writing-ink. No. 89,429; Dec. 17; Gaz. vol. 185; p. 823.

American Iron and Steel Manufacturing Company, Lebanon and Reading, Pa. Turnbuckles. Nos. 86,358–63; May 7; Gaz. vol. 178; p. 313.

American Iron and Steel Manufacturing Company, Lebanon and Reading, Pa. Certain hardware and plumbing supplies. No. 86,566; May 21; Gaz. vol. 178; p. 879.

American Iron and Steel Manufacturing Company, Lebanon and Reading, Pa. Structural forgings, bar-iron, and bar-steel. No. 86,682; May 28; Gaz. vol. 178; p. 1147.

Alphabetical list of registrants of trade-marks—Continued.

American Iron and Steel Manufacturing Company, Lebanon and Reading, Pa. Certain hardware. Nos. 86,683–8; May 28; Gaz. vol. 178; p. 1147.
American Iron and Steel Manufacturing Company, Lebanon and Reading, Pa. Turnbuckles. Nos. 86,770–1; June 4; Gaz. vol. 179; p. 281.
American Iron and Steel Manufacturing Company, Lebanon and Reading, Pa. Structural forgings, bar iron and steel. Nos. 86,865–6; June 11; Gaz. vol. 179; p. 567.
American Iron and Steel Manufacturing Company, Lebanon, Pa. Structural forgings, bar iron and steel. No. 89,214; Dec. 3; Gaz. vol. 185; p. 243.
American Kitchen Products Company, New York, N. Y. Beef-broth preparations. No. 88,823; Oct. 29; Gaz. vol. 183; p. 1301.
American Kitchen Products Company, New York, N. Y. Beef-broth preparations. No. 89,527; Dec. 24; Gaz. vol. 185; p. 1049.
American Lady Corset Co., Detroit, Mich. Corsets. No. 88,228; Sept. 10; Gaz. vol. 182; p. 503.
American Lady Corset Company, Detroit, Mich. Corsets. No. 86,364; May 7; Gaz. vol. 178; p. 313.
American Lava Co., Chattanooga, Tenn. Gas burners and tips. No. 87,704; Aug. 6; Gaz. vol. 181; p. 259.
American Lava Company, Chattanooga, Tenn. Acetylene-burners. No. 85,026; Jan. 23; Gaz. vol. 174; p. 1023.
American Lead Pencil Company, New York, N. Y. Pencils. No. 87,308; July 9; Gaz. vol. 180; p. 597.
American Luxfer Prism Company of Illinois, Chicago, Ill. Vault-lights and prismatic glass. No. 84,798; Jan. 9; Gaz. vol. 174; p. 579.
American Manganese Bronze Company, New York, N. Y. Bronze alloy. No. 89,598; Dec. 31; Gaz. vol. 185; p. 1373.
American Manufacturing Company, The, Charleston, W. Va., and New York, N. Y., assignor to American Manufacturing Company, Boston, Mass. Bagging for baling cotton. Nos. 85,214–16; Feb. 6; Gaz. vol. 175; p. 259.
American Manufacturing Company, Charleston, W. Va., and New York, N. Y., assignor to American Manufacturing Company. Hemp clothes-lines. Nos. 85,402–3; Feb. 20; Gaz. vol. 175; p. 837.
American Manufacturing Company, Boston, Mass., and New York, N. Y. Bagging for baling cotton. No. 87,027; June 25; Gaz. vol. 179; p. 1101.
American Manufacturing Company, Boston, Mass., and New York, N. Y. Bagging for baling cotton. No. 87,031; June 25; Gaz. vol. 179; p. 1101.
American Manufacturing Company, Boston, Mass., and New York, N. Y. Twine. No. 87,142; July 2; Gaz. vol. 180; p. 315.
American Metal Stamping Company, Germantown, Pa. Metal pipes, culverts, and gutters. No. 87,586; July 30; Gaz. vol. 180; p. 1387.
American Milk Company, Chicago, Ill. Condensed milk. No. 85,936; Apr. 2; Gaz. vol. 177; p. 235.
American Mills Company of New York, The, New York, N. Y. Elastic webbing. No. 89,599; Dec. 31; Gaz. vol. 185; p. 1373.
American Molasses Co., New York, N. Y. Molasses. No. 84,799; Jan. 9; Gaz. vol. 174; p. 579.
American Optical Company, Southbridge, Mass. Lens examining and testing instruments. No. 86,567; May 21; Gaz. vol. 178; p. 879.
American Optical Company, Southbridge, Mass. Eyeglasses, spectacles, and parts therefor. No. 87,705; Aug. 6; Gaz. vol. 181; p. 259.
American Optical Company, Southbridge, Mass. Eyeglasses, spectacles, and other scientific appliances. Nos. 87,966–7; Aug. 20; Gaz. vol. 181; p. 815.
American Optical Company, Southbridge, Mass. Certain named measuring and scientific appliances. No. 89,430; Dec. 17; Gaz. vol. 185; p. 823.
American Ozone Company, Niagara Falls, N. Y. Ozonizing apparatus. No. 88,725; Oct. 22; Gaz. vol. 183; p. 1027.
American Paper Goods Company, The, Montclair, N. J., and Kensington, Conn. Paper bags and drinking-cups. No. 85,721; Mar. 12; Gaz. vol. 176; p. 521.
American Paper Products Company, St. Louis, Mo. Corrugated paper. No. 86,022; Apr. 9; Gaz. vol. 177; p. 519.
American Paper Products Company, St. Louis, Mo. Certain receptacles. No. 87,391; July 16; Gaz. vol. 180; p. 873.
American Piano Co., New York, N. Y. Pianos, piano-players, and note-sheets for the same. No. 87,968; Aug. 20; Gaz. vol. 181; p. 815.
American Piano Company, New York, N. Y. Piano-players, pianos, and note-sheets. No. 87,706; Aug. 6; Gaz. vol. 181; p. 259.
American Pin Company, Waterbury, Conn. Safety-pins. No. 85,638; Mar. 5; Gaz. vol. 176; p. 269.
American Pin Company, Waterbury, Conn. Certain plumbers' supplies. No. 86,198; Apr. 23; Gaz. vol. 177; p. 1039.
American Prepared Food Co., South Bend, Ind. Certain foods. No. 84,800; Jan. 9; Gaz. vol. 174; p. 579.
American Printing Ink Co., The, Cincinnati, Ohio. Printing-ink. No. 87,587; July 30; Gaz. vol. 180; p. 1387.
American Radiator Company, Chicago, Ill. Vacuum cleaning apparatus. No. 88,442; Sept. 24; Gaz. vol. 182; p. 965.
American Radiator Company, East Orange, N. J.; Chicago, Ill.; New York, N. Y.; Philadelphia, Pa.; Boston, Mass.; London, England; Paris, France, and Berlin, Germany. Radiators. No. 88,658; Oct. 15; Gaz. vol. 183; p. 777.
American "Radio-Thor 'X'" Company, The, Chicago, Ill. Medicinal tablets. No. 89,600; Dec. 31; Gaz. vol. 185; p. 1373.
American Recorder Company, Chicago, Ill. Recording apparatus. No. 86,867; June 11; Gaz. vol. 179; p. 567.
American Rice & Cereal Co., Keokuk, Iowa. Rolled oats. No. 88,395; Sept. 17; Gaz. vol. 182; p. 717.
American Sales Book Company, Limited, Toronto, Ontario, Canada, and Niagara Falls, Elmira, and Glendale, N. Y. Sales-books. No. 86,263; Apr. 30; Gaz. vol. 177; p. 1291.
American Sales Book Company, Limited, Toronto, Canada, and Niagara Falls, Elmira, and Glendale, N. Y. Sales-books. No. 86,689; May 28; Gaz. vol. 178; p. 1147.
American Salve Company, Grand Rapids, Mich. Salves and lotions. No. 85,542; Feb. 27; Gaz. vol. 175; p. 1093.
American Stamp & Ticket Vending Machine Co., Worcester, Mass. Stamp and ticket vending machines. No. 88,443; Sept. 24; Gaz. vol. 182; p. 965.
American Steel Safe Co., St. Joseph, Mo. Safes. No. 87,707; Aug. 6; Gaz. vol. 181; p. 259.
American Steel & Wire Company of New Jersey, The, Hoboken, N. J. Barb-wire. No. 85,639; Mar. 5; Gaz. vol. 176; p. 269.
American Steel & Wire Company of New Jersey, Hoboken, N. J., and Worcester, Mass. Wire for electrical purposes. No. 88,149; Sept. 3; Gaz. vol. 182; p. 243.
American Steel & Wire Company of New Jersey, The, Hoboken, N. J. Barb-wire. No. 89,079; Nov. 12; Gaz. vol. 184; p. 545.
American Sugar Refining Company, The, Jersey City, N. J. Sugar. Nos. 87,392–402; July 16; Gaz. vol. 180; p. 873.
American Sugar Refining Company, The, New York, N. Y. Sugar. No. 88,229; Sept. 10; Gaz. vol. 182; p. 503.
American Sugar Refining Company, Jersey City, N. J. Sugar. No. 88,444; Sept. 24; Gaz. vol. 182; p. 965.
American Suspender Co., Aurora, Ill. Combined suspender and garment-supporter. No. 87,514; July 23; Gaz. vol. 180; p. 1133.
American Tablet Co., New York, N. Y. Remedy for certain named ailments. No. 89,215; Dec. 3; Gaz. vol. 185; p. 243.
American Tablet Co., New York, N. Y. Purgative remedy for certain named diseases. No. 89,601; Dec. 31; Gaz. vol. 185; p. 1373.
American Textilose Company, Newburyport and Boston, Mass. Paper thread. Nos. 89,602–3; Dec. 31; Gaz. vol. 185; p. 1373.
American Thread Company, The, Jersey City, N. J. Spool-cotton, sewing-cotton, thread, and cotton yarn. Nos. 84,801–2; Jan. 9; Gaz. vol. 174; p. 579.
American Thread Company, Jersey City, N. J. Spool and sewing cotton, thread, and cotton yarns. Nos. 85,217–19; Feb. 6; Gaz. vol. 175; p. 259.
American Thread Company, Jersey City, N. J. Spool and sewing cotton, thread, and cotton yarn. No. 85,543; Feb. 27; Gaz. vol. 175; p. 1093.
American Trading Company, New York, N. Y. Evaporated apples. No. 85,220; Feb. 6; Gaz. vol. 175; p. 259.
American Well & Prospecting Co., Corsicana, Tex. Well-drilling machines. No. 85,221; Feb. 6; Gaz. vol. 175; p. 259.
American Well Works, The, Aurora, Ill. Certain named machines. No. 89,323; Dec. 10; Gaz. vol. 185; p. 519.
American Woolen Company, Jersey City, N. J., and Boston, Mass. Woolen piece goods. Nos. 87,028–30; June 25; Gaz. vol. 179; p. 1101.
American Woolen Company, Jersey City, N. J., and Boston, Mass. Woolen-cloth piece goods. Nos. 87,588–9; July 30; Gaz. vol. 180; p. 1387.
American Woolen Company, Jersey City, N. J., and Boston, Mass. Woolen piece goods. Nos. 89,324–5; Dec. 10; Gaz. vol. 185; p. 519.
American Writing Paper Company, Holyoke, Mass. Writing-paper. Nos. 84,803–5; Jan. 9; Gaz. vol. 174; p. 579.
American Writing Paper Company, Holyoke, Mass. Writing-paper. Nos. 85,027–31; Jan. 23; Gaz. vol. 174; p. 1023.
American Writing Paper Company, Holyoke, Mass. Writing-paper. No. 85,222; Feb. 6; Gaz. vol. 175; p. 259.
American Writing Paper Company, Holyoke, Mass. Writing-paper. No. 85,311; Feb. 13; Gaz. vol. 175; p. 537.
American Writing Paper Company, Holyoke, Mass. Writing and printing paper. No. 89,604; Dec. 31; Gaz. vol. 185; p. 1373.
American Z Electric Lamp Co., New York, N. Y. Incandescent electric lamps. No. 89,080; Nov. 12; Gaz. vol. 184; p. 545.
Amerikai Porczellan-Pouder Reszveny-Tarsasag, Budapest, Austria-Hungary. Certain named toilet preparations. No. 87,590; July 30; Gaz. vol. 180; p. 1387.

Alphabetical list of registrants of trade-marks—Continued.

Ames Shovel and Tool Company, Jersey City, N. J., and Boston, Mass. Shovels, spades, scoops, and drainage-tools. Nos. 85,722–3; Mar. 12; Gaz. vol. 176; p. 521.

Ames Shovel and Tool Company, Jersey City, N. J., and Boston, Mass. Shovels, spades, scoops, and drainage-tools. Nos. 85,789–90; Mar. 19; Gaz. vol. 176; p. 745.

Ames Shovel and Tool Company, Jersey City, N. J., and Boston, Mass. Shovels, spades, and scoops. No. 86,365; May 7; Gaz. vol. 178; p. 313.

Ammex Motion Picture Manufacturing Company, San Diego and National City, Cal. Exposed motion-picture films. No. 87,969; Aug. 20; Gaz. vol. 181; p. 815.

Ammon & Person, Jersey City, N. J. Oleomargarin. No. 86,264; Apr. 30; Gaz. vol. 177; p. 1291.

Ammon & Person, Jersey City, N. J. Oleomargarin. Nos 87,838–9; Aug. 13; Gaz. vol. 181; p. 535.

Ammon & Person, Jersey City, N. J. Oleomargarin. Nos. 88,150–2; Sept. 3; Gaz. vol. 182; p. 243.

Amory, Charles W., *et al.*, trustees. (See Amoskeag Manufacturing Company, assignor.)

Amory, William, *et al.*, trustees. (See Amoskeag Manufacturing Company, assignor.)

Amoskeag Manufacturing Company, assignor to F. P. Carpenter, T. J. Coolidge, T. J. Coolidge, Jr., Manchester, N. H., C. W. Amory, W. Amory, P. Dexter, G. A. Gardner, Boston, T. Parsons, Mattapoisett, F. C. Dumaine, Concord, G. Wigglesworth, Milton, G. L. Stone, Brookline, and G. V. Meyer, Hamilton, Mass., trustees. Cotton piece goods. No. 84,924; Jan. 16; Gaz. vol. 174; p. 823.

Amoskeag Manufacturing Company, Manchester, N. H., assignor to C. W. Amory, Boston, T. Parsons, Mattapoisett, Mass., F. P. Carpenter, Manchester, N. H., F. C. Dumaine Concord, T. J. Coolidge, T. J. Coolidge, Jr., Manchester, G. Wigglesworth, Milton, W. Amory, P. Dexter, Boston, G. L. Stone, Brookline, G. von L. Meyer, Hamilton, and G. A. Gardner, Boston, Mass., trustees. Cotton piece goods. Nos. 86,366–8; May 7; Gaz. vol. 178; p. 313.

Analgesol Chemical Company, Jersey City and Passaic, N. J. Medicinal tonics. No. 86,772; June 4; Gaz. vol. 179; p. 281.

Anchor Webbing Company, Woonsocket, R. I. Certain fancy goods. No. 85,544; Feb. 27; Gaz. vol. 175; p. 1093.

Anciens Établissements Pieper Ste. Ane., Herstal, near Liege, Belgium. Pistols, rifles, guns, and cartridges. No. 84,806; Jan. 9; Gaz. vol. 174; p. 579.

Anderson, Nels A., Tacoma, Wash. Hair-tonics. No 87,840; Aug. 13; Gaz. vol. 181; p. 535.

Anderson, William H., Springfield, Ill. Furniture-polish. No. 85,404; Feb. 20; Gaz. vol. 175; p. 837.

Andrew Jergens Co., The, New York, N. Y., and Cincinnati, Ohio. Toilet water, face-powder, and perfumes. No. 84,970; Jan. 16; Gaz. vol. 174; p. 824.

Andrew Jergens Co., The, New York, N. Y., and Cincinnati, Ohio. Toilet soap. No. 85,132; Jan. 30; Gaz. vol. 174; p. 1213.

Andrew Jergens Co., The, New York, N. Y., and Cincinnati, Ohio. Certain toilet preparations. No. 85,133; Jan. 30; Gaz. vol. 174; p. 1213.

Andrew Jergens Co., The, New York, N. Y., and Cincinnati, Ohio. Perfumes and toilet water. No. 85,134; Jan. 30; Gaz. vol. 174; p. 1213.

Andrew Jergens Co., New York, N. Y., and Cincinnati, Ohio. Toilet soaps. No. 85,749; Mar. 12; Gaz. vol. 176; p. 522.

Andrews & Company, O. E., Jersey City, N. J. Flavoring extracts and powdered cocoa. No. 84,925; Jan. 16; Gaz. vol. 174; p. 823.

Angelus Company, Pasadena, Cal. Concentrating fresh fruit and fruit-juices for flavoring purposes. No. 88,445; Sept. 24; Gaz. vol. 182; p. 965.

Anglo-American Pharmaceutical Company Ltd., Croydon, England, and New York, N. Y. Liniment. No. 84,926; Jan. 16; Gaz. vol. 174; p. 823.

Anglo-Continental Guano Works, London, England; Hamburg and Emmerich, Germany, and Antwerp, Belgium. Fertilizers. No. 87,143; July 2; Gaz. vol. 180; p. 315.

Anheuser & Fehrs, Kreuznach, Germany. Wines. No. 86,369; May 7; Gaz. vol. 178; p. 313.

Annin & Co., New York, N. Y. Bunting. No. 86,118; Apr. 16; Gaz. vol. 177; p. 765.

Ansco Company, Binghamton, N. Y. Photographic developing-paper. No. 86,265; Apr. 30; Gaz. vol. 177; p. 1291.

Anson, Charles, Stockton, Cal. Furniture-polish. No. 88,230; Sept. 10; Gaz. vol. 182; p. 503.

Ansonia Clock Company, New York, N. Y. Watches. No. 85,312; Feb. 13; Gaz. vol. 175; p. 537.

Ansonia Clock Company, New York, N. Y. Watches. No. 89,431; Dec. 17; Gaz. vol. 185; p. 823.

Ansted & Burk Co., The, Springfield, Ohio. Wheat-flour. No. 88,043; Aug. 27; Gaz. vol. 181; p. 1067.

Antholine Manufacturing Co., The, Hutchinson, Kans. Ointments. No. 84,894; Jan. 9; Gaz. vol. 174; p. 581.

Antrim & Sons, C. W., Richmond, Va. Certain named foods. No. 88,827; Oct. 29; Gaz. vol. 183; p. 1301.

Apex Fish Company, Anacortes, Wash. Canned salmon. No. 87,032; June 25; Gaz. vol. 179; p. 1101.

Arabol M'f'g. Co., The, New York, N. Y. Rosin employed as a paper-size. No. 86,199; Apr. 23; Gaz. vol. 177; p. 1039.

Architect Shoe Company, Schenectady, N. Y. Boots and shoes. No. 86,266; Apr. 30; Gaz. vol. 177; p. 1291.

Arger et Cie., Paris, France, and New York, N. Y. Mineral water. No. 88,044; Aug. 27; Gaz. vol. 181; p. 1067.

Armac Motor Co., Chicago, Ill. Motor-cycles. No. 84,928; Jan. 16; Gaz. vol. 174; p. 823.

Armington, Arthur A., Providence, R. I. Designs, drawings, circulars, &c. No. 89,326; Dec. 10; Gaz. vol. 185; p. 519.

Armor, Alpheus, Pittsburgh, Pa. Stone-polishing preparation. No. 85,405; Feb. 20; Gaz. vol. 175; p. 837.

Armor, Alpheus, Pittsburgh, Pa. Certain pharmaceutical preparation. No. 87,515; July 23; Gaz. vol. 180; p. 1133.

Armour and Company, Chicago, Ill. Cleaning preparation. No. 88,547; Oct. 1; Gaz. vol. 183; p. 213.

Armstrong Cork Company, Pittsburgh, Pa. Heat-insulating materials. No. 86,503; May 14; Gaz. vol. 178; p. 587.

Armstrong Packing Company, assignor to Armstrong Refining Co., Dallas, Tex. Certain foods. No. 87,404; July 16; Gaz. vol. 180; p. 873.

Armstrong Refining Co. (See Armstrong Packing Company, assignor.)

Armstrong Refining Company, Dallas, Tex. Lard. No. 85,406; Feb. 20; Gaz. vol. 175; p. 837.

Armstrong, Thomas, Washington, D. C. Non-alcoholic tonic beverage and soda-water. No. 88,153; Sept. 3; Gaz. vol. 182; p. 243.

Arnold, Isaac H., Westport, Ontario, Canada. Pills. No. 88,993; Nov. 5; Gaz. vol. 184; p. 281.

Arnold, Nelson B., New York, N. Y. Rubber-coating composition. No. 88,045; Aug. 27; Gaz. vol. 181; p 1067.

Arrow Electric Company, The, Hartford, Conn. Electric sockets and receptacles. No. 86,119; Apr. 16; Gaz. vol. 177; p. 765.

Arthur Chemical Co., The, New Haven, Conn. Toilet-powder. No. 85,054; Jan. 30; Gaz. vol. 174; p. 1211.

Arthur Chemical Company, New Haven, Conn. Hydrogen peroxid. No. 85,407; Feb. 20; Gaz. vol. 175; p. 837.

Arthur Courtin Company, The, New York, N. Y. Limes. No. 86,679; May 21; Gaz. vol. 178; p. 882.

Artists' Model Corset Company, The, Cleveland, Ohio. Corsets. No. 85,055; Jan. 30; Gaz. vol. 174; p. 1211.

Aschenbach & Miller, Incorporated, Philadelphia, Pa. Germicidal, deodorizing, and disinfecting liquid. No. 85,313; Feb. 13; Gaz. vol. 175; p. 537.

Aschéri, Antoine, Paris, France. Pneumatic tires, covers, and treads. No. 85,937; Apr. 2; Gaz. vol. 177; p. 235.

Ascione & Company, A., New York, N. Y. Canned tomatoes. No. 85,724; Mar. 12; Gaz. vol. 176; p. 521.

Aseptic Products Company, Long Island City, N. Y. Corn and bunion plasters. No. 88,825; Oct. 29; Gaz. vol. 183; p. 1301.

Ashe, Noyes & Small Co., Auburn, Me. Shoes. No. 87,708; Aug. 6; Gaz. vol. 181; p. 259.

Askyo-Dêler-Vantage Co. Inc., Baltimore, Md. Playing-cards. No. 87,709; Aug. 6; Gaz. vol. 181; p. 259.

Astier, Placide A., Paris, France. Substitute for iodin and iodids. No. 86,974; June 18; Gaz. vol. 179; p. 847.

Astoria & Puget Sound Canning Co., Bellingham, Wash. Canned salmon. Nos. 88,446–7; Sept. 24; Gaz. vol. 182; p. 965.

Astoria & Puget Sound Canning Co., Bellingham, Wash. Canned salmon. No. 88,826; Oct. 29; Gaz. vol. 183; p. 1301.

Astoria & Puget Sound Canning Co., Bellingham, Wash. Canned salmon. No. 89,432; Dec. 17; Gaz. vol. 185; p. 823.

Astoria & Puget Sound Canning Co., Bellingham, Wash. Canned salmon. No. 89,605; Dec. 31; Gaz. vol. 185; p. 1373.

Athens Mattress and Spring Bed Co., Athens, Ga. Mattresses. No. 88,448; Sept. 24; Gaz. vol. 182; p. 965.

Atkins Co., The, New York, N. Y. Metal cleaning and polishing compounds. No. 89,606; Dec. 31; Gaz. vol. 185; p. 1373.

Atlanta Agricultural Works, Atlanta, Ga. Fertilizer-distributers and harrows. No. 85,896; Mar. 26; Gaz. vol. 176; p. 1066.

Atlanta Agricultural Works, Atlanta, Ga. Cultivators. No. 85,897; Mar. 26; Gaz. vol. 176; p. 1066.

Atlanta Agricultural Works, Atlanta, Ga. Scrapers. No. 86,868; June 11; Gaz. vol. 179; p. 567.

Atlanta Metal Bed Company, Atlanta, Ga. Metal beds, cribs, cots, couches, &c. No. 87,841; Aug. 13; Gaz. vol. 181; p. 535.

Atlantic Coast Hardware Co., Boston, Mass. Paper roofing. No. 86,200; Apr. 23; Gaz. vol. 177; p. 1039.

Atlantic Cotton Mills, Lawrence and Boston, Mass. Cotton piece goods. No. 85,314; Feb. 13; Gaz. vol. 175; p. 537.

Atlantic Cotton Mills, Lawrence and Boston, Mass. Cotton piece goods. No. 85,545; Feb. 27; Gaz. vol. 175; p. 1093.

Atlantic Macaroni Co., The, Long Island City, N. Y. Macaroni. No. 86,370; May 7; Gaz. vol. 178; p. 313.

Alphabetical list of registrants of trade-marks—Continued.

Atlantic Macaroni Co., The, Long Island City, N. Y. Macaroni. No. 89,081; Nov. 12; Gaz. vol. 184; p. 545.
Atlantic Maritime Company, Kittery, Me., and Boston, Mass. Wheat-flour. No. 86,869; June 11; Gaz. vol. 179; p. 567.
Atlantic Packing Co., The, Baltimore, Md. Oysters in cans. No. 85,725; Mar. 12; Gaz. vol. 176; p. 521.
Atlas Portland Cement Company, The, Northampton, Pa. Lime and building-plaster compositions. No. 85,938; Apr. 2; Gaz. vol. 177; p. 235.
Atlas Portland Cement Company, The, Northampton, Pa. Portland cement. No. 86,973; June 18; Gaz. vol. 179; p. 847.
Atlas Portland Cement Company, The, Northampton, Pa. Bricks. No. 88,047; Aug. 27; Gaz. vol. 181; p. 1067.
Atlas Preservative Co. of America, New York, N. Y. Ready-mixed paint. No. 87,591; July 30; Gaz. vol. 180; p. 1387.
Atlas Tack Company, Fairhaven, N. J. Wear-resisting slugs for boot and shoe heels. No. 88,231; Sept. 10; Gaz. vol. 182; p. 503.
Atwater Company, J. H., Providence, R. I. Files for papers and books. No. 84,927; Jan. 16; Gaz. vol. 174; p. 823.
Aubry, Enos J., Toledo, Ohio. Ice-cream cones. No. 89,608; Dec. 31; Gaz. vol. 185; p. 1373.
Aubry Sisters, New York, N. Y. Cold and greaseless creams. No. 84,715; Jan. 2; Gaz. vol. 174; p. 283.
Aubry Sisters, New York, N. Y. Certain toilet preparations. Nos. 85,315–16; Feb. 13; Gaz. vol. 175; p. 537.
Aubuchon-Garneau Candy Company, St. Louis, Mo. Candy and candied popcorn. No. 85,056; Jan. 30; Gaz. vol. 174; p. 1211.
Auburn Specialties Company, Auburn, N. Y. Polishing-cloths. No. 87,710; Aug. 6; Gaz. vol. 181; p. 259.
Aug. Wright Co., Petersburg, Va. Leather shoes. No. 88,145; Aug. 27; Gaz. vol. 181; p. 1070.
August Buermann Manufacturing Co., Newark, N. J. Bits, spurs, stirrups, harness, &c. No. 88,465; Sept. 24; Gaz. vol. 182; p. 965.
Austin, Nichols & Co., New York, N. Y. Compound of coffee and chicory. No. 87,309; July 9; Gaz. vol. 180; p. 597.
Austin, Nichols & Co., New York, N. Y. Canned peas, corn, and peaches. No. 87,405; July 16; Gaz. vol. 180; p. 873.
Austin Reed, Limited, London, England. Collars. No. 88,788; Oct. 22; Gaz. vol. 183; p. 1029.
Austin, Richard, Memphis, Tenn. Washing compound. No. 85,057; Jan. 30; Gaz. vol. 174; p. 1211.
Auto Specialty Manufacturing Co., Inc., Indianapolis, Ind. Toy vehicles. No. 86,870; June 11; Gaz. vol. 179; p. 567.
Auto Strop Safety Razor Co., New York, N. Y. Strops and soaps. No. 88,048; Aug. 27; Gaz. vol. 181; p. 1067.
Auto Strop Safety Razor Co., New York, N. Y. Razors, blades, knives, files, and scissors. No. 88,449; Sept. 24; Gaz. vol. 182; p. 965.
Auto Strop Safety Razor Co., New York, N. Y. Brushes. No. 88,726; Oct. 22; Gaz. vol. 183; p. 1027.
Auto Strop Safety Razor Co., New York, N. Y. Strops and soaps. No. 89,082; Nov. 12; Gaz. vol. 184; p. 545.
Autoforce Ventilating System, Pierre, S. D., and Boston, Mass. Ventilating apparatus. No. 86,871; June 11; Gaz. vol. 179; p. 567.
Autopiano Company, The, New York, N. Y. Pianos. No. 87,406; July 16; Gaz. vol. 180; p. 873.
Autosales Gum & Chocolate Company, New York, N. Y. Chewing-gum. No. 89,609; Dec. 31; Gaz. vol. 185; p. 1373.
Avery Scale Co., The, North Milwaukee, Wis. Scales. No. 89,610; Dec. 31; Gaz. vol. 185; p. 1373.
Ayers, Watson W., West Allis, Wis. Games. No. 87,144; July 2; Gaz. vol. 180; p. 315.
Azone Manufacturing Company, Kingman, Kans. Hair-tonic and remedies for certain diseases. No. 84,716; Jan. 2; Gaz. vol. 174; p. 283.
B. Altman & Co., New York, N. Y. Gloves. No. 86,019; Apr. 9; Gaz. vol. 177; p. 519.
B. Altman & Co., New York, N. Y. Corsets. Nos. 88,721–3; Oct. 22; Gaz. vol. 183; p. 1027.
B. Altman & Co., New York, N. Y. Gloves. No. 88,724; Oct. 22; Gaz. vol. 183; p. 1027.
B. & C. Baking Co., Dayton, Ohio. Cakes. No. 86,655; May 21; Gaz. vol. 178; p. 881.
B. D. Rising Paper Company, Housatonic, Mass. Writing-paper. No. 86,504; May 14; Gaz. vol. 178; p. 587.
B. F. Goodrich Company, Akron, Ohio. Rubber automobile-tires. No. 87,330; July 9; Gaz. vol. 180; p. 597.
B. F. Goodrich Company, Akron, Ohio. Aeroplane-cloth. No. 88,485; Sept. 24; Gaz. vol. 182; p. 966.
B & F Manufacturing Co., Greeley, Colo. Certain parts of harness. No. 85,317; Feb. 13; Gaz. vol. 175; p. 537.
B. F. Sturtevant Company, Boston, Mass. Certain kinds of machinery. No. 86,744; May 28; Gaz. vol. 178; p. 1149.
B. F. Sturtevant Company, Boston, Mass. Electric motors, dynamos, generating sets, &c. No. 89,714; Dec. 31; Gaz. vol. 185; p. 1376.
B. H. Gladding Dry Goods Co., Providence, R. I. Certain named knitted, netted, and textile fabrics. No. 87,750; Aug. 6; Gaz. vol. 181; p. 260.
B. H. Gladding Dry Goods Co., Providence, R. I. Certain clothing. No. 87,751; Aug. 6; Gaz. vol. 181; p. 260.
B. M. Shipman Co., New York, N. Y. Certain fish. No. 87,936; Aug. 13; Gaz. vol. 181; p. 537.
B. O. Wright & Cole, New York, N. Y. Umbrellas. No. 84,024; Jan. 16; Gaz. vol. 174; p. 826.
B. P. Ducas Co., New York, N. Y. Chemical and laundry starches. No. 84,731; Jan. 2; Gaz. vol. 174; p. 283.
B. P. Ducas Co., New York, N. Y. Oils for treatment of textiles and leather. No. 85,091; Jan. 30; Gaz. vol. 174; p. 1212.
B. T. Babbitt, Jersey City, N. J., and New York, N. Y. Soap. No. 87,711; Aug. 6; Gaz. vol. 181; p. 259.
B. T. Babbitt, Jersey City, N. J., and New York, N. Y. Soap. No. 88,155; Sept. 3; Gaz. vol. 182; p. 243.
Babcock, Hurd & Co., Cleveland, Ohio. Cheese. No. 86,656; May 21; Gaz. vol. 178; p. 881.
Babene Manufacturing Company, The, Dover, Del., and Baltimore, Md. Medicine for certain children's diseases. No. 86,023; Apr. 9; Gaz. vol. 177; p. 519.
Bach & Company, Chicago, Ill. Watches and watchcases. No. 86,267; Apr. 30; Gaz. vol. 177; p. 1291.
Back-Rack Collar Button Co., Providence, R. I. Collar-buttons. No. 88,451; Sept. 24; Gaz. vol. 182; p. 965.
Badger State Cleaner Company, Seymour, Wis. Cleaning-powder for metal, wood, &c. No. 89,085; Nov. 12; Gaz. vol. 184; p. 545.
Badische Anilin- & Soda-Fabrik, Ludwigshafen-on-the-Rhine, Germany. Leather preservatives, finishing and tanning agents, &c. No. 89,611; Dec. 31; Gaz. vol. 185. p. 1373.
Baer Bros., New York, N. Y. Paints and painters' material. No. 87,033; June 25; Gaz. vol. 179; p. 1101.
Baer Bros., New York, N. Y. Certain paint and painters' materials. No. 87,712; Aug. 6; Gaz. vol. 181; p. 259.
Baer Bros., New York, N. Y. Bronze and bronzing liquids. No. 88,232; Sept. 10; Gaz. vol. 182; p. 503.
Bagley, Wm. W., New York, N. Y. Chewing-gum. No. 85,640; Mar. 5; Gaz. vol. 176; p. 269.
Bailey, William F., Macon, Ga. Liniment. No. 86,121; Apr. 16; Gaz. vol. 177; p. 765.
Bailly & Cie., P., Paris, France. Shoulder-braces and suspenders. No. 89,327; Dec. 10; Gaz. vol. 185; p. 519.
Baker, Charles W., Aberdeen, Md. Canned vegetables. No. 85,058; Jan. 30; Gaz. vol. 174; p. 1211.
Baker, Edwin M., Tutwiler, Miss. Insecticide. No. 89,433; Dec. 17; Gaz. vol. 185; p. 823.
Baker, John W., Stamford, Conn. Game-scoring boards. No. 87,034; June 25; Gaz. vol. 179; p. 1101.
Baker, Walter D., Indianapolis, Ind. Dyes. No. 86,371; May 7; Gaz. vol. 178; p. 313.
Baldwin Company, Cincinnati, Ohio. Pianos and player-pianos. Nos. 89,216–17; Dec. 3; Gaz. vol. 185; p. 243.
Baldwin Company, The, Cincinnati, Ohio. Autopneumatic player-pianos. No. 89,434; Dec. 17; Gaz. vol. 185; p. 823.
Baldwin, Edward L., San Francisco, Cal. Medicine for headaches, stomach trouble, &c. No. 86,024; Apr. 9; Gaz. vol. 177; p. 519.
Baldwin Refrigerator Co., The, Burlington, Vt. Refrigerators and ice-boxes. No. 84,929; Jan. 16; Gaz. vol. 174; p. 823
Baldwin, Tuthill & Bolton, Grand Rapids, Mich. Brazing compounds and fluxes. No. 89,435; Dec. 17; Gaz. vol. 185; p. 823.
Ballard, James F., St. Louis, Mo. Certain medicines and pharmaceutical preparations. No. 87,035; June 25; Gaz. vol. 179; p. 1101.
Ballard, James F., St. Louis, Mo. Preparation for the treatment of affections of the eye. No. 87,713; Aug. 6; Gaz. vol. 181; p. 259.
Ballard, Sarah E., New York, N. Y. Veil-holders. No. 85,223; Feb. 6; Gaz. vol. 175; p. 259.
Ballkards Company, The, Cleveland, Ohio. Playing-cards. No. 85,726; Mar. 12; Gaz. vol. 176; p. 521.
Baltimore Bargain House, Baltimore, Md. Hosiery. Nos. 86,505–6; May 14; Gaz. vol. 178; p. 587.
Baltimore Bargain House, Baltimore, Md. Certain jewelry of precious or plated metal. No. 87,592; July 30; Gaz. vol. 180; p. 1387.
Baltimore Brush Co., The, Baltimore, Md. Certain brushes. No. 87,836; Aug. 6; Gaz. vol. 181; p. 263.
Balzhiser, Harry, New York, N. Y. Preparation of cod-liver oil. No. 86,201; Apr. 23; Gaz. vol. 177; p. 1039.
Bangor Slate Association, Inc., Bangor, Pa. Roofing and structural slate. No. 89,612; Dec. 31; Gaz. vol. 185; p. 1373.
Banner Rock Products Company, Alexandria, Ind. Thermal insulation. No. 85,641; Mar. 5; Gaz. vol. 176; p. 269.
Banthien, Gustav, Hamburg, Germany. Sauces and preparations for making bouillon and soups. No. 85,059; Jan. 30; Gaz. vol. 174; p. 1211.
Banthien, Gustav, Hamburg, Germany. Preparation for making bouillon. No. 85,791; Mar. 19; Gaz. vol. 176; p. 745.

Alphabetical list of registrants of trade-marks—Continued.

Barber Medicine Co., The, Barre, Vt. Antiseptic wash and blood-tonic. No. 87,714; Aug. 6; Gaz. vol. 181; p. 259.
Barbour, John E., Lake View, N. J. Thread. Nos. 84,807–8; Jan. 9; Gaz. vol. 174; p. 579.
Bardou, Eugène, Perpignan, France. Cigarette-papers. No. 87,516; July 23; Gaz. vol. 180; p. 1133.
Barium Products Company, Scranton, Pa. Chemical for spraying vegetation. No. 87,715; Aug. 6; Gaz. vol. 181; p. 259.
Barrett Manufacturing Company, New York, N. Y. Waterproof sheathing and building papers. No. 84,717; Jan. 2; Gaz. vol. 174; p. 283.
Barrett Manufacturing Company, New York, N. Y. Pitch. No. 85,408; Feb. 20; Gaz. vol. 175; p. 837.
Barrett Manufacturing Company, New York, N. Y. Tar, pitch, asphalt, &c. No. 85,546; Feb. 27; Gaz. vol. 175; p. 1093.
Barrett Manufacturing Company, New York, N. Y. Disinfectants, &c. No. 85,792; Mar. 19; Gaz. vol. 176; p. 745.
Barrett Manufacturing Company, New York, N. Y. Sheathing-paper. No. 85,939; Apr. 2; Gaz. vol. 177; p. 235.
Barrett Manufacturing Company, New York, N. Y. Certain construction materials. No. 86,268; Apr. 30; Gaz. vol. 177; p. 1291.
Barrett Manufacturing Company, New York, N. Y. Pitch. No. 86,773; June 4; Gaz. vol. 179; p. 281.
Barrett Manufacturing Company, New York, N. Y. Disinfectants and insecticides. Nos. 86,774–5; June 4; Gaz. vol. 179; p. 281.
Barrett Manufacturing Company, New York, N. Y. Coal-tar oils. No. 86,872; June 11; Gaz. vol. 179; p. 567.
Barrett Manufacturing Company, New York, N. Y. Certain construction materials. No. 87,311; July 9; Gaz. vol. 180; p. 597.
Barrett Manufacturing Company, New York, N. Y. Prepared tar, pitch, and asphalt for roofing construction. No. 87,312; July 9; Gaz. vol. 180; p. 597.
Barrett Manufacturing Company, New York, N. Y. Tar-distillates. Nos. 88,049–50; Aug. 27; Gaz. vol. 181; p. 1067.
Barrett Manufacturing Company, New York, N. Y. Pitch. No. 88,452; Sept. 24; Gaz. vol. 182; p. 965.
Barrett Manufacturing Company, New York, N. Y. Roofing felts and papers. No. 88,659; Oct. 15; Gaz. vol. 183; p. 777.
Barthels Mfg. Co., New York, N. Y. Braids, shoe and corset laces, and galloons. No. 86,690; May 28; Gaz. vol. 178; p. 1147.
Barthels Mfg. Co., New York, N. Y. Braids, galloons, shoe and corset laces. No. 88,828; Oct. 29; Gaz. vol. 183; p. 1301.
Bartz, Nicholas B., Chicago, Ill. Ointment. No. 88,611; Oct. 8; Gaz. vol. 183; p. 499.
Bash, Daniel F., Indianapolis, Ind. Certain raw or partly-prepared materials. No. 86,568; May 21; Gaz. vol. 178; p. 879.
Bass, Ratcliff & Gretton, Limited, Burton-upon-Trent, England. Certain named stouts, beer, porter, wines, and ales. Nos. 88,264–5; Sept. 10; Gaz. vol. 182; p. 504.
Bass, Ratcliff & Gretton, Limited, Burton-upon-Trent, England. Pale ale and beer. No. 88,266; Sept. 10; Gaz. vol. 182; p. 504.
Bass, Ratcliff & Gretton, Limited, Burton-upon-Trent, England. Certain named stouts, beer, porter, wines, and ales. No. 88,267; Sept. 10; Gaz. vol. 182; p. 504.
Bassett & Co., Geo. F., New York, N. Y. Chinaware. No. 87,517; July 23; Gaz. vol. 180; p. 1133.
Bates, Henry A., Middletown, Conn. Compound for the preservation of thread. No. 86,202; Apr. 23; Gaz. vol. 177; p. 1039.
Bates Manufacturing Company, Lewiston, Me. Cotton piece goods. No. 86,025; Apr. 9; Gaz. vol. 177; p. 519.
Batjer & Company, New York, N. Y. Sardines. No. 88,051; Aug. 27; Gaz. vol. 181; p. 1067.
Bauer & Black, Chicago, Ill. Corn and bunion plasters. No. 87,313; July 9; Gaz. vol. 180; p. 597.
Bauer & Cie., Berlin, Germany. Disinfecting means for mouth and throat. Nos. 84,896–7; Jan. 9; Gaz. vol. 174; p. 582.
Bauer & Cie., Berlin, Germany. Dietetic preparations. No. 86,776; June 4; Gaz. vol. 179; p. 281.
Bauer & Cie., Berlin, Germany. Dietetic preparations to be used as a remedy. No. 87,146; July 2; Gaz. vol. 180; p. 315.
Bauer & Cie., Berlin, Germany. Disinfecting means for mouth and throat. No. 88,829; Oct. 29; Gaz. vol. 183; p. 1301.
Bauer, Ludwig, Niederlössnitz, near Dresden, Germany. Remedy against biliary and renal calculus. No. 88,156; Sept. 3; Gaz. vol. 182; p. 243.
Baumgaertner, Fritz, Cleveland, Ohio. Odometers. No. 88,453; Sept. 24; Gaz. vol. 182; p. 965.
Baumgardt, Franz, Spandau, near Berlin, Germany. Disinfecting devices. No. 86,372; May 7; Gaz. vol. 178; p. 313.
Bay State Belting Co., Boston, Mass. Leather belting. No. 87,314; July 9; Gaz. vol. 180; p. 597.
Bayerson Oil Works, Erie, Pa. Core-makers' oils. No. 84,718; Jan. 2; Gaz. vol. 174; p. 283.
Beacon Falls Rubber Shoe Company, The, Beacon Falls, Conn. Rubber boots, shoes, arctics, &c. No. 87,407; July 16; Gaz. vol. 180; p. 873.
Beaird, Wm. F., Salt Lake City, Utah. Corn and bunion remedy. No. 88,612; Oct. 8; Gaz. vol. 183; p. 499.
Beardslee Chandelier Manufacturing Company, Chicago, Ill. Certain named lighting appliances and apparatus. No. 89,329; Dec. 10; Gaz. vol. 185; p. 519.
Beattie Manufacturing Company, Little Falls, N. J. Velvet rugs. No. 85,642; Mar. 5; Gaz. vol. 176; p. 269.
Beaudry & Company, Inc., Boston, Mass. Power and trip hammers. No. 88,994; Nov. 5; Gaz. vol. 184; p. 281.
Beautility Art Company, Inc., New York, N. Y. Electric lamps. No. 88,995; Nov. 5; Gaz. vol. 184; p. 281.
Bechtold, Lewis, New York, N. Y. Lithographing-stones. No. 89,086; Nov. 12; Gaz. vol. 184; p. 545.
Bedford-Pittman Company, Philadelphia, Pa. Leather shoes. No. 84,719; Jan. 2; Gaz. vol. 174; p. 283.
Bedford Safety Razor Company, Bedford, Mass. Safety-razors. No. 87,842; Aug. 13; Gaz. vol. 181; p. 535.
Bee Bee Confection Co., Dayton, Ohio. Chewing-gum. No. 88,455; Sept. 24; Gaz. vol. 182; p. 965.
Bee Dee Stock Medicine Co., Chattanooga, Tenn. Liver medicine for live stock. No. 85,547; Feb. 27; Gaz. vol. 175; p. 1093.
Beech-Nut Packing Company, Canajoharie, N. Y. Certain foods. No. 89,613; Dec. 31; Gaz. vol. 185; p. 1373.
Beecham, David E., Lapeer, Mich. Certain pharmaceutical preparations. No. 86,975; June 18; Gaz. vol. 179; p. 847.
Beegee Company, New York, N. Y. Glass ink-erasers. No. 89,529; Dec. 24; Gaz. vol. 185; p. 1049.
Beers, William H., Mamaroneck, N. Y. Medicinal preparation in the treatment of malaria. No. 89,614; Dec. 31; Gaz. vol. 185; p. 1373.
Behrend & Rothschild, New York, N. Y. Rubber toys. No. 86,373; May 7; Gaz. vol. 178; p. 313.
Behrend & Rothschild, New York, N. Y. Metal drinking-cups. No. 86,569; May 21; Gaz. vol. 178; p. 879.
Behrens & Company, Albert I., New York, N. Y. Knitted athletic garments. No. 89,322; Dec. 10; Gaz. vol. 185; p. 519.
Beline, Elie, New York, N. Y. Mesh bags, vanity and cigarette cases, bric-à-brac, &c. No. 85,032; Jan. 23; Gaz. vol. 174; p. 1023.
Bell & Company, Allen, Knoxville, Tenn. Soaps. No. 88,456; Sept. 24; Gaz. vol. 182; p. 965.
Belleville Hosiery Mills, Belleville, Ill. Hosiery. No. 89,331; Dec. 10; Gaz. vol. 185; p. 519.
Benda, George, New York, N. Y. Certain painters' materials. Nos. 86,203–4; Apr. 23; Gaz. vol. 177; p. 1039.
Benedetti, Vincenzo, New York, N. Y. Boots, shoes, slippers, insoles, &c. No. 89,530; Dec. 24; Gaz. vol. 185; p. 1049.
Benjamin & Johnes, Newark, N. J. Ladies' and children's clothing. No. 86,269; Apr. 30; Gaz. vol. 177; p. 1291.
Benjamin Moore & Co., Brooklyn, N. Y. Oil-paints. No. 85,468; Feb. 20; Gaz. vol. 175; p. 839.
Bennet, Philip G. H., Boston, Mass. Punches, shears, rod-cutters, &c. No. 87,970; Aug. 20; Gaz. vol. 181; p. 815.
Bennett, Oliver E., Boston, Mass. Booklet. No. 87,717; Aug. 6; Gaz. vol. 181; p. 259.
Bentley Medicine Company, The, Dallas, Tex. Remedy for all derangements of the female organs. No. 89,615; Dec. 31; Gaz. vol. 185; p. 1373.
Berdan & Company, Toledo, Ohio. Rolled oats and rice. No. 86,873; June 11; Gaz. vol. 179; p. 567.
Berdan & Company, Toledo, Ohio. Certain named foods. No. 88,830; Oct. 29; Gaz. vol. 183; p. 1301.
Berg, Max, Philadelphia, Pa. Premium-stamps. No. 86,657; May 21; Gaz. vol. 178; p. 881.
Berg, Wilhelm, Erlenstegen, Germany. Disci. No. 88,052; Aug. 27; Gaz. vol. 181; p. 1067.
Berger & Sons, C. L., Boston, Mass. Certain measuring and scientific appliances. No. 88,053; Aug. 27; Gaz. vol. 181; p. 1067.
Bergmann & Simons, G. m. b. H., Mülheim-on-the-Rhine, Germany. White and red lead, orange mineral, &c. No. 89,087; Nov. 12; Gaz. vol. 184; p. 545.
Bergmeyer, Otto, Dayton, Ky. Headache-powders. No. 89,616; Dec. 31; Gaz. vol. 185; p. 1373.
Bergstrom Stove Company, Neenah, Wis. Heating-furnaces. No. 86,026; Apr. 9; Gaz. vol. 177; p. 519.
Berkowitz, Armin, Hamilton, Ohio. Candies and chocolates. No. 87,147; July 2; Gaz. vol. 180; p. 315.
Berlin Chemical Company, The, Jersey City, N. J. Medicaments. No. 85,318; Feb. 13; Gaz. vol. 175; p. 537.
Berndorf Metal Works Arthur Krupp, Berndorf, Austria-Hungary. Table-knives. Nos. 86,874–5; June 11; Gaz. vol. 179; p. 567.
Berndorf Metal Works Arthur Krupp, Berndorf, Austria-Hungary. Egg-beaters. No. 88,831; Oct. 29; Gaz. vol. 183; p. 1301.
Berndorf Metal Works Arthur Krupp, Berndorf, Austria-Hungary. Certain named electroplated and refined-nickel-silver articles. No. 88,996; Nov. 5; Gaz. vol. 184; p. 281.

Alphabetical list of registrants of trade-marks—Continued.

Berndt & Co., Baltimore, Md. South American tea. No. 88,832; Oct. 29; Gaz. vol. 183; p. 1301.
Bernheim, Samuel, Paris, France. Preparation having a basis of horse-meat juice. No. 84,930; Jan. 16; Gaz. vol. 174; p. 823.
Bernheimer & Bro., Jacob S., New York, N. Y. Cotton piece goods. No. 89,088; Nov. 12; Gaz. vol. 184; p. 545.
Berry & Co., C., Boston, Mass. Whisky. No. 86,976; June 18; Gaz. vol. 179; p. 847.
Berryman and Schlegelmilch, Philadelphia, Pa. Ozonized water. No. 86,570; May 21; Gaz. vol. 178; p. 879.
Berryman & Schlegelmilch, Philadelphia, Pa. Ice. No. 87,148; July 2; Gaz. vol. 180; p. 315.
Bertha Mfg. Co., South Norfolk, Va. Nurses' uniforms. No. 86,495; May 7; Gaz. vol. 178; p. 317.
Bertucci, Peter J., New Orleans, La. Flavoring extracts. No. 89,332; Dec. 10; Gaz. vol. 185; p. 519.
Berwind Fuel Company, Minneapolis, Minn. Briquets. Nos. 87,718–19; Aug. 6; Gaz. vol. 181; p. 259.
Best Manufacturing Company, Inc., The, San Leandro, Cal. Harvesters and traction-engines. No. 87,720; Aug. 6; Gaz. vol. 181; p. 259.
Best, Richard, New York, N. Y. Lead-pencils and copying-pencils. No. 88,660; Oct. 15; Gaz. vol. 183; p. 777.
Biedermann Bros., Chicago, Ill. Coffee. No. 85,224; Feb. 6; Gaz. vol. 175; p. 259.
Bien, Adolphe, Paris, France. Watches. No. 86,507; May 14; Gaz. vol. 178; p. 587.
Big Bend Milling Co., The, Davenport, Wash. Wheat-flour. No. 85,643; Mar. 5; Gaz. vol. 176; p. 269.
Big Spring Mfg. Co., Newville, Pa. Ointment. No. 88,458; Sept. 24; Gaz. vol. 182; p. 965.
Big Store Company, The, Cincinnati, Ohio. Certain clothing. No. 87,843; Aug. 13; Gaz. vol. 181; p. 535.
Bigsby Manufacturing Company, The, Cleveland, Ohio. Spark-plugs. No. 85,060; Jan. 30; Gaz. vol. 174; p. 1211.
Biloxi Canning Co. of Louisiana, New Orleans, La. Canned oysters, shrimps, &c. No. 85,061; Jan. 30; Gaz. vol. 174; p. 1211.
Bingham, Herbert M., New York, N. Y. Printers' rollers. Nos. 86,691–2; May 28; Gaz. vol. 178; p. 1147.
Binney & Smith Company, New York, N. Y. Crayons. No. 89,531; Dec. 24; Gaz. vol. 185; p. 1049.
Biolac Fermented Milk Company, The, New York, N. Y. Fermented milk. No. 89,089; Nov. 12; Gaz. vol. 184; p. 545.
Birckhead, Stephen J., Baltimore, Md. Remedy for cancer, eczema, &c. No. 87,971; Aug. 20; Gaz. vol. 181; p. 815.
Bird, Charles S., East Walpole, Mass. Roofing, water-proof sound and heat insulating papers. No. 86,876; June 11; Gaz. vol. 179; p. 567.
Birdsall Brothers Co., Seelyville and Honesdale, Pa. Shirts and trousers. No. 85,062; Jan. 30; Gaz. vol. 174; p. 1211.
Birdsall Brothers Co., Seelyville and Honesdale, Pa. Blankets, woolen piece goods, and flannels. No. 89,532; Dec. 24; Gaz. vol. 185; p. 1049.
Birdsey-Somers Co., New York, N. Y. Corset and under-waists. No. 85,644; Mar. 5; Gaz. vol. 176; p. 269.
Birdsey-Somers Co., New York, N. Y. Corsets. No. 86,508; May 14; Gaz. vol. 178; p. 587.
Birdsey-Somers Company, New York, N. Y. Corsets. No. 89,333; Dec. 10; Gaz. vol. 185; p. 519.
Birk Bros. Brewing Co., Chicago, Ill. Malt preparation. No. 86,777; June 4; Gaz. vol. 179; p. 281.
Birken & Co., T. I., Nottingham, England. Nottingham cotton-lace curtains. No. 86,122; Apr. 16; Gaz. vol. 177; p. 765.
Birmingham Macaroni Company, Birmingham, Ala. Macaroni-paste. No. 85,899; Mar. 26; Gaz. vol. 176; p. 1066.
Birmingham Paper Co., Birmingham, Ala. Certain named stationery. No. 87,593; July 30; Gaz. vol. 180; p. 1387.
Birrell Vacuum Vibrator Company, Seattle, Wash. Massage apparatus, &c. No. 89,219; Dec. 3; Gaz. vol. 185; p. 243.
Bishop-Babcock-Becker Company, The, Cleveland, Ohio. Metallic valves. No. 89,617; Dec. 31; Gaz. vol. 185; p. 1373.
Bishop & Company, Los Angeles, Cal. Crackers. No. 87,594; July 30; Gaz. vol. 180; p. 1387.
Bishop & Company, Los Angeles, Cal. Candy figs. No. 88,833; Oct. 29; Gaz. vol. 183; p. 1301.
Bissell Carpet Sweeper Company, Grand Rapids, Mich. Portable carpet-cleaning machines. No. 87,595; July 30; Gaz. vol. 180; p. 1387.
Blackinton & Co., R., North Attleboro, Mass. Certain jewelry and precious-metal ware. No. 87,408; July 16; Gaz. vol. 180; p. 873.
Blackstone Mfg. Company, Providence, R. I. Cotton piece goods. No. 86,028; Apr. 9; Gaz. vol. 177; p. 519.
Blanc & fils, St. Etienne, France. Ribbons for linen articles. No. 88,997; Nov. 5; Gaz. vol. 184; p. 281.
Bland, Thomas, Waterbury, Conn. Veterinary bailing and powder gun. No. 84,720; Jan. 2; Gaz. vol. 174; p. 283.
Blandin, Sherman W., Racine, Wis. Metal carbon-remover. No. 87,149; July 2; Gaz. vol. 180; p. 315.
Blanke-Wenneker Candy Co., St. Louis, Mo. Candy. No. 88,834; Oct. 29; Gaz. vol. 183; p. 1301.
Blattay Company, The, Philadelphia, Pa. Leaves of rubus for diarrhea. No. 87,518; July 23; Gaz. vol. 180; p. 1133.
Blaufuss, John, Riverside, N. J. Syrups for beverages. No. 88,158; Sept. 3; Gaz. vol. 182; p. 243.
Bleecher, Rutger, New York, N. Y. Blended coffee. No. 85,063; Jan. 30; Gaz. vol. 174; p. 1211.
Blish Milling Company, The, Seymour, Ind. Self-rising flour. No. 87,596; July 30; Gaz. vol. 180; p. 1387.
Blish Milling Company, The, Seymour, Ind. Wheat-flour. No. 88,396; Sept. 17; Gaz. vol. 182; p. 717.
Bliss Cook Oak Company, Blissville, Ark. Wooden flooring. No. 85,319; Feb. 13; Gaz. vol. 175; p. 537.
Bloch, Bert K., New York, N. Y. Whisky. No. 87,418; July 16; Gaz. vol. 180; p. 873.
Bloch & Company, Abe, Cincinnati, Ohio. Men's outer suits. No. 86,510; May 14; Gaz. vol. 178; p. 587.
Bloch, Friedrich, Berlin, Germany. Disinfectants. No. 89,334; Dec. 10; Gaz. vol. 185; p. 519.
Bloch, Moses L., Philadelphia, Pa. Go-carts and baby-carriages. No. 86,511; May 14; Gaz. vol. 178; p. 587.
Blodgett, Ordway & Webber, Boston, Mass. Toweling. No. 84,721; Jan. 2; Gaz. vol. 174; p. 283.
Blodgett, Ordway & Webber, Boston, Mass. Toweling. No. 85,033; Jan. 23; Gaz. vol. 174; p. 1023.
Bloom & Millman, New York, N. Y. Dress and shirt waists. No. 86,877; June 11; Gaz. vol. 179; p. 567.
Blu-Meyers, Heinrich, Los Angeles, Cal. Remedy for infectious diseases. No. 88,464; Sept. 24; Gaz. vol. 182; p. 965.
Bluff City Grocer Co., Poplar Bluff, Mo. Certain foods. No. 87,150; July 2; Gaz. vol. 180; p. 315.
Bluff City Manufacturing Co., Memphis, Tenn. Carbonated beverage. No. 88,159; Sept. 3; Gaz. vol. 182; p. 243.
Bluffton Chemical Company, The, Bluffton, Ind. Medicinal preparation. No. 85,064; Jan. 30; Gaz. vol. 174; p. 1211.
Blum Shoe Mfg. Co., Dansville, N. Y. House-slippers. No. 86,693; May 28; Gaz. vol. 178; p. 1147.
Bockar, John J., New York, N. Y. Remedy for diseases of the stomach, &c. No. 88,661; Oct. 15; Gaz. vol. 183; p. 777.
Boehringer, Albert, Nieder-Ingelheim, Germany. Baking-powder. No. 89,335; Dec. 10; Gaz. vol. 185; p. 519.
Boehringer & Soehne, C. F., Mannheim-Waldhof, Germany. Derivatives of salicylic acid. No. 85,549; Feb. 27; Gaz. vol. 175; p. 1093.
Bon Ami Company, New York, N. Y. Scouring-soap. No. 88,548; Oct. 1; Gaz. vol. 183; p. 213.
Bond Foundry & Machine Company, Manheim, Pa. Shaft-collars. No. 87,721; Aug. 6; Gaz. vol. 181; p. 259.
Bonnell Manufacturing Co., The, Cleveland, Ohio. Electrical junction-box. No. 88,160; Sept. 3; Gaz. vol. 182; p. 243.
Bonwit, Teller & Co., New York, N. Y. Handkerchiefs, vestings, veilings, silk piece goods, &c. No. 87,519; July 23; Gaz. vol. 180; p. 1133.
Bonwit, Teller & Co., New York, N. Y. Certain named fancy goods. No. 87,722; Aug. 6; Gaz. vol. 181; p. 259.
Bonwit, Teller & Co., New York, N. Y. Certain clothing. No. 87,844; Aug. 13; Gaz. vol. 181; p. 535.
Booth, Thomas C., New York, N. Y. Face-creams. No. 85,701; Mar. 5; Gaz. vol. 176; p. 270.
Bordeaux Chemical Works, New York, N. Y. Facial creams, rouge, &c. No. 88,835; Oct. 29; Gaz. vol. 183; p. 1301.
Borel et Grange, Annecy, France. Buttons. No. 89,336; Dec. 10; Gaz. vol. 185; p. 519.
Borrelli & Vitelli, New York, N. Y. Certain kinds of coral jewelry. No. 85,645; Mar. 5; Gaz. vol. 176; p. 269.
Bosch & Co., Badalona, near Barcelona, Spain. Anisettes. No. 86,271; Apr. 30; Gaz. vol. 177; p. 1291.
Boss Manufacturing Co., The, Kewanee, Ill. Gloves and mittens. No. 87,598; July 30; Gaz. vol. 180; p. 1387.
Boss Manufacturing Company, The, Kewanee, Ill. Gloves and mittens. No. 87,151; July 2; Gaz. vol. 180; p. 315.
Boston Food Products Company, East Boston, Mass. Cod-fish-balls. No. 88,162; Sept. 3; Gaz. vol. 182; p. 243.
Boston Gore and Web Manufacturing Company, Boston, Mass. Elastic webbing. No. 84,931; Jan. 16; Gaz. vol. 174; p. 823.
Boston Gore and Web Manufacturing Company, Boston, Mass. Elastic webbing. No. 85,225; Feb. 6; Gaz. vol. 175; p. 259.
Boston Manufacturing Co. 1901, The, Waltham and Boston, Mass. Ginghams. No. 87,723; Aug. 6; Gaz. vol. 181; p. 259.
Boston Molasses Co., Boston, Mass. Molasses No. 87,036; June 25; Gaz. vol. 179; p. 1101.
Boston Molasses Co., Boston, Mass. Molasses. No. 87,599; July 30; Gaz. vol. 180; p. 1387.
Boston Rubber Shoe Company, Boston, Mass. Rubber boots and shoes. Nos. 86,778–9; June 4; Gaz. vol. 179; p. 281.
Boston Rubber Shoe Company, Boston, Mass. Rubber boots and shoes. No. 87,037; June 25; Gaz. vol. 179; p. 1101.
Bounce M'f'g Company, Philadelphia, Pa. Certain game. No. 85,552; Feb. 27; Gaz. vol. 175; p. 1093.

Alphabetical list of registrants of trade-marks—Continued.

Bourland, James C., Houston, Tex. Medicated-salt blocks for stock. No. 89,220; Dec. 3; Gaz. vol. 185; p. 243.
Bovio Bros. & D. Donne, New York, N. Y. Ladies' hats. No. 88,235; Sept. 10; Gaz. vol. 182; p. 503.
Bowen, Charles E., Alameda, Cal. Fly-traps. No. 85,320; Feb. 13; Gaz. vol. 175; p. 537.
Bowers Rubber Works, San Francisco, Cal. Rubber hose, packing, belts, and non-metallic tires. No. 86,124; Apr. 16; Gaz. vol. 177; p. 765.
Bowersock, Justin D., Lawrence, Kans. Wrapping-paper and box-board. No. 88,836; Oct. 29; Gaz. vol. 183; p. 1301.
Bowker Chemical Company, New York, N. Y. Fertilizers. No. 88,662; Oct. 15; Gaz. vol. 183; p. 777.
Bowker Fertilizer Company, New York, N. Y. Fertilizers. No. 86,496; May 7; Gaz. vol. 178; p. 317.
Boyd, Chas. R., Sacramento, Cal. Certain pharmaceutical preparation. No. 86,126; Apr. 16; Gaz. vol. 177; p. 765.
Boyd, John, Houston, Tex. Remedy for certain diseases. No. 86,125; Apr. 16; Gaz. vol. 177; p. 765.
Boyd Medicine Co., Detroit, Mich. Remedy for rheumatism. No. 85,843; Mar. 26; Gaz. vol. 176; p. 1065.
Boyd & Sons, George, Camden, N. J. Tablie-syrups. No. 87,845; Aug. 13; Gaz. vol. 181; p. 535.
Boynton Ideal Liniment Co., The, Bangor, Me. Liniment. No. 87,315; July 9; Gaz. vol. 180; p. 597.
Brackett, Frederick, Washington, D. C. Lotion for skin diseases. No. 86,375; May 7; Gaz. vol. 178; p. 313.
Brady, Hugh J., Orange, N. J. Photographic papers, cameras, and parts therefor. No. 88,163; Sept. 3; Gaz. vol. 182; p. 243.
Brainerd, Erastus, Richmond Beach, Wash. Paper food-containers. No. 86,272; Apr. 30; Gaz. vol. 177; p. 1291.
Brainerd, Lura S., Meriden, Conn. Patterns for wearing-apparel. No. 87,152; July 2; Gaz. vol. 180; p. 315.
Brambach Piano Company, New York, N. Y. Pianos. No. 89,438; Dec. 17; Gaz. vol. 185; p. 823.
Brampton Brothers Limited, Birmingham, England. Nuts and bolts, metal washers, and driving-chains. No. 88,730; Oct. 22; Gaz. vol. 183; p. 1027.
Brandenberger, Jaques E., Thaon-les-Vosges, France. Dry-plates and paper for photographic and kinematographic use. No. 85,941; Apr. 2; Gaz. vol. 177; p. 235.
Branicki, Joseph W., Newark, N. J. Foot-powder. No. 88,663; Oct. 15; Gaz. vol. 183; p. 777.
Brass Goods M'f'g Co., Brooklyn, N. Y. Water-filters. No. 84,722; Jan. 2; Gaz. vol. 174; p. 283.
Brass Goods M'f'g Co., New York, N. Y. Granular filtering material composed of quartz and charcoal. No. 89,618; Dec. 31; Gaz. vol. 185; p. 1373.
Brazier Brothers Company, Helena, Mont. Candies. No. 88,236; Sept. 10; Gaz. vol. 182; p. 503.
Brennig, Aimée C., New York, N. Y. Cigarettes. No. 84,723; Jan. 2; Gaz. vol. 174; p. 283.
Brewer & Co., Worcester, Mass. Cough-lozenges. No. 88,054; Aug. 27; Gaz. vol. 181: p. 1067.
Brewster & Magner, New Orleans, La. Salve. No. 86,376; May 7; Gaz. vol. 178; p. 313.
Breyer Ice Cream Co., Philadelphia, Pa. Ice-cream. No. 86,676; May 21; Gaz. vol. 178; p. 882.
Bristol Drug & Gum Corporation, Bristol, Tenn. Flavoring extracts and imitation flavors. No. 87,846; Aug. 13; Gaz. vol. 181; p. 535.
Brodbeck, John J., New York, N. Y. Headache remedy. No. 86,780; June 4; Gaz. vol. 179; p. 281.
Brogon Mills, Anderson, S. C. Cotton dometts and flannels. No. 84,932; Jan. 16; Gaz. vol. 174; p. 823.
Brooks Rupture Appliance Co., Marshall, Mich. Rupture appliances. No. 89,337; Dec. 10; Gaz. vol. 185; p. 519.
Broude and Taylor, New York, N. Y. Suppositories. No. 88,838; Oct. 29; Gaz. vol. 183; p. 1301.
Brower, John H., New York, N. Y. Wheat-flour. No. 86,677; May 21; Gaz. vol. 178; p. 882.
Brown, Albert E., Mobile, Ala. Remedy for malaria. No. 84,724; Jan. 2; Gaz. vol. 174; p. 283.
Brown and Bishop, Bay City, Mich. Sunbonnets. No. 85,067; Jan. 30; Gaz. vol. 174; p. 1211.
Brown Bros., Baltimore, Md. Remedy for certain diseases. No. 86,781; June 4; Gaz. vol. 179; p. 281.
Brown & Co., Charles E., Springfield, Mass. Coffee. No. 88,999; Nov. 5; Gaz. vol. 184; p. 281.
Brown & Company, P. F., Philadelphia, Pa. Butter. No. 89,000; Nov. 5; Gaz. vol. 184; p. 281.
Brown, Dexter Co., Boston, Mass. Finished goatskins. No. 87,420; July 16; Gaz. vol. 180; p. 873.
Brown, Edward, Omaha, Nebr. Metal-polish. No. 86,127; Apr. 16; Gaz. vol. 177; p. 765.
Brown Manufacturing Co., Greeneville, Tenn. Remedy for dyspepsia. No. 88,549; Oct. 1; Gaz. vol. 183; p. 213.
Brown Shoe Company, The, St. Louis, Mo. Women's shoes. No. 87,038; June 25; Gaz. vol. 179; p. 1101.
Brown & Sons, Thos. E., Philadelphia, Pa. Hosiery. No. 85,553; Feb. 27; Gaz. vol. 175; p. 1093.
Brown, Summers, London, England. Games. No. 86,678; May 21; Gaz. vol. 178; p. 882.
Brubaker, Oram D., Bird in Hand, Pa. Cream-pudding. No. 88,237; Sept. 10; Gaz. vol. 182; p. 503.
Buck, George E., Palmer and Worcester, Mass. Certain named oils and greases. No. 88,238; Sept. 10; Gaz. vol. 182; p. 503.
Brun, Bernard L., Baltimore, Md. Hair-tonic and pomatum. No. 86,377; May 7; Gaz. vol. 178; p. 313.
Bryant Box Company, Westfield, Mass. Lunch-boxes. No. 85,793; Mar. 19; Gaz. vol. 176; p. 745.
Bryant, Gore & Bowman Sales Co., St. Louis, Mo. Brushes. No. 87,153; July 2; Gaz. vol. 180; p. 315.
Bryant, Gore & Bowman Sales Co., St. Louis, Mo. Fountain-pens, pen-points, penholders, chalk, &c. No. 87,154; July 2; Gaz. vol. 180; p. 315.
Buchstahl & Lewis, New York, N. Y. Hats and caps. No. 86,378; May 7; Gaz. vol. 178; p. 313.
Budd, G. M., Homestead, Fla. Remedy for diseases of the feet and a deodorizer. No. 86,031; Apr. 9; Gaz. vol. 177; p. 519.
Budd, Harry, Independence, Kans. Washing-machines. No. 85,942; Apr. 2; Gaz. vol. 177; p. 235.
Buffalo Gasolene Motor Co., Buffalo, N. Y. Explosion-engines. No. 87,973; Aug. 20; Gaz. vol. 181; p. 815.
Buffalo Oil Paint & Varnish Company, Buffalo, N. Y. Paints and painters' materials. No. 87,155; July 2; Gaz. vol. 180; p. 315.
Buffalo Steam Roller Company, Buffalo, N. Y. Self-propelling rollers for use on streets, roads, &c. No. 89,222; Dec. 3; Gaz. vol. 185; p. 243.
Buhach Producing and Manufacturing Company, Stockton, Cal. Insect-powder. No. 88,055; Aug. 27; Gaz. vol. 181; p. 1067.
Bullard Machine Tool Co., The, Bridgeport, Conn. Boring-mills and lathes. No. 87,156; July 2; Gaz. vol. 180; p. 315.
Burckhardt Company, Cincinnati, Ohio. Soap. No. 85,409; Feb. 20; Gaz. vol. 175; p. 837.
Burckhardt Company, The, Cincinnati, Ohio. Scouring-powder. No. 85,554; Feb. 27; Gaz. vol. 175; p. 1093.
Burdwise, Aaron, Baltimore, Md. Medicinal preparation for stomach troubles. No. 86,379; May 7; Gaz. vol. 178; p. 313.
Bürger, Johannes, Wernigerode-on-the-Harz, Germany. Cardiac medicaments. No. 84,933; Jan. 16; Gaz. vol. 174; p. 823.
Burgess-Norton Mfg. Company, Geneva, Ill. Hatchets. No. 87,847; Aug. 13; Gaz. vol. 181; p. 535.
Burgess Sulphite Fibre Company, Berlin, N. H. Caustic soda. No. 84,725; Jan. 2; Gaz. vol. 174; p. 283.
Burgmann, Feodor, Dresden-Laubegast, Germany, and New York, N. Y. Asbestos machinery packing. No. 86,694; May 28; Gaz. vol. 178; p. 1147.
Burk, Fried & Company, Baltimore, Md. Men's clothes. No. 84,898; Jan. 9; Gaz. vol. 174; p. 582.
Burk, Louis, Philadelphia, Pa. Minced pork. No. 86,275; Apr. 30; Gaz. vol. 177; p. 1291.
Burke & James, Chicago, Ill., assignors to Burke & James, Inc. Certain chemicals. No. 85,702; Mar. 5; Gaz. vol. 176; p. 271.
Burke & James, assignors to Burke & James, Inc., Chicago, Ill. Certain chemical preparations. No. 86,205; Apr. 23; Gaz. vol. 177; p. 1039.
Burke & James, Chicago, Ill., assignors to Burke & James, Inc. Certain chemicals. No. 87,157; July 2; Gaz. vol. 180; p. 315.
Burko Grease Co., Philadelphia, Pa. Lubricating-grease. No. 85,943; Apr. 2; Gaz. vol. 177; p. 235.
Burmont Specialty Company, Fernwood, Pa. Hand-torpedoes. No. 87,421; July 16; Gaz. vol. 180; p. 874.
Burnam, James F., Huntsville, Ala. Remedy for chills and malaria and as a general tonic. No. 88,550; Oct. 1; Gaz. vol. 183; p. 213.
Burnham-Munger Mfg. Co., The, Kansas City, Mo. Sleeping-garments. No. 85,555; Feb. 27; Gaz. vol. 175; p. 1093.
Burns, Edward J., Chicago, Ill. Gas-pressure regulators. No. 86,571; May 21; Gaz. vol. 178; p. 879.
Burns and Reed, New York, N. Y. Baking-powder. No. 89,093; Nov. 12; Gaz. vol. 184; p. 545.
Burrell & Company, D. H., Little Falls, N. Y. Bottle-washers, milk-pumps, cream ripeners and separators. No. 87,158; July 2; Gaz. vol. 180; p. 315.
Burrell & Company, D. H., Little Falls, N. Y. Milk check-pumps. No. 87,159; July 2; Gaz. vol. 180; p. 315.
Burress, Zera L., Anderson, S. C. Remedies for cattle. No. 85,703; Mar. 5; Gaz. vol. 176; p. 271.
Burrton Milling Company, The, Burrton, Kans. Wheat-flour and cornmeal. No. 85,944; Apr. 2; Gaz. vol. 177; p. 235.
Burton, John G., Hopewell, N. J. Bottled drinking-water. No. 86,206; Apr. 23; Gaz. vol. 177; p. 1039.
Bush-Scott Company, Detroit, Mich. Fire-extinguishers. No. 87,161; July 2; Gaz. vol. 180; p. 315.
Buyer, Samuel, New York, N. Y. Hose-supporters, arm-bands, dress-shields, &c. No. 87,727; Aug. 6; Gaz. vol. 181; p. 259.
Buyer, Samuel, New York, N. Y. Hose-supporters. No. 88,056; Aug. 27; Gaz. vol. 181; p. 1067.
Byron Weston Company, Dalton, Mass. Writing-paper. No. 86,276; Apr. 30; Gaz. vol. 177; p. 1291.

Alphabetical list of registrants of trade-marks—Continued.

C. Conradty (Inhaber Pauline & Eugen Conradty) Fabrik elektrischer u. galvanischer Kohlen, Nuremberg, Germany. Certain electrical apparatus. No. 85,228; Feb. 6; Gaz. vol. 175; p. 259.
C. Kenyon Co., Brooklyn, N. Y. Hats and shoes. No. 87,220; July 2; Gaz. vol. 180; p. 317.
C. Kurtzmann & Company, Buffalo, N. Y. Pianos. No. 88,311; Sept. 10; Gaz. vol. 182; p. 505.
C. A. Briggs Co., Portland, Me., and Boston, Mass. Candy lozenges. No. 85,066; Jan. 30; Gaz. vol. 174; p. 1211.
C. A. Colman Co., New York, N. Y. Cotton and silk and cotton piece goods. No. 87,523; July 23; Gaz. vol. 180; p. 1133.
C. A. Edgarton Mfg. Co., Shirley, Mass. Suspenders and garters. No. 85,334; Feb. 13; Gaz. vol. 175; p. 537.
C. A. Spencer & Son Company, Boston, Mass. Tanning and dyeing extracts. No. 85,383; Feb. 13; Gaz. vol. 175; p. 539.
C. B. Henschel Mfg. Co., Milwaukee, Wis. Cigar-box labels. No. 87,338; July 9; Gaz. vol. 180; p. 598.
C. B. Woodworth Sons Co., The, Rochester, N. Y. Perfumes, toilet waters, powder, and creams. No. 87,580; July 23; Gaz. vol. 180; p. 1135.
C. D. Warner Co., Coldwater, Mich. Liniment and a remedy for certain named diseases. No. 89,169; Nov. 12; Gaz. vol. 184; p. 547.
C. F. Mueller Co., Jersey City, N. J. Egg-noodles. No. 85,157; Jan. 30; Gaz. vol. 174; p. 1214.
C. F. Simmons Medicine Company, Incorporated, St. Louis, Mo. Certain medicinal preparations. No. 86,465; May 7; Gaz. vol. 178; p. 316.
C. F. Sweet, Inc., Hartford, Conn. Lubricating oils and greases. No. 85,516; Feb. 20; Gaz. vol. 175; p. 840.
C. I. Hood Co., Lowell, Mass. Tonic for the stomach. No 88,294; Sept. 10; Gaz. vol. 182; p. 505.
C. L. Sheppard Sanitorium and Remedy Co., Findlay, Ohio. Certain medicines. No. 86,463; May 7; Gaz. vol. 178; p. 316.
C. M. Grey Mfg. Co., East Orange, N. J. Die-castings. No. 85,964; Apr. 2; Gaz. vol. 177; p. 236.
C. M. McClung & Co., Knoxville, Tenn. Pistols, revolvers, shotguns, and rifles. Nos. 86,425–6; May 7; Gaz. vol. 178; p. 315.
C. M. McClung & Co., Knoxville, Tenn. Asphalt and composition roofing. No. 86,427; May 7; Gaz. vol. 178; p. 315.
C. M. McClung & Co., Knoxville, Tenn. Brooms and certain brushes. No. 86,721; May 28; Gaz. vol. 178; p. 1148.
C. M. McClung & Co., Knoxville, Tenn. Hardware and plumbing and steam-fitting supplies. No. 86,722; May 28; Gaz. vol. 178; p. 1148.
C. M. McClung & Co., Knoxville, Tenn. Games, toys, and sporting goods. Nos. 87,228–9; July 2; Gaz. vol. 180; p. 317.
C. M. McClung & Co., Knoxville, Tenn. Certain named cutlery, machinery, and tools. No. 87,645; July 30; Gaz. vol. 180; p. 1389.
C. M. McClung & Co., Knoxville, Tenn. Certain machinery and tools and parts thereof. No. 87,646; July 30; Gaz. vol. 180; p. 1389.
C. M. McClung & Co., Knoxville, Tenn. Stoves, ranges, blowers, forges, &c. Nos. 87,901–2; Aug. 13; Gaz. vol. 181; pp. 536–7.
C. M. McClung & Co., Knoxville, Tenn. Stoves, ranges, blowers, forges, and lanterns. No. 88,104; Aug. 27; Gaz. vol. 181; p. 1068.
C. M. McClung & Co., Knoxville, Tenn. Axes, hammers, shears, gasolene-engines, &c. No. 88,193; Sept. 3; Gaz. vol. 182; p. 244.
C. M. McClung & Co., Knoxville, Tenn. Certain hardware and plumbing supplies. No. 88,331; Sept. 10; Gaz. vol. 182; p. 506.
C. M. McClung & Co., Knoxville, Tenn. Certain named sporting goods and toys. No. 88,508; Sept. 24; Gaz. vol. 182; p. 967.
Cabell Company, The, Baltimore, Md. Egg-white preparation. No. 88,839; Oct. 29; Gaz. vol. 183; p. 1301.
Cable & Sons, New York, N. Y. Pianos and player-pianos. No. 85,646; Mar. 5; Gaz. vol. 176; p. 269.
Cabler, William P., Fort Wayne, Ind. Remedy for the stomach, liver, kidneys, bowels, and blood. No. 87,162; July 2; Gaz. vol. 180; p. 315.
Cadorette Bros. & Co., Lawrence, Mass. Javelle water. No. 85,068; Jan. 30; Gaz. vol. 174; p. 1211.
Caementium Sales Co., Boston, Mass. Adhesive cement. No. 86,782; June 4; Gaz. vol. 179; p. 281.
Cahill Shoe Co., The, Cincinnati, Ohio. Shoes, boots, and sandals. No. 85,410; Feb. 20; Gaz. vol. 175; p. 837.
California Canneries Co., San Francisco, Cal. Canned fruits and vegetables. No. 87,848; Aug. 13; Gaz. vol. 181; p. 535.
California Central Creameries, San Francisco, Cal. Eggs. No. 88,840; Oct. 29; Gaz. vol. 183; p. 1301.
California Fruit Canners Association, San Francisco, Cal. Canned fruits and vegetables. No. 84,813; Jan. 9; Gaz. vol. 174; p. 579.
California Fruit Growers Exchange, Los Angeles, Cal. Lemons. No. 85,069; Jan. 30; Gaz. vol. 174; p. 1211.
California Medicinal Springs Co., Deer Lick Springs, Cal. Natural medicinal water. No. 89,440; Dec. 17; Gaz. vol. 185; p. 823.
California Wine Association, San Francisco, Cal. Wines. No. 85,844; Mar. 26; Gaz. vol. 176; p. 1065.
California Wine Association, San Francisco, Cal. Wine. No. 86,032; Apr. 9; Gaz. vol. 177; p. 519.
Calmon Asbestos & Rubber Works of America, New York, N. Y. Asbestos packing. No. 88,239; Sept. 10; Gaz. vol. 182; p. 503.
Cambrunnen Table Water Company, London, England. Mineral and aerated waters. No. 86,977; June 18; Gaz. vol. 179; p. 847.
Cameo Manufacturing Company, Worcester, Mass. Almond, complexion, and deodorizing cream and foot-powder. No. 85,322; Feb. 13; Gaz. vol. 175; p. 537.
Cammeyer, New York, N. Y. Preparations for cleaning white goods. No. 87,849; Aug. 13; Gaz. vol. 181; p. 535.
Cammeyer, New York, N. Y. Preparations for cleaning all sorts of white goods. No. 88,057; Aug. 27; Gaz. vol. 181; p. 1067.
Camp Chocolate Co., McKeesport, Pa. Sweetened popcorn. No. 85,728; Mar. 12; Gaz. vol. 176; p. 521.
Campbell, Charles W., Lancaster, Pa. Certain non-alcoholic beverages. No. 86,277; Apr. 30; Gaz. vol. 177; p. 1291.
Campbell Company, Inc., The, Boston, Mass. Cooking-oil. No. 88,731; Oct. 22; Gaz. vol. 183; p. 1027.
Campbell, Horace W., Columbus, Ohio. Laundry washing-machines. No. 87,850; Aug. 13; Gaz. vol. 181; p. 535.
Campbell, William H., Baltimore, Md. Insecticide, germicide, and disinfectant. No. 89,619; Dec. 31; Gaz. vol. 185; p. 1373.
Canfield Rubber Company, The, Bridgeport, Conn. Waterproof sheets and sheeting. No. 85,556; Feb. 27; Gaz. vol. 175; p. 1093.
Cannon, J. Randolph, Norfolk, Va. Remedy for rheumatism. No. 86,783; June 4; Gaz. vol. 179; p. 281.
Canoe Pass Packing Company, Portland, Oreg. Canned salmon. Nos. 89,003–6; Nov. 5; Gaz. vol. 184; p. 281.
Canton Culvert Company, The, Canton, Ohio. Nestable corrugated culverts. No. 88,240; Sept. 10; Gaz. vol. 182; p. 503.
Canvas Decoy Co., Union City, Tenn. Waterproof fabrics. No. 84,934; Jan. 16; Gaz. vol. 174; p. 823.
Capitol City Chair Co., Atlanta, Ga. Davenport-beds. No. 87,521; July 23; Gaz. vol. 180; p. 1133.
Capmetone Chemical Co., Suffolk, Va. Remedies for certain ailments. No. 85,794; Mar. 19; Gaz. vol. 176; p. 745.
Carbo-Sol Co., The, St. Louis, Mo. Preparation for cleaning engines, &c. No. 89,094; Nov. 12; Gaz. vol. 184; p. 545.
Carbon Products Company, Charleston, W. Va. Stove, shoe, and metal polishes. No. 86,512; May 14; Gaz. vol. 178; p. 587.
Carbon Products Company, Charleston, W. Va. Polishes. No. 86,695; May 28; Gaz. vol. 178; p. 1147.
Cardinal Varnish Cleaner Company, The, Akron, Ohio. Varnish-cleaners. No. 86,033; Apr. 9; Gaz. vol. 177; p. 519.
Cargill Elevator Co., Minneapolis, Minn. Certain raw or partly-prepared materials. No. 87,422; July 16; Gaz. vol. 180; p. 874.
Carl Lindstrom Aktien Gesellschaft, Berlin, Germany. Talking-machines, disks, records, &c. No. 85,822; Mar. 19; Gaz. vol. 176; p. 746.
Carlisle Crocker & Co., Montevideo, Uruguay. Certain piece goods, carpets, and rugs. No. 87,039; June 25; Gaz. vol. 179; p. 1101.
Carlisle Packing Co., Seattle, Wash. Canned salmon. Nos. 89,620–2; Dec. 31; Gaz. vol. 185; p. 1373.
Carlyle Milling Company, Carlyle, Ill. Wheat-flour. No. 86,034; Apr. 9; Gaz. vol. 177; p. 519.
Carondelet Packing Company, St. Louis, Mo. Hams, bacon, and lard. No. 85,070; Jan. 30; Gaz. vol. 174; p. 1211.
Carpenter, Frank, *et al.*, trustees. (See Amoskeag Manufacturing Company, assignor.)
Carr & Co., M. W., Somerville, Mass. Photograph-frames. No. 86,381; May 7; Gaz. vol. 178; p. 314.
Carr & Co., M. W., Somerville, Mass. Certain named toilet articles made principally of celluloid. No. 89,175; Nov. 19; Gaz. vol. 184; p. 799.
Carroll, William H., New York, N. Y. Certain named articles made of any precious metal. No. 89,007; Nov. 5; Gaz. vol. 184; p. 281.
Carruthers Jones Shoe Co., Memphis, Tenn. Leather shoes, slippers, and sandals. No. 88,841; Oct. 29; Gaz. vol. 183; p. 1301.
Carson, Pirie, Scott & Co., Chicago, Ill. Table-cloths, napkins, &c. No. 85,411; Feb. 20; Gaz. vol. 175; p. 837.
Carson, Pirie, Scott & Co., Chicago, Ill. Ribbons. No. 85,412; Feb. 20; Gaz. vol. 175; p. 837.
Carson, Pirie, Scott & Co., Chicago, Ill. Ribbons. No. 87,522; July 23; Gaz. vol. 180; p. 1133.
Carson, Pirie, Scott & Co., Chicago, Ill. Handkerchiefs. No. 88,732; Oct. 22; Gaz. vol. 183; p. 1027.
Carson, Pirie, Scott & Co., Chicago, Ill. Carpets and rugs. No. 89,533; Dec. 24; Gaz. vol. 185; p. 1049.

Alphabetical list of registrants of trade-marks—Continued.

Carstens Packing Company, Tacoma and Seattle, Wash. Hams, bacon, and lard. No. 88,842; Oct. 29; Gaz. vol. 183; p. 1301.
Carter, Charles, New Brunswick, N. J. Blood-purifier and a remedy for certain diseases. No. 88,551; Oct. 1; Gaz. vol. 183; p. 213.
Carter & Holmes, Chicago, Ill. Handkerchiefs. No. 85,945; Apr. 2; Gaz. vol. 177; p. 235.
Carter, Webster & Co., Baltimore, Md. Hosiery. No. 84,935; Jan. 16; Gaz. vol. 174; p. 823.
Cash, Laurence E., New York, N. Y., and Chicago, Ill. Antiseptics and germicides. No. 88,664; Oct. 15; Gaz. vol. 183; p. 777.
Castiglioni Company, Providence, R. I. Bracelets and lockets. No. 87,600; July 30; Gaz. vol. 180; p. 1387.
Castle, Harvard D., Manati, Porto Rico. Fresh citrus fruits and pineapples. No. 89,001; Nov. 5; Gaz. vol. 184; p. 281.
Cavallaro-Ferrara, Salvatore, Baltimore, Md. Medicinal powder used as a remedy for headaches and indigestion. No. 89,422; Dec. 10; Gaz. vol. 185; p. 522.
Cayey-Caguas Tobacco Company, New York, N. Y. Cigars, cheroots, and cigarettes. No. 85,900; Mar. 26; Gaz. vol. 176; p. 1066.
Cayey-Caguas Tobacco Company, New York, N. Y. Cigars, cheroots, and cigarettes. No. 86,278; Apr. 30; Gaz. vol. 177; p. 1291.
Cedar-Sweep Company, The, Los Angeles, Cal. Sweeping compound. No. 89,534; Dec. 24; Gaz. vol. 185; p. 1049.
"Celrox" Ltd., London, England. Medicated wine. No. 85,795; Mar. 19; Gaz. vol. 176; p. 745.
Centennial Mill Co., Spokane and Seattle, Wash. Wheat-flour. No. 88,397; Sept. 17; Gaz. vol. 182; p. 717.
Centerville Brewing Company, Cleveland, Wis. Beer. No. 84,936; Jan. 16; Gaz. vol. 174; p. 823.
Central California Canneries, San Francisco, Cal. Canned fruits. No. 85,071; Jan. 30; Gaz. vol. 174; p. 1211.
Central California Canneries, San Francisco, Cal. Canned fruits. No. 85,647; Mar. 5; Gaz. vol. 176; p. 269.
Central California Canneries, San Francisco, Cal. Canned fruits. No. 85,729; Mar. 12; Gaz. vol. 176; p. 521.
Central Commercial Co., Chicago, Ill. Asphalt. No. 85,324; Feb. 13; Gaz. vol. 175; p. 537.
Central Drug Co., Detroit, Mich. Lotions for chapped hands or lips, &c. No. 88,614; Oct. 8; Gaz. vol. 183; p. 499.
Centralene Oil Company, Galesburg, Ill. Oils, greases, and waxes. No. 88,059; Aug. 27; Gaz. vol. 181; p. 1067.
Centrifugal Power Wheel Company, Decatur, Ill. Wheels. No. 88,843; Oct. 29; Gaz. vol. 183; p. 1301.
Century Shoe Co., Ltd., Macungie, Pa. Boots and shoes. No. 85,796; Mar. 19; Gaz. vol. 176; p. 745.
Chaddock-Kurz Reversible Glove Co., The, Cleveland, Ohio. Mittens and gloves. No. 86,572; May 21; Gaz. vol. 178; p. 879.
Chalfant Bros. Inc., Philadelphia, Pa. Coal. No. 89,535; Dec. 24; Gaz. vol. 185; p. 1049.
Challenge Manufacturing Co., The, Seneca, Ill. Wagon-dump stops and brakes. No. 88,060; Aug. 27; Gaz. vol. 181; p. 1067.
Challoner Company, Oshkosh, Wis. Horseshoe-calks. No. 88,467; Sept. 24; Gaz. vol. 182; p. 965.
Chaloner, John A., Cobham, Va. Quarterly newspaper. No. 84,814; Jan. 9; Gaz. vol. 174; p. 579.
Chamberlain & Schroeder, Grand Rapids, Mich. Gas-hose attachments. No. 87,974; Aug. 20; Gaz. vol. 181; p. 815.
Chamberlin Metal Weather Strip Co., Detroit, Mich. Weather-strips. No. 86,784; June 4; Gaz. vol. 179; p. 281.
Champion Hardware Company, The. (See Champion Safety Lock Company, assignor.)
Champion Ignition Company, Flint, Mich. Certain electrical apparatus. No. 85,073; Jan. 30; Gaz. vol. 174; p. 1211.
Champion Safety Lock Company, assignor to The Champion Hardware Company, Geneva, Ohio. Certain named hardware. No. 87,601; July 30; Gaz. vol. 180; p. 1387.
Champion Stove Co., The, Cleveland, Ohio. Certain named heaters and stoves. No. 88,552; Oct. 1; Gaz. vol. 183; p. 213.
Chandler Oil Cloth & Buckram Co., Taunton, and East Taunton, Mass. Oiled duck. No. 86,128; Apr. 16; Gaz. vol. 177; p. 765.
Channell Chemical Company, Chicago, Ill. Mops. No. 87,163; July 2; Gaz. vol. 180; p. 315.
Charbonnet, Peter G., New Orleans, La. Ointments and remedies for certain diseases. No. 85,705; Mar. 5; Gaz. vol. 176; p. 271.
Charles Hedden Incorporated, New York, N. Y. Perfumes, toilet waters, sachet, face, and talcum powder. No. 88,875; Oct. 29; Gaz. vol. 183; p. 1302.
Charles Smith Company, Chicago, Ill. Water-heaters. No. 89,383; Dec. 10; Gaz. vol. 185; p. 521.
Charrington, Fredk. N., London, England. Finger-rings. No. 86,785; June 4; Gaz. vol. 179; p. 281.
Charter Oak Citrus Assn., Charter Oak, Cal. Oranges and lemons. No. 84,937; Jan. 16; Gaz. vol. 174; p. 823.
Charter Oak Citrus Assn., Charter Oak, Cal. Oranges. No. 86,880; June 11; Gaz. vol. 179; p. 567.
Charter Oak Citrus Association, Charter Oak, Cal. Oranges. Nos. 87,423–4; July 16; Gaz. vol. 180; p. 874.
Chas. A. Stevens & Bros., Chicago, Ill. Corsets. No. 87,573; July 23; Gaz. vol. 180; p. 1134.
Chas. E. Perry Co., Boston, Mass. Paper in sheets, strips, and rolls. No. 88,022; Aug. 20; Gaz. vol. 181; p. 816.
Chas. W. Bauermeister Company, Terre Haute, Ind. Certain foods. No. 84,810; Jan. 9; Gaz. vol. 174; p. 579.
Chase & Company, Jacksonville, Fla. Oranges and grapefruit. No. 86,382; May 7; Gaz. vol. 178; p. 314.
Chase Dirt Company, Seattle, Wash. Washing compound. No. 87,425; July 16; Gaz. vol. 180; p. 874.
Chase & Neely, Bradford, Pa. Food-coloring. No. 85,074; Jan. 30; Gaz. vol. 174; p. 1211.
Chattanooga Medicine Co., Chattanooga, Tenn. Medicine for female diseases. No. 84,899; Jan. 9; Gaz. vol. 174; p. 582.
Chattanooga Medicine Co., Chattanooga, Tenn. Liver medicine. No. 84,900; Jan. 9; Gaz. vol. 174; p. 582.
Chattanooga Medicine Co., Chattanooga, Tenn. Liver medicine. No. 85,325; Feb. 13; Gaz. vol. 175; p. 537.
Check Game Company, The, Hiram, Ohio. Playing-cards. No. 88,241; Sept. 10; Gaz. vol. 182; p. 503.
Cheese-a-bit Company, Oswego, N. Y. Preparation for making Welsh rabbit. No. 89,225; Dec. 3; Gaz. vol. 185; p. 243.
Chemische Fabrik auf Actien (vorm. E. Schering), Berlin, Germany. Remedies for gout and rheumatism. No. 87,041; June 25; Gaz. vol. 179; p. 1101.
Chemische Fabrik auf Actien (vorm. E. Schering), Berlin, Germany. Remedies for gout and rheumatism. No. 87,317; July 9; Gaz. vol. 180; p. 597.
Chemische Fabrik auf Actien (vorm. E. Schering), Berlin, Germany. Purgatives. No. 88,242; Sept. 10; Gaz. vol. 182; p. 503.
Chemische Fabrik Bannewitz Orloff Hansen, Bannewitz, near Dresden, Germany. Certain chemicals. No. 87,164; July 2; Gaz. vol. 180; p. 316.
Chemische Fabrik Heidenau, Gesellschaft mit beschränkter Haftung, Heidenau, near Dresden, Germany. Non-inflammable mass of certain composition manufactured in specified forms. No. 89,536; Dec. 24; Gaz. vol. 185; p. 1049.
Chemische Fabrik Helfenberg A. G. vorm. Eugen Dieterich, Helfenberg, Germany. Tapeworm remedy. No. 86,035; Apr. 9; Gaz. vol. 177; p. 519.
Chemo-Craft Company, The, Cleveland, Ohio. Shaving-pastes. No. 89,441; Dec. 17; Gaz. vol. 185; p. 823.
Cherokee Fertilizer Co., Macon, Ga. Fertilizer. No. 87,165; July 2; Gaz. vol. 180; p. 316.
Cherry-Cheer Company, Inc., The, Sidney, Ohio. Non-alcoholic beverage. No. 86,279; Apr. 30; Gaz. vol. 177; p. 1291.
Chester Kent & Company, Jersey City, N. J., and Boston, Mass. Salve. No. 85,869; Mar. 26; Gaz. vol. 176; p. 1065.
Chevalier, Ada F., New York, N. Y. Candy. No. 88,398; Sept. 17; Gaz. vol. 182; p. 717.
Chicago Architects' Business Association, Chicago, Ill. Building-contract documents. No. 88,665; Oct. 15; Gaz. vol. 183; p. 777.
Chicago Consolidated Bottling Company, The, Chicago, Ill. Ginger-ale. No. 84,815; Jan. 9; Gaz. vol. 174; p. 579.
Chicago Consolidated Bottling Company, The, Chicago, Ill. Ginger-ale. No. 86,036; Apr. 9; Gaz. vol. 177; p. 519.
Chicago Feather Duster Co., Chicago, Ill. Dust-cloths. No. 85,413; Feb. 20; Gaz. vol. 175; p. 837.
Chicago Flexible Shaft Company, Chicago, Ill. Electric flat-irons. No. 89,623; Dec. 31; Gaz. vol. 185; p. 1374.
Chicago Polish Company, The, Chicago, Ill. Metal-polish. No. 85,946; Apr. 2; Gaz. vol. 177; p. 235.
Chicago Retort & Fire Brick Co., Chicago, Ill. Fire-brick. No. 84,816; Jan. 9; Gaz. vol. 174; p. 579.
Chicago Steel Railway Tie Company, Chicago, Ill. Railway-ties and rail-fastenings. No. 87,976; Aug. 20; Gaz. vol. 181; p. 815.
Chickering Brothers, Chicago, Ill. Pianos. No. 89,442; Dec. 17; Gaz. vol. 185; p. 823.
Childs, Charles A., New York, N. Y. White lead. No. 86,383; May 7; Gaz. vol. 178; p. 314.
Childs, Parr & Joseph, New York, N. Y. Cotton piece goods. No. 87,852; Aug. 13; Gaz. vol. 181; p. 535.
Chouquette, Michael D., Denison, Tex. Remedy for tuberculosis. No. 85,326; Feb. 13; Gaz. vol. 175; p. 537.
Christensen, Christian, Gayville, S. D. Remedy for foul and chilled broods among bees. No. 84,938; Jan. 16; Gaz. vol. 174; p. 823.
Christie-Collar Mfg. Co., Muskegon, Mich. Baking-powder. No. 86,786; June 4; Gaz. vol. 179; p. 281.
Christopher, L. J., Los Angeles, Cal. Candies. No. 88,844; Oct. 29; Gaz. vol. 183; p. 1301.
Citizens' Wholesale Supply Co., The, Columbus, Ohio. Talcum and sachet powders, perfume, toilet water, &c. No. 89,338; Dec. 10; Gaz. vol. 185; p. 518.
Citra Fruit Company, The, Citra, Fla. Oranges, lemons, grape-fruit, tangerines, and limes. Nos. 88,845–6; Oct. 29; Gaz. vol. 183; p. 1301.

Alphabetical list of registrants of trade-marks—Continued.

Citrolax Co., Valparaiso, Ind. Compound laxative preparation. No. 87,042; June 25; Gaz. vol. 179; p. 1101.
City Baking Company, Baltimore, Md. Bread. Nos. 87,318–19; July 9; Gaz. vol. 180; p. 597.
City Fuel Company, Chicago, Ill. Coal. No. 85,557; Feb. 27; Gaz. vol. 175; p. 1093.
Claflin, Mary E., Philadelphia, Pa. Boots and shoes. No. 87,853; Aug. 13; Gaz. vol. 181; p. 535.
Clague, Stanley, assignor to Yours Truly Company, Chicago, Ill. Shoe, leather, metal, and stove polish, washing-powder, &c. No. 85,075; Jan. 30; Gaz. vol. 174; p. 1211.
Clague, Stanley, assignor to Yours Truly Company, Chicago, Ill. Certain foods. No. 85,076; Jan. 30; Gaz. vol. 174; p. 1211.
Clancy, John R., Syracuse, N. Y. Hose-clamps. No. 85,226; Feb. 6; Gaz. vol. 175; p. 259.
Clark Co., John W. M., The, Athol, Mass. Remedy for certain diseases. No. 87,043; June 25; Gaz. vol. 179; p. 1101.
Clark & Dupré Wringer Mop Co., Worcester, Mass. Combined brush, scraper, mop, and wringer. No. 85,730; Mar. 12; Gaz. vol. 176; p. 521.
Clark & Host Co., Milwaukee, Wis. Coffee, tea, spices, flavoring extracts, &c. No. 86,280; Apr. 30; Gaz. vol. 177; p. 1291.
Clark & Host Co., Milwaukee, Wis. Blended coffee and tea. No. 87,602; July 30; Gaz. vol. 180; p. 1387.
Clark-Hutchinson Company, Boston, Mass. Boots and shoes. No. 85,648; Mar. 5; Gaz. vol. 176; p. 269.
Clarkson & Ford Company, The, New York, N. Y. Lubricating-oil. No. 86,881; June 11; Gaz. vol. 179; p. 567.
Clauberg & Co., F. A., New York, N. Y. Razors, razor-blades, shears, knives, &c. No. 88,615; Oct. 8; Gaz. vol. 183; p. 499.
Claussen Brewing Association, Seattle, Wash. Beer. No. 87,977; Aug. 20; Gaz. vol. 181; p. 815.
Clay & Abraham, Liverpool, England. Obtundents. No. 84,939; Jan. 16; Gaz. vol. 174; p. 823.
Clayton Chemical Co., New York, N. Y. Medicinal pills. No. 89,095; Nov. 12; Gaz. vol. 184; p. 545.
Clayton Chemical Company, New York, N. Y. Remedy in liquid form for certain named diseases. No. 89,624; Dec. 31; Gaz. vol. 185; p. 1374.
Cleasby, William H., Hartford, Conn. Cash and expense books. No. 85,078; Jan. 30; Gaz. vol. 174; p. 1211.
Cleveland, Heman C., Buffalo, N. Y. Medicinal tablets. No. 86,787; June 4; Gaz. vol. 179; p. 281.
Cleveland Macaroni Company, Cleveland, Ohio. Macaronic paste foods. No. 86,281; Apr. 30; Gaz. vol. 177; p. 1291.
Cleveland Milling Company, The, Cleveland, Ohio. Flour. No. 85,731; Mar. 12; Gaz. vol. 176; p. 521.
Cleveland Milling Company, Cleveland, Ohio. Flour. No. 87,603; July 30; Gaz. vol. 180; p. 1387.
Cleveland Provision Co., The, Cleveland, Ohio. Lard. No. 88,399; Sept. 17; Gaz. vol. 182; p. 717.
Climax Sanitary Company, Detroit, Mich. Water-closets, closet seats and bowls, and flushing-tanks. No. 86,696; May 28; Gaz. vol. 178; p. 1147.
Cline & Shaw Fuel Co., Galesburg, Ill. Coal and coke. No. 89,176; Nov. 19; Gaz. vol. 184; p. 799.
Clinkscales & Son, R. M., Dallas, Tex. Remedy for certain diseases. No. 85,558; Feb. 27; Gaz. vol. 175; p. 1093.
Closset & Devers, Portland, Oreg. Imitation maple flavor. No. 86,129; Apr. 16; Gaz. vol. 177; p. 765.
Cloverdale Company, The, Boston, Mass. Certain foods. No. 85,414; Feb. 20; Gaz. vol. 175; p. 837.
Co-Ran Bed Company, Oakland, Cal. Canopy-beds. No. 88,851; Oct. 29; Gaz. vol. 183; p. 1302.
Coal Tar Products Company, New York, N. Y. Roofing-cement. No. 86,882; June 11; Gaz. vol. 179; p. 567.
Coast Products Company, The, St. Louis, Mo. Canned and preserved fruits and canned vegetables. No. 86,207; Apr. 23; Gaz. vol. 177; p. 1039.
Coates & Company, Plymouth, England. Gin. No. 87,427; July 16; Gaz. vol. 180; p. 874.
Coates, Lydia T., Kalamazoo, Mich. Certain medicines. No. 86,384; May 7; Gaz. vol. 178; p. 314.
Coates, Lydia T., Kalamazoo, Mich. Certain medicines and pharmaceutical preparations. No. 87,044; June 25; Gaz. vol. 179; p. 1101.
Cochran, John C., New York, N. Y. Lubricating-oil. No. 89,625; Dec. 31; Gaz. vol. 185; p. 1374.
Cochrane Manufacturing Co., Dedham, Mass. Handkerchiefs. No. 84,940; Jan. 16; Gaz. vol. 174; p. 823.
Cocoanut Grove Citrus Grower's Association, The, Cocoanut Grove, Fla. Oranges, lemons, grape-fruit, tangerines, and limes. No. 85,649; Mar. 5; Gaz. vol. 176; p. 269.
Cocoanut Grove Citrus Grower's Association, Cocoanut Grove, Fla. Oranges, lemons, grape-fruit, tangerines, and limes. No. 88,847; Oct. 29; Gaz. vol. 183; p. 1301.
Cocoanut Grove Citrus Growers' Association, The, Cocoanut Grove, Fla. Oranges, lemons, grape-fruit, tangerines, and limes. No. 89,002; Nov. 5; Gaz. vol. 184; p. 281.
Code Portwood Canning Co., Fruitvale, Oakland, Cal. Canned fruits and vegetables, fruit jams and jellies. No. 88,848; Oct. 29; Gaz. vol. 183; p. 1301.
Coes Wrench Company, Worcester, Mass. Wrenches. No. 88,616; Oct. 8; Gaz. vol. 183; p. 499.
Cohen Bros. Company, Milwaukee, Wis. Shirts and underwear. No. 85,327; Feb. 13; Gaz. vol. 175; p. 537.
Cohen, Samuel, Baltimore, Md. Salve for the treatment of rheumatism. No. 85,559; Feb. 27; Gaz. vol. 175; p. 1093.
Colcombet Fois & Co., St. Etienne, France. Velvet ribbons. Nos. 88,734–5; Oct. 22; Gaz. vol. 183; p. 1027.
Colebrook's Sons, W. H., Syracuse, N. Y. Certain construction materials. No. 86,788; June 4; Gaz. vol. 179; p. 281.
Coleman, Winona T., Boston, Mass. Bitumen. No. 86,789; June 4; Gaz. vol. 179; p. 281.
Colgate & Co., New York, N. Y. Soaps and soap powders. No. 88,666; Oct. 15; Gaz. vol. 183; p. 777.
Colgate & Co., Jersey City, N. J., and New York, N. Y. Perfumes. No. 89,226; Dec. 3; Gaz. vol. 185; p. 243.
Collier, William N., Gail, Tex. Remedies for cancer, skin and blood diseases. No. 87,728; Aug. 6; Gaz. vol. 181; p. 260.
Collin Valve Company, The, Bridgeport, Conn. Steam-valves. No. 85,732; Mar. 12; Gaz. vol. 176; p. 521.
Collins & Aikman Co., Philadelphia, Pa. Certain kinds of piece goods. No. 88,061; Aug. 27; Gaz. vol. 181; p. 1067.
Collins Company, The, Collinsville, Conn. Plows and parts thereof. Nos. 87,978–9; Aug. 20; Gaz. vol. 181; p. 815.
Collins Company, The, Collinsville, Conn. Certain named cutlery and tools. No. 87,980; Aug. 20; Gaz. vol. 181; p. 815.
Collins Company, The, Collinsville, Conn. Plows and parts thereof. No. 87,981; Aug. 20; Gaz. vol. 181; p. 815.
Collins Company, The, Collinsville, Conn. Certain named cutlery and tools. No. 88,164; Sept. 3; Gaz. vol. 182; p. 243.
Collins Company, The, Collinsville, Conn. Certain named hardware articles. No. 89,008; Nov. 5; Gaz. vol. 184; p. 281.
Collins Company, The, Collinsville, Conn. Plows. No. 89,009; Nov. 5; Gaz. vol. 184; p. 281.
Collins Company, Collinsville, Conn. Certain named cutlery, machinery, and tools. No. 89,537; Dec. 24; Gaz. vol. 185; p. 1049.
Collins Company, Collinsville, Conn. Certain named cutlery and tools. No. 89,538; Dec. 24; Gaz. vol. 185; p. 1049.
Collins Company, The, Collinsville, Conn. Certain named cutlery and tools. No. 89,626; Dec. 31; Gaz. vol. 185; p. 1374.
Collins & Fairbanks Co., Boston, Mass. Men's and women's coats and wraps. No. 85,947; Apr. 2; Gaz. vol. 177; p. 235.
Collins McCarthy Candy Co., San Francisco, Cal. Popcorn products. No. 89,010; Nov. 5; Gaz. vol. 184; p. 281.
Colman Limited, J. & J., London, England. Mustard. No. 87,166; July 2; Gaz. vol. 180; p. 316.
Colonial Electric Car Co., Detroit, Mich. Motor-vehicles, running-gears, and chassis. No. 88,468; Sept. 24; Gaz. vol. 182; p. 965.
Colonial Leather Company, Chicago, Ill. Leather belting. No. 86,385; May 7; Gaz. vol. 178; p. 314.
Colonial Leather Company, Chicago, Ill. Leather belting. No. 86,513; May 14; Gaz. vol. 178; p. 587.
Colt and Dixon Packing and Manufacturing Company, The, Frederick, Md. Canned vegetables. No. 85,797; Mar. 19; Gaz. vol. 176; p. 745.
Columbia Engineering Works, Portland, Oreg. Logging-blocks. No. 87,167; July 2; Gaz. vol. 180; p. 316.
Columbia G. m. b. H., Tsingtau, China. Eggs and egg preparations. No. 87,428; July 16; Gaz. vol. 180; p. 874.
Columbia Phonograph Company, General, Washington, D. C. Sound-record blanks. No. 86,978; June 18; Gaz. vol. 179; p. 847.
Columbia Phonograph Company General, Washington, D. C. Machines for recording dictation, machines for reproducing dictation, &c. No. 89,227; Dec. 3; Gaz. vol. 185; p. 243.
Columbia Rope Co., Auburn, N. Y. Manila and sisal rope and cordage. No. 87,854; Aug. 13; Gaz. vol. 181; p. 535.
Columbia Typewriter Manufacturing Company, The, New York, N. Y. Type-writers and parts. No. 85,227; Feb. 6; Gaz. vol. 175; p. 259.
Columbia Typewriter Manufacturing Company, The, New York, N. Y. Type-writers and parts thereof. No. 86,574; May 21; Gaz. vol. 178; p. 879.
Columbian Enameling & Stamping Co., Terre Haute, Ind. Certain named hardware, plumbing, and steam-fitting supplies. No. 89,539; Dec. 24; Gaz. vol. 185; p. 1049.
Columbian Rope Co., Auburn, N. Y. Manila and sisal rope. No. 84,727; Jan. 2; Gaz. vol. 174; p. 283.
Columbian Rope Company, Auburn, N. Y. Manila and sisal rope and cordage. No. 86,755; May 28; Gaz. vol. 178; p. 1149.
Columbus Brick and Terra Cotta Co., The, Columbus, Ohio. Brick. No. 84,941; Jan. 16; Gaz. vol. 174; p. 823.

Alphabetical list of registrants of trade-marks—Continued.

Columbus Piano Co., The, Columbus, Ohio. Pianos and player-pianos. No. 86,575; May 21; Gaz. vol. 178; p. 879.
Columbus Pump Supply Co., The, Columbus, Ohio. Internal-combustion engines. No. 87,168; July 2; Gaz. vol. 180; p. 316.
Colvin, George A., Chicago, Ill. Tonic laxative. No. 88,062; Aug. 27; Gaz. vol. 181; p. 1067.
Colvin, Ronald B., Berlin, Pa. Anesthetic. No. 88,667; Oct. 15; Gaz. vol. 183; p. 777.
Colwell, Eugene, Jr., Greensboro, N. C. Type-writers and type-writer parts. No. 87,729; Aug. 6; Gaz. vol. 181; p. 260.
Commercial Travelers' Club, Springfield, Mass. Quarterly magazine. No. 85,415; Feb. 20; Gaz. vol. 175; p. 837.
Commercial Vehicle, Inc., The, New York, N. Y. Monthly magazines. No. 88,850; Oct. 29; Gaz. vol. 183; p. 1301.
Compagnie d'Exploitation des Bois de la Tortue (Société Anonyme), Brussels, Belgium, and Lavellée, Haiti. Timber. No. 85,560; Feb. 27; Gaz. vol. 175; p. 1093.
Compagnie Fermière de l'Établissement Thermal de Vichy, Paris, France. Natural mineral waters. Nos. 86,208–9; Apr. 23; Gaz. vol. 177; p. 1039.
Compagnie Fermière de l'Établissement Thermal de Vichy, Paris, France. Natural mineral waters. No. 86,576; May 21; Gaz. vol. 178; p. 879.
Compagnie Fermière de l'Établissement Thermal de Vichy, Paris, France. Certain non-alcoholic beverages. Nos. 87,320–1; July 9; Gaz. vol. 180; p. 597.
Compagnie Fermière de l'Établissement Thermal de Vichy, Paris, France. Pastils made with salts extracted from natural mineral waters. No. 87,429; July 16; Gaz. vol. 180; p. 874.
Compagnie Fermière de L'Etablissement Thermal de Vichy, Paris, France. Natural mineral waters. No. 88,244; Sept. 10; Gaz. vol. 182; p. 503.
Compagnie Fermière de L'Établissement Thermal de Vichy, Paris, France. Natural mineral waters. No. 88,736; Oct. 22; Gaz. vol. 183; p. 1027.
Compagnie Française de la Chamoiserie Nouvelle, Paris, France. Certain named clothing. No. 89,627; Dec. 31; Gaz. vol. 185; p. 1374.
Compagnie Generale de Phonographes Cinematographes et Appareils de Precision, Paris, France. Kinematographic films. No. 87,430; July 16; Gaz. vol. 180; p. 874.
Compagnie Laferme Tabak- & Cigaretten-Fabriken, Dresden, Germany. Cigarettes and smoking-tobaccos. No. 87,730; Aug. 6; Gaz. vol. 181; p. 260.
Compañia Explotadora del Mundator, S. A., Morelia, Mexico. Chemical compositions used in defecation of sugar. No. 89,177; Nov. 19; Gaz. vol. 184; p. 799.
Comstock & Co., S. E., Newark, N. Y. Canned fruits, vegetables, and sauer-kraut. No. 85,416; Feb. 20; Gaz. vol. 175; p. 837.
Comstock, Stephen E., Newark, N. Y. Canned vegetables. No. 88,063; Aug. 27; Gaz. vol. 181; p. 1067.
Conduit & Cable Manufacturing Company, The, Chelsea, Mass. Conduits for electric wirings. No. 86,386; May 7; Gaz. vol. 178; p. 314.
Connor, Jerome L., Pittsburgh, Pa. Polishing-cloth. No. 89,628; Dec. 31; Gaz. vol. 185; p. 1374.
Conover, Seth H., Plymouth, Wis. Cream-cheese. No. 87,045; June 25; Gaz. vol. 179; p. 1101.
Conradty (Inhaber Pauline & Eugen Conradty) Fabrik elektrischer u. galvanischer Kohlen, C., Nuremberg, Germany. Electric-arc-light carbons. No. 85,079; Jan. 30; Gaz. vol. 174; p. 1211.
Conradty (Inhaber Pauline & Eugen Conradty) Fabrik elektrischer u. galvanischer Kohlen, C., Nuremberg, Germany. Certain electrical apparatus and supplies. No. 88,064; Aug. 27; Gaz. vol. 181; p. 1067.
Conservenfabrik Lenzburg vorm. Henckell & Roth, Lenzburg, Switzerland. Certain foods. No. 85,080; Jan. 30; Gaz. vol. 174; p. 1212.
Consolidated Cotton Duck Company, Baltimore, Md. Certain knitted, netted, and textile fabrics. No. 86,514; May 14; Gaz. vol. 178; p. 587.
Consumers Company, Chicago, Ill. Hydrogen peroxid. No. 85,846; Mar. 26; Gaz. vol. 176; p. 1065.
Consumers Company, Chicago, Ill. Certain non-alcoholic beverages. No. 86,282; Apr. 30; Gaz. vol. 177; p. 1291.
Continental-Caoutchouc- und Gutta-Percha-Compagnie, Hanover, Germany. Rubber-proofed sheetings for vessels for navigating the air. No. 88,065; Aug. 27; Gaz. vol. 181; p. 1067.
Continental Latch Needle Company, New York, N. Y. Knitting-machine needles. No. 89,011; Nov. 5; Gaz. vol. 184; p. 281.
Continental Metal Company, The, Brooklyn, N. Y. Anti-friction metal. Nos. 87,855–6; Aug. 13; Gaz. vol. 181; p. 535.
Continental Radiator & Foundry Co., St. Louis, Mo. Water-heaters. No. 88,066; Aug. 27; Gaz. vol. 181; p. 1067.
Continental Rubber Works, Erie, Pa. Rubber tires. No. 89,228; Dec. 3; Gaz. vol. 185; p. 243.
Continental Supply Company, The, St. Louis, Mo. Rubber machinery-belts and composition packing. No. 89,445; Dec. 17; Gaz. vol. 185; p. 823.
Continuous Rail Company, Wilmington, Del., and New York, N. Y. Railway-rails. Nos. 86,883–4; June 11; Gaz. vol. 179; p. 567.
Converse & Son, Morton E., Winchendon, Mass. Children's rockers. No. 87,322; July 9; Gaz. vol. 180; p. 597.
Converse & Son, Morton E., Winchendon, Mass. Certain toys. No. 87,604; July 30; Gaz. vol. 180; p. 1387.
Convey, James J., New York, N. Y. Liniment. No. 86,387; May 7; Gaz. vol. 178; p. 314.
Conway Bros. Brewing & Malting Company, Troy, N. Y. Beer. No. 85,081; Jan. 30; Gaz. vol. 174; p. 1212.
Conway, Frank G., New York, N. Y. Hair-tonic. No. 88,489; Oct. 29; Gaz. vol. 183; p. 1301.
Cook, Herbert R., Peabody, Mass. Sweeping compound. No. 88,469; Sept. 24; Gaz. vol. 182; p. 965.
Cookson and Company Limited, Newcastle-upon-Tyne, England. Massicot, litharge, lead, and type-metal. No. 88,245; Sept. 10; Gaz. vol. 182; p. 503.
Coolidge, T. Jefferson, *et al.*, trustees. (See Amoskeag Manufacturing Company, assignor.)
Coolidge, T. Jefferson, Jr., *et al.*, trustees. (See Amoskeag Manufacturing Company, assignor.)
Coon, Edward W., Philadelphia, Pa. Cheese. No. 87,857; Aug. 13; Gaz. vol. 181; p. 535.
Coonley Manufacturing Company, Clyde, Ill. Certain hardware supplies. No. 86,577; May 21; Gaz. vol. 178; p. 879.
Copal Varnish Company Limited, London, England. Varnishes and paints. No. 87,605; July 30; Gaz. vol. 180; p. 1387.
Copal Varnish Company, Limited, London, England. Enamel. No. 88,067; Aug. 27; Gaz. vol. 181; p. 1067.
Corcos, Joseph, New York, N. Y. Furniture and metal polish. No. 87,169; July 2; Gaz. vol. 180; p. 316.
Corday & Co., New York, N. Y. Coats, vests, trousers, and overcoats. No. 85,229; Feb. 6; Gaz. vol. 175; p. 259.
Cordley & Hayes, New York, N. Y. Paper cups. No. 87,606; July 30; Gaz. vol. 180; p. 1387.
Cormier, Neville, Crowley, La. Cancer remedy. No. 85,706; Mar. 5; Gaz. vol. 176; p. 271.
Corn Products Refining Company, Jersey City, N. J., and New York, N. Y. Compound of corn and sugar syrup. No. 85,948; Apr. 2; Gaz. vol. 177; p. 235.
Corn Products Refining Company, New York, N. Y. Laundry starch. No. 87,323; July 9; Gaz. vol. 180; p. 597.
Corn Publishing Company, Waterloo, Iowa. Monthly magazine. No. 87,431; July 16; Gaz. vol. 180; p. 874.
Cornell & Ward, New York, N. Y. Toilet-paper. No. 87,982; Aug. 20; Gaz. vol. 181; p. 815.
Corona Chemical Company, Chicago, Ill. Medicines for diseases of the skin. No. 86,210; Apr. 23; Gaz. vol. 177; p. 1039.
Corona Cut Glass Company, Toledo, Ohio. Cut and engraved glassware. No. 85,034; Jan. 23; Gaz. vol. 174; p. 1023
Corticine Floor Covering Company, Limited, The, London, England. Floor-coverings. No. 86,130; Apr. 16; Gaz. vol. 177; p. 765.
Cott-a-lap Company, The, New Haven, Conn., and Somerville, N. J. Specially-prepared size for certain uses. No. 88,737; Oct. 22; Gaz. vol. 183; p. 1027.
Courtnage, William, Great Falls, Mont. Cheese, cream, butter, eggs, and ice-cream. No. 87,858; Aug. 13; Gaz. vol. 181; p. 535.
Courtney, Robert A., Baltimore, Md. Pile remedy. No. 88,246; Sept. 10; Gaz. vol. 182; p. 503.
Covert Mfg. Co., Watervliet, N. Y. Harness hardware. No. 85,082; Jan. 30; Gaz. vol. 174; p. 1212.
Cox, John B., Maryville, Mo. External remedy for certain diseases. No. 86,037; Apr. 9; Gaz. vol. 177; p. 519.
Coyle, Lander T., Ardmore, Okla. Remedies for hog and chicken cholera. No. 88,553; Oct. 1; Gaz. vol. 183; p. 213.
Coyne, Joseph D., Grangeville, Idaho. Cigars. No. 88,165; Sept. 3; Gaz. vol. 182; p. 243.
Craig, Charles J., Salisbury, Conn. Malarial tablets. No. 87,432; July 16; Gaz. vol. 180; p. 874.
Craker, Robert J., Oakland, Cal. Letters for signs. No. 85,328; Feb. 13; Gaz. vol. 175; p. 537.
Cramer, Ben W., Washington, D. C. Weekly periodical. No. 87,324; July 9; Gaz. vol. 180; p. 597.
Crane, Clarence A., Cleveland, Ohio. Candy. No. 88,243; Sept. 10; Gaz. vol. 182; p. 503.
Crane, Clarence A., Cleveland, Ohio. Candy. Nos. 89,339–40; Dec. 10; Gaz. vol. 185; p. 519.
Crane Medicine Co., Chicago, Ill. Remedy for coughs and colds. No. 85,083; Jan. 30; Gaz. vol. 174; p. 1212.
Cratz, William E., Toledo, Ohio. Clover-seeds. No. 87,170; July 2; Gaz. vol. 180; p. 316.
Crawford & Bowdle, Lima, Ohio. Leather shoes. No. 88,852; Oct. 29; Gaz. vol. 183; p. 1302.
Cream City Brewing Company, Milwaukee, Wis. Beer. No. 89,446; Dec. 17; Gaz. vol. 185; p. 823.
Crescent Forgings Company, Oakmont, Pa. Wrenches. No. 88,166; Sept. 3; Gaz. vol. 182; p. 243.
Crescent Macaroni and Cracker Co., Davenport, Iowa. Macaroni. No. 86,885; June 11; Gaz. vol. 179; p. 567.
Crescent Machine Co., The, Leetonia, Ohio. Certain named machines. No. 87,607; July 30; Gaz. vol. 180; p. 1387.

Alphabetical list of registrants of trade-marks—Continued.

Crescent Machine Company, Leetonia, Ohio. Jointers, planers, shapers, &c. No. 85,230; Feb. 6; Gaz. vol. 175; p. 259.
Criswell, Francis M., Washington, D. C. Preparation for certain ailments. No. 87,046; June 25; Gaz. vol. 179; p. 1101.
Crocker Grocery Company, Wilkes-Barre, Pa. Certain foods. No. 85,417; Feb. 20; Gaz. vol. 175; p. 837.
Crosse & Blackwell, Limited, London, England. Pickles and malt vinegar. No. 84,942; Jan. 16; Gaz. vol. 174; p. 823.
Crosse & Blackwell, Limited, London, England. Pickles. No. 85,798; Mar. 19; Gaz. vol. 176; p. 745.
Crossley & Davenport, London, England. Certain kinds of machinery. No. 86,698; May 28; Gaz. vol. 178; p. 1147.
Crowell Fruit Juice Co., The, Belfast, N. Y. Grape and cranberry juices. No. 86,578; May 21; Gaz. vol. 178; p. 879.
Crown City Bottling & Syrup Co., Birmingham, Ala. Carbonated non-alcoholic beverages. No. 88,738; Oct. 22; Gaz. vol. 183; p. 1027.
Crown Columbia Paper Co., San Francisco, Cal. Paper bags. No. 87,524; July 23; Gaz. vol. 180; p. 1133.
Crown Corset Company, New York, N. Y. Corsets, corset-waists, brassières, and underwaists. No. 85,084; Jan. 30; Gaz. vol. 174; p. 1212.
Crown Oil & Wax Co. of Delaware, Wilmington, Del., and Baltimore, Md. Illuminating-oils. No. 87,608; July 30; Gaz. vol. 180; p. 1387.
Cruikshank Brothers Company, Pittsburgh, Pa. Preserved fruits and pickles. No. 87,171; July 2; Gaz. vol. 180; p. 316.
Crump, Lawrence M., Indianapolis, Ind. Cigars. No. 87,325; July 9; Gaz. vol. 180; p. 597.
Crump, Lawrence M., Indianapolis, Ind. Cigars. No. 88,167; Sept. 3; Gaz. vol. 182; p. 243.
Cruse & Fils Freres, Bordeaux, France. Clarets and sauternes. No. 86,283; Apr. 30; Gaz. vol. 177; p. 1291.
Crystal Gelatine Company, Boston, Mass. Coffee-settler. No. 85,085; Jan. 30; Gaz. vol. 174; p. 1212.
Cudahy Packing Company, The, Chicago, Ill. Metal-polish. No. 86,699; May 28; Gaz. vol. 178; p. 1147.
Cudahy Packing Company, Chicago, Ill. Hams and bacon. No. 86,886; June 11; Gaz. vol. 179; p. 567.
Cumberland Mfg. Co., Nashville, Tenn. Flavoring extracts and spices. No. 84,817; Jan. 9; Gaz. vol. 174; p. 579.
Cumberland Steel Company, Cumberland, Md. Steel bars. No. 89,096; Nov. 12; Gaz. vol. 184; p. 545.
Cummings, George K., New York, N. Y. Cereal breakfast foods. No. 86,887; June 11; Gaz. vol. 179; p. 567.
Cummings, George K., New York, N. Y. Cereal breakfast foods. No. 87,172; July 2; Gaz. vol. 180; p. 316.
Cummings Manufacturing Company, Morristown, N. J. Foot powder, cream, lotion, and bath tablets. No. 86,039; Apr. 9; Gaz. vol. 177; p. 519.
Cunard Motor and Carriage Company Limited, The, London, England. Motor-cars and car-bodies. No. 89,343; Dec. 10; Gaz. vol. 185; p. 519.
Cunningham Supply Company, Philadelphia, Pa. Carbonated beverages, &c. No. 87,173; July 2; Gaz. vol. 180; p. 316.
Curry-Hewitt Tobacco Co., Cleveland, Ohio. Smoking-tobacco. No. 89,541; Dec. 24; Gaz. vol. 185; p. 1049.
Curtis, Michael, Burlington, Vt. Medicine for rheumatism. No. 87,525; July 23; Gaz. vol. 180; p. 1133.
Curtis Publishing Company, Philadelphia, Pa. Weekly journal. No. 84,728; Jan. 2; Gaz. vol. 174; p. 283.
Curtis's & Harvey, Limited, London, England. Gunpowder. No. 88,247; Sept. 10; Gaz. vol. 182; p. 503.
Cushman, Allerton S., Washington, D. C. Oil-paints and pigments for oil-paints. No. 88,739; Oct. 22; Gaz. vol. 183; p. 1027.
Cushman & Denison Manufacturing Company, New York, N. Y. Paper-fasteners. No. 89,230; Dec. 3; Gaz. vol. 185; p. 243.
Cusimano, Jacob, New Orleans, La. Tomato paste. No. 84,818; Jan. 9; Gaz. vol. 174; p. 579.
Cutaway Harrow Co., The, Higganum, Conn. Mills for grinding fruit and similar substances. No. 89,097; Nov. 12; Gaz. vol. 184; p. 545.
Cyprez Remedy Co. (See Durant, Annie C., assignor.)
D. L. Clark Company, Pittsburgh, Pa. Chewing-gum. No. 87,426; July 16; Gaz. vol. 180; p. 874.
D. P. McDonald & Sons, Limited, Fort William, Scotland. Whisky. No. 88,332; Sept. 10; Gaz. vol. 182; p. 506.
D & W Fuse Co., Providence, R. I. Magnetic chucks. No. 87,433; July 16; Gaz. vol. 180; p. 874.
D. W. Mellen Company, Springfield, Mass. Paint. No. 87,783; Aug. 6; Gaz. vol. 181; p. 261.
D. W. C. Ellis & Co., Inc., Philadelphia, Pa. Linen, cotton, woolen, and silk piece goods. Nos. 86,703–4; May 28; Gaz. vol. 178; p. 1147.
Daimler-Motoren-Gesellschaft, Untertürkheim, near Stuttgart, Germany. Motors, motor parts and armatures, &c. No. 85,949; Apr. 2; Gaz. vol. 177; p. 235.
Daisy Mf'g. Co., South Bend, Ind. Certain named tools. No. 87,983; Aug. 20; Gaz. vol. 181; p. 815.
Daland, Frederick H., New York, N. Y. Soap. No. 85,086; Jan. 30; Gaz. vol. 174; p. 1212.
Dalton Medicine Co., Fayetteville, Tenn. Remedy for headache and neuralgia. No. 85,561; Feb. 27; Gaz. vol. 175; p. 1093.
Damard Lacquer Company Limited, London, England. Paints, lacquers, and varnishes. No. 85,418; Feb. 20; Gaz. vol. 175; p. 837.
Dana Manufacturing Company, Norwood, Ohio. Ice-cream freezers. No. 86,515; May 14; Gaz. vol. 178; p. 587.
Daniel, Charles A., Philadelphia, Pa. Rubber, hose, belting, packing, &c. No. 86,516; May 14; Gaz. vol. 178; p. 587.
Daniel, Charles A., Philadelphia, Pa. Force-cups, plumbers' friend, and toilet-plunger. No. 86,700; May 28; Gaz. vol. 178; p. 1147.
Daniel, Charles A., Philadelphia, Pa. Rubber and pneumatic tires. No. 87,047; June 25; Gaz. vol. 179; p. 1101.
Daniel, Charles A., Philadelphia, Pa. Rubber and pneumatic tires. No. 89,344; Dec. 10; Gaz. vol. 185; p. 519.
Daniel, Jno. B., Atlanta, Ga. Nerve and blood tonic. No. 85,847; Mar. 26; Gaz. vol. 176; p. 1065.
Daniel, Jno. B., Atlanta, Ga. Sedative, antispasmodic, and nerve tonic. No. 86,211; Apr. 23; Gaz. vol. 177; p. 1039.
Daniels, Jay V., Chicago, Ill. Face-powders. No. 87,859; Aug. 13; Gaz. vol. 181; p. 535.
Daniels, Jay V., Chicago, Ill. Ointment or cream. No. 89,231; Dec. 3; Gaz. vol. 185; p. 243.
Danzer, Henry, Paris, France. Certain scientific appliances. No. 85,848; Mar. 26; Gaz. vol. 176; p. 1065.
Davenport Pearl Button Company, Davenport, Iowa. Button-cards. No. 87,860; Aug. 13; Gaz. vol. 181; p. 535.
David, John, New York, N. Y. Certain fancy goods and notions. No. 86,284; Apr. 30; Gaz. vol. 177; p. 1291.
David & John Anderson Limited, Glasgow, Scotland. Cotton, worsted, and woolen dress goods and shirtings. No. 87,403; July 16; Gaz. vol. 180; p. 873.
Davidge & Co., T. C. (See Davidge, Frank C.)
Davidge, Frank C., assignor to T. C. Davidge & Co., Toronto, Ontario, Canada. Wall-papers. No. 86,285; Apr. 30; Gaz. vol. 177; p. 1291.
Davidson, Archibald, New York, N. Y. Tea, coffee, and cocoa. No. 88,401; Sept. 17; Gaz. vol. 182; p. 717.
Davidson, Archibald, New York, N. Y. Tea. No. 89,012; Nov. 5; Gaz. vol. 184; p. 281.
Davidson Brothers Company, Des Moines, Iowa. Candy. No. 88,853; Oct. 29; Gaz. vol. 183; p. 1302.
Davidson, George, New York, N. Y. Mirror adjustable supports. No. 86,888; June 11; Gaz. vol. 179; p. 567.
Davidson, William J., St. Paul, Minn. Pile remedy. No. 85,562; Feb. 27; Gaz. vol. 175; p. 1093.
Davis, Edwin F., Revere and Boston, Mass. Remedy for tuberculosis. No. 88,470; Sept. 24; Gaz. vol. 182; p. 965.
Davis, George R., Seattle, Wash. Leather shoes and boots. No. 86,131; Apr. 16; Gaz. vol. 177; p. 765.
Davis Milling Company, The, St. Joseph, Mo., assignor to Nebraska Corn Products Co., Beatrice, Nebr. Cornmeal. No. 84,174; July 2; Gaz. vol. 180; p. 316.
De Cernea, Albert, New York, N. Y. Blankets. No. 84,943; Jan. 16; Gaz. vol. 174; p. 823.
De Fi Manufacturing Company, New York, N. Y. Carbon-paper and type-writing ribbon. No. 86,286; Apr. 30; Gaz. vol. 177; p. 1291.
De Huy, Bernard H., Abilene, Kans. Labels. No. 85,950; Apr. 2; Gaz. vol. 177; p. 235.
De Long Hook and Eye Company, The, Philadelphia, Pa. Hooks and eyes. Nos. 89,549–50; Dec. 24; Gaz. vol. 185; p. 1049.
De Pooter, Joseph, Lierre, Belgium. Canned vegetables. No. 85,088; Jan. 30; Gaz. vol. 174; p. 1212.
De Soto Mineral Spring Company, The, Hot Springs, Ark. Natural spring-water. No. 85,953; Apr. 2; Gaz. vol. 177; p. 235.
De Vilbiss Manufacturing Company, The, Toledo, Ohio. Certain cutlery, machinery, and tools, and parts thereof. No. 87,175; July 2; Gaz. vol. 180; p. 316.
De Vilbiss Manufacturing Company, Toledo, Ohio. Atomizers and nebulizers. Nos. 87,733–4; Aug. 6; Gaz. vol. 181; p. 260.
De Vilbiss Manufacturing Company, The, Toledo, Ohio. Atomizers, nebulizers, and powder-blowers. No. 88,554; Oct. 1; Gaz. vol. 183; p. 213.
Deacon Brown Manufacturing Company, Montgomery, Ala. Beverage and syrup for making same. No. 84,821; Jan. 9; Gaz. vol. 174; p. 579.
Dean Electric Company, The, Elyria, Ohio. Electric signaling-horns. No. 86,701; May 28; Gaz. vol. 178; p. 1147.
Dean Electric Company, The, Elyria, Ohio. Electric relays. No. 88,168; Sept. 3; Gaz. vol. 182; p. 243.
Dean Electric Company, The, Elyria, Ohio. Dynamo-electric machines. No. 88,471; Sept. 24; Gaz. vol. 182; p. 966.
Dean-Lilly Coffee and Spice Co., The, Memphis, Tenn. Coffee. No. 87,609; July 30; Gaz. vol. 180; p. 1388.

Alphabetical list of registrants of trade-marks—Continued.

Debevoise-Anderson Company, New York, N. Y. Solid, porous, friable residue from distillation of petroleum. No. 85,087; Jan. 30; Gaz. vol. 174; p. 1212.
Decker & Cohn, Alfred, Chicago, Ill. Coats, vests, and trousers. No. 85,419; Feb. 20; Gaz. vol. 175; p. 837.
Deere & Company, Moline, Ill. Certain named machines and implements and windmills. No. 88,248; Sept. 10; Gaz. vol. 182; p. 503.
Deere & Company, Moline, Ill. Certain agricultural machines and implements and windmills. No. 88,249; Sept. 10; Gaz. vol. 182; p. 503.
Defiance Button Machine Co., New York, N. Y. Buttons and parts of buttons. No. 87,984; Aug. 20; Gaz. vol. 181; p. 815.
Deforest Sheet & Tinplate Co., The, Niles, Ohio. Sheet-steel. No. 85,231; Feb. 6; Gaz. vol. 175; p. 259.
Deforest Sheet & Tinplate Co., The, Niles, Ohio. Sheet-steel. No. 87,861; Aug. 13; Gaz. vol. 181; p. 535.
Deimel Linen Mesh System Company, San Francisco, Cal. Shirts, drawers, corset-covers, and corsets. No. 88,740; Oct. 22; Gaz. vol. 183; p. 1027.
Deimel Linen Mesh System Company, San Francisco, Cal. Cotton and linen mesh cloth. No. 89,013; Nov. 5; Gaz. vol. 184; p. 281.
Deimel Linen Mesh System Company, San Francisco, Cal. Suspensories, abdominal bands, &c. No. 89,345; Dec. 10; Gaz. vol. 185; p. 519.
Delangrenier, Guérin, Paris, France. Prepared food for infants and invalids. No. 88,854; Oct. 29; Gaz. vol. 183; p. 1302.
Delano Company, Incorporated, The Syracuse, N. Y. Remedy for certain diseases. No. 87,048; June 25; Gaz. vol. 179; p. 1101.
Delany, Philip S., Kansas City, Mo. Window-ventilators. No. 89,346; Dec. 10; Gaz. vol. 185; p. 519.
Delight-Ol Products Co. (See Morsul Company, assignor.)
Dellamano, Antonio, Boston, Mass. Seasoning sauce. No. 86,658; May 21; Gaz. vol. 178; p. 881.
Delmarvia Manufacturing Company, Smyrna, Del. Fabric undershirts, drawers, union suits, &c. No. 88,741; Oct. 22; Gaz. vol. 183; p. 1027.
Delta Oil Co., Greenville, Miss. Cotton-seed oil for cooking. No. 86,889; June 11; Gaz. vol. 179; p. 567.
Deming, William L., Salem, Ohio. Toilet-cases. No. 86,389; May 7; Gaz. vol. 178; p. 314.
Deming, William L., Salem, Ohio. Identification-tags. No. 89,347; Dec. 10; Gaz. vol. 185; p. 519.
Demisch, Otto, Nieder-Ludwigsdorf, Germany. Food product made of curdled milk. No. 89,098; Nov. 12; Gaz. vol. 184; p. 545.
Dempsey & Co., P., Boston, Mass. Wine. No. 85,329; Feb. 13; Gaz. vol. 175; p. 537.
Dempster & Place Company, The, Gloversville, N. Y. Gloves and mittens. Nos. 85,951–2; Apr. 2; Gaz. vol. 177; p. 235.
Dempster & Place Company, The, Gloversville, N. Y. Gloves and mittens. No. 86,517; May 14; Gaz. vol. 178; p. 587.
Dencolo Chemical Company, Denver, Colo. Mouth-wash and tooth paste and powder. No. 84,901; Jan. 9; Gaz. vol. 174; p. 582.
Denise, R. D., Kansas City, Mo. Hair-tonics. No. 84,729; Jan. 2; Gaz. vol. 174; p. 283.
Dennison Pharmacal Company, Chicago, Ill. Remedy for corns, calli, bunions, and warts. No. 87,526; July 23; Gaz. vol. 180; p. 1133.
Denny, Hilborn & Rosenbach, Philadelphia, Pa. Paints. Nos. 86,890–2; June 11; Gaz. vol. 179; p. 568.
Denny, Hilborn & Rosenbach, Philadelphia, Pa. Paints and painters' materials. No. 87,049; June 25; Gaz. vol. 179; p. 1101.
Denny, Hilborn & Rosenbach, Philadelphia, Pa. Paints. No. 88,855; Oct. 29; Gaz. vol. 183; p. 1302.
Dentists' Supply Company, New York, N. Y. Artificial teeth. No. 89,232; Dec. 3; Gaz. vol. 185; p. 243.
Denton Brothers Drug Co., Beardstown, Ill. Tonic laxative compound. No. 87,434; July 16; Gaz. vol. 180; p. 874.
Denver Macaroni & Noodle Co., The, Denver, Colo. Macaroni, spaghetti, vermicelli, and noodles. No. 88,250; Sept. 10; Gaz. vol. 182; p. 503.
Denver Vegetable Growers Association, The, Denver, Colo. Fresh vegetables and fruits. No. 89,099; Nov. 12; Gaz. vol. 184; p. 545.
Denzer & Nathan, New York, N. Y. Flannel piece goods. No. 85,563; Feb. 27; Gaz. vol. 175; p. 1093.
Deodorolein Company, Boston and South Boston, Mass. Salves, hair-tonic, and tooth-soap. No. 89,629; Dec. 31; Gaz. vol. 185; p. 1374.
Deppe Söhne, Anton, Hamburg, Germany. Limonenes. No. 87,050; June 25; Gaz. vol. 179; p. 1101.
Dern Tea & Coffee Company, The, Colorado Springs, Colo. Tea, spices, and flavoring extracts. No. 87,862; Aug. 13; Gaz. vol. 181; p. 535.
Des Moines Brewing Company, Des Moines, Iowa. Beer. No. 89,014; Nov. 5; Gaz. vol. 184; p. 281.
Detroit Can Company, Detroit, Mich. Metal and paper cans. No. 88,251; Sept. 10; Gaz. vol. 182; p. 503.
Detroit Creamery Company, Detroit, Mich. Butter. No. 87,326; July 9; Gaz. vol. 180; p. 597.
Detroit Garment Manufacturing Company, Detroit, Mich. Dresses. No. 87,527; July 23; Gaz. vol. 180; p. 1133.
Detroit Insulated Wire Company, Detroit, Mich. Insulated electric wires. No. 87,051; June 25; Gaz. vol. 179; p. 1101.
Detroit Insulated Wire Company, Detroit, Mich. Insulated electric wires. No. 88,252; Sept. 10; Gaz. vol. 182; p. 504.
Detroit Sanitary Supply Co., Detroit, Mich. Hardware and plumbing and steam-fitting supplies. No. 86,893; June 11; Gaz. vol. 179; p. 568.
Detroit Show Case Co., Detroit, Mich. Show-cases. No. 89,447; Dec. 17; Gaz. vol. 185; p. 823.
Deutsch-Amerikanische Gasglühlicht-Gesellschaft Patent Ross G. m. b. H. Düsseldorf, assignor to Internationale Gasglühlicht-Actien-Gesellschaft, Dusseldorf, Germany. Incandescent gas-mantles. No. 87,732; Aug. 6; Gaz. vol. 181; p. 260.
Dexter, Philip, *et al.*, trustees. (See Amoskeag Manufacturing Company, assignor.)
Dexter & Sons, C. H., Windsor Locks, Conn. Writing, printing, and tissue paper. Nos. 88,555–6; Oct. 1; Gaz. vol. 183; p. 213.
Diamond Creamery Co., Massena, N. Y. Butter. No. 87,863; Aug. 13; Gaz. vol. 181; p. 535.
Diamond Electric Co., Binghamton, N. Y. Certain electrically-heated goods. No. 87,610; July 30; Gaz. vol. 180; p. 1388.
Diamond Rubber Co., The, Akron, Ohio. Rubber and rubber and fabric boots and shoes. No. 84,822; Jan. 9; Gaz. vol. 174; p. 579.
Dickey & Dickey, Dinuba, Cal. Fresh grapes, peaches, and oranges. No. 86,680; May 21; Gaz. vol. 178; p. 882.
Dieckerhoff, Raffloer & Company, New York, N. Y. Thread for fine needlework. No. 84,823; Jan. 9; Gaz. vol. 174; p. 579.
Dieckerhoff, Raffloer & Co., New York, N. Y. Thread. No. 85,564; Feb. 27; Gaz. vol. 175; p. 1093.
Dieckerhoff, Raffloer & Co., New York, N. Y. Ribbons and hair-nets. No. 85,565; Feb. 27; Gaz. vol. 175; p. 1093.
Dieckerhoff, Raffloer & Co., New York, N. Y. Elastic lisle webbing. No. 86,518; May 14; Gaz. vol. 178; p. 587.
Dieckerhoff, Raffloer & Co., New York, N. Y. Certain fancy goods and notions. No. 86,702; May 28; Gaz. vol. 178; p. 1147.
Diehm-Fansler Grocer Co., East St. Louis, Ill. Canned fruits, vegetables, salmon, and hominy. No. 85,954; Apr. 2; Gaz. vol. 177; p. 235.
Diehenn Manufacturing Co., The, Massillon, Ohio. Corset-covers, drawers, bloomers, and petticoats. No. 88,068; Aug. 27; Gaz. vol. 181; p. 1067.
Diller Manufacturing Company, The, Bluffton, Ohio. Fireless cookers. No. 88,558; Oct. 1; Gaz. vol. 183; p. 213.
Dilling & Company, Indianapolis, Ind. Chocolate candy. No. 88,856; Oct. 29; Gaz. vol. 183; p. 1302.
Dillon Plow & Novelty Works, Dillon, S. C. Guano-distributers. No. 88,253; Sept. 10; Gaz. vol. 182; p. 504.
Dinges, William F., Baltimore, Md. Remedy for corns, bunions, and callous spots. No. 84,944; Jan. 16; Gaz. vol. 174; p. 823.
Dinsmore Co., J. C., Kramer, Ind. Louse-exterminator. No. 85,089; Jan. 30; Gaz. vol. 174; p. 1212.
Dinsmore Manufacturing Company, Salem, Mass. Sewing-machine loopers. No. 89,015; Nov. 5; Gaz. vol. 184; p. 281.
Diongs Medical Company, Englewood, Colo. Remedy for diseases of the lungs. No. 85,849; Mar. 26; Gaz. vol. 176; p. 1065.
Direct Supply Co., The, Martinsburg, W. Va., and New York, N. Y. Certain named articles of clothing. No. 88,742; Oct. 22; Gaz. vol. 183; p. 1027.
Dixie Cotton Felt Mattress Company, Chicago, Ill. Mattresses, bed box springs, and pillows. No. 85,420; Feb. 20; Gaz. vol. 175; p. 837.
Dixon Springs Hotel Company, Dixon Springs, Ill. Drinking-water. No. 89,448; Dec. 17; Gaz. vol. 185; p. 823.
Dobrowsky, Frank R., Redding, Cal. Jewelry goods for personal wear. No. 86,519; May 14; Gaz. vol. 178; p. 587.
Dodge, M. Hartley, Passaic, N. J., and New York, N. Y. Explosives, firearms, equipments, and projectiles. No. 87,177; July 2; Gaz. vol. 180; p. 316.
Dodge Publishing Company, New York, N. Y. Calendars. Nos. 84,945–6; Jan. 16; Gaz. vol. 174; p. 823.
Dodge Publishing Company, New York, N. Y. Calendars. Nos. 86,894–5; June 11; Gaz. vol. 179; p. 568.
Dodson, James G., Americus, Ga. Remedy for diseases of the liver. No. 88,254; Sept. 10; Gaz. vol. 182; p. 504.
Doege, Albert, Leavenworth, Kans. Laundry starch. No. 88,857; Oct. 29; Gaz. vol. 183; p. 1302.
Dolan Mercantile Company, The, Atchison, Kans. Certain foods. No. 87,178; July 2; Gaz. vol. 180; p. 316.
Dolby, Jesse H., Elgin, Ill. Photographic cameras. No. 86,579; May 21; Gaz. vol. 178; p. 879.
Dolphin, Byron J., Seattle, Wash. Peanut-butter. No. 86,040; Apr. 9; Gaz. vol. 177; p. 519.
Doman, Louis G., New York, N. Y. Cream for the skin. No. 85,901; Mar. 26; Gaz. vol. 176; p. 1066.
Domecq, Pedro, Jerez de la Frontera, Spain. Brandies. No. 89,632; Dec. 31; Gaz. vol. 185; p. 1374.

Alphabetical list of registrants of trade-marks—Continued.

Donahue, Edward, Kenosha, Wis. Wood-polish. No. 86,580; May 21; Gaz. vol. 178; p. 879.
Donovan & Spang, St. Paul, Minn. Laxative remedies. No. 85,330; Feb. 13; Gaz. vol. 175; p. 537.
Dooley, Smith & Company, New York, N. Y. Canned pears. No. 86,659; May 21; Gaz. vol. 178; p. 881.
Dooley, Smith & Company, New York, N. Y. Canned pears. No. 86,896; June 11; Gaz. vol. 179; p. 568.
Dooley, Smith & Company, New York, N. Y. Canned pears. No. 87,435; July 16; Gaz. vol. 180; p. 874.
Dörrenberg Söhne, Ed., Ründeroth, Germany. Steel bars, plates, castings, forgings, and ingots. No. 87,052; June 25; Gaz. vol. 179; p. 1101.
Douglas Candy Co., St. Joseph, Mo. Chocolate creams. No. 86,390; May 7; Gaz. vol. 178; p. 314.
Dover Stamping and Manufacturing Company, Cambridge, Mass. Sieves for ash-barrels. No. 88,559; Oct. 1; Gaz. vol. 183; p. 213.
Dowd & Co., J. C., New York, N. Y. Hat and clothes brushes. No. 88,668; Oct. 15; Gaz. vol. 183; p. 777.
Dowd & Co., J. C., New York, N. Y. Certain frames, not including precious metal, for mirrors and pictures. No. 88,859; Oct. 29; Gaz. vol. 183; p. 1302.
Dowd & Co., J. C., New York, N. Y. Manicure sets. No. 89,633; Dec. 31; Gaz. vol. 185; p. 1374.
Downey, Alleen J., San Gabriel, Cal. Remedies for rheumatism. No. 89,233; Dec. 3; Gaz. vol. 185; p. 243.
Downing, Louis L., Cumberland, Md. Bread. No. 85,651; Mar. 5; Gaz. vol. 176; p. 269.
Dr. Arthur Erhard Gesellschaft mit beschränkter Haftung, Berlin, Germany. Remedy for certain diseases. No. 86,794; June 4; Gaz. vol. 179; p. 281.
Dr. Bayer és társa, Budapest, Hungary. Salve. No. 88,454; Sept. 24; Gaz. vol. 182; p. 965.
Dr. Fritz Müller, Basler chemisch-technisches Laboratorium, Basel, Switzerland. Composition to finish or dress textiles. No. 86,232; Apr. 23; Gaz. vol. 177; p. 1040.
Dr. Nicanor Bolet, Inc., New York, N. Y. Tocological medicines. Nos. 89,196–7; Nov. 19; Gaz. vol. 184; p. 799.
Dr. Partridge Medicine Co., St. Paul, Minn. Certain medicines and pharmaceutical preparations. No. 87,561; July 23; Gaz. vol. 180; p. 1134.
Dr. Peter Fahrney & Sons Co., Chicago, Ill. Tonic and blood remedy. No. 85,853; Mar. 26; Gaz. vol. 176; p. 1065.
Dralle, Georg, Hamburg, Germany. Hair-water. No. 86,979; June 18; Gaz. vol. 179; p. 847.
Dresdner Reiseutensilien- & Lederwarenfabrik G. L. Lippold, Dresden, Germany. Traveling-bags and trunks. No. 85,331; Feb. 13; Gaz. vol. 175; p. 537.
Drolet, Mederic, Kankakee, Ill. Laundry washing-machines. No. 88,560; Oct. 1; Gaz. vol. 183; p. 213.
Droste & Co., Haarlem, Netherlands. Cocoa. No. 86,288; Apr. 30; Gaz. vol. 177; p. 1291.
Drucker, August E., San Francisco, Cal. Tooth-powder. No. 84,730; Jan. 2; Gaz. vol. 174; p. 283.
Dry-Fut Insole Mfg. Co., New York, N. Y. Insoles. No. 89,551; Dec. 24; Gaz. vol. 185; p. 1049.
Dryfoos, J. Emil, New York, N. Y. Coats, trousers, hats, and shirts. No. 87,611; July 30; Gaz. vol. 180; p. 1388.
Du Mond, William R., New York, N. Y. Water-purifying and steam-boiler-cleaning compound. No. 86,791; June 4; Gaz. vol. 179; p. 281.
Du Pont, Francis I., Wilmington, Del. Triangular rulers. No. 85,850; Mar. 26; Gaz. vol. 176; p. 1065.
Dubler, Herman, New York, N. Y. Crab-meat. No. 85,090; Jan. 30; Gaz. vol. 174; p. 1212.
Duché & Sons, T. M., New York, N. Y. Glue and gelatin. No. 85,955; Apr. 2; Gaz. vol. 177; p. 235.
Duck, Charles E., Baltimore, Md. Preparation for the skin. No. 86,391; May 7; Gaz. vol. 178; p. 314.
Duckman, Moses, Brooklyn, N. Y. Remedy for epilepsy. No. 84,732; Jan. 2; Gaz. vol. 174; p. 283.
Dudley & Company, U. H., New York, N. Y. Dates. No. 89,234; Dec. 3; Gaz. vol. 185; p. 243.
Dukehart, Harry P., Baltimore, Md. Headache remedy. No. 87,528; July 23; Gaz. vol. 180; p. 1133.
Duluth-Superior Milling Company, Duluth, Minn. Wheat-flour. No. 87,053; June 25; Gaz. vol. 179; p. 1102.
Duluth-Superior Milling Company, Duluth, Minn. Wheat-flour. No. 88,255; Sept. 10; Gaz. vol. 182; p. 504.
Duluth-Superior Milling Company, Duluth, Minn. Wheat-flour. No. 88,858; Oct. 29; Gaz. vol. 183; p. 1302.
Duluth-Superior Milling Company, Duluth, Minn. Wheat-flour. Nos. 89,016–17; Nov. 5; Gaz. vol. 184; p. 281.
Dumaine, Frederic C., *et al.*, trustees. (See Amoskeag Manufacturing Company, assignor.)
Duncan, Charles H., New York, N. Y. Fans for personal use. No. 86,289; Apr. 30; Gaz. vol. 177; p. 1291.
Dunham Co., Berea, Ohio. Land, snow, lawn, &c., rollers. Nos. 87,864–5; Aug. 13; Gaz. vol. 181; p. 535.
Dunham, Edward C., Dunham, La. Remedy for syphilis, gonorrhea, and gleet. No. 84,947; Jan. 16; Gaz. vol. 174; p. 823.
Dunkerson & Co., Inc., Louisville, Ky. Leaf-tobacco. No. 87,735; Aug. 6; Gaz. vol. 181; p. 260.
Dunlap Manufacturing Company, Bloomington, Ill. Dust-cloths. No. 87,736; Aug. 6; Gaz. vol. 181; p. 260.
Dunn Edge Tool Company, Oakland, Me. Hay-knives, grass-shears, axes, &c. No. 87,612; July 30; Gaz. vol. 180; p. 1388.
Dunn, Edith E., Woodfield, Uppingham, England. Hat-pins. No. 86,290; Apr. 30; Gaz. vol. 177; p. 1291.
Dunn, Michael J., Pottsville, Pa. Disinfectant and cleaner for carpets, clothing, &c. No. 89,235; Dec. 3; Gaz. vol. 185; p. 243.
Duplex Adding Machine Company, The, St. Louis, Mo. Adding and calculating machines. No. 86,792; June 4; Gaz. vol. 179; p. 281.
Durant, Annie C., Cumberland, Me., assignor to Cyprez Remedy Co., New York, N. Y. Remedy for hay-fever and asthma. No. 86,392; May 7; Gaz. vol. 178; p. 314.
Durato Asbestos Flooring Co., Ltd., Westminster, London, England. Jointless flooring. No. 89,178; Nov. 19; Gaz. vol. 184; p. 799.
Durbrow, Walter, New York, N. Y. Poultry-litter. No. 89,449; Dec. 17; Gaz. vol. 185; p. 823.
Durham Duplex Razor Company, New York, N. Y. Razors. No. 86,041; Apr. 9; Gaz. vol. 177; p. 519.
Durham Duplex Razor Company, New York, N. Y. Razors, razor-blades and holders. No. 88,170; Sept. 3; Gaz. vol. 182; p. 243.
Dutch Canning & Pickling Co., Cedar Grove, Wis. Canned peas and corn. No. 89,018; Nov. 5; Gaz. vol. 184; p. 281.
Duval, Alfred, Saratoga Springs, N. Y. Cigars. No. 85,421; Feb. 20; Gaz. vol. 175; p. 837.
Dwinell-Wright Company, Boston, Mass. Coffee. No. 85,956; Apr. 2; Gaz. vol. 177; p. 235.
Dwinell-Wright Company, Boston, Mass. Coffee substitute. No. 88,472; Sept. 24; Gaz. vol. 182; p. 966.
Dwinell-Wright Company, Boston, Mass. Coffee. No. 89,236; Dec. 3; Gaz. vol. 185; p. 243.
Dyneto Electric Company, Elbridge, N. Y. Certain eletric apparatus. No. 85,422; Feb. 20; Gaz. vol. 175; p. 837.
E. Greenfield's Sons, New York, N. Y. Chocolates. No. 89,652; Dec. 31; Gaz. vol. 185; p. 1374.
E. Ingraham Co., Bristol, Conn. Clocks. No. 87,455; July 16; Gaz. vol. 180; p. 874.
E. Jenckes Manufacturing Company, Worcester, Mass. Belt-hooks. No. 86,064; Apr. 9; Gaz. vol. 177; p. 520.
E. Myers Lye Co., St. Louis, Mo. Lye. No. 86,148; Apr. 16; Gaz. vol. 177; p. 766.
E. Sutro & Son Company, Philadelphia, Pa. Hosiery. No. 85,018; Jan. 16; Gaz. vol. 174; p. 825.
E. Sutro and Son Company, Philadelphia, Pa. Hosiery. No. 88,802; Oct. 22; Gaz. vol. 183; p. 1029.
E. Wertheimer & Cie., Paris, France. Toilet perfumes, face-powder, &c. No. 88,540; Sept. 24; Gaz. vol. 182; p. 968.
E. A. Bromund Company, New York, N. Y. Laundry-starch polish. No. 87,419; July 16; Gaz. vol. 180; p. 873.
E. A. Bromund Company, New York, N. Y. Beeswax. No. 87,520; July 23; Gaz. vol. 180; p. 1133.
E. A. Pflueger Company, The, Akron, Ohio. Fishing-tackle. No. 87,478; July 16; Gaz. vol. 180; p. 875.
E. C. Atkins & Company, Indianapolis, Ind. Saws, knives, and machetes. No. 86,120; Apr. 16; Gaz. vol. 177; p. 765.
E. E. Taylor Co., Boston, Mass. Leather boots and shoes. No. 84,768; Jan. 2; Gaz. vol. 174; p. 284.
E. M. Dickinson Ltd., Sheffield, England. Certain named knives, weapons, shears, razors, scissors, and forks. No. 88,617; Oct. 8; Gaz. vol. 183; p. 499.
E. R. Squibb & Sons, New York, N. Y. Certain pharmaceutical products. No. 86,107; Apr. 9; Gaz. vol. 177; p. 521.
Eagle Pencil Company, New York, N. Y. Lead-pencils. No. 86,897; June 11; Gaz. vol. 179; p. 568.
Eagle Pencil Company, New York, N. Y. Lead-pencils and fountain-pens. No. 89,237; Dec. 3; Gaz. vol. 185; p. 243
Eagle Pencil Company, New York, N. Y. Lead-pencils. No. 89,450; Dec. 17; Gaz. vol. 185; p. 823.
Eagle Tannery, San Francisco, Cal. Harness, saddle, and sole leather. No. 85,734; Mar. 12; Gaz. vol. 176; p. 521.
Earnsdale Worsted Company, Clinton, Mass. Outer suits. No. 86,042; Apr. 9; Gaz. vol. 177; p. 519.
Earnshaw Knitting Company, Chicago, Ill. Undershirts. No. 85,801; Mar. 19; Gaz. vol. 176; p. 745.
Earp-Thomas Farmogerm Company, Jersey City and Bloomfield, N. J. Cultures of soil-bacteria. No. 85,332; Feb. 13; Gaz. vol. 175; p. 537.
East Grand Forks Bwg. Co., East Grand Forks, Minn. Beer. No. 89,238; Dec. 3; Gaz. vol. 185; p. 243.
Eastern Drug Co., Bakersfield, Cal. Remedy for gonorrhea. No. 85,333; Feb. 13; Gaz. vol. 175; p. 537.
Eastman Kodak Co., Rochester, N. Y. Certain photographic supplies. No. 85,423; Feb. 20; Gaz. vol. 175; p. 837.
Eastman Kodak Company, Rochester, N. Y. Chemical for treating photographs. No. 86,393; May 7; Gaz. vol. 178; p. 314.

Alphabetical list of registrants of trade-marks—Continued.

Eaton, Albert M., Waltham, Mass. Writing, printing, wrapping, &c., paper. No. 89,634; Dec. 31; Gaz. vol. 185; p. 1374.
Eaton, Crane & Pike Company, Pittsfield, Mass. Paper, envelops, tablets, cards, and cardboard. No. 89,451; Dec. 17; Gaz. vol. 185; p. 823.
Eaton Milling & Elevator Co., The, Eaton, Colo. Wheat-flour. No. 85,092; Jan. 30; Gaz. vol. 174; p. 1212.
Eckhardt, George, Chicago, Ill. Pudding-powders. No. 85,232; Feb. 6; Gaz. vol. 175; p. 259.
Eclair Film Company, Fort Lee, N. J. Moving-picture films. No. 88,171; Sept. 3; Gaz. vol. 182; p. 243.
Economic Machinery Company, Worcester, Mass. Labeling-machines and parts thereof. No. 89,019; Nov. 5; Gaz. vol. 184; p. 281.
Economy Lubricating Co., Boston, Mass. Lubricating-grease. No. 88,561; Oct. 1; Gaz. vol. 183; p. 213.
Ed Planté, Sucesores Francisco Sabio y Cia., Habana, Cuba. Toilet powders. No. 86,448; May 7; Gaz. vol. 178; p. 315.
Edgar Allen American Manganese Steel Company, Augusta, Me., and Chicago, Ill. Manganese-steel castings. No. 86,261; Apr. 30; Gaz. vol. 177; p. 1291.
Edible Products Company, Jersey City, N. J. Cotton-seed oil and oleo-stearin composition. No. 89,020; Nov. 5; Gaz. vol. 184; p. 282.
Edison, Thomas A., Incorporated, West Orange, N. J. Motion-picture-exhibiting apparatus and films. No. 89,542; Dec. 24; Gaz. vol. 185; p. 1049.
Edison, Thomas A., Incorporated, West Orange, N. J. Primary batteries and parts thereof. No. 89,543; Dec. 24; Gaz. vol. 185; p. 1049.
Edlis Barbers Sup. Co., The, Pittsburgh, Pa. Razors. No. 88,618; Oct. 8; Gaz. vol. 183; p. 499.
Edson, Moore & Co., Detroit, Mich. Hosiery. No. 86,043; Apr. 9; Gaz. vol. 177; p. 519.
Edtbauer, Edmund, Chicago, Ill. Automatic weighing-scales. No. 89,452; Dec. 17; Gaz. vol. 185; p. 823.
Edwards, Godfrey, Liverpool, England. Toilet preparations to prevent chafing and chapping. No. 85,094; Jan. 30; Gaz. vol. 174; p. 1212.
Edwards & Loomis Co., Chicago, Ill. Horse feed. No. 85,093; Jan. 30; Gaz. vol. 174; p. 1212.
Edwards, Thomas R., Chanute, Kans. Remedy for catarrh. No. 88,860; Oct. 29; Gaz. vol. 183; p. 1302.
Edwin C. Burt Company, Brooklyn, N. Y. Boots, shoes, and slippers. No. 84,726; Jan. 2; Gaz. vol. 174; p. 283.
Edwin C. Burt Company, New York and Brooklyn, N. Y. Leather boots, shoes, and slippers. No. 87,160; July 2; Gaz. vol. 180; p. 315.
Edwin E. Kraushar Co., New York, N. Y. Candy whistles. No. 85,259; Feb. 6; Gaz. vol. 175; p. 260.
Edwin H. Fitler Co., Philadelphia, Pa. Cordage. No. 87,616; July 30; Gaz. vol. 180; p. 1388.
Egypt Canning Company, Egypt, N. Y. Canned vegetables and fruits. No. 88,861; Oct. 29; Gaz. vol. 183; p. 1302.
Ehler, Arthur J., West Alexandria, Ohio. Poultry drinking-pans. No. 89,348; Dec. 10; Gaz. vol. 185; p. 519.
Eilers Music Company, San Francisco, Cal. Pianos. No. 85,652; Mar. 5; Gaz. vol. 176; p. 269.
Eimer & Amend, New York, N. Y. Sphygmomanometers. No. 87,054; June 25; Gaz. vol. 179; p. 1102.
Eisenberg, Morris, New York, N. Y. Cream-cheese. No. 86,133; Apr. 16; Gaz. vol. 177; p. 765.
Eisenman Company, Charles, Cleveland Ohio. Certain clothing. No. 87,055; June 25; Gaz. vol. 179; p. 1102.
Eisenmann & Co., London, England. Toys. Nos. 87,179–81; July 2; Gaz. vol. 180; p. 316.
Eisenstadt Manufacturing Company, St. Louis, Mo. Watches, clocks, watch and clock movements and cases. No. 84,733; Jan. 2; Gaz. vol. 174; p. 283.
Eitingon, Waldemar, New York, N. Y. Calfskins. No. 85,802; Mar. 19; Gaz. vol. 176; p. 745.
Elder-Harrison Company, Baltimore, Md. Gin. No. 88,069; Aug. 27; Gaz. vol. 181; p. 1067.
Elder-Harrison Company, Baltimore, Md. Sherry-wine. No. 88,070; Aug. 27; Gaz. vol. 181; p. 1067.
Elder-Harrison Company, Baltimore, Md. Cocktails. No. 88,256; Sept. 10; Gaz. vol. 182; p. 504.
Electrene Company, The, New York, N. Y. Fire-extinguishers. No. 87,985; Aug. 20; Gaz. vol. 181; p. 815.
Electric Hose & Rubber Co., Wilmington, Del. Rubber hose. No. 88,474; Sept. 24; Gaz. vol. 182; p. 966.
Electric Respirone Company, The, Cleveland, Ohio. Electric therapeutic appliance. No. 85,335; Feb. 13; Gaz. vol. 175; p. 537.
Electric Storage Battery Company, The, Philadelphia, Pa. Storage-battery plates. No. 87,986; Aug. 20; Gaz. vol. 181; p. 815.
Electricity Magazine Corporation, Chicago, Ill. Monthly magazine. No. 87,182; July 2; Gaz. vol. 180; p. 316.
Electrolytic Art Metal Company, Trenton, N. J. Certain articles electrically treated with precious metal. No. 85,567; Feb. 27; Gaz. vol. 175; p. 1093.
Elgin Giant Watch Case Co., Elgin, Ill. Watchcases. No. 88,475; Sept. 24; Gaz. vol. 182; p. 966.
Elgin National Watch Company, Elgin, Ill. Watch-movements. No. 88,257; Sept. 10; Gaz. vol. 182; p. 504.
Eli Lilly and Company, Indianapolis, Ind. Ampoules containing hypodermatic medicaments. No. 87,780; Aug. 6; Gaz. vol. 181; p. 261.
Elizabeth Chemical Company, The, Brooklyn, N. Y. Salve and certain toilet preparations. No. 84,734; Jan. 2; Gaz. vol. 174; p. 283.
Elizabeth City Hosiery Co., Elizabeth City, N. C. Hosiery. No. 87,056; June 25; Gaz. vol. 179; p. 1102.
Elizabeth City Hosiery Co., Elizabeth City, N. C. Hosiery. No. 87,437; July 16; Gaz. vol. 180; p. 874.
Ellenbogen & Sons, M. H., Paterson, N. J., and New York, N. Y. Shirts. No. 84,948; Jan. 16; Gaz. vol. 174; p. 823.
Ellerbe, Alexander C., Florence, S. C. Hair-tonic. No. 84,902; Jan. 9; Gaz. vol. 174; p. 582.
Ellet-Kendall Shoe Company, Kansas City, Mo. Leather boots, shoes, and leggings. No. 85,957; Apr. 2; Gaz. vol. 177; p. 235.
Elliott-Fisher Company, Harrisburg, Pa. Type-writing machines, combined writing-adding machines, and platens. No. 88,476; Sept. 24; Gaz. vol. 182; p. 966.
Elliott, George R., Stockton, Cal. Tooth paste and powder. No. 87,438; July 16; Gaz. vol. 180; p. 874.
Elmo Sisters, Philadelphia, Pa. Massage-cream, rouges, powder-pastes, &c. No. 87,529; July 23; Gaz. vol. 180; p. 1133.
Elmore Fertilizer Company, Tallassee, Ala. Fertilizers. No. 88,071; Aug. 27; Gaz. vol. 181; p. 1068.
Eloesser-Heynemann Co., San Francisco, Cal. Overalls. No. 88,743; Oct. 22; Gaz. vol. 183; p. 1027.
Ely & Walker Dry Goods Co., St. Louis, Mo. Work shirts and trousers. No. 86,520; May 14; Gaz. vol. 178; p. 587.
Ely & Walker Dry Goods Company, St. Louis, Mo. Certain fancy goods and notions. No. 86,981; June 18; Gaz. vol. 179; p. 847.
Ely & Walker Dry Goods Co., St. Louis, Mo. Overalls. No. 89,635; Dec. 31; Gaz. vol. 185; p. 1374.
Emerson-Brantingham Company, Rockford, Ill. Mowing-machines. No. 86,044; Apr. 9; Gaz. vol. 177; p. 519.
Emil Weissbrod & Sons, Inc., Greenfield, Mass. Card-cases and bill-folds. No. 87,694; July 30; Gaz. vol. 180; p. 1390.
Empire Bottle & Supply Company, New York, N. Y. Glass bottles. No. 84,824; Jan. 9; Gaz. vol. 174; p. 579.
Empire Brass Manufacturing Co., The, Cleveland, Ohio. Electric lamps. No. 87,987; Aug. 20; Gaz. vol. 181; p. 815.
Empire Iron and Steel Company, Niles, Ohio. Metal ceilings, side walls, and skylights. No. 86,793; June 4; Gaz. vol. 179; p. 281.
Empire Notion Co., New York, N. Y. Certain fancy goods. No. 85,233; Feb. 6; Gaz. vol. 175; p. 259.
Empire Rubber Manufacturing Company, Trenton, N. J.; Chicago, Ill.; New York, N. Y., and Boston, Mass. Cotton rubber-lined hose. No. 85,568; Feb. 27; Gaz. vol. 175; p. 1093.
Empire Shellac Company, Boston, Mass. Varnishes and varnish-gums. Nos. 85,902–3; Mar. 26; Gaz. vol. 176; p. 1066.
Empire State Dairy Company, New York, N. Y. Fermented milk. No. 89,021; Nov. 5; Gaz. vol. 184; p. 282.
Empire State Flour Mills, Syracuse, N. Y. Wheat-flour. No. 89,544; Dec. 24; Gaz. vol. 185; p. 1049.
Empire State Flour Mills, Syracuse, N. Y. Wheat-flour. Nos. 89,636–7; Dec. 31; Gaz. vol. 185; p. 1374.
Empire State Wine Co., Penn Yan, N. Y. Sparkling wine. No. 85,851; Mar. 26; Gaz. vol. 176; p. 1065.
Empire Tire Company, Trenton and Newark, N. J.; Philadelphia, Pa.; Chicago, Ill.; Detroit, Mich.; Indianapolis, Ind.; Kansas City, Mo.; New York, N. Y., and Atlanta, Ga. Pneumatic tires. No. 87,866; Aug. 13; Gaz. vol. 181; p. 535.
Empire Tire Company, Trenton and Newark, N. J.; Philadelphia, Pa.; Chicago, Ill.; Detroit, Mich.; Indianapolis, Ind.; Kansas City, Mo.; New York, N. Y., and Atlanta, Ga. Brake-liners. Nos. 88,172–3; Sept. 3; Gaz. vol. 182; p. 243.
Empress Manufacturing Company, Newark, N. J. Stove-polish. No. 88,072; Aug. 27; Gaz. vol. 181; p. 1068.
Engel, Jacob A., Syracuse, N. Y. Fertilizer. No. 85,735; Mar. 12; Gaz. vol. 176; p. 521.
Englander Spring Bed Company, New York, N. Y. Spring-mattresses, couch-beds, divans, &c. No. 86,134; Apr. 16; Gaz. vol. 177; p. 765.
Enteronol Company, The, Tempe, Ariz., and Oswego, N. Y. Remedy in tablet form for certain diseases. No. 85,707; Mar. 5; Gaz. vol. 176; p. 271.
Enterprise Broom Company, Chicago, Ill. Brooms. No. 85,336; Feb. 13; Gaz. vol. 175; p. 537.
Enterprise Enamel Co., The, Bellaire, Ohio. Enameled metal kitchen-ware. No. 86,581; May 21; Gaz. vol. 178; p. 879.
Enterprise Enamel Co., The, Bellaire, Ohio. Certain named enamel ware. No. 88,619; Oct. 8; Gaz. vol. 183; p. 499.
Enterprise Manufacturing Company of Pennsylvania, The, Philadelphia, Pa. Certain kinds of cutlery. No. 85,904; Mar. 26; Gaz. vol. 176; p. 1066.
Entertainment Publishing Co., New York, N. Y. Monthly magazine. No. 85,569; Feb. 27; Gaz. vol. 175; p. 1094.
Eppinger, Louis J., Detroit, Mich. Games, toys, fishing-lines, &c. No. 88,174; Sept. 3; Gaz. vol. 182; p. 243.

Alphabetical list of registrants of trade-marks—Continued.

Eppstein, Milton L., Fort Worth, Tex. Beer. No. 87,738; Aug. 6; Gaz. vol. 181; p. 260.
Eppstein, Milton L., Fort Worth, Tex. Wines. No. 88,744; Oct. 22; Gaz. vol. 183; p. 1027.
Equity Watch Company, Boston, Mass. Watch-movements, watches, and parts thereof. No. 84,735; Jan. 2; Gaz. vol. 174; p. 283.
Ern & Co., Friedr., Weyer, near Solingen, Germany. Razors. No. 88,621; Oct. 8; Gaz. vol. 183; p. 499.
Ernecke & Salmstein Company, Chicago, Ill. Label-pastes. No. 89,179; Nov. 19; Gaz. vol. 184; p. 799.
Erste Karlsruher Parfümerie- & Toiletteseifen-Fabrik F. Wolff & Sohn, Baden and Karlsruhe, Germany. Perfumery. No. 85,570; Feb. 27; Gaz. vol. 175; p. 1094.
Esperanza Fruit Co., Palatka, Fla. Oranges, lemons, grape-fruit, tangerines, and limes. No. 85,095; Jan. 30; Gaz. vol. 174; p. 1212.
Esterbrook Steel Pen Man'f'g. Co., Camden, N. J. Writing-pens. Nos. 87,184–5; July 2; Gaz. vol. 180; p. 316.
Esterbrook Steel Pen Mfg. Co., Camden, N. J. Gold and fountain pens. No. 87,530; July 23; Gaz. vol. 180; p. 1133.
Estes, Llewellyn W., Washington, D. C. Remedy used as a blood-purifier and liver-regulator. No. 84,949; Jan. 16; Gaz. vol. 174; p. 823.
Euclid Optical Company, The, Cleveland, Ohio. Certain optical and measuring instruments. No. 85,234; Feb. 6; Gaz. vol. 175; p. 259.
Euler & Co., Franz, New York, N. Y. Parchment-tissue. No. 88,477; Sept. 24; Gaz. vol. 182; p. 966.
Eureka Study System. (See Todd, John T., assignor.)
Eureka Water Heater Co., Chicago, Ill. Hot-water heaters and gas-burners for heating purposes. No. 86,521; May 14; Gaz. vol. 178; p. 587.
Evan W. Hook & Co., Inc., Baltimore, Md. Certain food. No. 89,032; Nov. 5; Gaz. vol. 184; p. 282.
Everett & Treadwell Co., Kingston, N. Y. Canned vegetables and fruits. No. 87,867; Aug. 13; Gaz. vol. 181; p. 536.
Excello Feed Milling Company, St. Joseph, Mo. Stock food. No. 86,394; May 7; Gaz. vol. 178; p. 314.
Excelsior Shoe Company, The, Portsmouth, Ohio. Leather boots and shoes. No. 87,739; Aug. 6; Gaz. vol. 181; p. 260.
Exchange Cotton and Linseed Meal Company, Kansas City, Mo. Cotton-seed meal and cake. No. 85,424; Feb. 20; Gaz. vol. 175; p. 837.
F. A. Stuart Company, Marshall, Mich. Dyspepsia-tablets, calcium wafer compounds, charcoal lozenges, &c. No. 85,199; Jan. 30; Gaz. vol. 174; p. 1215.
F. A. Weck Co., The, San Francisco, Cal. Headache-powders. No. 86,847; June 4; Gaz. vol. 179; p. 283.
F. B. Chamberlain Co., St. Louis, Mo. Certain flours. No. 85,072; Jan. 30; Gaz. vol. 174; p. 1211.
F. B. Washburn & Co., Brockton, Mass. Candy. No. 85,697; Mar. 5; Gaz. vol. 176; p. 270.
F. E. Royston & Co., Aurora, Ill. Raisins, currants, and canned vegetables. No. 89,502; Dec. 17; Gaz. vol. 185; p. 825.
F. F. Dalley Co. of Hamilton, Limited, Hamilton, Ontario, Canada. Stove-polish. No. 85,733; Mar. 12; Gaz. vol. 176; p. 521.
F. G. Klein Co., Burlington, Wis. Certain non-alcoholic beverages. No. 85,663; Mar. 5; Gaz. vol. 176; p. 269.
F. G. Klein Co., Burlington, Wis. Mineral, still, and spring waters and tonic beverages. No. 88,002; Aug. 20; Gaz. vol. 181; p. 816.
F. H. Messenger Co., Auburn, N. Y. Oil paints, varnishes, and stains. No. 88,322; Sept. 10; Gaz. vol. 182; p. 505.
F. H. Messenger Co., Auburn, N. Y. Varnishes and stains. No. 88,323; Sept. 10; Gaz. vol. 182; p. 505.
F. M. Hoyt Shoe Company, Manchester, N. H. Leather boots and shoes. No. 86,532; May 14; Gaz. vol. 178; p. 588.
F. O. Hilfiker Co., Syracuse, N. Y. Spraying device. No. 84,742; Jan. 2; Gaz. vol. 174; p. 284.
F. O. Pierce Co., New York, N. Y. Cold-water paint. No. 86,731; May 28; Gaz. vol. 178; p. 1148.
F. W. King Optical Company, The, Cleveland, Ohio. Lenses for spectacles. No. 89,377; Dec. 10; Gaz. vol. 185; p. 520.
F. W. Klinger & Langbein Company, Philadelphia, Pa. Artificial-fly books for carrying fishing-flies. No. 85,359; Feb. 13; Gaz. vol. 175; p. 538.
F. W. Thurston Company, Chicago, Ill. Antiseptic cleaning compound. No. 85,524; Feb. 20; Gaz. vol. 175; p. 840.
Faber, A. W., Stein and Berlin, Germany. Pencils. No. 85,852; Mar. 26; Gaz. vol. 176; p. 1065.
Faber, Firm of A. W., Stein, Germany. Stationery supplies. Nos. 86,522–3; May 14; Gaz. vol. 178; p. 587.
Faber, Firm of A. W., Stein, Germany. Certain stationery supplies. No. 86,582; May 21; Gaz. vol. 178; p. 879.
Faber, Firm of A. W., Stein, Germany. Pencils. No. 86,583; May 21; Gaz. vol. 178; p. 879.
Faber, Firm of A. W., Stein, Germany. Pencils. No. 86,898; June 11; Gaz. vol. 179; p. 568.
Faber, Eberhard, New York, N. Y. Pencils, penholders, and rubber erasers. No. 86,291; Apr. 30; Gaz. vol. 177; p. 1292.
Faber, Eberhard, New York, N. Y. Lead-pencils. No. 89,239; Dec. 3; Gaz. vol. 185; p. 243.
Fabrik pharmaceutischer Präparate Karl Engelhard, Frankfort-on-the-Main, Germany. Wound-powder. No. 86,982; June 18; Gaz. vol. 179; p. 847.
Fachmann, Hermann W., Indianapolis, Ind. Games. No. 87,186; July 2; Gaz. vol. 180; p. 316.
Fairbanks, Morse & Company, Chicago, Ill. Engines, pumps, and feed-grinders. No. 87,988; Aug. 20; Gaz. vol. 181; p. 815.
Fairchild Bros. & Foster, New York, N. Y. Medicinal preparation. No. 85,096; Jan. 30; Gaz. vol. 174; p. 1212.
Fairchild Bros. & Foster, New York, N. Y. Certain pharmaceutical preparations. No. 89,241; Dec. 3; Gaz. vol. 185; p. 244.
Fairview Fluor Spar & Lead Company, Fairview Landing, Ill. Ground fluor-spar. No. 88,073; Aug. 27; Gaz. vol. 181; p. 1068.
Fall River Bleachery, Fall River, Mass. Cotton piece goods. No. 86,292; Apr. 30; Gaz. vol. 177; p. 1292.
Fall River Bleachery, Fall River, Mass. Cotton piece goods. No. 89,453; Dec. 17; Gaz. vol. 185; p. 823.
Fallini, Santino, Novinger, Mo. Germicides and tooth-ache remedies. No. 89,638; Dec. 31; Gaz. vol. 185; p. 1374.
Farbenfabriken of Elberfeld Company, New York, N. Y. Certain chemical. No. 86,048; Apr. 9; Gaz. vol. 177; p. 520.
Farbenfabriken of Elberfeld Company, New York, N. Y. Antiarthriticum. No. 86,049; Apr. 9; Gaz. vol. 177; p. 520.
Farbenfabriken of Elberfeld Company, New York, N. Y. Disinfectant. No. 86,212; Apr. 23; Gaz. vol. 177; p. 1039.
Farbenfabriken of Elberfeld Company, New York, N. Y. Sedative. No. 86,395; May 7; Gaz. vol. 178; p. 314.
Farbenfabriken of Elberfeld Company, New York, N. Y. Oil for finishing leather. No. 87,058; June 25; Gaz. vol. 179; p. 1102.
Farbenfabriken of Elberfeld Company, New York, N. Y. Sedative and hypnotic. No. 87,327; July 9; Gaz. vol. 180; p. 597.
Farbenfabriken of Elberfeld Company, New York, N. Y. Coal-tar dyes. No. 89,454; Dec. 17; Gaz. vol. 185; p. 823.
Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany. Carbohydrate for diabetes. No. 87,187; July 2; Gaz. vol. 180; p. 316.
Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany. Internal antiseptic. No. 87,188; July 2; Gaz. vol. 180; p. 316.
Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany. Artificially-digested meat. No. 88,403; Sept. 17; Gaz. vol. 182; p. 717.
Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany. Antipyretic, antineuralgic, and sedative. No. 88,478; Sept. 24; Gaz. vol. 182; p. 966.
Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany. Antipyretic, antineuralgic, and sedative. Nos. 88,562–4; Oct. 1; Gaz. vol. 183; p. 213.
Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany. Remedy for certain named diseases. No. 88,862; Oct. 29; Gaz. vol. 183; p. 1302.
Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany. Anti-arthriticum. No. 89,100; Nov. 12; Gaz. vol. 184; p. 545.
Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany. Tonic. No. 89,101; Nov. 12; Gaz. vol. 184; p. 545.
Faria, Joao D., Funchal, Madeira. Embroideries. No. 88,176; Sept. 3; Gaz. vol. 182; p. 244.
Farley & Loetscher Manufacturing Co., Dubuque, Iowa. Certain named construction material. No. 87,614; July 30; Gaz. vol. 180; p. 1388.
Farm & Stock Publishing Company, St. Joseph, Mo. Magazines. No. 87,531; July 23; Gaz. vol. 180; p. 1133.
Farmers' Cotton Oil & Fertilizer Co., Huntsville, Ala. Fertilizer. No. 84,950; Jan. 16; Gaz. vol. 174; p. 823.
Farmers' Cotton Oil & Fertilizer Co., Huntsville, Ala. Fertilizer. No. 85,337; Feb. 13; Gaz. vol. 175; p. 537.
Farnsworth, Eva O., New York, N. Y. Certain combination undergarment. No. 85,338; Feb. 13; Gaz. vol. 175; p. 537.
Farnum, Adeline R., San Francisco, Cal. Nasal and throat remedies. No. 85,097; Jan. 30; Gaz. vol. 174; p. 1212.
Fechheimer Kiefer Company, The, Cincinnati, Ohio. Coats, vests, trousers, and overcoats. No. 85,098; Jan. 30; Gaz. vol. 174; p. 1212.
Federal Milling Company, Lockport, N. Y. Bread. No. 86,756; May 28; Gaz. vol. 178; p. 1149.
Federal Milling Company, Lockport, N. Y. Wheat-flour. No. 87,615; July 30; Gaz. vol. 180; p. 1388.
Federal Rubber Manufacturing Co., Cudahy, Wis. Certain belting, hose, machinery packing, and non-metallic tires. No. 86,795; June 4; Gaz. vol. 179; p. 281.

Alphabetical list of registrants of trade-marks—Continued.

Federal Screens Company, The. (See Greist, Lewis T., as signor.)
Feeders' Supply Company, Kansas City, Mo. Stock feed. No. 84,951; Jan. 16; Gaz. vol. 174; p. 824.
Feinberg, Maurice M., New York, N. Y. Certain pharmaceutical preparation. No. 87,059; June 25; Gaz. vol. 179; p. 1102.
Felbel, Speyer Company, New York, N. Y. Tobacco cigarettes. No. 87,740; Aug. 6; Gaz. vol. 181; p. 260.
Fell Drug Co., Hornell, N. Y. Remedy for rheumatism, indigestion, &c. No. 88,479; Sept. 24; Gaz. vol. 182; p. 966.
Fell Drug Co., Hornell, N. Y. Pile remedy. No. 88,565; Oct. 1; Gaz. vol. 183; p. 213.
Felten - Guilleaume Carlswerk Aktien - Gesellschaft, Mulheim-on-the-Rhine, Germany. Steel wire for pianofortes, &c. No. 89,349; Dec. 10; Gaz. vol. 185; p. 520.
Fennyery, Lether J., Longmeadow, Mass. Liniment. No. 85,854; Mar. 26; Gaz. vol. 176; p. 1065.
Féret, Louis, Paris, France. Emollient. No. 85,339; Feb. 13; Gaz. vol. 175; p. 537.
Fernandez, Rodrigo, Key West, Fla. Cigars. No. 85,855; Mar. 26; Gaz. vol. 176; p. 1065.
Fernon Drug Co., Baltimore, Md. Laxative tonic. No. 87,328; July 9; Gaz. vol. 180; p. 597.
Ferris, George A., Detroit, Mich. Monthly magazine. No. 88,669; Oct. 15; Gaz. vol. 183; p. 777.
Fiebert, Louis R., New York, N. Y. Hair-tonic. No. 86,797; June 4; Gaz. vol. 179; p. 281.
Fielding, Walter C., Charlotte, N. C. Remedies for diseases of females. No. 87,868; Aug. 13; Gaz. vol. 181; p. 536.
Filsinger-Boette Shoe Co., St. Louis, Mo. Shoes and slippers. No. 86,396; May 7; Gaz. vol. 178; p. 314.
Finch, Leigh L., New York, N. Y. Medicated candies. No. 85,099; Jan. 30; Gaz. vol. 174; p. 1212.
Finn and Meyers, New York, N. Y. Silk shirtings. No. 86,213; Apr. 23; Gaz. vol. 177; p. 1039.
Finney, Thomas L., Birmingham, Ala. Syrup for beverages. No. 87,060; June 25; Gaz. vol. 179; p. 1102.
Firth-Sterling Steel Company, McKeesport, Pa. Tool-steel. No. 84,736; Jan. 2; Gaz. vol. 174; p. 283.
Fischer Brothers, Seattle, Wash. Salad-oil. No. 88,837; Oct. 29; Gaz. vol. 183; p. 1301.
Fischlein, Frederick W., New York, N. Y. Carbon-remover. No. 87,532; July 23; Gaz. vol. 180; p. 1133.
Fisher Bros. Paper Company, Fort Wayne, Ind. Wrapping-paper. No. 89,242; Dec. 3; Gaz. vol. 185; p. 244.
Fisher, Charles, San Francisco, Cal. Thread of all kinds. No. 85,426; Feb. 20; Gaz. vol. 175; p. 837.
Fisher Flouring Mills Company, Seattle, Wash. Wheat-flour. Nos. 88,258–61; Sept. 10; Gaz. vol. 182; p. 504.
Fisher Flouring Mills Company, Seattle, Wash. Wheat-flour. No. 88,404; Sept. 17; Gaz. vol. 182; p. 717.
Fisher Flouring Mills Company, Seattle, Wash. Wheat-flour. No. 88,863; Oct. 29; Gaz. vol. 183; p. 1302.
Fisher Flouring Mills Company, Seattle, Wash. Wheat-flour. No. 89,350; Dec. 10; Gaz. vol. 185; p. 520.
Fitz Gerald, Owen S., Philadelphia, Pa. Tea and imitation tea. No. 88,864; Oct. 29; Gaz. vol. 183; p. 1302.
Fitzpatrick & Draper, Troy, N. Y. Cigars. No. 89,455; Dec. 17; Gaz. vol. 185; p. 824.
Flash Chemical Co., Boston, Mass. Furniture-finish. No. 88,262; Sept. 10; Gaz. vol. 182; p. 504.
Fleischer, Tryne S., New York, N. Y. Rings. No. 85,035; Jan. 23; Gaz. vol. 174; p. 1023.
Fleischman, Julia, New York, N. Y. Face-cream. No. 85,100; Jan. 30; Gaz. vol. 174; p. 1212.
Fleming & Christian Co., Richmond, Va. Grape-juice. No. 87,869; Aug. 13; Gaz. vol. 181; p. 536.
Flemming, Robert, London, England. Saddles, saddlery, and harness. Nos. 85,427–9; Feb. 20; Gaz. vol. 175; p. 838.
Fletcher Co., Horace, New York, N. Y. Crackers and biscuits. No. 86,293; Apr. 30; Gaz. vol. 177; p. 1292.
Flint and Walling Manufacturing Co., Kendallville, Ind. Tanks. No. 88,074; Aug. 27; Gaz. vol. 181; p. 1068.
Flint and Walling Manufacturing Co., Kendallville, Ind. Windmill and other towers and parts thereof. No. 88,177; Sept. 3; Gaz. vol. 182; p. 244.
Florasel Manufacturing Company, New York, N. Y. Certain chemical preparation. No. 87,061; June 25; Gaz. vol. 179; p. 1102.
Florence Iron Works, Florence, N. J. Pipe-fittings. No. 89,243; Dec. 3; Gaz. vol. 185; p. 244.
Florette, New York, N. Y. Women's hats, hat-frames, muffs, and wraps. No. 86,294; Apr. 30; Gaz. vol. 177; p. 1292.
Florida East Coast Company, Inc., Wilmington, Del., Delespine, Fla., and Philadelphia, Pa. Oranges, grapefruit, lemons, tangerines, and cumquats. No. 86,295; Apr. 30; Gaz. vol. 177; p. 1292.
Florsheim Shoe Company, The, Chicago, Ill. Cloth and leather boots and shoes. No. 88,745; Oct. 22; Gaz. vol. 183; p. 1027.
Flower & Company, S. W., Toledo, Ohio. Seeds. Nos. 87,190–3; July 2; Gaz. vol. 180; p. 316.
Foerster, Otto H., Milwaukee, Wis. Soaps and cleansing-powders. No. 86,524; May 14; Gaz. vol. 178; p. 587.
Foery & Bauer, Brooklyn, N. Y. Shears, knives, and razors. No. 85,237; Feb. 6; Gaz. vol. 175; p. 259.
Fogg & Hires Company, Salem, N. J. Canned vegetables. No. 86,660; May 21; Gaz. vol. 178; p. 881.
Foley & Company, Chicago, Ill. Remedies for diseases of the kidney and bladder and rheumatism. No. 88,620; Oct. 8; Gaz. vol. 183; p. 499.
Foltz Grocery & Baking Company, The, Cincinnati, Ohio. Wheat-flour. No. 88,865; Oct. 29; Gaz. vol. 183; p. 1302.
Fontana & Co., New York, N. Y. Evaporated apples. No. 89,022; Nov. 5; Gaz. vol. 184; p. 282.
Fontana-Maste und- Träger-Gesellschaft m. b. H., Berlin, Germany. Extensible masts. No. 87,194; July 2; Gaz. vol. 180; p. 316.
Foot, Schulze & Co., St. Paul, Minn. Leather boots and shoes. No. 89,641; Dec. 31; Gaz. vol. 185; p. 1374.
Force, Willard B., New York, N. Y. Certain pharmaceutical preparations. No. 85,856; Mar. 26; Gaz. vol. 176; p. 1065.
Forchheimer & Co., M., Mobile, Ala. Wheat-flour. No. 85,958; Apr. 2; Gaz. vol. 177; p. 235.
Foreign Electrical Supply Co., New York, N. Y. Certain electrical apparatus and supplies. No. 87,195; July 2; Gaz. vol. 180; p. 316.
Foreign Electrical Supply Co., New York, N. Y. Electrical apparatus and supplies. No. 89,642; Dec. 31; Gaz. vol. 185; p. 1374.
Forest City Canning Co., Forest City, Iowa. Canned vegetables. No. 88,480; Sept. 24; Gaz. vol. 182; p. 966.
Forster Manufacturing Company, Dixfield, Me. Toothpicks. Nos. 87,196–7; July 2; Gaz. vol. 180; p. 316.
Förster, Martha, Cunnersdorf, Germany. Remedy for gall-stones. No. 88,566; Oct. 1; Gaz. vol. 183; p. 213.
Forster, William, Walnut Springs, Tex. Liquid compound for cleaning and polishing wood, metal, or any hard smooth surface. No. 89,546; Dec. 24; Gaz. vol. 185; p. 1049.
Fort Scott Sorghum Syrup Co., The, Fort Scott, Kans. Corn-syrup and sorghum. No. 87,440; July 16; Gaz. vol. 180; p. 874.
Fort Scott Sorghum Syrup Co., The, Fort Scott, Kans. Honey. No. 89,103; Nov. 12; Gaz. vol. 184; p. 545.
Fort Scott Sorghum Syrup Co., Fort Scott, Kans. Honey. No. 89,244; Dec. 3; Gaz. vol. 185; p. 244.
Fort Scott Sorghum Syrup Company, Fort Scott, Kans. Sorghum and sorghum compounds. No. 89,102; Nov. 12; Gaz. vol. 184; p. 545.
Fortner, Louis B., Philadelphia, Pa., and Boston, Mass. Castor-oil product employed in dyeing. No. 87,439; July 16; Gaz. vol. 180; p. 874.
Fortuna Machine Co., New York, N. Y. Annular knives. No. 86,798; June 4; Gaz. vol. 179; p. 282.
Foster Packing Company, Chicago, Ill. Condensed skimmed milk. No. 87,617; July 30; Gaz. vol. 180; p. 1388.
Fostoria Glass Specialty Company, The, Fostoria, Ohio, assignor to General Electric Company. Certain named glassware. No. 87,741; Aug. 6; Gaz. vol. 181; p. 260.
Four Co., Inc., The, Norfolk, Va. Certain foods. No. 85,101; Jan. 30; Gaz. vol. 174; p. 1212.
Fowler, D'Roy F., Melrose Park, Pa. Linings and padding for automobiles, carriages, cushions, &c. No. 85,340; Feb. 13; Gaz. vol. 175; p. 538.
Fox & Co., M. Ewing, New York, N. Y. Calcimines. No. 87,062; June 25; Gaz. vol. 179; p. 1102.
França, Eduardo F., Rio de Janeiro, Brazil. Liquid antiseptic and remedy for certain diseases. No. 85,341; Feb. 13; Gaz. vol. 175; p. 538.
Francesconi, Callisto, Lucca, Italy. Olive-oil. No. 87,063; June 25; Gaz. vol. 179; p. 1102.
Francis H. Leggett & Co., New York, N. Y. Pearl tapioca. No. 85,143; Jan. 30; Gaz. vol. 174; p. 1213.
Francis H. Leggett & Co., New York, N. Y. Chilli sauce and assorted nuts. No. 85,144; Jan. 30; Gaz. vol. 174; p. 1213.
Francis H. Leggett & Co., New York, N. Y. Baking-powder. No. 85,145; Jan. 30; Gaz. vol. 174; p. 1213.
Francis H. Leggett & Co., New York, N. Y. Sour gherkins and mint sauce. No. 85,146; Jan. 30; Gaz. vol. 174; p. 1213.
Francis H. Leggett & Co., New York, N. Y. Fiber paper. No. 85,147; Jan. 30; Gaz. vol. 174; p. 1213.
Francis H. Leggett & Co., New York, N. Y. Assorted dinner-nuts. No. 85,148; Jan. 30; Gaz. vol. 174; p. 1213.
Francis H. Leggett & Co., New York, N. Y. Imported macaroni. No. 85,149; Jan. 30; Gaz. vol. 174; p. 1214.
Francis H. Leggett & Co., New York, N. Y. Gum jar-rings. No. 85,598; Feb. 27; Gaz. vol. 175; p. 1094.
Francis H. Leggett & Co., New York, N. Y. Chocolates. No. 87,225; July 2; Gaz. vol. 180; p. 317.
Franco-American Food Company, The, Jersey City, N. J. Certain foods. No. 84,825; Jan. 9; Gaz. vol. 174; p. 579.
Frank, Cecelia A., Lincoln, Nebr. Remedies for certain diseases. No. 86,983; June 18; Gaz. vol. 179; p. 847.
Frank & Co., H. N., Philadelphia, Pa. Outer skirts and blouses. Nos. 87,618–19; July 30; Gaz. vol. 180; p. 1388.
Frank, Edwin G., Philadelphia, Pa. Washing compound. No. 85,737; Mar. 12; Gaz. vol. 176; p. 521.

Alphabetical list of registrants of trade-marks—Continued.

Frank, Edwin G., Philadelphia, Pa. Washing compound. No. 88,075; Aug. 27; Gaz. vol. 181; p. 1068.
Frank W. Swallow Post Card Co., Inc., Exeter, N. H. Postal cards. No. 85,200; Jan. 30; Gaz. vol. 174; p. 1215.
Frankfurter Musikwerke-Fabrik, J. D. Philipps & Söhne A.-G., Frankfort-on-the-Main, Germany. Certain musical instruments and supplies. No. 86,984; June 18; Gaz. vol. 179; p. 847.
Frankle, Felix, Chicago, Ill. Toilet cream and powder. No. 85,430; Feb. 20; Gaz. vol. 175; p. 838.
Franklin Knitting Mills, New York, N. Y. Neckties. No. 89,643; Dec. 31; Gaz. vol. 185; p. 1374.
Franklin MacVeagh & Company, Chicago, Ill. Grape-juice and boiled cider. No. 85,263; Feb. 6; Gaz. vol. 175; p. 260.
Frawley Brothers, New York, N. Y. Hair-tonic. No. 87,329; July 9; Gaz. vol. 180; p. 597.
Frazier Packing Company, The, Elwood, Ind. Tomato catsup and chilli sauce. No. 88,263; Sept. 10; Gaz. vol. 182; p. 504.
Fred F. Field Company, Brockton, Mass. Leather boots and shoes. No. 85,736; Mar. 12; Gaz. vol. 176; p. 521.
Fred Hollender & Co., New York, N. Y. Beer. No. 89,361; Dec. 10; Gaz. vol. 185; p. 520.
Frederick City Packing Company, Frederick, Md. Canned fruits and vegetables. No. 85,653; Mar. 5; Gaz. vol. 176; p. 269.
Frederick Osann Company, New York, N. Y. Certain kinds of machines. No. 85,830; Mar. 19; Gaz. vol. 176; p. 746.
Frederick Stearns & Co., Detroit, Mich. Remedies for neuralgia and headache. No. 88,128; Aug. 27; Gaz. vol. 181; p. 1069.
Fredonia Linseed Oil Works, Fredonia, Kans. Linseed-oil. No. 85,573; Feb. 27; Gaz. vol. 175; p. 1094.
French & Heald Co., Milford, N. H. Dressers, chiffonniers, commodes, &c. No. 86,525; May 14; Gaz. vol. 178; p. 587.
Freshour, Henry C., Bridgeport, Conn. Rubber buckets for chain-pumps. No. 85,238; Feb. 6; Gaz. vol. 175; p. 259.
Fresno Brewing Company, Fresno, Cal. Beer. No. 87,871; Aug. 13; Gaz. vol. 181; p. 536.
Fresno Fruit Growers Company, East Fresno, Cal. Fresh deciduous fruits. No. 88,405; Sept. 17; Gaz. vol. 182; p. 717.
Fresno Home Packing Company, Fresno, Cal. Dried fruits and raisins. No. 86,397; May 7; Gaz. vol. 178; p. 314.
Fresno Home Packing Company, Fresno, Cal. Raisins and dried fruits. No. 89,547; Dec. 24; Gaz. vol. 185; p. 1049.
Friedlander, Hannah L., Pittsfield, Mass. Polishing preparation. No. 87,742; Aug. 6; Gaz. vol. 181; p. 260.
Friedman Bros. & Son Neckwear Co. Inc., New York, N. Y. Neckties. No. 87,872; Aug. 13; Gaz. vol. 181; p. 536.
Friedman & Co., J. J., Dover, N. J. Ladies' outer garments. No. 85,102; Jan. 30; Gaz. vol. 174; p. 1212.
Friedrich Mauthe, G. m. b. H., Schwenningen-on-the-Neckar, Germany. Clocks. No. 85,154; Jan. 30; Gaz. vol. 174; p. 1214.
Frieling, Henry von, New York, N. Y. Salves. No. 86,497; May 7; Gaz. vol. 178; p. 317.
Frings Bros. Co., Philadelphia, Pa. Cigars. No, 89,548; Dec. 24; Gaz. vol. 185; p. 1049.
Fritch, Artemus L., Oskaloosa, Iowa. Preparations for the relief of foot troubles. No. 85,103; Jan. 30; Gaz. vol. 174; p. 1212.
Froehlich & Son, S., Newark, N. J. Whisky, brandy, gin, cocktails, and cordials. No. 89,353; Dec. 10; Gaz. vol. 185; p. 520.
Froehlich, Theodore H., New York, N. Y. Toilet powders. No. 86,398; May 7; Gaz. vol. 178; p. 314.
Fruit Juice Co., L't'd, The, Brooklyn, N. Y. Fruit-juices, &c. No. 87,873; Aug. 13; Gaz. vol. 181; p. 536.
Fruit Juice Company, Ltd., New York, N. Y. Fruit-juices, &c. No. 89,245; Dec. 3; Gaz. vol. 185; p. 244.
Fry Bros. & Company, Cincinnati, Ohio. Soda-ash. No. 88,866; Oct. 29; Gaz. vol. 183; p. 1302.
Fuld, Isaac, Baltimore, Md. Toy pool-tables. No. 86,526; May 14; Gaz. vol. 178; p. 587.
Fuller, Burton J., Denver, Colo. Remedies for headache. No. 84,952; Jan. 16; Gaz. vol. 174; p. 824.
Fuller, Frank, New York, N. Y. Inhaling-tubes. No. 89,104; Nov. 12; Gaz. vol. 184; p. 545.
Fulton Bag & Cotton Mills, Atlanta, Ga. Canvas ducking. No. 89,552; Dec. 24; Gaz. vol. 185; p. 1049.
Fulton-Bell Company, New York, N. Y. Electric liquid mixing and heating machines. No. 85,857; Mar. 26; Gaz. vol. 176; p. 1065.
Funk, Emil J., Cleveland, Ohio. Dust-cloths and broom-covers. No. 85,959; Apr. 2; Gaz. vol. 177; p. 235.
Fur News Publishing Company, New York, N. Y. Magazines. No. 87,200; July 2; Gaz. vol. 180; p. 317.
G. Sommers & Co., St. Paul, Minn. Base-balls, base-ball gloves, mitts, and masks. No. 88,126; Aug. 27; Gaz. vol. 181; p. 1069.
G. A. Stafford & Company, New York, N. Y. Certain knitted, netted, and textile fabrics. No. 87,494; July 16; Gaz. vol. 180; p. 876.
G. A. Stafford & Company, New York, N. Y. Zephyr gingham. No. 88,795; Oct. 22; Gaz. vol. 183; p. 1029.
G. E. Barbour Company, Limited, St. John, New Brunswick, Canada. Tea. No. 85,898; Mar. 26; Gaz. vol. 176; p. 1066.
G. I. Sellers & Sons Company, Elwood, Ind. Kitchen-cabinets, cupboards, closets, and tables. No. 88,374; Sept. 10; Gaz. vol. 182; p. 507.
G. W. Bent Co., Boston, Mass. Mattresses, cushions, pillows, and bedsteads. No. 85,940; Apr. 2; Gaz. vol. 177; p. 235.
G. W. Carnrick Company, New York, N. Y. Digestive-ferment product. No. 85,704; Mar. 5; Gaz. vol. 176; p. 271.
G. W. Parks Company, Newark, N. J., and Providence, R. I. Certain jewelry and toilet and stationery articles made of sterling silver. No. 87,795; Aug. 6; Gaz. vol. 181; p. 261.
G. W. Sammet & Son Co., Boston, Mass. Mattresses and feather pillows. No. 86,461; May 7; Gaz. vol. 178; p. 316.
Gabilla, Henriette, Paris, France. Certain toilet cosmetics. Nos. 87,743–6; Aug. 6; Gaz. vol. 181; p. 260.
Gabilla, Henriette, Paris, France. Certain named toilet preparations. No. 88,483; Sept. 24; Gaz. vol. 182; p. 966.
Gabriel & Co., Birmingham, England. Copper and aluminum alloys. No. 85,239; Feb. 6; Gaz. vol. 175; p. 260.
Gage-Downs Company, Chicago, Ill. Corset-stiffeners. No. 86,051; Apr. 9; Gaz. vol. 177; p. 529.
Gage, Edwin L., Portland, Oreg. Truck-scales. No. 87,064; June 25; Gaz. vol. 179; p. 1102.
Gaiennié, George B., Chicago, Ill. Magazines. No. 87,201; July 2; Gaz. vol. 180; p. 317.
Galban & Co. Inc., New York, N. Y., and Habana, Cuba. Imitation lard. No. 84,826; Jan. 9; Gaz. vol. 174; p. 580.
Galban & Co. Inc., New York, N. Y., and Habana, Cuba. Wheat-flour. No. 84,953; Jan. 16; Gaz. vol. 174; p. 824.
Galban & Co., Inc., New York, N. Y. Compound of beef-fat and cotton-seed oil. No. 86,757; May 28; Gaz. vol. 178; p. 1149.
Galitzki, Leo, Chicago, Ill. Hats. No. 86,799; June 4; Gaz. vol. 179; p. 282.
Gallagher, Charles E., deceased, St. Louis, Mo.; E. A. Gallagher, executor. Blood remedy. No. 86,765; May 28; Gaz. vol. 178; p. 1149.
Gallagher, Ernest A., executor. (See Gallagher, Charles E.)
Gallanis Bros., Chicago, Ill. Candies. No. 88,867; Oct. 29; Gaz. vol. 183; p. 1302.
Gallun & Sons, A. F., Milwaukee, Wis. Leather. No. 85,104; Jan. 30; Gaz. vol. 174; p. 1212.
Gammel & Company, George J., Buffalo, N. Y. Cigars. No. 85,960; Apr. 2; Gaz. vol. 177; p. 235.
Gandy Belting Company of Baltimore City, The, Baltimore, Md. Belt-dressing. No. 85,803; Mar. 19; Gaz. vol. 176; p. 745.
Garantol-Gesellschaft mit beschränkter Haftung, Dresden, Germany. Egg-preserving compound. No. 84,954; Jan. 16; Gaz. vol. 174; p. 824.
Gardiner, Beardsell & Company, Boston, Mass. Shoe-counters. Nos. 85,804–5; Mar. 19; Gaz. vol. 176; p. 745.
Gardner Broom Company, Amsterdam, N. Y. Brooms. No. 86,399; May 7; Gaz. vol. 178; p. 314.
Gardner, George A., *et al.*, trustees. (See Amoskeag Manufacturing Company, assignor.)
Garner Print Works & Bleachery, Wappingers Falls, N. Y. Cambrics, sheeting, shirting, muslin, &c. No. 84,903; Jan. 9; Gaz. vol. 174; p. 582.
Garner Print Works & Bleachery, West Haverstraw, Wappingers Falls, and New York, N. Y. Percales and shirtings. No. 87,442; July 16; Gaz. vol. 180; p. 874.
Garner Print Works & Bleachery, West Haverstraw, Wappingers Falls, and New York, N. Y. Cotton piece goods. Nos. 87,874–7; Aug. 13; Gaz. vol. 181; p. 536.
Garner Print Works & Bleachery, West Haverstraw, Wappingers Falls, and New York, N. Y. Cotton piece goods. No. 88,178; Sept. 3; Gaz. vol. 182; p. 244.
Garner Print Works & Bleachery, West Haverstraw, Wappingers Falls, and New York, N. Y. Cotton fabrics in the piece. No. 88,747; Oct. 22; Gaz. vol. 183; p. 1027.
Garrels & Börner, Hamburg, Germany. Soy-bean oil. No. 84,955; Jan. 16; Gaz. vol. 174; p. 824.
Garrett & Co., Norfolk, Va. Wine. Nos. 88,622–4; Oct. 8; Gaz. vol. 183; p. 499.
Garrett & Co., Norfolk, Va. Wine. No. 88,670; Oct. 15; Gaz. vol. 183; p. 777.
Garson-Meyer & Co., Rochester, N. Y. Coats, overcoats, and rain-coats. No. 85,105; Jan. 30; Gaz. vol. 174; p. 1212.
Gas Traction Company, Minneapolis, Minn. Gas traction-engines. No. 86,584; May 21; Gaz. vol. 178; p. 879.
Gasser Coffee Co., The, Toledo, Ohio. Coffee. No. 87,878; Aug. 13; Gaz. vol. 181; p. 536.
Gaube dit du Gers, Jean, Paris, France. Remedy for cancer. No. 85,574; Feb. 27; Gaz. vol. 175; p. 1094.
Gaube, Ernest W., Cleveland, Ohio. Remedy for pains and aches. No. 84,904; Jan. 9; Gaz. vol. 174; p. 582.

Alphabetical list of registrants of trade-marks—Continued.

Gaube, Ernest W., Cleveland, Ohio. Certain external remedy. No. 87,747; Aug. 6; Gaz. vol. 181; p. 260.
Gaudel & Thompson, Kansas City, Mo. Furniture and woodwork polishes. No. 89,246; Dec. 3; Gaz. vol. 185; p. 244.
Gautier Frères, Aigre, France. Liqueurs. No. 85,654; Mar. 5; Gaz. vol. 176; p. 269.
Ge Bott, Jay D., Onalaska, Tex. Brazing compound. No. 85,431; Feb. 20; Gaz. vol. 175; p. 838.
Gearless Automatic Pump Co., Rock Island, Ill. Automatic pumps and parts thereof. No. 85,738; Mar. 12; Gaz. vol. 176; p. 521.
Geer, George J., New York, N. Y. Certain kinds of piece goods. Nos. 86,135–6; Apr. 16; Gaz. vol. 177; p. 765.
Gener y Seycher, Lutgarda, Habana, Cuba. Cigars, cigarettes, and tobacco. Nos. 86,339–40; Apr. 30; Gaz. vol. 177; p. 1293.
General Electric Company. (See Fostoria Glass Specialty Company, The.)
General Electric Company, Schenectady, N. Y. Brushes for dynamo-electric machines. No. 86,705; May 28; Gaz. vol. 178; p. 1147.
General Electric Company, Schenectady, N. Y. Electric lamps. No. 88,076; Aug. 27; Gaz. vol. 181; p. 1068.
General Electric Company, Schenectady, N. Y. Metals and alloys having high electrical resistance. No. 88,269; Sept. 10; Gaz. vol. 182; p. 504.
General Electric Company, Schenectady, N. Y. Electrical regulators. No. 88,625; Oct. 8; Gaz. vol. 183; p. 499.
General Electric Company, Schenectady, N. Y. Electrical insulating-tape. No. 89,553; Dec. 24; Gaz. vol. 185; p. 1050.
General Electric Company, Schenectady, N. Y. Electric lamps. No. 89,645; Dec. 31; Gaz. vol. 185; p. 1374.
General Fireproofing Co., The, Youngstown, Ohio. Filing-cabinets. No. 86,527; May 14; Gaz. vol. 178; p. 587.
General Gas Appliance Co., New York, N. Y. Certain named stoves, ranges, furnaces, water-heaters, and burners. No. 87,748; Aug. 6; Gaz. vol. 181; p. 260.
General Motors Truck Co., Detroit, Mich. Motor-trucks. No. 88,270; Sept. 10; Gaz. vol. 182; p. 504.
General Roofing Manufacturing Company, East St. Louis, Ill. Roofing and deadening felt, building and roofing paper. No. 87,202; July 2; Gaz. vol. 180; p. 317.
Geneva Cutlery Company, Geneva, N. Y. Razors and parts thereof. No. 89,247; Dec. 3; Gaz. vol. 185; p. 244.
Gentry, Susan C., Memphis, Tenn. Poultry feed. No. 89,646; Dec. 31; Gaz. vol. 185; p. 1374.
Geo. A. Alden & Co., Boston, Mass. Shellac in gum or solid form. No. 85,895; Mar. 26; Gaz. vol. 176; p. 1066.
Geo. B. Carpenter & Co., Chicago, Ill. Cotton duck. No. 86,380; May 7; Gaz. vol. 178; p. 313.
Geo. B. Carpenter & Co., Chicago, Ill. Cotton duck. No. 86,878; June 11; Gaz. vol. 179; p. 567.
Geo. B. Carpenter & Co., Chicago, Ill. Awning-stripes. No. 86,879; June 11; Gaz. vol. 179; p. 567.
Geo. B. Carpenter & Co., Chicago, Ill. Cotton duck. No. 88,058; Aug. 27; Gaz. vol. 181; p. 1067.
Geo. Borgfeldt & Co., New York, N. Y. Soap. No. 85,065; Jan. 30; Gaz. vol. 174; p. 1211.
Geo. Borgfeldt & Co., New York, N. Y. Brushes. Nos. 85,550–1; Feb. 27; Gaz. vol. 175; p. 1093.
Geo. Borgfeldt & Co., New York, N. Y. Soap. No. 86,123; Apr. 16; Gaz. vol. 177; p. 765.
Geo. Borgfeldt & Co., New York, N. Y. Aluminum cooking and household utensils. No. 87,597; July 30; Gaz. vol. 180; p. 1387.
Geo. Borgfeldt & Co., New York, N. Y. Dolls. No. 88,161; Sept. 3; Gaz. vol. 182; p. 243.
Geo. Borgfeldt & Co., New York, N. Y. Toilet soap. No. 89,090; Nov. 12; Gaz. vol. 184; p. 545.
Geo. Borgfeldt & Co., New York, N. Y. Bed-pans. No. 89,091; Nov. 12; Gaz. vol. 184; p. 545.
Geo. Bray & Co. Ltd., Leeds, England. Gas-burners. Nos. 87,724–5; Aug. 6; Gaz. vol. 181; p. 259.
Geo. H. Bowman Co., The, Cleveland, Ohio. Certain aluminum household and kitchen utensils. No. 88,613; Oct. 8; Gaz. vol. 183; p. 499.
Geo. L. Vose Mfg. Co., The, Saco, Me., and Providence, R. I. Jewelry. No. 86,646; May 21; Gaz. vol. 178; p. 881.
Geo. P. Bent Company, Chicago, Ill. Pianos and piano-players. No. 88,457; Sept. 24; Gaz. vol. 182; p. 965.
Geo. P. Bent Company, Chicago, Ill. Interior-player pianos. No. 89,436; Dec. 17; Gaz. vol. 185; p. 823.
Geo. R. Gibson Co., New York, N. Y. Toilet-brushes. No. 85,739; Mar. 12; Gaz. vol. 176; p. 521.
Geo. Tileston Milling Co., St. Cloud, Minn. Wheat-flour. No. 89,304; Dec. 3; Gaz. vol. 185; p. 245.
Geo. W. Torrey Co., Boston, Mass. Mixed spirituous liquors. No. 88,807; Oct. 22; Gaz. vol. 183; p. 1029.
Geo. W. Wheelwright Paper Company, Boston, Mass. Writing and printing paper and bristol-board. No. 89,315; Dec. 3; Gaz. vol. 185; p. 246.
Geo. Zett Brewery, The, Syracuse, N. Y. Lager-beer. No. 88,820; Oct. 22; Gaz. vol. 183; p. 1029.
George A. Whiting Paper Company, Menasha, Wis. Book-paper. No. 86,675; May 21; Gaz. vol. 178; p. 882.
George & Barker Co., The, Point Roberts, Wash. Certain canned fish. No. 88,271; Sept. 10; Gaz. vol. 182; p. 504.
George E. Chandler Company, Central Falls, R. I. Handkerchiefs. No. 87,975; Aug. 20; Gaz. vol. 181; p. 815.
George H. Mason Company, Portland, Me., and Boston, Mass. Kitchen and household utensils and foot, bath, and sitz tubs. No. 88,010; Aug. 20; Gaz. vol. 181; p. 816.
George Pickering & Co., Inc., Elmira, N. Y. Textile-dyes. No. 87,922; Aug. 13; Gaz. vol. 181; p. 537.
George, Thomas, Baltimore, Md. Syrup for soda-water. No. 87,989; Aug. 20; Gaz. vol. 181; p. 815.
Georges & Son, J. J., Washington, D. C. Corn and bunion shields. No. 85,575; Feb. 27; Gaz. vol. 175; p. 1094.
Gerhart, Robert L., Lancaster, Pa. Rice, tea, and coffee. Nos. 86,766–7; May 28; Gaz. vol. 178; p. 1149.
Gerke, Robert H., Marietta, Ohio. Certain medicine. No. 84,956; Jan. 16; Gaz. vol. 174; p. 824.
Gerlache, Jean, Brussels, Belgium. Product for preserving wood, &c. No. 89,105; Nov. 12; Gaz. vol. 184; p. 545.
German-American Button Co., Rochester, N. Y. Buttons. No. 87,443; July 16; Gaz. vol. 180; p. 874.
Germann and Company, Limited, Manila, Philippine Islands. Cigars. No. 85,036; Jan. 23; Gaz. vol. 174; p. 1023.
Ges. für Präcisions Technik m. b. H., Berlin, Germany. Calculating-machines. No. 89,106; Nov. 12; Gaz. vol. 184; p. 545.
Getz Bros. & Co. Inc., San Francisco, Cal. Oleaginous cooking compound. No. 87,203; July 2; Gaz. vol. 180; p. 317.
Getz Bros. & Co., San Francisco, Cal. Spices. No. 88,077; Aug. 27; Gaz. vol. 181; p. 1068.
Gevaert & Co., L., Vieux-Dieu, near Antwerp, Belgium. Certain named photographic apparatus and supplies. No. 89,456; Dec. 17; Gaz. vol. 185; p. 824.
Gibson, Ann B., Warrenton, Va. Salve. No. 89,107; Nov. 12; Gaz. vol. 184; p. 546.
Gibson and Company, William, Kinghorn, Scotland. Golf clecks, irons, and clubs. No. 88,272; Sept. 10; Gaz. vol. 182; p. 504.
Giffen-Hobbs Co., Fresno, Cal. Dried fruits and raisins. No. 87,621; July 30; Gaz. vol. 180; p. 1388.
Giffen-Hobbs Co., Fresno, Cal. Dried fruits and raisins. No. 88,273; Sept. 10; Gaz. vol. 182; p. 504.
Gifford Chemical Company, The, Beverly, N. J. Tooth powders and pastes. No. 85,576; Feb. 27; Gaz. vol. 175; p. 1094.
Gilbert, Alfred C., New Haven, Conn. Toys and trick apparatus. No. 88,078; Aug. 27; Gaz. vol. 181; p. 1068.
Gilbert and Horner, Chambersburg, Pa. Cold-cream, cold and grippe capsules, and stomach medicine. No. 87,553; July 23; Gaz. vol. 180; p. 1133.
Gildea, Georgie C., Los Angeles, Cal. Salve. No. 88,671; Oct. 15; Gaz. vol. 183; p. 777.
Gill Brothers Company, Steubenville, Ohio. Certain glassware. No. 85,037; Jan. 23; Gaz. vol. 174; p. 1023.
Gill Brothers Company, Steubenville, Ohio. Certain glassware. No. 85,806; Mar. 19; Gaz. vol. 176; p. 745.
Gill Brothers Company, Steubenville, Ohio. Certain glassware. No. 87,749; Aug. 6; Gaz. vol. 181; p. 260.
Gillam, Walter E., New York, N. Y., and Philadelphia, Pa. Cathartic preparation. No. 86,214; Apr. 23; Gaz. vol. 177; p. 1039.
Gillan & Gillan, Passaic, N. J. Stove-polish. No. 86,800; June 4; Gaz. vol. 179; p. 282.
Gilman, O. B., Boston, Mass. Crackers and cakes. No. 85,432; Feb. 20; Gaz. vol. 175; p. 838.
Ginseng Syrup Company, The, Grand Rapids, Mich. Flavoring-syrups used in compound ginseng beverages. No. 88,406; Sept. 17; Gaz. vol. 182; p. 717.
Girvan, Cuthbert G., Manchester, England. Artificial-silk fabric. No. 89,354; Dec. 10; Gaz. vol. 185; p. 520.
Gisholt Machine Company, Madison, Wis. Time-recorders. No. 88,274; Sept. 10; Gaz. vol. 182; p. 504.
Git Mfg. Co., Westfield, Mass. Paste soap. No. 85,858; Mar. 26; Gaz. vol. 176; p. 1065.
Glade & Co., Henry, Grand Island, Nebr. Wheat-flour. No. 89,457; Dec. 17; Gaz. vol. 185; p. 824.
Glencairn Manufacturing Company, Pawtucket, R. I. Lacing-tips. No. 85,577; Feb. 27; Gaz. vol. 175; p. 1094.
Glenn, Joseph A., Philadelphia, Pa. Ointments. No. 88,672; Oct. 15; Gaz. vol. 183; p. 777.
Glide Road Machine Company, Minneapolis, Minn. Road-grading machines. No. 89,355; Dec. 10; Gaz. vol. 185; p. 520.
Globe Ear-Phone Company, Boston, Mass. Audiphones. No. 86,400; May 7; Gaz. vol. 178; p. 314.
Globe Shirt & Overall Co., Abingdon, Ill. Certain named clothing. No. 89,648; Dec. 31; Gaz. vol. 185; p. 1374.
Globe Soap Company, The, Cincinnati, Ohio. Soap. No. 85,106; Jan. 30; Gaz. vol. 174; p. 1212.
Goeser, John H., Hazleton, Pa. Canned vegetables. No. 89,023; Nov. 5; Gaz. vol. 184; p. 282.
Goetz Chemical Company, Dr., Brooklyn, N. Y. Face-powder. No. 86,216; Apr. 23; Gaz. vol. 177; p. 1039.
Goldberg, Bowen & Co., San Francisco, Cal. Canned fruits and vegetables and cheese. No. 85,107; Jan. 30; Gaz. vol. 174; p. 1212.

Alphabetical list of registrants of trade-marks—Continued.

Goldberg, Bowen & Co., San Francisco, Cal. Canned vegetables. No. 85,433; Feb. 20; Gaz. vol. 175; p. 838.
Goldberg, Bowen & Co., San Francisco, Cal. Wine. No. 87,204; July 2; Gaz. vol. 180; p. 317.
Golden Gate Co., Baltimore, Md. Gin compound. No. 86,985; June 18; Gaz. vol. 179; p. 847.
Golden Gate Co., Baltimore, Md. Whisky blend. No. 86,986; June 18; Gaz. vol. 179; p. 847.
Golden Sporting Shoe Co., Brockton, Mass. Sporting-shoes. No. 88,868; Oct. 29; Gaz. vol. 183; p. 1302.
Golden West Brewing Company, Inc., Oakland, Cal. Beer. No. 86,401; May 7; Gaz. vol. 178; p. 314.
Goldman Costume Company, New York, N. Y. Silk and cotton dresses. No. 85,808; Mar. 19; Gaz. vol. 176; p. 745.
Goldschmidt, Th., Essen-on-the-Ruhr, Germany. Silk-treating substances. No. 85,108; Jan. 30; Gaz. vol. 174; p. 1212.
Goldsmith, Gordon, Baltimore, Md. Boots and shoes. No. 85,961; Apr. 2; Gaz. vol. 177; p. 235.
Goldstein, Leo C., New York, N. Y. Tea for coughs and colds and tablets for stomach troubles. No. 84,737; Jan. 2; Gaz. vol. 174; p. 283.
Goldstein & Levin, New York, N. Y. Knee-pants and juvenile suits. No. 88,079; Aug. 27; Gaz. vol. 181; p. 1068.
Goodale, Frank C., Lowell, Mass. Carbonated, &c., beverages. No. 89,248; Dec. 3; Gaz. vol. 185; p. 244.
Goodell-Pratt Company, Greenfield, Mass. Spirit-levels. No. 89,249; Dec. 3; Gaz. vol. 185; p. 244.
Goodman & Son, A., New York, N. Y. Certain foods. No. 86,901; June 11; Gaz. vol. 179; p. 568.
Goodman & Son, A., New York, N. Y. Matzoths. No. 87,065; June 25; Gaz. vol. 179; p. 1102.
Goodrich, W. Irving, Passaic, N. J. Stove-polish. No. 88,567; Oct. 1; Gaz. vol. 183; p. 213.
Goodyear Tire and Rubber Company, The, Akron, Ohio. Elastic vehicle-tires. No. 85,434; Feb. 20; Gaz. vol. 175; p. 838.
Goodyear Tire and Rubber Company, The, Akron, Ohio. Elastic vehicle-tires. No. 86,137; Apr. 16; Gaz. vol 177; p. 765.
Gordon & Dilworth, New York, N. Y. Spiced fruit preserves. No. 87,331; July 9; Gaz. vol. 180; p. 597.
Gorman & Company, Inc., Seattle, Wash. Canned salmon. No. 89,458; Dec. 17; Gaz. vol. 185; p. 824.
Gorman, Horace P., Hazleton, Pa. Preparation for nickel-plating metal. No. 86,215; Apr. 23; Gaz. vol. 177; p. 1039.
Gossett, R. A., Atlanta, Ga. Remedy for catarrh. No. 84,738; Jan. 2; Gaz. vol. 174; p. 283.
Gossler Bros., New York, N. Y. Whiskies and cordials. No. 85,809; Mar. 19; Gaz. vol. 176; p. 745.
Gottesman & Son, M., New York, N. Y. Wood-pulp. No. 87,332; July 9; Gaz. vol. 180; p. 597.
Gottfried Brewing Company, Chicago, Ill. Lager-beer. No. 85,740; Mar. 12; Gaz. vol. 176; p. 521.
Gottfried Krueger Brewing Company, Newark, N. J. Lager-beer. No. 87,773; Aug. 6; Gaz. vol. 181; p. 261.
Gottmann & Kretchmer, Chicago, Ill. Chocolates and marshmallows. No. 85,242; Feb. 6; Gaz. vol. 175; p. 260.
Goudard and Mennesson, M., Paris, France. Carbureters, explosion-motor radiators, pumps, and lubricators. No. 85,655; Mar. 5; Gaz. vol. 176; p. 269.
Gourock Ropework Co. Ltd., Port Glasgow, Scotland. Linen and hemp piece goods. No. 84,957; Jan. 16; Gaz. vol. 174; p. 824.
Governor and Company of Adventurers of England Trading into Hudson's Bay, Winnipeg, Manitoba, Canada. Smoking-tobacco. No. 85,962; Apr. 2; Gaz. vol. 177; p. 235.
Gowan Medical Company, Dunham, N. C. Toilet and bath soap. No. 88,568; Oct. 1; Gaz. vol. 183; p. 213.
Gra-Fru Company, Punta Gorda, Fla. Grape-fruit phosphate. No. 88,080; Aug. 27; Gaz. vol. 181; p. 1068.
Graham, Hedley R., St. Louis, Mo. Plastic flooring and flooring materials. No. 85,963; Apr. 2; Gaz. vol. 177; p. 236.
Graham, Hinkley & Co., New York, N. Y. Cocoa-beans. No. 88,275; Sept. 10; Gaz. vol. 182; p. 504.
Graham, John H., New York, N. Y. Heels for boots, shoes, and rubbers. No. 89,649; Dec. 31; Gaz. vol. 185; p. 1374.
Graham Paper Company, St. Louis, Mo. Wrapping, wall, box-covering, &c., paper. No. 89,650; Dec. 31; Gaz. vol. 185; p. 1374.
Grand Bay Land Company, The, Grand Bay, Ala.; Chicago, Ill., and Scranton, Pa. Monthly magazine. No. 84,905; Jan. 9; Gaz. vol. 174; p. 582.
Grand Junction Fruit Growers' Association, The, Grand Junction, Colo. Fresh and green fruits. No. 88,869; Oct. 29; Gaz. vol. 183; p. 1302.
Grand Junction Fruit Growers' Association, The, Grand Junction, Colo. Fresh and green fruits. No. 89,024; Nov. 5; Gaz. vol. 184; p. 282.
Grand River Canning Company, Markesan, Wis. Canned vegetables. No. 87,066; June 25; Gaz. vol. 179; p. 1102.
Grand River Canning Company, Markesan, Wis. Canned peas. No. 87,333; July 9; Gaz. vol. 180; p. 598.
Grand View Farms Produce Company, Lancaster, Pa. Butter, eggs, vegetables, fruits, &c. No. 87,205; July 2; Gaz. vol. 180; p. 317.
Granger & Houghton, Binghamton, N. Y. Ice-cream cones. No. 87,067; June 25; Gaz. vol. 179; p. 1102.
Grant, John W., New York, N. Y. Men's half-hose and boys' hosiery. No. 89,554; Dec. 24; Gaz. vol. 185; p. 1050.
Grantorpets Tändsticksfabriks Aktiebolag, Westervik, Sweden. Matches. No. 88,746; Oct. 22; Gaz. vol. 183; p. 1027.
Gray, Frank A., Kansas City, Mo. Hair remedies. No. 89,250; Dec. 3; Gaz. vol. 185; p. 244.
Gray Telephone Pay Station Company, The, Hartford, Conn. Telephone pay-stations. No. 89,651; Dec. 31; Gaz. vol. 185; p. 1374.
Great Atlantic and Pacific Tea Company, Jersey City, N. J. Coffee. No. 87,622; July 30; Gaz. vol. 180; p. 1388.
Great Western Oil Co., The, Cleveland, Ohio. Lubricating-oil. No. 85,109; Jan. 30; Gaz. vol. 174; p. 1212.
Great Western Oil Co., The, Cleveland, Ohio. Lubricating and illuminating oils and greases made from petroleum products. No. 85,243; Feb. 6; Gaz. vol. 175; p. 260.
Great Western Smelting & Refining Co., Chicago, Ill. Babbitt and antifriction metals. No. 88,276; Sept. 10; Gaz. vol. 182; p. 504.
Great Western Smelting & Refining Co., Chicago, Ill. Babbitt and antifriction metals. No. 89,025; Nov. 5; Gaz. vol. 184; p. 282.
Great Western Sugar Company, The, Denver, Colo. Stock food. No. 87,879; Aug. 13; Gaz. vol. 181; p. 536.
Green, David V., Bridgeport, Conn. Curtains, pillow-shams, and lace coverlets. No. 85,244; Feb. 6; Gaz. vol. 175; p. 260.
Green & De Laittre Company, Minneapolis, Minn. Cereal breakfast food. No. 89,459; Dec. 17; Gaz. vol. 185; p. 824.
Green Fuel Economizer Co., The, Matteawan, N. Y. Certain named heaters. No. 87,752; Aug. 6; Gaz. vol. 181; p. 260.
Green, George G., Woodbury, N. J. Remedy for certain diseases. No. 87,068; June 25; Gaz. vol. 179; p. 1102.
Green & Green Company, The, Dayton, Ohio. Crackers. No. 85,741; Mar. 12; Gaz. vol. 176; p. 521.
Green & Green Company, The, Dayton, Ohio. Crackers. No. 86,052; Apr. 9; Gaz. vol. 177; p. 520.
Green River Lumber Company, Memphis, Tenn. Lumber and logs. Nos. 87,753–4; Aug. 6; Gaz. vol. 181; p. 260
Green-Wheeler Shoe Co., Fort Dodge, Iowa. Leather boots and shoes. No. 88,081; Aug. 27; Gaz. vol. 181; p. 1068.
Green-Wheeler Shoe Co., Fort Dodge, Iowa. Boots and shoes. No. 88,082; Aug. 27; Gaz. vol. 181; p. 1068.
Greenberger & Company, E., New York, N. Y. Furniture. No. 84,739; Jan. 2; Gaz. vol. 174; p. 283.
Greenberger & Company, E., New York, N. Y. Furniture. No. 84,958; Jan. 16; Gaz. vol. 174; p. 824.
Greene, George W., Cullman, Ala. Remedy for cancer. No. 88,569; Oct. 1; Gaz. vol. 183; p. 213.
Greenebaum, Max, New York, N. Y. Writing and printing paper. Nos. 89,460–2; Dec. 17; Gaz. vol. 185; p. 824.
Greenlees, Saml., London, England, and Glasgow and Campbelltown, Scotland. Whisky. No. 89,653; Dec. 31; Gaz. vol. 185; p. 1374.
Greer, William A., Passaic, N. J. Cotton piece goods. No. 86,586; May 21; Gaz. vol. 178; p. 879.
Gregg Glove Co., Crawfordsville, Ind. Gloves. No. 85,343; Feb. 13; Gaz. vol. 175; p. 538.
Gregg Varnish Company, St. Louis, Mo. Varnishes. No. 87,755; Aug. 6; Gaz. vol. 181; p. 260.
Greif Bros. Co., The, Cleveland, Ohio. Casks and barrels. No. 85,344; Feb. 13; Gaz. vol. 175; p. 538.
Greif Bros. Co., The, Cleveland, Ohio. Casks and barrels. Nos. 86,528–30; May 14; Gaz. vol. 178; p. 587.
Greilich, William, New York, N. Y. Sandals and rompers. No. 85,578; Feb. 27; Gaz. vol. 175; p. 1094.
Greist, Lewis T., Washington, D. C., assignor to The Federal Screens Company. Window-screens. No. 88,083; Aug. 27; Gaz. vol. 181; p. 1068.
Greist Manufacturing Company, The, New Haven, Conn. Attachments for sewing-machines. No. 87,623; July 30; Gaz. vol. 180; p. 1388.
Grether, Gustav, Koblenz, Germany. Certain chemical preparations. No. 86,053; Apr. 9; Gaz. vol. 177; p. 520.
Gretschel, Joseph, Long Island City, N. Y. Compound of bitter herbs. No. 88,673; Oct. 15; Gaz. vol. 183; p. 777.
Grieb & Sons, J. G., Philadelphia, Pa. Leather shoes. No. 88,870; Oct. 29; Gaz. vol. 183; p. 1302.
Grieves, Mary E., Ionia, Mich. Games. No. 89,181; Nov. 19; Gaz. vol. 184; p. 799.
Griffin & Skelley Co., San Francisco, Cal. Seeded raisins and sealed fruits. No. 86,661; May 21; Gaz. vol. 178; p. 881.
Griffin Wheel Company, Chicago, Ill. Cast-iron car-wheels. No. 86,902; June 11; Gaz. vol. 179; p. 568.
Griffith-White Chemical Co., Pensacola, Fla. Liver-tonic. No. 84,906; Jan. 9; Gaz. vol. 174; p. 582.
Griggs, Cooper & Co., St. Paul, Minn. Blended coffee. No. 87,624; July 30; Gaz. vol. 180; p. 1388.

Alphabetical list of registrants of trade-marks—Continued.

Griggs, Cooper & Company, St. Paul, Minn. Tea. No. 88,407; Sept. 17; Gaz. vol. 182; p. 717.
Griggs, George A., Butte, Mont. Blank checks. No. 88,674; Oct. 15; Gaz. vol. 183; p. 777.
Grimme, Natalis & Co., Commanditgesellschaft auf Actien, Brunswick, Germany. Calculating and adding machines. No. 87,990; Aug. 20; Gaz. vol. 181; p. 815.
Grimme, Natalis & Co., Commanditgesellschaft auf Actien, Brunswick, Germany. Calculating-machines. No. 87,991; Aug. 20; Gaz. vol. 181; p. 816.
Griswold, Alfred H., New York, N. Y. Remedies for constipation. No. 84,959; Jan. 16; Gaz. vol. 174; p. 824.
Groneweg & Schoentgen Co., Council Bluffs, Iowa. Certain foods. No. 87,625; July 30; Gaz. vol. 180; p. 1388.
Groneweg & Schoentgen Co., Council Bluffs, Iowa. Coffee, tomato catsup, canned oysters, and corn-syrup. No. 87,880; Aug. 13; Gaz. vol. 181; p. 536.
Grosert, Thomas, New York, N. Y. Hair-steaming devices. No. 89,555; Dec. 24; Gaz. vol. 185; p. 1050.
Grossfeld and Roe Company, Chicago, Ill. Canned salmon. No. 86,903; June 11; Gaz. vol. 179; p. 568.
Grossman, Wm., Milwaukee, Wis. Laundry starch. No. 86,402; May 7; Gaz. vol. 178; p. 314.
Grossman, Wm., Milwaukee, Wis. Blended coffee and spices. No. 87,334; July 9; Gaz. vol. 180; p. 598.
Grosvenor & Co., J. M., Boston, Mass. Soap. No. 86,296; Apr. 30; Gaz. vol. 177; p. 1292.
Grove, Prager & Miller, Baltimore, Md. Cream-cheese. No. 85,742; Mar. 12; Gaz. vol. 176; p. 521.
Grover, Edwin O., New York, N. Y. Bread. No. 85,110; Jan. 30; Gaz. vol. 174; p. 1212.
Grüder, Blank & Co. G. m. b. H., Berlin, Germany. Alcohol lamps and burners. No. 87,756; Aug. 6; Gaz. vol. 181; p. 260.
Grumiaux, John W., Rochester, N. Y. Automobile wheel-tire removers. No. 87,992; Aug. 20; Gaz. vol. 181; p. 816.
Grundy, Frederick, and R. J. Belford, Los Angeles, Cal. Type-writer cabinets. No. 87,335; July 9; Gaz. vol. 180; p. 598.
Guano & Raggio, Philadelphia, Pa. Macaroni, &c. No. 89,026; Nov. 5; Gaz. vol. 184; p. 282.
Güettler, Fritz, Frankfort-on-the-Main, Germany. Paper-comminuting machines. No. 89,251; Dec. 3; Gaz. vol. 185; p. 244.
Gulde, Charles F., Beach, N. D. Well-drilling machines. No. 87,993; Aug. 20; Gaz. vol. 181; p. 816.
Gulfport Grocery Co., Gulfport, Miss. Wheat-flour. No. 85,245; Feb. 6; Gaz. vol. 175; p. 260.
Gulliver & Merwine, Kittanning, Pa. Veterinary medicines. No. 87,206; July 2; Gaz. vol. 180; p. 317.
Gustav Stickley Company, New York, N. Y. Certain furniture. No. 86,006; Apr. 2; Gaz. vol. 177; p. 237.
Gustavson, Ellis V., New York, N. Y. Automatic advertising-machines. No. 87,444; July 16; Gaz. vol. 180; p. 874.
Gutman, Julius L., New York, N. Y. Shirts. No. 85,579; Feb. 27; Gaz. vol. 175; p. 1094.
Gutta Percha & Rubber Mfg. Co., The, New York, N. Y. Certain mechanical rubber goods. No. 85,435; Feb. 20; Gaz. vol. 175; p. 838.
Gyro Motor Co., The, Washington, D. C. Internal-combustion engines. No. 86,217; Apr. 23; Gaz. vol. 177; p. 1039.
H. Bronnley & Co., Limited, London, England. Scents. No. 87,726; Aug. 6; Gaz. vol. 181; p. 259.
H. Ehrlich & Sons Mfg. Co., St. Joseph, Mo. Glue. No. 88,473; Sept. 24; Gaz. vol. 182; p. 966.
H. Mueller Manufacturing Company, Decatur, Ill. Certain plumbing and steam-fitting supplies. No. 85,269; Feb. 6; Gaz. vol. 175; p. 260.
H. Mueller Manufacturing Co., Decatur, Ill. Cocks or faucets. No. 88,328; Sept. 10; Gaz. vol. 182; p. 506.
H. Traiser & Company, Incorporated, Boston, Mass. Cigars. No. 87,826; Aug. 6; Gaz. vol. 181; p. 262.
H. A. Metz & Co., New York, N. Y. Remedy for certain diseases. No. 85,760; Mar. 12; Gaz. vol. 176; p. 522.
H. B. Chalmers Co., Schenectady, N. Y. Varnish and paint removers. No. 86,573; May 21; Gaz. vol. 178; p. 879.
H. B. Claflin Company, The, New York, N. Y. Piece goods made from certain materials and mixtures thereof. No. 88,733; Oct. 22; Gaz. vol. 183; p. 1027.
H. C. Watts, Incorporated, Syracuse, N. Y. Eyeglasses and spectacles. No. 87,693; July 30; Gaz. vol. 180; p. 1390.
H. C. White Co., North Bennington, Vt. Certain named scientific apparatus. No. 89,316; Dec. 3; Gaz. vol. 185; p. 246.
H. D. Lee Mercantile Co., Salina, Kans. Certain foods. No. 86,067; Apr. 9; Gaz. vol. 177; p. 520.
H. G. Lipscomb & Co., Nashville, Tenn. Certain tools. No. 85,755; Mar. 12; Gaz. vol. 176; p. 522.
H. G. Prince & Company, Fruitvale, Cal. Canned fruits. Nos. 85,286–7; Feb. 6; Gaz. vol. 175; p. 261.
H. V. T. Schill Co., New York, N. Y. Cloths known as piece goods, woven from certain named materials. No. 89,583; Dec. 24; Gaz. vol. 185; p. 1050.
H. W. Johns-Manville Co., New York, N. Y. Asbestos pipe-covering. No. 84,833; Jan. 9; Gaz. vol. 174; p. 580.
H. W. Johns-Manville Company, New York, N. Y. Felts for lining or filling walls, &c. No. 84,971; Jan. 16; Gaz. vol. 174; p. 824.
H. W. Johns-Manville Company, New York, N. Y. Piston-packing. No. 86,538; May 14; Gaz. vol. 178; p. 588.
Haas Bros., New York, N. Y. Woolen dress goods in the piece. No. 89,027; Nov. 5; Gaz. vol. 184; p. 282.
Haas-Lieber Grocery Company, St. Louis, Mo. Canned fruits, vegetables, and pork and beans. No. 85,111; Jan. 30; Gaz. vol. 174; p. 1212.
Habicht, Braun & Co., New York, N. Y., and Chicago, Ill. Figs. No. 84,907; Jan. 9; Gaz. vol. 174; p. 582.
Habicht, Braun & Co., New York, N. Y., and Chicago, Ill. Dried fruits, currants, sultana raisins, and citron. No. 85,436; Feb. 20; Gaz. vol. 175; p. 838.
Hackett, Carhart & Co. Inc. Retail, New York, N. Y. Men's and boys' clothing. No. 87,534; July 23; Gaz. vol. 180; p. 1133.
Haden, John B., Galveston, Tex. Remedy for diseases of the eye. No. 85,859; Mar. 26; Gaz. vol. 176; p. 1065.
Hadley & Reeves Mfg. Co., Swissvale, Pa. Certain foot-wear and friction-gloves made of vegetable fiber known as loofah. No. 89,556; Dec. 24; Gaz. vol. 185; p. 1050.
Haefner, Libby, Chicago, Ill. Medical preparation for blood diseases. No. 85,112; Jan. 30; Gaz. vol. 174; p. 1212.
Haeusser, Charles, Albany, N. Y. Writing and drawing ink. No. 88,871; Oct. 29; Gaz. vol. 183; p. 1302.
Hagendorff, Gerhard, Jersey City, N. J. Cream-cheese. No. 84,960; Jan. 16; Gaz. vol. 174; p. 824.
Hagerstown Legging Company, The, Hagerstown, Md. Leggings and sandals. No. 86,801; June 4; Gaz. vol. 179; p. 282.
Haiku Fruit & Packing Co., Ltd., Haiku, Hawaii. Canned pineapples. No. 85,437; Feb. 20; Gaz. vol. 175; p. 838.
Haiku Fruit & Packing Co., Ltd., Haiku, Maui, Hawaii. Canned pineapples. No. 88,408; Sept. 17; Gaz. vol. 182; p. 717.
Hainer Bookkeeping Machine Co., Providence, R. I. Autographic registers. No. 88,277; Sept. 10; Gaz. vol. 182; p. 504.
Haldens Taendstikfabrik, Fredrikshald, Norway. Matches. No. 86,218; Apr. 23; Gaz. vol. 177; p. 1039.
Haldens Taendstikfabrik, Fredrikshald, Norway. Matches. No. 88,486; Sept. 24; Gaz. vol. 182; p. 966.
Hale, Arthur, New York, N. Y., and Chicago, Ill. Certain kinds of boots, shoes, slippers, and stockings. No. 85,345; Feb. 13; Gaz. vol. 175; p. 538.
Hale Specialty Co., Chicago, Ill. Calendar-pads, files, and paper-weights. No. 88,278; Sept. 10; Gaz. vol. 182; p. 504.
Hall, Byron C., Oakland, Cal. Liniment. No. 86,219; Apr. 23; Gaz. vol. 177; p. 1039.
Hall & Carpenter, Philadelphia, Pa. Asbestos and cement griddles. No. 85,743; Mar. 12; Gaz. vol. 176; p. 521.
Hall, Lyman D., New York, N. Y. Magazine. No. 88,675; Oct. 15; Gaz. vol. 183; p. 777.
Halpern, Michael, New York, N. Y. Pills, face-cream, liniment, salves, &c. No. 84,908; Jan. 9; Gaz. vol. 174; p. 582.
Haltiwanger-Taylor Drug Co., Atlanta, Ga. Remedy for affections of the bowels. No. 85,810; Mar. 19; Gaz. vol. 176; p. 745.
Haltiwanger-Taylor Drug Co., Atlanta, Ga. Remedy for certain ailments. No. 87,070; June 25; Gaz. vol. 179; p. 1102.
Hamburger Bros., New York, N. Y. Kimonos, sacks, house-dresses, and bath-robes. No. 87,881; Aug. 13; Gaz. vol. 181; p. 536.
Hamilton-Beach Mfg. Co., Racine, Wis. Massage-vibrators. No. 89,654; Dec. 31; Gaz. vol. 185; p. 1374.
Hamilton, Frederick, Providence, R. I. Spectacles, eyeglasses, mountings, &c. No. 87,994; Aug. 20; Gaz. vol. 181; p. 816.
Hamilton Woolen Company, Boston, Mass. Serge. No. 88,179; Sept. 3; Gaz. vol. 182; p. 244.
Hammel Riglander & Co., New York, N. Y. Gravers. No. 85,995; Apr. 2; Gaz. vol. 177; p. 236.
Hammer, Howell I., Baltimore, Md. Stomach and nerve tonic. No. 85,346; Feb. 13; Gaz. vol. 175; p. 538.
Hammer Lumber Company, Philadelphia, Pa., and Newbern, N. C. Wooden shingles, flooring, and siding-boards. No. 86,403; May 7; Gaz. vol. 178; p. 314.
Hammond & Gray, assignors to Pi-Ki Pile Remedy Co., Attica, Ind. Salve. No. 85,811; Mar. 19; Gaz. vol. 176; p. 745.
Hammondsport Wine Company, Hammondsport, N. Y. Wine. No. 85,744; Mar. 12; Gaz. vol. 176; p. 521.
Hampton Drug Co., Carterville, Ill. Remedy for sore throat and mouth and a veterinary medicine. No. 84,741; Jan. 2; Gaz. vol. 174; p. 284.
Hamstra & Co., H., Grand Rapids, Mich. Tea. No. 86,297; Apr. 30; Gaz. vol. 177; p. 1292.
Hamton & Co., New York, N. Y. Certain detergents and polishing materials. No. 84,740; Jan. 2; Gaz. vol. 174; p. 284.
Hanan & Son, Brooklyn, N. Y. Leather boots and shoes. No. 86,055; Apr. 9; Gaz. vol. 177; p. 520.

Alphabetical list of registrants of trade-marks—Continued.

Hance Bros. & White, Philadelphia, Pa. Remedies and liniments for certain named diseases. No. 89,252; Dec. 3; Gaz. vol. 185; p. 244.
Hand, F. Cromwell, Scranton, Pa. Remedy for complexion disorders and skin-beautifier. No. 89,540; Dec. 24; Gaz. vol. 185; p. 1049.
Haney, Allen E., Albion, Ind. Rheumatic and kidney remedy. No. 88,872; Oct. 29; Gaz. vol. 183; p. 1302.
Hanover Wire Cloth Co., Hanover, Pa. Wire-cloth. No. 85,438; Feb. 20; Gaz. vol. 175; p. 838.
Hansen, Anton H., Cleveland, Ohio. Trading-stamps. No. 86,220; Apr. 23; Gaz. vol. 177; p. 1039.
Hansen, Christian, Copenhagen, Denmark, and Little Falls, N. Y. Pudding-powder. No. 88,409; Sept. 17; Gaz. vol. 182; p. 717.
Hardesty Milling Co., The, Canal Dover, Ohio. Wheat-flour. No. 87,445; July 16; Gaz. vol. 180; p. 874.
Harding & Sons, Sutton, England. Saponaceous powder for the hair. No. 88,873; Oct. 29; Gaz. vol. 183; p. 1302.
Harding, Tilton & Company, Boston, Mass. Cotton yarns. No. 86,837; June 4; Gaz. vol. 179; p. 283.
Hardinge Brothers, Chicago, Ill. Watchmen's clocks. No. 86,587; May 21; Gaz. vol. 178; p. 879.
Hardwick & Magee Co., Philadelphia, Pa. Woven carpets and rugs. No. 87,336; July 9; Gaz. vol. 180; p. 598.
Hargin Mfg. Company, Minneapolis, Minn. Kidney remedy. No. 89,253; Dec. 3; Gaz. vol. 185; p. 244.
Hargreaves Merc. Co., Lincoln, Nebr. Certain food. No. 86,404; May 7; Gaz. vol. 178; p. 314.
Harley-Davidson Motor Co., Milwaukee, Wis. Motorcycle seat-supports. No. 87,884; Aug. 13; Gaz. vol. 181; p. 536.
Harmony Mills, Cohoes, N. Y., and Boston, Mass. Woven cotton bags. No. 86,723; May 28; Gaz. vol. 178; p. 1148.
Harper, Herbert, New Bedford, Mass. Gravy-salt. No. 85,812; Mar. 19; Gaz. vol. 176; p. 745.
Harper, Herbert, New Bedford, Mass. Lemon-pie-filling preparation. No. 88,279; Sept. 10; Gaz. vol. 182; p. 504.
Harris, Joseph, New York, N. Y. Furniture-polish. No. 87,626; July 30; Gaz. vol. 180; p. 1388.
Harris, Moses H., New York, N. Y. Eyeglass clips or guards. No. 85,860; Mar. 26; Gaz. vol. 176; p. 1065.
Harris Suspender Company, New York, N. Y. Garment-supporters. No. 84,827; Jan. 9; Gaz. vol. 174; p. 580.
Harris, Thomas A., Brooklyn, N. Y. Certain piece goods and handkerchiefs. No. 88,084; Aug. 27; Gaz. vol. 181; p. 1068.
Harris Tweed Association, Limited, London, England. Tweed. No. 89,399; Dec. 10; Gaz. vol. 185; p. 521.
Harris Woodson Co., Inc., Lynchburg, Va. Candy. No. 87,885; Aug. 13; Gaz. vol. 181; p. 536.
Harris Woodson Co., Inc.., Lynchburg, Va. Peanut-candy. No. 88,989; Oct. 29; Gaz. vol. 183; p. 1305.
Harrison & Co., New York, N. Y. Apple vinegar. No. 85,347; Feb. 13; Gaz. vol. 175; p. 538.
Harrison, David A., Los Angeles, Cal. Breakfast foods. No. 85,745; Mar. 12; Gaz. vol. 176; p. 521.
Harrison, Paul, New York, N. Y. Certain named medicines. No. 88,570; Oct. 1; Gaz. vol. 183; p. 213.
Harrisonburg Milling Company, Harrisonburg, Va. Wheat-flour. No. 87,207; July 2; Gaz. vol. 180; p. 317.
Harry C. Lee & Co., New York, N. Y. Tennis-rackets. No. 85,754; Mar. 12; Gaz. vol. 176; p. 522.
Hart, David A., Attleboro, Mass. Bracelets, lockets, pendants, pins, &c. No. 89,464; Dec. 17; Gaz. vol. 185; p. 824.
Hart & Hegeman Manufacturing Company, Hartford, Conn. Certain electrical apparatus. No. 88,676; Oct. 15; Gaz. vol. 183; p. 777.
Hart & Howell, Brooklyn, Mich. Popcorn. No. 88,180; Sept. 3; Gaz. vol. 182; p. 244.
Hart, Joseph A., Rocky Ford, Colo. Cantaloup-seeds. No. 87,071; June 25; Gaz. vol. 179; p. 1102.
Harter Milling Co., The, Toledo and Fostoria, Ohio. Wheat-flour. No. 88,874; Oct. 29; Gaz. vol. 183; p. 1302.
Hartford Bros., Decatur, Ill. Cigars. No. 86,904; June 11; Gaz. vol. 179; p. 568.
Hartford Machine Screw Company, The, Hartford, Conn. Spark-plugs. Nos. 87,757–8; Aug. 6; Gaz. vol. 181; p. 260.
Hartje Paper Manufacturing Co., Pittsburgh, Pa. Wrapping-paper. No. 89,254; Dec. 3; Gaz. vol. 185; p. 244.
Hartman Broom Co., Clay Center, Kans. Brooms. No. 87,446; July 16; Gaz. vol. 180; p. 874.
Hartwig & Vogel, Aktiengesellschaft, Dresden, Germany. Cocoa, chocolate, candy. No. 89,029; Nov. 5; Gaz. vol. 184; p. 282.
Harvey, Harry D., Baltimore, Md. Foundry apparatus. No. 87,886; Aug. 13; Gaz. vol. 181; p. 536.
Harvey, Josiah H., Scranton, Pa. Mattresses, bed-springs, beds, and pillows. No. 87,448; July 16; Gaz. vol. 180; p. 874.
Harvin, Ben H., Harvin, S. C. Fertilizers. No. 89,182; Nov. 19; Gaz. vol. 184; p. 799.
Haskins Bros. & Co., Sioux City, Iowa. Laundry soap. No. 89,109; Nov. 12; Gaz. vol. 184; p. 546.
Hassinger, Eg., Paris, France. Certain named paper and stationery articles. No. 89,183; Nov. 19; Gaz. vol. 184; p. 799.
Hastings Brewing Co., Hastings, Nebr. Lager-beer. No. 88,181; Sept. 3; Gaz. vol. 182; p. 244.
Hatfield-Bernhard Co. Inc., Seattle, Wash. Varnishes and stains. No. 86,590; May 21; Gaz. vol. 178; p. 879.
Hatheway, Margaret L., Cambridge, Mass. Leather shoes. No. 84,828; Jan. 9; Gaz. vol. 174; p. 250.
Hatmaker, James R., Paris, France. Milk, cream, butter, and cheese. No. 86,056; Apr. 9; Gaz. vol. 177; p. 520.
Häusler, Gustav, Hanover, Germany. Watches and clocks and parts thereof. No. 85,038; Jan. 23; Gaz. vol. 174; p. 1023.
Haussmann & Co., Philadelphia, Pa. Optical lenses. No. 88,626; Oct. 8; Gaz. vol. 183; p. 499.
Hautzenroeder Co., The, Mansfield, Ohio. Cigars. No. 86,905; June 11; Gaz. vol. 179; p. 568.
Haven, Porter A., Kansas City, Mo. Lubricating-oil. No. 85,439; Feb. 20; Gaz. vol. 175; p. 838.
Hawaiian Pineapple Co., Ltd., Honolulu, Hawaii. Canned pineapple. No. 84,829; Jan. 9; Gaz. vol. 174; p. 580.
Hawaiian Pineapple Co., Ltd., Honolulu, Hawaii. Canned pineapple. No. 85,113; Jan. 30; Gaz. vol. 174; p. 1212.
Hawes Corset Co., The, Bridgeport, Conn. Corsets. No. 85,656; Mar. 5; Gaz. vol. 176; p. 269.
Hawk Fish Company, Seattle, Wash. Canned salmon. No. 85,746; Mar. 12; Gaz. vol. 176; p. 521.
Hawker, Arthur E., London, England. Certain chemical preparation. No. 86,988; June 18; Gaz. vol. 179; p. 847.
Hawkes & Son, London, England. Cornets, trumpets, and drums. No. 88,487; Sept. 24; Gaz. vol. 182; p. 966.
Haws, George A., New York, N. Y. Lubricating oils and greases. No. 87,627; July 30; Gaz. vol. 180; p. 1388.
Hawthorne Manufacturing Company, Incorporated, Bridgeport, Conn. Bicycle, motor-cycle, automobile, and carriage lamps. No. 89,255; Dec. 3; Gaz. vol. 185; p. 244.
Hayes Duster Company, New York, N. Y. Dusters. No. 84,961; Jan. 16; Gaz. vol. 174; p. 824.
Haynes Henson Shoe Company, Knoxville, Tenn. Leather boots and shoes. No. 87,072; June 25; Gaz. vol. 179; p. 1102.
Haynes, Henson Shoe Company, Knoxville, Tenn. Leather boots and shoes. No. 87,449; July 16; Gaz. vol. 180; p. 874.
Haynes Henson Shoe Company, Knoxville, Tenn. Leather boots and shoes. No. 88,749; Oct. 22; Gaz. vol. 183; p. 1027.
Hayward, Wm. H., New York, N. Y. Cleaning-powder. No. 85,861; Mar. 26; Gaz. vol. 176; p. 1065.
Healy, Frank D., New York, N. Y. Certain kinds of jewelry. No. 85,862; Mar. 26; Gaz. vol. 176; p. 1065.
Heather Company, New York, N. Y. Certain toilet preparations. No. 86,405; May 7; Gaz. vol. 178; p. 314.
Hebert and Guidry, Houma, La. Remedy for skin diseases. No. 85,114; Jan. 30; Gaz. vol. 174; p. 1213.
Hecker Cereal Company, The, New York, N. Y., and Milwaukee, Wis. Rolled oats. No. 87,628; July 30; Gaz. vol. 180; p. 1388.
Heekin Spice Co., Cincinnati, Ohio. Baking-powder. No. 88,282; Sept. 10; Gaz. vol. 182; p. 504.
Hedden & Eberhardt, New York, N. Y. Perfumes, toilet waters, sachet and face powders. No. 87,208; July 2; Gaz. vol. 180; p. 317.
Heering, Peter F., Copenhagen, Denmark. Cherry brandy. No. 86,057; Apr. 9; Gaz. vol. 177; p. 520.
Heidland Baking Co., St. Louis, Mo. Bread. No. 89,256; Dec. 3; Gaz. vol. 185; p. 244.
Heineman Bros., Baltimore, Md. Cigars. No. 85,039; Jan. 23; Gaz. vol. 174; p. 1023.
Heizer, Calvin B., Oakland, Cal. Facial cream. No. 88,876; Oct. 29; Gaz. vol. 183; p. 1302.
Hellen, William H., Uniontown, Pa. Pineapple-jack. No. 85,747; Mar. 12; Gaz. vol. 176; p. 521.
Heller Brothers Co., Newark, N. J. Certain tools. No. 85,708; Mar. 5; Gaz. vol. 176; p. 271.
Heller & Co., B., Chicago, Ill. Preparation for improving ice-cream. No. 86,591; May 21; Gaz. vol. 178; p. 879.
Heller & Co., B., Chicago, Ill. Food-preservative. No. 88,284; Sept. 10; Gaz. vol. 182; p. 504.
Heller & Long, New York, N. Y. Handkerchiefs. No. 86,906; June 11; Gaz. vol. 179; p. 568.
Heller & Long, New York, N. Y. Handkerchiefs. No. 86,989; June 18; Gaz. vol. 179; p. 847.
Heller & Long, New York, N. Y. Handkerchiefs. No. 87,535; July 23; Gaz. vol. 180; p. 1133.
Heller & Long, New York, N. Y. Handkerchiefs. No. 88,283; Sept. 10; Gaz. vol. 182; p. 504.
Hellrung and Grimm House Furnishing Co., St. Louis, Mo. Refrigerators. No. 85,115; Jan. 30; Gaz. vol. 174; p. 1213.
Helvetia Milk Condensing Company, Highland, Ill. Evaporated milk. No. 88,285; Sept. 10; Gaz. vol. 182; p. 504.
Hemmeter Cigar Company, Detroit, Mich. Cigars, tobacco, and cigarettes. No. 88,488; Sept. 24; Gaz. vol. 182; p. 966.

Alphabetical list of registrants of trade-marks—Continued.

Hemming Manufacturing Company, Wallington, N. J. Certain electrical apparatus and supplies. No. 85,440; Feb. 20; Gaz. vol. 175; p. 838.
Hemphill & Christensen, Fullerton, Cal. Casabas. No. 88,182; Sept. 3; Gaz. vol. 182; p. 244.
Henckels, J. A., New York, N. Y. Razors. No. 89,257; Dec. 3; Gaz. vol. 185; p. 244.
Henderson, Jennie, Springfield, Ill. Remedy for asthma. No. 89,258; Dec. 3; Gaz. vol. 185; p. 244.
Henderson, John G., Charlottesville, Va. Boring-machine for electric-light wiring. No. 86,706; May 28; Gaz. vol. 178; p. 1147.
Henderson, Mark M., New York, N. Y. Union suits of textile material. No. 86,138; Apr. 16; Gaz. vol. 177; p. 765.
Henke Manufacturing Co., New York, N. Y. Dry paints. No. 88,289; Sept. 10; Gaz. vol. 182; p. 505.
Henkel & Cie., Dusseldorf, Germany. Bleaching preparations. No. 87,337; July 9; Gaz. vol. 180; p. 598.
Henkel & Cie., Dusseldorf, Germany. Preparation for removing printers' ink from paper, &c. No. 88,489; Sept. 24; Gaz. vol. 182; p. 966.
Henkel-Duke Mercantile Co., Pueblo, Colo. Coffee. No. 89,028; Nov. 5; Gaz. vol. 184; p. 282.
Henkel-Duke Mercantile Co., Pueblo, Colo. Cigars, smoking and chewing tobacco, and cigarettes. No. 89,360; Dec. 10; Gaz. vol. 185; p. 520.
Henlein & Greentree, New York, N. Y. Men's outer suits and coats. No. 87,536; July 23; Gaz. vol. 180; p. 1133.
Henley-Waite Orpheola Company, Kansas City, Mo. Piano-player actions. No. 89,557; Dec. 24; Gaz. vol. 185; p. 1050.
Henry A. Dix & Sons Company, New York, N. Y. Ladies' tub-dresses. No. 86,287; Apr. 30; Gaz. vol. 177; p. 1291.
Henry, Augustus M., New York, N. Y. Projecting-machines and slides therefor. No. 87,995; Aug. 20; Gaz. vol. 181; p. 816.
Henry Disston & Sons, Incorporated, Philadelphia, Pa. Certain named instruments and indicators. No. 89,630; Dec. 31; Gaz. vol. 185; p. 1374.
Henry Disston & Sons, Incorporated, Philadelphia, Pa. Certain named cutlery and tools. No. 89,631; Dec. 31; Gaz. vol. 185; p. 1374.
Henry E. Frankenberg Company, New York, N. Y. Certain named articles of wearing-apparel. No. 89,351; Dec. 10; Gaz. vol. 185; p. 520.
Henry E. Frankenberg Company, New York, N. Y. Neckscarfs, head-scarfs, fascinators, &c. No. 89,352; Dec. 10; Gaz. vol. 185; p. 520.
Henry K. Wampole and Company Incorporated, Philadelphia, Pa. Certain medicine and pharmaceutical preparations. No. 87,022; June 18; Gaz. vol. 179; p. 848.
Henry K. Wampole and Company, Incorporated, Philadelphia, Pa. Cod-liver-extract preparations. No. 88,648; Oct. 8; Gaz. vol. 183; p. 500.
Henry N. Clark Co., Boston, Mass. Cooking-ranges, heating-stoves, and hot-air furnaces. No. 86,038; Apr. 9; Gaz. vol. 177; p. 519.
Henry's Chemical Co., Washington, D. C. Certain pharmaceutical preparations. No. 86,058; Apr. 9; Gaz. vol. 177; p. 520.
Henson, Granville H., Evona, Ky. Remedy for rheumatism, sciatic pains, &c. No. 86,222; Apr. 23; Gaz. vol. 177; p. 1039.
Hercules Electric Company, Indianapolis, Ind. Magneto-electric generators. No. 86,802; June 4; Gaz. vol. 179; p. 282.
Hercules Waterproof Cement Company, Buffalo, N. Y. Compound for waterproofing and strengthening cement. No. 84,962; Jan. 16; Gaz. vol. 174; p. 824.
Herman, Jacob A., New York, N. Y. Dresses, skirts, and petticoats. No. 84,963; Jan. 16; Gaz. vol. 174; p. 824.
Hermann, Isadore, Columbus, Ga. Purgative, &c. No. 86,223; Apr. 23; Gaz. vol. 177; p. 1039.
Herren, Geo. W., Stockton, Cal. Remedies for rheumatism and blood diseases. No. 87,759; Aug. 6; Gaz. vol. 181; p. 260.
Herrmann, August, Sr., Berlin, Germany. Medicine for the relief of rheumatism. No. 85,580; Feb. 27; Gaz. vol. 175; p. 1094.
Herrmann & Co., Morris, New York, N. Y. Insecticides. No. 89,110; Nov. 12; Gaz. vol. 184; p. 546.
Hershberg & Company, Rochester, N. Y. Coats. No. 85,116; Jan. 30; Gaz. vol. 174; p. 1213.
Hertel, Frederick W., Chicago, Ill. Certain foods. No. 86,662; May 21; Gaz. vol. 178; p. 881.
Herz, Levi, St. Paul, Minn. Self-heating sad-irons. No. 86,406; May 7; Gaz. vol. 178; p. 314.
Hess Brothers Inc., New York, N. Y. Candy and chocolates. No. 86,907; June 11; Gaz. vol. 179; p. 568.
Hess & Hopkins Leather Company, Rockford, Ill. Harness, fly-nets, horse-collars, &c. No. 87,760; Aug. 6; Gaz. vol. 181; p. 260.
Hewlett Bros. Co., Salt Lake City, Utah. Blended coffee and tea. No. 85,657; Mar. 5; Gaz. vol. 176; p. 269.
Heyman, Abraham, New York, N. Y. Explosives. No. 84,964; Jan. 16; Gaz. vol. 174; p. 824.
Hibern Company, The, Chicago, Ill. Remedy for rheumatism. No. 85,582; Feb. 27; Gaz. vol. 175; p. 1094.
Hickey Freeman Co., Rochester, N. Y. Coats, trousers, waistcoats, and overcoats. No. 87,441; July 16; Gaz. vol. 180; p. 874.
Higbey Co., L. M., The, Pasadena, Cal. Medicine for consumption. No. 88,571; Oct. 1; Gaz. vol. 183; p. 213.
Higgins, Mary, Indianapolis, Ind. Face-lotion. No. 88,490; Sept. 24; Gaz. vol. 182; p. 966.
Highland Milk Condensing Co., Elkland, Pa. Evaporated milk. No. 89,030; Nov. 5; Gaz. vol. 184; p. 282.
Hildebrand & Keller, Ephrata, Pa. Roup and poultry condition-powders. No. 88,677; Oct. 15; Gaz. vol. 183; p. 777.
Hildebrandt, John J., Logansport, Ind. Spoon and trolling hooks. No. 88,290; Sept. 10; Gaz. vol. 182; p. 505.
Hildreth Varnish Co., New York, N. Y. Thinner for paints and varnishes. No. 85,117; Jan. 30; Gaz. vol. 174; p. 1213.
Hill, Catherine, Camden, N. J. Certain pharmaceutical preparations. No. 86,592; May 21; Gaz. vol. 178; p. 879.
Hill & Loper Co., Inc., Danbury, Conn. Men's and boys' felt hats and caps. No. 88,750; Oct. 22; Gaz. vol. 183; p. 1028.
Hill Publishing Company, New York, N. Y. Weekly periodical. No. 85,863; Mar. 26; Gaz. vol. 176; p. 1065.
Hills, Lewis A., Salt Lake City, Utah. Chicken coops and houses, nests, feed-boxes, &c. No. 85,348; Feb. 13; Gaz. vol. 175; p. 538.
Hills, William, Jr., New York, N. Y. Dates. No. 89,655; Dec. 31; Gaz. vol. 185; p. 1374.
Hills, William, Jr., New York, N. Y. Currants. No. 89,656; Dec. 31; Gaz. vol. 185; p. 1374.
Himrod Man'f'g Co., New York, N. Y. Certain remedy. No. 85,349; Feb. 13; Gaz. vol. 175; p. 538.
Hine, Reuben A., New York, N. Y. Antiseptic douche. No. 86,990; June 18; Gaz. vol. 179; p. 847.
Hines, Otto W., Washington, D. C. Eyeglasses and spectacles. No. 87,450; July 16; Gaz. vol. 180; p. 874.
Hinkle Capsule Company, Mayfield, Ky. Remedy for gonorrhea, gleet, &c. No. 85,709; Mar. 5; Gaz. vol. 176; p. 271.
Hires Turner Glass Co., Philadelph'a, Pa. Mirror and plate glass. No. 84,830; Jan. 9; Gaz. vol. 174; p. 580.
Hires Turner Glass Co., Philadelphia, Pa. Window-glass. No. 86,407; May 7; Gaz. vol. 178; p. 314.
Hirsch, Carl, New York, N. Y. Smoking-pipes. No. 85,965; Apr. 2; Gaz. vol. 177; p. 236.
Hirsch & Sons, Joseph, New York, N. Y. Certain named dress goods and cloths in the piece. No. 89,356; Dec. 10; Gaz. vol. 185; p. 520.
Hirsch & Sons, Joseph, New York, N. Y. Cotton, linen, silk, and woolen fabrics in the piece. No. 89,357; Dec. 10; Gaz. vol. 185; p. 520.
Hirsch & Sons, Joseph, New York, N. Y. Certain named dress goods and cloths in the piece. No. 89,358; Dec. 10; Gaz. vol. 185; p. 520.
Hirschberg, Hermann M., New York, N. Y. Carbons and carbon electrodes. No. 85,246; Feb. 6; Gaz. vol. 175; p. 260.
Hirshfeld, Jacob B., New York, N. Y. Men's socks. No. 89,359; Dec. 10; Gaz. vol. 185; p. 520.
Hirst & Begley Linseed Co., Chicago, Ill. Vegetable oils. No. 85,814; Mar. 19; Gaz. vol. 176; p. 745.
Hixon Milling Company, La Crosse, Wis. Wheat-flour. No. 88,291; Sept. 10; Gaz. vol. 182; p. 505.
Hoag, Homer L., Rutland, Vt. Antiseptic and deodorant. No. 88,572; Oct. 1; Gaz. vol. 183; p. 213.
Hobbs Mfg. Co., Hobbs, Md. Canned tomatoes. No. 85,118; Jan. 30; Gaz. vol. 174; p. 1213.
Hochschild Kohn & Co., Baltimore, Md. Overcoats, coats, vests, trousers, &c. No. 85,350; Feb. 13; Gaz. vol. 175; p. 538.
Hoffman & Hoffman, San Francisco, Cal. Washing compounds. No. 86,707; May 28; Gaz. vol. 178; p. 1147.
Hoffman, Jacob J., New York, N. Y. Arm-bands and garters. No. 86,908; June 11; Gaz. vol. 179; p. 568.
Hoffmann-La Roche Chemical Works, The, New York, N. Y. Medicinal preparation. No. 87,996; Aug. 20; Gaz. vol. 181; p. 816.
Hoffmann-La Roche Chemical Works, The, New York, N. Y. Disinfectant and germicide. No. 88,678; Oct. 15; Gaz vol. 183; p. 777.
Hofheimer Brothers Company, Norfolk, Va. Boots and shoes. No. 89,259; Dec. 3; Gaz. vol. 185; p. 244.
Hohenadel, John, Philadelphia, Pa. Beer. No. 86,708; May 28; Gaz. vol. 178; p. 1148.
Hohfeld, Herman L., Philadelphia, Pa. Hammocks. No. 86,909; June 11; Gaz. vol. 179; p. 568.
Hohner, M., New York, N. Y. Harmonicas. No. 87,451; July 16; Gaz. vol. 180; p. 874.
Hohner, Firm of M., New York, N. Y. Harmonicas. Nos. 88,292–3; Sept. 10; Gaz. vol. 182; p. 505.
Hohorst, Henry, Jersey City, N. J. Adhesive liquid. No 88,679; Oct. 15; Gaz. vol. 183; p. 777.
Hoke, B. H., Coalport, Pa. Medicine in powder form for use in certain diseases. No. 85,710; Mar. 5; Gaz. vol. 176; p. 271.
Hokkaido Tanko Kisen (Kabushiki) Kaisha, Mororan, Japan. Coal. No. 87,761; Aug. 6; Gaz. vol. 181; p. 260.

Alphabetical list of registrants of trade-marks—Continued.

Holbrook Mfg. Co., The, Jersey City, N. J. Toilet and laundry soap. No. 87,339; July 9; Gaz. vol. 180; p. 598.
Holland-Council Company, Inc., Norfolk, Va. Canned tomatoes. No. 85,125; Jan. 30; Gaz. vol. 174; p. 1213.
Holland Medicine Company, Scranton, Pa., assignor to Oprechte Haarlemmer Olie Fabriek (Voorheen onder de firma G. de Koning Tilly), Haarlem, Netherlands. Medicinal plasters. No. 85,815; Mar. 19; Gaz. vol. 176; p. 745.
Holland, William W., Baltimore, Md. Waxy matter molded in small definite forms. No. 87,887; Aug. 13; Gaz. vol. 181; p. 536.
Hollander & Son, S., New York, N. Y. Veiling. No. 86,059; Apr. 9; Gaz. vol. 177; p. 520.
Holophane Glass Co., New York, N. Y. Gas and electric apparatus for holding light reflectors or shades. No. 88,085; Aug. 27; Gaz. vol. 181; p. 1068.
Holophane Glass Company, New York, N. Y. Glass reflectors and shades. No. 88,491; Sept. 24; Gaz. vol. 182; p. 966.
Holt & Company, New York, N. Y. Wheat-flour. No. 89,031; Nov. 5; Gaz. vol. 184; p. 282.
Holt Manufacturing Company, The, Stockton, Cal. Lubricating-oils. No. 85,748; Mar. 12; Gaz. vol. 176; p. 521.
Holt Manufacturing Company, The, Stockton, Cal. Engines, harvesters, and road-working machines. No. 85,816; Mar. 19; Gaz. vol. 176; p. 745.
Holub, L. & O., Breslau, Germany. Precious, semi-precious, and rhine stones. No. 85,441; Feb. 20; Gaz. vol. 175; p. 838.
Holway, Alvah W., assignor to I. X. L. Poison Fly Paper Company, Boston, Mass. Poisonous fly-paper. No. 85,817; Mar. 19; Gaz. vol. 176; p. 746.
Holzapfels Limited, Newcastle-upon-Tyne, England. Paints. No. 85,442; Feb. 20; Gaz. vol. 175; p. 838.
Holzapfels Limited, Newcastle-upon-Tyne, England. Certain kinds of paints. No. 86,408; May 7; Gaz. vol. 178; p. 314.
Holzhauer, Charles W., Newark, N. J. Remedies for grip and influenza. No. 86,060; Apr. 9; Gaz. vol. 177; p. 520.
Homer Laughlin China Co., Newell, W. Va. Chinaware. No. 89,362; Dec. 10; Gaz. vol. 185; p. 520.
Hon Kano Shoten, Mikage Town, Japan. Japanese sake. No. 85,773; Mar. 12; Gaz. vol. 176; p. 522.
Hood Rubber Co., Boston, Mass. Rubber boots, shoes, overshoes, &c. No. 86,709; May 28; Gaz. vol. 178; p. 1148.
Hood Rubber Co., Boston, Mass. Rubber boots and shoes, overshoes, &c. No. 89,260; Dec. 3; Gaz. vol. 185; p. 244.
Hood Rubber Co., Boston, Mass. Rubber or cushion tires. No. 89,261; Dec. 3; Gaz. vol. 185; p. 244.
Hood Rubber Company, Boston, Mass. Rubber boots, shoes, overshoes, &c. No. 88,086; Aug. 27; Gaz. vol. 181; p. 1068.
Hood Rubber Company, Boston, Mass. Rubber boots and shoes, overshoes, &c. Nos. 88,751–2; Oct. 22; Gaz. vol. 183; p. 1028.
Hooker Electrochemical Company, Niagara Falls, N. Y. Caustic soda, bleaching-powder, and sulfur chlorid. No. 84,909; Jan. 9; Gaz. vol. 174; p. 582.
Hoopes & Townsend Co., Philadelphia, Pa. Rivets. No. 86,758; May 28; Gaz. vol. 178; p. 1149.
Hoopeston Horse Nail Company, Hoopeston, Ill. Horse-nails. No. 88,573; Oct. 1; Gaz. vol. 183; p. 214.
Hoos, Louis, Chicago, Ill. Milk products for infants. No. 89,033; Nov. 5; Gaz. vol. 184; p. 282.
Hoosier Manufacturing Company, Newcastle, Ind. Cabinets, cupboards, closets, and tables. No. 84,831; Jan. 9; Gaz. vol. 174; p. 580.
Hope Company, Providence, R. I. Cotton piece goods. No. 86,061; Apr. 9; Gaz. vol. 177; p. 520.
Hopkins Co., Inc., Manassas, Va. Candy. No. 87,211; July 2; Gaz. vol. 180; p. 317.
Horace Clark & Sons Co., Peoria, Ill. Coal. No. 85,077; Jan. 30; Gaz. vol. 174; p. 1211.
Horlick, William, Jr., Racine, Wis. Condiment. No. 86,910; June 11; Gaz. vol. 179; p. 568.
Horlick's Malted Milk Company, Racine, Wis. Food products. No. 89,466; Dec. 17; Gaz. vol. 185; p. 824.
Horne, William H., Greenville, N. C. Remedy for headaches. No. 85,583; Feb. 27; Gaz. vol. 175; p. 1094.
Hough, William B., Chicago, Ill. Metallic reinforcing bars and members. No. 87,212; July 2; Gaz. vol. 180; p. 317.
Houghton, Joseph H., New York, N. Y. Portland cement. No. 86,804; June 4; Gaz. vol. 179; p. 282.
Household Convenience Company, Limited, Toronto, Canada. Metal cleaning and polishing compositions. No. 85,126; Jan. 30; Gaz. vol. 174; p. 1213.
Household Gas Iron Company, New York, N. Y. Sad-irons. No. 85,584; Feb. 27; Gaz. vol. 175; p. 1094.
Höveling American Composition Company Ltd., von, New York, N. Y. Marine paints. No. 89,519; Dec. 17; Gaz. vol. 185; p. 825.
Howard Bros. Chemical Co., Buffalo, N. Y. Eye-salve. Nos. 89,262–3; Dec. 3; Gaz. vol. 185; p. 244.
Howard Bros. Chemical Co., Buffalo, N. Y. Pile remedy. No. 89,264; Dec. 3; Gaz. vol. 185; p. 244.
Howard Bros. Chemical Co., Buffalo, N. Y. Eye-salve, eye-water, pile remedy, and cathartic tablets. No. 89,364; Dec. 10; Gaz. vol. 185; p. 520.
Howard Bros. Chemical Co., New York, N. Y. Remedies for certain named diseases. No. 89,363; Dec. 10; Gaz. vol. 185; p. 520.
Howard Chemical & Manufacturing Company, Minneapolis, Minn. Inks. No. 88,492; Sept. 24; Gaz. vol. 182; p. 966.
Howard, Frank W., New York, N. Y. Syringes. No. 86,593; May 21; Gaz. vol. 178; p. 879.
Howe & French, Boston, Mass. Candles. No. 87,629; July 30; Gaz. vol. 180; p. 1388.
Howe Scale Co., The, Rutland, Vt. Scales. No. 87,997; Aug. 20; Gaz. vol. 181; p. 816.
Howel, Clayton J., Fort Worth, Tex.; Chicago, Ill., and Toronto, Canada. Beverages and flavoring syrups therefor. No. 89,111; Nov. 12; Gaz. vol. 184; p. 546.
Howland and Wheaton Company, Warren, R. I. Display-cabinets. No. 85,352; Feb. 13; Gaz. vol. 175; p. 538.
Hubbell, Ray, Northville, N. Y. Brass binding for linoleum. No. 84,743; Jan. 2; Gaz. vol. 174; p. 284.
Hudgins, Ernest F., Columbia, S. C. Chill and fever tonic. No. 84,965; Jan. 16; Gaz. vol. 174; p. 824.
Hudson & Gram Co. Inc., The, Portland, Oreg. Clams and oysters. No. 89,658; Dec. 31; Gaz. vol. 185; p. 1375.
Hudson, Joseph, Birmingham, England. Whistle-calls. No. 88,184; Sept. 3; Gaz. vol. 182; p. 244.
Hudson, Joseph, Birmingham, England. Whistle-calls. No. 88,753; Oct. 22; Gaz. vol. 183; p. 1028.
Hudson's, New York, N. Y. Candy. No. 84,966; Jan. 16; Gaz. vol. 174; p. 824.
Hugo Schneider Aktiengesellschaft, Leipzig-Paunsdorf, Germany. Electrical apparatus and supplies. No. 88,120; Aug. 27; Gaz. vol. 181; p. 1069.
Hugo Schneider Aktiengesellschaft, Leipzig-Paunsdorf, Germany. Lamps, lanterns, heaters, and cookers, &c. No. 89,206; Nov. 19; Gaz. vol. 184; p. 800.
Hull & Dillon Pkg. Co., The, Pittsburg, Kans. Ham, bacon, and lard. No. 87,452; July 16; Gaz. vol. 180; p. 874.
Hull & Dillon Pkg. Co., The, Pittsburg, Kans. Ham, bacon, and pure lard. No. 88,884; Oct. 29; Gaz. vol. 183; p. 1302.
Hull, William N., Los Angeles, Cal. Remedy for dandruff. No. 88,627; Oct. 8; Gaz. vol. 183; p. 499.
Hulman & Co., Terre Haute, Ind. Cigars. No. 84,744; Jan. 2; Gaz. vol. 174; p. 284.
Hulman & Co., Terre Haute, Ind. Coffee. No. 85,040; Jan. 23; Gaz. vol. 174; p. 1023.
Humphrey Taylor & Co. Limited, London, England. Tonic wine. No. 85,517; Feb. 20; Gaz. vol. 175; p. 840.
Humphreys, Cannon & Co., Memphis, Tenn. Coffee-blend. No. 86,595; May 21; Gaz. vol. 178; p. 880.
Humphreys, Cannon & Co., Memphis, Tenn. Compound of coffee, cereals, and chicory. No. 87,340; July 9; Gaz. vol. 180; p. 598.
Hunt Bros. Company, San Francisco, Cal. Canned fruits and vegetables. No. 87,890; Aug. 13; Gaz. vol. 181; p. 536.
Hunt, Hatch & Co., Oakland, Cal. Oranges and lemons. Nos. 87,630–1; July 30; Gaz. vol. 180; p. 1388.
Hunt, Hatch & Co., Oakland, Cal. Oranges and lemons. Nos. 88,295–6; Sept. 10; Gaz. vol. 182; p. 505.
Hunyadi Laszlo Company, Chicago, Ill. Wheat-flour and cereal breakfast food. No. 86,914; June 11; Gaz. vol. 179; p. 568.
Hupp Motor Car Co., Detroit, Mich. Automobiles. No. 85,247; Feb. 6; Gaz. vol. 175; p. 260.
Hurwitt, Geo. J., New York, N. Y. Antiseptic preparations for treatment of the mouth, throat, or nose. No. 88,885; Oct. 29; Gaz. vol. 183; p. 1302.
Husson, Edouard, Paris, France. Precious stones, pearls, pendants, medals, &c. No. 88,493; Sept. 24; Gaz. vol. 182; p. 966.
Hutchinson, Carrie T., South Brooksville, Me. Remedy for skin diseases. No. 89,659; Dec. 31; Gaz. vol. 185; p. 1375.
Hutchinson, Job, New York, N. Y. Egg-beaters, cream-whippers, &c. No. 88,297; Sept. 10; Gaz. vol. 182; p. 505.
Hutchinson-Kansas Salt Company, The, Hutchinson, Kans. Salt. No. 86,991; June 18; Gaz. vol. 179; p. 847.
Hydraulic Press Brick Co., St. Louis, Mo. Brick. No. 87,213; July 2; Gaz. vol. 180; p. 317.
Hydrex Felt & Engineering Company, Portland, Me.; New York, N. Y., and Rahway, N. J. Building, sheathing, roofing, &c., papers. No. 86,299; Apr. 30; Gaz. vol. 177; p. 1292.
Hydrex Felt & Engineering Company, Portland, Me.; New York, N. Y., and Rahway, N. J. Building, sheathing, roofing, &c., papers. No. 88,298; Sept. 10; Gaz. vol. 182; p. 505.
Hydroil Company, The, Franklin, Pa., assignor to The Hydroil Company. Lubricant. No. 88,754; Oct. 22; Gaz. vol. 183; p. 1028.
Hygeia Distilled Water Company, The, New York, N. Y. Ginger-ale, sarsaparilla, and lemon-soda. No. 88,886; Oct. 29; Gaz. vol. 183; p. 1303.
Hygienic Fibre Company, New York, N. Y. Napkins. Nos. 87,537–8; July 23; Gaz. vol. 180; p. 1133.
Hygienic Fibre Company, New York, N. Y. Absorbent cotton. Nos. 87,763–4; Aug. 6; Gaz. vol. 181; p. 261.

Alphabetical list of registrants of trade-marks—Continued.

Hygienic Fibre Company, New York, N. Y. Napkins. Nos. 88,299–301; Sept. 10; Gaz. vol. 182; p. 505.
Hygienic Fibre Company, New York, N. Y. Absorbent cotton. No. 88,494; Sept. 24; Gaz. vol. 182; p. 966.
Hygienic Fibre Company, New York, N. Y. Washable napkins. No. 88,887; Oct. 29; Gaz. vol. 183; p. 1303.
Hygienic Fibre Company, New York, N. Y. Baby-diaper and bird's-eye napkins. No. 88,888; Oct. 29; Gaz. vol 183; p. 1303.
Hygienic Fibre Company, New York, N. Y. Absorbent cotton. Nos. 89,113–14; Nov. 12; Gaz. vol. 184; p. 546.
Hygienic Products Company, The, Canton, Ohio. Cleaning-powder. No. 86,062; Apr. 9; Gaz. vol. 177; p. 520.
Hygrade Water & Soda Co., St. Louis, Mo. Distilled and carbonated water, flavored beverages, &c. No. 89,365; Dec. 10; Gaz. vol. 185; p. 520.
Hylin & Co. Fabriks Aktiebolag, Stockholm, Sweden. Shaving-soap. No. 85,585; Feb. 27; Gaz. vol. 175; p. 1094.
Hyman & Oppenheim, New York, N. Y. Hair-bangs. No. 88,755; Oct. 22; Gaz. vol. 183; p. 1028.
I. B. Kleinert Rubber Company, New York, N. Y. Dress-shields. No. 85,451; Feb. 20; Gaz. vol. 175; p. 838.
I. B. Kleinert Rubber Company, New York, N. Y. Dress-shields. No. 86,540; May 14; Gaz. vol. 178; p. 588.
I. B. Kleinert Rubber Company, New York, N. Y. Dress-shields. No. 87,897; Aug. 13; Gaz. vol. 181; p. 536.
I. O. U. Company, New York, N. Y. Trading-coupons. No. 84,747; Jan. 2; Gaz. vol. 174; p. 284.
I. X. L. Poison Fly Paper Company. (See Holway, Alvah W., assignor.)
Ica Actien-Gesellschaft, Dresden, Germany. Certain measuring and scientific appliances. No. 87,075; June 25; Gaz. vol. 179; p. 1102.
Iceless Ice Box Company, Chicago, Ill. Certain refrigerating devices. No. 87,453; July 16; Gaz. vol. 180; p. 874.
Idaho Soap Company, Limited, Boise, Idaho. Washing-soap. No. 87,076; June 25; Gaz. vol. 179; p. 1102.
Ideal Auto Company, Fort Wayne, Ind. Automobiles and autotrucks. No. 86,300; Apr. 30; Gaz. vol. 177; p. 1292.
Ideal Motor Car Company, assignor to Ideal Motor Car Company, Indianapolis, Ind. Automobiles, trucks, and similar vehicles. No. 89,185; Nov. 19; Gaz. vol. 184; p. 799.
Ideal Ventilator Co., Boston, Mass., and Providence, R. I. Ventilators. No. 87,765; Aug. 6; Gaz. vol. 181; p. 261.
Idun Wafer Company, Inc., The, New York, N. Y. Edible wafers. No. 89,660; Dec. 31; Gaz. vol. 185; p. 1375.
Ignition Starter Company, Grand Rapids, Mich. Engine-starting devices. No. 87,999; Aug. 20; Gaz. vol. 181; p. 816.
Illinois Canning Company, The, Hoopeston, Ill. Canned corn. No. 84,967; Jan. 16; Gaz. vol. 174; p. 824.
Illinois Canning Company, Hoopeston, Ill. Canned corn. Nos. 85,248–51; Feb. 6; Gaz. vol. 175; p. 260.
Illinois Canning Company, Hoopeston, Ill. Canned corn. No. 85,443; Feb. 20; Gaz. vol. 175; p. 838.
Illinois Canning Company, The, Hoopeston, Ill. Canned kidney-beans. No. 88,302; Sept. 10; Gaz. vol. 182; p. 505.
Illinois Iron & Bolt Co., Carpentersville, Ill. Jack-screws, tire benders and shrinkers. No. 85,252; Feb. 6; Gaz. vol. 175; p. 260.
Illinois Iron & Bolt Co., Carpentersville, Ill. Steel carriage, wagon, and buggy axles. No. 86,992; June 18; Gaz. vol. 179; p. 847.
Illinois Iron & Bolt Co., Carpentersville, Ill. Steel warehouse-trucks. No. 87,342; July 9; Gaz. vol. 180; p. 598.
Illinois Malleable Iron Co., Chicago, Ill. Certain named hardware and plumbing and steam-fitting supplies. No. 89,661; Dec. 31; Gaz. vol. 185; p. 1375.
Illinois Watch Case Co., Elgin, Ill. Watchcases. No. 85,864; Mar. 26; Gaz. vol. 176; p. 1065.
Illoway, Nettie, New York, N. Y. Collar-supporters. No. 87,454; July 16; Gaz. vol. 180; p. 874.
Imo Chemical Company, New York, N. Y. Mouth-wash and remedy for diseased mucous membranes. No. 89,115; Nov. 12; Gaz. vol. 184; p. 546.
Imperial Merchandise Co., Perry, Ohio. Fruit-jar rings. No. 89,662; Dec. 31; Gaz. vol. 185; p. 1375.
Imperial Rubber Co., New York, N. Y. Certain electrical supplies. No. 85,967; Apr. 2; Gaz. vol. 177; p. 236.
Imperial Rubber Co., New York, N. Y. Certain electrical supplies. No. 88,628; Oct. 8; Gaz. vol. 183; p. 499.
Imperial Rubber Co., New York, N. Y. Certain named hose, belting, valves, packing, &c. No. 89,467; Dec. 17; Gaz. vol. 185; p. 824.
Importers Coffee Co., Ltd., New Orleans, La. Coffee. No. 89,558; Dec. 24; Gaz. vol. 185; p. 1050.
Incorporated Printsellers' Association, The, London, England. Engravings, prints, and etchings. No. 87,766; Aug. 6; Gaz. vol. 181; p. 261.
Independent Brewing Co., The, Seattle, Wash. Beer. No. 88,756; Oct. 22; Gaz. vol. 183; p. 1028.
Independent Powder Co. of Missouri, Joplin, Mo. Dynamite. No. 87,343; July 9; Gaz. vol. 180; p. 598.
Independent Powder Company of Missouri, Joplin, Mo. Dynamite and powder. No. 85,353; Feb. 13; Gaz. vol. 175; p. 538.
Independent Salt Co., Brooklyn, N. Y. Salt. No. 85,865; Mar. 26; Gaz. vol. 176; p. 1065.
Indian Refining Company, Inc., Augusta, Me., and Cincinnati, Ohio. Lubricating-oils. No. 86,409; May 7; Gaz. vol. 178; p. 314.
Indoor Rugby Company, New York, N. Y. Indoor games. 85,351; Feb. 13; Gaz. vol. 175; p. 538.
Industrial Thrown Silk Co., New York, N. Y. Silk. No. 87,632; July 30; Gaz. vol. 180; p. 1388.
Ingenohl, Carl, Antwerp, Belgium, and Manila, Philippine Islands. Cigars and cigarettes. Nos. 86,533–5; May 14; Gaz. vol. 178; p. 588.
Ingersoll-Rand Company, Phillipsburg, N. J., and New York, N. Y. Rock-drills. No. 85,658; Mar. 5; Gaz. vol. 176; p. 269.
Ingersoll-Rand Company, Phillipsburg, N. J., and New York, N. Y. Lubricating-oils. No. 85,906; Mar. 26; Gaz. vol. 176; p. 1066.
Ingersoll-Rand Company, Phillipsburg, N. J., and New York, N. Y. Rock-drills. No. 85,907; Mar. 26; Gaz. vol. 176; p. 1067.
Ingersoll-Rand Co., Phillipsburg, N. J., and New York, N. Y. Metal used in castings. No. 86,301; Apr. 30; Gaz. vol. 177; p. 1292.
Ingersoll-Rand Co., Phillipsburg, N. J., and New York, N. Y. Oiling devices for fluid-operated tools. No. 87,633; July 30; Gaz. vol. 180; p. 1388.
Ink, Harry H., Canton, Ohio. Remedy for ailments of the mouth and throat. No. 84,746; Jan. 2; Gaz. vol. 174; p. 284.
Inter-State News Company, Portland, Me., and New York, N. Y. Cigars, cigarettes, and tobaccos. No. 89,267; Dec. 3; Gaz. vol. 185; p. 244.
International Accessories Manufacturing Company, New York, N. Y. Carbureters. No. 86,710; May 28; Gaz. vol. 178; p. 1148.
International Catholic Truth Society, New York, N. Y. Periodicals or newspapers. No. 89,369; Dec. 10; Gaz. vol. 185; p. 520.
International Chewing Gum Company, New York, N. Y. Base used in the manufacture of chewing-gum. No. 87,767; Aug. 6; Gaz. vol. 181; p. 261.
International Color & Mfg. Co., Chicago, Ill. Leather-burnish. No. 89,468; Dec. 17; Gaz. vol. 185; p. 824.
International Ink Co., Los Angeles, Cal. Writing fluid. No. 86,993; June 18; Gaz. vol. 179; p. 847.
International Lead Refining Company, East Chicago, Ind., and New York, N. Y. Lead. Nos. 89,559–61; Dec. 24; Gaz. vol. 185; p. 1050.
International Mfg. Co., Ann Arbor, Mich. Certain household furniture. No. 85,253; Feb. 6; Gaz. vol. 175; p. 260.
International Mfg. Co., Phillips, Me. Toothpicks. No. 86,302; Apr. 30; Gaz. vol. 177; p. 1292.
International Paper Co., New York, N. Y. Concentrated waste lyes. No. 87,768; Aug. 6; Gaz. vol. 181; p. 261.
International Phonograph Company, Newark, N. J. Phonographs and parts thereof, &c. No. 88,541; Sept. 24; Gaz. vol. 182; p. 968.
International Shoe Company. (See Roberts, Johnson & Rand Shoe Company, assignor.)
International Shoe Company, St. Louis, Mo. Boots and shoes. No. 88,757; Oct. 22; Gaz. vol. 183; p. 1028.
Internationale Magnesiet Werken, Rotterdam, Netherlands. Magnesite. No. 89,370; Dec. 10; Gaz. vol. 185; p. 520.
Interstate Commerce Co. Inc., Richmond, Va. Flavoring extracts, imitation fruit flavors, and spices. No. 87,891; Aug. 13; Gaz. vol. 181; p. 536.
Interstate Commerce Co., Inc., Richmond, Va. Root-beer and cherry-punch. No. 88,000; Aug. 20; Gaz. vol. 181; p. 816.
Interstate Medical Company, The, Kingsley, Iowa. Antiseptic and germicidal ointments. No. 86,805; June 4; Gaz. vol. 179; p. 282.
Interwoven Stocking Company, New Brunswick, N. J. Hosiery. No. 86,994; June 18; Gaz. vol. 179; p. 847.
Invincible Aluminum Company, New York, N. Y. Aluminum ware. No. 88,303; Sept. 10; Gaz. vol. 182; p. 505.
Ipswich Mills, Boston, Mass. Hosiery. No. 84,968; Jan. 16; Gaz. vol. 174; p. 824.
Ireland & Kreppel, Norristown, Pa. Extract of coffee. No. 87,634; July 30; Gaz. vol. 180; p. 1388.
Irish Linen Mesh Co. Ltd., The, Belfast, Ireland. Certain named articles of clothing for men and women. No. 89,366; Dec. 10; Gaz. vol. 185; p. 520.
Ironsides Company, Columbus, Ohio. Paints, varnishes, and paint-oils. No. 88,304; Sept. 10; Gaz. vol. 182; p. 505.
Ironsides Company, Columbus, Ohio. Lubricating oils, greases, and compounds. No. 88,305; Sept. 10; Gaz. vol. 182; p. 505.
Ironsides Company, The, Columbus, Ohio. Cable and rope fillers. Nos. 88,574–5; Oct. 1; Gaz. vol. 183; p. 214.
Ironsides Company, The, Columbus, Ohio. Lubricating oils and greases. Nos. 88,889–90; Oct. 29; Gaz. vol. 183; p. 1303.

Alphabetical list of registrants of trade-marks—Continued.

Ironsides Company, The, Columbus, Ohio. Lubricating oils, greases, and compounds. No. 89,664; Dec. 31; Gaz. vol. 185; p. 1375.
Iroquois Iron Works, Buffalo, N. Y. Fire-wagons and melting-kettles. No. 85,818; Mar. 19; Gaz. vol. 176; p. 746.
Irving Hat Co., New York, N. Y. Hats and caps. No. 85,970; Apr. 2; Gaz. vol. 177; p. 236.
Irving Hat Co., New York, N. Y. Hats and caps. No. 86,711; May 28; Gaz. vol. 178; p. 1148.
Irwin, James W., Philadelphia, Pa. Embalming fluid. No. 87,539; July 23; Gaz. vol. 180; p. 1133.
Ising, Charles E., New York, N. Y. Certain pharmaceutical preparations. No. 87,540; July 23; Gaz. vol. 180; p. 1134.
Isleworth Grove Company, Jacksonville, Fla. Oranges, grape-fruit, and tangerines. No. 86,410; May 7; Gaz. vol. 178; p. 314.
"Italia" Fabbrica di Automobili, Turin, Italy. Internal-combustion engines. Nos. 87,456–7; July 16; Gaz. vol. 180; p. 875.
Italian Musical String Co., Newark, N. J., and New York, N. Y. Musical-instrument strings. No. 87,541; July 23; Gaz. vol. 180; p. 1134.
Italian-Swiss Colony, San Francisco, Cal. Wine. No. 85,586; Feb. 27; Gaz. vol. 175; p. 1094.
Ithaca Gun Company, The, Ithaca, N. Y. Rifles, shotguns, and revolvers. No. 86,911; June 11; Gaz. vol. 179; p. 568.
Ivory Clasp & Garter Co., New Orleans, La. Garters. No. 87,542; July 23; Gaz. vol. 180; p. 1134.
Iwasaki, Jujiro, Tokyo, Japan. Japanese soy. No. 87,214; July 2; Gaz. vol. 180; p. 317.
J. Judd Mason & Co., East Orange, N. J., and New York, N. Y. Castor-oil. No. 87,086; June 25; Gaz. vol. 179; p. 1102.
J. A. Fay & Egan Company, Cincinnati, Ohio. Flooring, surfacing, tenoning, &c., machines. No. 85,236; Feb. 6; Gaz. vol. 175; p. 259.
J. A. Henckels, New York, N. Y. Razors. Nos. 88,286–8; Sept. 10; Gaz. vol. 182; pp. 504–5.
J. A. Pozzoni Pharmacal Co., The, Chicago, Ill. Rouge. No. 89,697; Dec. 31; Gaz. vol. 185; p. 1376.
J. B. Williams Company, Glastonbury, Conn. Shaving and toilet soaps. No. 86,854; June 4; Gaz. vol. 179; p. 283.
J. B. Williams Company, The, Glastonbury, Conn. Shaving and toilet soaps. No. 87,133; June 25; Gaz. vol. 179; p. 1104.
J. B. Williams Company, The, Glastonbury, Conn. Shaving and toilet soaps. Nos. 87,832–3; Aug. 6; Gaz. vol. 181; p. 263.
J. C. Blair Company, Huntingdon, Pa. Paper and stationery. Nos. 86,029–30; Apr. 9; Gaz. vol. 177; p. 519.
J. C. Blair Company, Huntingdon, Pa. Certain stationery supplies. No. 86,270; Apr. 30; Gaz. vol. 177; p. 1291.
J. C. Blair Company, Huntingdon, Pa. Paper and stationery. No. 86,509; May 14; Gaz. vol. 178; p. 587.
J. C. Blair Company, Huntingdon, Pa. Certain paper and stationery. Nos. 87,409–17; July 16; Gaz. vol. 180; p. 873.
J. C. Blair Company, Huntingdon, Pa. Paper, envelops, and tablets. No. 87,972; Aug. 20; Gaz. vol. 181; p. 815.
J. C. Blair Company, Huntingdon, Pa. Paper, envelops, tablets, and blank books. Nos. 88,233–4; Sept. 10; Gaz. vol. 182; p. 503.
J. C. Blair Company, Huntingdon, Pa. Paper, envelops, tablets, and blank books. Nos. 88,459–63; Sept. 24; Gaz. vol. 182; p. 965.
J. C. Blair Company, Huntingdon, Pa. Paper, envelops, tablets, and blank books. No. 89,320; Dec. 3; Gaz. vol. 185; p. 246.
J. D. Bourdeau Co., Detroit, Mich. Laxative cereal food. No. 84,812; Jan. 9; Gaz. vol. 174; p. 579.
J. D. Riedel Aktiengesellschaft, Berlin, Germany. Preparations for treating bronchial catarrhs. No. 88,639; Oct. 8; Gaz. vol. 183; p. 500.
J. D. Riedel Aktiengesellschaft, Berlin, Germany. Preparations for treating paralysis and nervous and mental diseases. No. 88,640; Oct. 8; Gaz. vol. 183; p. 500.
J. D. Riedel Actien Gesellschaft, Berlin, Germany. Aperients. No. 88,953; Oct. 29; Gaz. vol. 183; p. 1304.
J. D. Riedel Aktiengesellschaft, Berlin, Germany. Toothpastes. No. 89,596; Dec. 31; Gaz. vol. 185; p. 1373.
J. & E. Atkinson, Limited, London, England. Certain named toilet preparations. No. 89,607; Dec. 31; Gaz. vol. 185; p. 1373.
J. E. Scott Cup Co., The, Marietta, Ohio. Leather valve-cups. No. 89,510; Dec. 17; Gaz. vol. 185; p. 825.
J. F. Hillerich & Son Co. Incorporated, Louisville, Ky. Base-ball bats. No. 87,209; July 2; Gaz. vol. 180; p. 317.
J. G. Davis Co., Rochester, N. Y. Wheat-flour. No. 85,650; Mar. 5; Gaz. vol. 176; p. 269.
J. G. Peppard Seed Co., Kansas City, Mo. Poultry food. No. 88,355; Sept. 10; Gaz. vol. 182; p. 506.
J. G. Shaw Blank Book Company, New York, N. Y. Certain named articles of stationery. No. 88,964; Oct. 29; Gaz. vol. 183; p. 1305.
J. G. Shaw Blank Book Company, New York, N. Y. Certain named covered and bound books. No. 89,584; Dec. 24; Gaz. vol. 185; p. 1050.
J. H. Merrill Co., Ottumwa, Iowa. Certain named foods. Nos. 88,908–9; Oct. 29; Gaz. vol. 183; p. 1303.
J. H. Williams & Co., New York, N. Y. Certain named tools. No. 88,987; Oct. 29; Gaz. vol. 183; p. 1305.
J. J. Saville & Company, Limited, Sheffield, England. Tool-steel. No. 85,920; Mar. 26; Gaz. vol. 176; p. 1067.
J. M. Paver Company, The, Chicago, Ill. Canned Lima beans, asparagus, beets, hominy, &c. No. 88,419; Sept. 17; Gaz. vol. 182; p. 717.
J. N. Adam & Co., Buffalo, N. Y. Wheat-flour. No. 87,583; July 30; Gaz. vol. 180; p. 1387.
J. S. Brown & Bro. Mer. Co., The, Denver, Colo. Certain foods. Nos. 86,273–4; Apr. 30; Gaz. vol. 177; p. 1291.
J. T. Kenny & Company, St. Paul, Minn. Soda crystals. No. 88,892; Oct. 29; Gaz. vol. 183; p. 1303.
J. W. Brant Company Limited, Albion, Mich. Remedies for nervous diseases. No. 85,321; Feb. 13; Gaz. vol. 175; p. 537.
J. W. Butler Paper Company, Chicago, Ill. Writing-paper. No. 88,466; Sept. 24; Gaz. vol. 182; p. 965.
J. W. Spear & Söhne, Kommanditgesellschaft, Papierwaren- u. Spielefabrik, Doos, near Nuremberg, Germany. Toys and games. No. 87,272; July 2; Gaz. vol. 180; p. 319.
Jackson-Church-Wilcox Co., Saginaw, Mich. Steering-gears. No. 86,912; June 11; Gaz. vol. 179; p. 568.
Jackson Corset Company, Jackson, Mich. Corsets. No. 86,995; June 18; Gaz. vol. 179; p. 847.
Jackson-Eno Rubber Company, Los Angeles, Cal. Inner-shoe tire-casings for automobiles. No. 86,806; June 4; Gaz. vol. 179; p. 282.
Jackson Eno Rubber Company, Los Angeles, Cal. Rubber tires. No. 89,117; Nov. 12; Gaz. vol. 184; p. 546.
Jackson, Thomas C., Philadelphia, Pa. Surgical appliance. No. 89,268; Dec. 3; Gaz. vol. 185; p. 244.
Jacob E. Decker & Sons, Mason City, Iowa. Hams and bacon. No. 87,176; July 2; Gaz. vol. 180; p. 316.
Jacob J. Vollrath Mfg. Co., The, Sheboygan, Wis. Cuspidors. No. 89,210; Nov. 19; Gaz. vol. 184; p. 800.
Jafnel, Otto B., Liberty, N. Y. Remedy for the scalp. No. 86,808; June 4; Gaz. vol. 179; p. 282.
Jago Mfg. Co., Houston, Tex. Metal-polish. No. 89,116; Nov. 12; Gaz. vol. 184; p. 546.
James A. Blanchard Company, The, New York, N. Y., and St. Joseph, Mich. Disinfectants, insecticides, and pharmaceutical preparations. No. 88,157; Sept. 3; Gaz. vol. 182; p. 243.
James Dawson & Son Ld., Boultham, Lincoln, England. Cotton and balata belting. No. 84,820; Jan. 9; Gaz. vol. 174; p. 579.
James, Edward, Cleveland, Ohio. Rubber heels. No. 89,665; Dec. 31; Gaz. vol. 185; p. 1375.
James, Emile, New York, N. Y. Machine-needles. No. 87,892; Aug. 13; Gaz. vol. 181; p. 536.
James H. Rhodes & Company, Chicago, Ill., and New York, N. Y. Chamois-skins. Nos. 88,589–90; Oct. 1; Gaz. vol. 183; p. 214.
James McCord Company. (See Sprague, Warner & Company.)
James McDougall Limited, Wednesbury, England. Pipes, tubes, and conduits. No. 86,796; June 4; Gaz. vol. 179; p. 281.
James R. Keiser, Inc., New York, N. Y. Handkerchiefs and kerchiefs. No. 87,080; June 25; Gaz. vol. 179; p. 1102.
James R. Keiser, Inc., New York, N. Y. Kerchiefs and handkerchiefs. No. 87,545; July 23; Gaz. vol. 180; p. 1134.
James R. Keiser, Inc., New York, N. Y. Handkerchiefs and kerchiefs. No. 87,772; Aug. 6; Gaz. vol. 181; p. 261.
James S. Kirk & Company, Chicago, Ill. Toilet soap. No. 88,091; Aug. 27; Gaz. vol. 181; p. 1068.
James S. Kirk & Company, Chicago, Ill. Toilet and laundry soap. No. 89,120; Nov. 12; Gaz. vol. 184; p. 546.
James Spicer & Sons, Limited, London, England. Cooking-paper. No. 86,629; May 21; Gaz. vol. 178; p. 880.
James, Thomas, and J. Caprinali, Colorado Springs, Colo. Remedy for rheumatism. No. 85,445; Feb. 20; Gaz. vol. 175; p. 838.
James Van Dyk Company, New York, N. Y. Coffee. No. 88,434; Sept. 17; Gaz. vol. 182; p. 718.
James Walker and Company Limited. (See Walker & Co., James, assignor.)
James Watson & Company, Limited, Dundee, Scotland. Whisky. No. 86,355; Apr. 30; Gaz. vol. 177; p. 1293.
James, William H., Shippensburg, Pa. Medicinal tonic. No. 88,681; Oct. 15; Gaz. vol. 183; p. 778.
James, William T., Chicago, Ill. Medicaments for the skin. No. 84,969; Jan. 16; Gaz. vol. 174; p. 824.
Jameson & Metzler, New York, N. Y. Pocket-books. No. 85,130; Jan. 30; Gaz. vol. 174; p. 1213.
Jamestown Brewing Company, Jamestown, N. Y. Beer. No. 85,866; Mar. 26; Gaz. vol. 176; p. 1065.
Janney, Semple, Hill & Co., Minneapolis, Minn. Certain hardware, cooking utensils, and wire-cloth. No. 84,748; Jan. 2; Gaz. vol. 174; p. 284.

Alphabetical list of registrants of trade-marks—Continued.

Japanese Tissue Mills, Holyoke, Mass. Paper towels and napkins. No. 85,354; Feb. 13; Gaz. vol. 175; p. 538.
Japanese Tissue Mills, Holyoke, Mass. Toilet-paper. Nos. 85,659–60; Mar. 5; Gaz. vol. 176; p. 269.
Jaques Mfg. Co., Chicago, Ill. Baking-powder. No. 86,807; June 4; Gaz. vol. 179; p. 282.
Jaynes Drug Company, Boston, Mass. Cigars. No. 87,077; June 25; Gaz. vol. 179; p. 1102.
Jaynes Drug Co., Boston, Mass. Cigars. Nos. 89,371–2; Dec. 10; Gaz. vol. 185; p. 520.
Jefferson, Edward Z., Sewickley, Pa. Certain rubber goods. No. 86,712; May 28; Gaz. vol. 178; p. 1148.
Jefferson, Edward Z., Pittsburgh, Pa. Belting, hose, and machinery packing. No. 86,856; June 4; Gaz. vol. 179; p. 283.
Jefferson, George F., Houston, Tex. Bread. No. 86,063; Apr. 9; Gaz. vol. 177; p. 520.
Jenckes Spinning Company, Pawtucket, R. I. Cotton textiles. No. 87,769; Aug. 6; Gaz. vol. 181; p. 261.
Jenkins Rubber Co., Elizabeth, N. J. Rubber packing, gaskets, disks, &c. No. 86,536; May 14; Gaz. vol. 178; p. 588.
Jenkins, Samuel M., Louisville, Ky. Lubricating apparatus. No. 89,269; Dec. 3; Gaz. vol. 185; p. 244.
Jennison-Wright Co., The, Toledo, Ohio. Paving materials. No. 85,355; Feb. 13; Gaz. vol. 175; p. 538.
Jensen, Franz G., Springfield, Mass. Candy. No. 85,131; Jan. 30; Gaz. vol. 174; p. 1213.
Jewel Cotton Mills, Thomasville, N. C. Cotton yarns. No. 89,669; Dec. 31; Gaz. vol. 185; p. 1375.
Jewett & Sherman Company, Milwaukee, Wis. Coffees and certain spices. No. 85,661; Mar. 5; Gaz. vol. 176; p. 269.
Jiffy Auto Curtain Co., Chicago, Ill. Automobile-curtains. No. 88,495; Sept. 24; Gaz. vol. 182; p. 966.
Joachim, Hermann B. G., Paris, France. Gas-lighting apparatus. No. 86,537; May 14; Gaz. vol. 178; p. 588.
Joel Baily Davis Company, Philadelphia, Pa. Knitted and textile underwear. No. 89,528; Dec. 24; Gaz. vol. 185; p. 1049.
Joe's Ointment Company, The, Unionville, Pa. Certain ointment. No. 87,544; July 23; Gaz. vol. 180; p. 1134.
John Blaul's Sons Co., Burlington, Iowa. Certain foods. No. 88,998; Nov. 5; Gaz. vol. 184; p. 281.
John C. Nichols Harness Manufacturing Company, Janesville, Wis. Harness. No. 86,931; June 11; Gaz. vol. 179; p. 569.
John Carter and Company, Incorporated, Boston, Mass. Writing and printing paper. No. 85,845; Mar. 26; Gaz. vol. 176; p. 1065.
John Chatellon & Sons, New York, N. Y. Weighing-scales. Nos. 89,223–4; Dec. 3; Gaz. vol. 185; p. 243.
John English Baking Company, Troy, N. Y. Bread. No. 87,613; July 30; Gaz. vol. 180; p. 1388.
John F. Jelke Company, Chicago, Ill. Oleomargarin. No. 86,411; May 7; Gaz. vol. 178; p. 314.
John Gosnell & Co., Ltd., London, England. Tooth-paste. No. 89,108; Nov. 12; Gaz. vol. 184; p. 546.
John Harvey and Sons, Limited, Bristol, England. Whisky. No. 87,447; July 16; Gaz. vol. 180; p. 874.
John Hoffmann & Sons Co., Milwaukee, Wis. Blended coffee. No. 85,966; Apr. 2; Gaz. vol. 177; p. 236.
John Hofman Co., Rochester, N. Y. Show-cases, wardrobes, window-backs, &c. No. 86,531; May 14; Gaz. vol. 178; p. 588.
John Jaques & Son, Ltd., London, England. Game. No. 87,543; July 23; Gaz. vol. 180; p. 1134.
John Lauson Manufacturing Company, The. New Holstein, Wis. Gas-engines. No. 89,472; Dec. 17; Gaz. vol. 185; p. 824.
John M. Given, Inc., Pittsburgh, Pa.; New York, N. Y., and Chicago, Ill. Hosiery. Nos. 85,240–1; Feb. 6; Gaz. vol. 175; p. 260.
John M. Given, Inc., Pittsburgh, Pa.; New York, N. Y., and Chicago, Ill. Hosiery. No. 89,647; Dec. 31; Gaz. vol. 185; p. 1374.
John Rugheimer Sons, Charleston, S. C. Overcoats, coats, waistcoats, and trousers. No. 86,459; May 7; Gaz. vol. 178; p. 316.
John Russell Cutlery Company, Turners Falls, Mass. Pocket-knives. No. 89,503; Dec. 17; Gaz. vol. 185; p. 825.
John V. Farwell Company, Chicago, Ill. Handkerchiefs. No. 86,899; June 11; Gaz. vol. 179; p. 568.
John Wyeth & Brother, Incorporated, Philadelphia, Pa. Remedy for certain ailments. No. 86,114; Apr. 9; Gaz. vol. 177; p. 521.
John Wyeth & Brother, Incorporated, Philadelphia, Pa. Certain medicine. No. 86,115; Apr. 9; Gaz. vol. 177; p. 521.
John Wyeth & Brother, Incorporated, Philadelphia, Pa. Antiseptic and disinfectant. No. 89,318; Dec. 3; Gaz. vol. 185; p. 246.
John Wyeth & Brother, Incorporated, Philadelphia, Pa. Medicinal preparation. No. 89,727; Dec. 31; Gaz. vol. 185; p. 1377.
Johnson-Allen Coffee Co., St. Louis, Mo. Coffee. Nos. 85,446–8; Feb. 20; Gaz. vol. 175; p. 838.
Johnson-Allen Coffee Co., St. Louis, Mo. Coffee. No. 88,891; Oct. 29; Gaz. vol. 183; p. 1303.
Johnson Biscuit Company, Sioux City, Iowa. Candy. No. 86,596; May 21; Gaz. vol. 178; p. 880.
Johnson, Fannie, Lamonte, Mo. Remedy for coughs, colds, bronchitis, &c. No. 87,215; July 2; Gaz. vol. 180; p. 317.
Johnson, George A., Attica, Ind. Remedy for stomach diseases. No. 86,224; Apr. 23; Gaz. vol. 177; p. 1039.
Johnson, Henry E., Grand Junction, Colo. Remedies for asthma, hay-fever, croup, &c. No. 84,778; Jan. 2; Gaz. vol. 174; p. 285.
Johnson, James L., Plymouth, Mich. Remedy for liver ills. No. 88,496; Sept. 24; Gaz. vol 182; p. 966.
Johnson & Johnson, New Brunswick, N. J. Soaps. No. 88,088; Aug. 27; Gaz. vol. 181; p. 1068.
Johnson & Johnson, New Brunswick, N. J. Medicinal plasters. No. 89,118; Nov. 12; Gaz. vol. 184; p. 546.
Johnson-Locke Mercantile Co., The, San Francisco, Cal. Canned fruits. No. 86,303; Apr. 30; Gaz. vol. 177; p. 1292.
Johnson-Locke Mercantile Co., The, San Francisco, Cal. Canned fruits. No. 86,597; May 21; Gaz. vol. 178; p. 880.
Johnston Fruit Co. (Inc.), Santa Barbara, Cal. Oranges and lemons. No. 87,635; July 30; Gaz. vol. 180; p. 1388.
Johnstone, Robert L., New York, N. Y. Chewing-gum. No. 85,750; Mar. 12; Gaz. vol. 176; p. 522.
Jones, John Z., Gulfport, Miss. Anticorrosive charcoal paint for iron and steel surfaces and structures. No. 89,666; Dec. 31; Gaz. vol. 185; p. 1375.
Jones, Walter D., Redgranite, Wis. Medicinal preparation. No. 85,135; Jan. 30; Gaz. vol. 174; p. 1213.
Jönköpings och Vulcans Tändsticksfabriksaktiebolag Jönköping, Sweden. Matches. Nos. 87,216–17; July 2; Gaz vol. 180; p. 317.
Jönköpings och Vulcans Tändsticksfabriksaktiebolag, Jönköping, Sweden. Matches. Nos. 88,497–8; Sept. 24; Gaz. vol. 182; p. 966.
Jönköpings och Vulcans Tändsticksfabriksaktiebolag, Jököping, Sweden. Matches. No. 89,373; Dec. 10; Gaz. vol. 185; p. 520.
Jos. Middleby, Jr., Inc., Boston, Mass. Pie-fillings. No. 85,463; Feb. 20; Gaz. vol. 175; p. 839.
Jos. Middleby, Jr., Inc., Boston, Mass. Pie-fillings. No. 87,903; Aug. 13; Gaz. vol. 181; p. 537.
Jos. Schlitz Brewing Company, Milwaukee, Wis. Lager-beer. No. 87,489; July 16; Gaz. vol. 180; p. 875.
Joseph Bancroft & Sons Co., Wilmington, Del. Book-cloths. No. 88,727; Oct. 22; Gaz. vol. 183; p. 1027.
Joseph Bancroft & Sons Co., Wilmington, Del. Window-shade fabric. No. 88,728; Oct. 22; Gaz. vol. 183; p. 1027.
Joseph Barnett & Company, Riverside, Iowa. Lightning-rods and fixtures for same. No. 88,610; Oct. 8; Gaz. vol. 183; p. 499.
Joseph Benn & Sons, Inc., Greystone, R. I. Alpaca and mohair piece goods. No. 86,027; Apr. 9; Gaz. vol. 177; p. 519.
Joseph Black & Sons Company, New York, N. Y. Stockings. No. 88,729; Oct. 22; Gaz. vol. 183; p. 1027.
Joseph Dixon Crucible Co., Jersey City, N. J. Lubricating-grease. Nos. 85,799–800; Mar. 19; Gaz. vol. 176; p. 745.
Joseph G. Dill, Inc., Richmond, Va. Tobacco, cigars, and cigarettes. No. 88,557; Oct. 1; Gaz. vol. 183; p. 213.
Joseph H. Meyer Bros., New York, N. Y. Artificial pearls. No. 89,282; Dec. 3; Gaz. vol. 185; p. 245.
Joseph, Hans, Schöneberg, Germany. Certain game. No. 87,218; July 2; Gaz. vol. 180; p. 317.
Joseph T. Ryerson & Son, Chicago, Ill. Steel plates. No. 87,660; July 30; Gaz. vol. 180; p. 1389.
Joslin Mfg. Co., Providence, R. I. Shoe and corset lacings. No. 87,770; Aug. 6; Gaz. vol. 181; p. 261.
Joyce, Peter A., Detroit, Mich. Salves. No. 89,270; Dec. 3; Gaz. vol. 185; p. 244.
Judd & Leland M'f'g Co., Clifton Springs, N. Y. Hand air-pumps. No. 85,254; Feb. 6; Gaz. vol. 175; p. 260.
Juliet Co., The, New York, N. Y. Medicated sleeping-glove. No. 89,186; Nov. 19; Gaz. vol. 184; p. 799.
Juliet Co., The, New York, N. Y. Face-wax. No. 89,187; Nov. 19; Gaz. vol. 184; p. 799.
Julius King Optical Co., New York, N. Y. Eyeglass-mountings. No. 85,594; Feb. 27; Gaz. vol. 175; p. 1094.
Julius Levin Company, San Francisco, Cal. Whisky. No. 85,457; Feb. 20; Gaz. vol. 175; p. 838.
Jung & Sons Co., New Orleans, La. Coal. No. 87,771; Aug. 6; Gaz. vol. 181; p. 261.
Junod & Co., L. H., New York, N. Y. Embroideries. No. 87,893; Aug. 13; Gaz. vol. 181; p. 536.
Junoform Company, Philadelphia, Pa. Bust-reducers or flexible brassières. No. 88,306; Sept. 10; Gaz. vol. 182; p. 505.
K & C Manufacturing Company, Henniker, N. H. Wheel-rims. No. 85,356; Feb. 13; Gaz. vol. 175; p. 538.
Kaas, Louis A., Newark, N. J. Roach-powder. No. 86,809; June 4; Gaz. vol. 179; p. 282.
Kabus Rubber Company, New York, N. Y. Rubber erasers and bands. Nos. 85,867–8; Mar. 26; Gaz. vol. 176; p. 1065.

Alphabetical list of registrants of trade-marks—Continued.

Kaehler, George, Fresno, Cal. Oranges. No. 85,255; Feb. 6; Gaz. vol. 175; p. 260.
Kaesbach, Otto, Zaborze, Germany. Remedy for the nerves. No. 87,344; July 9; Gaz. vol. 180; p. 598.
Kahn-Beck Company, Los Angeles, Cal. Crackers, cakes, candy, and pastes. No. 89,374; Dec. 10; Gaz. vol. 185; p. 520.
Kalasiris, Fabrik für hyg. Unterkleidung, G. m. b. H., Bonn-on-the-Rhine, Germany. Women's costumes, blouses, and shirts-waists, night-dresses, &c. No. 85,256; Feb. 6; Gaz. vol. 175; p. 260.
Kalle & Co., Aktiengesellschaft, Biebrich, Germany. Preparation for the treatment of wounds. No. 89,119; Nov. 12; Gaz. vol. 184; p. 546.
Kallis, Isidore S., New York, N. Y. Automobile-trunks No. 85,357; Feb. 13; Gaz. vol. 175; p. 538.
Kalt-Zimmers Mfg. Co., Milwaukee, Wis. Shoes. No. 89,375; Dec. 10; Gaz. vol. 185; p. 520.
Kamenstein, Myer, New York, N. Y. Washboilers. No. 87,078; June 25; Gaz. vol. 179; p. 1102.
Kane, James F., Pittston, Pa. Laundry tablets. No. 89,376; Dec. 10; Gaz. vol. 185; p. 520.
Kann Sons & Co., S., Washington, D. C. Dress-shields. Nos. 85,588–90; Feb. 27; Gaz. vol. 175; p. 1094.
Kann Sons & Co., S., Washington, D. C. Dress-shields. No. 85,600; Feb. 27; Gaz. vol. 175; p. 1094.
Kansas City Automobile Supply Co., Kansas City, Mo. Spark-plugs. No. 86,913; June 11; Gaz. vol. 179; p. 568.
Kansas City Cotton Mills Company, Kansas City, Kans. Cotton duck. No. 87,079; June 25; Gaz. vol. 179; p. 1102.
Karp & London, Philadelphia, Pa. Hats and caps. No. 85,591; Feb. 27; Gaz. vol. 175; p. 1094.
Katahdin Pulp and Paper Company, Lincoln, Me. Lining, wrapping, printing, and writing papers. No. 86,304; Apr. 30; Gaz. vol. 177; p. 1292.
Kato Products Co., New York, N. Y. Belt-dressings. No. 85,592; Feb. 27; Gaz. vol. 175; p. 1094.
Kaufman, Lena, Philadelphia, Pa. Hosiery. No. 86,139; Apr. 16; Gaz. vol. 177; p. 765.
Kawneer Mfg. Co., Niles, Mich. Metal doors, windows, and moldings. No. 85,449; Feb. 20; Gaz. vol. 175; p. 838.
Keefer, William W., Lancaster, Pa. Root-beer, birch, sarsaparilla, soda, &c. No. 88,759; Oct. 22; Gaz. vol. 183; p. 1028.
Keeton-Krueger Co., Atlanta, Ga. Prepared stock feed. No. 86,140; Apr. 16; Gaz. vol. 177; p. 765.
Kehlor Flour Mills Company, St. Louis, Mo., and East St. Louis, Ill. Wheat-flour. No. 85,136; Jan. 30; Gaz. vol. 174; p. 1213.
Keim, Peter D., Kalamazoo, Mich. Card game. No. 85,819; Mar. 19; Gaz. vol. 176; p. 746.
Kelley-Clarke Co., Seattle, Wash. Canned salmon. No. 88,307; Sept. 10; Gaz. vol. 182; p. 505.
Kelley-How-Thomson Co., Duluth, Minn. Harness and horse-collars. No. 85,358; Feb. 13; Gaz. vol. 175; p. 538.
Kelley-How-Thomson Co., Duluth, Minn. Asphalt roofing. No. 85,751; Mar. 12; Gaz. vol. 176; p. 522.
Kelloggs & Miller, Amsterdam, N. Y. Oil-cake and oil-meal. No. 84,834; Jan. 9; Gaz. vol. 174; p. 580.
Kemper Mill & Elevator Company, Kansas City, Mo. Wheat-flour. No. 84,835; Jan. 9; Gaz. vol. 174; p. 580.
Kennedy, William, assignor to J. Simson, Montreal, Quebec, Canada. Sterilized water. No. 87,219; July 2; Gaz. vol. 180; p. 317.
Kent Manufacturing Company, New York, N. Y. Certain piece goods. No. 86,225; Apr. 23; Gaz. vol. 177; p. 1039.
Kent Manufacturing Company, New York, N. Y. Certain kinds of fabrics. No. 86,996; June 18; Gaz. vol. 179; p. 847.
Kentucky Farmers Tobacco Co., Hickman, Ky. Smoking and chewing tobacco. No. 89,667; Dec. 31; Gaz. vol. 185; p. 1375.
Kentucky Refining Co., Louisville, Ky. Cotton-seed oil. Nos. 84,972–3; Jan. 16; Gaz. vol. 174; p. 824.
Kentucky Refining Company, Louisville, Ky. Cotton-seed oil. No. 89,668; Dec. 31; Gaz. vol. 185; p. 1375.
Kentucky Supply Co., Memphis, Tenn. Gin. No. 85,820; Mar. 19; Gaz. vol. 176; p. 746.
Kentucky Wagon Mfg. Co., Louisville, Ky. Electrically-propelled road-vehicles. No. 89,188; Nov. 19; Gaz. vol. 184; p. 799.
Kerby, Vergil C., Toccoa, Ga. Poultry medicines. No. 89,271; Dec. 3; Gaz. vol. 185; p. 244.
Kessler Yeast Co., The, Columbus, Ohio. Yeast. No. 87,894; Aug. 13; Gaz. vol. 181; p. 536.
Ketcham, O. W., Crum Lynne, Pa. Terra-cotta tiles. No. 84,836; Jan. 9; Gaz. vol. 174; p. 580.
Keuffel & Esser Company, Hoboken, N. J. Measuring-tapes. No. 88,001; Aug. 20; Gaz. vol. 181; p. 816.
Keuffel & Esser Company, Hoboken, N. J. Draftsmen's tools. No. 89,272; Dec. 3; Gaz. vol. 185; p. 244.
Keystone Driller Company, Beaver Falls, Pa. Certain named machinery and tools. No. 88,893; Oct. 29; Gaz. vol. 183; p. 1303.
Keystone Hair Insulator Co., Pittsburgh, Pa. Insulating material. Nos. 88,089–90; Aug. 27; Gaz. vol. 181; p. 1068.
Keystone Roofing Mfg. Co., York, Pa. Rubber roofing. No. 85,593; Feb. 27; Gaz. vol. 175; p. 1094.
Keystone Steel & Wire Company, Peoria, Ill. Barb-wire. No. 85,908; Mar. 26; Gaz. vol. 176; p. 1067.
Keystone Steel & Wire Company, Peoria, Ill. Wire, barb-wire, and fence-stretchers. No. 86,598; May 21; Gaz. vol. 178; p. 880.
Keystone Steel & Wire Company, Peoria, Ill. Gates. Nos. 86,714–15; May 28; Gaz. vol. 178; p. 1148.
Keystone Varnish Co., Brooklyn, N. Y. Enamel paint. No. 86,599; May 21; Gaz. vol. 178; p. 880.
Keystone Varnish Co., New York, N. Y. Cement-filler. No. 86,600; May 21; Gaz. vol. 178; p. 880.
Keystone Watch Case Company, Philadelphia, Pa. Watches, watch movements and cases, and parts thereof. No. 86,412; May 7; Gaz. vol. 178; p. 314.
Keystone Watch Case Company, Philadelphia, Pa. Watches, watch cases and movements. No. 86,716; May 28; Gaz. vol. 178; p. 1148.
Kibiger, Edward C., Fort Wayne, Ind. Liniment. No. 84,910; Jan. 9; Gaz. vol. 174; p. 582.
Kiggins & Tooker Co., New York, N. Y. Blank books. No. 86,305; Apr. 30; Gaz. vol. 177; p. 1292.
Kilbourne & Jacobs Manufacturing Company, The, Columbus, Ohio. Scrapers and plows. No. 89,036; Nov. 5; Gaz. vol. 184; p. 282.
Kilbourne & Jacobs Mfg. Co., The, Columbus, Ohio. Certain named cars, carts, and wheelbarrows. No. 89,189; Nov. 19; Gaz. vol. 184; p. 799.
Kilbride, John J. W., New York, N. Y. Medicinal soaps. No. 88,576; Oct. 1; Gaz. vol. 183; p. 214.
Killmer, Albert J., Mason City, Iowa. Headache-capsules and foot remedy. No. 87,895; Aug. 13; Gaz. vol. 181; p. 536.
Kimball Bros. Co., Bath, Me. Certain foods. No. 85,971; Apr. 2; Gaz. vol. 177; p. 236.
King & Hamilton Co., Ottawa, Ill. Corn-shellers. Nos. 89,469–71; Dec. 17; Gaz. vol. 185; p. 824.
King Milling Co., Lowell, Mich. Wheat-flour. No. 84,974; Jan. 16; Gaz. vol. 174; p. 824.
Kingsley & Smith, Hartford, Conn. Butter. No. 86,065; Apr. 9; Gaz. vol. 177; p. 520.
Kingstone Ornamental & Construction Company, Los Angeles, Cal. Artificial building-stones. No. 86,141; Apr. 16; Gaz. vol. 177; p. 765.
Kinsey, George W., Paterson, N. J. Smoked finnan haddies. No. 87,458; July 16; Gaz. vol. 180; p. 875.
Kinsler-Bennett Co., The, Hartford, Conn. Universal joints. No. 87,896; Aug. 13; Gaz. vol. 181; p. 536.
Kirby Co., H. M., Keokuk, Iowa. Rat-exterminator. No. 85,450; Feb. 20; Gaz. vol. 175; p. 838.
Kirchhofer, Paul P., Massillon, Ohio. Certain pharmaceutical preparations. No. 87,345; July 9; Gaz. vol. 180; p. 598.
Kirk-Dunning Co., Inc., Philadelphia, Pa. Shoes. No. 86,810; June 4; Gaz. vol. 179; p. 282.
Kirkman & Son, W. C., Stockton, Cal. Potatoes. No. 85,662; Mar. 5; Gaz. vol. 176; p. 269.
Kirshner & Berman, Baltimore, Md. Headache remedy. No. 86,142; Apr. 16; Gaz. vol. 177; p. 765.
Kiwassa Lithia Spring Co. Inc., Richmond, Va. Ginger-ale. No. 84,975; Jan. 16; Gaz. vol. 174; p. 824.
Klauber Wangenheim Co., San Diego, Cal. Dried fruits and canned vegetables. No. 88,410; Sept. 17; Gaz. vol. 182; p. 717.
Klein Manufacturing Company, The, Cleveland, Ohio. Certain construction materials. No. 86,539; May 14; Gaz. vol. 178; p. 588.
Klein & Sons, Mathias, Chicago, Ill. Certain named tools. Nos. 89,563–4; Dec. 24; Gaz. vol. 185; p. 1050.
Klensall Mfg. Co., Reading, Pa. Washing-powder. No. 88,092; Aug. 27; Gaz. vol. 181; p. 1068.
Klopfer, Friedrich A. V., Dresden-Leubnitz, Germany. Tonic. No. 84,780; Jan. 2; Gaz. vol. 174; p. 285.
Knickerbocker Case Company, Chicago, Ill. Sample cases and bags. No. 84,781; Jan. 2; Gaz. vol. 174; p. 285.
Knoll & Co., Ludwigshafen-on-the-Rhine, Germany. Remedy for skin diseases. No. 88,894; Oct. 29; Gaz. vol. 183; p. 1303.
Knoll & Co., Ludwigshafen-on-the-Rhine, Germany. Remedy for sleeplessness. No. 89,121; Nov. 12; Gaz. vol. 184; p. 546.
Knox Thenardine Chemical Company, New York, N. Y. Germicidal dressings. No. 85,137; Jan. 30; Gaz. vol. 174; p. 1213.
Koch Brothers, Zanesville, Ohio. Chemical compound for purifying water. No. 88,895; Oct. 29; Gaz. vol. 183; p. 1303.
Koch, George A., Woodmere, N. Y. Hair-tonic. No. 85,595; Feb. 27; Gaz. vol. 175; p. 1094.
Kockums Jernverks Aktiebolag, Malmö, Sweden. Enameled steelware. No. 85,452; Feb. 20; Gaz. vol. 175; p. 838.
Koenigsmark Mill Co., Waterloo, Ill. Wheat-flour. No. 88,093; Aug. 27; Gaz. vol. 181; p. 1068.
Kohler, Charles, New York, N. Y. Pianos and piano-players. No. 85,870; Mar. 26; Gaz. vol. 176; p. 1065.

Alphabetical list of registrants of trade-marks—Continued.

Kohn Distilling Co., The, Montgomery, Ala., and Jacksonville, Fla. Gin. No. 89,378; Dec. 10; Gaz. vol. 185; p. 520.
Kokomo Canning Company, Kokomo, Ind. Canned vegetables. No. 85,138; Jan. 30; Gaz. vol. 174; p. 1213.
Kolberger Anstalten für Exterikultur Willh. Anhalt G. m. b. H., Ostseebad Kolberg, Germany. Laxatives. No. 86,601; May 21; Gaz. vol. 178; p. 880.
Kolberger Anstalten für Exterikultur Wilh. Anhalt G. m. b. H., Ostseebad Kolberg, Germany. Remedy for coughs, colds, hoarseness, and catarrh. No. 88,308; Sept. 10; Gaz. vol. 182; p. 505.
Kopf Nursery & Realty Co., Inc., New Haven, Conn. Fresh pineapples. No. 86,663; May 21; Gaz. vol. 178; p. 881.
Kops Bros., New York, N. Y. Corsets and corset-pads. No. 85,139; Jan. 30; Gaz. vol. 174; p. 1213.
Kops Bros., New York, N. Y. Elastic webbing. No. 89,034; Nov. 5; Gaz vol. 184; p. 282.
Kops Bros., New York, N. Y. Elastic webbing. No. 89,379; Dec. 10; Gaz. vol. 185; p. 520.
Kornmann, Cohen & Ettlinger, New York, N. Y. Men's, boys', and children's outer clothing. No. 85,140; Jan. 30; Gaz. vol. 174; p. 1213.
Korting & Mathiesen A.-G., Leutzsch-Leipzig, Germany. Electric meters. No. 85,257; Feb. 6; Gaz. vol. 175; p. 260.
Koubek, August, Chicago, Ill. Medicinal tonic. No. 85,821; Mar. 19; Gaz. vol. 176; p. 746.
Krakauer Bros., New York, N. Y. Pianos. No. 89,273; Dec. 3; Gaz. vol. 185; p. 244.
Kral & Co., Wm., Astoria, N. Y. Pearl buttons. No. 84,976; Jan. 16; Gaz. vol. 174; p. 824.
Kramer, Albert, Richmond, Va. Remedies for diseases of the liver, kidneys, and blood. No. 87,221; July 2; Gaz. vol. 180; p. 317.
Kramer & Co., New York, N. Y. Coats, overcoats, vests, and trousers. No. 85,258; Feb. 6; Gaz. vol. 175; p. 260.
Krank, Alfred J., St. Paul, Minn. Perfumed lotion. No. 85,596; Feb. 27; Gaz. vol. 175; p. 1094.
Kratz, Paul, Louisville, Ky. Compound of the radical salicyl and carbonic with soda. No. 87,081; June 25; Gaz. vol. 179; p. 1102.
Krause, Carl A., Aurora, Ill. Certain composition for sharpening, cleaning, and polishing razors. No. 89,190; Nov. 19; Gaz. vol. 184; p. 799.
Krauth & Benninghofen, Butler, Ohio. Autograph-registers. No. 85,260; Feb. 6; Gaz. vol. 175; p. 260.
Krefeld Steel Works Company, Krefeld, Germany, and New York, N. Y. Steel. No. 88,003; Aug. 20; Gaz. vol. 181; p. 816.
Krefeld Steel Works Company, Krefeld, Germany, and New York, N. Y. Steel. No. 88,608; Oct. 1; Gaz. vol. 183; p. 215.
Krell French Piano Company, Newcastle, Ind. Pianos, organs, player-pianos, &c. No. 86,306; Apr. 30; Gaz. vol. 177; p. 1292.
Kresin Brothers, Chicago, Ill. Gold-leaf. No. 89,035; Nov. 5; Gaz. vol. 184; p. 282.
Kretol Company, Inc., The, Washington, D. C. Liquid cleansing and scouring preparation. No. 87,346; July 9; Gaz. vol. 180; p. 598.
Krohnberg & Krohnberg, New York, N. Y. Dress and shirt waists. No. 88,309; Sept. 10; Gaz. vol. 182; p. 505.
Kronberger, Israel B., San Rafael, Cal. Preparation for the treatment of gonorrhea. No. 88,094; Aug. 27; Gaz. vol. 181; p. 1068.
Kruger, Darsie & Co., Liverpool, England. Wheat-flour. No. 88,310; Sept. 10; Gaz. vol. 182; p. 505.
Krupka, Samuel G., Bridgeport, Conn. Mattresses. No. 85,752; Mar. 12; Gaz. vol. 176; p. 522.
Kuehnert & Co., A., New York, N. Y. Men's underwear. No. 86,307; Apr. 30; Gaz. vol. 177; p. 1292.
Kuh, Nathan & Fischer Company, Chicago, Ill. Men's and boys' outer clothing. No. 85,360; Feb. 13; Gaz. vol. 175; p. 538.
Kuhn, Edward C., Cincinnati, Ohio. Umbrellas and parasols. No. 87,774; Aug. 6; Gaz. vol. 181; p. 261.
Kulman, Oscar S., Savannah, Ga. Brooms. No. 84,977; Jan. 16; Gaz. vol. 174; p. 824.
Kuppenheimer & Co., B., Chicago, Ill. Canvas. No. 84,837; Jan. 9; Gaz. vol. 174; p. 580.
L. Candee & Company, The, New Haven, Conn. Rubber boots and shoes. Nos. 89,341–2; Dec. 10; Gaz. vol. 185; p. 519.
L. Sonneborn Sons, Inc., New York, N. Y. Certain painters' material. No. 86,105; Apr. 9; Gaz. vol. 177; p. 521
L. Sonneborn Sons, Inc., New York, N. Y. Disinfectant No. 86,248; Apr. 23; Gaz. vol. 177; p. 1040.
L. A. Carpenter Press Metal Co., Augusta, Me., and Boston, Mass. Pipe-hangers. No. 87,851; Aug. 13; Gaz. vol. 181; p. 535.
L. C. Bates Co., The, New Haven, Conn. Butter. No. 89,328; Dec. 10; Gaz. vol. 185; p. 519.
L. C. Kuhnert Jr. Co., Chicago, Ill. Internal-combustion engines. No. 88,760; Oct. 22; Gaz. vol. 183; p. 1028.
L. C. Nicholson Co., The, Indianapolis, Ind. Cigars. No. 85,876; Mar. 26; Gaz. vol. 176; p. 1066.
L. F. Castle Company, New York, N. Y. Ladies' and misses' hats. No. 85,323; Feb. 13; Gaz. vol. 175; p. 537.
L. H. Nielsen Company, Pittsburgh, Pa. Certain electrical apparatus. No. 85,988; Apr. 2; Gaz. vol. 177; p. 236.
L. and I. J. White Company, The, Jersey City, N. J., and Buffalo, N. Y. Certain named tools and machines. No. 88,393; Sept. 10; Gaz. vol. 182; p. 507.
L. M. S. Candy Mfg. Co., The, Meadville, Pa. Chocolate chips. No. 87,222; July 2; Gaz. vol. 180; p. 317.
L. P. Larson, Jr. Company, Chicago, Ill. Chewing-gum. No. 85,910; Mar. 26; Gaz. vol. 176; p. 1067.
L. S. Starrett Co., The, Athol, Mass. Certain machinery and tools. No. 85,923; Mar. 26; Gaz. vol. 176; p. 1067.
L. S. Starrett Co., Athol, Mass. Certain measuring and scientific appliances. No. 88,215; Sept. 3; Gaz. vol. 182; p. 245.
La Belle Drug Co., The, Washington, Pa. Certain medicines and remedies for certain diseases. No. 87,347; July 9; Gaz. vol. 180; p. 598.
La Crosse Rubber Mills Company, La Crosse, Wis. Rubber shoes and boots. No. 89,673; Dec. 31; Gaz. vol. 185; p. 1375.
La Domus Co., The, Freeport, Ill. Salve. No. 84,978; Jan. 16; Gaz. vol. 174; p. 824.
La Favorite Rubber M'f'g. Co., Hawthorne, N. J. Certain machinery packing and tires composed of rubber or a combination of rubber and other material. No. 87,775; Aug. 6; Gaz. vol. 181; p. 261.
La Fond and Co., M. A., Detroit, Mich. Cigars, cigarettes, tobacco, &c. No. 89,670; Dec. 31; Gaz. vol. 185; p. 1375.
Lafon, Joseph M., Paris, France. Aperitive liqueur. No. 87,636; July 30; Gaz. vol. 180; p. 1388.
Lak-a-Taka Company, The, Carson City, Nev., and Seattle, Wash. Aperient, medicinal, and bath salts. No. 87,637; July 30; Gaz. vol. 180; p. 1388.
Lake Region Packing Association, Tavares, Fla. Oranges, lemons, grape-fruit, tangerines, and limes. No. 85,909; Mar. 26; Gaz. vol. 176; p. 1067.
Lake Shore Stone Company, Milwaukee, Wis. Crushed stone. No. 88,499; Sept. 24; Gaz. vol. 182; p. 966.
Lamb, Thomas, New York, N. Y. Tonic and antipyretic in malarial affections. No. 86,413; May 7; Gaz. vol. 178; p. 314.
Lambert Pharmacal Company, St. Louis, Mo. Antiseptic. No. 85,150; Jan. 30; Gaz. vol. 174; p. 1214.
Lamplugh, William, Levallois-Perret, France. Automobile-hoods. No. 84,979; Jan. 16; Gaz. vol. 174; p. 824.
Lancaster Foundry Company, Lancaster, Pa. Locks, latches, and window-catches. No. 87,223; July 2; Gaz. vol. 180; p. 317.
Lancaster Foundry Company, Lancaster, Pa. Pad, door, and rim locks, night and window latches, &c. No. 87,638; July 30; Gaz. vol. 180; p. 1388.
Lancaster Insecticide Co., Lancaster, Pa. Insecticides. No. 88,500; Sept. 24; Gaz. vol. 182; p. 966.
Lancaster Mills, Clinton, Mass. Cotton piece and dress goods. No. 86,414; May 7; Gaz. vol. 178; p. 314.
Lande, Cecilie, New York, N. Y. Nut-butter. No. 87,459; July 16; Gaz. vol. 180; p. 875.
Landers, Frary and Clark, New Britain, Conn. Sad-irons. No. 85,361; Feb. 13; Gaz. vol. 175; p. 538.
Landers, Frary and Clark, New Britain, Conn. Carvers. No. 85,453; Feb. 20; Gaz. vol. 175; p. 838.
Landers, Frary & Clark, New Britain, Conn. Certain electrically-heated goods. No. 89,671; Dec. 31; Gaz. vol. 185; p. 1375.
Landrock, Jacob, Omaha, Nebr. Laundry and toilet soap. No. 87,082; June 25; Gaz. vol. 179; p. 1102.
Landsberger, Albert H., San Francisco, Cal. Soup-bases and sauces. No. 89,191; Nov. 19; Gaz. vol. 184; p. 799.
Lanman & Kemp, New York, N. Y. Cathartic pills. No. 85,141; Jan. 30; Gaz. vol. 174; p. 1213.
Lanman & Kemp, New York, N. Y. Hair-tonic. No. 85,753; Mar. 12; Gaz. vol. 176; p. 522.
Lanman & Kemp, New York, N. Y. Liniments. No. 86,498; May 7; Gaz. vol. 178; p. 317.
Lanman & Kemp, New York, N. Y. Certain named medical and surgical appliances. No. 88,501; Sept. 24; Gaz. vol. 182; p. 966.
Lansing-Company, Lansing, Mich. Wheelbarrows, trucks, and carts. No. 87,348; July 9; Gaz. vol. 180; p. 598.
Lansing-Company, Lansing, Mich. Warehouse-trucks. No. 87,349; July 9; Gaz. vol. 180; p. 598.
Lapointe Machine Tool Co., Hudson, Mass. Certain named machine-tools. No. 88,312; Sept. 10; Gaz. vol. 182; p. 505.
Lapointe Machine Tool Co., Hudson, Mass. Broaching-machines, planers, boring-machines, &c. No. 88,313; Sept. 10; Gaz. vol. 182; p. 505.
Laraia, Rocco, New York, N. Y. Shoe-polish. No. 88,095; Aug. 27; Gaz. vol. 181; p. 1068.
Larom, Frank W., New York, N. Y. Kid and lamb gloves. No. 85,454; Feb. 20; Gaz. vol. 175; p. 838.
Larsson, Ivan A. M., Stockholm, Sweden. Wall-hooks. No. 88,004; Aug. 20; Gaz. vol. 181; p. 816.
Lassner Company, The, New York, N. Y. Artificial pearls. No. 85,362; Feb. 13; Gaz. vol. 175; p. 538.
Latour, George E., Burlington, Vt. Medicinal tonics. No. 87,083; June 25; Gaz. vol. 179; p. 1102.
Lauderbach-Barber Co., Philipsburg, Pa. Butter. No. 89,037; Nov. 5; Gaz. vol. 184; p. 282.

Alphabetical list of registrants of trade-marks—Continued.

Laurence, Archer C., New York, N. Y. Leather power-transmitting belting. No. 85,142; Jan. 30; Gaz. vol. 174; p. 1213.
Laurence, Archer C., New York, N. Y. Leather power-transmitting belting. No. 88,096; Aug. 27; Gaz. vol. 181; p. 1068.
Lawrenceburg Roller Mills Co., Lawrenceburg, Ind. Middlings, bran, and stock feed. No. 87,460; July 16; Gaz. vol. 180; p. 875.
Layton Pure Food Company, East St. Louis, Ill. Baking-powder and baking-soda. No. 87,224; July 2; Gaz. vol. 180; p. 317.
Layton Pure Food Company, East St. Louis, Ill. Baking powder and soda. No. 89,672; Dec. 31; Gaz. vol. 185; p. 1375.
Lea, Frederick J., San Diego, Cal. Onyx. No. 87,777; Aug. 6; Gaz. vol. 181; p. 261.
Leas & McVitty, Inc., Philadelphia, Pa. Sole and belting leather. No. 86,066; Apr. 9; Gaz. vol. 177; p. 520.
Leas & McVitty, Inc., Philadelphia, Pa. Tap-soles. No. 88,314; Sept. 10; Gaz. vol. 182; p. 505.
Leavines, James H., Colmesneil, Tex. Remedy for rheumatism, indigestion, and kidney trouble. No. 89,380; Dec. 10; Gaz. vol. 185; p. 520.
Ledeboer & Van Der Held, Rotterdam, Netherlands. Wheat-flour. No. 86,664; May 21; Gaz. vol. 178; p. 881.
Léderer, Ervin, Budapest, Austria-Hungary. Remedy for diabetes. No. 88,896; Oct. 29; Gaz. vol. 183; p. 1303.
Lees, John S., Pittsburgh, Pa. Facial and massage creams. No. 89,381; Dec. 10; Gaz. vol. 185; p. 520.
Leeson, Joseph R., Boston, Mass. Yarn and thread winding machines. No. 87,960; Aug. 13; Gaz. vol. 181; p. 538.
Leeson, Joseph R., Newton, Mass. Yarn and thread winding machines. No. 89,274; Dec. 3; Gaz. vol. 185; p. 244.
Leff, Ruby, Gloversville, N. Y. Leather gloves. No. 88,315; Sept. 10; Gaz. vol. 182; p. 505.
Lefkowitz, Isaac, New York, N. Y. Dress-waists. No. 85,597; Feb. 27; Gaz. vol. 175; p. 1094.
Legarda, B., Manila, Philippine Islands. Cigars. Nos. 85,455–6; Feb. 20; Gaz. vol. 175; p. 838.
Legarda, B., Manila, Philippine Islands. Cigars. Nos. 86,143–4; Apr. 16; Gaz. vol. 177; p. 765.
Legarda, B., Manila, Philippine Islands. Cigars. No. 86,308; Apr. 30; Gaz. vol. 177; p. 1292.
Leggett & Brother, New York, N. Y. Certain pharmaceutical preparations. No. 86,997; June 18; Gaz. vol. 179; p. 847.
Lehmann, Ernst P., Brandenburg-on-the-Havel, Germany. Certain toys. No. 85,972; Apr. 2; Gaz. vol. 177; p. 236.
Lehmann, Ernst P., Brandenburg-on-the-Havel, Germany. Toys. No. 88,682; Oct. 15; Gaz. vol. 183; p. 778.
Lehmann-Higginson Grocer Co., Wichita, Kans. Certain foods. No. 86,915; June 11; Gaz. vol. 179; p. 568.
Leib, Wilbur J., Camden, N. J. Laxative pills and dyspepsia-tonic. No. 87,226; July 2; Gaz. vol. 180; p. 317.
Leifchild, Emma L., Los Angeles, Cal. Face cream and powder, shampooing preparations, &c. No. 88,897; Oct. 29; Gaz. vol. 183; p. 1303.
Lenfestey, John R., Chicago, Ill. Printing-plates. No. 89,275; Dec. 3; Gaz. vol. 185; p. 245.
Lenz, Albert E., Perth Amboy, N. J. Games. No. 86,415; May 7; Gaz. vol. 178; p. 314.
Lester, Francis E., Mesilla Park, N. Mex. White sapphires. No. 86,309; Apr. 30; Gaz. vol. 177; p. 1292.
Lester, Francis E., Mesilla Park, N. Mex. Hair-tonic and shampoo preparations. No. 86,416; May 7; Gaz. vol. 178; p. 315.
Leszynsky, Edward G., Chicago, Ill. Mineral rubber. No. 89,674; Dec. 31; Gaz. vol. 185; p. 1375.
Lettergraph Company, The, Baltimore, Md. Printing or duplicating machines. No. 86,602; May 21; Gaz. vol. 178; p. 880.
Leurent, Edouard, Tourcoing, France. Men's, women's, and children's clothing. No. 86,226; Apr. 23; Gaz. vol. 177; p. 1039.
Levan and Sons, W. G., Reading, Pa. Hats and caps. No. 84,980; Jan. 16; Gaz. vol. 174; p. 824.
Levi, Norman R., Detroit, Mich. Roach and vermin exterminators. No. 88,577; Oct. 1; Gaz. vol. 183; p. 214.
Levinstein, Edgar, Boston, Mass. Oil for stuffing leather. No. 86,717; May 28; Gaz. vol. 178; p. 1148.
Levy, Berthé E., New York, N. Y. Hair-eradicator. No. 88,502; Sept. 24; Gaz. vol. 182; p. 966.
Levy Jr. & Ca., Salm., Lisbon, Portugal. Sardines in oil. No. 88,899; Oct. 29; Gaz. vol. 183; p. 1303.
Levy, Larry, New York, N. Y. Trousers. No. 88,761; Oct. 22; Gaz vol. 183; p. 1028.
Levy & Marcus, New York, N. Y. Men's neckties. No. 88,898; Oct. 29; Gaz. vol. 183; p. 1303.
Levy & Markowitz, New York, N. Y. Coats, vests, trousers, overcoats, and rain-coats. No. 85,262; Feb. 6; Gaz. vol. 175; p. 260.
Levy, Max M., Denver, Colo. Blue-print paper. No. 88,005; Aug. 20; Gaz. vol. 181; p. 816.
Levy's Sons, Charles, New York, N. Y. Straw hats. No. 86,310; Apr. 30; Gaz. vol. 177; p. 1292.
Lewis A. Crossett, Inc., Portland, Me., and Boston, Mass. Leather boots and shoes. No. 86,388; May 7; Gaz. vol. 178; p. 314.
Lewis & Bashlow, New York, N. Y. Certain clothing. No. 87,716; Aug. 6; Gaz. vol. 181; p. 259.
Lewis Bear Drug Company, The, Pensacola, Fla. Certain pharmaceutical preparations. No. 86,417; May 7; Gaz. vol. 178; p. 315.
Lewis, George, Chicago, Ill., assignor to Serv-Us Pure Food Co. Certain foods. No. 89,038; Nov. 5; Gaz. vol. 184; p. 282.
Lewis & Locke, New York, N. Y. Gloves. No. 88,578; Oct. 1; Gaz. vol. 183; p. 214.
Lewis & Mitchell, Inc., Oakland, Cal. Oil for preventing moisture from collecting upon glazed surfaces. Nos. 89,473–4; Dec. 17; Gaz. vol. 185; p. 824.
Lexington Flouring Mills, Lexington, Mo. Wheat-flour. No. 84,838; Jan. 9; Gaz. vol. 174; p. 580.
Lexington Mill & Elevator Co., Lexington, Nebr. Wheat-flour. No. 86,916; June 11; Gaz. vol. 179; p. 568.
Libby, McNeill & Libby, Portland, Me.; Chicago, Ill., and Sunnyvale, Cal. Canned and preserved fruits. No. 88,316; Sept. 10; Gaz. vol. 182; p. 505.
Liberty Paint Company Inc., Brooklyn, N. Y. Cold-water paint. No. 86,857; June 4; Gaz. vol. 179; p. 283.
Liberty Paint Company Inc., Brooklyn, N. Y. Cold-water calcimine. No. 86,858; June 4; Gaz. vol. 179; p. 283.
Liberty Paint Company Inc., New York, N. Y. Hot-water calcimine. No. 87,350; July 9; Gaz. vol. 180; p. 598.
Liberty Vending Co., New York, N. Y. Vending-machines. No. 85,664; Mar. 5; Gaz. vol. 176; p. 269.
Liebmann, Paul G., Ardmore, Okla. Ice-cream. No. 86,068; Apr. 9; Gaz. vol. 177; p. 520.
Life Publishing Company, New York, N. Y. Weekly publication. No. 84,981; Jan. 16; Gaz. vol. 174; p. 824.
Lifshitz, Shmual L., New York, N. Y. Rain coats and capes and bathing-caps. No. 87,546; July 23; Gaz. vol. 180; p. 1133.
Lily of France Corset Co., New York, N. Y. Corsets. No. 85,973; Apr. 2; Gaz. vol. 177; p. 236.
Limona Citrus Growers' Association, Limona, Fla. Oranges. No. 88,185; Sept. 3; Gaz. vol. 182; p. 244.
Lincoln Waterproof Cloth Company, The, Boundbrook, N. J. Waterproof roofing. No. 84,982; Jan. 16; Gaz. vol. 174; p. 824.
Lindeke, Warner & Sons, St. Paul, Minn. Knitted underwear. No. 88,762; Oct. 22; Gaz. vol. 183; p. 1028.
Lindenberger Packing Co., Seattle, Wash. Canned salmon. Nos. 89,039–41; Nov. 5; Gaz. vol. 184; p. 282.
Lindlar, Walter P., West Lafayette, Ind. Cleaning and polishing certain named wares. No. 89,675; Dec. 31; Gaz. vol. 185; p. 1375.
Lindsay Light Company, Chicago, Ill. Incandescent gas burners, mantles, and lights. No. 89,122; Nov. 12; Gaz. vol. 184; p. 546.
Lindsay Light Company, Chicago, Ill. Incandescent gas-lamps. No. 89,475; Dec. 17; Gaz. vol. 185; p. 824.
Lingual Surface Tooth Brush Company, Memphis, Tenn. Tooth-brushes. No. 88,186; Sept. 3; Gaz. vol. 182; p. 244.
Lippincott, G. A., Philadelphia, Pa. Buttons. No. 84,839; Jan. 9; Gaz. vol. 174; p. 580.
Lips, Carl H., New York, N. Y. Skin-stain removers. No. 85,711; Mar. 5; Gaz. vol. 176; p. 271.
Lister Agricultural Chemical Works, Newark, N. J., and New York, N. Y. Fertilizers. No. 89,477; Dec. 17; Gaz. vol. 185; p. 824.
Listman Mill Company, La Crosse, Wis. Wheat-flour. No. 88,187; Sept. 3; Gaz. vol. 182; p. 244.
Litke, Rejane, New York, N. Y. Corsets. No. 85,974; Apr. 2; Gaz. vol. 177; p. 236.
Little Giant Punch & Shear Co., Sparta, Ill. Iron punching and shearing machines. No. 85,823; Mar. 19; Gaz. vol. 176; p. 746.
Liverpool China & India Tea Company Limited, The, Liverpool, England. Coffee, compound of coffee and chicory, cocoa, &c. No. 89,042; Nov. 5; Gaz. vol. 184; p. 282.
Livingston & Lieberman, New York, N. Y. Dress-shirts and ladies' waists. No. 88,900; Oct. 29; Gaz. vol. 183; p. 1303.
Lockhart Iron & Steel Co., Pittsburgh, Pa. Iron and steel bars, bands, angles, &c. No. 87,639; July 30; Gaz. vol. 180; p. 1388.
Lodwic Concentrator Company, Los Angeles, Cal. Concentrator and separating tables. No. 88,763; Oct. 22; Gaz. vol. 183; p. 1028.
Loeb & Co., H., New York, N. Y. Knit underwear. No. 85,975; Apr. 2; Gaz. vol. 177; p. 236.
Loeser, Arthur, New York, N. Y. Certain pharmaceutical preparation. No. 86,227; Apr. 23; Gaz. vol. 177; p. 1040.
Loewy & Co., Joseph, New York, N. Y. Shirts. No. 88,764; Oct. 22; Gaz. vol. 183; p. 1028.
Loft, George W., New York, N. Y. Candy. No. 89,123; Nov. 12; Gaz. vol. 184; p. 546.
Lohmann Company, The, New York, N. Y. Metal sheets, castings, and bars. No. 87,781; Aug. 6; Gaz. vol. 181; p. 261.

Alphabetical list of registrants of trade-marks—Continued.

Lomelino Emanuel F., Springfield, Ill. Flour and flavoring extracts. No. 85,824; Mar. 19; Gaz. vol. 176; p. 746.
London, Meyer, New York, N. Y. Unleavened bread. No. 88,503; Sept. 24; Gaz. vol. 182; p. 966.
Long Grate Bar Company, The, Buffalo, N. Y. Furnace and stove grates. No. 86,069; Apr. 9; Gaz. vol. 177; p. 520.
Long Grate Bar Company, The, Buffalo, N. Y. Furnace and stove grates. No. 89,276; Dec. 3; Gaz. vol. 185; p. 245.
Longman & Martinez, New York, N. Y. Illuminating-oil. No. 86,070; Apr. 9; Gaz. vol. 177; p. 520.
Long's Market Creamery, San Francisco, Cal. Butter. No. 88,317; Sept. 10; Gaz. vol. 182; p. 505.
Lonsdale Company, Providence, R. I. Cotton piece goods. Nos. 86,071–3; Apr. 9; Gaz. vol. 177; p. 520.
Loose-Wiles Biscuit Company, Boston, Mass. Biscuits, cakes, and cookies. No. 89,043; Nov. 5; Gaz. vol. 184; p. 282.
Lord & Taylor, New York, N. Y. Hosiery. No. 88,097; Aug. 27; Gaz. vol. 181; p. 1068.
Lortex Company, New York, N. Y., and Pawtucket, R. I. Cotton piece goods. No. 88,188; Sept. 3; Gaz. vol. 182; p. 244.
Los Angeles Pure Fruit Co., Batavia, N. Y. Preparation for making orangeade. No. 86,719; May 28; Gaz. vol. 178; p. 1148.
Los Angeles Pure Fruit Co., Batavia, N. Y. Preparation for making lemonade. No. 86,720; May 28; Gaz. vol. 178; p. 1148.
Loubeque, Henry J., New York, N. Y. Hair-tonic. No. 84,782; Jan. 2; Gaz. vol. 174; p. 285.
Loudenslager, Eveline, administratrix. (See Loudenslager, Joseph.)
Loudenslager, Joseph, deceased; E. Loudenslager, Tiffin, Ohio, administratrix. Wheat-flour. No. 89,044; Nov. 5; Gaz. vol. 184; p. 282.
Louis Pfaelzer & Sons, Chicago, Ill. Hams, bacon, and sausage. No. 88,420; Sept. 17; Gaz. vol. 182; p. 717.
Louis Pfaelzer & Sons, Chicago, Ill. Bacon, ham, lard, and sausage. No. 89,575; Dec. 24; Gaz. vol. 185; p. 1050.
Louisville Varnish Co., Louisville, Ky. Wood-stains. No. 89,676; Dec. 31; Gaz. vol. 185; p. 1375.
Loveman, Joseph & Loeb, Birmingham, Ala. Corsets. No. 85,458; Feb. 20; Gaz. vol. 175; p. 838.
Lovett, John T., Little Silver, N. J. Insecticide. No. 89,124; Nov. 12; Gaz. vol. 184; p. 546.
Low-Taussig-Karpeles Co., The, Providence, R. I. Pearls. No. 87,547; July 23; Gaz. vol. 180; p. 1133.
Lowry & Bro., Alfred, Philadelphia, Pa. Canned fruits, vegetables, salmon, dried currants, and raisins. No. 85,665; Mar. 5; Gaz. vol. 176; p. 269.
Lowry Coffee Co., Philadelphia, Pa. Blended coffee and tea. No. 84,840; Jan. 9; Gaz. vol. 174; p. 580.
Lowry Coffee Co., Philadelphia, Pa. Blended coffee. No. 88,319; Sept. 10; Gaz. vol. 182; p. 505.
Loyal Shirt Company, New York, N. Y. Dress, negligée, or work shirts. No. 88,765; Oct. 22; Gaz. vol. 183; p. 1028.
Lu-E-Sa Remedy Co., Hales Corners, Wis. Preparation for restoring gray hair to its original color. No. 86,228; Apr. 23; Gaz. vol. 177; p. 1040.
Lubin Manufacturing Company, Philadelphia, Pa. Kinetoscopic films. No. 88,629; Oct. 8; Gaz. vol. 183; p. 499.
Lucas & Co., John, Philadelphia, Pa. Ready-mixed paints. Nos. 89,277–8; Dec. 3; Gaz. vol. 185; p. 245.
Lucas Produce Company, New York, N. Y., and Leipsic, Ohio. Eggs. No. 86,918; June 11; Gaz. vol. 179; p. 568.
Luckett Wake Tobacco Co., Louisville, Ky. Leaf-tobacco. No. 85,459; Feb. 20; Gaz. vol. 175; p. 838.
Ludwig Hupfeld Aktiengesellschaft Bohlitz-Ehrenberg, near Leipzig, Germany. Certain musical instruments and supplies. No. 87,351; July 9; Gaz. vol. 180; p. 598.
Lund, Johann, Irvington-on-Hudson, N. Y. Portable shelving. No. 89,192; Nov. 19; Gaz. vol. 184; p. 799.
Lund, Ulrik R. T., Catasauqua, Pa. Ribbons. No. 85,599; Feb. 27; Gaz. vol. 175; p. 1094.
Luneschloss, Alex, New York, N. Y. Sardines. No. 86,917; June 11; Gaz. vol. 179; p. 568.
Lunkenheimer Company, Cincinnati, Ohio. Certain named tools and parts of machinery. No. 88,683; Oct. 15; Gaz. vol. 183; p. 778.
Lunkenheimer Company, Cincinnati, Ohio. Pressure-regulators, water-columns, cocks, &c. No. 89,279; Dec. 3; Gaz. vol. 185; p. 245.
Lunn & Sweet Shoe Co., Auburn, Me. Leather boots and shoes. No. 84,841; Jan. 9; Gaz. vol. 174; p. 580.
Lusby, Edward J., London, England. Tobacco, cigars, cigarettes, and snuff. No. 88,504; Sept. 24; Gaz. vol. 182; p. 966.
Lutey Bros., Butte, Mont. Butter. No. 88,901; Oct. 29; Gaz. vol. 183; p. 1303.
Lutz & Co., Friedr. W., Richmond, Va. Dental burs and drills. No. 89,565; Dec. 24; Gaz. vol. 185; p. 1050.
Luxo Company, The, Wichita, Kans. Hair-invigorator. No. 85,363; Feb. 13; Gaz. vol. 175; p. 538.
Luyties, Frederick A., assignor to Luyties Pharmacy Co., St. Louis, Mo. Certain named pharmaceutical preparations. No. 88,505; Sept. 24; Gaz. vol. 182; p. 967.
Lyle & Sons, Limited, Abram, London, England. Table-syrup. No. 89,045; Nov. 5; Gaz. vol. 184; p. 282.
Lynch, Thos. H., near Fresno, Cal. Fresh grapes. No. 86,418; May 7; Gaz. vol. 178; p. 315.
Lynott, Lena R., Louisiana, Mo. Churns. No. 88,902; Oct. 29; Gaz. vol. 183; p. 1303.
Lyon & Healy, Chicago, Ill. Certain musical instruments. No. 88,506; Sept. 24; Gaz. vol. 182; p. 967.
Lyon & Healy, Chicago, Ill. Pianos. No. 89,566; Dec. 24; Gaz. vol. 185; p. 1050.
M. Rumely Company, La Porte, Ind. Traction and stationary engines. No. 89,581; Dec. 24; Gaz. vol. 185; p. 1050.
M. Wilber Dye Company, The, New York, N. Y. Drawers and combination drawers and corset-covers. No. 87,737; Aug. 6; Gaz. vol. 181; p. 260.
M. Witmark & Sons, New York, N. Y. Continually-changing series of publications. Nos. 85,534–5; Feb. 20; Gaz. vol. 175; p. 841.
M. A. Hunt Company, The, Cincinnati, Ohio. Mattresses and spring-beds. No. 84,745; Jan. 2; Gaz. vol. 174; p. 284.
M. M. Johannsen Candy Co., Dubuque, Iowa. Candies. No. 86,759; May 28; Gaz. vol. 178; p. 1149.
M. & M. Manufacturing Company, The, Akron, Ohio. Vulcanizing solution. No. 87,461; July 16; Gaz. vol. 180; p. 875.
M. & M. Manufacturing Company, The, Akron, Ohio. Adhesive cement and patches. No. 88,098; Aug. 27; Gaz. vol. 181; p. 1068.
M. & M. Manufacturing Company, Akron, Ohio. Inner-tube splicers. No. 88,579; Oct. 1; Gaz. vol. 183; p. 214.
M. P. Tuttle Company, Chadwicks, N. Y. Cambrics, linens, and muslins. Nos. 86,352–3; Apr. 30; Gaz. vol. 177; p. 1293.
M. T. Stevens & Sons Company, North Andover, Mass. Worsted, woolen, and part-woolen piece goods. Nos. 84,763–4; Jan. 2; Gaz. vol. 174; p. 284.
M. W. Diffley, Inc., Chicago, Ill. Cigars. No. 85,566; Feb. 27; Gaz. vol. 175; p. 1093.
M. W. Dunton Company, The, Providence, R. I. Friction-tape. No. 86,980; June 18; Gaz. vol. 179; p. 847.
M. W. Dunton Company, The, Providence, R. I. Friction-tape. No. 87,436; July 16; Gaz. vol. 180; p. 874.
Maatschappij tot Exploitatie van Rademaker's Koninklijkes Cacao & Chocoladefabrieken, The Hague, Netherlands. Candy. No. 85,756; Mar. 12; Gaz. vol. 176; p. 522.
Mac-Kae Manufacturing Company, Jamaica Plain, Mass. Spark-plugs, terminals, protectors, &c. No. 86,919; June 11; Gaz. vol. 179; p. 568.
Macdonald, Robert B., Attleboro, Mass. Jewelry. No. 85,364; Feb. 13; Gaz. vol. 175; p. 538.
Mack, William, New York, N. Y. Food for birds and poultry. No. 87,227; July 2; Gaz. vol. 180; p. 317.
Mack's Medical Co. Inc., Boston, Mass. Medical preparation for overperspiring and sore feet. No. 86,811; June 4; Gaz. vol. 179; p. 282.
Macomber & Whyte Rope Company, Chicago, Ill. Wire rope. No. 88,903; Oct. 29; Gaz. vol. 183; p. 1303.
Madam Marie, Chicago, Ill. Preparation for the skin. No. 85,825; Mar. 19; Gaz. vol. 176; p. 746.
Madame Irène, New York, N. Y. Corsets. Nos. 85,968–9; Apr. 2; Gaz. vol. 177; p. 236.
Madame Irene, New York, N. Y. Corsets. No. 88,758; Oct. 22; Gaz. vol. 183; p. 1028.
Madame Irène, New York, N. Y. Corsets. No. 89,663; Dec. 31; Gaz. vol. 185; p. 1375.
Maddock, A. G., Duarte, Cal. Fresh oranges. No. 87,899; Aug. 13; Gaz. vol. 181; p. 536.
Madison, George A., St. Paul, Minn. Certain named toilet preparations. No. 87,900; Aug. 13; Gaz. vol. 181; p. 536.
Maghina, Agrippina I., St. Petersburg, Russia. Skin-softening compound. No. 87,137; July 2; Gaz. vol. 180; p. 315.
Magic Chemical Company, Jersey City, N. J. Insect-destroyer. No. 86,419; May 7; Gaz. vol. 178; p. 315.
Magic Remedy Company, Sheboygan, Wis. Remedies for certain diseases. No. 87,548; July 23; Gaz. vol. 180; p. 1133.
Magnano, Antonio, Seattle, Wash. Olive-oil. No. 87,640; July 30; Gaz. vol. 180; p. 1388.
Magnetic Pigment Company, New York, N. Y. Paint-pigment. No. 89,679; Dec. 31; Gaz. vol. 185; p. 1375.
Magnolia Paper Co., Houston, Tex. Wrapping-paper. Nos 85,872–3; Mar. 26; Gaz. vol. 176; p. 1066.
Magnolia Petroleum Company, Galveston and Dallas, Tex. Gasolene. No. 85,912; Mar. 26; Gaz. vol. 176; p. 1067.
Magnus & Lauer, San Francisco, Cal. Soda-water syrup. No. 88,766; Oct. 22; Gaz. vol. 183; p. 1028.
Maine Manufacturing Company, Nashua, N. H. Refrigerators. No. 84,983; Jan. 16; Gaz. vol. 174; p. 824.
Maine Manufacturing Company, Nashua, N. H. Refrigerators. No. 88,320; Sept. 10; Gaz. vol. 182; p. 505.
Maldurmin Importing Co., New York, N. Y. Candy. No. 88,099; Aug. 27; Gaz. vol. 181; p. 1068.

Alphabetical list of registrants of trade-marks—Continued.

Maldurmin Importing Co., New York, N. Y. Eatable cake-chocolate. No. 89,677; Dec. 31; Gaz. vol. 185; p. 1375.
Malette, William H., Pittsburgh, Pa. Flavoring extracts. No. 88,100; Aug. 27; Gaz. vol. 181; p. 1068.
Mallach, Louis, New York, N. Y. Weights for garments. No. 85,264; Feb. 6; Gaz. vol. 175; p. 260.
Mallard, Logan L., Dallas, Tex. Flavoring-syrup for soda-fountain drinks. No. 88,006; Aug. 20; Gaz. vol. 181; p. 816.
Malloch Knitting Company, Grand Rapids, Mich. Certain named clothing. No. 88,321; Sept. 10; Gaz. vol. 182; p. 505.
Malone & Diss, Columbus, Ohio. Pile remedies. No. 87,549; July 23; Gaz. vol. 180; p. 1134.
Malouf & Bros., A. M., New York, N. Y. Certain clothing. No. 88,101; Aug. 27; Gaz. vol. 181; p. 1068.
Mammoth Spring Milling Company, Mammoth Spring, Ark. Wheat-flour. No. 86,760; May 28; Gaz. vol. 178; p. 1149.
Manatee Citrus Growers Association, Manatee, Fla. Oranges, grape-fruit, tangerines, lemons, and limes. No. 87,085; June 25; Gaz. vol. 179; p. 1102.
Manchester Biscuit Co., Sioux Falls, S. D. Biscuits. No. 86,074; Apr. 9; Gaz. vol. 177; p. 520.
Manchester Hosiery Mills Co., Manchester, Pa. Hosiery. No. 85,151; Jan. 30; Gaz. vol. 174; p. 1214.
Manfield & Sons, Northampton, England. Leather boots, shoes, and slippers. No. 88,767; Oct. 22; Gaz. vol. 183; p. 1028.
Manganese Bronze & Brass Company, The, Limited, London, England. Bronze alloys. No. 85,265; Feb. 6; Gaz. vol. 175; p. 260.
Manganiello, Albert C., New York, N. Y. Borated talcum powder. No. 89,406; Dec. 10; Gaz. vol. 185; p. 521.
Manganiello, Tony, New York, N. Y. Hair-tonic. No. 84,783; Jan. 2; Gaz. vol. 174; p. 285.
Mangels, Herold Co. Inc., Baltimore, Md. Syrup. No. 87,462; July 16; Gaz. vol. 180; p. 875.
Manhattan Bedding Co., New York, N. Y. Spring beds and mattresses. No. 87,352; July 9; Gaz. vol. 180; p. 598.
Manhattan Rubber Mfg. Co., The, New York, N. Y. Belting. No. 89,407; Dec. 10; Gaz. vol. 185; p. 521.
Manine Medicine Company, Inc., The, St. Louis, Mo. Medicinal preparation. No. 85,784; Jan. 2; Gaz. vol. 174; p. 285.
Manine Medicine Company, St. Louis, Mo. Remedy for certain named diseases. No. 88,907; Oct. 29; Gaz. vol. 183; p. 1303.
Manischewitz, Behr, Cincinnati, Ohio. Matzos. No. 85,666; Mar. 5; Gaz. vol. 176; p. 269.
Manissadjian, Haigasun B., Basel, Switzerland. Plastic compound. No. 89,463; Dec. 17; Gaz. vol. 185; p. 824.
Mann Edge Tool Company, Lewiston, Pa. Axes. No. 89,047; Nov. 5; Gaz. vol. 184; p. 282.
Manoogian, Margos, Philadelphia, Pa. Tooth-powder. No. 86,420; May 7; Gaz. vol. 178; p. 315.
Mantle Lamp Company of America, The, Chicago, Ill. Kerosene and alcohol mantle-burners and mantles and mica chimneys. No. 88,507; Sept. 24; Gaz. vol. 182; p. 967.
Mantovani, Firm of F., Milan, Italy. Powder for absorbing perspiration. No. 86,812; June 4; Gaz. vol. 179; p. 282.
Marechal, Ruchon & Co. Ltd., London, England, and Paris, France. Tobacco-pipes, cigar and cigarette holders. No. 86,421; May 7; Gaz. vol. 178; p. 315.
Marion Steam Shovel Co., The, Marion, Ohio. Dredges and power-shovels. No. 88,630; Oct. 8; Gaz. vol. 183; p. 499.
Marks & Son, O., Newbern, N. C. Leather shoes. No. 88,007; Aug. 20; Gaz. vol. 181; p. 816.
Marshall & Company, Kearney, N. J. Twine. No. 86,422; May 7; Gaz. vol. 178; p. 315.
Marshall Field & Company, Chicago, Ill. Silk foulard. No. 85,425; Feb. 20; Gaz. vol. 175; p. 837.
Marshall Field & Company, Chicago, Ill. Hair-nets. No. 85,572; Feb. 27; Gaz. vol. 175; p. 1094.
Marshall Field & Company, Chicago, Ill. Buttons. No. 86,050; Apr. 9; Gaz. vol. 177; p. 520.
Marshall Field & Company, Chicago, Ill. Cotton dress goods. No. 86,900; June 11; Gaz. vol. 179; p. 568.
Marshall Field & Company, Chicago, Ill. Gloves. No. 87,189; July 2; Gaz. vol. 180; p. 316.
Marshall Field & Company, Chicago, Ill. Perfumes and toilet water. No. 89,639; Dec. 31; Gaz. vol. 185; p. 1374.
Marshall Oil Company of Iowa, Marshalltown, Iowa. Cylinder-oil, cup and axle greases. No. 86,604; May 21; Gaz. vol. 178; p. 880.
Marshalltown Motor Material Mfg. Co., The, Marshalltown, Iowa. Spark-plugs. No. 86,423; May 7; Gaz. vol. 178; p. 315.
Martens, Ernest, Brooklyn, N. Y. Cooked hams. No. 88,904; Oct. 29; Gaz. vol. 183; p. 1303.
Martin, John J., Detroit, Mich. Certain named scientific appliances. Nos. 88,008–9; Aug. 20; Gaz. vol. 181; p. 816.
Martin, Pauline L., Dixon, Ill. Ointment. No. 87,550; July 23; Gaz. vol. 180; p. 1134.
Martin & Sons, C. J., Austin, Tex. Insecticides. No. 85,152; Jan. 30; Gaz. vol. 174; p. 1214.
Martindale & Co., Thomas, Philadelphia, Pa. Olive-oil capsules. No, 89,678; Dec. 31; Gaz. vol. 185; p. 1375.
Martinez, Bartolo, San Antonio, Tex. Certain food. No. 85,153; Jan. 30; Gaz. vol. 174; p. 1214.
Martinez, Bartolo, San Antonio, Tex. Certain flour. No. 85,460; Feb. 20; Gaz. vol. 175; p. 838.
Martins-Birmingham Limited, Birmingham, England. Golf-balls. Nos. 85,757–8; Mar. 12; Gaz. vol. 176; p. 522.
Martin's Sons, E. J., Rockville, Conn. Certain named sporting goods. No. 88,684; Oct. 15; Gaz. vol. 183; p. 778.
Marttene, Michael J., Fort Wayne, Ind. Remedy for indigestion, heartburn, &c. No. 89,125; Nov. 12; Gaz. vol. 184; p. 546.
Marvel Solder Co., New York, N. Y. Solder. No. 85,266; Feb. 6; Gaz. vol. 175; p. 260.
Marvelous Grippe Remedy Co., The, Fort Atkinson, Wis. Remedy for the treatment of grippe. No. 89,567; Dec. 24; Gaz. vol. 185; p. 1050.
Maryland Ice Cream and Fruit Products Co., Baltimore, Md. Ice-cream. No. 89,126; Nov. 12; Gaz. vol. 184; p. 546.
Maschinen-Cartonnagen- & Pappenfabrik Wachtersbach, Fried. Christian, Wächtersbach, Germany. Fire-extinguishers. No. 89,046; Nov. 5; Gaz. vol. 184; p. 282.
Mason, Albert G., Cleveland, Ohio. Sewing-machines and their parts and attachments. No. 86,859; June 4; Gaz. vol. 179; p. 283.
Mason, Au and Magenheimer Confectionery Manufacturing Company, New York, N. Y. Candy. No. 89,680; Dec. 31; Gaz. vol. 185; p. 1375.
Mason, Frederic S., New York, N. Y. Perfumes. No. 85,601; Feb. 27; Gaz. vol. 175; p. 1094.
Massachusetts Chemical Company, Walpole, Mass. Insulating compounds. No. 87,463; July 16; Gaz. vol. 180; p. 875.
Massachusetts Net Company, Boston, Mass. Fishing-nets. No. 86,665; May 21; Gaz. vol. 178; p. 882.
Massachusetts Sanitary Appliance Company, The, Springfield, Mass. Sanitary drinking-fountains. No. 88,102; Aug. 27; Gaz. vol. 181; p. 1068.
Mathers Brothers, Greenville, Pa. Wheat-flour. No. 86,424; May 7; Gaz. vol. 178; p. 315.
Mathes, Benjamin C., Rochester, N. Y. Medicine for certain diseases. Nos. 85,602–3; Feb. 27; Gaz. vol. 175; p. 1094.
Matienzo-Sainz Company, Newburgh, N. Y. Tonic. No. 84,984; Jan. 16; Gaz. vol. 174; p. 824.
Matienzo-Sainz Company, Newburgh, N. Y. Beverage having a fruity flavor. No. 86,607; May 21; Gaz. vol. 178; p. 880.
Matt & Co., F., Newark, N. J. Leather blackings and dressings. No. 86,860; June 4; Gaz. vol. 179; p. 283.
Mattei, Andrew, Fresno, Cal. Brandies. No. 85,977; Apr. 2; Gaz. vol. 177; p. 236.
Matusow, Harry, Philadelphia, Pa. Remedy for diseases of the rectum. No. 89,481; Dec. 17; Gaz. vol. 185; p. 824.
Mayer, Solomon, Boston, Mass. Foot-measuring charts. No. 88,011; Aug. 20; Gaz. vol. 181; p. 816.
Mayflower Mills, Fort Wayne, Ind. Wheat-flour. No. 87,088; June 25; Gaz. vol. 179; p. 1102.
Mazo Brothers, Washington, D. C. Coffee. No. 89,280; Dec. 3; Gaz. vol. 185; p. 245.
Mazzone, Cono, Providence, R. I. Medicine for certain diseases. No. 88,631; Oct. 8; Gaz. vol. 183; p. 499.
McAdams & Morford, Lexington, Ky. Remedy for diseases of the liver. No. 89,482; Dec. 17; Gaz. vol. 185; p. 824.
McAfee, Frank C., Moberly, Mo. Horse food. No. 84,842; Jan. 9; Gaz. vol. 174; p. 580.
McBride, Nast & Co., New York, N. Y. Monthly magazine. No. 86,666; May 21; Gaz. vol. 178; p. 882.
McBride, Paul C., Chicago, Ill. Container for certain named toilet articles. No. 89,193; Nov. 19; Gaz. vol. 184; p. 799.
McCaffery, John P., Moline, Ill. Insecticides. No. 84,785; Jan. 2; Gaz. vol. 174; p. 285.
McCawley & Co., Baltimore, Md. Work-shirts, overalls, and rompers. No. 84,786; Jan. 2; Gaz. vol. 174; p. 285.
McCleary, Wallin & Crouse, Amsterdam, N. Y. Woven rugs and carpets. No. 89,048; Nov. 5; Gaz. vol. 184; p. 282.
McCord-Brady Company, Omaha, Nebr. Certain foods. No. 85,668; Mar. 5; Gaz. vol. 176; p. 270.
McCord-Kistler Mer. Co., Topeka, Kans. Certain canned foods. No. 88,905; Oct. 29; Gaz. vol. 183; p. 1303.
McCormick Waterproof Portland Cement Company, St. Louis, Mo. Portland cement. No. 87,552; July 23; Gaz. vol. 180; p. 1134.
McCoy, Wilbert B., Cleveland, Ohio. Tonic for the scalp and hair. No. 89,127; Nov. 12; Gaz. vol. 184; p. 546.
McCusker and Barnes, Annapolis, Md. Indigestion remedy. No. 86,428; May 7; Gaz. vol. 178; p. 315.
McDonald, Marion F., South Lake Weir, Fla. Oranges. No. 86,667; May 21; Gaz. vol. 178; p. 882.
McDonald Milling Company, McDonald, Pa. Wheat-flour. No. 85,669; Mar. 5; Gaz. vol. 176; p. 270.

Alphabetical list of registrants of trade-marks—Continued.

McDonald Milling Company, McDonald, Pa. Cornmeal. No. 85,670; Mar. 5; Gaz. vol. 176; p. 270.
McFarland, J. C., Dallas, Tex. Remedy for gonorrhea. No. 85,604; Feb. 27; Gaz. vol. 175; p. 1094.
McGee, William H., Baltimore, Md. Raw oysters. No. 86,145; Apr. 16; Gaz. vol. 177; p. 765.
McGowan Bros. Company, The, Steubenville, Ohio. Canned fruits and vegetables. No. 85,978; Apr. 2; Gaz. vol. 177; p. 236.
McGraw, Joseph W., Bay City, Mich. Spring-water. No. 89,281; Dec. 3; Gaz. vol. 185; p. 245.
McGraw Manufacturing Company, The, McGraw, N. Y. Revolving table-servers. No. 87,230; July 2; Gaz. vol. 180; p. 317.
McGraw Tire & Rubber Company, East Palestine, Ohio. Rubber automobile-tires. No. 85,979; Apr. 2; Gaz. vol. 177; p. 236.
McIntyre-Burrall Company, Green Bay, Wis. Horse collars, saddles, blankets, and fly-nets. No. 87,553; July 23; Gaz. vol. 180; p. 1134.
McKiernan-Terry Drill Company, New York, N. Y. Lifting-jacks. No. 88,632; Oct. 8; Gaz. vol. 183; p. 499.
McKinney Traction Cultivator Co., St. Louis, Mo. Traction-machines and parts thereof. No. 87,087; June 25; Gaz. vol. 179; p. 1102.
McLaughlin Sales Co., The, St. Louis, Mo. Certain kind of lighting or flame-producing devices. No. 89,568; Dec. 24; Gaz. vol. 185; p. 1050.
McLeish, Wm., Appleton, Wis. Car movers and pushers. No. 85,759; Mar. 12; Gaz. vol. 176; p. 522.
McLin, George H., Huntington, Ind. Syrups, extracts, and non-alcoholic beverages made therefrom. No. 87,355; July 9; Gaz. vol. 180; p. 598.
McMahan & Co., C. E., Houston, Tex. Rice. Nos. 87,231–2; July 2; Gaz. vol. 180; p. 317.
McMechen Preserving Company, Wheeling, W. Va. Catsup. No. 86,920; June 11; Gaz. vol. 179; p. 568.
McNeil & Higgins Company, Chicago, Ill. Certain foods. No. 84,843; Jan. 9; Gaz. vol. 174; p. 580.
McNeil & Higgins Company, Chicago, Ill. Certain chemicals, medicines, and toilet preparations. No. 85,605; Feb. 27; Gaz. vol. 175; p. 1095.
McRae, Emily C., Spokane, Wash. Medicine for certain ailments. No. 86,998; June 18; Gaz. vol. 179; p. 847.
McWhirter Chemical Company, Trenton, N. J., and New York, N. Y. Bleaching-powder. No. 88,542; Sept. 24; Gaz. vol. 182; p. 968.
Medina Milling & Elevator Co., Medina, N. D. Wheat-flour. No. 88,906; Oct. 29; Gaz. vol. 183; p. 1303.
Meier Dental Manufacturing Company, The, St. Louis, Mo. Dental foils for tooth-fillings. No. 87,782; Aug. 6; Gaz. vol. 181; p. 261.
Meizinger, Ottilia, Yonkers, N. Y. Face-cream and hair-pomade. No. 89,128; Nov. 12; Gaz. vol. 184; p. 546.
Melohn, August, Chicago, Ill. Compound for preventing nickel-plating from rusting and tarnishing. No. 88,103; Aug. 27; Gaz. vol. 181; p. 1068.
Mengis, Margaret, New York, N. Y. Salts for bathing and gargling solutions. No. 89,681; Dec. 31; Gaz. vol. 185; p. 1375.
Menley & James, Limited, New York, N. Y., and London, England. Ointment. No. 86,813; June 4; Gaz. vol. 179; p. 282.
Menley & James, Limited, New York, London, England, and New York, N. Y. Ointment. No. 87,784; Aug. 6; Gaz. vol. 181; p. 261.
Menzel & Co., New York, N. Y. Cheese. No. 88,411; Sept. 17; Gaz. vol. 182; p. 717.
Mercer, Albert E., Gary, Ind. Liniments. No. 85,365; Feb. 13; Gaz. vol. 175; p. 538.
Merchants Syndicate, St. Louis, Mo. Certain internal and external remedies. No. 88,189; Sept. 3; Gaz. vol. 182; p. 244.
Merlino, Angelo, Seattle, Wash. Cigars. No. 89,682; Dec. 31; Gaz. vol. 185; p. 1375.
Merrell-Soule Co., Syracuse, N. Y. Milk-powder. No. 84,844; Jan. 9; Gaz. vol. 174; p. 580.
Merrell-Soule Co., Syracuse, N. Y. Milk products in dry form. No. 86,312; Apr. 30; Gaz. vol. 177; p. 1292.
Merrell-Soule Co., Syracuse, N. Y. Soups, butter, preserved and canned vegetables. No. 86,313; Apr. 30; Gaz. vol. 177; p. 1292.
Merrell-Soule Co., Syracuse, N. Y. Mince-meat, infant food, and preserved eggs. No. 87,089; June 25; Gaz. vol. 179; p. 1102.
Merrell-Soule Company, Syracuse, N. Y. Dried milk, dried eggs, and mince-meat. No. 87,233; July 2; Gaz. vol. 180; p. 317.
Merry Optical Company, Kansas City, Mo. Spectacle and eyeglass lenses. No. 87,641; July 30; Gaz. vol. 180; p. 1388.
Mertz, Edward L., Fort Wayne, Ind. Cleaning compound. No. 88,685; Oct. 15; Gaz. vol. 183; p. 778.
Metall-Regeno G. m. b. H., Munich, Germany. Preparation for regenerating metals. No. 86,814; June 4; Gaz. vol. 179; p. 282.
Metallurgique Motor Co., New York, N. Y. Automobiles, motor-boats, and aeroplanes. No. 85,461; Feb. 20; Gaz. vol. 175; p. 838.
Meteor Carbon Company, Charleston and Stonecoal, W. Va. Carbon-black. No. 85,671; Mar. 5; Gaz. vol. 176; p. 270.
Metropolitan Pharmacal Co., New York, N. Y. Remedy for malaria, ague, fevers, &c. No. 88,686; Oct. 15; Gaz. vol. 183; p. 778.
Metropolitan Tobacco Co., New York, N. Y. Tobacco-pipes. No. 86,429; May 7; Gaz. vol. 178; p. 315.
Mettmanner Britanniawarenfabrik W. Siebel, Mettmann, Germany. Spoons and forks of other than precious metal. No. 88,580; Oct. 1; Gaz. vol. 183; p. 214.
Mexico Land Company, Minneapolis, Minn.; Cleveland, Ohio, and Osorio, Mexico. Grape-fruit, oranges, lemons, limes, and pineapples. No. 89,483; Dec. 17; Gaz. vol. 185; p. 824.
Meyer, Arnold O., Hamburg, Germany. Certain kinds of threads. No. 85,874; Mar. 26; Gaz. vol. 176; p. 1066.
Meyer, Firm of Arnold O., Hamburg, Germany. Letter and printing paper and envelops. No. 86,075; Apr. 9; Gaz. vol. 177; p. 520.
Meyer, Arnold O., Hamburg, Germany. Certain knitted, netted, and textile fabrics. No. 85,541; May 14; Gaz. vol. 178; p. 588.
Meyer, Arnold O., Hamburg, Germany. Certain kinds of cutlery. No. 86,609; May 21; Gaz. vol. 178; p. 880.
Meyer Brothers Drug Company, St. Louis, Mo. French olive-oil. No. 89,569; Dec. 24; Gaz. vol. 185; p. 1050.
Meyer & C., D., Bahia Blanca, Argentina. Kerosene. No. 88,012; Aug. 20; Gaz. vol. 181; p. 816.
Meyer & C., D., Bahia Blanca, Argentina. Corrugated sheet-iron. No. 88,013; Aug. 20; Gaz. vol. 181; p. 816.
Meyer & Co., John H., New York, N. Y. Cotton duck in the piece. No. 88,768; Oct. 22; Gaz. vol. 183; p. 1028.
Meyer & Company, Jos., New York, N. Y. Yarn. No. 88,769; Oct. 22; Gaz. vol. 183; p. 1028.
Meyer, F. & J., New York, N. Y. Certain raw or partly-prepared materials. No. 86,314; Apr. 30; Gaz. vol. 177; p. 1292.
Meyer, George V., *et al.*, trustees. (See Amoskeag Manufacturing Company, assignor.)
Meyer, George von L., *et al.*, trustees. (See Amoskeag Manufacturing Company, assignor.)
Meyer, Henry R., New York, N. Y. Enamels, paints, and varnishes. No. 88,910; Oct. 29; Gaz. vol. 183; p. 1303.
Meyer, O. F., Rosholt, Wis. Remedy for rheumatism. No. 89,484; Dec. 17; Gaz. vol. 185; p. 824.
Meyer, Pitts & Co., Baltimore, Md. Corn whisky. No. 88,324; Sept. 10; Gaz. vol. 182; p. 506.
Meyrowitz, E. B., New York, N. Y. Eyeglasses and spectacles. No. 85,267; Feb. 6; Gaz. vol. 175; p. 260.
Mica Insulator Company, New York, N. Y. Electrical insulators. No. 88,325; Sept. 10; Gaz. vol. 182; p. 506.
Michelin Tire Company, Milltown, N. J. Pneumatic tires for automobiles. No. 85,761; Mar. 12; Gaz. vol. 176; p. 522.
Michelin Tire Company, Clermont-Ferrand, France, and Milltown, N. J. Pneumatic tires for automobiles. No. 86,430; May 7; Gaz. vol. 178; p. 315.
Michigan Milling Company, Ann Arbor, Mich. Wheat-flour. No. 85,155; Jan. 30; Gaz. vol. 174; p. 1214.
Michigan Milling Co., Ann Arbor, Mich. Flour. No. 85,462; Feb. 20; Gaz. vol. 175; p. 838.
Michigan Milling Company, Ann Arbor, Mich. Wheat-flour, cornmeal, and Graham flour. No. 85,672; Mar. 5; Gaz. vol. 176; p. 270.
Michigan Milling Company, Ann Arbor, Mich. Wheat-flour. No. 85,762; Mar. 12; Gaz. vol. 176; p. 522.
Michigan Milling Company, Ann Arbor, Mich. Wheat-flour. No. 86,076; Apr. 9; Gaz. vol. 177; p. 520.
Michigan Seating Co., Jackson, Mich. Certain named furniture. No. 88,509; Sept. 24; Gaz. vol. 182; p. 967.
Michod, Charles L., Los Angeles, Cal. Steel fence posts and poles. No. 85,914; Mar. 26; Gaz. vol. 176; p. 1067.
Microutsicos, Spyros A., New York, N. Y. Olive-oil diluted with cotton-seed oil. No. 85,826; Mar. 19; Gaz. vol. 176; p. 746.
Mid-West Specialty Company, Chicago, Ill. Steel-wool journal and machinery packing. No. 89,194; Nov. 19; Gaz. vol. 184; p. 799.
Middlesex Company, Lowell, Mass. Hosiery. No. 85,366; Feb. 13; Gaz. vol. 175; p. 538.
Midland Motor Co., Moline, Ill. Automobiles. No. 88,771; Oct. 22; Gaz. vol. 183; p. 1028.
Mihalovitch Brothers, Cincinnati, Ohio. Envelop-sealing machines. No. 88,911; Oct. 29; Gaz. vol. 183; p. 1303.
Mika Cooker Company, Saginaw, Mich. Fireless cookers. No. 88,912; Oct. 29; Gaz. vol. 183; p. 1303.
Milerick, John S., Yonkers, N. Y. Liniment. No. 88,014; Aug. 20; Gaz. vol. 181; p. 816.
Miles & Co., Inc., Baltimore, Md. Fresh oysters. Nos. 86,921–2; June 11; Gaz. vol. 179; p. 568.
Mill & Mine Supply Co., Seattle, Wash. Pulley-blocks. No. 85,268; Feb. 6; Gaz. vol. 175; p. 260.
Mill & Mine Supply Co., Seattle, Wash. Iron. No. 88,326; Sept. 10; Gaz. vol. 182; p. 506.
Millar, Marion, Winnipeg, Canada. Hair-restorer. No. 86,229; Apr. 23; Gaz. vol. 177; p. 1040.
Miller Bros., Galveston, Tex. Jumpers and work-shirts. No. 89,570; Dec. 24; Gaz. vol. 185; p. 1050.
Miller, Charles N., Mogadore, Ohio. Bricks and blocks. No. 87,353; July 9; Gaz. vol. 180; p. 598.
Miller, Charles N., Boston, Mass. Candy. No. 88,913; Oct. 29; Gaz. vol. 183; p. 1303.

Alphabetical list of registrants of trade-marks—Continued.

Miller, Edward, Jr., Evansville, Ind. Remedy for diseases of females. No. 87,785; Aug. 6; Gaz. vol. 181; p. 261.
Miller, Isaiah, Prattville, Ala. Tonic beverage. No. 86,315; Apr. 30; Gaz. vol. 177; p. 1292.
Miller, James A., Columbia, Mo. Polish for furniture, linoleum, &c. No. 87,642; July 30; Gaz. vol. 180; p. 1388.
Miller, Robert E., Brooklyn, N. Y. Bearing metal. No. 87,904; Aug. 13; Gaz. vol. 181; p. 537.
Miller & Sons Co., Philadelphia, Pa. Hosiery. No. 84,787; Jan. 2; Gaz. vol. 174; p. 285.
Millers Falls Company, Montague and Millers Falls, Mass. Chucks for holding removable tools. No. 86,431; May 7; Gaz. vol. 178; p. 315.
Miller's Sons Co., A. D., Pittsburgh, Pa. Metal-polish. No. 85,606; Feb. 27; Gaz. vol. 175; p. 1095.
Milliken, Wm. J., Salt Lake City, Utah. Newspapers and magazines. No. 86,230; Apr. 23; Gaz. vol. 177; p. 1040.
Mills, Duflot & Company, New York, N. Y. Hair-nets. No. 87,786; Aug. 6; Gaz. vol. 181; p. 261.
Mills & Gibb, East Orange, N. J., and New York, N. Y. Gloves. No. 85,367; Feb. 13; Gaz. vol. 175; p. 538.
Mills, Giles A., Girard, Kans. Remedies for piles and skin diseases. No. 84,788; Jan. 2; Gaz. vol. 174; p. 285.
Millstadt Milling Co., Millstadt, Ill. Self-rising wheat-flour. No. 87,354; July 9; Gaz. vol. 180; p. 598.
Milton Piano Company, New York, N. Y. Pianos and actions therefor. No. 87,234; July 2; Gaz. vol. 180; p. 318.
Milwaukee-Waukesha Brewing Company, Milwaukee, Wis. Ginger-ale and mineral water. No. 86,146; Apr. 16; Gaz. vol. 177; p. 766.
Minerva Motors, Berchem, near Antwerp, Belgium. Automobiles and chassis for automobiles, bicycles, &c. No. 87,643; July 30; Gaz. vol. 180; p. 1388.
Minerva Motors, Berchem, near Antwerp, Belgium. Transmission apparatus and explosion-motors for cars, cycles, &c. No. 89,131; Nov. 12; Gaz. vol. 184; p. 546.
Minneapolis Steel & Machinery Company, Minneapolis, Minn. Gas traction-engines. No. 89,571; Dec. 24; Gaz. vol. 185; p. 1050.
Minnesota Harness Factory, Incorporated, Winona, Minn. Horse-collars. No. 86,231; Apr. 23; Gaz. vol. 177; p. 1040.
Minot, Hooper & Co., New York, N. Y. Woven cotton fabrics. No. 87,464; July 16; Gaz. vol. 180; p. 875.
Mission Cereal Company, Minneapolis, Minn. Cereal compound used in the preparation of a beverage. No. 84,845; Jan. 9; Gaz. vol. 174; p. 580.
Missouri Shoe Company, St. Louis, Mo. Leather boots and shoes. No. 87,551; July 23; Gaz. vol. 180; p. 1134.
Missouri Valley Grocery Co., Mandan, N. D. Certain foods. No. 87,235; July 2; Gaz. vol. 180; p. 318.
Mitchell Brothers, Limited, Glasgow, Scotland. Whisky. No. 85,464; Feb. 20; Gaz. vol. 175; p. 839.
Mitchell, Ottie D., Eaton, Ind. Remedy for roup, canker, &c., of fowls. No. 89,283; Dec. 3; Gaz. vol. 185; p. 245.
Mitred Box Company, New York, N. Y. Dolls. No. 85,980; Apr. 2; Gaz. vol. 177; p. 236.
Mittag & Volger Incorporated, Park Ridge, N. J. Typewriter ribbons and carbon-paper. No. 87,465; July 16; Gaz. vol. 180; p. 875.
Mock, Adolph L., New York, N. Y. Children's, misses', and ladies' clothing. No. 86,816; June 4; Gaz. vol. 179; p. 282.
Mock, Adolph L., New York, N. Y. Toilet soaps. No. 87,090; June 25; Gaz. vol. 179; p. 1103.
Mock, Adolph L., New York, N. Y. Certain named chemical and pharmaceutical preparations. No. 89,129; Nov. 12; Gaz. vol. 184; p. 546.
Modart Corset Company, Saginaw, Mich. Corsets and brassières. No. 88,772; Oct. 22; Gaz. vol. 183; p. 1028.
Modiano, Firm of Saul D., Trieste, Austria-Hungary. Cigarette-papers. No. 88,327; Sept. 10; Gaz. vol. 182; p. 506.
Moe, Blanche W., New York, N. Y. Certain pharmaceutical preparations. No. 87,091; June 25; Gaz. vol. 179; p. 1103.
Moe, Blanche W., New York, N. Y. Foot-powder. No. 87,092; June 25; Gaz. vol. 179; p. 1103.
Moeckel, John J., Lebanon, Pa. Cigars. No. 88,190; Sept. 3; Gaz. vol. 182; p. 244.
Moland's Sons, William, Philadelphia, Pa. Preparation of pork. No. 84,846; Jan. 9; Gaz. vol. 174; p. 580.
Molwitz, Ernest, New York, N. Y. Certain pharmaceutical preparations. No. 86,817; June 4; Gaz. vol. 179; p. 282.
Monarch Oil Refining Co., San Francisco, Cal. Lubricating-oils. No. 85,465; Feb. 20; Gaz. vol. 175; p. 839.
Mondon, L., New York, N. Y. Certain named piece goods. No. 89,409; Dec. 10; Gaz. vol. 185; p. 521.
Monica, Andrea D., New York, N. Y. Medicinal syrup. No. 86,818; June 4; Gaz. vol. 179; p. 282.
Monitor Stove and Range Company, The, Cincinnati, Ohio. Stoves, ranges, and furnaces. No. 85,041; Jan. 23; Gaz. vol. 174; p. 1023.
Monkhouse and Glasscock Limited, Bermondsey, London, England. Certain foods. No. 85,466; Feb. 20; Gaz. vol. 175; p. 839.
Monolith Steel Co., Inc., Washington, D. C. Iron and steel bars and reticulated metal. No. 85,915; Mar. 26; Gaz. vol. 176; p. 1067.
Monroe Drug Co., Quincy, Ill. Certain chemical preparation for cleaning garments. No. 89,130; Nov. 12; Gaz. vol. 184; p. 546.
Montag Brothers, Atlanta, Ga. Rubber hot-water bags, fountain-syringes, and nipples. No. 85,467; Feb. 20; Gaz. vol. 175; p. 839.
Montana Flour Mills Co., Harlowton, Mont. Wheat-flour. Nos. 84,847–8; Jan. 9; Gaz. vol. 174; p. 580.
Montgomery, Joseph N., Rockymount, Va. Overalls and overall-jackets. No. 88,915; Oct. 29; Gaz. vol. 183; p. 1303.
Monticello Drug Co., Jacksonville, Fla. Remedies for certain diseases. No. 88,916; Oct. 29; Gaz. vol. 183; p. 1303.
Monument Mills, Housatonic, Mass., and New York, N. Y. Bedspreads and counterpanes. No. 84,985; Jan. 16; Gaz. vol. 174; p. 824.
Monybak Mfg. Company, Incorporated, Hartford, Conn. Carbolized soap paste and hand-soap. No. 86,432; May 7; Gaz. vol. 178; p. 315.
Moody, Percival D., Somerville, Mass. Starch finish. No. 89,410; Dec. 10; Gaz. vol. 185; p. 521.
Moore & Co., E. B., New York, N. Y. Mixed silk and worsted piece goods. No. 85,673; Mar. 5; Gaz. vol. 176; p. 270.
Moore, Daniel K., Webster, N. C. Remedy for hog and chicken cholera. No. 89,411; Dec. 10; Gaz. vol. 185; p. 521.
Moore & Munger, New York, N. Y. Clay. No. 87,236; July 2; Gaz. vol. 180; p. 318.
Moore & Munger, New York, N. Y. Crude clay for manufacturing certain articles used by glass-manufacturers. No. 88,105; Aug. 27; Gaz. vol. 181; p. 1069.
Moore & Munger, New York. N. Y. Clay for the manufacture of certain named articles. No. 89,683; Dec. 31; Gaz. vol. 185; p. 1375.
Moorhead Knitting Company, Harrisburg, Pa. Hosiery, knit underwear, and sweaters. No. 88,775; Oct. 22; Gaz. vol. 183; p. 1028.
Moreda y Deben, Bernardo, Habana, Cuba. Cigars. No. 86,132; Apr. 16; Gaz. vol. 177; p. 765.
Moreda y Deben, Bernardo, Habana, Cuba. Cigars. No. 88,169; Sept. 3; Gaz. vol. 182; p. 243.
Morehead Manufacturing Company, Detroit, Mich. Steam-traps. No. 87,237; July 2; Gaz. vol. 180; p. 318.
Morgan, Albert C. F., London, England. Port-wine. No. 86,999; June 18; Gaz. vol. 179; p. 847.
Morgan, Albert C. F., London, England. Port-wine. No. 87,905; Aug. 13; Gaz. vol. 181; p. 537.
Morgan, Byron, New York, N. Y. Substitute for linseed-oil. No. 86,923; June 11; Gaz. vol. 179; p. 568.
Morgan Crucible Company Limited, The, Battersea, London, England. Crucibles. No. 89,485; Dec. 17; Gaz. vol. 185; p. 824.
Morgan Drug Co., The, Brooklyn, N. Y. Ointment, pomade, blood remedy, &c. No. 87,000; June 18; Gaz. vol. 179; p. 847.
Morgan Drug Co., Brooklyn, N. Y. Toilet and salt-water soap. No. 87,093; June 25; Gaz. vol. 179; p. 1103.
Morgan, Ernest V., Cleveland, Ohio. Fire-resisting cement. No. 84,986; Jan. 16; Gaz. vol. 174; p. 825.
Morgan, Hamilton, San Francisco, Cal. Undertakers' make-up outfits. No. 87,788; Aug. 6; Gaz. vol. 181; p. 261.
Morningstar & Co., Chas., assignor to J. Morningstar, New York, N. Y. Corn-starch and food-starch. No. 85,368; Feb. 13; Gaz. vol. 175; p. 538.
Morningstar, Joseph. (See Morningstar & Co., Chas., assignor.)
Morningstar, Joseph, New York, N. Y. Dried blood and albumen. No. 85,469; Feb. 20; Gaz. vol. 175; p. 839.
Morningstar, Joseph, New York, N. Y. Starch. No. 85,470; Feb. 20; Gaz. vol. 175; p. 839.
Morrill, Chas., New York, N. Y. Certain named tools and liquid-soap dispensers. No. 88,015; Aug. 20; Gaz. vol. 181; p. 816.
Morris Carswell & Coy. Limited, Glasgow, Scotland. Certain named fishing goods. No. 87,906; Aug. 13; Gaz. vol. 181; p. 537.
Morris & Company, Chicago, Ill. Bone-meal fertilizers. No. 87,238; July 2; Gaz. vol. 180; p. 318.
Morris & Company, Chicago, Ill. Mixed fertilizer. Nos. 88,687–96; Oct. 15; Gaz. vol. 183; p. 778.
Morris & Company, Chicago, Ill. Certain named foods. No 89,284; Dec. 3; Gaz. vol. 185; p. 245.
Morris Fertilizer Co., Atlanta, Ga. Fertilizer. No. 88,776; Oct. 22; Gaz. vol. 183; p. 1028.
Morris, Katie, Beaumont, Cal. Remedy for catarrh. No. 84,987; Jan. 16; Gaz. vol. 174; p. 825.
Morris, Woodbury T., Columbus, Ohio. Coffee compounds. No. 87,644; July 30; Gaz. vol. 180; p. 1389.
Morrison, Enos M., San Francisco, Cal. Coffee substitute. No. 86,668; May 21; Gaz. vol. 178; p. 881.
Morrow-Lawton Company, New York, N. Y. Breakfast cereals made of oats. No. 85,763; Mar. 12; Gaz. vol. 176; p. 522.

Alphabetical list of registrants of trade-marks—Continued.

Morrow-Lawton Company, New York, N. Y., and Milwaukee, Wis. Rolled oats. No. 88,191; Sept. 3; Gaz. vol. 182; p. 244.
Morsul Company, The, assignor to Delight-Ol Products Co., Milwaukee, Wis. Floor-dressing. No. 89,049; Nov. 5; Gaz. vol. 184; p. 282.
Morton, John T., Lynchburg, Va. Medicinal preparations for chapped skin, &c. No. 86,819; June 4; Gaz. vol. 179; p. 282.
Morton, Thomas, New York, N. Y. Sash chains and balances. No. 86,724; May 28; Gaz. vol. 178; p. 1148.
Morton, Thomas, New York, N. Y. Window-sash chains. No. 87,907; Aug. 13; Gaz. vol. 181; p. 537.
Moseley & McNiel, Gotha, Fla. Oranges, grape-fruit, tangerines, and lemons. No. 88,917; Oct. 29; Gaz. vol. 183; p. 1303.
Moseley & Motley Milling Co., The, Rochester, N. Y. Wheat-flour. No. 84,988; Jan. 16; Gaz. vol. 174; p. 825.
Moseley & Motley Milling Co., Rochester, N. Y. Wheat-flour. No. 85,156; Jan. 30; Gaz. vol. 174; p. 1214.
Moskowitz, Samuel, New York, N. Y. Go-carts and baby-carriages. No. 88,770; Oct. 22; Gaz. vol. 183; p. 1028.
Moss, Milton E., Hartford, Conn. Games. No. 88,192; Sept. 3; Gaz. vol. 182; p. 244.
Mothersill Remedy Company Limited, Detroit, Mich. Sea-sickness remedies. No. 89,412; Dec. 10; Gaz. vol. 185; p. 521.
Motor Appliance Company of America, New York, N. Y. Carbureters. No. 88,697; Oct. 15; Gaz. vol. 183; p. 778.
Motor Boat Publishing Co., New York, N. Y. Semi-monthly magazine. No. 85,471; Feb. 20; Gaz. vol. 175; p. 839.
Moyer, Malcolm B., Montevideo, Minn. Hay, feed, or litter carriers. No. 87,094; June 25; Gaz. vol. 179; p. 1103.
Mt. Pleasant Glove Manufacturing Co., Mount Pleasant, Iowa. Gloves and mittens. No. 87,095; June 25; Gaz. vol. 179; p. 1103.
Mu-Col Company, The, Buffalo, N. Y. Liquid antiseptic solutions. No. 88,918; Oct. 29; Gaz. vol. 183; p. 1303.
Mullen Brothers, Brockton, Mass. Leather enamel and polishes. No. 88,510; Sept. 24; Gaz. vol. 182; p. 967.
Mullen, Matthiase J., Pittsburgh, Pa. Leather boots and shoes. No. 88,329; Sept. 10; Gaz. vol. 182; p. 506.
Multi-Speed Shutter Company, assignor to The Precision Machine Company, New York, N. Y. Moving-picture apparatus and supplies. No. 88,633; Oct. 8; Gaz. vol. 183; p. 499.
Munter, Charles, New York, N. Y. Orthopedic surgical devices. No. 89,132; Nov. 12; Gaz. vol. 184; p. 546.
Muralo Company, The, New York, N. Y. Washable flat paint. No. 86,147; Apr. 16; Gaz. vol. 177; p. 766.
Muralo Company, The, New York, N. Y. Calcimine. No. 86,725; May 28; Gaz. vol. 178; p. 1148.
Murray Drug Co., The, Columbia, S. C. Spices. No. 88,412; Sept. 17; Gaz. vol. 182; p. 717.
Mustad & Son, O., Christiania, Norway. Horseshoe-nails. No. 89,285; Dec. 3; Gaz. vol. 185; p. 245.
Mustard & Company, New York, N. Y., and Shanghai, China. Cotton piece goods. Nos. 86,316–17; Apr. 30; Gaz. vol. 177; p. 1292.
Mustard & Company, New York, N. Y., and Shanghai, China. Cotton piece goods. No. 86,433; May 7; Gaz. vol. 178; p. 315.
Mutual Cotton Oil Co., Fort Worth, Tex. Stock food. No. 85,158; Jan. 30; Gaz. vol. 174; p. 1214.
Mutual Electric & Machine Company, Wheeling, W. Va. Certain electrical appliances. No. 85,270; Feb. 6; Gaz. vol. 175; p. 260.
Myers Gas Generator Company, Buffalo, N. Y. Gaseous liquid for combustion, illuminating, &c. No. 88,330; Sept. 10; Gaz. vol. 182; p. 506.
N. Erlanger, Blumgart & Co., New York, N. Y. Corduroy and velvet piece goods. No. 88,175; Sept. 3; Gaz. vol. 182; p. 243.
N. Palmer & Co., Bridgeport, Conn. Leather belting. No. 86,547; May 14; Gaz. vol. 178; p. 588.
N. Shure Co., Chicago, Ill. Fountain-pens and parts therefor. No. 87,815; Aug. 6; Gaz. vol. 181; p. 262.
N. K. Fairbank Company, The, Chicago, Ill. Cooking compound containing cotton-seed oil and oleo-stearin. No. 85,235; Feb. 6; Gaz. vol. 175; p. 259.
N. K. Fairbank Company, The, Chicago, Ill. Scouring compound. No. 85,571; Feb. 27; Gaz. vol. 175; p. 1094.
N. K. Fairbank Company, The, Chicago, Ill. Cooking compound containing cotton-seed oil and oleo-stearin. No. 85,905; Mar. 26; Gaz. vol. 176; p. 1066.
N. K. Fairbank Company, The, Chicago, Ill. Cooking compound comprising cotton-seed oil and oleo-stearin. Nos. 86,045–7; Apr. 9; Gaz. vol. 177; p. 519.
N. K. Fairbank Company, The, Chicago, Ill. Cotton-seed oil. No. 88,402; Sept. 17; Gaz. vol. 182; p. 717.
Naamlooze Vennootschap Lym-En Gelatinefabriek "Delft," Delft, Netherlands. Food gelatin. No. 86,434; May 7; Gaz. vol. 178; p. 315.
Nagel-Chase Manufacturing Company, The, Chicago, Ill. Certain heating, lighting, and ventilating apparatus. No. 86,820; June 4; Gaz. vol. 179; p. 282.
Nakayama, Kosaburo, Osaka, Japan. Certain named toilet goods. No. 88,919; Oct. 29; Gaz. vol. 183; p. 1303.
Nalley Grocery Co., Austin, Tex. Canned vegetables and fruits. No. 84,989; Jan. 16; Gaz. vol. 174; p. 825.
Nalley Grocery Co., Austin, Tex. Canned fruits and vegetables. No. 88,920; Oct. 29; Gaz. vol. 183; p. 1303.
Nao, Shigetaro. (See Seizi, Shinohara, assignor.)
Napa Fruit Co., Napa, Cal. Dried fruits. Nos. 87,239–40; July 2; Gaz. vol. 180; p. 318.
Napa Glove Co., Napa, Cal. Gloves. No. 88,921; Oct. 29; Gaz. vol. 183; p. 1303.
Nashua Manufacturing Company, Nashua, N. H. Cotton piece goods and blankets. No. 87,647; July 30; Gaz. vol. 180; p. 1389.
Nashville Hardwood Flooring Company, West Nashville, Tenn. Flooring, edge-strips for floors, &c. No. 85,764; Mar. 12; Gaz. vol. 176; p. 522.
Nashville Roller Mills, Nashville, Tenn. Wheat-flour. No. 85,827; Mar. 19; Gaz. vol. 176; p. 746.
Nashville Spring and Mattress Co., Nashville, Tenn. Mattresses, bed-springs, cots, and feather pillows. No. 86,821; June 4; Gaz. vol. 179; p. 282.
Natchez Packing Company, Natchez, Miss. Certain foods. No. 87,241; July 2; Gaz. vol. 180; p. 318.
Nathan Anklet Support Co., New York, N. Y. Arch and ankle supports and wrist-straps. No. 88,581; Oct. 1; Gaz. vol. 183; p. 214.
Nathan & Greer Co., New York, N. Y. Cotton piece goods. No. 88,777; Oct. 22; Gaz. vol. 183; p. 1028.
National Automatic Tool Company, The, Dayton, Ohio, and Richmond, Ind. Drilling, reaming, tapping, &c., machines. No. 89,486; Dec. 17; Gaz. vol. 185; p. 824.
National Biscuit Company, Jersey City, N. J., and New York, N. Y. Biscuit. Nos. 84,849–50; Jan. 9; Gaz. vol. 174; p. 580.
National Biscuit Company, Jersey City, N. J., and New York, N. Y. Biscuits. Nos. 85,916–17; Mar. 26; Gaz. vol. 176; p. 1067.
National Biscuit Company, Jersey City, N. J., and New York, N. Y. Biscuit. Nos. 85,981–5; Apr. 2; Gaz. vol. 177; p. 236.
National Biscuit Company, Jersey City, N. J., and New York, N. Y. Biscuits. No. 86,077; Apr. 9; Gaz. vol. 177; p. 520.
National Biscuit Company, Jersey City, N. J., and New York, N. Y. Biscuit. Nos. 86,318–20; Apr. 30; Gaz. vol. 177; p. 1292.
National Biscuit Company, Jersey City, N. J., and New York, N. Y. Biscuit. Nos. 86,924–9; June 11; Gaz. vol. 179; pp. 568–9.
National Biscuit Company, Jersey City, N. J., and New York, N. Y. Biscuit. No. 87,242; July 2; Gaz. vol. 180; p. 318.
National Biscuit Company, Jersey City, N. J., and New York, N. Y. Biscuit. No. 87,356; July 9; Gaz. vol. 180; p. 598.
National Biscuit Company, Jersey City, N. J., and New York, N. Y. Biscuit. Nos. 87,467–9; July 16; Gaz. vol. 180; p. 875.
National Biscuit Company, Jersey City, N. J., and New York, N. Y. Biscuit. No. 87,648; July 30; Gaz. vol. 180; p. 1389.
National Biscuit Company, Jersey City, N. J., and New York, N. Y. Biscuit. No. 87,908; Aug. 13; Gaz. vol. 181; p. 537.
National Biscuit Company, Jersey City, N. J., and New York, N. Y. Biscuit and sugar-wafers. No. 88,333; Sept. 10; Gaz. vol. 182; p. 506.
National Biscuit Company, Jersey City, N. J., and New York, N. Y. Biscuit. Nos. 88,334–9; Sept. 10; Gaz. vol. 182; p. 506.
National Biscuit Company, New York, N. Y. Biscuit. No. 88,340; Sept. 10; Gaz. vol. 182; p. 506.
National Biscuit Company, Jersey City, N. J., and New York, N. Y. Biscuit. Nos. 88,413–14; Sept. 17; Gaz. vol. 182; p. 717.
National Biscuit Company, Jersey City, N. J., and New York, N. Y. Biscuit. Nos. 88,922–33; Oct. 29; Gaz. vol. 183; pp. 1303–4.
National Biscuit Company, Jersey City, N. J., and New York, N. Y. Biscuits. Nos. 89,133–4; Nov. 12; Gaz. vol. 184; p. 546.
National Biscuit Company, Jersey City, N. J., and New York, N. Y. Biscuit. Nos. 89,487–90; Dec. 17; Gaz. vol. 185; pp. 824–5.
National Biscuit Company, Jersey City, N. J., and New York, N. Y. Biscuit. No. 89,572; Dec. 24; Gaz. vol. 185; p. 1050.
National Blank Book Company, Holyoke, Mass. Loose-leaf binders. No. 87,649; July 30; Gaz. vol. 180; p. 1389.
National Candy Company, The, Jersey City, N. J., and St. Louis, Mo. Candy. No. 86,435; May 7; Gaz. vol. 178; p. 315.
National Carbon Company, Cleveland, Ohio. Dry cells. Nos. 87,470–1; July 16; Gaz. vol. 180; p. 875.
National Carbon Company, Cleveland, Ohio. Dry cells. Nos. 87,650–1; July 30; Gaz. vol. 180; p. 1389.
National Carbon Company, Cleveland, Ohio. Dry cells. No. 88,016; Aug. 20; Gaz. vol. 181; p. 816.
National Carbon Company, Cleveland, Ohio. Dry cells. Nos. 88,194–5; Sept. 3; Gaz. vol. 182; p. 244.

Alphabetical list of registrants of trade-marks—Continued.

National Carbon Company, Cleveland, Ohio. Dry cells. No. 88,341; Sept. 10; Gaz. vol. 182; p. 506.
National Carbon Company, Cleveland, Ohio. Dry cells. Nos. 88,634–7; Oct. 8; Gaz. vol. 183; p. 499.
National Carbon Company, Cleveland, Ohio. Dry cells. No. 89,050; Nov. 5; Gaz. vol. 184; p. 282.
National Carbon Company, Cleveland, Ohio. Dry cells. No. 89,413; Dec. 10; Gaz. vol. 185; p. 521.
National Carbon Company, Cleveland, Ohio. Dry cells. No. 89,684; Dec. 31; Gaz. vol. 185; p. 1375.
National Chemical Co., Washington, D. C. Floor-oil. No. 87,243; July 2; Gaz. vol. 180; p. 318.
National Cloak & Suit Co., New York, N. Y. Petticoats. No. 86,321; Apr. 30; Gaz. vol. 177; p. 1292.
National Cloak & Suit Co., New York, N. Y. Clothing. No. 86,322; Apr. 30; Gaz. vol. 177; p. 1292.
National Committee of the Confederated Supply Associations, New York, N. Y. Certain plumbers' supplies. No. 86,078; Apr. 9; Gaz. vol. 177; p. 520.
National Committee of The Confederated Supply Associations, New York, N. Y. Range-boilers. No. 86,542; May 14; Gaz. vol. 178; p. 588.
National Dictograph Co., New York, N. Y. Telephonic apparatus. No. 85,473; Feb. 20; Gaz. vol. 175; p. 839.
National Essence for Coffee Co., Philadelphia, Pa. Coffee substitute. No. 86,930; June 11; Gaz. vol. 179; p. 569.
National Exterminating Co., New York, N. Y. Vermin-exterminating preparations. No. 84,911; Jan. 9; Gaz. vol. 174; p. 582.
National Fire Proofing Company, Pittsburgh, Pa. Waterproofing compositions for use in fireproof construction. No. 85,369; Feb. 13; Gaz. vol. 175; p. 538.
National Fire Proofing Company, Pittsburgh, Pa. Terra-cotta and clay blocks, bricks, and tiles. No. 86,436; May 7; Gaz. vol. 178; p. 315.
National Grocer Company, Detroit, Mich. Coffee. No. 88,934; Oct. 29; Gaz. vol. 183; p. 1304.
National Gum & Mica Co., New York, N. Y. Glues, gums, mucilage, and pastes. No. 85,474; Feb. 20; Gaz. vol. 175; p. 839.
National Insulator Co., Boston, Mass. Waterproofing and protective paint. No. 85,765; Mar. 12; Gaz. vol. 176; p. 522.
National Lead Company, New York, N. Y., and St. Louis, Mo. Solder. No. 89,573; Dec. 24; Gaz. vol. 185; p. 1050.
National Licorice Company, Brooklyn, N. Y. Stick-licorice, licorice chewing-gum and wafers. No. 88,935; Oct. 29; Gaz. vol. 183; p. 1304.
National Musical String Company, New Brunswick, N. J. Musical-instrument strings. No. 88,511; Sept. 24; Gaz. vol. 182; p. 967.
National Packing Company, Portland, Me., and Chicago, Ill. Cured hams, bacon, shoulders, and sausage. No. 89,574; Dec. 24; Gaz. vol. 185; p. 1050.
National Papeterie Company, Springfield, Mass. Writing-paper and envelops. No. 88,582; Oct. 1; Gaz. vol. 183; p. 214.
National Pharmacy Co., Oakland, Cal. Tooth-paste. No. 87,909; Aug. 13; Gaz. vol. 181; p. 537.
National Saw Company, Newport, Ky. Saws. No. 87,652; July 30; Gaz. vol. 180; p. 1389.
National Saw Company, The, Newport, Ky. Saws. No. 89,491; Dec. 17; Gaz. vol. 185; p. 825.
National Sewing Machine Company, Belvidere, Ill. Washing-machines. No. 85,986; Apr. 2; Gaz. vol. 177; p. 236.
National Starch Company, Jersey City, N. J., and New York, N. Y. Corn-starch. No. 84,851; Jan. 9; Gaz. vol. 174; p. 580.
National Starch Company, New York, N. Y. Edible starch. No. 84,852; Jan. 9; Gaz. vol. 174; p. 580.
National Starch Company, New York, N. Y. Starch. No. 84,912; Jan. 9; Gaz. vol. 174; p. 582.
National Starch Company, New York, N. Y. Edible starch. No. 85,159; Jan. 30; Gaz. vol. 174; p. 1214.
National Starch Co., New York, N. Y. Corn-starch. No. 87,244; July 2; Gaz. vol. 180; p. 318.
National Starch Co., New York, N. Y. Laundry starch. No. 87,245; July 2; Gaz. vol. 180; p. 318.
National Starch Co., New York, N. Y. Corn-starch. No. 87,357; July 9; Gaz. vol. 180; p. 598.
National Sweeper Company, Newark, N. J. Carpet-sweepers. No. 86,726; May 28; Gaz. vol. 178; p. 1148.
National Tube Company, Pittsburgh, Pa. Pipes, tubes, and casings. No. 88,017; Aug. 20; Gaz. vol. 181; p. 816.
National Tube Flavor Co., Newark, N. Y. Certain toilet preparations and food-coloring compounds. No. 84,789; Jan. 2; Gaz. vol. 174; p. 285.
National Utilization Co., Norfolk, Va. Tankage. No. 84,790; Jan. 2; Gaz. vol. 174; p. 285.
National Warehouse and Storage Company, East St. Louis, Ill. Horse feed. No. 86,437; May 7; Gaz. vol. 178; p. 315.
National Water Company, Waukesha, Wis., and New York, N. Y. Natural spring drinking-water. Nos. 85,042–3; Jan. 23; Gaz. vol. 174; p. 1023.
National Whalebone Co., New York, N. Y. Corset-stays. No. 86,233; Apr. 23; Gaz. vol. 177; p. 1040.
Naumkeag Steam Cotton Co., Salem, Mass. Sheets and pillow-cases. No. 87,554; July 23; Gaz. vol. 180; p. 1134.
Naumkeag Steam Cotton Co., Salem, Mass. Sheets and pillow-cases. No. 89,052; Nov. 5; Gaz. vol. 184; p. 282.
Nebraska Corn Products Co. (See Davis Milling Company, assignor.)
Nectar Company, The, New York, N. Y. Distilled anisette cordial. No. 89,051; Nov. 5; Gaz. vol. 184; p. 282.
Neel-Armstrong Company, Akron, Ohio. Certain medical appliances. No. 86,438; May 7; Gaz. vol. 178; p. 315.
Neely & Peacock, Chicago, Ill. Type-writer carbon-paper and ribbon. No. 88,583; Oct. 1; Gaz. vol. 183; p. 214.
Negretti & Zambra, London, England. Iron and steel wire. No. 86,234; Apr. 23; Gaz. vol. 177; p. 1040.
Nelaton Remedy Co., Baltimore, Md. External remedy for rheumatism, gout, and neuralgia. No. 89,414; Dec. 10; Gaz. vol. 185; p. 521.
Nelson, Baker & Co., Detroit, Mich. Antiseptic compounds. No. 87,472; July 16; Gaz. vol. 180; p. 875.
Nelson & Landsberg, New York, N. Y. Certain named articles of clothing. No. 88,936; Oct. 29; Gaz. vol. 183; p. 1304.
Neptune Meter Company, Jersey City, N. J., and New York, N. Y. Water and other fluid meters and parts thereof. No. 88,512; Sept. 24; Gaz. vol. 182; p. 967.
Neptune Meter Company, Jersey City, N. J., and New York, N. Y. Water and other fluid meters and parts thereof. Nos. 88,779–80; Oct. 22; Gaz. vol. 183; p. 1028.
Nestor Gianaclis Company, Portland, Me., and Boston, Mass. Cigarettes. No. 89,685; Dec. 31; Gaz. vol. 185; p. 1375.
Neumond, K. & E., New Orleans, La. Stock feed. No. 88,440; Sept. 17; Gaz. vol. 182; p. 718.
Neuss, Hesslein & Co., New York, N. Y. Woven cotton plaids. No. 87,555; July 23; Gaz. vol. 180; p. 1134.
Neuthard, Alexander H., Houston, Tex. Cigars and cigarettes. No. 87,790; Aug. 6; Gaz. vol. 181; p. 261.
New Castle Leather Co., New York, N. Y. Kid-leather. No. 86,439; May 7; Gaz. vol. 178; p. 315.
New Century Corporation, Point Loma, Cal. Weekly magazines. No. 88,513; Sept. 24; Gaz. vol. 182; p. 967.
New Columbia Shirt Company, New York, N. Y. Shirts. No. 86,150; Apr. 16; Gaz. vol. 177; p. 766.
New England Cereal Co., South Norwalk, Conn. Cereal food compound. No. 86,610; May 21; Gaz. vol. 178; p. 880.
New England Laboratory Company, Lynn, Mass. Cold-cream. No. 84,791; Jan. 2; Gaz. vol. 174; p. 285.
New Failsworth Hat Manufacturing Company, Limited, Failsworth, near Manchester, England. Hats, helmets, caps, and bonnets. No. 88,342; Sept. 10; Gaz. vol. 182; p. 506.
New Haven Clock Co., The, New Haven, Conn. Clocks. No. 87,791; Aug. 6; Gaz. vol. 181; p. 261.
New Idea Publishing Co., New York, N. Y. Monthly magazine. No. 87,473; July 16; Gaz. vol. 180; p. 875.
New Idea Spreader Co., Coldwater, Ohio. Certain agricultural machines and implements. No. 88,343; Sept. 10; Gaz. vol. 182; p. 506.
New Jersey Asbestos Co., The, Camden, N. J. Certain machinery packing. No. 85,987; Apr. 2; Gaz. vol. 177; p. 236.
New Jersey Equipment Company, Elizabeth, N. J. Carbureters and parts thereof. No. 88,018; Aug. 20; Gaz. vol. 181; p. 816.
New Jersey Wood Finishing Co., Perth Amboy, N. J. Varnish. No. 86,079; Apr. 9; Gaz. vol. 177; p. 520.
New London Ship & Engine Company, The, Groton, Conn. Internal-combustion engines. No. 88,344; Sept. 10; Gaz. vol. 182; p. 506.
New Vacuum Heating Co. Ltd., Leicester, England. Certain named heating apparatus and parts therefor. No. 89,195; Nov. 19; Gaz. vol. 184; p. 799.
New York Air Brake Company, New York, N. Y. Air-brakes and parts thereof. No. 86,543; May 14; Gaz. vol. 178; p. 588.
New York Air Brake Company, New York, N. Y. Air-pumps and parts thereof. No. 86,727; May 28; Gaz. vol. 178; p. 1148.
New York Belting & Packing Co. Ltd., New York, N. Y., and Passaic, N. J. Certain kinds of machinery packing. No. 85,828; Mar. 19; Gaz. vol. 176; p. 746.
New York Herald Company, The, New York, N. Y. Pictures and illustrations. Nos. 84,853–69; Jan. 9; Gaz. vol. 174; pp. 580–1.
New York Herald Company, New York, N. Y. Pictures and illustrations. Nos. 84,991–2; Jan. 16; Gaz. vol. 174; p. 825.
New York & London Drug Co., New York, N. Y. Candies. No. 87,653; July 30; Gaz. vol. 180; p. 1389.
New York Mattress Co., Boston, Mass. Mattresses. No. 88,345; Sept. 10; Gaz. vol. 182; p. 506.
New York Skirt Co., The, New York and Cortland, N. Y. Silk goods in the piece. No. 86,151; Apr. 16; Gaz. vol. 177; p. 766.

Alphabetical list of registrants of trade-marks—Continued.

New York Stamping Company, Brooklyn, N. Y. Frying-pans, skillets, spiders, and griddles. No. 86,080; Apr. 9; Gaz. vol. 177; p. 520.
New York Stamping Company, Brooklyn, N. Y. Pulleys. No. 88,196; Sept. 3; Gaz. vol. 182; p. 244.
Newark Embroidery Works, Newark, N. J. Handkerchiefs. No. 85,475; Feb. 20; Gaz. vol. 175; p. 839.
Newark Packing Company, Newark, N. J. Smoked beef and bacon. No. 84,990; Jan. 16; Gaz. vol. 174; p. 825.
Newburgh Silk Company, Newburgh, N. Y. Silks and satins in the piece. No. 88,781; Oct. 22; Gaz. vol. 183; p. 1028.
Newman, Harry T., Chicago, Ill. Metal-polish. No. 87,096; June 25; Gaz. vol. 179; p. 1103.
Newman Ice & Coal Co., Helena, Ark. Coal. No. 89,286; Dec. 3; Gaz. vol. 185; p. 245.
Newskin Company, Brooklyn, N. Y. Substitute for court-plaster. No. 86,440; May 7; Gaz. vol. 178; p. 315.
Newton Line Company, Homer, N. Y. Certain sporting goods. No. 86,441; May 7; Gaz. vol. 178; p. 315.
Newton, Peter, Chicago, Ill. Cordials. No. 85,875; Mar. 26; Gaz. vol. 176; p. 1066.
Newton Tea & Spice Co., The, Cincinnati, Ohio. Coffee, tea, and spices. No. 86,822; June 4; Gaz. vol. 179; p. 282.
Nicholas Kuhnen Cigar Co., Davenport, Iowa. Cigars, cigarettes, and tobaccos. No. 85,871; Mar. 26; Gaz. vol. 176; p. 1065.
Nichols, Howard E., St. Louis, Mo. Hair-stains. No. 85,607; Feb. 27; Gaz. vol. 175; p. 1095.
Nickel Plate Elevator Co., Cleveland, Ohio. Poultry feed. No. 88,514; Sept. 24; Gaz. vol. 182; p. 967.
Nicolaou, George P. P., Salisbury, N. C. Compound baking-flour. No. 85,160; Jan. 30; Gaz. vol. 174; p. 1214.
Nicolaus, Georg L., Cleveland, Ohio. Pharmaceutical preparations for the treatment of rheumatism, &c. No. 88,698; Oct. 15; Gaz. vol. 183; p. 778.
Nielson, Charles C., Kansas City, Mo. Ointment. No. 85,877; Mar. 26; Gaz. vol. 176; p. 1066.
Nienhauser, Bernard A., St. Paul, Minn. Wrapping-paper. No. 88,515; Sept. 24; Gaz. vol. 182; p. 967.
Niese Grocer Company, St. Louis, Mo. Certain named foods. No. 88,415; Sept. 17; Gaz. vol. 182; p. 717.
Nilsson, Axel W., New York, N. Y. Floor-tiling. No. 89,686; Dec. 31; Gaz. vol. 185; p. 1375.
Niven, Maxim, New York, N. Y. Olive-oil food products. No. 84,993; Jan. 16; Gaz. vol. 174; p. 825.
No-Air Tire Compound Co., Kansas City, Mo. Tire-filling rubber compound. No. 88,516; Sept. 24; Gaz. vol. 182; p. 967.
Noble, Frank W., Southwick, Mass. Popcorn. No. 84,870; Jan. 9; Gaz. vol. 174; p. 581.
Non-Corroding Metal Company, The, New York, N. Y. Metal having the appearance of gold. No. 87,246; July 2; Gaz. vol. 180; p. 318.
Nonbreakable Toy Co., New York, N. Y. Toys. No. 84,792; Jan. 2; Gaz. vol. 174; p. 285.
Noncarpicine Company, The, Pierre, S. D., and Chicago, Ill. Remedy for headache, neuralgia, &c. No. 84,994; Jan. 16; Gaz. vol. 174; p. 825.
Nonotuck Silk Company, The, Florence and Boston, Mass. Silk thread, machine-twist, &c. No. 84,871; Jan. 9; Gaz. vol. 174; p. 581.
Nonotuck Silk Company, The, Northampton, Mass. Embroidery-floss. No. 85,271; Feb. 6; Gaz. vol. 175; p. 260.
Nonotuck Silk Company, The, Northampton, Mass. Ribbons. No. 86,081; Apr. 9; Gaz. vol. 177; p. 520.
Nonotuck Silk Company, The, Northampton, Mass. Silk, silk and cotton, and cotton ribbons. No. 87,556; July 23; Gaz. vol. 180; p. 1134.
Norddeutsche Wollkämmerei & Kammgarnspinnerei, Delmenhorst, Germany. Woolen yarn. No. 84,995; Jan. 16; Gaz. vol. 174; p. 825.
Norddeutsche Wollkämmerei & Kammgarnspinnerei, Bremen and Delmenhorst, Germany. Woolen yarn. Nos. 84,996–7; Jan. 16; Gaz. vol. 174; p. 825.
Norddeutsche Wollkämmerei & Kammgarnspinnerei, Bremen and Delmenhorst, Germany. Toilet soap. Nos. 85,161–2; Jan. 30; Gaz. vol. 174; p. 1214.
Norddeutsche Wollkämmerei & Kammgarnspinnerei, Bremen and Delmenhorst, Germany. Woolen yarn. No. 85,163; Jan. 30; Gaz. vol. 174; p. 1214.
Norddeutsche Wollkämmerei & Kammgarnspinnerei, Bremen and Delmenhorst, Germany. Woolen yarn. No. 85,989; Apr. 2; Gaz. vol. 177; p. 236.
Norddeutsche Wollkämmerei & Kammgarnspinnerei, Bremen and Delmenhorst, Germany. Toilet soap. No. 87,097; June 25; Gaz. vol. 179; p. 1103.
Norddeutsche Wollkämmerei & Kammgarnspinnerei, Bremen and Delmenhorst, Germany. Toilet soap. No. 88,517; Sept. 24; Gaz. vol. 182; p. 967.
Norman Baking Company, The, Minneapolis, Minn. Bread. No. 87,910; Aug. 13; Gaz. vol. 181; p. 537.
Norman Company Inc., The, New York, N. Y. Whiskies and gin. No. 88,416; Sept. 17; Gaz. vol. 182; p. 717.
Norman Company Inc., The, New York, N. Y. Cigars and cigarettes. No. 88,584; Oct. 1; Gaz. vol. 183; p. 214.
Norris, Alfred E., Philadelphia, Pa. Blend of whiskies. No. 89,287; Dec. 3; Gaz. vol. 185; p. 245.
North American Construction Company, Bay City, Mich. Knockdown houses. No. 89,135; Nov. 12; Gaz. vol. 184; p. 546.
North American Mercantile Co., San Francisco, Cal. Canned crabs, shrimps, and abalone. Nos. 88,417–18; Sept. 17; Gaz. vol. 182; p. 717.
North & Judd Manufacturing Company, The, New Britain, Conn. Oxidizing liquid coatings for metal articles. No. 86,728; May 28; Gaz. vol. 178; p. 1148.
Northampton Brewing Co., The, Northampton, Pa. Beer. No. 87,911; Aug. 13; Gaz. vol. 181; p. 537.
Northern Pickle Co., Tacoma, Wash. Tomato catsup and vinegar. No. 88,347; Sept. 10; Gaz. vol. 182; p. 506.
Northern Pickle Co., Tacoma, Wash. Certain named foods. No. 89,492; Dec. 17; Gaz. vol. 185; p. 825.
Northey Manufacturing Company, Waterloo, Iowa. Refrigerators and cooling-rooms. No. 85,608; Feb. 27; Gaz. vol. 175; p. 1095.
Northwestern Electric Equipment Company, Brooklyn, N. Y. Certain electrical apparatus and supplies. No. 86,932; June 11; Gaz. vol. 179; p. 569.
Northwestern Elevator and Mill Co., Toledo, Mount Vernon, and Loudonville, Ohio. Prepared cereal flour. No. 86,933; June 11; Gaz. vol. 179; p. 569.
Northwestern Expanded Metal Co., Chicago, Ill. Expanded-metal lath. No. 85,370; Feb. 13; Gaz. vol. 175; p. 538.
Norton, Julia A., Los Angeles, Cal. Face cream and powder and hair-tonic. No. 86,823; June 4; Gaz. vol. 179; p. 282.
Norvell-Shapleigh Hardware Company, St. Louis, Mo. Certain cutlery and tools. No. 86,499; May 7; Gaz. vol. 178; p. 317.
Norwine Coffee Company, St. Louis, Mo. Coffee, tea, olive-oil, and flavoring extracts. No. 86,082; Apr. 9; Gaz. vol. 177; p. 520.
Nothern, William C., Little Rock, Ark. Stock food. No. 88,106; Aug. 27; Gaz. vol. 181; p. 1069.
Novelty Candy Co., New York, N. Y. Candy. No. 89,415; Dec. 10; Gaz. vol. 185; p. 521.
Novelty Candy Company, New York, N. Y. Candy. No. 88,937; Oct. 29; Gaz. vol. 183; p. 1304.
Novelty Cutlery Company, The, Canton, Ohio. Certain named knives, letter-openers, spatulas, &c. No. 89,053; Nov. 5; Gaz. vol. 184; p. 282.
Novelty Machine Co., New York, N. Y. Certain amusement devices. No. 85,476; Feb. 20; Gaz. vol. 175; p. 839.
Novelty News Co., Chicago, Ill. Magazine. No. 87,247; July 2; Gaz. vol. 180; p. 318.
Noyes-Norman Shoe Company, St. Joseph, Mo. Leather boots and shoes. No. 87,912; Aug. 13; Gaz. vol. 181; p. 537.
Nu-Gloss Specialty Co., Philadelphia, Pa. Furniture-polish. No. 85,477; Feb. 20; Gaz. vol. 175; p. 839.
Nuera Pharmacal Co., Detroit, Mich. Remedies for sore throat and bronchial ailments. No. 85,829; Mar. 19; Gaz. vol. 176; p. 746.
Nulac Company, Portland, Oreg. Scouring preparations. No. 87,358; July 9; Gaz. vol. 180; p. 598.
Nürnberger Abziehbilder-Fabrik Troeger & Bucking, Nuremberg, Germany. Transfer-pictures. No. 87,098; June 25; Gaz. vol. 179; p. 1103.
Nürnberger Metall- und Lackierwarenfabrik vormals Gebrüder Bing, Aktiengesellschaft, Nuremberg, Germany. Certain games and toys. No. 85,272; Feb. 6; Gaz. vol. 175; p. 260.
Nürnberger Metall- und Lackierwaarenfabrik, vormals Gebrüder Bing Aktiengesellschaft, Nuremberg, Germany. Certain kinds of tableware and household utensils. No. 88,107; Aug. 27; Gaz. vol. 181; p. 1069.
Nutry & Cook Manufacturing Co., New York, N. Y. Safes. No. 87,557; July 23; Gaz. vol. 180; p. 1134.
O. Newman Company, The, Los Angeles, Cal. Games. No. 88,346; Sept. 10; Gaz. vol. 182; p. 506.
O. H. Tracy Co., Inc., Washington, D. C. Dental broaches. No. 88,534; Sept. 24; Gaz. vol. 182; p. 967.
O. K. Manufacturing Company, Syracuse, N. Y. Certain stationery supplies. No. 86,323; Apr. 30; Gaz. vol. 177; p. 1292.
O. K. Tool Holder Company, The, Shelton, Conn. Certain cutters and holders therefor. No. 85,675; Mar. 5; Gaz. vol. 176; p. 270.
O. V. Tracy & Co., Syracuse, N. Y. Certain named goods. No. 89,400; Dec. 10; Gaz. vol. 185; p. 521.
O'Callaghan & Fedden, New York, N. Y. Stockings. No. 85,478; Feb. 20; Gaz. vol. 175; p. 839.
O'Keefe, Daniel, St. Louis, Mo. Composition for the treatment of leathers, hides, and pelts. No. 85,165; Jan. 30; Gaz. vol. 174; p. 1214.
O'Neill, William H., Pawtucket, R. I. Base for emtalming fluid. No. 89,136; Nov. 12; Gaz. vol. 184; p. 546.
Oachs, Milford H., New York, N. Y. Antiseptics, disinfectants, and insecticides. No. 86,235; Apr. 23; Gaz. vol. 177; p. 1040.
Oakes Manufacturing Company, Long Island City, N. Y., and Boston, Mass. Certain chemical preparation. No. 86,824; June 4; Gaz. vol. 179; p. 282.
Oakford and Fahnestock, Peoria, Ill. Certain foods. No. 87,248; July 2; Gaz. vol. 180; p. 318.

Alphabetical list of registrants of trade-marks—Continued.

Oakville Company, Waterbury, Conn. Safety-pins. No. 85,273; Feb. 6; Gaz. vol. 175; p. 261.
Oakville Company, Waterbury, Conn. Toilet-pins. No. 85,274; Feb. 6; Gaz. vol. 175; p. 261.
Oakville Company, Waterbury, Conn. Safety-pins. No. 85,275; Feb. 6; Gaz. vol. 175; p. 261.
Oakville Company, Waterbury, Conn. Toilet-pins. No. 85,276; Feb. 6; Gaz. vol. 175; p. 261.
Oakville Company, Waterbury, Conn. Safety-pins. Nos. 85,277–81; Feb. 6; Gaz. vol. 175; p. 261.
Oakville Company, Waterbury, Conn. Toilet and safety pins. No. 85,676; Mar. 5; Gaz. vol. 176; p. 270.
Obear Drug Co., Winnsboro, S. C. Certain named spices. No. 89,493; Dec. 17; Gaz. vol. 185; p. 825.
Obermeyer & Liebmann, Brooklyn, N. Y. Ale and porter. No. 87,359; July 9; Gaz. vol. 180; p. 598.
Obur Company, The, New York, N. Y. Hair-remover. No. 86,236; Apr. 23; Gaz. vol. 177; p. 1040.
Ochiltree, William H., Pittsburgh, Pa. Electric lamps, motors, switchboards, &c. No. 88,197; Sept. 3; Gaz vol. 182; p. 244.
Oddy, William, Bradford, England. Certain piece goods. No. 87,099; June 25; Gaz. vol. 179; p. 1103.
Oddy, William, Bradford, England. Certain knitted, netted, and textile fabrics. No. 87,474; July 16; Gaz. vol. 180; p. 875.
Odell Hardware Co., Greensboro, N. C. Razors and tools. No. 87,913; Aug. 13; Gaz. vol. 181; p. 537.
Oehmig-Wiedlech, C. H., Zeitz, Germany. Sticky fly-paper. No. 86,083; Apr. 9; Gaz. vol. 177; p. 520.
Ogburn, Hill & Co., Winston Salem, N. C. Chewing-tobacco. No. 86,544; May 14; Gaz. vol. 178; p. 588.
Ogden, Merrill & Greer, St. Paul, Minn. Fruit-jar rings. No. 88,108; Aug. 27; Gaz. vol. 181; p. 1069.
Ogna & Co., Milan, Italy. Non-alcoholic beverages. No. 89,288; Dec. 3; Gaz. vol. 185; p. 245.
Ohio Confection Co., The, Cleveland, Ohio. Candy. No. 87,914; Aug. 13; Gaz. vol. 181; p. 537.
Ohio Garment Company, The, Springfield, Ohio. Shirts. No. 85,609; Feb. 27; Gaz. vol. 175; p. 1095.
Ohio Match Company, The, Wadsworth, Ohio. Safety-matches. No. 85,164; Jan. 30; Gaz. vol. 174; p. 1214.
Ohio Match Company, The, Wadsworth, Ohio. Matches. No. 87,915; Aug. 13; Gaz. vol. 181; p. 537.
Ohio Varnish Company, Cleveland, Ohio. Paints and painters' materials. No. 86,611; May 21; Gaz. vol. 178; p. 880.
Ointine Company, Norwich, N. Y. Remedy for certain named inflammations and ailments. No. 89,687; Dec. 31; Gaz. vol. 185; p. 1375.
Oklahoma Medicine Company, Fort Gibson, Okla. Medicine for blood diseases. No. 89,688; Dec. 31; Gaz. vol. 185; p. 1375.
Old Bushmills Distillery Co., Ltd., The, Bushmills and Belfast, Ireland. Whisky. No. 86,825; June 4; Gaz. vol. 179; p. 282.
Old Colony Cleanser Company, Hutchinson, Kans. Silver polish and cleanser. No. 85,166; Jan. 30; Gaz. vol. 174; p. 1214.
Old Dominion Distilling Co., The, Richmond, Va. Whisky. Nos. 88,348–9; Sept. 10; Gaz. vol. 182; p. 506.
Old Veteran Bitters Co., The, Chicago, Ill. Bitters. No. 85,610; Feb. 27; Gaz. vol. 175; p. 1095.
Old Woolen Mills, Mayfield, Ky. Coats, vests, and trousers. No. 85,282; Feb. 6; Gaz. vol. 175; p. 261.
Olive Stove Works, Rochester, Pa. Certain kinds of heating and cooking stoves. No. 88,585; Oct. 1; Gaz. vol. 183; p. 214.
Ollendorff & Clarkson, Ltd., Glasgow, Scotland. Certain construction material. No. 85,479; Feb. 20; Gaz. vol. 175; p. 839.
Olympia Brewing Co., Olympia, Wash. Beer. No. 87,001; June 18; Gaz. vol. 179; p. 847.
Oneida Community, Limited, Oneida, N. Y. Animal-traps. No. 85,371; Feb. 13; Gaz. vol. 175; p. 538.
Oneida Community, Limited, Oneida, N. Y. Steel traps. No. 86,545; May 14; Gaz. vol. 178; p. 588.
Oneida Leather Co., New York and Chadwicks, N. Y. Leather in the piece. No. 87,249; July 2; Gaz. vol. 180; p. 318.
Oneida Regal Textile Co., Philadelphia, Pa. Hosiery. No. 88,782; Oct. 22; Gaz. vol. 183; p. 1028.
Onola Company, New York, N. Y. Preparations for the treatment of certain named ailments. No. 89,289; Dec. 3; Gaz. vol. 185; p. 245.
Oppenheim, Oberndorf & Co., Baltimore, Md. Shirts. No. 87,916; Aug. 13; Gaz. vol. 181; p. 537.
Oppenheimer, Isaac, New York, N. Y. Remedy for alcoholism. No. 89,691; Dec. 31; Gaz. vol. 185; p. 1375.
Oppenheimer & Levy, S., New York, N. Y. Lace, veilings, hair-nets, and net piece goods. No. 85,372; Feb. 13; Gaz. vol. 175; p. 538.
Oppenheimer & Trebitsch Company, New York, N. Y. Magazine. No. 86,546; May 14; Gaz. vol. 178; p. 588.
Opperud, Joseph, Madison, S. D. Traps. No. 88,586; Oct. 1; Gaz. vol. 183; p. 214.
Oprechte Haarlemmer Olie Fabriek (Voorheen onder de firma G. de Koning Tilly.) (See Holland Medicine Company, assignor.)
Optische Anstalt C. P. Goerz Aktiengesellschaft, Friedenau, near Berlin, Germany. Certain named scientific appliances. No. 88,938; Oct. 29; Gaz. vol. 183; p. 1304.
Oregon Chair Co., Portland, Oreg. Chairs. No. 87,558; July 23; Gaz. vol. 180; p. 1134.
Oriental Oil Company, Dallas, Tex. Oils and greases. No. 89,137; Nov. 12; Gaz. vol. 184; p. 546.
Orion Knitting Mills, Kinston, N. C. Hosiery. No. 88,350; Sept. 10; Gaz. vol. 182; p. 506.
Orman Partee Saddlery Co., Nashville, Tenn. Harness, saddles, and collars. No. 86,152; Apr. 16; Gaz. vol. 177; p. 766.
Ortega, E. C., Los Angeles, Cal. Canned chillies, pimentos, and chilli sauce. No. 85,678; Mar. 5; Gaz. vol. 176; p. 270.
Ortega, Emile C., Los Angeles, Cal. Canned chillies, chilli tomatoes, and tomatoes. No. 85,677; Mar. 5; Gaz. vol. 176; p. 270.
Osbon and Osbon Chemical Co., Baltimore, Md. Cough mixture. No. 85,611; Feb. 27; Gaz. vol. 175; p. 1095.
Osborn, Daniel C., Honesdale, Pa. Antiseptic dressing. No. 85,167; Jan. 30; Gaz. vol. 174; p. 1214.
Osborne Garrett & Co., London, England. Razors. No. 88,019; Aug. 20; Gaz. vol. 181; p. 816.
Otis Company, Ware, Mass. Cotton piece goods. No. 87,559; July 23; Gaz. vol. 180; p. 1134.
Otto Goetze Co., New York, N. Y. Cotton piece goods. No. 85,807; Mar. 19; Gaz. vol. 176; p. 745.
Otto Kampfe Mfg. Co., Newark, N. J. Animal-traps. No. 84,779; Jan. 2; Gaz. vol. 174; p. 285.
Otto Kampfe Mfg. Co., Newark, N. J. Pot-lid handles. No. 85,587; Feb. 27; Gaz. vol. 175; p. 1094.
Outcault Advertising Co., Chicago, Ill. Fresh apples. Nos. 87,250–1; July 2; Gaz. vol. 180; p. 318.
Outcault Advertising Co., Chicago, Ill. Fresh apples. No. 89,692; Dec. 31; Gaz. vol. 185; p. 1375.
Owl Drug Company, San Francisco, Cal. Certain toilet preparations. No. 86,826; June 4; Gaz. vol. 179; p. 282.
Owl Drug Co., The, San Francisco, Cal. Certain medicines and pharmaceutical preparations. No. 87,475; July 16; Gaz. vol. 180; p. 875.
Owl Drug Company, The, San Francisco, Cal. Certain toilet preparations. No. 87,560; July 23; Gaz. vol. 180; p. 1134.
Oxymedeor Inhalation Company, New York, N. Y. Inhalation apparatus. No. 85,480; Feb. 20; Gaz. vol. 175; p. 839.
Oxymel Oil & Paint Coy. Ltd., Melbourne, Victoria, Australia. Anticorrosive paint. No. 86,612; May 21; Gaz. vol. 178; p. 880.
Oxypathor Co., The, Buffalo, N. Y. Toilet and shaving soap. No. 87,793; Aug. 6; Gaz. vol. 181; p. 261.
P. Hohenadel Jr. Canning Company, Rochelle, Ill. Canned kraut and boiled cabbage. No. 85,119; Jan. 30; Gaz. vol. 174; p. 1213.
P. Hohenadel Jr. Canning Company, Rochelle, Ill. Canned corn. Nos. 85,120–1; Jan. 30; Gaz. vol. 174; p. 1213.
P. Hohenadel Jr. Canning Company, Rochelle, Ill. Canned peas and corn. Nos. 85,122–3; Jan. 30; Gaz. vol. 174; p. 1213.
P. Hohenadel Jr. Canning Company, Rochelle, Ill. Canned corn. No. 85,124; Jan. 30; Gaz. vol. 174; p. 1213.
P. Moir Crane & Co., Ltd., Manchester, England. Oils for lubricating or burning. No. 86,697; May 28; Gaz. vol. 178; p. 1147.
P. Pastene & Co., Inc., New York, N. Y. Salad-oil. No. 89,054; Nov. 5; Gaz. vol. 184; p. 283.
P. E. Sharpless Company, Concordville and Philadelphia, Pa. Evaporated milk. No. 88,791; Oct. 22; Gaz. vol. 183; p. 1029.
P. & M. Co., The, Chicago, Ill. Rail-anchors, anticreepers, tie-plates, &c. No. 89,292; Dec. 3; Gaz. vol. 185; p. 245.
Pacific American Fisheries, Chicago, Ill. Canned salmon. Nos. 86,084–5; Apr. 9; Gaz. vol. 177; p. 521.
Pacific Bone Coal & Fertilizer Co., San Francisco, Cal. Fertilizer. No. 89,494; Dec. 17; Gaz. vol. 185; p. 825.
Pacific Cereal Association, San Francisco, Cal. Rolled oats, flaked and granulated wheat. No. 88,939; Oct. 29; Gaz. vol. 183; p. 1304.
Pacific Fisheries & Packing Company, Aberdeen, Wash. Canned salmon. No. 89,495; Dec. 17; Gaz. vol. 185; p. 825.
Pacific Novelty Company, New York, N. Y. Hair-pins. No. 87,794; Aug. 6; Gaz. vol. 181; p. 261.
Pacific Novelty Company, New York, N. Y. Picture-frames. No. 88,109; Aug. 27; Gaz. vol. 181; p. 1069.
Pacific Specialty Company, Portland, Oreg. Washing, cleaning, and scouring preparations. No. 86,442; May 7; Gaz. vol. 178; p. 315.
Packard, Chismore H., Brooklyn and New York, N. Y. Magazines. No. 88,941; Oct. 29; Gaz. vol. 183; p. 1304.
Packard Motor Car Company, Detroit, Mich. Casings for lamps. No. 86,153; Apr. 16; Gaz. vol. 177; p. 766.
Packard Motor Car Company, Detroit, Mich. Motor-vehicles. No. 89,198; Nov. 19; Gaz. vol. 184; p. 799.
Packard Motor Car Company, Detroit, Mich. Motor-vehicles. No. 89,211; Nov. 19; Gaz. vol. 184; p. 800.

Alphabetical list of registrants of trade-marks—Continued.

Packard, Sabra, South Tacoma, Wash. Remedy for certain ailments. No. 87,917; Aug. 13; Gaz. vol. 181; p. 537.
Padrick, Benjamin F., Portland, Oreg. Saw-case and tool-carrier. No. 88,942; Oct. 29; Gaz. vol. 183; p. 1304.
Pahl'sche Gummi- und Asbest-Gesellschaft mit beschränkter Haftung, Dusseldorf-Rath, Germany. Certain jointing material, clap valves, hose, belting, and packing. No. 84,872; Jan. 9; Gaz. vol. 174; p. 581.
Paine Lumber Company, Limited, Oshkosh, Wis. Doors. No. 89,693; Dec. 31; Gaz. vol. 185; p. 1375.
Pallas Candy Co., The, Butte, Mont. Candy. No. 85,168; Jan. 30; Gaz. vol. 174; p. 1214.
Palmenberg, Emil T., New York, N. Y. Display-figures. No. 86,324; Apr. 30; Gaz. vol. 177; p. 1292.
Palmer Brothers, Coscob, Conn. Gasolene-engines. No. 89,694; Dec. 31; Gaz. vol. 185; p. 1376.
Palmer Motion Picture Company, New York, N. Y. Moving-picture machines. No. 85,878; Mar. 26; Gaz. vol. 176; p. 1066.
Palmer, Nathalie T., Middletown, Conn. Fans for personal use. No. 84,998; Jan. 16; Gaz. vol. 174; p. 825.
Parsil Metal Company, The, Lansdale, Pa. Metal-alloy ingots. No. 85,482; Feb. 20; Gaz. vol. 175; p. 839.
Paraffine Paint Company, San Francisco, Cal. Manufactured board for interior finish. No. 86,325; Apr. 30; Gaz. vol. 177; p. 1292.
Paramount Knitting Company, Chicago, Ill. Hosiery. No. 84,914; Jan. 9; Gaz. vol. 174; p. 582.
Paramount Knitting Company, Chicago, Ill. Hosiery. Nos. 86,326–7; Apr. 30; Gaz. vol. 177; p. 1293.
Paramount Knitting Company, Chicago, Ill. Hosiery. No. 87,002; June 18; Gaz. vol. 179; p. 848.
Parejo, M. G., Seville, Spain. Olive-oil. No. 85,283; Feb. 6; Gaz. vol. 175; p. 261.
Paris Medicine Company, St. Louis, Mo. Remedy for certain diseases and for toilet uses. No. 87,361; July 9; Gaz. vol. 180; p. 598.
Park, Grant and Morris, Fargo, N. D. Canned fruits, vegetables, fish, soups, and spices. No. 87,100; June 25; Gaz. vol. 179; p. 1103.
Park & Tilford, New York, N. Y. Whisky. No. 85,481; Feb. 20; Gaz. vol. 175; p. 839.
Parke, Davis & Co., Detroit, Mich. Vaccine. No. 88,699; Oct. 15; Gaz. vol. 183; p. 778.
Parker Brothers, Portland, Me., and Salem, Mass. Card games. No. 85,373; Feb. 13; Gaz. vol. 175; p. 538.
Parker Brothers, Portland, Me., and Salem, Mass. Card games. No. 89,416; Dec. 10; Gaz. vol. 185; p. 522.
Parker Brothers, Incorporated, Salem, Mass. Card games. No. 88,700; Oct. 15; Gaz. vol. 183; p. 778.
Parker, John H., Boston, Mass. Conduits for electric wiring. No. 85,284; Feb. 6; Gaz. vol. 175; p. 261.
Parker, Stearns & Company, New York and Brooklyn, N. Y. Rubber bathing-caps. Nos. 86,443–4; May 7; Gaz. vol. 178; p. 315.
Parker, Stearns & Company, New York and Brooklyn, N. Y. Rubber bathing-caps. No. 88,783; Oct. 22; Gaz. vol. 183; p. 1028.
Parker & Whyte, Winnipeg, Manitoba, Canada. Sanitary chemical closets. No. 87,476; July 16; Gaz. vol. 180; p. 875.
Parnitzky, Paul, New York, N. Y. Remedy for certain diseases. No. 86,237; Apr. 23; Gaz. vol. 177; p. 1040.
Parrett, Richard J., Elkhart, Ind. Remedy for the kidneys and liver. No. 85,169; Jan. 30; Gaz. vol. 174; p. 1214.
Parsons, Mary H., Providence, R. I. Water-bottles. No. 88,638; Oct. 8; Gaz. vol. 183; p. 500.
Parsons, Theophilus, *et al.*, trustees. (See Amoskeag Manufacturing Company, assignor.)
Partos, Cornel, New York, N. Y. Remedy for skin diseases. No. 85,712; Mar. 5; Gaz. vol. 176; p. 271.
Partos, Cornel, New York, N. Y. Remedy for certain diseases and for pain in the back. No. 88,020; Aug. 20; Gaz. vol. 181; p. 816.
Pasman, Abram N., Jersey City, N. J. Flush-valves. No. 87,918; Aug. 13; Gaz. vol. 181; p. 537.
Patapsco Guano Co., Baltimore, Md. Fertilizers. Nos. 88,351–4; Sept. 10; Gaz. vol. 182; p. 506.
Patent Vulcanite Roofing Co., Chicago, Ill. Certain construction materials. No. 86,729; May 28; Gaz. vol. 178; p. 1148.
Paterson, Edward A., Port Arthur, Ontario, Canada. Binding composition for roads and pavements. No. 89,055; Nov. 5; Gaz. vol. 184; p. 283.
Patterson-Sargent Company, The, Cleveland, Ohio. Certain paints and painters' materials. No. 87,252; July 2; Gaz. vol. 180; p. 318.
Patton Paint Company, Milwaukee, Wis. Ready-mixed paint used as a protective coating. No. 86,827; June 4; Gaz. vol. 179; p. 282.
Patton Paint Company, Milwaukee, Wis. Ready-mixed paint. No. 88,021; Aug. 20; Gaz. vol. 181; p. 816.
Paul, Albert L., New Orleans, La. Insecticide. No. 85,170; Jan. 30; Gaz. vol. 174; p. 1214.
Paul Brothers, Inc., Philadelphia, Pa. Infants' and children's boots and shoes. No. 85,831; Mar. 19; Gaz. vol. 176; p. 746.
Paul F. Beich Company, Bloomington, Ill. Confections and chocolates. No. 84,811; Jan. 9; Gaz. vol. 174; p. 579.
Paul F. Beich Company, Bloomington, Ill. Chocolate candies. No. 86,374; May 7; Gaz. vol. 178; p. 313.
Paul, John C., Chicago, Ill. Metal-polish. No. 86,613; May 21; Gaz. vol. 178; p. 880.
Paul Revere Silver Company, Boston, Mass. Silver-plated flat and hollow ware. No. 85,682; Mar. 5; Gaz. vol. 176; p. 270.
Paul Rieger & Co., San Francisco, Cal. Perfumes, toilet water, face-cream, &c. No. 86,455; May 7; Gaz. vol. 178; p. 316.
Peaslee Gaulbert Company, Louisville, Ky. Certain paints and painters' materials. No. 87,620; July 30; Gaz. vol. 180; p. 1388.
Pedic Society of the State of New York, The, New York, N. Y. Monthly periodical. No. 89,496; Dec. 17; Gaz. vol. 185; p. 825.
Peerless Cork & Seal Co., New York, N. Y. Bottle-caps. No. 87,101; June 25; Gaz. vol. 179; p. 1103.
Peerless Overall Co., Huntington, W. Va. Trousers, coats, overalls, and outer shirts. No. 85,990; Apr. 2; Gaz. vol. 177; p. 236.
Peerless Rubber Manufacturing Company, New Durham, N. J., and New York, N. Y. Packing. No. 86,154; Apr. 16; Gaz. vol. 177; p. 766.
Peerless Rubber Manufacturing Company, New York, N. Y. Rubber or rubber and fabric belting. No. 86,548; May 14; Gaz. vol. 178; p. 588.
Peerless Wall Paper Manufacturing Company, Hoboken, N. J. Wall-papers. No. 86,328; Apr. 30; Gaz. vol. 177; p. 1293.
Peg Golf Company, New York, N. Y. Toy golf games. No. 88,518; Sept. 24; Gaz. vol. 182; p. 967.
Pellucidine Company, Bellevue, Pa. Oils and greases. No. 87,654; July 30; Gaz. vol. 180; p. 1389.
Pelton & Pelton, Chicago, Ill. Bathing-suits. No. 88,943; Oct. 29; Gaz. vol. 183; p. 1304.
Pemberton Company, Lawrence, Mass. Napped flannels in the piece. No. 88,784; Oct. 22; Gaz. vol. 183; p. 1028.
Pen-Carbon Manifold Co., New York, N. Y. Manifold carbon paper and books. No. 85,171; Jan. 30; Gaz. vol. 174; p. 1214.
Pencarbon Co. Ltd., The, Leicester, England. Carbon-papers, pen copying-paper, and type-writer ribbons. No. 87,003; June 18; Gaz. vol. 179; p. 848.
Peninsular Chemical Co., Detroit, Mich. Soaps. No. 88,110; Aug. 27; Gaz. vol. 181; p. 1069.
Peninsular Chemical Co., Detroit, Mich. Perfumery, toilet water, and face-powders. No. 88,519; Sept. 24; Gaz. vol. 182; p. 967.
Penn Bros. Mfg. Co., Danville, Va. Suspenders. No. 84,873; Jan. 9; Gaz. vol. 174; p. 581.
Pennsylvania Flexible Metallic Tubing Company, Philadelphia, Pa. Metal hose. No. 87,919; Aug. 13; Gaz. vol. 181; p. 537.
Pennsylvania Lubricating Company, Pittsburgh, Pa. Lubricating-grease. No. 87,796; Aug. 6; Gaz. vol. 181; p. 261.
Pennsylvania Rubber Company, Jeannette, Pa. Rubber vehicle-tires. No. 85,483; Feb. 20; Gaz. vol. 175; p. 839.
Pennsylvania Soap Company, The, Lancaster, Pa. Soap. No. 86,549; May 14; Gaz. vol. 178; p. 588.
Pennsylvania Sugar Company, Philadelphia, Pa. Sugar. No. 89,138; Nov. 12; Gaz. vol. 184; p. 546.
Pensacola Tar & Turpentine Co., Gull Point, Fla. Antiseptic, disinfectant, or deodorant pine-oil. No. 89,140; Nov. 12; Gaz. vol. 184; p. 546.
Pensacola Tar & Turpentine Company, Gull Point, Fla. Paint-oils, resin-spirits, turpentine, and paints. No. 89,139; Nov. 12; Gaz. vol. 184; p. 546.
Pentz, William E., St. Joseph, Mo. Toilet powders. No. 87,477; July 16; Gaz. vol. 180; p. 875.
People's Outfitting Company, Detroit, Mich. Pianos and organs. No. 87,004; June 18; Gaz. vol. 179; p. 848.
Peoria Confectionery Company, Peoria, Ill. Candy-coated or sweetened cereals. No. 88,944; Oct. 29; Gaz. vol. 183; p. 1304.
Peoria Electric Fixture Co., Peoria, Ill. Electrical apparatus and supplies. No. 87,102; June 25; Gaz. vol. 179; p. 1103.
Pepsi-Cola Co., The, Newbern, N. C. Certain non-alcoholic beverage. No. 88,356; Sept. 10; Gaz. vol. 182; p. 506.
Perfection Biscuit Company, Fort Wayne, Ind. Crackers and biscuits. No. 88,945; Oct. 29; Gaz. vol. 183; p. 1304.
Perfection Overgaiter Co., Burlington, Vt. Overgaiters and leggings. No. 87,920; Aug. 13; Gaz. vol. 181; p. 537.
Perry, Elliott, Philadelphia, Pa. Paint and varnish reducers or thinners. No. 89,290; Dec. 3; Gaz. vol. 185; p. 245.
Perseverance Worsted Company, Woonsocket, R. I. Worsted cloths. No. 85,484; Feb. 20; Gaz. vol. 175; p. 839.
Perseverance Worsted Company, Woonsocket, R. I. Worsted cloths. No. 85,679; Mar. 5; Gaz. vol. 176; p. 270.

Alphabetical list of registrants of trade-marks—Continued.

Peters-Pitkin Company, The, Benton Harbor, Mich. Paints, varnish stain, enamel, and colors in oil. No. 87,362; July 9; Gaz. vol. 180; p. 598.
Petillo, Diomede, New York, N. Y. Remedy for diseases of the blood. No. 84,793; Jan. 2; Gaz. vol. 174; p. 285.
Petroleum Products Co., The, New York, N. Y. Turpentine and linseed-oil substitutes. No. 85,991; Apr. 2; Gaz. vol. 177; p. 236.
Petteway & Powell, Freeman, Fla. Remedy for syphilis. No. 84,794; Jan. 2; Gaz. vol. 174; p. 285.
Petty, William R., Fort Worth, Tex. Asphalt, macadam, concrete, and bituminous paving. No. 86,934; June 11; Gaz. vol. 179; p. 569.
Petzold & Mäser, Julius Ambronn, Nachf, Chemnitz, Germany. Button-fasteners for dresses and gloves. No. 86,614; May 21; Gaz. vol. 178; p. 880.
Pfaffmann Egg Noodle Co., The, Cleveland, Ohio. Noodles for soups. No. 86,935; June 11; Gaz. vol. 179; p. 569.
Pfannmueller Engineering Co., Chicago, Ill. Machinery-belting. No. 87,921; Aug. 13; Gaz. vol. 181; p. 537.
Pfeffermann, Christopher, San Francisco, Cal. Bread. No. 89,696; Dec. 31; Gaz. vol. 185; p. 1376.
Pfeifer & Co., S., New Orleans, La. Butter. No. 84,999; Jan. 16; Gaz. vol. 174; p. 825.
Pfrenger, Jacob, New York, N. Y. Bathing-suits. Nos. 86,155–7; Apr. 16; Gaz. vol. 177; p. 766.
Pfrenger, Jacob, New York, N. Y. Bathing-suits. No. 86,730; May 28; Gaz. vol. 178; p. 1148.
Philadelphia Lawn Mower Co., The, Philadelphia, Pa. Lawn-mowers. Nos. 89,056–8; Nov. 5; Gaz. vol. 184; p. 283.
Philadelphia Lawn Mower Co., The, Philadelphia, Pa. Lawn mowers, sweepers, trimmers, and grass collectors. No. 89,059; Nov. 5; Gaz. vol. 184; p. 283.
Philadelphia Lawn Mower Co., The, Philadelphia, Pa. Lawn-mowers. No. 89,497; Dec. 17; Gaz. vol. 185; p. 825.
Philadelphia Vacuum Specialty Co., The, Philadelphia, Pa. Vacuum bottles and jars. No. 89,199; Nov. 19; Gaz. vol. 184; p. 799.
Philip Ruxton, Inc., New York, N. Y. Printing-inks. No. 88,704; Oct. 15; Gaz. vol. 183; p. 778.
Philippe, Louis, New York, N. Y. Face creams and powders and rouge. No. 87,479; July 16; Gaz. vol. 180; p. 875.
Phillips Lead & Supply Co., Providence, R. I. Certain named hardware and plumbing and steam-fitting supplies. No. 89,498; Dec. 17; Gaz. vol. 185; p. 825.
Phillips & Sons, M., New York, N. Y. Boys' and youths' clothing. No. 87,363; July 9; Gaz. vol. 180; p. 598.
Phillips & Sons, M., New York, N. Y. Certain clothing. No. 87,364; July 9; Gaz. vol. 180; p. 598.
Phillips & Sons, M., New York, N. Y. Certain articles of clothing. No. 88,111; Aug. 27; Gaz. vol. 181; p. 1069.
Phoenix-American Pipe Works, Washington, Mo. Tobacco-pipes. No. 86,445; May 7; Gaz. vol. 178; p. 315.
Pi-Ki Pile Remedy Co. (See Hammond & Gray, assignors.)
Picard & Brothers, Simon, Juarez and Chihuahua, Mexico. Face-cream. No. 87,802; Aug. 6; Gaz. vol. 181; p. 262.
Picturegraph Company, New York, N. Y. Moving-picture machines. No. 86,158; Apr. 16; Gaz. vol. 177; p. 766.
Piedmont Mfg. Co., Piedmont, S. C. Sheetings and drillings. No. 87,103; June 25; Gaz. vol. 179; p. 1103.
Pierce Bros., Chicago, Ill. Wrapping-paper. No. 89,291; Dec. 3; Gaz. vol. 185; p. 245.
Pillsbury Flour Mills Company, Minneapolis, Minn. Wheat-flour. No. 88,421; Sept. 17; Gaz. vol. 182; p. 717.
Pinay, Jeune, Les Fils, St.- Symphorien-sur-Coise, France. Hats. No. 85,261; Feb. 6; Gaz. vol. 175; p. 260.
Pincoffs, Peter A., New York, N. Y. Fresh and dried fruits. No. 89,499; Dec. 17; Gaz. vol. 185; p. 825.
Pinkett Brothers Commission Company, The, Denver, Colo. Eggs. No. 89,060; Nov. 5; Gaz. vol. 184; p. 283.
Pinko-Laxin Medicine Co., St. Louis, Mo. Remedy for constipation. No. 86,446; May 7; Gaz. vol. 178; p. 315.
Pioneer Cereal Company, Akron, Ohio. Certain grain foods. No. 84,874; Jan. 9; Gaz. vol. 174; p. 581.
Pioneer Porcelain Wash Tray Co., Perth Amboy, N. J. Wash and bath trays and bath-tubs. No. 88,587; Oct. 1; Gaz. vol. 183; p. 214.
Pioneer Tractor Manufacturing Company, Winona, Minn. Traction-engines. No. 85,285; Feb. 6; Gaz. vol. 175; p. 261.
Piplick, Peter, Dinuba, Cal. Liniment. No. 89,141; Nov. 12; Gaz. vol. 184; p. 546.
Pittaro, Vito A., New York, N. Y. Certain medicinal preparations. No. 85,879; Mar. 26; Gaz. vol. 176; p. 1066.
Pittsburg-Buffalo Company, Pittsburgh, Pa. Coal. Nos. 85,172–3; Jan. 30; Gaz. vol. 174; p. 1214.
Pittsburg Water Heater Company, Pittsburgh, Pa. Water-heaters. No. 89,576; Dec. 24; Gaz. vol. 185; p. 1050.
Pittsburgh Dry Goods Company, The, Pittsburgh, Pa. Hosiery. No. 85,025; Jan. 16; Gaz. vol. 174; p. 826.
Pittsburgh Dry Goods Company, Pittsburgh, Pa. Hosiery. No. 85,485; Feb. 20; Gaz. vol. 175; p. 839.
Pittsburgh Manufacturers Sales Co., Pittsburgh, Pa. Polishing-cloths. No. 86,447; May 7; Gaz. vol. 178; p. 315.
Piver & Cie., L. T., Paris, France. Certain toilet articles. No. 85,612; Feb. 27; Gaz. vol. 175; p. 1095.
Piver & Cie., L. T., Paris, France. Perfumery, toilet and sachet powders. No. 85,713; Mar. 5; Gaz. vol. 176; p. 271.
Place, Henry D., Newark, Ohio. Bread. No. 88,785; Oct. 22; Gaz. vol. 183; p. 1028.
Plants Plantoids Limited, London, England. Fertilizers. No. 87,562; July 23; Gaz. vol. 180; p. 1134.
Plants Plantoids Limited, London, England. Fertilizers. No. 87,655; July 30; Gaz. vol. 180; p. 1389.
Plumb, Chas. L., New York, N. Y. Wheat-flour. Nos. 88,199–200; Sept. 3; Gaz. vol. 182; p. 244.
Plunkett-Jarrell Grocer Co., Little Rock, Ark. Certain foods. No. 86,761; May 28; Gaz. vol. 178; p. 1149.
Plymouth Creamery Company, Boston, Mass. Milk and cream cans. No. 85,374; Feb. 13; Gaz. vol. 175; p. 538.
Polack Tyre Company, New York, N. Y. Vehicle-tires. No. 87,797; Aug. 6; Gaz. vol. 181; p. 262.
Poldihütte Tiegelguszstahlfabrik, Vienna and Kladno, Austria-Hungary. Certain metal castings and forgings. No. 85,613; Feb. 27; Gaz. vol. 175; p. 1095.
Pommer, H. & J. J., Albany, N. Y. Trading-stamps. No. 88,786; Oct. 22; Gaz. vol. 183; p. 1029.
Pompeian Co., Incorporated, The, Washington, D. C. Olive-oil. No. 85,174; Jan. 30; Gaz. vol. 174; p. 1214.
Pond, Edmund M., Rutland, Vt. Surgical bandages. No. 89,200; Nov. 19; Gaz. vol. 184; p. 799.
Pond's Bitters Co., Chicago, Ill. Stomach-bitters. No. 88,940; Oct. 29; Gaz. vol. 183; p. 1304.
Pope Manufacturing Company, The, Hartford, Conn. Bicycles. No. 86,159; Apr. 16; Gaz. vol. 177; p. 766.
Porcelain Enameling Ass'n of America, Sheboygan, Wis. Household utensils and certain plumbing supplies. No. 85,486; Feb. 20; Gaz. vol. 175; p. 839.
Porceliron Company, The, Beaver Falls, Pa. Stoves and ranges. No. 87,798; Aug. 6; Gaz. vol. 181; p. 262.
Porter, Mary E., Lewistown, Ill. Bee-escapes. No. 85,614; Feb. 27; Gaz. vol. 175; p. 1095.
Porter, Ross, Neodesha, Kans. Remedy for certain ailments. No. 85,375; Feb. 13; Gaz. vol. 175; p. 539.
Portland Flouring Mills Company, The, Portland, Oreg. Wheat-flour. Nos. 88,357–9; Sept. 10; Gaz. vol. 182; p. 506.
Portland Flouring Mills Company, Portland, Oreg. Wheat-flour. No. 88,520; Sept. 24; Gaz. vol. 182; p. 967.
Portland Flouring Mills Company, The, Portland, Oreg. Wheat-flour. No. 88,948; Oct. 29; Gaz. vol. 183; p. 1304.
Postum Cereal Co. Limited, Battle Creek, Mich. Cereal breakfast food. No. 89,500; Dec. 17; Gaz. vol. 185; p. 825.
Potosote Company, The, Canton, Ohio. Mineral-water salt. No. 85,175; Jan. 30; Gaz. vol. 174; p. 1214.
Potter, Werden B., Jamaica, N. Y. Medicinal preparations. No. 85,176; Jan. 30; Gaz. vol. 174; p. 1214.
Potts, Emerson J., San Francisco, Cal. Antiphlogistic preparation. No. 86,238; Apr. 23; Gaz. vol. 177; p. 1040.
Potts Powder Company, The, Reynolds, Pa., and New York, N. Y. Dynamite. No. 88,201; Sept. 3; Gaz. vol. 182; p. 244.
Powell, Katherine, St. Louis, Mo. Bottled ointment. No. 89,142; Nov. 12; Gaz. vol. 184; p. 547.
Powell Knitting Co., The, Philadelphia, Pa. Hosiery. No. 88,023; Aug. 20; Gaz. vol. 181; p. 816.
Powell's, New York, N. Y. Candy, chocolate, cocoa, fruit, and nuts. No. 87,923; Aug. 13; Gaz. vol. 181; p. 537.
Powers, John O., Nutley, N. J., and New York, N. Y. Cocoa. No. 85,615; Feb. 27; Gaz. vol. 175; p. 1095.
Pozzi, Aloysius, Trenton, N. J. Cane, parasol, and umbrella tip protector. No. 86,329; Apr. 30; Gaz. vol. 177; p. 1293.
Prairie Side Celery Co., Tecumseh, Mich. Celery. No. 85,680; Mar. 5; Gaz. vol. 176; p. 270.
Pratt & Lambert, Inc., Long Island City and Buffalo, N. Y. Enamels, varnishes, stains, and fillers. No. 85,177; Jan. 30; Gaz. vol. 174; 1214.
Pratt, Wm. E., Chicago, Ill. Hog and pig rings and ringers. No. 86,616; May 21; Gaz. vol. 178; p. 880.
Precerutti, Gioachino C., Turin, Italy. Certain optical supplies. No. 85,487; Feb. 20; Gaz. vol. 175; p. 839.
Precision Machine Company, The. (See Multi-Speed Shutter Company, assignor.)
Premier Vacuum Cleaner Co., The, Cleveland, Ohio. Vacuum-cleaners. No. 85,766; Mar. 12; Gaz. vol. 176; p. 522.
Prentiss Vise Company, New York, N. Y. Vises. No. 85,993; Apr. 2; Gaz. vol. 177; p. 236.
Prescott & Co., Boston, Mass. Rubber hose. Nos. 88,112–13; Aug. 27; Gaz. vol. 181; p. 1069.
Prescott, Jesse, Webster, Mass. Refuse-burners. No. 87,924; Aug. 13; Gaz. vol. 181; p. 537.
Prest-O-Lite Company, The, Indianapolis, Ind. Starting device for explosive-engines. No. 87,005; June 18; Gaz. vol. 179; p. 848.
Presto-Couch Co., St. Louis, Mo. Couches. No. 88,946; Oct. 29; Gaz. vol. 183; p. 1304.

Alphabetical list of registrants of trade-marks—Continued.

Price, Joseph, Hartford, Conn. Remedies for catarrh, asthma, hay-fever, &c. No. 85,880; Mar. 26; Gaz. vol. 176; p. 1066.
Printograph Sales Company, La Crosse, Wis. Printing-machines. No. 89,698; Dec. 31; Gaz. vol. 185; p. 1376.
Printz, Carl J., Toronto, Ontario, Canada. Cigars. No. 88,588; Oct. 1; Gaz. vol. 183; p. 214.
Priscilla Publishing Co., The, Boston, Mass. Periodicals. No. 88,947; Oct. 29; Gaz. vol. 183; p. 1304.
Progress Auto Tire Trunk Mfg. Co., Philadelphia, Pa. Trunks, suit-cases, and portfolios. No. 85,000; Jan. 16; Gaz. vol. 174; p. 825.
Progress Company, The, assignor to Uno Manufacturing Company, Chicago, Ill. Wood cleanser and polisher. No. 86,828; June 4; Gaz. vol. 179; p. 282.
Progress Tobacco Works, New Albany, Ind. Smoking-tobacco. No. 87,480; July 16; Gaz. vol. 180; p. 875.
Progressive Manufacturing Company, New York, N. Y. Cleaning and polishing cloths. No. 89,577; Dec. 24; Gaz. vol. 185; p. 1050.
Progressive Mfg. Co., The, Torrington, Conn. Spark-plugs. No. 87,253; July 2; Gaz. vol. 180; p. 318.
Proser Bros., New York, N. Y. Coats, vests, and trousers. No. 87,799; Aug. 6; Gaz. vol. 181; p. 262.
Protze, Charles R., West Brookville, N. Y. Dressed furs. No. 85,376; Feb. 13; Gaz. vol. 175; p. 539.
Provident Company, The, Providence, R. I. Salad-relish. No. 88,949; Oct. 29; Gaz. vol. 183; p. 1304.
Public Service Cup Company, New York, N. Y. Paper cups. No. 87,365; July 9; Gaz. vol. 180; p. 598.
Pugh, Burton H., Topeka, Kans. Fountain-mops. No. 85,636; Feb. 27; Gaz. vol. 175; p. 1095.
Purr Puss Co., The, South Framingham, Mass. Cat-tonic. No. 84,795; Jan. 2; Gaz. vol. 174; p. 285.
Putnam, Edwin C., Millbury, Mass. Flavoring for beverages. No. 88,422; Sept. 17; Gaz. vol. 182; p. 717.
Putnam, John P., Boston, Mass. Certain hardware and plumbing goods. No. 87,803; Aug. 6; Gaz. vol. 181; p. 262.
Pyle-National Electric Headlight Company, Chicago, Ill. Electric headlights and devices therefor. No. 89,578; Dec. 24; Gaz. vol. 185; p. 1050.
Pyle, Walter L., Philadelphia, Pa. Printed advertising devices. No. 86,550; May 14; Gaz. vol. 178; p. 588.
Pyrene Manufacturing Co., New York, N. Y. Syringes for use with fire-extinguishing compounds. No. 85,918; Mar. 26; Gaz. vol. 176; p. 1067.
Quackenbush, Walter, New York, N. Y. Monthly magazine. No. 84,875; Jan. 9; Gaz. vol. 174; 581.
Quaker City Chocolate and Confectionery Company, Philadelphia, Pa. Candy. No. 87,656; July 30; Gaz. vol. 180; p. 1389.
Quaker Lace Company, Philadelphia, Pa. Lace piece goods. No. 87,800; Aug. 6; Gaz. vol. 181; p. 262.
Quaker Lace Company, Philadelphia, Pa. Lace curtains. No. 87,801; Aug. 6; Gaz. vol. 181; p. 262.
Queen Mfg. Co., The, Cincinnati, Ohio. Ladies' outer skirts. No. 85,001; Jan. 16; Gaz. vol. 174; p. 825.
Quentell, William P., New York, N. Y. Antiseptic shaving-cream. No. 88,950; Oct. 29; Gaz. vol. 183; p. 1304.
Quere, Theodore, Cleveland, Ohio. Artificial mineral water. No. 85,002; Jan. 16; Gaz. vol. 174; p. 825.
Quere, Theodore E., Cleveland, Ohio. Certain medicinal remedies. No. 85,881; Mar. 26; Gaz. vol. 176; p. 1066.
Quinn, John F., Cohoes, N. Y. Children's knitted underwaists. No. 85,489; Feb. 20; Gaz. vol. 175; p. 839.
Quixtart Chemical Co., Providence, R. I. Volatile distillates of petroleum. No. 88,114; Aug. 27; Gaz. vol. 181; p. 1069.
R. Stock & Co., Spiralbohrer-Werkzeug und Maschinenfabrik Aktiengesellschaft, Marienfelde, near Berlin, Germany. Drills, reamers, and milling-cutters. No. 86,959; June 11; Gaz. vol. 179; p. 570.
R. Wedekind & Co. G. m. b. H. Uerdingen-on-the-Rhine, Germany. Dyes. No. 86,848; June 4; Gaz. vol. 179; p. 283.
R B Manufacturing Company, New York, N. Y. Cloaks, outer suits, skirts, and dresses. No. 88,787; Oct. 22; Gaz. vol. 183; p. 1029.
R. C. H. Corporation, Detroit, Mich. Automobiles. No. 87,481; July 16; Gaz. vol. 180; p. 875.
R. F. & J. Alexander & Co. Ltd., Neilston, Scotland. Sewing cotton thread in balls. No. 85,051; Jan. 30; Gaz. vol. 174; p. 1211.
R. J. Reynolds Tobacco Company, Winston Salem, N. C. Tobacco, cigars, cigarettes, and snuff. No. 86,452; May 7; Gaz. vol. 178; p. 316.
R. M. Hollingshead Co., Camden, N. J. Soap. No. 89,465; Dec. 17; Gaz. vol. 185; p. 824.
R. M. Kellogg Company, Three Rivers, Mich. Strawberry-plants. No. 86,713; May 28; Gaz. vol. 178; p. 1148.
R. S. Hudson, Limited, Liverpool, England. Extract of soap. No. 85,128; Jan. 30; Gaz. vol. 174; p. 1213.
Rahmann, George, New York, N. Y. Belt-dressing. No. 86,829; June 4; Gaz. vol. 179; p. 282.
Railway Chemical Mfg. Co., The, Meadville, Pa. Wood and metal cleaning and polishing compound. No. 88,115; Aug. 27; Gaz. vol. 181; p. 1069.
Raimes & Co., New York, N. Y. Polish. No. 87,804; Aug. 6; Gaz. vol. 181; p. 262.
Rainforth, Selden I., New York, N. Y. Ointment. No. 86,830; June 4; Gaz. vol. 179; p. 282.
Raleigh, Charles, Paris, France. Certain named kinematographic apparatus. No. 89,061; Nov. 5; Gaz. vol. 184; p. 283.
Ramer, Elwood T., Philadelphia, Pa. Bread. No. 87,482; July 16; Gaz. vol. 180; p. 875.
Ramsay, William, Melbourne, Australia. Polishing preparation for boots and leather goods. No. 85,490; Feb. 20; Gaz. vol. 175; p. 839.
Ramsey, Alton Manufacturing Company, Portland, Mich. Chairs, tables, davenports, and foot-stools. No. 89,417; Dec. 10; Gaz. vol. 185; p. 522.
Randal, Lillie, New York, N. Y. Hair-tonic. No. 85,491; Feb. 20; Gaz. vol. 175; p. 839.
Randall-Faichney Co., The, Boston, Mass. Horns, whistles, and sound-producing devices for automobiles. No. 85,919; Mar. 26; Gaz. vol. 176; p. 1067.
Randall-Faichney Company, Boston, Mass. Oil-grease guns. No. 86,937; June 11; Gaz. vol. 179; p. 569.
Randall-Faichney Company, The, Boston, Mass. Musical instruments and supplies. No. 87,255; July 2; Gaz. vol. 180; p. 318.
Ransing, Edward A., Lancaster, Pa. Cider. No. 88,202; Sept. 3; Gaz. vol. 182; p. 244.
Rath, Emil, Frankfort-on-the-Main, Germany. Remedy for diabetes. No. 86,831; June 4; Gaz. vol. 179; p. 282.
Rath, Emil, Frankfort-on-the-Main, Germany. Gutta-percha and rubber nipples. No. 87,805; Aug. 6; Gaz. vol. 181; p. 262.
Rath Packing Company, The, Waterloo, Iowa. Bacon and hams. No. 89,699; Dec. 31; Gaz. vol. 185; p. 1376.
Rathbone Fireplace Manufacturing Co., Grand Rapids, Mich. Grates and fire-baskets. No. 87,806; Aug. 6; Gaz. vol. 181; p. 262.
Rauh, Firm of David, Nuremberg, Germany, and New York, N. Y. Certain raw or partly-prepared materials. No. 86,669; May 21; Gaz. vol. 178; p. 881.
Rauskolb, Frid W., Boston, Mass. Books and packages of certain named metal or metallic leaf. No. 88,951; Oct. 29; Gaz. vol. 183; p. 1304.
Raventós, Manuel, San Sadurni de Noya, Spain. Effervescent wines. No. 84,751; Jan. 2; Gaz. vol. 174; p. 284.
Rayo Incubator Company, Blair, Nebr. Incubators and brooders. No. 85,492; Feb. 20; Gaz. vol. 175; p. 839.
Rea, Alva L., Zanesville, Ohio. Decarbonizing compounds. No. 85,616; Feb. 27; Gaz. vol. 175; p. 1095.
Reaves, Edward, Banks, Ark. Preparation for tempering steel. No. 86,086; Apr. 9; Gaz. vol. 177; p. 521.
Reckitt & Sons Ltd., Hull, England. Laundry blue and starch. No. 85,714; Mar. 5; Gaz. vol. 176; p. 271.
Reckitt & Sons, Ltd., Hull, England. Laundry bluing. No. 86,449; May 7; Gaz. vol. 178; p. 315.
Reckitt & Sons Ld., Hull, England. Laundry bluing. No. 87,807; Aug. 6; Gaz. vol. 181; p. 262.
Red Jacket Manufacturing Company, Davenport, Iowa. Well-pumps. No. 87,925; Aug. 13; Gaz. vol. 181; p. 537.
Red Star Oil Company, Philadelphia, Pa. Oil for mixing paints. No. 85,288; Feb. 6; Gaz. vol. 175; p. 261.
Red Star Oil Company, Philadelphia, Pa. Linseed-oil substitutes. No. 86,330; Apr. 30; Gaz. vol. 177; p. 1293.
Redelheim, Firm of Jacob, New York, N. Y. Cane-sugar. No. 88,203; Sept. 3; Gaz. vol. 182; p. 244.
Redfield, Lydia A., Auburndale, Fla. Oranges. No. 88,360; Sept. 10; Gaz. vol. 182; p. 507.
Redfield, Lydia A., Auburndale, Fla. Grape-fruits and oranges. No. 88,361; Sept. 10; Gaz. vol. 182; p. 507.
Redio Company, Limited, The, London, England. Cleaning and polishing cloths. No. 85,178; Jan. 30; Gaz. vol. 174; p. 1214.
Redlands Chemical Company, Redlands, Cal. Anesthetics. No. 88,024; Aug. 20; Gaz. vol. 181; p. 816.
Rednall-Morin Co., San Francisco, Cal. Preservative paints. No. 89,293; Dec. 3; Gaz. vol. 185; p. 245.
Reece, Llewellyn, New York, N. Y. Shades for illuminating-fixtures and light-filters used therewith. No. 88,521; Sept. 24; Gaz. vol. 182; p. 967.
Reed & Carnrick, Jersey City, N. J. Remedy for certain diseases. No. 87,808; Aug. 6; Gaz. vol. 181; p. 262.
Reedy Brothers Gum Company, Chicago, Ill. Chewing-gum. No. 85,493; Feb. 20; Gaz. vol. 175; p. 839.
Reedy, Robert E., Chicago, Ill. Chewing-gum. No. 87,926; Aug. 13; Gaz. vol. 181; p. 537.
Regal Gasoline Engine Company, Coldwater, Mich. Gasolene internal-combustion engines. No. 89,579; Dec. 24; Gaz. vol. 185; p. 1050.
Regal Hat Company, The, Chicago, Ill. Hats. No. 89,418; Dec. 10; Gaz. vol. 185; p. 522.
Regal Piano & Player Co., The, New York, N. Y. Pianos. No. 85,377; Feb. 13; Gaz. vol. 175; p. 539.
Regal Shoe Company, Whitman and Boston, Mass. Leather boots and shoes. No. 85,378; Feb. 13; Gaz. vol. 175; p. 539.
Regal Shoe Company, Portland, Me., and Boston, Mass. Arch-supports for the foot. No. 85,494; Feb. 20; Gaz. vol. 175; p. 839.
Regal Shoe Company Inc., assignor to Regal Shoe Company, Boston, Mass. Leather boots and shoes. No. 85,003; Jan. 16; Gaz. vol. 174; p. 825.

Alphabetical list of registrants of trade-marks—Continued.

Regents Publishing and Mercantile Corp., St. Louis, Mo. Coffees and teas. No. 87,366; July 9; Gaz. vol. 180; p. 598.
Regina Company, The, Rahway, N. J. Printing-presses. No. 87,006; June 18; Gaz. vol. 179; p. 848.
Reiss Bros. & Co., Chicago, Ill. Tobacco-pipes. Nos. 85,004–5; Jan. 16; Gaz. vol. 174; p. 825.
Reliance Gauge Column Co., The, Cleveland, Ohio. Gages. No. 88,025; Aug. 20; Gaz. vol. 181; p. 816.
Reliance Paint Co., The, Brooklyn, N. Y. Non-corrosive paints. No. 89,700; Dec. 31; Gaz. vol. 185; p. 1376.
Remington Typewriter Company, Ilion and New York, N. Y. Type-writing machines. No. 88,701; Oct. 15; Gaz. vol. 183; p. 778.
Rennous, Kleinle & Co., Baltimore, Md. Brooms, brushes, and dusters. No. 87,367; July 9; Gaz. vol. 180; p. 599.
Replogle, Daniel B., Berkeley, Cal. Vacuum-cleaners and parts thereof. No. 89,580; Dec. 24; Gaz. vol. 185; p. 1050.
Republic Bag & Paper Co., New York, N. Y. Wrapping-paper. No. 86,938; June 11; Gaz. vol. 179; p. 569.
Republic Metalware Company, The, Buffalo, N. Y. Percolators. No. 86,087; Apr. 9; Gaz. vol. 177; p. 521.
Republic Metalware Company, Buffalo, N. Y. Bread-boxes. No. 86,450; May 7; Gaz. vol. 178; p. 316.
Republic of France, Paris, France. Cigarettes. No. 85,994; Apr. 2; Gaz. vol. 177; p. 236.
Residori, Albino, Carbon Hill, Ill. Hair-tonic. No. 86,451; May 7; Gaz. vol. 178; p. 316.
Retailers' Coöperative Association, Camden, N. J. Soaps. No. 89,143; Nov. 12; Gaz. vol. 184; p. 547.
Revere Rubber Company, Chelsea, Mass. Rubber heels and soles of boots and shoes. No. 85,289; Feb. 6; Gaz. vol. 175; p. 261.
Revere Rubber Company, Chelsea, Mass. Belting, hose, machinery packing, and tires. No. 86,551; May 14; Gaz. vol. 178; p. 588.
Revere Rubber Company, Providence, R. I., and Chelsea, Mass. Rubber hose. No. 89,701; Dec. 31; Gaz. vol. 185; p. 1376.
Revêtements Josz Société Anonyme, Koekelberg-Brussels, Belgium. Metallic coverings for walls and ceilings. No. 84,752; Jan. 2; Gaz. vol. 174; p. 284.
Rex Ignition Manufacturing Co., New York, N. Y. Spark-plugs. No. 87,809; Aug. 6; Gaz. vol. 181; p. 262.
Reynolds, George A., Syracuse, N. Y. Foot-powders. No. 86,239; Apr. 23; Gaz. vol. 177; p. 1040.
Reynolds & Reynolds Company, The, Dayton, Ohio. Paper tablets and note-books. No. 87,007; June 18; Gaz. vol. 179; p. 848.
Reynolds & Reynolds Company, The, Dayton, Ohio. Paper tablets and note-books. No. 88,362; Sept. 10; Gaz. vol. 182; p. 507.
Rheinische Glashütten-Aktien-Gesellschaft, Cologne-Ehrenfeld, Germany. Glass tubes for water-gages. No. 86,617; May 21; Gaz. vol. 178; p. 880.
Rhenania Glühlicht Comp. G. m. b. H., Cologne, Germany. Incandescent mantles. No. 86,331; Apr. 30; Gaz. vol. 177; p. 1293.
Rhinelander Paper Company, Rhinelander, Wis. Wrapping-paper. No. 88,026; Aug. 20; Gaz. vol. 181; p. 817.
Rhoads & Sons, J. E., Philadelphia, Pa. Leather belting. No. 86,332; Apr. 30; Gaz. vol. 177; p. 1293.
Ricchezza, Antonio, Philadelphia, Pa. Macaroni. No. 87,256; July 2; Gaz. vol. 180; p. 318.
Rice Bros. Packing Co., Apalachicola, Fla. Canned oysters. No. 86,453; May 7; Gaz. vol. 178; p. 316.
Rice & Hutchins, Incorporated, Portland, Me., and Boston, Mass. Leather boots and shoes. No. 88,952; Oct. 29; Gaz. vol. 183; p. 1304.
Rice, R. W., Wolfskill, Cal. Canned fruits and vegetables. No. 85,683; Mar. 5; Gaz. vol. 176; p. 270.
Richard Hudnut, New York, N. Y. Soap. No. 85,127; Jan. 30; Gaz. vol. 174; p. 1213.
Richard Hudnut, New York, N. Y. Soap. Nos. 87,073–4; June 25; Gaz. vol. 179; p. 1102.
Richard Hudnut, New York, N. Y. Soap. Nos. 87,888–9; Aug. 13; Gaz. vol. 181; p. 536.
Richard Hudnut, New York, N. Y. Certain named toilet preparations. No. 87,998; Aug. 20; Gaz. vol. 181; p. 816.
Richard Hudnut, New York, N. Y. Hair-tonic. No. 88,087; Aug. 27; Gaz. vol. 181; p. 1068.
Richard Hudnut, New York, N. Y. Perfumes, toilet waters, and sachets. No. 88,183; Sept. 3; Gaz. vol. 182; p. 244.
Richard Hudnut, New York, N. Y. Perfumes, toilet waters, and talcum powders. No. 88,877; Oct. 29; Gaz. vol. 183; p. 1302.
Richard Hudnut, New York, N. Y. Perfumes and sachet-powder. No. 88,878; Oct. 29; Gaz. vol. 183; p. 1302.
Richard Hudnut, New York, N. Y. Certain named toilet preparations. Nos. 88,879–80; Oct. 29; Gaz. vol. 183; p. 1302.
Richard Hudnut, New York, N. Y. Perfumes, sachet, face, and bath powders. No. 88,881; Oct. 29; Gaz. vol. 183; p. 1302.
Richard Hudnut, New York, N. Y. Perfumes, sachet, face, and tooth powder. No. 88,882; Oct. 29; Gaz. vol. 183; p. 1302.
Richard Hudnut, New York, N. Y. Certain named toilet preparations. No. 88,883; Oct. 29; Gaz. vol. 183; p. 1302.
Richard Hudnut, New York, N. Y. Soap. No. 89,112; Nov. 12; Gaz. vol. 184; p. 546.
Richard Hudnut, New York, N. Y. Certain named toilet preparations. No. 89,367; Dec. 10; Gaz. vol. 185; p. 520.
Richard Hudnut, New York, N. Y. Perfumes. No. 89,368; Dec. 10; Gaz. vol. 185; p. 520.
Richard Hudnut, New York, N. Y. Soda-water. No. 89,657; Dec. 31; Gaz. vol. 185; p. 1374.
Richardson Silk Co., Chicago, Ill. Mercerized cotton floss. No. 86,732; May 28; Gaz. vol. 178; p. 1148.
Richheimer & Co., Chicago, Ill. Coffees. No. 88,423; Sept. 17; Gaz. vol. 182; p. 717.
Richmond Cedar Works, Richmond Va. Laundry washing-machines. No. 87,257; July 2; Gaz. vol. 180; p. 318.
Richmond & Co., L., Brockton, Mass. Disinfectants. No. 85,495; Feb. 20; Gaz. vol. 175; p. 839.
Richmond Hosiery Mills, Chattanooga, Tenn., and Rossville, Ga. Hosiery. No. 85,617; Feb. 27; Gaz. vol. 175; p. 1095.
Richmond Lace Works, Portland, Me., and Alton, R. I. Cotton, silk, linen, and mercerized laces. No. 86,454; May 7; Gaz. vol. 178; p. 316.
Richter, Carl H. F., London, England. Medicinal tonics, pills, and ointments. No. 87,008; June 18; Gaz. vol. 179; p. 848.
Richter & Hoffmann The Harvard Dental Manufacturing Company Gesellschaft mit beschränkter Haftung, Berlin, Germany. Cement for filling teeth. No. 86,333; Apr. 30; Gaz. vol. 177; p. 1293.
Rider, John W., Scottsburg, Ind. Certain foods. No. 85,179; Jan. 30; Gaz. vol. 174; p. 1214.
Ridgway, Edward F., Sheffield, England. Certain knives, cleavers, choppers, pig-scrapers, &c. No. 87,657; July 30; Gaz. vol. 180; p. 1389.
Riedel, Actiengesellschaft, J. D., Berlin, Germany. Chemicals, medicines, and pharmaceutical preparations. No. 88,204; Sept. 3; Gaz. vol. 182; p. 244.
Right Manufacturing Company, Hillisburg, Ind. Carbon-remover. No. 88,116; Aug. 27; Gaz. vol. 181; p. 1069.
Riker & Co., J. J., New York, N. Y. Cravats. No. 88,789; Oct. 22; Gaz. vol. 183; p. 1029.
Ring-Point Company, The, Hartford, Conn. Horseshoes. No. 85,496; Feb. 20; Gaz. vol. 175; p. 839.
Rippey, William, Cincinnati, Ohio. Preparations for use in making frozen desserts. No. 87,927; Aug. 13; Gaz. vol. 181; p. 537.
Risdon Iron & Locomotive Works, San Francisco, Cal. Water-tube boilers. No. 85,044; Jan. 23; Gaz. vol. 174; p. 1023.
Ro-Co-Na Company, New York, N. Y. Obesity remedy. No. 89,501; Dec. 17; Gaz. vol. 185; p. 825.
Roach, Tisdale & Co., Minneapolis, Minn. Candy. No. 88,363; Sept. 10; Gaz. vol. 182; p. 507.
Robbins, Henry W., Medina, N. Y. Automobile wind-shields. No. 87,368; July 9; Gaz. vol. 180; p. 599.
Robbins, John B., Malden, Mass. Chewing-gum. No. 86,939; June 11; Gaz. vol. 179; p. 569.
Roberson, William C., New York, N. Y. Wheat-flour. No. 85,767; Mar. 12; Gaz. vol. 176; p. 522.
Robert H. Foerderer, Incorporated, Philadelphia, Pa. Glue. No. 89,180; Nov. 19; Gaz. vol. 184; p. 799.
Robert Heath & Sons Limited, Stoke-upon-Trent, England. Iron and steel bars and hoops. No. 85,813; Mar. 19; Gaz. vol. 176; p. 745.
Robert Heath & Sons Limited, Stoke-upon-Trent, England. Iron and steel sheets, plates, bars, and rods. No. 88,281; Sept. 10; Gaz. vol. 182; p. 504.
Robert Marsland & Co., Limited, Manchester, England. Cotton yarns. No. 89,480; Dec. 17; Gaz. vol. 185; p. 824.
Roberts & Co., Thomas, Philadelphia, Pa. Canned vegetables. No. 84,876; Jan. 9; Gaz. vol. 174; p. 581.
Roberts & Co., Thomas, Philadelphia, Pa. Certain named foods. No. 88,954; Oct. 29; Gaz. vol. 183; p. 1304.
Roberts, Herbert F., Wilmington, Mass. Candies. No. 85,006; Jan. 16; Gaz. vol. 174; p. 825.
Roberts, Johnson & Rand Shoe Company, assignor to International Shoe Company, St. Louis, Mo. Leather boots and shoes. No. 85,996; Apr. 2; Gaz. vol. 177; p. 236.
Robin, Maurice, Paris, France. Pharmaceutical preparation for use in certain diseases. No. 88,592; Oct. 1; Gaz. vol. 183; p. 214.
Robins Conveying Belt Company, Passaic, N. J., and New York, N. Y. Belts for conveyers, vanners, &c. No. 88,117; Aug. 27; Gaz. vol. 181; p. 1069.
Robinson, Bernard, Omaha, Nebr. Ointment and salve. No. 89,294; Dec. 3; Gaz. vol. 185; p. 245.
Robinson Bros. & Company, Incorporated, Portland, Me., and Malden, Mass. Perfumes. No. 86,456; May 7; Gaz. vol. 178; p. 316.
Robinson Bros. & Company, Incorporated, Portland, Me., and Malden, Mass. Toilet soap. No. 87,104; June 25; Gaz. vol. 179; p. 1103.
Robinson Bros. & Company Incorporated, Portland, Me., and Malden, Mass. Soap. No. 87,105; June 25; Gaz. vol. 179; p. 1103.

Alphabetical list of registrants of trade-marks—Continued.

Robinson & Co., J., New York, N. Y. Kerchiefs and handkerchiefs. No. 89,062; Nov. 5; Gaz. vol. 184; p. 283.
Robinson & Davis, San Antonio, Tex. Medical compound. No. 86,457; May 7; Gaz. vol. 178; p. 316.
Robinson Manufacturing Company, Muncy, Pa. Flour, feed, and cereal mills and grain-elevating machinery. No. 88,593; Oct. 1; Gaz. vol. 183; p. 214.
Robt. H. Ingersoll & Bro., New York, N. Y. Watches and clocks. Nos. 89,265–6; Dec. 3; Gaz. vol. 185; p. 244.
Rocher Freres, La Côté St. André, France. Liquors made with cherries. No. 87,369; July 9; Gaz. vol. 180; p. 599.
Rochester Rotary Washer Company, Rochester, N. Y. Laundry washing-machines. No. 87,928; Aug. 13; Gaz. vol. 181; p. 537.
Rock-A-Water Chemical Company, The, Denver, Colo. Remedies for obesity, dyspepsia, and indigestion. No. 84,915; Jan. 9; Gaz. vol. 174; p. 582.
Rockford Watch Co. Ltd., The, Rockford, Ill. Watch cases and movements. Nos. 87,483–4; July 16; Gaz. vol. 180; p. 875.
Rockowitz, Abraham, New York, N. Y. Abdominal supporters. No. 87,810; Aug. 6; Gaz. vol. 181; p. 262.
Rockowitz, Abraham, New York, N. Y. Corsets. No. 88,118; Aug. 27; Gaz. vol. 181; p. 1069.
Rockwell Furnace Company, New York, N. Y. Oil, coal, and gas furnaces and parts thereof. No. 86,733; May 28; Gaz. vol. 178; p 1148.
Rode & Brand, Inc., New York, N. Y. Cigars, cigarettes, and tobacco. No. 88,205; Sept. 3; Gaz. vol. 182; p. 244.
Rode & Brand, Inc., New York, N. Y. Cigars, cigarettes, tobacco, and snuff. No. 88,955; Oct. 29; Gaz. vol. 183; p. 1304.
Rode & Brand, Inc., New York, N. Y. Cigars, smoking-tobacco, and cigarettes. No. 89,419; Dec. 10; Gaz. vol. 185; p. 522.
Roderick Lean Manufacturing Company, Mansfield, Ohio. Cultivators, harrows, and drills. No. 87,084; June 25; Gaz. vol. 179; p. 1102.
Roebuck Weather Strip and Wire Screen Company, New York, N. Y. Wood and metal weather-strip. No. 87,563; July 23; Gaz. vol. 180; p. 1134.
Rogers, Arthur, Barnesville, Ohio. Granular or comminuted sweeping compounds. No. 88,591; Oct. 1; Gaz. vol. 183; p. 214.
Rogers, Francis A., London, England. Medicated voice-lozenges. No. 89,420; Dec. 10; Gaz. vol. 185; p. 522.
Rogers, Lunt & Bowlen Co., Greenfield, Mass. Silver knives, forks, spoons, tongs, &c. No. 88,364; Sept. 10; Gaz. vol. 182; p. 507.
Rohling, L. C., St. Louis, Mo. Remedies for colds, grip, and headache. No. 88,365; Sept. 10; Gaz. vol. 182; p. 507.
Roll-O-Belt Company, The, Philadelphia, Pa. Trousers and ladies' outside skirts. No. 87,370; July 9; Gaz. vol. 180; p. 599.
Rolls-Royce Limited, Osmaston, Derby, England. Motor-cars and chassis. No. 86,458; May 7; Gaz. vol. 178; p. 316.
Roman Uhl Nachfolger J. M. Breunig, Vienna, Austria-Hungary. Food-wafers for invalids. No. 89,144; Nov. 12; Gaz. vol. 184; p. 547.
Roman Uhl Nachfolger Josef M. Breunig, Vienna, Austria-Hungary. Karlsbad-water biscuits. No. 88,956; Oct. 29; Gaz. vol. 183; p. 1304.
Roman Uhl Nachfolger Josef M. Breunig, Vienna, Austria-Hungary. Biscuits. No. 89,201; Nov. 19; Gaz. vol. 184; p. 799.
Romney-Mountain Orchard Company, The, Romney, W. Va. Fresh peaches. No. 87,258; July 2; Gaz. vol. 180; p. 318.
Rondoux Sisters, Salt Lake City, Utah. Medicine for the relief of lung and throat ailments. No. 87,929; Aug. 13; Gaz. vol. 181; p. 537.
Roneo Company of New York, New York, N. Y. Index-cards. No. 86,088; Apr. 9; Gaz. vol. 177; p. 521.
Roos Manufacturing Co., The, Chicago, Ill. Red-cedar chests and utility-boxes. No. 89,202; Nov. 19; Gaz. vol. 184; p. 799.
Roos Manufacturing Co., The, Chicago, Ill. Wooden curtain poles, rods, &c. No. 89,203; Nov. 19; Gaz. vol. 184; p. 800.
Root & Van Dervoort Engineering Company, The, East Moline, Ill. Internal-combustion engines. No. 89,145; Nov. 12; Gaz. vol. 184; p. 547.
Rose Bud Tabule Co., The, Inc., New York, N. Y. Internal medicine for sour stomach, nausea, heartburn, and water-brash. No. 89,204; Nov. 19; Gaz. vol. 184; p. 800.
Rose Manufacturing Co., Philadelphia, Pa. Oil and gas lamps, gas generators and burners. No. 86,552; May 14; Gaz vol. 178; p. 588.
Rose Manufacturing Co., Philadelphia, Pa. Certain electrical supplies. No. 88,641; Oct. 8; Gaz. vol. 183; p. 500.
Rose Spring Bed Company, Memphis, Tenn. Mattresses. No. 84,756; Jan. 2; Gaz. vol. 174; p. 284.
Rosenau & Loeb, Philadelphia, Pa. Hosiery. No. 87,930; Aug. 13; Gaz. vol. 181; p. 537.
Rosenberg Bros. & Co., San Francisco, Cal. Raisins. Nos. 86,089–90; Apr. 9; Gaz. vol. 177; p. 521.
Rosenberg Bros. & Co., San Francisco, Cal. Certain foods. No. 86,619; May 21; Gaz. vol. 178; p. 880.
Rosenberg Bros. & Co., San Francisco, Cal. Certain foods. No. 86,670; May 21; Gaz. vol. 178; p. 882.
Rosenberg, Louis H., Boise, Idaho. Cigars. No. 86,334; Apr. 30; Gaz. vol. 177; p. 1293.
Rosenberg & Sons, A., Chicago, Ill. Dresses. No. 86,160; Apr. 16; Gaz. vol. 177; p. 766.
Rosenblatt, Joseph, Providence, R. I. Eyeglasses and spectacles, &c. No. 89,702; Dec. 31; Gaz. vol. 185; p. 1376.
Rosenblatt & Son, Sigmund, Baltimore, Md. Men's suits. No. 87,009; June 18; Gaz. vol. 179; p. 848.
Rosenfeld & Company, E., Baltimore, Md. Cotton, linen, silk, woolen, &c., piece goods. No. 85,684; Mar. 5; Gaz. vol. 176; p. 270.
Rosenfield Manufacturing Company, New York, N. Y. Suction-cleaners and attachments therefor. No. 88,119; Aug. 27; Gaz. vol. 181; p. 1069.
Rosenheim's Son, E., New York, N. Y. Cloaks and suits. No. 86,001; Apr. 2; Gaz. vol. 177; p. 237.
Rosenstein, Morris, New York, N. Y. Cotton piece goods. No. 85,768; Mar. 12; Gaz. vol. 176; p. 522.
Rosenstein & Traub. (See Steiner, Rosenstein & Traub, assignor.)
Rosenstern & Co., F., New York, N. Y. Pianos and piano-players. No. 87,658; July 30; Gaz. vol. 180; p. 1389.
Rosenthal & Bros., Samuel, New York, N. Y. Boys' outer suits. No. 85,180; Jan. 30; Gaz. vol. 174; p. 1214.
Rosenthal, Morris, Buffalo, N. Y. Rubber tires. No. 87,106; June 25; Gaz. vol. 179; p. 1103.
Rosenthal & Stark, New York, N. Y. Shoes and slippers. No. 89,703; Dec. 31; Gaz. vol. 185; p. 1376.
Rosenwald & Weil, Chicago, Ill. Certain named outer garments for men and boys. No. 89,421; Dec. 10; Gaz. vol. 185; p. 522.
Rostenberg, Jacob, White Plains, N. Y. Bonnets, hats, and caps. No. 85,007; Jan. 16; Gaz. vol. 174; p. 825.
Roth-Homeyer Coffee Co., St. Louis, Mo. Coffee, tea, spices, and flavoring extracts. No. 85,685; Mar. 5; Gaz. vol. 176; p. 270.
Rothschild, Meyers & Co., New York, N. Y. Certain surgical appliances. No. 86,240; Apr. 23; Gaz. vol. 177; p. 1040.
Rothschild, Meyers & Co., New York, N. Y. Certain hardware supplies. No. 86,620; May 21; Gaz. vol. 178; p. 880.
Rothschild, Meyers & Co., New York, N. Y. Aluminum kitchen-ware. No. 88,594; Oct. 1; Gaz. vol. 183; p. 214.
Rotkowitz Bros., New York, N. Y. Face powder and cream, hair tonic and dye. No. 84,754; Jan. 2; Gaz. vol. 74; p. 284.
Rotospeed Company, The, New York, N. Y. Stencil-printing machines. No. 88,206; Sept. 3; Gaz. vol. 182; p. 244.
Roundy, Peckham & Dexter Co., Milwaukee, Wis. Certain named foods. No. 88,424; Sept. 17; Gaz. vol. 182; p. 717.
Rouss, Firm of Charles B., New York, N. Y. Hosiery. No. 88,957; Oct. 29; Gaz. vol. 183; p. 1304.
Rouss, P. W., New York, N. Y. Work-shirts. No. 87,485; July 16; Gaz. vol. 180; p. 875.
Roveda, Pedro, Mexico, Mexico. Drawings, plans, &c., for constructions. No. 87,811; Aug. 6; Gaz. vol. 181; p. 262.
Row Preserving Company, near Chambersburg, Pa. Certain foods. No. 85,497; Feb. 20; Gaz. vol. 175; p. 839.
Rowe Calk Company, The, Hartford, Conn. Horseshoes. No. 86,335; Apr. 30; Gaz. vol. 177; p. 1293.
Rowe Calk Company, The, Hartford, Conn. Taps, drills, wrenches, &c. No. 88,207; Sept. 3; Gaz. vol. 182; p. 244.
Rowe Calk Company, The, Hartford, Conn. Horseshoes. No. 88,368; Sept. 10; Gaz. vol. 182; p. 507.
Rowe Patent Calk Company, Hartford, Conn. Horseshoe-calks. No. 87,564; July 23; Gaz. vol. 180; p. 1134.
Rowe Patent Calk Company, The, Hartford, Conn. Horse-shoe-calks. Nos. 88,366–7; Sept. 10; Gaz. vol. 182; p. 507.
Rowe Patent Calk Company, The, Hartford, Conn. Horse-shoe-calks. Nos. 88,369–70; Sept. 10; Gaz. vol. 182; p. 507.
Rowe Ring-Point Company, The, Hartford, Conn. Horse-nails. No. 86,734; May 28; Gaz. vol. 178; p. 1148.
Rowe Ring-Point Company, Hartford, Conn. Hardening-powder and case-hardening compound. No. 88,702; Oct. 15; Gaz. vol. 183; p. 778.
Rowe Ring-Point Company, The, Hartford, Conn. Welding powder and plates. No. 89,147; Nov. 12; Gaz. vol. 184; p. 547.
Rowell, Albert L., Marblehead, Mass. Cigarettes and cigars. No. 85,618; Feb. 27; Gaz. vol. 175; p. 1095.
Rowley, Elmer H., Pittsburgh, Pa. Artificial limbs. No. 87,107; June 25; Gaz. vol. 179; p. 1103.
Royal Baking Powder Company, Jersey City, N. J., and New York, N. Y. Soda for cooking. No. 84,916; Jan. 9; Gaz. vol. 174; p. 582.

Alphabetical list of registrants of trade-marks—Continued.

Royal Marble Co., Knoxville, Tenn. Quarried and prepared marble. No. 88,425; Sept. 17; Gaz. vol. 182; p. 717.
Royal Specialty Company, The, Cleveland, Ohio. Electric vibrators. No. 85,769; Mar. 12; Gaz. vol. 176; p. 522.
Royal Specialty Company, The, Cleveland, Ohio. Electric hair-driers and vibrators. No. 85,770; Mar. 12; Gaz. vol. 176; p. 522.
Royal Tea & Coffee Company. (See Royal Tea Company, assignor.)
Royal Tea Company, assignor to Royal Tea & Coffee Company, San Antonio, Tex. Tea and coffee. No. 86,161; Apr. 16; Gaz. vol. 177; p. 766.
Royal Valley Coffee Co., Detroit, Mich. Coffees. No. 89,063; Nov. 5; Gaz. vol. 184; p. 283.
Royal Worcester Corset Co., Worcester, Mass. Corset steels or bones. No. 86,621; May 21; Gaz. vol. 178; p. 880.
Royer & Zweibel, Wilkes-Barre, Pa. Fibrous mineral packing. No. 87,371; July 9; Gaz. vol. 180; p. 599.
Rozanski, Boleslaus J., Chicago, Ill. Remedy for certain diseases. No. 87,486; July 16; Gaz. vol. 180; p. 875.
Rubens & Marble, Chicago, Ill. Knitted undershirts. Nos. 85,008–10; Jan. 16; Gaz. vol. 174; p. 825.
Rubisco Company, St. Louis, Mo. Tooth-powder, rouge, face-cream, &c. No. 86,241; Apr. 23; Gaz. vol. 177; p. 1040.
Rudolf Saenger Co., New York, N. Y. Hair-nets. No. 89,582; Dec. 24; Gaz. vol. 185; p. 1050.
Rudolff, Herman, Novato, Cal. Cheese. No. 87,659; July 30; Gaz. vol. 180; p. 1389.
Rudolff, Herman, Novato, Cal. Cheese. No. 87,931; Aug. 13; Gaz. vol. 181; p. 537.
Rudolph Wurlitzer Co., The, Cincinnati, Ohio. Musical strings. No. 84,774; Jan. 2; Gaz. vol. 174; p. 285.
Rudolph Wurlitzer Co., Cincinnati, Ohio. Metal-polish. No. 85,537; Feb. 20; Gaz. vol. 175; p. 841.
Rudolph Wurlitzer Co., The, Cincinnati, Ohio. Pianos. No. 86,113; Apr. 9; Gaz. vol. 177; p. 521.
Rudolph Wurlitzer Co., The, Cincinnati, Ohio. Pianos. No. 86,553; May 14; Gaz. vol. 178; p. 588.
Rudy-Patrick Seed Co., Kansas City, Mo. Poultry feed. No. 86,940; June 11; Gaz. vol. 179; p. 569.
Rueb & Co., Edward, Chicago, Ill. Butter and eggs. No. 84,877; Jan. 9; Gaz. vol. 174; p. 581.
Runion, David F., Broadway, Va. Remedy for all poultry diseases. No. 85,619; Feb. 27; Gaz. vol. 175; p. 1095.
Ruppert, Jacob, New York, N. Y. Beer. No. 86,002; Apr. 2; Gaz. vol. 177; p. 237.
Russell & Proell, Keene, N. H. Insect-catcher. No. 86,554; May 14; Gaz. vol. 178; p. 588.
Russia Cement Company, Gloucester, Mass. Fish-oils. No. 89,064; Nov. 5; Gaz. vol. 184; p. 283.
Russmann Mfg. Co., Cincinnati, Ohio. Remedy for the blood and bowels. No. 88,703; Oct. 15; Gaz. vol. 183; p. 778.
Rust-Parker-Martin Company, Duluth, Minn. Certain foods. No. 89,065; Nov. 5; Gaz. vol. 184; p. 283.
Rustico, Wheeling, W. Va. Games. No. 86,555; May 14; Gaz. vol. 178; p. 588.
Rutland Mfg. Company, Rutland, Vt. Certain named dairy machinery. No. 89,148; Nov. 12; Gaz. vol. 184; p. 547.
Ruud Manufacturing Company, Pittsburgh, Pa. Water-heaters. No. 86,556; May 14; Gaz. vol. 178; p. 588.
Ryan, Thomas F., Oak Ridge, Va. Milk and cream. No. 86,622; May 21; Gaz. vol. 178; p. 880.
Ryff & Co., Berne, Switzerland. Certain article of clothing. No. 87,010; June 18; Gaz. vol. 179; p. 848.
S. Howes Company, The, Silver Creek, N. Y. Cutlery, machinery, and tools, and parts thereof. No. 86,594; May 21; Gaz. vol. 178; p. 879.
S. Twitchell Company, Camden, N. J., and Philadelphia, Pa. Carbonated and syrup beverages. No. 87,501; July 16; Gaz. vol. 180; p. 876.
S. A. Miniere Scisti Bituminosi di Meride e Besano, Meride, Switzerland. Ichthyol-surrogate and mineral oils. No. 87,108; June 25; Gaz. vol. 179; p. 1103.
S. B. Foot & Co., Red Wing, Minn. Shoes. No. 89,545; Dec. 24; Gaz. vol. 185; p. 1049.
S. B. Foot & Co., Red Wing, Minn. Side-leathers. No. 89,640; Dec. 31; Gaz. vol. 185; p. 1374.
S. E. Loveless Advertising Service Inc., New York, N. Y. Bread. No. 88,318; Sept. 10; Gaz. vol. 182; p. 505.
S. M. Bixby & Co., Brooklyn, N. Y. Shoe finishing-paste. No. 85,548; Feb. 27; Gaz. vol. 175; p. 1093.
S. S. Pierce Company, Boston, Mass. Cigars. No. 88,198; Sept. 3; Gaz. vol. 182; p. 244.
S. S. Stafford, Inc., New York, N. Y. Writing-inks. No. 86,171; Apr. 16; Gaz. vol. 177; p. 766.
Saacke, Charles W., New York, N. Y. Asphalt. No. 87,372; July 9; Gaz. vol. 180; p. 599.
Sackman Brothers Company, New York, N. Y. Children's outer suits. No. 86,003; Apr. 2; Gaz. vol. 177; p. 237.
Salafia Permanent Embalming Method Co., New York, N. Y. Embalming fluid. No. 86,460; May 7; Gaz. vol. 178; p. 361.
Salamander Grate Bar Co., New York, N. Y. Grates. No. 84,755; Jan. 2; Gaz. vol. 174; p. 284.
Salant & Salant, New York, N. Y. Work-shirts. No. 87,487; July 16; Gaz. vol. 180; p. 875.
Sallusto & Co., Giustino, New York, N. Y. Tonic. No. 89,704; Dec. 31; Gaz. vol. 185; p. 1376.
Salubra Wall-Cover Company Basle, Basel, Switzerland, Paper wall-coverings. No. 89,295; Dec. 3; Gaz. vol. 185; p. 245.
Salubra Wall-Cover Company Basle, Basel, Switzerland. Wall-coverings of paper. Nos. 89,504–5; Dec. 17; Gaz. vol. 185; p. 825.
Samery & Wantz, Lowville, N. Y. Medicine for all abrasions of the skin. No. 84,917; Jan. 9; Gaz. vol. 174; p. 582.
Samstag & Hilder Bros., New York, N. Y. Toys. No. 88,208; Sept. 3; Gaz. vol. 182; p. 244.
Samuels, Daniel B., San Francisco, Cal. Vending-machines. No. 85,290; Feb. 6; Gaz. vol. 175; p. 261.
Samurai Perfume Co., The, New York, N. Y. Certain toilet preparations. No. 87,259; July 2; Gaz. vol. 180; p. 318.
San Antonio Macaroni Factory, San Antonio, Tex. Macaroni food preparations. No. 87,661; July 30; Gaz. vol. 180; p. 1389.
San Antonio Macaroni Factory, San Antonio, Tex. Alimentary paste. No. 88,371; Sept. 10; Gaz. vol. 182; p. 507.
San Antonio Macaroni Factory, San Antonio, Tex. Macaroni, vermicelli, and spaghetti. No. 88,958; Oct. 29; Gaz. vol. 183; p. 1304.
San Francisco Salt Refinery, San Francisco, Cal. Salt. No. 85,715; Mar. 5; Gaz. vol. 176; p. 271.
San Francisco Salt Refinery, San Francisco, Cal. Salt. No. 88,522; Sept. 24; Gaz. vol. 182; p. 967.
San Telmo Cigar Mfg. Co., Detroit, Mich. Cigars. No. 84,756; Jan. 2; Gaz. vol. 174; p. 284.
Sanborn & Son, Geo. W., Astoria, Oreg. Canned salmon. No. 89,066; Nov. 5; Gaz. vol. 184; p. 283.
Sanchez & Haya Co., Tampa, Fla. Cigars. No. 85,882; Mar. 26; Gaz. vol. 176; p. 1066.
Sanchez & Haya Co., Tampa, Fla. Cigars. Nos. 86,557–8; May 14; Gaz. vol. 178; p. 588.
Sanchez & Haya Co., Tampa, Fla. Cigars. No. 87,109; June 25; Gaz. vol. 179; p. 1103.
Sanchez & Haya, Tampa, Fla. Cigars. No. 88,959; Oct. 29; Gaz. vol. 183; p. 1305.
Sanderson & Brother, W. S., Denver, Colo. Coffee. No. 86,091; Apr. 9; Gaz. vol. 177; p. 521.
Sanderson Brothers & Newbould Limited, Sheffield, England. Metals and metal castings and forgings. No. 86,735; May 28; Gaz. vol. 178; p. 1148.
Sanderson Brothers & Newbould Limited, Sheffield, England. Certain cutlery, machinery, and tools and parts thereof. No. 86,941; June 11; Gaz. vol. 179; p. 569.
Sanderson Fertilizer & Chemical Co., New Haven, Conn. Fertilizers. No. 88,705; Oct. 15; Gaz. vol. 183; p. 778.
Sandwich Freezer Co., Sandwich, Mass. Frozen fish. No. 86,623; May 21; Gaz. vol. 178; p. 880.
Sanisteel Company, The, New York, N. Y. Certain receptacles. No. 87,488; July 16; Gaz. vol. 180; p. 875.
Sanitary Bedding Co., New York, N. Y. Mattresses. No. 86,832; June 4; Gaz. vol. 179; p. 283.
Sanitary Drinking Cup Co., The, Chicago, Ill. Paper drinking-cups. No. 85,498; Feb. 20; Gaz. vol. 175; p. 839.
Sanitary Skirt Shield Co., Seattle, Wash. Dress-shields. No. 85,883; Mar. 26; Gaz. vol. 176; p. 1066.
Sanitas Fundoshi Company, The, Cleveland, Ohio. Suspensory bandages. No. 86,004; Apr. 2; Gaz. vol. 177; p. 237.
Saratoga Graphite Company, Saratoga Springs, N. Y. Graphite. No. 85,771; Mar. 12; Gaz. vol. 176; p. 522.
Saravia & Co., Mizarrol E., Guatemala, Guatemala. Remedy for chills and fever and malaria. No. 89,408; Dec. 10; Gaz. vol. 185; p. 521.
Sarrazin, Jules J., New Orleans, La. Tooth powders and polishes, gum-tonics, and mouth-washes. No. 88,595; Oct. 1; Gaz. vol. 183; p. 214.
Sass, Stephen K., Chicago, Ill. Salves and balms. No. 86,462; May 7; Gaz. vol. 178; p. 316.
Saurer, Adolph, Arbon, Switzerland. Certain vehicles. No. 86,242; Apr. 23; Gaz. vol. 177; p. 1040.
Saurer, Adolph, Arbon, Switzerland. Certain named machines and parts thereof. No. 87,662; July 30; Gaz. vol. 180; p. 1389.
Saurer, Adolph, Arbon, Switzerland. Revolvers, pistols, and shotguns. No. 89,205; Nov. 19; Gaz. vol. 184; p. 800.
Savarese Macaroni Co., The, Brooklyn, N. Y. Macaroni. No. 88,960; Oct. 29; Gaz. vol. 183; p. 1305.
Savarese Macaroni Co., The, Brooklyn, N. Y. Alimentary paste. No. 88,961; Oct. 29; Gaz. vol. 183; p. 1305.
Saville, Somes & Co., Boston, Mass. Certain foods. No. 86,671; May 21; Gaz. vol. 178; p. 882.
Saxlehner, Firm of Andreas, Budapest, Austria-Hungary. Medicinal preparation containing salts. No. 85,181; Jan. 30; Gaz. vol. 174; p. 1214.
Saxlehner, Firm of Andreas, Budapest, Austria-Hungary. Laxative preparation. No. 89,705; Dec. 31; Gaz. vol. 185; p. 1376.
Schacht & Co., Goshen, Ind. Certain hardware and plumbing and steam-fitting supplies. No. 87,260; July 2; Gaz. vol. 180; p. 318.

Alphabetical list of registrants of trade-marks—Continued.

Schade Valve Manufacturing Co., Philadelphia, Pa. Brass and iron valves. No. 85,291; Feb. 6; Gaz. vol. 175; p. 261.
Schaefer, Anna M., Indianapolis, Ind. Ostrich feathers. No. 87,373; July 9; Gaz. vol. 180; p. 599.
Schaeffers, Joseph, Cleveland, Ohio. Ball-bearings. No. 88,706; Oct. 15; Gaz. vol. 183; p. 778.
Schäffer, Eugen, Berlin, Germany. Deodorizers, disinfectants, toilet preparations, &c. No. 89,296; Dec. 3; Gaz. vol. 185; p. 245.
Schaffner, Theophilus C., Chicago, Ill. Men's outer suits. No. 85,379; Feb. 13; Gaz. vol. 175; p. 539.
Scharke & Co., Scharkefa, Berlin, Germany. Certain named cutlery and tools. No. 87,934; Aug. 13; Gaz vol. 181; p. 537.
Scharpenter, John P., Aurora. Ill. Salve. No. 88,027; Aug. 20; Gaz. vol. 181; p. 817.
Scheinman, Isaac, New York, N. Y. Coats, vests, trousers, and overcoats. No. 87,663; July 30; Gaz. vol. 180; p. 1389.
Schenck & Son, Dr. J. H., Philadelphia, Pa. Pills for bilious and liver complaints. No. 88,524; Sept. 24; Gaz. vol. 182; p. 967.
Scherer, William J., Rochester, N. Y. Cathartic powder. No. 86,092; Apr. 9; Gaz. vol. 177; p. 521.
Schick, Gustave G., Bronxville and New York, N. Y. Rubber packing for machinery. No. 85,182; Jan. 30; Gaz. vol. 174; p. 1214.
Schiff, Bernard, New York, N. Y. Tea-gowns, kimonos, dressing-sacks, and house-dresses. No. 89,423; Dec. 10; Gaz. vol. 185; p. 522.
Schimmel, John J., Port Chester, N. Y. Hair-tonics. No. 89,152; Nov. 12; Gaz. vol. 184; p. 547.
Schisgall, Theodore, New York, N. Y. Clocks. No. 85,380; Feb. 13; Gaz. vol. 175; p. 539.
Schisgall, Theodore, New York, N. Y. Clocks. No. 85,686; Mar. 5; Gaz. vol. 176; p. 270.
Schleicher & Schüll, Carl, Duren, Germany. Filters and filtering-papers. Nos. 89,067–8; Nov. 5; Gaz. vol. 184; p. 283.
Schloss, Meyer W., New York, N. Y. Belts and hose-supporters. No. 86,942; June 11; Gaz. vol. 179; p. 569.
Schmid, Eugene, Cincinnati, Ohio. Bread. No. 86,943; June 11; Gaz. vol. 179; p. 569.
Schmidt & Ade, Chicago, Ill. Hypodermic syringes and surgical thermometers. No. 86,336; Apr. 30; Gaz. vol. 177; p. 1293.
Schmidt, C. S., Niederlahnstein-on-the-Rhine, Germany. Rodent-traps. No. 86,163; Apr. 16; Gaz. vol. 177; p. 766.
Schmidt, Drahtgewebe und Geflechtewerke, C. S., Niederlahnstein-on-the-Rhine, Germany. Rodent-traps. No. 86,162; Apr. 16; Gaz. vol. 177; p. 766.
Schmidt, Gustave F., Chicago, Ill. Oil for use in gasolene-gas-generating machines, carbureters, &c. No. 89,297; Dec. 3; Gaz. vol. 185; p. 245.
Schmidt, Johann, Nuremberg, Germany. Wafer-capsule-closing apparatus. No. 86,736; May 28; Gaz. vol. 178; p. 1148.
Schmidt, Peter L., Elberfeld, Germany. Razors, scissors, and pocket-knives. Nos. 87,261–2; July 2; Gaz. vol. 180; p. 318.
Schmidt, Peter L., Elberfeld, Germany. Hair-cutting machines and scissors. No. 87,812; Aug. 6; Gaz. vol. 181; p. 262.
Schmidt, Firm of Peter L., Elberfeld, Germany. Razors, scissors, and pocket-knives. No. 88,962; Oct. 29; Gaz. vol. 183; p. 1305.
Schmitt, Peter, Columbus, Nebr. Whole-wheat flour. No. 89,153; Nov. 12; Gaz. vol. 184; p. 547.
Schofield, Charles M., Marion, Ind., assignor to Sheldon-Foster Glass Company, Chicago, Ill. Glass bottles. No. 89,508; Dec. 17; Gaz. vol. 185; p. 825.
Scholl Manufacturing Company, The, Chicago, Ill. Instep-arch supports. No. 85,499; Feb. 20; Gaz. vol. 175; p. 840.
Scholtz Drug Company, Denver, Colo. Corn and bunion remedy. No. 88,707; Oct. 15; Gaz. vol. 183; p. 778.
Scholtz & Marturet, New York, N. Y. Barbed fence-wire. No. 89,298; Dec. 3; Gaz. vol. 185; p. 245.
Schott & Roth, Karl A., Stuttgart, Germany. Umbrellas and parasols. No. 85,687; Mar. 5; Gaz. vol. 176; p. 270.
Schotten, Julius J., St. Louis, Mo. Roasted coffee. No. 85,500; Feb. 20; Gaz. vol. 175; p. 840.
Schrank, Bela & Odon, Gran, Austria-Hungary. Cordials. No. 87,664; July 30; Gaz. vol. 180; p. 1389.
Schühle's Pure Grape Juice Co., Highland, N. Y. Grape-juice. No. 87,665; July 30; Gaz. vol. 180; p. 1389.
Schujahn, Frank, Fond du Lac, Wis. Cheese. No. 85,501; Feb. 20; Gaz. vol. 175; p. 840.
Schultz, Carl, Trinidad, Colo. Remedies for genito-urinary diseases. No. 85,011; Jan. 16; Gaz. vol. 174; p. 825.
Schulze Baking Company, Chicago, Ill. Bread. No. 88,426; Sept. 17; Gaz. vol. 182; p. 718.
Schütte Bünemann & Co., New York, N. Y. Green coffee. No. 86,944; June 11; Gaz. vol. 179; p. 569.
Schutze, Frederick, London, England. Teats for nursing-bottles. No. 88,596; Oct. 1; Gaz. vol. 183; p. 214.
Schwabacher Bros. & Co., Inc., Seattle, Wash. Certain named canned goods. No. 89,070; Nov. 5; Gaz. vol. 184; p. 283.
Schwanhausser late Grossberger & Kurz, Nuremberg, Germany. Lead and colored pencils. No. 84,878; Jan. 9; Gaz. vol. 174; p. 581.
Schwanhäusser, late Grossberger & Kurz, Nuremberg, Germany. Pencils. No. 86,243; Apr. 23; Gaz. vol. 177; p. 1040.
Scott & Gilbert Co., San Francisco, Cal. Certain foods. No. 84,879; Jan. 9; Gaz. vol. 174; p. 581.
Scott & Gilbert Co., San Francisco, Cal. Medicinal preparation for human and veterinary purposes. No. 85,184; Jan. 30; Gaz. vol. 174; p. 1215.
Scott, Hutchison, New York, N. Y. Belt-dressing. No. 85,183; Jan. 30; Gaz. vol. 174; p. 1215.
Scott Paper Company, Philadelphia, Pa. Toilet-paper. No. 86,165; Apr. 16; Gaz. vol. 177; p. 766.
Scott, William A., North Tazewell, Va. Ginger-ale. No. 85,884; Mar. 26; Gaz. vol. 176; p. 1066.
Scout Suspender & Specialty Mfg. Co., The, Kalamazoo, Mich. Suspenders. No. 86,945; June 11; Gaz. vol. 179; p. 569.
Scovill Manufacturing Company, Waterbury, Conn. Lamp-burners. No. 88,121; Aug. 27; Gaz. vol. 181; p. 1069.
Scranton Acetylene Lamp Company, Scranton, Pa. Portable gas-lamps. No. 85,772; Mar. 12; Gaz. vol. 176; p. 522.
Sct. Lucasbader Brunnen Actien-Gesellschaft, Budapest, Austria-Hungary. Natural mineral spring-waters. No. 87,011; June 18; Gaz. vol. 179; p. 848.
Scureman, Joseph B., Nanticoke, Pa. Remedies for coughs, headache, corns, &c. No. 86,244; Apr. 23; Gaz. vol. 177; p. 1040.
Seaboard Flour Company, Boston, Mass. Flour. No. 86,337; Apr. 30; Gaz. vol. 177; p. 1293.
Seaboard Rice Milling Co., Galveston, Tex. Rice. No. 86,093; Apr. 9; Gaz. vol. 177; p. 521.
Seabury & Johnson, East Orange, N. J., and New York, N. Y. Medicinal plasters. No. 89,507; Dec. 17; Gaz. vol. 185; p. 825.
Seacoast Canning Co., Eastport, Me. Fresh herring. No. 86,094; Apr. 9; Gaz. vol. 177; p. 521.
Seacoast Canning Co., Eastport, Me. Sardines. No. 88,122; Aug. 27; Gaz. vol. 181; p. 1069.
Seacoast Canning Co., Eastport, Me. Sardines. Nos. 88,209–11; Sept. 3; Gaz. vol. 182; p. 244.
Seacoast Canning Co., Eastport, Me. Sardines. No. 88,523; Sept. 24; Gaz. vol. 182; p. 967.
Seacoast Canning Company, Eastport, Me. Canned sardines. Nos. 89,149–51; Nov. 12; Gaz. vol. 184; p. 547.
Sealshipt Oyster System, Inc., South Norwalk, Conn., assignor to Sealshipt Oyster System, Boston, Mass. Oyster-shipping cases. Nos. 86,166–7; Apr. 16; Gaz. vol. 177; p. 766.
Seamless Rubber Company, The, New Haven, Conn. Vehicle-tires. No. 85,620; Feb. 27; Gaz. vol. 175; p. 1095.
Searles Babbitt Co., New York, N. Y. Broadcloths. No. 88,790; Oct. 22; Gaz. vol. 183; p. 1029.
Sears-Cross Company, New York, N. Y. Speed, distance, and revolution indicators and recorders. No. 87,666; July 30; Gaz. vol. 180; p. 1389.
Sears, Roebuck and Co., Chicago, Ill. Stoves. No. 85,045; Jan. 23; Gaz. vol. 174; p. 1023.
Sears, Roebuck and Co., Chicago, Ill. Gasolene-stoves. No. 85,046; Jan. 23; Gaz. vol. 174; p. 1023.
Sears, Roebuck and Co., Chicago, Ill. Boots and shoes. No. 85,502; Feb. 20; Gaz. vol. 175; p. 840.
Sears, Roebuck and Co., Chicago, Ill. Tobacco-pipes. No. 85,833; Mar. 19; Gaz. vol. 176; p. 746.
Sears, Roebuck and Co., Chicago, Ill. Mixed paints. No. 85,921; Mar. 26; Gaz. vol. 176; p. 1067.
Sears, Roebuck and Co., Chicago, Ill. Children's shoes. No. 88,372; Sept. 10; Gaz. vol. 182; p. 507.
Seat Brothers, Hugo, Okla. Remedy for consumption. No. 84,757; Jan. 2; Gaz. vol. 174; p. 284.
Sedgwick Machine Works, New York, N. Y. Certain named lifting apparatus and elevators. No. 89,299; Dec. 3; Gaz. vol. 185; p. 245.
Seeby Drug Company, New York, N. Y. Hair tonic and pomade. No. 85,621; Feb. 27; Gaz. vol. 175; p. 1095.
Seeman Brothers, New York, N. Y. Canned fruits and vegetables. No. 87,935; Aug. 13; Gaz. vol. 181; p. 537.
Seguin Milling & Power Co., Seguin, Tex. Wheat-flour. No. 86,338; Apr. 30; Gaz. vol. 177; p. 1293.
Seidenberg & Company, New York, N. Y. Cigars. No. 88,963; Oct. 29; Gaz. vol. 183; p. 1305.
Seizi, Shinohara, Tokyo, Japan, assignor to S. Nao, San Francisco, Cal. Remedy for cuts and bruises. No. 88,373; Sept. 10; Gaz. vol. 182; p. 507.
"Selas" Gesellschaft mit beschränkter Haftung, Berlin, Germany. Certain electrical apparatus and supplies. No. 86,095; Apr. 9; Gaz. vol. 177; p. 521.
Seldovia Salmon Company, Seattle, Wash. Canned salmon. No. 87,962; Aug. 13; Gaz. vol. 181; p. 538.
Seligman Distillery Company, The, Cincinnati, Ohio. Whisky. No. 86,624; May 21; Gaz. vol. 178; p. 880.
Selman Bros., Cleveland, Ohio. Water-paints. No. 88,028; Aug. 20; Gaz. vol. 181; p. 817.

Alphabetical list of registrants of trade-marks—Continued.

Semon Bache & Company, New York, N. Y. Certain glassware. No. 87,310; July 9; Gaz. vol. 180; p. 597.
Seneca Chain Company, The, Kent, Ohio. Saddlery and harness hardware. No. 85,012; Jan. 16; Gaz. vol. 174; p. 825.
Senex Company, The, Fort Wayne, Ind. Remedy for constipation. No. 89,154; Nov. 12; Gaz. vol. 184; p. 547.
Serv-Us Pure Food Co. (See Lewis, George, assignor.)
Serv-Us Pure Food Co., Inc., Chicago, Ill. Wheat-flour. No. 86,625; May 21; Gaz. vol. 178; p. 880.
Sester Mfg. Co., East Peoria, Ill. Broadcast distributers, seeders, and seeding-machines. No. 87,263; July 2; Gaz. vol. 180; p. 318.
Seven Grain Food Company of San Deigo, San Deigo, Cal. Certain foods. No. 87,264; July 2; Gaz. vol. 180; p. 318.
Seven Sutherland Sisters, Corp., New York, N. Y. Hair-tonic, face cream and powder, &c. No. 89,706; Dec. 31; Gaz. vol. 185; p. 1376.
Shaffer, Knuland, Boston, Mass. Washcloths, towels, and bath-mats. No. 84,880; Jan. 9; Gaz. vol. 174; p. 581.
Shannon & Mott Company, Des Moines, Iowa. Wheat-flour. No. 85,013; Jan. 16; Gaz. vol. 174; p. 825.
Shannon & Mott Company, Des Moines, Iowa. Wheat-flour and stock food. No. 85,185; Jan. 30; Gaz. vol. 174; p. 1215.
Sharp, Harry, Omaha, Nebr. Writing-paper, envelops, blank books, and tablets. No. 88,525; Sept. 24; Gaz. vol. 182; p. 967.
Shaw, Chas. G., Bloomington, Ind. Parlor game of cards. No. 88,708; Oct. 15; Gaz. vol. 183; p. 778.
Shaw & Co., Alex. D., New York, N. Y. Sherry-wine. No. 87,012; June 18; Gaz. vol. 179; p. 848.
Shaw and Co., F. A., Chicago, Ill. Cotton piece goods. No. 88,792; Oct. 22; Gaz. vol. 183; p. 1029.
Shaw Stocking Company, Lowell, Mass. Hosiery. No. 87,813; Aug. 6; Gaz. vol. 181; p. 262.
Sheahan, Kohn & Co., Chicago, Ill. Suits and overcoats. No. 86,626; May 21; Gaz. vol. 178; p. 880.
Shedd Electric Company, Inc., Roselle Park, N. J. Certain electrical goods. No. 87,667; July 30; Gaz. vol. 180; p. 1389.
Sheldon Dry Goods Company, The, Columbus, Ohio. Sun-hats, shirts, infants' wrappers, &c. No. 89,424; Dec. 10; Gaz. vol. 185; p. 522.
Sheldon-Foster Glass Company. (See Schofield, Charles M., assignor.)
Shellash Compound Co., Delanco, N. J. Abrasive powder. No. 89,207; Nov. 19; Gaz. vol. 184; p. 800.
Sheppard & Co., Isaac A., Philadelphia, Pa. Certain named heating apparatus. No. 89,585; Dec. 24; Gaz. vol. 185; p. 1050.
Sheppard Tank Dept., W. S., Newark, N. J. Gasolene-storage tanks. No. 87,814; Aug. 6; Gaz. vol. 181; p. 262.
Sherman, George W., Akron, Ohio. Vegetable gums for the manufacture of chewing-gum. No. 86,464; May 7; Gaz. vol. 178; p. 316.
Sherwin-Williams Company, The, Cleveland, Ohio. Oil-paint. No. 89,155; Nov. 12; Gaz. vol. 184; p. 547.
Shields, Francis B., Danville, Ill. Remedy for certain skin diseases. No. 88,597; Oct. 1; Gaz. vol. 183; p. 214.
Shinola Company, Rochester, N. Y. Shoe-polish. No. 87,490; July 16; Gaz. vol. 180; p. 875.
Shinola Company, Rochester, N. Y. Shoe-polishing brushes and daubers. No. 87,491; July 16; Gaz. vol. 180; p. 875.
Shiveley, Arnold C., North Manchester, Ind. Hand seed-sower. No. 85,689; Mar. 5; Gaz. vol. 176; p. 270.
Shoe City Novelty Co., Lynn, Mass. Bows for shoes. No. 86,946; June 11; Gaz. vol. 179; p. 569.
Shoenfeld, Bernard, New York, N. Y. Shirt-waists. No. 84,918; Jan. 9; Gaz. vol. 174; p. 582.
Shotwell Mfg. Co., Chicago, Ill. Popcorn coated with candy. No. 89,382; Dec. 10; Gaz. vol. 185; p. 521.
Shredded Wheat Company, The, Niagara Falls, N. Y. Cereal biscuit. No. 85,186; Jan. 30; Gaz. vol. 174; p. 1215.
Shredded Wheat Company, The, Niagara Falls, N. Y. Shredded wheat. No. 89,071; Nov. 5; Gaz. vol. 184; p. 283.
Shults Bread Company, New York, N. Y. Bread. No. 86,096; Apr. 9; Gaz. vol. 177; p. 521.
Sidney and Smith, London, England. Game. No. 85,014; Jan. 16; Gaz. vol. 174; p. 825.
Siegel, Joseph, Detroit, Mich. Corsets. No. 87,565; July 23; Gaz. vol. 180; p. 1134.
Siegel, Joseph, Detroit, Mich. Corsets. No. 88,123; Aug. 27; Gaz. vol. 181; p. 1069.
Siegert & Hijos, Dr. J. G. B., Port of Spain, Trinidad. Cordials. No. 86,097; Apr. 9; Gaz. vol. 177; p. 521.
Siemens-Schuckertwerke Gesellschaft mit beschränkter Haftung, Berlin, Germany. Electric fuse-blocks. Nos. 85,503–5; Feb. 20; Gaz. vol. 175; p. 840.
Sig C. Mayer & Company, Philadelphia, Pa. Cigars. No. 89,479; Dec. 17; Gaz. vol. 185; p. 824.
Signature Company, The, New York, N. Y. Machines for writing a plurality of signatures. No. 87,110; June 25; Gaz. vol. 179; p. 1103.
Silberman, Tanchum, Baltimore, Md. Undershirts and drawers. No. 86,168; Apr. 16; Gaz. vol. 177; p. 766.
Silicate Paint Company J. B. Orr and Company Limited. The, London, England. Water-paint. No. 88,598; Oct. 1; Gaz. vol. 183; p. 214.
Silver & Company, New York, N. Y. Certain hardware and plumbing and steam-fitting supplies. No. 86,833; June 4; Gaz. vol. 179; p. 283.
Silverberg Import Co., New York, N. Y. Hair-nets. Nos. 87,111–13; June 25; Gaz. vol. 179; p. 1103.
Silverberg Import Co., New York, N. Y. Hair-nets. No. 87,374; July 9; Gaz. vol. 180; p. 599.
Silverberg Import Co., New York, N. Y. Hair-nets. No. 89,707; Dec 31; Gaz. vol. 185; p. 1376.
Silverman, William, Philadelphia, Pa. Remedy for gonorrhea. No. 86,245; Apr. 23; Gaz. vol. 177; p. 1040.
Silverstein, Isaac J., New York, N. Y. Cotton and mercerized thread. No. 86,169; Apr. 16; Gaz. vol. 177; p. 766.
Silvex Company, The, Chicago, Ill. Polishing-cloths. Nos. 87,114–15; June 25; Gaz. vol. 179; p. 1103.
Simiansky & Co., M., New York, N. Y. Canvas. No. 86,170; Apr. 16; Gaz. vol. 177; p. 766.
Simon & Plechner, New York, N. Y. Coats, vests, trousers, and overcoats. No. 87,937; Aug. 13; Gaz. vol. 181; p. 537.
Simonds Manufacturing Company, Fitchburg, Mass.; Chicago, Ill.; New York and Lockport, N. Y.; New Orleans, La.; Portland, Oreg.; Seattle, Wash.; San Francisco, Cal.; Montreal, Quebec, and St. John, New Brunswick, Canada, and London, England. Saws. No. 89,509; Dec. 17; Gaz. vol. 185; p. 825.
Simons, Shuttleworth & French Co. Inc., New York, N. Y. Fresh apples. No. 87,938; Aug. 13; Gaz. vol. 181; p. 537.
Simonson, Firm of A., New York, N. Y. False hair in certain named forms. No. 88,965; Oct. 29; Gaz. vol. 183; p. 1305.
Simonsson, Wilhelm, New York, N. Y. Weighing-scales. No. 87,668; July 30; Gaz. vol. 180; p. 1389.
Simplex Electrical Co., The, Boston, Mass. Insulated wire. No. 86,627; May 21; Gaz. vol. 178; p. 880.
Simplex Electrical Co., The, Boston, Mass. Insulated electric conductors. No. 87,265; July 2; Gaz. vol. 180; p. 318.
Simplex Filing Device Company, Canton, Ohio. Office filing-cabinets. No. 85,506; Feb. 20; Gaz. vol. 175; p. 840.
Simpson, Frank P., Norfolk, Va. Salves. No. 86,246; Apr. 23; Gaz. vol. 177; p. 1040.
Simpson Sons & Co., Wm., Philadelphia, Pa.; New York, N. Y.; Baltimore, Md.; Chicago, Ill., and St. Louis, Mo. Dyed or printed sateens. No. 88,375; Sept. 10; Gaz. vol. 182; p. 507.
Simson & Frey, (Inc.), New York, N. Y. Violins. No. 88,966; Oct. 29; Gaz. vol. 183; p. 1305.
Simson, Joseph. (See Kennedy, William, assignor.)
Simson, Joseph, New York, N. Y. Insecticides. No. 87,566; July 23; Gaz. vol. 180; p. 1134.
Singer Brothers, Jersey City, N. J. All kinds of candies. No. 85,187; Jan. 30; Gaz. vol. 174; p. 1215.
Singer, Schaffer & Co., Chicago, Ill. Hair-nets. No. 88,793; Oct. 22; Gaz. vol. 183; p. 1029.
Sioux City Brewing Co., Sioux City, Iowa. Lager-beer. No. 89,156; Nov. 12; Gaz. vol. 184; p. 547.
Siphon Credit System Company, Cleveland, Ohio. Blank books, blank and printed forms, and adhesive stamps. No. 88,526; Sept. 24; Gaz. vol. 182; p. 967.
Sirubin-Werke G. m. b. H., Berlin, Germany. Emery, emery wheels, cloth, and paper. No. 86,834; June 4; Gaz. vol. 179; p. 283.
Sixeas Poultry & Stock Remedies Co., Inc., New Castle, Va. Remedies for certain named diseases and affections of fowls. No. 89,157; Nov. 12; Gaz. vol. 184; p. 547.
Skinner, Harry A., New York, N. Y. Certain toilet preparations. No. 85,015; Jan. 16; Gaz. vol. 174; p. 825.
Skinner, Lee B., Dunedin, Fla. Oranges, lemons, grapefruit, tangerines, and limes. Nos. 86,466–8; May 7; Gaz. vol. 178; p. 316.
Skinner Mfg. Co., Omaha, Nebr. Macaroni. No. 88,527; Sept. 24; Gaz. vol. 182; p. 967.
Sleeper, Frederick L., Chicago, Ill. Roman gold paint. No. 85,188; Jan. 30; Gaz. vol. 174; p. 1215.
Sligo Iron & Steel Co., Connellsville, Pa. Wrought-iron. No. 85,716; Mar. 5; Gaz. vol. 176; p. 271.
Small, John S., Detroit, Mich. Automobiles. No. 85,622; Feb. 27; Gaz. vol. 175; p. 1095.
Smith, Author M., Minneapolis, Minn. Whisky and brandy. No. 88,427; Sept. 17; Gaz. vol. 182; p. 718.
Smith, Author M., Minneapolis, Minn. Port and sherry wines. No. 88,428; Sept. 17; Gaz. vol. 182; p. 718.
Smith Chemical Co., Athens, Ga. Remedy for gonorrhea and gleet. No. 85,189; Jan. 30; Gaz. vol. 174; p. 1215.
Smith & Co., E. R., Boston, Mass. Men's suits and overcoats. No. 86,098; Apr. 9; Gaz. vol. 177; p. 521.
Smith & Company, Frank W., Birmingham, Ala. Hats. No. 87,267; July 2; Gaz. vol. 180; p. 318.
Smith & Egge Mfg. Co., The, Bridgeport, Conn. Sheet-metal chains. No. 86,628; May 21; Gaz. vol. 178; p. 880.

Alphabetical list of registrants of trade-marks—Continued.

Smith & Hemenway Company, New York, N. Y. Certain named cutlery, tools, and parts thereof. No. 87,669; July 30; Gaz. vol. 180; p. 1389.
Smith & Hemenway Company, New York, N. Y. Electrical connectors and spark-plugs. No. 87,670; July 30; Gaz. vol. 180; p. 1389.
Smith, James T., Newark, N. J. Leather. No. 87,939; Aug. 13; Gaz. vol. 181; p. 538.
Smith, John B., Point Pleasant, W. Va. Remedy for certain diseases. No. 87,567; July 23; Gaz. vol. 180; p. 1134.
Smith, Kate, Denver, Colo. Toilet wash. No. 87,266; July 2; Gaz. vol. 180; p. 318.
Smith, Kline & French Company, Philadelphia, Pa. Vanity-box. No. 85,774; Mar. 12; Gaz. vol. 176; p. 522.
Smith, Kline & French Company, Philadelphia, Pa. Perfume and talcum powder. No. 87,013; June 18; Gaz. vol. 179; p. 848.
Smith Lockwood Mfg. Co., Westfield, Mass., and Omaha, Nebr. Whips. No. 88,124; Aug. 27; Gaz. vol. 181; p. 1069.
Smith Milling and Grain Company, Warsaw, Ind. Wheat-flour. No. 87,116; June 25; Gaz. vol. 179; p. 1103.
Smith & Son Co., Lee S., Pittsburgh, Pa. Dental and surgical cabinets, operating-stools, &c. No. 85,047; Jan. 23; Gaz. vol. 174; p. 1023.
Smith-Stilwell Co., The, Detroit, Mich. Emulsion of cod-liver oil. No. 85,190; Jan. 30; Gaz. vol. 174; p. 1215.
Smith Webbing Company, Pawtucket, R. I. Belts for men's apparel. No. 87,940; Aug. 13; Gaz. vol. 181; p. 538.
Smith, Winfield S., Kingman, Me. Horse-collars. No. 87,568; July 23; Gaz. vol. 180; p. 1134.
Smooth-On Manufacturing Company, Jersey City, N. J. Liquid iron compound. No. 85,191; Jan. 30; Gaz. vol. 174; p. 1215.
Sneierson, Samuel L., Boston, Mass. Button-fasteners. No. 88,967; Oct. 29; Gaz. vol. 183; p. 1305.
Snitzler, James M., Chicago, Ill. Powder for treatment of the skin. No. 87,569; July 23; Gaz. vol. 180; p. 1134.
Snow-Man Products Co., Escanaba, Mich. Chewing-gum. No. 85,016; Jan. 16; Gaz. vol. 174; p. 825.
Snyder-Chaffee Co., The, Columbus, Ohio. Popcorn and foam candy. No. 86,341; Apr. 30; Gaz. vol. 177; p. 1293.
Società Anonima Milano-Films, Bovisa, near Milan, Italy. Kinematograph-films. No. 89,511; Dec. 17; Gaz. vol. 185; p. 825.
Societe Anonyme de la Stearinerie H. Bollinckx en liquidation, Brussels, Belgium. Candles, stearin, olein. No. 89,709; Dec. 31; Gaz. vol. 185; p. 1376.
Société Anonyme des Celluloses Planchon, Lyon, France. Photographic chemicals. No. 86,835; June 4; Gaz. vol. 179; p. 283.
Société Anonyme Des Usines Remy, Wijgmael, Belgium. Starch. No. 86,947; June 11; Gaz. vol. 179; p. 569.
Société Anonyme La Maya Bulgare, Paris, France. Bulgarian curdled milk. No. 86,470; May 7; Gaz. vol 178; p. 316.
Société Anonyme Le Khédive, Brussels, Belgium, and Paris, France. Cigarettes. No. 85,507; Feb. 20; Gaz. vol. 175; p. 840.
Société Anonyme R. Béziers & Cie., Douarnenez, France. Canned sardines. No. 87,492; July 16; Gaz. vol. 180; p. 875.
Société Anonyme Utocolor, La Garenne Colombes, France. Papers for photographs. No. 87,672; July 30; Gaz. vol. 180; p. 1389.
Société Chimique Des Usines Du Rhône, Anct. Gilliard, P. Monnet & Cartier, Paris, France. Certain acids and pharmaceutical preparations. No. 88,212; Sept. 3; Gaz. vol. 182; p. 245.
Société des Etablissements Farcy & Oppenheim, Paris, France. Corsets. No. 85,508; Feb. 20; Gaz. vol. 175; p. 840.
Société des Moteurs Gnome, Paris, France. Flying-machines and parts thereof. No. 85,381; Feb. 13; Gaz. vol. 175; p. 539.
Société du Verre Triplex, Paris, France. Reinforced glass. No. 88,125; Aug. 27; Gaz. vol. 181; p. 1069.
Societe Francaise des Films et Cinematographs Eclair, New York, N. Y. Moving-picture films. No. 89,300; Dec. 3; Gaz. vol. 185; p. 245.
Societe Francaise des Films et Cinematographs Eclair, New York, N. Y. Moving-picture films. No. 89,385; Dec. 10; Gaz. vol. 185; p. 521.
Société le Dioradin, Geneva, Switzerland. Radium-iodin-terpene preparation. No. 88,029; Aug. 20; Gaz. vol. 181; p. 817.
Société par actions pour le commerce de thé К и С Popoff Frères Moscou, Moscow, Russia. Tea. No. 86,471; May 7; Gaz. vol. 178; p. 316.
Society of Chemical Industry in Basle, Basel, Switzerland. Coal-tar colors. No. 87,014; June 18; Gaz. vol. 179; p. 848.
Society of Chemical Industry in Basle, Basel, Switzerland. Certain pharmaceutical preparation. Nos. 87,015–16; June 18; Gaz. vol. 179; p. 848.
Society of Chemical Industry in Basle, Basel, Switzerland. Certain named pharmaceutical product. No. 88,376; Sept. 10; Gaz. vol. 182; p. 507.
Society of Chemical Industry in Basle, Basel, Switzerland. Coal-tar colors. No. 88,377; Sept. 10; Gaz. vol. 182; p. 507.
Söderfors Bruks Aktiebolag, Falun, Sweden. Tool-steel. Nos. 86,099–101; Apr. 9; Gaz. vol. 177; p. 521.
Söderfors Bruks Aktiebolag, Falun, Sweden. Tool-steel and anvils. No. 86,102; Apr. 9; Gaz. vol. 177; p. 521.
Söderfors Bruks Aktiebolag, Falun, Sweden. Tool-steel. No. 86,103; Apr. 9; Gaz. vol. 177; p. 521.
Söderfors Bruks Aktiebolag, Falun, Sweden. Anvils. No. 86,104; Apr. 9; Gaz. vol. 177; p. 521.
Soennecken, F., Bonn, Germany. Certain stationery material. No. 87,673; July 30; Gaz. vol. 180; p. 1389.
Sohmer & Company, New York, N. Y. Pianos. No. 85,382; Feb. 13; Gaz. vol. 175; p. 539.
Sohmer & Company, New York, N. Y. Pianos. No. 85,691; Mar. 5; Gaz. vol. 176; p. 270.
Sökeland Gebr., Wandsbek, near Hamburg, Germany. Canned fruits. No. 84,882; Jan. 9; Gaz. vol. 174; p. 581.
"Solo" Zündwaren- und Wichse-Fabriken Act. Ges., Vienna, Austria-Hungary. Matches. No. 85,775; Mar. 12; Gaz. vol. 176; p. 522.
"Solo" Zündwaren- und Wichse-Fabriken Act. Ges., Vienna, Austria-Hungary. Matches. No. 87,268; July 2; Gaz. vol. 180; p. 318.
Solomon & Co., K., Pittsburgh, Pa. Hosiery. No. 89,208; Nov. 19; Gaz. vol. 184; p. 800.
Soltmann, Edward G., New York, N. Y. Envelops. No. 88,378; Sept. 10; Gaz. vol. 182; p. 507.
Solva Waterproof Glue Co., Chicago, Ill. Glue. No. 86,247; Apr. 23; Gaz. vol. 177; p. 1040.
Solvay Process Company, The, Solvay, N. Y. Certain chemicals and pharmaceutical preparations. No. 88,968; Oct. 29; Gaz. vol. 183; p. 1305.
Somers, Harold, Brooklyn, N. Y. Chemical preparation and devices for killing flies. No. 86,472; May 7; Gaz. vol. 178; p. 316.
Sommer, Heinrich C., Nachfolger, Dusseldorf, Germany. Packing for stuffing-boxes. No. 85,472; Feb. 20; Gaz. vol. 175; p. 839.
Sommers, Alfred L., Tacoma, Wash. Magazine. No. 87,674; July 30; Gaz. vol. 180; p. 1389.
Sommers Bros. Match Co., Saginaw, Mich. Matches. Nos. 87,269–70; July 2; Gaz. vol. 180; p. 319.
Sonneborn & Co., Henry, Baltimore, Md. Certain garments worn by boys, men, and children. No. 85,292; Feb. 6; Gaz. vol. 175; p. 261.
Sophos, Emmanuel G., Lowell, Mass. Olive-oil. No. 88,528; Sept. 24; Gaz. vol. 182; p. 967.
Sorley, John, Feilding, New Zealand. Chemical composition for destroying blight, &c., on plants. No. 86,106; Apr. 9; Gaz. vol. 177; p. 521.
Sossidi frères de Constantinople, Hamburg, Germany. Tobacco, cigarettes, and cigars. No. 88,213; Sept. 3; Gaz. vol. 182; p. 245.
Soulis & Sulis, Newton, Mass. Teas. No. 84,883; Jan. 9; Gaz. vol. 174; p. 581.
Sours, Pearl A., Kansas City, Mo. Certain toilet preparations. No. 85,192; Jan. 30; Gaz. vol. 174; p. 1215.
South Bend Bait Co., South Bend, Ind. Certain named sporting goods. No. 89,384; Dec. 10; Gaz. vol. 185; p. 521.
South Lake Apopka Citrus Growers Association, Oakland, Fla. Oranges, lemons, grape-fruit, tangerines, and limes. No. 86,342; Apr. 30; Gaz. vol. 177; p. 1293.
South Metropolitan Gas Company, London, England. Sulfate of ammonia used for fertilizers. No. 88,969; Oct. 29; Gaz. vol. 183; p. 1305.
Southall Bros. & Barclay, Limited, Birmingham, England. Tonic food. No. 86,249; Apr. 23; Gaz. vol. 177; p. 1040.
Southern California Fish Company, Los Angeles, Cal. Canned fish. No. 85,017; Jan. 16; Gaz. vol. 174; p. 825.
Southern Mills Corporation, Oxford, Ala. Rope, rope yarns, twines, cords, &c. No. 88,794; Oct. 22; Gaz. vol. 183; p. 1029.
Southwestern Broom & Warehouse Co., The, Wichita, Kans. Brooms. No. 86,672; May 21; Gaz. vol. 178; p. 882.
Southwestern Medicine Co., Houston Heights, Tex. Remedies for certain ailments. No. 86,836; June 4; Gaz. vol. 179; p. 283.
Southwestern Milling Company, The, Jersey City, N. J., and Kansas City, Mo. Wheat-flour. No. 87,271; July 2; Gaz. vol. 180; p. 319.
Southwestern Milling Company, The, Jersey City, N. J., and Kansas City, Mo. Wheat-flour. No. 88,379; Sept. 10; Gaz. vol. 182; p. 507.
Southwestern Milling Company, The, Jersey City, N. J., and Kansas City, Mo. Wheat-flour. No. 89,587; Dec. 24; Gaz. vol. 185; p. 1051.
Soyer, Nicolas, London, England. Cooking-paper. No. 88,380; Sept. 10; Gaz. vol. 182; p. 507.
Speck Chocolate Company, Evansville, Ind. Candy. No. 85,510; Feb. 20; Gaz. vol. 175; p. 840.

Alphabetical list of registrants of trade-marks—Continued.

Speer, William, London, England. Tooth-brushes. No. 87,273; July 2; Gaz. vol. 180; p. 319.
Speights Limited, Dewsbury, England. Materials used as imitation human hair and doll's hair. No. 87,816; Aug. 6; Gaz. vol. 181; p. 262.
Spenard, Ernest, Biddeford, Me. Hair-tonic. No. 87,570; July 23; Gaz. vol. 180; p. 1134.
Spencer Heater Company, Scranton, Pa. Heaters and parts thereof. No. 87,817; Aug. 6; Gaz. vol. 181; p. 262.
Spencer Heater Company, Scranton, Pa. Steam and hot-water heaters and parts thereof. No. 89,512; Dec. 17; Gaz. vol. 185; p. 825.
Spirella Company, The, Meadville, Pa. Surgical bandages, surgical, sanitary, and abdominal belts. No. 85,048; Jan. 23; Gaz. vol. 174; p. 1023.
Spirella Company, The, Meadville, Pa. Certain clothing. No. 85,193; Jan. 30; Gaz. vol. 174; p. 1215.
Spirella Company, The, Meadville, Pa. Certain fancy goods. No. 85,384; Feb. 13; Gaz. vol. 175; p. 539.
Spirella Company, Meadville, Pa. Surgical bandages, surgical, sanitary, and abdominal belts. No. 86,560; May 14; Gaz. vol. 178; p. 588.
Spokane Valley Orchard & Land Co., Spokane Bridge, Wash. Fresh apples. No. 89,072; Nov. 5; Gaz. vol. 184; p. 283.
Spokane Valley Orchard & Land Co., Spokane Bridge, Wash. Fresh apples. No. 89,386; Dec. 10; Gaz. vol. 185; p. 521.
Spool Cotton Company, Newark, N. J., and New York, N. Y. Cotton thread and yarn. Nos. 84,758–60; Jan. 2; Gaz. vol. 174; p. 284.
Sprague Electric Company, Bloomfield, N. J., and New York, N. Y. Electric fans. No. 88,214; Sept. 3; Gaz. vol. 182; p. 245.
Sprague, Warner & Company, Chicago, Ill., assignor to James McCord Company, Fort Worth, Tex. Canned fruits, vegetables, and fish. No. 85,692; Mar. 5; Gaz. vol. 176; p. 270.
Spratt's Patent, Limited, London, England. Dog-biscuits. No. 87,941; Aug. 13; Gaz. vol. 181; p. 538.
St. Amant, Lucy, Baton Rouge, La. Remedies for skin and blood diseases, cuts, and wounds. No. 84,761; Jan. 2; Gaz. vol. 174; p. 284.
St. Charles Condensing Company, St. Charles, Ill. Evaporated milk. No. 87,120; June 25; Gaz. vol. 179; p. 1103.
St. Louis Coffee & Spice Mills, St. Louis, Mo. Blended coffee. Nos. 87,932–3; Aug. 13; Gaz. vol. 181; p. 537.
St. Louis Coffee & Spice Mills, St. Louis, Mo. Blended coffee. Nos. 88,381–2; Sept. 10; Gaz. vol. 182; p. 507.
St. Louis Coffee & Spice Mills, St. Louis, Mo. Blended coffee. No. 88,970; Oct. 29; Gaz. vol. 183; p. 1305.
St. Paul Show Case Manufacturing Co., St. Paul, Minn. Refrigerators. No. 86,473; May 7; Gaz. vol. 178; p. 316.
St. Paul Syrup Refining Company, St. Paul, Minn. Mixture of maple-sugar, cane-sugar, and corn-syrup. No 86,345; Apr. 30; Gaz. vol. 177; p. 1293.
Stafolife Feed & Milling Co. Ltd., New Orleans, La. Stock feed. Nos. 86,948–50; June 11; Gaz. vol. 179; p. 569.
Stamatopoulos, Stamatis D., New York, N. Y. Cigars and cigarettes. No. 89,710; Dec. 31; Gaz. vol. 185; p. 1376.
Standard Chemical Company, The, Kansas City, Mo. Tire filling compound. No. 89,387; Dec. 10; Gaz. vol. 185; p. 521.
Standard Cigar Company, The, Canton, Ohio. Cigars. No. 87,818; Aug. 6; Gaz. vol. 181; p. 262.
Standard Earth Auger Co., Chicago, Ill. Earth-augers. No. 88,030; Aug. 20; Gaz. vol. 181; p. 816.
Standard Fruit Co., The, Pulaski, Pa. Pineapples, oranges, grape-fruit, and lemons. No. 85,776; Mar. 12; Gaz. vol. 176; p. 522.
Standard Lubricant Co., New York, N. Y. Lubricating oil and grease. No. 88,796; Oct. 22; Gaz. vol. 183; p. 1029.
Standard Manufacturing Company, Cedar Falls, Iowa. Metal gates and parts thereof. No. 89,158; Nov. 12; Gaz. vol. 184; p. 547.
Standard Manufacturing Company, Cedar Falls, Iowa. Corn-graders and concrete-mixers. No. 89,159; Nov. 12; Gaz. vol. 184; p. 547.
Standard Oil Cloth Co., New York, N. Y. Oil-cloths. Nos. 87,274–6; July 2; Gaz. vol. 180; p. 319.
Standard Oil Cloth Co., New York, N. Y. Oil-cloth. No. 87,571; July 23; Gaz. vol. 180; p. 1134.
Standard Oil Co. of New York, New York, N. Y. Refined oil for illuminating, heating, &c. No. 86,018; Apr. 2; Gaz. vol. 177; p. 237.
Standard Oil Co. of New York, New York, N. Y. Illuminating-oils. No. 87,018; June 18; Gaz. vol. 179; p. 848.
Standard Oil Co. of New York, New York, N. Y. Illuminating-oils. No. 87,118; June 25; Gaz. vol. 179; p. 1103.
Standard Oil Co. of New York, New York, N. Y. Petroleum. Nos. 87,675–6; July 30; Gaz vol. 180; p. 1389.
Standard Oil Co. of New York, New York, N. Y. Refined petroleum. No. 88,127; Aug. 27; Gaz. vol. 181; p. 1069.
Standard Oil Co. of New York, New York, N. Y. Illuminating-oils. No. 88,529; Sept. 24; Gaz. vol. 182; p. 967.
Standard Oil Company of New York, New York, N. Y. Lubricating-oils. No. 85,194; Jan. 30; Gaz. vol. 174; p. 1215.
Standard Oil Company of New York, New York, N. Y. Naphtha. No. 87,017; June 18; Gaz. vol. 179; p. 848.
Standard Oil Company of New York, New York, N. Y. Petroleum for illuminating, heating, and power purposes. No. 87,117; June 25; Gaz. vol. 179; p. 1103.
Standard Oil Company of New York, New York, N. Y. Petroleum for illuminating, heating, and power purposes. No. 87,278; July 2; Gaz. vol. 180; p. 319.
Standard Oil Company of New York, New York, N. Y. Benzin, naphtha, and gasolene. No. 89,301; Dec. 3; Gaz. vol. 185; p. 245.
Standard Oil Company of New York, New York, N. Y. Refined oil. No. 89,513; Dec. 17; Gaz. vol. 185; p. 825.
Standard Oil Company, Bayonne, N. J. Lubricating-oils. No. 85,922; Mar. 26; Gaz. vol. 176; p. 1067.
Standard Oil Company, Bayonne, N. J. Oil for lighting, heating, and power purposes. Nos. 86,951–2; June 11; Gaz. vol. 179; p. 569.
Standard Oil Company, Bayonne, N. J. Gasolene and naphtha. No. 86,953; June 11; Gaz. vol. 179; p. 569.
Standard Oil Company, Bayonne, N. J. Benzin. No. 86,954; June 11; Gaz. vol. 179; p. 569.
Standard Oil Company, Bayonne, N. J. Naphtha. Nos. 86,955–6; June 11; Gaz. vol. 179; p. 569.
Standard Oil Company of Brazil, New York, N. Y. Refined oil. No. 86,737; May 28; Gaz. vol. 178; p. 1148.
Standard Oil Company of Brazil, New York, N. Y. Naphtha, gasolene, and benzin. No. 87,277; July 2; Gaz. vol. 180; p. 319.
Standard Oil Company of Brazil, New York, N. Y. Oil stoves, lamps, and heaters. No. 87,376; July 9; Gaz. vol. 180; p. 599.
Standard Oil Leather Dressing Co., New York, N. Y. Leather preserving and water proofing composition. Nos. 85,511–12; Feb. 20; Gaz. vol. 175; p. 840.
Standard Oil Leather Dressing Company, Trenton, N. J. Certain abrasive, detergent, and polishing materials. No. 86,673; May 21; Gaz. vol. 178; p. 882.
Standard Optical Company, Geneva, N. Y. Machines for manufacturing, finishing, adjusting, and testing lenses. No. 85,885; Mar. 26; Gaz. vol. 176; p. 1066.
Standard Paint Company, Boundbrook, N. J., and New York, N. Y. Certain construction material. No. 87,279; July 2; Gaz. vol. 180; p. 319.
Standard Playing Card Co., Chicago, Ill. Playing-cards. No. 87,495; July 16; Gaz. vol. 180; p. 876.
Standard Rubber & Cable Co., The, Bridgeport, Conn. Adhesive cement. No. 87,375; July 9; Gaz. vol. 180; p. 599.
Standard Rule Co., Flint, Mich. Steel tapes and parts thereof. No. 86,173; Apr. 16; Gaz. vol. 177; p. 766.
Standard Soap Company, The, West Berkeley, Cal. Toilet soap. No. 88,642; Oct. 8; Gaz. vol. 183; p. 500.
Standard Typewriter Company, Groton, N. Y. Type-writing machines and parts thereof. No. 86,343; Apr. 30; Gaz. vol. 177; p. 1293.
Standard Underground Cable Company, Pittsburgh, Pa. Insulation for electrical conductors. No. 86,174; Apr. 16; Gaz. vol. 177; p. 766.
Standard Varnish Works, New York, N. Y. Coater for cement, concrete, &c. No. 85,195; Jan. 30; Gaz. vol. 174; p. 1215.
Standard Varnish Works, New York, N. Y. Face liquid for use as a sealing coat over metal or wood primers. No. 85,196; Jan. 30; Gaz. vol. 174; p. 1215.
Standard Varnish Works, New York, N. Y. Enamels, paints, and varnishes. No. 87,942; Aug. 13; Gaz. vol. 181; p. 538.
Standard Varnish Works, New York and Port Richmond, N. Y. Enamels, paints, varnishes, &c. No. 88,709; Oct. 15; Gaz. vol. 183; p. 778.
Standard Varnish Works, New York, N. Y. Liquid filler for certain uses on hard and soft woods. No. 89,514; Dec. 17; Gaz. vol. 185; p. 825.
Standard Varnish Works, New York and Port Richmond, N. Y. Enamels, paints, varnishes, and varnish-removers. No. 89,711; Dec. 31; Gaz. vol. 185; p. 1376.
Stanley, John T., New York, N. Y. Toilet soap. No. 88,530; Sept. 24; Gaz. vol. 182; p. 967.
Star Milling Co., Nicholasville, Ky. Wheat-flour. No. 87,943; Aug. 13; Gaz. vol. 181; p. 538.
Star Rubber Co., The, Akron, Ohio. Certain dental, medical, and surgical appliances. Nos. 86,738–41; May 28; Gaz. vol. 178; p. 1148.
Star Rubber Co., The, Akron, Ohio. Certain dental, medical, and surgical appliances. No. 86,749; May 28; Gaz. vol. 178; p. 1149.
Star Rubber Co., The, Akron, Ohio. Chair-tips. No. 86,957; June 11; Gaz. vol. 179; p. 569.
Star Rubber Co., Akron, Ohio. Tobacco-pouches. No. 86,958; June 11; Gaz. vol. 179; p. 570.
Star Rubber Co., Akron, Ohio. Rubber gloves and bath-caps. Nos. 88,797 9; Oct. 22; Gaz. vol. 183; p. 1029.
Star Rubber Co., The, Akron, Ohio. Camera bulb outfits. No. 89,073; Nov. 5; Gaz. vol. 184; p. 283.
Star Rubber Co., The, Akron, Ohio. Household rubber gloves and bath-caps. Nos. 89,388–9; Dec. 10; Gaz. vol. 185; p. 521.

Alphabetical list of registrants of trade-marks—Continued.

Star Rubber Co., Akron, Ohio. Foot-ball bladders, toy balloons, &c. No. 89,390; Dec. 10; Gaz. vol. 185; p. 521.
Star Seal Company, New York, N. Y. Metallic bottle-seals. No. 86,172; Apr. 16; Gaz. vol. 177; p. 766.
Starke's Dixie Plow Works, Incorporated, Richmond, Va. Plows. No. 85,513; Feb. 20; Gaz. vol. 175; p. 840.
Starke's Dixie Plow Works, Inc., Richmond, Va. Plows. No. 87,119; June 25; Gaz. vol. 179; p. 1103.
Starke's Dixie Plow Works, Inc., Richmond, Va. Plows. No. 87,677; July 30; Gaz. vol. 180; p. 1389.
Start-O Company, The, Cleveland, Ohio. Engine-starting device. No. 86,742; May 28; Gaz. vol. 178; p. 1149.
Statter, H., Sioux City, Iowa. Hams, bacon, lard, and sausage. No. 86,344; Apr. 30; Gaz. vol. 177; p. 1293.
Ste. Ame. Pour Le Commerce & L'Industrie Du Caoutchouc, Brussels, Belgium. Rubber toy balloons, toys, and dolls. No. 87,377; July 9; Gaz. vol. 180; p. 599.
Stebbins, Martha J., Churchville, N. Y. Scalp-tonic. No. 84,919; Jan. 9; Gaz. vol. 174; p. 582.
Stebbins, Martha J., Churchville, N. Y. Remedy for catarrh and colds in head. No. 85,197; Jan. 30; Gaz. vol. 174; p. 1215.
Steele, Anna A., Kansas City, Mo. Cake-mold. No. 88,599; Oct. 1; Gaz. vol. 183; p. 214.
Steinberg, Ludwig, New York, N. Y. Fountain-pens. No. 87,572; July 23; Gaz. vol. 180; p. 1134.
Steinberg, Norman L., Chicago, Ill. Belting, hose, machinery packing, and non-metallic tires. No. 87,121; June 25; Gaz. vol. 179; p. 1103.
Steinberger & Kalisher, New York, N. Y. Gloves. No. 86,175; Apr. 16; Gaz. vol. 177; p. 766.
Steiner, Rosenstein & Traub, New York, N. Y., assignor to Rosenstein & Traub. Veilings, nettings, malines, chiffons, and veils. No. 86,108; Apr. 9; Gaz. vol. 177; p. 521.
Steinhardt Bros. & Co., New York, N. Y. Certain named wines. No. 88,129; Aug. 27; Gaz. vol. 181; p. 1069.
Stenhouse, Wm., Glasgow, Scotland. Whisky. No. 89,391; Dec. 10; Gaz. vol. 185; p. 521.
Stephen Putney Shoe Company, Richmond, Va. Leather boots and shoes. No. 85,488; Feb. 20; Gaz. vol. 175; p. 839.
Stephens, Charles I., Chicago, Ill. Remedy for sweaty, swollen, &c., feet. No. 86,250; Apr. 23; Gaz. vol. 177; p. 1040.
Stephens, Samuel, Boston, Mass. Spaces and quadrats. No. 89,515; Dec. 17; Gaz. vol. 185; p. 825.
Sterling Chocolate Company, The, Cincinnati, Ohio. Candies. Nos. 88,216–17; Sept. 3; Gaz. vol. 182; p. 245.
Sterling Health Food Company, Sterling, Ill. Laxative breakfast food. No. 88,429; Sept. 17; Gaz. vol. 182; p. 718.
Stern Bros. & Company, New York, N. Y. Collar-buttons of precious metal. No. 85,385; Feb. 13; Gaz. vol. 175; p. 539.
Sterngold, Jacob M., New York, N. Y. Dresses. No. 89,712; Dec. 31; Gaz. vol. 185; p. 1376.
Stetson-Barret Co., Los Angeles, Cal. Canned vegetables and coffee. No. 85,293; Feb. 6; Gaz. vol. 175; p. 261.
Stevens, Bessie E., Chicago, Ill. Blood-purifier and tonic. No. 84,762; Jan. 2; Gaz. vol. 174; p. 284.
Stevens & Company, Incorporated, Providence, R. I. Eyeglasses and spectacles and parts of same. No. 85,294; Feb. 6; Gaz. vol. 175; p. 261.
Stevens, Frank, New York, N. Y. Awnings and tents. No. 87,496; July 16; Gaz. vol. 180; p. 876.
Stevenson & Son., Ltd., Dungannon, Ireland. Linen piece goods. No. 87,122; June 25; Gaz. vol. 179; p. 1103.
Stewart, Charles A., Somersworth, N. H. Cotton piece goods. No. 86,743; May 28; Gaz. vol. 178; p. 1149.
Stewart & Clark Manufacturing Company, Chicago, Ill. Speed-indicating instruments. No. 86,005; Apr. 2; Gaz. vol. 177; p. 237.
Stewart & Holmes Drug Company, Seattle, Wash. Tanks for chemical fluids. No. 86,474; May 7; Gaz. vol. 178; p. 316.
Stickney & Poor Spice Company, Boston, Mass. Mustard. No. 85,198; Jan. 30; Gaz. vol. 174; p. 1215.
Stiefel, Albert F., Pittsburgh, Pa. Remedy for sore throat. No. 88,383; Sept. 10; Gaz. vol. 182; p. 507.
Stiles Brothers, Parkersburg, W. Va. Lubricating-oils. No. 89,516; Dec. 17; Gaz. vol. 185; p. 825.
Stillman Bottling Company, Boston, Mass. Vodka. Nos. 85,514–15; Feb. 20; Gaz. vol. 175; p. 840.
Stimpson Scale & Electric Co., The, Northville, Mich. Platform-scales. Nos. 86,631–2; May 21; Gaz. vol 178; p. 881.
Stockwell-Haley Co., Los Angeles, Cal. Mattresses. No. 84,765; Jan. 2; Gaz. vol. 174; p. 284.
Stohr, Dr. Franz, Vienna, Austria-Hungary. Concentrated nutritive preparation of milk and iron. No. 89,392; Dec. 10; Gaz. vol. 185; p. 521.
Stoll, Corus D., Kansas City, Mo. Refrigerators. No. 86,561; May 14; Gaz. vol. 178; p. 588.
Stollenwerck, Augustus G., Baltimore, Md. Medicine for certain diseases. No. 88,710; Oct. 15; Gaz. vol. 183; p. 778.
Stollwerck Brothers, Inc., Stamford, Conn., and New York, N. Y. Chocolates and cocoa. No. 86,633; May 21; Gaz. vol. 178; p. 881.
Stone, Galen L., *et al.*, trustees. (See Amoskeag Manufacturing Company, assignor.)
Stone Motion Picture Company, Sapulpa, Okla. Moving-picture films. No. 89,074; Nov. 5; Gaz. vol. 184; p. 283.
Stone Ordean Wells Company, Duluth, Minn. Coffee. No. 86,762; May 28; Gaz. vol. 178; p. 1149.
Stone Printing & Mfg. Co., Roanoke, Va. Calendars. No. 85,386; Feb. 13; Gaz. vol. 175; p. 539.
Stoneman & Son, M. G., Albany, N. Y. Certain paints. No. 87,678; July 30; Gaz. vol. 180; p. 1389.
Stork Company, Boston, Mass. Soap. No. 88,531; Sept. 24; Gaz. vol. 182; p. 967.
Storz Brewing Co., Omaha, Nebr. Beer. No. 85,886; Mar. 26; Gaz. vol. 176; p. 1066.
Stossel & Company, Carl, Front Royal, Va. Hickory hammer and hatchet handles. No. 88,643; Oct. 8; Gaz. vol. 183; p. 500.
Stoughton, John A., South Windsor, Conn. Certain foods. No. 86,960; June 11; Gaz. vol. 179; p. 570.
Strasbaugh, Harry P., Aberdeen, Md. Canned corn. No. 88,971; Oct. 29; Gaz. vol. 183; p. 1305.
Strasbaugh, Harry P., Aberdeen, Md. Canned fruits, vegetables, and oysters. No. 89,302; Dec. 3; Gaz. vol. 185; p. 245.
Straus, Bodenheimer Saddlery Co., Houston, Tex. Horse-collars. No. 86,961; June 11; Gaz. vol. 179; p. 570.
Strause, Louis J., Philadelphia, Pa. Sad-irons. No. 85,387; Feb. 13; Gaz. vol. 175; p. 539.
Street, Daniel B., Washington, D. C. Medicinal tablets. No. 84,920; Jan. 9; Gaz. vol. 174; p. 582.
Striewig, William, York Haven, Pa. Preventive for San Jose scale, borers, &c. No. 89,713; Dec. 31; Gaz. vol. 185; p. 1376.
Strobel & Wilken Co., New York, N. Y. Game. No. 89,393; Dec. 10; Gaz. vol. 185; p. 521.
Strock, Lycurgus W., Bethlehem, Pa. Wooden handles. No. 87,679; July 30; Gaz. vol. 180; p. 1390.
Strohbeck, Charles W., New York, N. Y. Leather boots and shoes. No. 84,884; Jan. 9; Gaz. vol. 174; p. 581.
Strohmeyer & Arpe Company, New York, N. Y. Preparation of peat. No. 85,388; Feb. 13; Gaz. vol. 175; p. 539.
Studebaker Corporation, The, South Bend, Ind. Vehicles, not including engines. No. 87,280; July 2; Gaz. vol. 180; p. 319.
Studebaker Corporation, The, South Bend, Ind. Automobiles. No. 88,218; Sept. 3; Gaz. vol. 182; p. 245.
Studebaker Corporation, South Bend, Ind. Certain named vehicles. No. 88,711; Oct. 15; Gaz. vol. 183; p. 778.
Stumpf Erben, Hrch., Flonheim, near Bingen-on-the-Rhine, Germany. Wines. No. 85,834; Mar. 19; Gaz. vol. 176; p. 746.
Sturtevant, Charles V., San Francisco, Cal. Stove-polish. No. 86,745; May 28; Gaz. vol. 178; p. 1149.
Suburban Press, The, New York, N. Y. Magazine. No. 87,281; July 2; Gaz. vol. 180; p. 319.
Suffern & Company, New York, N. Y. Cotton piece goods, sheetings, shirtings, and drills. No. 86,251; Apr. 23; Gaz. vol. 177; p. 1040.
Suffern & Company, New York, N. Y. Cotton piece goods, sheetings, shirtings, and drills. No. 87,680; July 30; Gaz. vol. 180; p. 1390.
Suffern & Company, New York, N. Y. Cotton piece goods, &c. No. 88,800; Oct. 22; Gaz. vol. 183; p. 1029.
Sugar Loaf Orange Growers Association, Highgrove, Cal. Oranges, lemons, pomelos, and grape-fruit. No. 87,681; July 30; Gaz. vol. 180; p. 1390.
Sulfosol Co., The, New York, N. Y. Laxative tablet. No. 86,252; Apr. 23; Gaz. vol. 177; p. 1040.
Sullivan, John E., Harrisonburg, Va. Cigars. No. 86,007; Apr. 2; Gaz. vol. 177; p. 237.
Sullivan System, The, Inc., New York, N. Y. Catalogues of merchandise. No. 84,885; Jan. 9; Gaz. vol. 174; p. 581.
Sultana Mfg. Company, Cincinnati, Ohio. Slippers. No. 88,384; Sept. 10; Gaz. vol. 182; p. 507.
Summit City Soap Works, The, Fort Wayne, Ind. Soap and washing-powder. No. 88,801; Oct. 22; Gaz. vol. 183; p. 1029.
Sumter Telephone Manufacturing Co., The, Sumter, S. C. Certain electrical apparatus and supplies. No. 88,600; Oct. 1; Gaz. vol. 183; p. 214.
Sumter Telephone Mfg. Co., The, Sumter, S. C. Dynamos and electric ignition apparatus. No. 87,682; July 30; Gaz. vol. 180; p. 1390.
Sun-Ray Water Co., New York, N. Y. Spring-water. Nos. 88,130–2; Aug. 27; Gaz. vol. 181; p. 1069.
Sun-Ray Water Co., New York, N. Y. Ginger-ale. No. 88,133; Aug. 27; Gaz. vol. 181; p. 1069.
Superia Cigar Manufacturing Co., Detroit, Mich. Cigars, cheroots, and little cigars. No. 84,766; Jan. 2; Gaz. vol. 174; p. 284.
Superior Tanning Co., Chicago, Ill. Leather. No. 87,819; Aug. 6; Gaz. vol. 181; p. 262.

Alphabetical list of registrants of trade-marks—Continued.

Swartley, Harry M., Savannah, Ga. Remedy for kidney and bladder diseases. No. 86,475; May 7; Gaz. vol. 178; p. 316.
Swartz & Sons, P. M., Waukesha, Wis. Hay and field seeds. No. 88,134; Aug. 27; Gaz. vol. 181; p. 1069.
Swenson Bros. Co., Omaha, Nebr. Hoisery, petticoats, and muslin underwear. No. 85,201; Jan. 30; Gaz. vol. 174; p. 1215.
Swift and Company, Chicago, Ill. Cleansing compound. No. 85,202; Jan. 30; Gaz. vol. 174; p. 1215.
Swift, Helene, New York, N. Y. Dermatine preparation, toilet powder and cream. No. 86,176; Apr. 16; Gaz. vol. 177; p. 766.
Sylvanus Smith & Co., Gloucester, Mass. Salted, smoked, pickled, and canned fish. No. 85,690; Mar. 5; Gaz. vol. 176; p. 270.
Sylvester Company, The Connellsville, Pa. Ratchet-and-lever timber-pulling device. No. 89,715; Dec. 31; Gaz. vol. 185; p. 1376.
Symphony Pub. Co., Pittsburgh, Pa. Monthly periodical. No. 86,634; May 21; Gaz. vol. 178; p. 881.
Syrolit Limited, London, England. Plastic material. No. 87,820; Aug. 6; Gaz. vol. 181; p. 262.
Szabó, Maria, Budapest, Austria-Hungary. Certain toilet disinfectants and medicinal preparations. No. 87,683; July 30; Gaz. vol. 180; p. 1390.
T. Martin & Bro. Mfg. Co., Chelsea, Mass. Elastic webs. No. 86,606; May 21; Gaz. vol. 178; p. 880.
T. M. Sinclair & Co., Limited, Cedar Rapids, Iowa. Certain foods. No. 84,881; Jan. 9; Gaz. vol. 174; p. 581.
T. M. Sinclair & Co. Limited, Cedar Rapids, Iowa. Lard. No. 89,586; Dec. 24; Gaz. vol. 185; p. 1050.
T. P. McCutcheon & Bro., Incorporated, Philadelphia, Pa. Neckties. No. 87,789; Aug. 6; Gaz. vol. 181; p. 261.
Taft, Anna M., Chicago, Ill. Robes and manteaux. No. 86,962; June 11; Gaz. vol. 179; p. 570.
Taku Canning & Cold Storage Co., Seattle, Wash. Canned salmon. Nos. 86,346–9; Apr. 30; Gaz. vol. 177; p. 1293.
Talbot Company, Boston, Mass. Coats, trousers, and waistcoats. Nos. 88,803–4; Oct. 22; Gaz. vol. 183; p. 1029.
Taliaferro & Sherwood, New York, N. Y. Hosiery. No. 88,031; Aug. 20; Gaz. vol. 181; p. 817.
Tampa Hardware Co., Tampa, Fla. Certain named cutlery, &c. No. 88,805; Oct. 22; Gaz. vol. 183; p. 1029.
Tanaka, Genba, Kaijogori, Chiba-Ken, Japan. Sauce (soy). No. 86,674; May 21; Gaz. vol. 178; p. 882.
Tarrant Company, The, New York, N. Y. Laxative medicines. Nos. 89,394–5; Dec. 10; Gaz. vol. 185; p. 521.
Tattersall Company, The, Trenton, N. J. Coal and coal briquets. No. 87,282; July 2; Gaz. vol. 180; p. 319.
Taunton Knitting Company, Taunton, Mass. Knitted undergarments. No. 89,396; Dec. 10; Gaz. vol. 185; p. 521.
Tavares, James G., East Oakland, Cal., and Mexico, Mexico. Women's shoes. No. 88,972; Oct. 29; Gaz. vol. 183; p. 1305.
Taylor, Alexander, New York, N. Y. Foot and basket balls. No. 84,767; Jan. 2; Gaz. vol. 174; p. 284.
Taylor & Co., H. W., New York, N. Y. Hair-tonic. No. 85,717; Mar. 5; Gaz. vol. 176; p. 271.
Taylor & Co., H. W., New York, N. Y. Toilet compounds. No. 87,821; Aug. 6; Gaz. vol. 181; p. 262.
Taylor, Horace B., Philadelphia, Pa. Pills for female complaints. No. 87,574; July 23; Gaz. vol. 180; p. 1134.
Taylor Provision Co., The, Trenton, N. J. Pork meat. No. 87,944; Aug. 13; Gaz. vol. 181; p. 538.
Taylor Provision Company, The, Trenton, N. J. Pork roll. No. 86,177; Apr. 16; Gaz. vol. 177; p. 766.
Teague-McKevett Company, Santa Paula, Cal. Citrus fruits. No. 89,397; Dec. 10; Gaz. vol. 185; p. 521.
Technical Publishing Company, Chicago, Ill. Semimonthly magazine. No. 87,378; July 9; Gaz. vol. 180; p. 599.
Tee Harbor Packing Co., Port Blakely, Wash. Canned salmon. Nos. 87,882–3; Aug. 13; Gaz. vol. 181; p. 536.
Tee Harbor Packing Co., Port Blakeley, Wash. Canned salmon. No. 88,385; Sept. 10; Gaz. vol. 182; p. 507.
Tel-Til-Tip Co., The, Holland, Mich. Boots and shoes and tips therefor. No. 86,963; June 11; Gaz. vol. 179; p. 570.
Temple, William C., Winter Park, Fla. Oranges, lemons, tangerines, grape-fruit, and limes. No. 85,693; Mar. 5; Gaz. vol. 176; p. 270.
Teofani & Co., Limited, London, England. Cigarettes. No. 85,623; Feb. 27; Gaz. vol. 175; p. 1095.
Termaat & Monahan Co., Oshkosh, Wis. Gasolene-engines. No. 87,822; Aug. 6; Gaz. vol. 181; p. 262.
Terra Ceia Citrus Growers Association, Terra Ceia, Fla. Oranges, grape-fruit, tangerines, limes, and lemons. No. 89,517; Dec. 17; Gaz. vol. 185; p. 825.
Tetlow, Joseph, Philadelphia, Pa. Perfume. No. 87,823; Aug. 6; Gaz. vol. 181; p. 262.
Texas Company, The, Houston and Port Arthur, Tex., and New York, N. Y. Lubricating-oils. Nos. 85,518–21; Feb. 20; Gaz. vol. 175; p. 840.
Texas Company, The, Houston and Port Arthur, Tex., and New York, N. Y. Lubricating-oils. No. 85,694; Mar. 5; Gaz. vol. 176; p. 270.
Texas Company, The, Houston and Port Arthur, Tex., and New York, N. Y. Lubricating-oils. No. 85,924; Mar. 26; Gaz. vol. 176; p. 1067.
Texas Company, The, Houston, and Port Arthur, Tex., and New York, N. Y. Kerosene. Nos. 86,635–7; May 21; Gaz. vol. 178; p. 881.
Texas Company, Houston and Port Arthur, Tex., and New York, N. Y. Lubricating-oils. Nos. 87,283–4; July 2; Gaz. vol. 180; p. 319.
Texas Company, The, Houston and Port Arthur, Tex., and New York, N. Y. Lubricating-oil. No. 87,824; Aug. 6; Gaz. vol. 181; p. 262.
Texas Company, Houston and Port Arthur, Tex., and New York, N. Y. Lubricating-oils. No. 88,032; Aug. 20; Gaz. vol. 181; p. 817.
Texas Company, Houston and Port Arthur, Tex., and New York, N. Y. Lubricating-oil. No. 88,712; Oct. 15; Gaz. vol. 183; p. 778.
Texas Company, Houston and Port Arthur, Tex., and New York, N. Y. Kerosene. No. 88,713; Oct. 15; Gaz. vol. 183; p. 778.
Texas Company, Houston and Port Arthur, Tex., and New York, N. Y. Lubricating-oil. No. 88,714; Oct. 15; Gaz. vol. 183; p. 778.
Texas Company, Houston and Port Arthur, Tex., and New York, N. Y. Kerosene. No. 88,715; Oct. 15; Gaz. vol. 183; p. 778.
Texas Company, The, Houston and Port Arthur, Tex., and New York, N. Y. Kerosene. No. 88,806; Oct. 22; Gaz. vol. 183; p. 1029.
Texas Refining Company, Greenville, Tex. Cooking-oil. No. 86,008; Apr. 2; Gaz. vol. 177; p. 237.
Textile Publishing Company, New York, N. Y. Weekly periodical. No. 85,835; Mar. 19; Gaz. vol. 176; p. 746.
Thayer, McNeil & Hodgkins, Boston, Mass. Leather boots and shoes. No. 88,973; Oct. 29; Gaz. vol. 183; p. 1305.
The 14th Street Store, New York, N. Y. Corsets. No. 87,870; Aug. 13; Gaz. vol. 181; p. 536.
The Mirror, New York, N. Y. Candy. No. 88,914; Oct. 29; Gaz. vol. 183; p. 1303.
Theo. H. Davies & Company, Ltd., Honolulu, Hawaii. Canned pineapple. No. 84,819; Jan. 9; Gaz. vol. 174; p. 579.
Theo. H. Gary Co., New York, N. Y. Window-shades and Venetian blinds. No. 85,342; Feb. 13; Gaz. vol. 175; p. 538.
Theo. Poehler Mercantile Co., The, Lawrence, Kans. Coffee. No. 86,936; June 11; Gaz. vol. 179; p. 569.
Theo Ricksecker Co., The, New York, N. Y. Medicated salve. No. 89,303; Dec. 3; Gaz. vol. 185; p. 245.
Thermolac Manufacturing Company, Boston, Mass. Receptacles or containers. No. 85,522; Feb. 20; Gaz. vol. 175; p. 840.
Thermolac Manufacturing Company, Boston, Mass. Metal drinking-cups. No. 85,523; Feb. 20; Gaz. vol. 175; p. 840.
Thermos-Aktiengesellschaft, Berlin, Germany. Certain receptacles. No. 87,285; July 2; Gaz. vol. 180; p. 319.
Thomas B. Jeffery Company, The, Kenosha, Wis. Automobiles. Nos. 84,749–50; Jan. 2; Gaz. vol. 174; p. 284.
Thomas B. Jeffery Company, The, Kenosha, Wis. Automobiles. Nos. 84,776–7; Jan. 2; Gaz. vol. 174; p. 285.
Thomas Buchanan Company, The, Cincinnati, Ohio. Substance for case-hardening metals. No. 89,398; Dec. 10; Gaz. vol. 185; p. 521.
Thomas, Frank G., Mankato, Minn. Medicated plasters. No. 86,476; May 7; Gaz. vol. 178; p. 316.
Thomas G. Plant Company, Boston, Mass. Shoes. No. 85,992; Apr. 2; Gaz. vol. 177; p. 236.
Thomas G. Plant Company, Montclair, N. J., and Boston, Mass. Shoes. No. 86,615; May 21; Gaz. vol. 178; p. 880.
Thomas, John W., Habana, Cuba. Antiseptic soap. No. 86,350; Apr. 30; Gaz. vol. 177; p. 1293.
Thomas, Reginald C., New York, N. Y. Cosmetic cream. No. 86,109; Apr. 9; Gaz. vol. 177; p. 521.
Thomas, Stephen S., Warren, Ohio. Fireless cookers. No. 87,497; July 16; Gaz. vol. 180; p. 876.
Thomas Wood Co., Boston, Mass. Coffee. No. 85,305; Feb. 6; Gaz. vol. 175; p. 261.
Thomas Wood Co., Boston, Mass. Blended coffee. No. 89,171; Nov. 12; Gaz. vol. 184; p. 547.
Thomasphosphatfabriken Gesellschaft mit beschränkter Haftung, Berlin, Germany. Thomasphosphat. No. 88,387; Sept. 10; Gaz. vol. 182; p. 507.
Thompson, Edwin, Liverpool, England. Electrical massaging appliance. No. 86,477; May 7; Gaz. vol. 178; p. 316.
Thompson, Harry, South Hampstead, London, England. Games. No. 87,379; July 9; Gaz. vol. 180; p. 599.
Thompson, Homer W., New York, N. Y. Soft enamel in various colors used as a filler. No. 85,203; Jan. 30; Gaz. vol. 174; p. 1215.
Thompson, John B., Harrodsburg, Ky. Whisky. No. 89,160; Nov. 12; Gaz. vol. 184; p. 547.
Thompson, Joseph, Sioux City, Iowa. Cloth-cleaning pads. No. 86,351; Apr. 30; Gaz. vol. 177; p. 1293.
Thornton & Chester Milling Co., Buffalo, N. Y. Flour. Nos. 86,478–81; May 7; Gaz. vol. 178; p. 316.
Thornton & Chester Milling Co., Buffalo, N. Y. Wheat-flour. No. 86,638; May 21; Gaz. vol. 178; p. 881.

Alphabetical list of registrants of trade-marks—Continued.

Thornton, John, Jr., New York, N. Y. Sewing-needles. No. 87,498; July 16; Gaz. vol. 180; p. 876.
Thorpe, Harry S., Norfolk, Nebr. Furniture-polish. No. 87,123; June 25; Gaz. vol. 179; p. 1103.
Thos. Roulston, Inc., New York, N. Y. Soap powder and soap. No. 89,146; Nov. 12; Gaz. vol. 184; p. 547.
Tice, Claudius M., Boston, Mass. Compound of maple-sugar and cane-syrup. No. 86,178; Apr. 16; Gaz. vol. 177; p. 766.
Tidewater Portland Cement Company, The, Union Bridge, Md., and New York, N. Y. Lime and cement. No. 86,562; May 14; Gaz. vol. 178; p. 588.
Tigges & Co., Haspe, Germany. Magnets for technical purposes. No. 85,295; Feb. 6; Gaz. vol. 175; p. 261.
Tilden-Thurber Co., Providence, R. I. Garment-hangers. No. 88,135; Aug. 27; Gaz. vol. 181; p. 1069.
Tillson & Co. Inc., Salem, Oreg. Evaporated fruits. No. 87,945; Aug. 13; Gaz. vol. 181; p. 538.
Tillson & Co. Inc., Salem, Oreg. Evaporated fruits. No. 88,136; Aug. 27; Gaz. vol. 181; p. 1069.
Tim & Co., New York and Troy, N. Y. Textile collars, underdrawers, undershirts, union suits, and pajamas. No. 86,009; Apr. 2; Gaz. vol. 177; p. 237.
Tioga Mill & Elevator Co., near Waverly, N. Y. Stock feed. No. 88,975; Oct. 29; Gaz. vol. 183; p. 1305.
Tisdale, Mark B., Bentonville, Ark. Beverage. No. 87,019; June 18; Gaz. vol. 179; p. 848.
Titus Blatter & Co., New York, N. Y. Cotton converted goods. No. 85,727; Mar. 12; Gaz. vol. 176; p. 521.
Toby, Edward, Waco, Tex. Face-cream. No. 85,525; Feb. 20; Gaz. vol. 175; p. 840.
Todd, John T., assignor to Eureka Study System, Springfield, Ill. Card games. No. 84,769; Jan. 2; Gaz. vol. 174; p. 284
Tokheim, John J. (See Tokheim Manufacturing Company, assignor.)
Tokheim Manufacturing Company, The, assignor to J. J. Tokheim, Cedar Rapids, Iowa. Liquid measuring and dispensing machines. No. 86,639; May 21; Gaz. vol. 178; p. 881.
Tom Wilson Manufacturing Company, The, New York, N. Y. Chewing-gum. No. 84,893; Jan. 9; Gaz. vol. 174; p. 581.
Tomkinson, Kenyon & Tomkinson Co., Honeoye Falls, N. Y. Wheat-flour. No. 87,684; July 30; Gaz. vol. 180; p. 1390.
Tootal Broadhurst Lee Company, Limited, Manchester, England. Cotton handkerchiefs. No. 84,886; Jan. 9; Gaz. vol. 174; p. 581.
Tootle, Wheeler & Motter Mer. Co., assignor to Wheeler and Motter Mercantile Company, St. Joseph, Mo. Cotton flannels. No. 84,887; Jan. 9; Gaz. vol. 174; p. 581.
Torres, Lagarde & Co., Buenos Aires, Argentina. Petroleum No. 89,209; Nov. 19; Gaz. vol. 184; p. 800.
Tower Manufacturing & Novelty Co., New York, N. Y. Certain dental, medical, and surgical appliances. No. 86,838; June 4; Gaz. vol. 179; p. 283.
Tower Manufacturing & Novelty Co., New York, N. Y. Crockery pin cups and trays. No. 86,964; June 11; Gaz. vol. 179; p. 570.
Tower Manufacturing & Novelty Co., New York, N. Y. Mucilage. No. 87,286; July 2; Gaz. vol. 180; p. 319.
Tower Manufacturing & Novelty Co., New York, N. Y. Harmonicas and jews'-harps. No. 87,380; July 9; Gaz. vol. 180; p. 599.
Tower Manufacturing & Novelty Co., New York, N. Y. Type-writer ribbons and carbon-paper. No. 87,381; July 9; Gaz vol. 180; p. 599.
Tower Manufacturing & Novelty Co., New York, N. Y. Shawl-straps, pocket-books, school-bags, &c. No. 87,499; July 16; Gaz. vol. 180; p. 876.
Tower Manufacturing & Novelty Co., New York, N. Y. Gummed paper tape, glue, and mucilage. No. 87,500; July 16; Gaz. vol. 180; p. 876.
Tower Manufacturing & Novelty Co., New York, N. Y. Certain named inks and inking materials. No. 87,685; July 30; Gaz. vol. 180; p. 1390.
Tower Manufacturing & Novelty Co., New York, N. Y. Steel rulers. No. 87,686; July 30; Gaz. vol. 180; p. 1390.
Tower Manufacturing & Novelty Co., New York, N. Y. Camel's-hair and bristle brushes. No. 87,825; Aug. 6; Gaz. vol. 181; p. 262.
Tower Manufacturing & Novelty Co., New York, N. Y. Key-rings. No. 87,946; Aug. 13; Gaz. vol. 181; p. 538
Tower Manufacturing & Novelty Co., New York, N. Y Scoring-pads, catalogues, circulars, and folders. No. 87,947; Aug. 13; Gaz. vol. 181; p. 538.
Tower Manufacturing & Novelty Co., New York, N. Y Shipping-tags, writing tablets, cards, &c. No. 88,033; Aug. 20; Gaz vol. 181; p. 817.
Tower Manufacturing & Novelty Co., New York, N. Y. Certain measuring and draftsmen's instruments. No 88,221; Sept. 3; Gaz. vol. 182; p. 245
Tower Manufacturing & Novelty Co., New York, N. Y Certain named paper and stationery. No. 88,532; Sept. 24; Gaz. vol. 182; p. 967.
Tower Manufacturing & Novelty Co., New York, N. Y. Certain named receptacles. No. 88,533; Sept. 24; Gaz. vol. 182; p. 967.
Tower Manufacturing & Novelty Co., New York, N. Y. Letter-copying cloths. No. 88,976; Oct. 29; Gaz. vol. 183; p. 1305.
Tower Manufacturing & Novelty Co., New York, N. Y. Certain named stationery supplies. Nos. 89,305–6; Dec. 3; Gaz. vol. 185; p. 245.
Towle Manufacturing Company, The, Newburyport, Mass. Chests and cabinets. No. 88,222; Sept. 3; Gaz. vol. 182; p. 245.
Towle, Nelson L., Chicago, Ill. Candies. No. 87,124; June 25; Gaz. vol. 179; p. 1103.
Towner & Co., Inc., Memphis, Tenn. Rubber boots. No. 88,808; Oct. 22; Gaz. vol. 183; p. 1029.
Townsend & Co., E. M., New York, N. Y. Hosiery. No. 88,977; Oct. 29; Gaz. vol. 183; p. 1305.
Townsend & Co., E. M., New York, N. Y. Hosiery. No. 89,716; Dec. 31; Gaz. vol. 185; p. 1376.
Tracy, Packard & Huntoon, Montclair, N. J., and New York, N. Y. Blended coffee. No. 87,948; Aug. 13; Gaz. vol. 181; p. 538.
Traverse City Refrigerator Co., Traverse City, Mich. Fireless cookers. No. 87,125; June 25; Gaz. vol. 179; p. 1104.
Traverse City Refrigerator Co., Traverse City, Mich. Certain filters and refrigerators. No. 87,287; July 2; Gaz. vol. 180; p. 319.
Treasure State Milling Company, Manhattan, Mont. Wheat-flour. No. 87,687; July 30; Gaz. vol. 180; p. 1390.
Trentman, John W., Cleveland, Ohio. Baking-powder. No. 86,482; May 7; Gaz. vol. 178; p. 316.
Trenton Ink Co., Trenton, N. J. Acid-proof and water-proof writing fluid. No. 87,288; July 2; Gaz. vol. 180; p. 319.
Trenton Milling Company, Trenton, Ill. Wheat-flour. No. 88,430; Sept. 17; Gaz. vol. 182; p. 718.
Trenton Potteries Company, The, Trenton, N. J. Sanitary water-closets. No. 87,126; June 25; Gaz. vol. 179; p. 1104.
Trevaskis, Ella R., St. Louis, Mo. Talcum powder, toilet water, and rouge. No. 86,483; May 7; Gaz. vol. 178; p. 316.
Tri-Tone Drug Manufacturing Company, Memphis, Tenn. Laxative remedy. No. 85,204; Jan. 30; Gaz. vol. 174; p. 1215.
Trinacria Macaroni Works, Baltimore, Md. Macaroni. No. 87,949; Aug. 13; Gaz. vol. 181; p. 538.
Trippe, Barker & Co., New York, N. Y. Cotton and linen piece goods. No. 85,836; Mar. 19; Gaz. vol. 176; p. 746.
Trippe, Barker & Co., New York, N. Y. Cotton and linen piece goods. No. 86,179; Apr. 16; Gaz. vol. 177; p. 767.
Trommsdorff, Firm of H., Erfurt and Aix-la-Chapelle, Germany. Certain medicinal preparations. No. 86,484; May 7; Gaz. vol. 178; p. 317.
Trounce, Frank W., Buffalo, N. Y. Pruning-knives. No. 89,717; Dec. 31; Gaz. vol. 185; p. 1376.
Trowbridge, William S., Meadville, Pa. Candy. No. 87,127; June 25; Gaz. vol. 179; p. 1104.
Tryst Cigarette Co., New York, N. Y. Cigarettes. No. 88,219; Sept. 3; Gaz. vol. 182; p. 245.
Tubbs, Lewis & Co., Wotton-under-Edge, England. Toilet-pins. No. 88,809; Oct. 22; Gaz. vol. 183; p. 1029.
Tubular Woven Fabric Co., Pawtucket, R. I. Electrical conductor-tubes. No. 86,485; May 7; Gaz. vol. 178; p. 317.
Tucker, James W., Chicago, Ill. Glass-cutters. No. 85,296; Feb. 6; Gaz. vol. 175; p. 261.
Turner Brass Works, The, Sycamore and Chicago, Ill. Certain heating, lighting, and ventilating apparatus. No. 85,526; Feb. 20; Gaz. vol. 175; p. 840.
Turner Brass Works, The, Sycamore and Chicago, Ill. Torches and paint-breamers. No. 85,777; Mar. 12; Gaz. vol. 176; p. 522.
Turner and Harrison Pen Manufacturing Company, The. Pens. No. 89,307; Dec. 3; Gaz. vol. 185; p. 245.
Tüshaus, Heinrich, Borken, Germany. Non-alcoholic beverages. No. 87,020; June 18; Gaz. vol. 179; p. 848.
Twin Falls Milling & Elevator Co., The, Twin Falls, Idaho. Wheat-flour. No. 85,695; Mar. 5; Gaz. vol. 176; p. 270.
Twin Falls Milling & Elevator Co., The, Twin Falls, Idaho. Wheat-flour. No. 85,778; Mar. 12; Gaz. vol. 176; p. 522.
Twin-Grip Wrench Company, New York, N. Y. Wrenches. Nos. 85,297–8; Feb. 6; Gaz. vol. 175; p. 261.
Twining, Charles, New York, N. Y. Type-writers. No. 85,925; Mar. 26; Gaz. vol. 176; p. 1067.
Twining, Charles, New York, N. Y. Computing-machines. No. 86,180; Apr. 16; Gaz. vol. 177; p. 767.
Tyler Sons & Co., W., Leicester, England. Hose, half-hose, and gloves. No. 87,575; July 23; Gaz. vol. 180; p. 1134.
Tyrrell's Hygienic Institute, New York, N. Y. Antiseptic tonic. No. 89,718; Dec. 31; Gaz. vol. 185; p. 1376.
U. S. Bedding Company, Memphis, Tenn. Mattresses. No. 89,330; Dec. 10; Gaz. vol. 185; p. 519.
U. S. Cartridge Co., Lowell, Mass. Cartridges. No. 87,688; July 30; Gaz. vol. 180; p. 1390.
U. S. Hame Company, Buffalo, N. Y. Hames. No. 86,640; May 21; Gaz. vol. 178; p. 881.

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U. S. Hamé Company, Buffalo, N. Y. Hames. Nos. 86,839–40; June 4; Gaz. vol. 179; p. 283.
U. S. Hame Company, Buffalo, N. Y. Hames. No. 87,289; July 2; Gaz. vol. 180; p. 319.
U. S. Slicing Machine Company, Chicago, Ill. Meat-slicing machines and meat-slicers. Nos. 87,290–1; July 2; Gaz. vol. 180; p. 319.
U. S. Slicing Machine Company, Chicago, Ill. Meat-slicing machines and meat-slicers. No. 88,220; Sept. 3; Gaz. vol. 182; p. 245.
U. S. Slicing Machine Company, Chicago, Ill. Meat-slicing machines and meat-slicers. No. 89,708; Dec. 31; Gaz. vol. 185; p. 1376.
U. S. E. M. Co., New York, N. Y. Electrical bell-ringers. No. 86,010; Apr. 2; Gaz. vol. 177; p. 237.
U-No-Iron-Rust Company, Chicago, Ill. Chemical for removing iron-rust stains. No. 89,719; Dec. 31; Gaz. vol. 185; p. 1376.
U-Va-Jee Manufacturing Co., Watertown, Wis. Medicinal salve. No. 86,841; June 4; Gaz. vol. 179; p. 283.
Ukaneat Specialty Company, Nashville, Tenn. Salted peanuts and peanut-butter sandwiches. No. 88,137; Aug. 27; Gaz. vol. 181; p. 1069.
Ulager, Joseph, Cleveland, Ohio. Remedy for skin disease. No. 87,576; July 23; Gaz. vol. 180; p. 1135.
Ulmann & Co., Bernhard, New York, N. Y. Yarn. No. 85,019; Jan. 16; Gaz. vol. 174; p. 825.
Ullman Company, The, Cincinnati, Ohio. Whisky. No. 85,837; Mar. 19; Gaz. vol. 176; p. 746.
Ullmann, Isaac A., New York, N. Y. Devices for attaching collars to shirts. No. 87,689; July 30; Gaz. vol. 180; p. 1390.
Ulrich & Co., Buffalo, N. Y. Metal-polishes. No. 87,502; July 16; Gaz. vol. 180; p. 876.
Uncle Sam's Macaroni Co., The, Tecumseh, Mich. Vermicelli, noodles, alphabets, &c. No. 87,292; July 2; Gaz. vol. 180; p. 319.
Underberg, Hubert, Rheinberg, Germany. Bitters. No. 85,838; Mar. 19; Gaz. vol. 176; p. 746.
Underwood, Francis J., Jamestown, N. Y. Turpentine substitute. No. 85,926; Mar. 26; Gaz. vol. 176; p. 1067.
Underwood, Walter H., Hutchinson, Kans. Dried fruits and cheese. No. 85,020; Jan. 16; Gaz. vol. 174; p. 825.
Ungerer & Co., New York, N. Y. Perfumery ingredients. No. 87,577; July 23; Gaz. vol. 180; p. 1135.
Union Bag and Paper Company, Jersey City, N. J., and New York, N. Y. Paper bags. No. 86,965; June 11; Gaz. vol. 179; p. 570.
Union Dairy Company, St. Louis, Mo. Milk. No. 84,888; Jan. 9; Gaz. vol. 174; p. 581.
Union News Company, New York, N. Y. Skin-lotions. No. 86,486; May 7; Gaz. vol. 178; p. 317.
Union Oil Co. of California, San Francisco, Cal. Lubricating-oils. No. 85,527; Feb. 20; Gaz. vol. 175; p. 840.
Union Paper & Twine Co., The, Detroit, Mich. Wrapping-paper. No. 85,389; Feb. 13; Gaz. vol. 175; p. 539.
Union Petroleum Company, Philadelphia, Pa. Certain painters' materials. No. 86,110; Apr. 9; Gaz. vol. 177; p. 521.
Union Roller Milling Co., Pocahontas, Mo. Self-rising flour. No. 86,641; May 21; Gaz. vol. 178; p. 881.
Union Smelting & Refining Company, New York, N. Y. Certain metals cast in ingots. No. 85,624; Feb. 27; Gaz. vol. 175; p. 1095.
Union Well Supply Co., Los Angeles, Cal. Lubricating-oil. No. 88,388; Sept. 10; Gaz. vol. 182; p. 507.
Union Wholesale Liquor Co., Chicago, Ill. Bitters. No. 88,034; Aug. 20; Gaz. vol. 181; p. 817.
United Ancient Order of Druids, New Orleans, La., and Albany, N. Y. Books. No. 87,503; July 16; Gaz. vol. 180; p. 876.
United Cigar Manufacturers Company, New York, N. Y. Cigars. No. 86,487; May 7; Gaz. vol. 178; p. 317.
United Drug Co., Boston, Mass. Candy. No. 84,889; Jan. 9; Gaz. vol. 174; p. 581.
United Drug Company, Boston, Mass. Writing-paper, envelops, and writing-tablets. No. 85,696; Mar. 5; Gaz. vol. 176; p. 270.
United Flour Mills Company, Minneapolis, Minn. Wheat-flour. No. 89,588; Dec. 24; Gaz. vol. 185; p. 1051.
United Gas Improvement Company, The, Philadelphia, Pa. Certain construction material. No. 85,887; Mar. 26; Gaz. vol. 176; p. 1066.
United & Globe Rubber M'f'g Companies, Trenton, N. J. Rubber belting, hose, and packing. No. 85,528; Feb. 20; Gaz. vol. 175; p. 840.
United Grocery Co., Jacksonville, Fla. Remedy for syphilis and blood-poison. No. 85,390; Feb. 13; Gaz. vol. 175; p. 539.
United Injector Company, The, New York, N. Y. Ejectors. No. 88,644; Oct. 8; Gaz. vol. 183; p. 500.
United News & Stationery Co., The, Rochester, N. Y. Pens, pencils, writing paper and tablets. No. 86,563; May 14; Gaz. vol. 178; p. 588.
United Ribbon Co., New York, N. Y. Neckties. No. 85,839; Mar. 19; Gaz. vol. 176; p. 746.
United Roofing and Manufacturing Co., Philadelphia, Pa. Building and sheathing papers. No. 87,690; July 30; Gaz. vol. 180; p. 1390.
United Safety Razor Company, New York, N. Y. Razors and razor-blades. No. 86,746; May 28; Gaz. vol. 178; p. 1149.
United Shoe Machinery Company, Paterson, N. J., and Boston, Mass. Protectors for heels and soles of boots and shoes. No. 88,035; Aug. 20; Gaz. vol. 181; p. 817.
United Shoe Machinery Company, Paterson, N. J., and Boston, Mass. Certain named machines. No. 88,432; Sept. 17; Gaz. vol. 182; p. 718.
United Shoe Machinery Company, Paterson, N. J., and Boston, Mass. Boot and shoe heel and sole protectors. No. 88,978; Oct. 29; Gaz. vol. 183; p. 1305.
United States Cartridge Company, Lowell, Mass. Cartridge-shells. No. 85,391; Feb. 13; Gaz. vol. 175; p. 539.
United States Chrome Sole Co., Chicago, Ill. Leather soles. No. 88,810; Oct. 22; Gaz. vol. 183; p. 1029.
United States Chrome Sole Company, Chicago, Ill. Leather hoof-pads. No. 84,921; Jan. 9; Gaz. vol. 174; p. 582.
United States Compound Company, Buffalo, N. Y. Compound for cleaning automobile-radiators. No. 89,162; Nov. 12; Gaz. vol. 184; p. 547.
United States Gauge Co., Sellersville, Pa., and New York, N. Y. Certain measuring and scientific appliances. No. 86,747; May 28; Gaz. vol. 178; p. 1149.
United States Gauge Company, Sellersville, Pa., and New York, N. Y. Gages. No. 89,161; Nov. 12; Gaz. vol. 184; p. 547.
United States Glass Company, Pittsburgh, Pa. Glassware, especially table-glass. No. 88,138; Aug. 27; Gaz. vol. 181; p. 1069.
United States Gypsum Co., Jersey City, N. J., and Chicago, Ill. Certain construction materials. No. 87,382; July 9; Gaz. vol. 180; p. 599.
United States Tobacco Co., Richmond, Va. Smoking-tobacco. No. 89,720; Dec. 31; Gaz. vol. 185; p. 1376.
United States Whip Company, Westfield, Mass. Whips. No. 85,205; Jan. 30; Gaz. vol. 174; p. 1215.
United States Wire Mat Company, Decatur, Ill. Fly-killers. No. 85,049; Jan. 23; Gaz. vol. 174; p. 1023.
Universal Flexible Packing Co., Pittsburgh, Pa. Metallic packing. No. 88,535; Sept. 24; Gaz. vol. 182; p. 967.
Universal Optical Corporation, Providence, R. I. Certain optical appliances. No. 85,888; Mar. 26; Gaz. vol. 176; p. 1066.
Universal Optical Corporation, Providence, R. I. Certain optical supplies. No. 86,642; May 21; Gaz. vol. 178; p. 881.
Uno Manufacturing Company. (See Progress Company, The, assignor.)
Untermeyer-Robbins & Company, New York, N. Y. Thimbles. No. 86,966; June 11; Gaz. vol. 179; p. 570.
Upjohn Company, The, Kalamazoo, Mich. Laxative preparations. No. 85,625; Feb. 27; Gaz. vol. 175; p. 1095.
Upjohn Company, Kalamazoo, Mich. Candy. No. 88,979; Oct. 29; Gaz. vol. 183; p. 1305.
Upland Citrus Ass'n., Upland, Cal. Oranges. No. 85,927; Mar. 26; Gaz. vol. 176; p. 1067.
Upmann & Co., H., Habana, Cuba. Cigars. No. 89,518; Dec. 17; Gaz. vol. 185; p. 825.
Upson-Walton Company, The, Cleveland, Ohio. Jute clothes-lines. No. 88,139; Aug. 27; Gaz. vol. 181; p. 1069.
Urban, Charles, London, England. Kinematographic apparatus and photographic films bearing finished pictures. No. 85,889; Mar. 26; Gaz. vol. 176; p. 1066.
Utah Knitting Co., Ogden, Utah. Cotton and woolen knitted underwear. No. 88,980; Oct. 29; Gaz. vol. 183; p. 1305.
Utah Oil Refining Company, Salt Lake City, Utah. Lubricating-oils. No. 86,181; Apr. 16; Gaz. vol. 177; p. 767.
Utah Oil Refining Company, Salt Lake City, Utah. Kerosene. No. 86,182; Apr. 16; Gaz. vol. 177; p. 767.
Utah Oil Refining Company, Salt Lake City, Utah. Lubricating-oils. No. 86,183; Apr. 16; Gaz. vol. 177; p. 767.
Utah Oil Refining Company, Salt Lake City, Utah. Cup-greases. No. 86,184; Apr. 16; Gaz. vol. 177; p. 767.
Utah Oil Refining Company, Salt Lake City, Utah. Lubricating-oils. No. 86,185; Apr. 16; Gaz. vol. 177; p. 767.
Utah Oil Refining Company, Salt Lake City, Utah. Gear-greases. No. 86,967; June 11; Gaz. vol. 179; p. 570.
Utica Steam and Mohawk Valley Cotton Mills, Utica, N. Y. Sheets, sheetings, pillow-cases, and cotton piece goods. Nos. 87,383–4; July 9; Gaz. vol. 180; p. 599.
Utica Steam and Mohawk Valley Cotton Mills, Utica, N. Y. Cotton yarns. Nos. 88,981–2; Oct. 29; Gaz. vol. 183; p. 1305.
Utrecht Export Cy., The, "Griendt Brothers," Ltd., Utrecht, Netherlands. Oleomargarin. No. 89,308; Dec. 3; Gaz. vol. 185; p. 246.
Vacumit-Gesellschaft m. b. H., Vienna, Austria-Hungary. Substitute for rubber. No. 88,433; Sept. 17; Gaz. vol. 182; p. 718.
Vacuum Oil Company, Rochester, N. Y. Naphtha, gasolene, and benzin. No. 85,928; Mar. 26; Gaz. vol. 176; p. 1067.
Vacuum Oil Company, Rochester, N. Y. Illuminating-oils. No. 87,128; June 25; Gaz. vol. 179; p. 1104.

Alphabetical list of registrants of trade-marks—Continued.

Valentin Blatz Brewing Co., Milwaukee, Wis. Beer. No. 86,842; June 4; Gaz. vol. 179; p. 283.
Valentine & Company, New York, N. Y. Varnishes. No. 85,626; Feb. 27; Gaz. vol. 175; p. 1095.
Valentine & Son, A. S., Philadelphia, Pa. Cigars. No. 88,645; Oct. 8; Gaz. vol. 183; p. 500.
Van Antwerp's Drug Corporation Inc., Mobile, Ala. Electric batteries. No. 88,983; Oct. 29; Gaz. vol. 183; p. 1305.
Van Auken, Byron E., Chicago, Ill. Certain named plumbing and steam-fitting supplies. No. 87,691; July 30; Gaz. vol. 180; p. 1390.
Van Camp Packing Co., Indianapolis, Ind. Evaporated milk. No. 88,536; Sept. 24; Gaz. vol. 182; p. 967.
Van Horne, David S., Monroe, Ga. Remedy for certain ailments and diseases. No. 89,163; Nov. 12; Gaz. vol. 184; p. 547.
Van Houten & Zoon, C. J., Weesp, Netherlands. Cocoa. No. 87,293; July 2; Gaz. vol. 180; p. 319.
Van Raalte, E. & Z., New York, N. Y. Veilings. No. 86,488; May 7; Gaz. vol. 178; p. 317.
Van Vleet-Mansfield Drug Co., Memphis, Tenn. Tonic-bitters. No. 85,392; Feb. 13; Gaz. vol. 175; p. 539.
Vanadium Chemical Co., The, Pittsburgh, Pa. Nerve and tissue tonic. No. 86,253; Apr. 23; Gaz. vol. 177; p. 1040.
Vanadium Chemical Co., The, Pittsburgh, Pa. Antiseptic. No. 86,254; Apr. 23; Gaz. vol. 177; p. 1040.
Vandame, Mathilda, Goldfield, Nev. Hair-tonic. No. 86,255; Apr. 23; Gaz. vol. 177; p. 1040.
Vanderhoef & Company, New York, N. Y. Hats. Nos. 88,389–90; Sept. 10; Gaz. vol. 182; p. 507.
Vanity Manufacturing Company, Buffalo, N. Y. Shoe-polish. No. 88,140; Aug. 27; Gaz. vol. 181; p. 1070.
Varicocene Company, The, Battle Creek, Iowa. Ointment. No. 89,721; Dec. 31; Gaz. vol. 185; p. 1376.
Vecchiolli, Rocco R., Washington, D. C. Hair or scalp tonic. No. 85,627; Feb. 27; Gaz. vol. 175; p. 1095.
Vercherre & Co., Beaune, Cote d'Or, France. Burgundy. No. 88,720; Oct. 15; Gaz. vol. 183; p. 779.
Vernier, Amiel J., Chicago, Ill. Wheat-flour. No. 85,840; Mar. 19; Gaz. vol. 176; p. 746.
Vero-Form Hygienic Company, Newark, N. J. Toilet soap. No. 85,207; Jan. 30; Gaz. vol. 174; p. 1215.
Vette & Zuncker, Chicago, Ill. Canned chop-soy. No. 86,968; June 11; Gaz. vol. 179; p. 570.
Vève, Aristide, Paris, France. Dentifrice. No. 86,489; May 7; Gaz. vol. 178; p. 317.
Vi-Stix Products Company, The, Denver, Colo. Wheat-bread. No. 87,129; June 25; Gaz. vol. 179; p. 1104.
Victor-Balata & Textile Belting Co., Easton, Pa.; New York, N. Y., and Chicago, Ill. Belting composed of duck impregnated with gum. No. 86,643; May 21; Gaz. vol. 178; p. 881.
Victor Combination Kitchen Boiler Company, Oakland, Cal. Combination kitchen-boilers and gas water-heaters. No. 86,843; June 4; Gaz. vol. 179; p. 283.
Victor Neustadtl, Inc., New York, N. Y. Beer. No. 86,149; Apr. 16; Gaz. vol. 177; p. 766.
Victor Sporting Goods Company, Springfield, Mass. Certain sporting goods. No. 85,779; Mar. 12; Gaz. vol. 176; p. 522.
Victor Talking Machine Company, Camden, N. J. Talking-machines and parts for same. No. 87,827; Aug. 6; Gaz. vol. 181; p. 262.
Victor Talking Machine Company, Camden, N. J. Sound-recording machines and parts thereof. No. 88,391; Sept. 10; Gaz. vol. 182; p. 507.
Victor Milling Co., Victor, N. Y. Wheat-flour. No. 89,309; Dec. 3; Gaz. vol. 185; p. 246.
Victoria Cream Co., The, Camden, N. J. Laxative pill. No. 88,646; Oct. 8; Gaz. vol. 183; p. 500.
Victoty Company, The, Buffalo, N. Y. Therapeutic battery. No. 87,950; Aug. 13; Gaz. vol. 181; p. 538.
Vincent Co., Marx, Eugene, Oreg. Remedy for poison-oak poisoning. No. 85,628; Feb. 27; Gaz. vol. 175; p. 1095.
Vincentelli & Company, P. & F., Anvers, Belgium. Candied fruits and peels. No. 85,841; Mar. 19; Gaz. vol. 176; p. 746.
Virginia Silk Co. (Incorporated,) Richmond, Va. Silk ribbons. No. 86,011; Apr. 2; Gaz. vol. 177; p. 237.
Virginia Silk Co. Incorporated, South Richmond, Va. Ribbons. No. 87,828; Aug. 6; Gaz. vol. 181; p. 262.
Virginia Silk Co., Incorporated, Richmond, Va. Satin taffeta. No. 88,036; Aug. 20; Gaz. vol. 181; p. 817.
Viscose Development Co. Limited, The, London, England. Corks, caps, capsules, and bottle-sealing devices. No. 89,164; Nov. 12; Gaz. vol. 184; p. 547.
Visor Knitting Company, Niagara Falls, N. Y. Sweater-coats, hoods, and mufflers. No. 88,984; Oct. 29; Gaz. vol. 183; p. 1305.
Visseaux, Jacques, Lyon, France. Incandescent burners and mantles. No. 86,748; May 28; Gaz. vol. 178; p. 1149.
Vital Remedies Company, Houston, Tex. Remedy for certain diseases. No. 87,951; Aug. 13; Gaz. vol. 181; p. 538.
Vitalis Co., The, New York, N. Y. Laxative remedy. No. 85,890; Mar. 26; Gaz. vol. 176; p. 1066.
Vitalis Co., New York, N. Y. Medicinal tonic preparation. No. 88,537; Sept. 24; Gaz. vol. 182; p. 967.
Vlahov, Roberto, Zara, Austria-Hungary. Liqueur. Nos. 86,644–5; May 21; Gaz. vol. 178; p. 881.
Vlahov, Roberto, Zara, Austria-Hungary. Liqueur. No. 88,141; Aug. 27; Gaz. vol. 181; p. 1070.
Vogt-Applegate Co., Louisville, Ky.; Kansas City, Mo., and New Orleans, La. Chewing and smoking tobacco. No. 86,187; Apr. 16; Gaz. vol. 177; p. 767.
Vogue Company, The, New York, N. Y. Semimonthly magazine. No. 84,770; Jan. 2; Gaz. vol. 174; p. 284.
Voltite Company, Limited, The, Auckland, New Zealand. Electroplating-powder. No. 87,952; Aug. 13; Gaz. vol. 181; p. 538.
Volunteer Mfg. Company, Nashville, Tenn. Overalls, jumpers, coats, and trousers. No. 87,021; June 18; Gaz. vol. 179; p. 848.
Von Duprin Fire Exit Latch Company, Indianapolis, Ind. Locks and latches. No. 85,021; Jan. 16; Gaz. vol. 174; p. 825.
Voorhees Rubber Manufacturing Company, Jersey City, N. J. Hose made of rubber and fabric. Nos. 89,165–7; Nov. 12; Gaz. vol. 184; p. 547.
Vorl Company, The, Baltimore, Md. Flavoring compound. No. 89,168; Nov. 12; Gaz. vol. 184; p. 547.
Vragassy, Nicholaus, East St. Louis, Ill. Liniment. No. 88,037; Aug. 20; Gaz. vol. 181; p. 817.
Vrau & Cie. Ph., Lille, France. Linen thread. No. 89,075; Nov. 5; Gaz. vol. 184; p. 283.
Vulcan Asbestos Mfg. Co., New York, N. Y. Packing. No. 89,310; Dec. 3; Gaz. vol. 185; p. 246.
Vulcanite, Limited, Laganvale, Belfast, Ireland, and London, England. Certain construction materials. No. 86,763; May 28; Gaz. vol. 178; p. 1149.
Vulcanized Rubber Co., The, New York, N. Y. Rubber combs. No. 89,520; Dec. 17; Gaz. vol. 185; p. 825.
W. Bender Company, The, Jersey City, N. J. Carbonated beverages. No. 89,218; Dec. 3; Gaz. vol. 185; p. 243.
W. Schneider Wholesale Wine & Liquor Co., St. Louis, Mo. Whisky, keummel, brandy, &c. No. 89,069; Nov. 5; Gaz. vol. 184; p. 283.
W. A. Gaines & Company, Frankfort, Ky. Whisky. No. 88,484; Sept. 24; Gaz. vol. 182; p. 966.
W. A. Gaines & Company, Frankfort, Ky. Whisky. No. 89,644; Dec. 31; Gaz. vol. 185; p. 1374.
W. A. & J. C. Haartz, Inc., Boston, Mass. Waterproof cloth. No. 86,054; Apr. 9; Gaz. vol. 177; p. 520.
W. E. Pruden Hardware Co., New York, N. Y. Saws. No. 87,254; July 2; Gaz. vol. 180; p. 318.
W. F. Assau Canning Co., Baltimore, Md. Canned fruits and vegetables. No. 86,764; May 28; Gaz. vol. 178; p. 1149.
W. F. Assau Canning Co., Baltimore, Md. Canned fruits and vegetables. No. 88,046; Aug. 27; Gaz. vol. 181; p. 1067.
W. H. Dean Company, The, New York, N. Y. Aprons and dresses. No. 87,731; Aug. 6; Gaz. vol. 181; p. 260.
W. H. Harris Grocery Co., Richmond, Va. Canned fruits and vegetables. No. 88,280; Sept. 10; Gaz. vol. 182; p. 504.
W. H. Marvin Company, The, Urbana, Ohio. Mince-meat. No. 85,667; Mar. 5; Gaz. vol. 176; p. 270.
W. H. McElwain Company, Boston, Mass. Boots and shoes. No. 86,311; Apr. 30; Gaz. vol. 177; p. 1292.
W. & J. Sloane, New York, N. Y. Woven grass rugs. No. 86,469; May 7; Gaz. vol. 178; p. 316.
W. J. Wilson & Son, New Castle, Cal. Fresh deciduous fruits. No. 89,591; Dec. 24; Gaz. vol. 185; p. 1051.
W. L. Milner & Company, The, Toledo, Ohio. Certain pharmaceutical preparations. No. 86,815; June 4; Gaz. vol. 179; p. 282.
W. P. Fuller & Co., San Francisco, Cal. Building and insulating paper. No. 87,199; July 2; Gaz. vol. 180; p. 317.
W. S. Quinby Company, Boston, Mass. Tea. No. 85,681; Mar. 5; Gaz. vol. 176; p. 270.
W. T. Flather Limited, Sheffield, England. Steel, steel castings and forgings. No. 88,481; Sept. 24; Gaz. vol. 182; p. 966.
W. T. Flather Limited, Sheffield, England. Cast-steel. No. 88,482; Sept. 24; Gaz. vol. 182; p. 966.
W. T. Hanson Co., Schenectady, N. Y. Laxative pills. No. 86,987; June 18; Gaz. vol. 179; p. 847.
W. T. Smith & Son, Inc., Camden, N. J., and Philadelphia, Pa. Rugs, carpets, curtains, &c. No. 87,671; July 30; Gaz. vol. 180; p. 1389.
W. T. Welisch & Co., San Francisco, Cal. Rice. No. 87,695; July 30; Gaz. vol. 180; p. 1390.
Wabash Chemical Co., Terre Haute, Ind. Sheep-dip, germicide, vermicide, and antiseptic. No. 85,891; Mar. 26; Gaz. vol. 176; p. 1066.
Wach, Edward C., Chicago, Ill. Foot-powders. No. 89,311; Dec. 3; Gaz. vol. 185; p. 246.
Waclark Titanite Explosive Company, Corry, Pa. Blasting-powder. No. 86,647; May 21; Gaz. vol. 178; p. 881.
Wadhams Oil Company, Milwaukee, Wis. Lubricating-oils. No. 87,294; July 2; Gaz. vol. 180; p. 319.
Wadsworth, Howland & Co. Incorporated, Boston, Mass. Paints and varnishes. No. 87,692; July 30; Gaz. vol. 180; p. 1390.
Wagar, William H., Ballston Spa, N. Y. Certain named waters. No. 88,811; Oct. 22; Gaz. vol. 183; p. 1029.

Alphabetical list of registrants of trade-marks—Continued.

Wagner Baking Co., Detroit, Mich. Bread. No. 88,435; Sept. 17; Gaz. vol. 182; p. 718.
Wagner, Edward H., Mineral Wells, Tex. Laxative tablets. No. 86,256; Apr. 23; Gaz. vol. 177; p. 1040.
Wagner, Edward H., Mineral Wells, Tex. Certain medicine and pharmaceutical preparations. No. 87,130; June 25; Gaz. vol. 179; p. 1104.
Waite Thresher Company, Providence, R. I. Thimbles made of plated or precious metal. No. 88,436; Sept. 17; Gaz. vol. 182; p. 718.
Wakana, Kumajiro, Tokyo, Japan. Canned crabs. No. 86,012; Apr. 2; Gaz. vol. 177; p. 237.
Wakefield & Company, C. C., London, England. Oils for heating, lighting, and lubricating. No. 89,589; Dec. 24; Gaz. vol. 185; p. 1051.
Walberg, Albertina W., Springfield, Mass. Nerve-tonic and blood-purifier. No. 87,295; July 2; Gaz. vol. 180; p. 319.
Walcaline Company Inc., New York, N. Y. Certain preparation for cleaning and restoring walls and wall-paper. No. 88,603; Oct. 1; Gaz. vol. 183; p. 214.
Waldes & Cie., Prague-Wrschowitz, Austria-Hungary. Snap-buttons used as garment-fasteners. No. 86,648; May 21; Gaz. vol. 178; p. 881.
Waldes & Co., Prague-Wrschowitz, Austria-Hungary. Snap-buttons used as garment-fasteners. No. 89,401; Dec. 10; Gaz. vol. 185; p. 521.
Waldman, David P., New York, N. Y. Antiseptics. No. 86,490; May 7; Gaz. vol. 178; p. 317.
Walker & Co., James, assignor to James Walker and Company Limited, London, England. Machinery packing. No. 84,890; Jan. 9; Gaz. vol. 174; p. 581.
Walker-Henderson Art Co., Jewett, Tex. Chemical compounds for producing transparent pictures. No. 88,647; Oct. 8; Gaz. vol. 183; p. 500.
Wallace & Co., New York and Brooklyn, N. Y. Candies and chocolates. Nos. 89,722–4; Dec. 31; Gaz. vol. 185; p. 1376.
Wallace, Edwin C., Boston, Mass. Bituminous paving material. No. 87,504; July 16; Gaz. vol. 180; p. 876.
Wallach's Sons, J., New York, N. Y. Cigars. No. 87,505; July 16; Gaz. vol. 180; p. 876.
Wallin, Claude S., Peoria, Ill. Bread. No. 86,354; Apr. 30; Gaz. vol. 177; p. 1293.
Wallpaper Manufacturers Limited, The, London, England. Paper hangings. No. 89,521; Dec. 17; Gaz. vol. 185; p. 825.
Walsdorf, Edward H., New Orleans, La. Ant-exterminators. No. 89,402; Dec. 10; Gaz. vol. 185; p. 521.
Walsh, Edward J., St. Louis, Mo. Sheet-glass. No. 88,538; Sept. 24; Gaz. vol. 182; p. 967.
Walsh, John E., Washington, D. C. Whisky. No. 86,750; May 28; Gaz. vol. 178; p. 1149.
Walter E. Olsen & Company, Manila, Philippine Islands, and New York, N. Y. Cigars. No. 87,792; Aug. 6; Gaz. vol. 181; p. 261.
Walter E. Olsen & Company, Manila, Philippine Islands, and New York, N. Y. Cigars. Nos. 89,689–90; Dec. 31; Gaz. vol. 185; p. 1375.
Walter H. Hildick Co., New York, N. Y. Apple cider. No. 86,298; Apr. 30; Gaz. vol. 177; p. 1292.
Walter M. Lowney Company, The, Boston, Mass. Chocolate cream drops. No. 85,976; Apr. 2; Gaz. vol. 177; p. 236.
Walter M. Lowney Company, The, Boston, Mass. Candies. No. 87,898; Aug. 13; Gaz. vol. 181; p. 536.
Waltham Watch Company, Waltham and Boston, Mass. Watches and parts of watches. No. 86,188; Apr. 16; Gaz. vol. 177; p. 767.
Ward & Ward, Chicago, Ill. Cleanser, polisher, and finisher for wood. No. 85,299; Feb. 6; Gaz. vol. 175; p. 261.
Ward, William P., Brooklyn, N. Y. Remedy for coughs, colds, nervousness, and consumptives. No. 86,189; Apr. 16; Gaz. vol. 177; p. 767.
Ward-Young Mfg. Co., Buckhannon, W. Va. Peanuts. No. 89,725; Dec. 31; Gaz. vol. 185; p. 1376.
Ware Bros. Company, Philadelphia, Pa. Monthly magazine. No. 86,190; Apr. 16; Gaz. vol. 177; p. 767.
Warncke & Co., George L., Cannon Station, Conn. Cutworm-exterminator. No. 87,829; Aug. 6; Gaz. vol. 181; p. 262.
Warner, Adam D., Los Angeles, Cal. Food compositions. No. 87,953; Aug. 13; Gaz. vol. 181; p. 538.
Warner Bros. Co., The, Bridgeport, Conn. Corsets. No. 88,812; Oct. 22; Gaz. vol. 183; p. 1029.
Warner Remedy Company, Chicago, Ill. Veterinary remedy. No. 84,771; Jan. 2; Gaz. vol. 174; p. 284.
Warner's Safe Remedies Co., Rochester, N. Y. Remedies for certain diseases. No. 87,578; July 23; Gaz. vol. 180; p. 1135.
Warren Brothers Company, Boston, Mass. Bituminous cements and pavements. No. 85,780; Mar. 12; Gaz. vol. 176; p. 522.
Warren Chemical & Manufacturing Company, New York, N. Y. Pitch. Nos. 85,529–30; Feb. 20; Gaz. vol. 175; p. 840.
Warren Chemical & Manufacturing Company, New York, N. Y. Felts and papers for roofing, sheathing, waterproofing, &c. Nos. 86,191–2; Apr. 16; Gaz. vol. 177; p. 767.
Warren Chemical & Manufacturing Company, New York, N. Y. Roofing-felt. No. 87,385; July 9; Gaz. vol. 180; p. 599.
Warren Featherbone Company, Three Oaks, Mich. Stiffening cords, blades, and tapes. No. 85,209; Jan. 30; Gaz. vol. 174; p. 1215.
Warren Featherbone Company, The, Three Oaks, Mich. Stiffening cords, blades, and tapes. No. 85,629; Feb. 27; Gaz. vol. 175; p. 1095.
Warren Featherbone Company, The, Three Oaks, Mich. Stiffening cords, blades, and tapes. No. 87,386; July 9; Gaz. vol. 180; p. 599.
Warren Fruit Jar Co., Fairfield, Iowa. Glass fruit-jars. No. 88,716; Oct. 15; Gaz. vol. 183; p. 778.
Warren, Laura E., Cleveland, Ohio. Hair-grower. No. 85,208; Jan. 30; Gaz. vol. 174; p. 1215.
Warren, Northam, New York, N. Y. Liquid cuticle-remover. No. 86,257; Apr. 23; Gaz. vol. 177; p. 1040.
Warsaw-Wilkinson Company, Warsaw, N. Y. Ensilage-cutters. No. 88,649; Oct. 8; Gaz. vol. 183; p. 500.
Warshaw Brothers, New York, N. Y. Hair-tonic. No. 89,312; Dec. 3; Gaz. vol. 185; p. 246.
Washington Chemical Co., The, Ltd., Washington Station, England. Magnesia. No. 86,844; June 4; Gaz. vol. 179; p. 283.
Waterbury Company, New York, N. Y. Insulated wire. No. 88,223; Sept. 3; Gaz. vol. 182; p. 245.
Waterbury Company, New York, N. Y. Ropes. No. 88,539; Sept. 24; Gaz. vol. 182; p. 967.
Waterproof Engineering Company, Chicago, Ill. Waterproofing and damp-proofing paint. No. 85,929; Mar. 26; Gaz. vol. 176; p. 1067.
Watson, Porter, Giles & Company, New York, N. Y. Certain fancy goods, furnishings, and notions. No. 87,131; June 25; Gaz. vol. 179; p. 1104.
Watts Brothers Company, Inc., Lynchburg, Va. Outer and under shirts, drawers, hosiery, &c. No. 86,845; June 4; Gaz. vol. 179; p. 283.
Waxman, Percy, New York, N. Y. Monthly magazine. No. 84,891; Jan. 9; Gaz. vol. 174; p. 581.
Wayne Paper Goods Company, Fort Wayne, Ind. Paper bags. No. 85,781; Mar. 12; Gaz. vol. 176; p. 522.
Wear, Charles, Boston, Mass. Metallic packings. No. 85,210; Jan. 30; Gaz. vol. 174; p. 1215.
Wear, Charles, Boston, Mass. Friction-clutches. No. 85,300; Feb. 6; Gaz. vol. 175; p. 261.
Wear Knitting Co., Tryon, N. C. Hosiery. No. 85,211; Jan. 30; Gaz. vol. 174; p. 1215.
Webb, John, Jr., Lexington, Ky. Loose-leaf record. No. 89,726; Dec. 31; Gaz. vol. 185; p. 1376.
Webber & Company, Homer L., Wenona, Ill. Shampoo-paste. No. 86,846; June 4; Gaz. vol. 179; p. 283.
Weber, John, Jr., Des Moines, Iowa. Whisky. No. 86,969; June 11; Gaz. vol. 179; p. 570.
Weddle, Harold, New York, N. Y. Tea. No. 85,782; Mar. 12; Gaz. vol. 176; p. 522.
Weigell & Son, A., Milwaukee, Wis. Pillows. No. 87,387; July 9; Gaz. vol. 180; p. 599.
Weiler Manufacturing Co., Corsicana, Tex. Overalls, trousers, and jumpers. No. 88,985; Oct. 29; Gaz. vol. 183; p. 1305.
Weingarten Bros. Inc., New York, N. Y. Corsets. No. 85,301; Feb. 6; Gaz. vol. 175; p. 261.
Weingarten Bros., Inc., New York, N. Y. Corsets. No. 85,698; Mar. 5; Gaz. vol. 176; p. 270.
Weingarten Bros., Inc., New York, N. Y. Corset-covers, brassières, and sanitary aprons. No. 88,142; Aug. 27; Gaz. vol. 181; p. 1070.
Weinreben Fabrik Pharmaceutischer Präparate, Carl, Frankfort-on-the-Main, Germany. Preparation for preventing hardening of the arteries. No. 86,258; Apr. 23; Gaz. vol. 177; p. 1040.
Weir & Company, Ross W., New York, N. Y. Blended coffee. No. 87,296; July 2; Gaz. vol. 180; p. 319.
Weiss, Christian, Trossingen, Germany. Mouth-harmonicas and accordions. No. 89,590; Dec. 24; Gaz. vol. 185; p. 1051.
Weissenborn, Oscar A., Jersey City, N. J. Lead-pencils. Nos. 85,393–4; Feb. 13; Gaz. vol. 175; p. 539.
Wellman, George O., Jr., Chicago, Ill. Liniments. No. 87,023; June 18; Gaz. vol. 179; p. 848.
Welsbach Company, Gloucester City, N. J. Mantles. No. 85,050; Jan. 23; Gaz. vol. 174; p. 1023.
Welsbach Company, Gloucester City, N. J. Incandescent gas-lamps. No. 86,564; May 14; Gaz. vol. 178; p. 588.
Welwood, John C., New York, N. Y. Washable ribbons. No. 87,830; Aug. 6; Gaz. vol. 181; p. 262.
Wertheimer Bros., New York, N. Y. Knitted sweaters, bathing-suits, jerseys, &c. No. 87,506; July 16; Gaz. vol. 180; p. 876.
Wertheimer & Cie., E., Paris, France. Perfumes, face paints, and rouges. No. 86,649; May 21; Gaz. vol. 178; p. 881.
Wertheimer & Cie., E., Paris, France. Toilet powders. No. 89,313; Dec. 3; Gaz. vol. 185; p. 246.
West Disinfecting Company, New York, N. Y. Disinfecting fluid. No. 84,772; Jan. 2; Gaz. vol. 174; p. 284.
West Disinfecting Company, New York, N. Y. Deodorizers and disinfectants. No. 86,650; May 21; Gaz. vol 178; p. 881.

Alphabetical list of registrants of trade-marks—Continued.

West Disinfecting Company, New York, N. Y. Germicide, bactericide, and insecticide. No. 88,717; Oct. 15; Gaz. vol. 183; p. 779.
West, Edward H., Birmingham, Ala. Sheet metal. No. 87,132; June 25; Gaz. vol. 179; p. 1104.
West End Brewing Co., The, Utica, N. Y. Beer, ale, porter, half-and-half, and brown stout. No. 85,531; Feb. 20; Gaz. vol. 175; p. 840.
West India Oil Company, Bayonne, N. J. Illuminating-oil. No. 85,532; Feb. 20; Gaz. vol. 175; p. 840.
West India Oil Company, Bayonne, N. J. Gasolene, benzin, naphtha, and oil. No. 87,696; July 30; Gaz. vol. 180; p. 1390.
West India Oil Company, Bayonne, N. J. Gasolene and refined oil. No. 87,954; Aug. 13; Gaz. vol. 181; p. 538.
West India Oil Company, Bayonne, N. J. Refined petroleum. No. 88,392; Sept. 10; Gaz. vol. 182; p. 507.
West India Oil Company, Bayonne, N. J. Benzin, naphtha, and gasolene. No. 88,543; Sept. 24; Gaz. vol. 182; p. 968.
West India Oil Company, Bayonne, N. J. Gasolene, benzin, naphtha, and refined oil. No. 88,607; Oct. 1; Gaz. vol. 183; p. 215.
West Virginia Pulp & Paper Company, New York, N. Y. Book, printing, and lithographing paper. No. 88,038; Aug. 20; Gaz. vol. 181; p. 817.
Wester Bros., New York, N. Y. Razors, scissors, and pocket-knives. No. 85,302; Feb. 6; Gaz. vol. 175; p. 261.
Westerly Shirt Co., Westerly, R. I., and New York, N. Y. Shirts. Nos. 88,813–15; Oct. 22; Gaz. vol. 183; p. 1029.
Western Brick Company, Danville, Ill. Bricks. No. 86,013; Apr. 2; Gaz. vol. 177; p. 237.
Western Brick Company, Danville, Ill. Bricks. No. 86,193; Apr. 16; Gaz. vol. 177; p. 767.
Western Clock Manufacturing Co., Peru, Ill. Clocks and watches. No. 86,356; Apr. 30; Gaz. vol. 177; p. 1293.
Western Clock Manufacturing Co., The, Peru, Ill. Clocks and watches. No. 87,388; July 9; Gaz. vol. 180; p. 599.
Western Electric Company, Chicago, Ill., and New York, N. Y. Certain electrical apparatus. No. 86,194; Apr. 16; Gaz. vol. 177; p. 767.
Western Engraving & Embossing Co., Chicago, Ill. Paper, envelops, cards, &c. No. 89,314; Dec. 3; Gaz. vol. 185; p. 246.
Western Flour Mill Company, Davenport, Iowa. Wheat-flour. No. 85,699; Mar. 5; Gaz. vol. 176; p. 270.
Western Flour Mill Company, Davenport, Iowa, and New Prague, Minn. Wheat-flour. No. 85,930; Mar. 26; Gaz. vol. 176; p. 1067.
Western Grocer Company, Marshalltown, Iowa. Certain foods. No. 84,892; Jan. 9; Gaz. vol. 174; p. 581.
Western Grocer Company, Marshalltown, Iowa. Certain foods. No. 86,970; June 11; Gaz. vol. 179; p. 570.
Western Grocer Company, Marshalltown, Iowa. Certain foods. No. 87,955; Aug. 13; Gaz. vol. 181; p. 538.
Western Inspection Company, The, Buffalo, N. Y. Chemical fire-extinguishers. No. 88,039; Aug. 20; Gaz. vol. 181; p. 817.
Western Optical Manufacturing Company, St. Louis, Mo. Certain optical supplies. No. 86,651; May 21; Gaz. vol. 178; p. 881.
Weyerman, Firm of Johann B., Potsdam, Germany. Malt and beer. No. 87,956; Aug. 13; Gaz. vol. 181; p. 538.
Weyersberg Kirschbaum & Cie., Solingen, Germany. Hair-cutting machines. Nos. 88,650–1; Oct. 8; Gaz. vol. 183; p. 500.
Wheeler, Alonzo M., Chicago, Ill. Food remedies to build natural resistance of the body. No. 85,395; Feb. 13; Gaz. vol. 175; p. 539.
Wheeler Chemical Co. Inc., Lynchburg, Va. Alkaline solution for the treatment of catarrh. No. 86,849; June 4; Gaz. vol. 179; p. 283.
Wheeler Condenser & Engineering Co., Carteret, N. J. Condenser-tubes. No. 86,111; Apr. 9; Gaz. vol. 177; p. 521.
Wheeler, George W., Birmingham, Ala. Syrup for a soda-fountain beverage. No. 88,718; Oct. 15; Gaz. vol. 183; p. 779.
Wheeler and Motter Mercantile Company. (See Tootle, Wheeler & Motter Mer. Co., assignor.)
Wheeling Gum Company, Wheeling, W. Va. Chewing-gum. No. 86,491; May 7; Gaz. vol. 178; p. 317.
White, Almond J., Chillicothe, Mo. Certain pharmaceutical preparation. No. 86,850; June 4; Gaz. vol. 179; p. 283.
White & Bagley Co., The, Worcester, Mass. Motor oils and lubricants. No. 86,851; June 4; Gaz. vol. 179; p. 283.
White, Benjamin F., Rock Island, Ill. Ready-mixed paints. No. 88,816; Oct. 22; Gaz. vol. 183; p. 1029.
White Brothers, San Francisco, Cal. Veneered panels. No. 85,892; Mar. 26; Gaz. vol. 176; p. 1066.
White, Edward L., Boston, Mass. Leather for the uppers of boots and shoes. No. 86,195; Apr. 16; Gaz. vol. 177; p. 767.
White & Hoy, Gary, Ind. Hair-tonic. No. 85,630; Feb. 27; Gaz. vol. 175; p. 1095.
White Rats Actors' Union of America, New York, N. Y. Weekly periodicals. No. 84,773; Jan. 2; Gaz. vol. 174; p. 285.
White's Sons, S. R., Norfolk, Va. Certain agricultural implements and parts therefor. No. 88,040; Aug. 20; Gaz. vol. 181; p. 817.
White's Sons, S. R., Norfolk, Va. Plows and certain named parts thereof. No. 88,817; Oct. 22; Gaz. vol. 183; p. 1029.
White's Sons, S. R., Norfolk, Va. Plows and cultivators and parts therefor. No. 89,170; Nov. 12; Gaz. vol. 184; p. 547.
Whitinsville Spinning Ring Company, Whitinsville, Mass. Spinning and twister rings. No. 86,751; May 28; Gaz. vol. 178; p. 1149.
Whitman & Barnes Manufacturing Co., The, Akron, Ohio. Twist-drills. No. 86,259; Apr. 23; Gaz. vol. 177; p. 1040.
Whitman & Co., Clarence, New York, N. Y. Flannel piece goods. No. 88,143; Aug. 27; Gaz. vol. 181; p. 1070.
Whitmore, Geo. C., Leadville, Colo. Laxative and cathartic remedy. No. 87,024; June 18; Gaz. vol. 179; p. 848.
Whittemore, Horace A., Boston, Mass. Fishing-rods, swivels, and sinkers. No. 85,396; Feb. 13; Gaz. vol. 175; p. 539.
Whitworth, Charles S., Cedar Falls, Iowa. Traction-engine guides. No. 89,317; Dec. 3; Gaz. vol. 185; p. 246.
Wick Narrow Fabric Company, Philadelphia, Pa. Flannel piece goods. No. 87,025; June 18; Gaz. vol. 179; p. 848.
Widlar & Co., F., Cleveland, Ohio. Roasted coffee. No. 85,303; Feb. 6; Gaz. vol. 175; p. 261.
Widlar & Co., F., Cleveland, Ohio. Certain foods. No. 85,931; Mar. 26; Gaz. vol. 176; p. 1067.
Wiedeke and Company, Gustav, Dayton, Ohio. Tube and flue expanders and cutters. No. 86,852; June 4; Gaz. vol. 179; p. 283.
Wiegand, Nelson M., Truxton, N. Y. Dyspepsia-tablets. No. 87,579; July 23; Gaz. vol. 180; p. 1135.
Wieland Bros., San Francisco, Cal. Pimentos. Nos. 88,437–8; Sept. 17; Gaz. vol. 182; p. 718.
Wiener Machinery Co., New York, N. Y. Machine-tools. No. 86,014; Apr. 2; Gaz. vol. 177; p. 237.
Wigglesworth, George, *et al.*, trustees. (See Amoskeag Manufacturing Company, assignor.)
Wil-Mar Bottling Co., The, Baltimore, Md. Certain flavored soda. No. 85,023; Jan. 16; Gaz. vol. 174; p. 826.
Wilcox Co., The, Providence, R. I. General tonic. No. 88,986; Oct. 29; Gaz. vol. 183; p. 1305.
Wilcox Comb Company, Inc., Keene, N. H. Combs, barrettes, and hair-retainers. No. 85,304; Feb. 6; Gaz. vol. 175; p. 261.
Wilcox & White Company, The, Meriden, Conn. Perforated music-sheets for mechanical music-playing instruments. No. 85,894; Mar. 26; Gaz. vol. 176; p. 1066.
Wildman Mfg. Co., Norristown, Pa. Knitting and cloth-cutting machines, &c. No. 85,700; Mar. 5; Gaz. vol. 176; p. 270.
Wile, Sons & Co., Julius, New York, N. Y. Sherry-wine. No. 86,492; May 7; Gaz. vol. 178; p. 317.
Wilentz Company, The, Perth Amboy, N. J. Smoking-tobacco. No. 87,831; Aug. 6; Gaz. vol. 181; p. 263.
Wilh. Hebebrand, G. m. b. H., Elberfeld, Germany. Mercerized embroidery-cotton. No. 85,581; Feb. 27; Gaz. vol. 175; p. 1094.
Wilkening, Gustav, Crete, Ill. Adhesive for mending leaks. No. 85,022; Jan. 16; Gaz. vol. 174; p. 826.
Wilkinson, Harris C., Chicago, Ill. Chewing-gum. No. 87,297; July 2; Gaz. vol. 180; p. 319.
Willcox & Gibbs Sewing Machine Co., New York, N. Y. Sewing-machines, their parts and attachments. No. 86,853; June 4; Gaz. vol. 179; p. 283.
Willett, Walter M., San Francisco, Cal. Certain pharmaceutical preparations. No. 86,493; May 7; Gaz. vol. 178; p. 317.
Willett, Walter M., San Francisco, Cal. Toilet powder. No. 88,604; Oct. 1; Gaz. vol. 183; p. 214.
William A. Force & Company, Inc., New York, N. Y. Numbering and dating machines. No. 88,268; Sept. 10; Gaz. vol. 182; p. 504.
William B. Hough Company, Chicago, Ill. Certain construction materials. No. 88,680; Oct. 15; Gaz. vol. 183; p. 777.
William H. Brown & Bro. Co., Baltimore, Md. Talcum and sachet powders, cold-cream, and perfumes. No. 89,092; Nov. 12; Gaz. vol. 184; p. 545.
William Hollins & Company, Limited, London, England. Cloth or shirting. No. 87,210; July 2; Gaz. vol. 180; p. 317.
William J. Brewer Engg. Co., Washington, D. C. Anti-friction roller-bearings. No. 89,439; Dec. 17; Gaz. vol. 185; p. 823.
William L. Barrell Co., New York, N. Y.; Boston and Lawrence, Mass.; Chicago, Ill., and St. Louis, Mo. Duck. No. 84,809; Jan. 9; Gaz. vol. 174; p. 579.
William L. Barrell Co., New York, N. Y.; Boston and Lawrence, Mass.; Chicago, Ill., and St. Louis, Mo. Duck. No. 84,895; Jan. 9; Gaz. vol. 174; p. 582.
William L. Barrell Co., New York, N. Y. Canvas roofing. No. 87,145; July 2; Gaz. vol. 180; p. 315.
William Link Company, Newark, N. J. Jewelry and precious-metal ware. No. 86,603; May 21; Gaz. vol. 178; p. 880.

Alphabetical list of registrants of trade-marks—Continued.

William Link Company, Newark, N. J. Jewelry and precious-metal ware. No. 86,718; May 28; Gaz. vol. 178; p. 1148.
William Link Company, Newark, N. J. Jewelry, hollow and flat ware, knives, forks, and spoons. No. 89,476; Dec. 17; Gaz. vol. 185; p. 824.
William Mitchell (Pens) Limited, Birmingham, England. Steel and metallic pens. No. 87,787; Aug. 6; Gaz. vol. 181; p. 261.
William R. Warner and Company, Philadelphia, Pa. Antiseptic tablets. No. 88,605; Oct. 1; Gaz. vol. 183; p. 214.
William R. Warner and Company, Philadelphia, Pa. Alterative, diuretic, and antacid. No. 88,606; Oct. 1; Gaz. vol. 183; p. 214.
William S. Scull Company, Camden, N. J. Coffee. No. 85,688; Mar. 5; Gaz. vol. 176; p. 270.
William S. Scull Company, Camden, N. J. Coffee. No. 85,832; Mar. 19; Gaz. vol. 176; p. 746.
William Wolff & Co., San Francisco, Cal. Fresh olive-oil. No. 89,522; Dec. 17; Gaz. vol. 185; p. 825.
Williams Bros. Co., The, Cleveland, Ohio. Tomato catsup. No. 89,076; Nov. 5; Gaz. vol. 184; p. 283.
Williams, Frank C., Easton, Pa. Prepared poultry food. No. 86,971; June 11; Gaz. vol. 179; p. 570.
Williams, Frank C., Easton, Pa. Wheat-flour. No. 88,144; Aug. 27; Gaz. vol. 181; p. 1070.
Williams, James P., Brooklyn, N. Y. Soda-water drink. No. 88,988; Oct. 29; Gaz. vol. 183; p. 1305.
Williams, John C., Chicago, Ill. Insoles for footwear. No. 88,394; Sept. 10; Gaz. vol. 182; p. 507.
Williams Organ & Piano Co., Chicago, Ill. Organs and pianos. No. 86,112; Apr. 9; Gaz. vol. 177; p. 521.
Williams Patent Crusher and Pulverizer Company, St. Louis, Mo. Certain kinds of machinery. No. 85,932; Mar. 26; Gaz. vol. 176; p. 1067.
Williams Remedy Co., Ty Ty, Ga. Remedy for certain diseases. No. 85,718; Mar. 5; Gaz. vol. 176; p. 271.
Williams, Robert L., McDade, Tex. Portable furnaces. No. 85,631; Feb. 27; Gaz. vol. 175; p. 1095.
Williamson-Halsell-Frasier Co., The, Oklahoma, Okla. Certain foods. No. 87,698; July 30; Gaz. vol. 180; p. 1390.
Willis & Co., W. P., New York, N. Y. Open-weave cloth. No. 86,972; June 11; Gaz. vol. 179; p. 570.
Wilmsen, Bernhard, Philadelphia, Pa. Toys. No. 87,298; July 2; Gaz. vol. 180; p. 319.
Wilson Chemical Co., Council Bluffs, Iowa. Floor-sweeping compound. No. 85,893; Mar. 26; Gaz. vol. 176; p. 1066.
Wilson Distilling Company, The, Jersey City, N. J. Whisky. No. 88,818; Oct. 22; Gaz. vol. 183; p. 1029.
Wilson, George C., Tyrone, Pa. Talcum powder. No. 85,397; Feb. 13; Gaz. vol. 175; p. 539.
Wilson & Wineman, Auburn, Ill. Metal-polish. No. 85,783; Mar. 12; Gaz. vol. 176; p. 522.
Windsor Chocolate Company, Philadelphia, Pa. Candies. No. 85,533; Feb. 20; Gaz. vol. 175; p. 841.
Windsor Chocolate Company, Philadelphia, Pa. Candy. No. 85,784; Mar. 12; Gaz. vol. 176; p. 523.
Windsor Chocolate Company, Philadelphia, Pa. Candy. No 85,933; Mar. 26; Gaz. vol. 176; p. 1067.
Wineke-Bauernschmidt Co., of Balto. City, Baltimore, Md. Whisky. No. 85,787; Mar. 12; Gaz. vol. 176; p. 523.
Wireless Specialty Apparatus Co., New York, N. Y. Electrical repeating relays. No. 85,212; Jan. 30; Gaz. vol. 174; p. 1215.
Wittig & Co., F., Milwaukee, Wis. Charcoal and coke. No. 86,015; Apr. 2; Gaz. vol. 177; p. 237.
Wizard Phonograph Co., Newark, N. J. Phonographs and parts thereof. No. 87,507; July 16; Gaz. vol. 180; p. 876.
Wizard Products Co., Chicago, Ill. Sweeping compounds. No. 87,834; Aug. 6; Gaz. vol. 181; p. 263.
Wm. A. French & Company, Minneapolis, Minn. Certain kinds of furniture. No. 87,198; July 2; Gaz. vol. 180; p. 316.
Wm. A. Stickney Cigar Co., St. Louis, Mo. Cigars. No. 86,630; May 21; Gaz. vol. 178; p. 881.
Wm. C. Robinson & Son, Co., Baltimore, Md., and Coraopolis, Pa. Cylinder and engine oil. No. 85,997; Apr. 2; Gaz. vol. 177; p. 236.
Wm. C. Robinson & Son, Co., Baltimore, Md., and Coraopolis, Pa. Cylinder-oil. No. 85,998; Apr. 2; Gaz. vol. 177; p. 237.
Wm. C. Robinson & Son, Co., Baltimore, Md., and Coraopolis, Pa. Engine-oil. No. 85,999; Apr. 2; Gaz. vol. 177; p. 237.
Wm. C. Robinson & Son, Co., Baltimore, Md., and Coraopolis, Pa. Valve-oil. No. 86,000; Apr. 2; Gaz. vol. 177; p. 237.
Wm. C. Robinson & Son, Co., Baltimore, Md., and Coraopolis, Pa. Cylinder-oil. No. 86,618; May 21; Gaz. vol. 178; p. 880.
Wm. Corry & Co., Limited, Belfast, Ireland. Non-alcoholic beverage. No. 88,400; Sept. 17; Gaz. vol. 182; p. 717.
Wm. Enders Manufacturing Company, Walden, N. Y. Abrasive, detergent, and polishing materials. No. 87,057; June 25; Gaz. vol. 179; p. 1102.
Wm. Enders Manufacturing Company, Walden, N. Y., and St. Louis, Mo. Certain sporting goods. No. 87,183; July 2; Gaz. vol. 180; p. 316.
Wm. Enders Manufacturing Company, Walden, N. Y. Certain named measuring and scientific appliances. No. 89,240; Dec. 3; Gaz. vol. 185; p. 243.
Wm. H. Brown & Bro. Co., Baltimore, Md. Talcum and sachet powders, cold-creams, and perfumes. No. 89,221; Dec. 3; Gaz. vol. 185; p. 243.
Wm. H. Horstmann Company, Philadelphia, Pa. Artificial-silk yarn. No. 84,832; Jan. 9; Gaz. vol. 174; p. 580.
Wm. R. Gratz Import Co., New York, N. Y. Musical instruments and supplies. No. 86,585; May 21; Gaz. vol. 178; p. 879.
Wm. R. Moore Dry Goods Co., Memphis, Tenn. Shirts. Nos. 88,773–4; Oct. 22; Gaz. vol. 183; p. 1028.
Wm. R. Moore Dry Goods Company, Memphis, Tenn. Hosiery. No. 87,466; July 16; Gaz. vol. 180; p. 875.
Wm. Wotherspoon, Ltd., Paisley, Scotland. Certain adhesives. No. 87,510; July 16; Gaz. vol. 180; p. 876.
Wolf, Charles A., Philadelphia, Pa. Medicament for epilepsy. No. 87,299; July 2; Gaz. vol. 180; p. 319.
Wolf Company, The, New York, N. Y. Ladies' gowns. No. 85,536; Feb. 20; Gaz. vol. 175; p. 841.
Wolfe, Nathaniel, Philadelphia, Pa. Cold-cream. No. 85,632; Feb. 27; Gaz. vol. 175; p. 1095.
Wolverine Marine Company, Grand Rapids, Mich. Steering-gear for certain vehicles. No. 87,835; Aug. 6; Gaz. vol. 181; p. 263.
Wolverine Motor Works, Bridgeport, Conn. Internal-combustion engines and clutches. Nos. 86,752–3; May 28; Gaz. vol. 178; p. 1149.
Wood, Dorithy D., Kansas City, Mo. Hair-tonic. No. 86,494; May 7; Gaz. vol. 178; p. 317.
Wood, J. Early, New York, N. Y. Periodical publication. No. 85,785; Mar. 12; Gaz. vol. 176; p. 523.
Woodbury Shoe Company, Beverly, Mass. Boots, shoes, and slippers. No. 88,041; Aug. 20; Gaz. vol. 181; p. 817.
Woodfield, Della (Robart), Wellsville, N. Y. Coffee substitute. No. 87,958; Aug. 13; Gaz. vol. 181; p. 538.
Wooding & Teasdale, Leicester, England. Certain named clothing. No. 88,819; Oct. 22; Gaz. vol. 183; p. 1029.
Woodington Manufacturing Company, Philadelphia, Pa. Metal-polish. No. 87,509; July 16; Gaz. vol. 180; p. 876.
Woods, Homer A., Indianapolis, Ind. Bread and cereal breakfast food. No. 89,077; Nov. 5; Gaz. vol. 184; p. 283.
Worrell, Lillie B., Dayton, Ohio. Candy. No. 85,842; Mar. 19; Gaz. vol. 176; p. 746.
Worthington, William F., San Francisco, Cal. Skin-salve, and a remedy for seasickness. No. 86,260; Apr. 23; Gaz. vol. 177; p. 1040.
Worumbo Manufacturing Company, Lisbon Falls, Me. Woven woolen fabric. No. 85,633; Feb. 27; Gaz. vol. 175; p. 1095.
Wovenright Knitting Company, The, Cleveland, Ohio. Hosiery. No. 87,389; July 9; Gaz. vol. 180; p. 599.
Wren, Charles F., Cleveland, Ohio. Elastic tires. No. 86,196; Apr. 16; Gaz. vol. 177; p. 767.
Wright & Ditson, Jersey City, N. J., and Boston, Mass. Golf-clubs. No. 87,300; July 2; Gaz. vol. 180; p. 319.
Wright & Ditson, Jersey City, N. J., and Boston, Mass. Golf-balls. No. 87,301; July 2; Gaz. vol. 180; p. 319.
Wright & Ditson, Jersey City, N. J., and Boston, Mass. Golf-balls. No. 87,390; July 9; Gaz. vol. 180; p. 599.
Wright, Horace P., Springfield, Mass. Cigars. No. 88,719; Oct. 15; Gaz. vol. 183; p. 779.
Wülfing, Firm of Johann A., Berlin, Germany. Disinfectant and astringent remedy. No. 84,922; Jan. 9; Gaz. vol. 174; p. 582.
Wülfing, Johann A., Berlin, Germany. Certain prepared form of milk. No. 85,786; Mar. 12; Gaz. vol. 176; p. 523.
Wyoming Shovel Works, The, Wyoming, Pa. Shovels. No. 89,728; Dec. 31; Gaz. vol. 185; p. 1377.
Yager & Co., H. L., Monroe City, Mo. Corn remedy. No. 89,403; Dec. 10; Gaz. vol. 185; p. 521.
Yale Novelty Company, Leominster, Mass. Certain receptacles. No. 87,511; July 16; Gaz. vol. 180; p. 876.
Yale Soap & Refining Company, The, Cincinnati, Ohio. Laundry soap. No. 89,172; Nov. 12; Gaz. vol. 184; p. 547.
Yale Soap & Refining Company, The, Cincinnati, Ohio. Laundry soap. No. 89,592; Dec. 24; Gaz. vol. 185; p. 1051.
Yardley Mills Company, Yardley, Pa. Wheat-flour. No. 88,439; Sept. 17; Gaz. vol. 182; p. 718.
Yates, Charles H., Toledo, Ohio. Face creams and powders. No. 89,404; Dec. 10; Gaz. vol. 185; p. 521.
Yawman & Erbe Manufacturing Co., Rochester, N. Y. Paper-files. No. 84,775; Jan. 2; Gaz. vol. 174; p. 285.
Yetter, Jacob, Jacksonville, Fla. Coats, vests, trousers, &c. No. 86,754; May 28; Gaz. vol. 178; p. 1149.
York, Chauncey F., Detroit, Mich. Pills for certain diseases, No. 85,538; Feb. 20; Gaz. vol. 175; p. 841.
York, Chauncey F., Detroit, Mich. Pills for certain diseases. No. 85,719; Mar. 5; Gaz. vol. 176; p. 271.

Alphabetical list of registrants of trade-marks—Continued.

York Novelty Co., York, Pa. Children's sleds. No. 86,016; Apr. 2; Gaz. vol. 177; p. 237.
York Safe and Lock Co., York, Pa. Safes and vault-doors. No. 87,302; July 2; Gaz. vol. 180; p. 319.
Yorke Shirt Co., The, Glens Falls and New York, N. Y. Shirts. No. 89,729; Dec. 31; Gaz. vol. 185; p. 1377.
Young Remedy Company, St. Louis, Mo. Nerve and blood remedy. No. 85,634; Feb. 27; Gaz. vol. 175; p. 1095.
Yours Truly Company. (See Clague, Stanley, assignor.)
Z-Only Co., Norwich, N. Y. Razor-strop dressing. No. 85,635; Feb. 27; Gaz. vol. 175; p. 1095.
Zan Bros. Inc., Portland, Oreg. Brooms. No. 87,303; July 2; Gaz. vol. 180; p. 319.
Zarnits Bros. Grocery Co., Wheeling, W. Va. Matches. No. 89,405; Dec. 10; Gaz. vol. 185; p. 521.
Zarnits Bros. Grocery Co., Wheeling, W. Va. Certain named foods. No. 89,523; Dec. 17; Gaz. vol. 185; p. 825.
Zeiss, Carl, Jena, Germany. Objective-lens systems. Nos. 85,306–8; Feb. 6; Gaz. vol. 175; p. 261.
Zeiss, Carl, Jena, Germany. Field-glasses. Nos. 85,309–10; Feb. 6; Gaz. vol. 175; p. 262.
Zeiss, Carl, Jena, Germany. Certain optical goods. No. 85,539; Feb. 20; Gaz. vol. 175; p. 841.
Zenith Embroidery Co., New York, N. Y. Embroideries. No. 86,197; Apr. 16; Gaz. vol. 177; p. 767.
Ziegler, Edward, Jersey City, N. J. Certain pharmaceutical preparations. No. 86,653; May 21; Gaz. vol. 178; p. 881.
Ziegler, Edward, Jersey City, N. J. Remedies for corns, bunions, and warts. No. 86,654; May 21; Gaz. vol. 178; p. 881.
Ziemssen, Anna K., Philadelphia, Pa. Hair-oils and unguents. No. 86,855; June 4; Gaz. vol. 179; p. 283.
Zientek, Joseph, Chicago, Ill. Remedies for kidney ailments. No. 87,581; July 23; Gaz. vol. 180; p. 1135.
Zientek, Joseph, Chicago, Ill. Remedy for lung and stomach diseases. No. 89,319; Dec. 3; Gaz. vol. 185; p. 246.
Zimmer, Walter W., Dayton, Ohio. Tooth-paste. No. 89,730; Dec. 31; Gaz. vol. 185; p. 1377.
Zimmerman & Zimmerman, Inc., Philadelphia, Pa. Rubber vehicle tires and tubes. No. 87,959; Aug. 13; Gaz. vol. 181; p. 538.
Zimmern's Co., J., Mobile, Ala. Stock and poultry feed. No. 85,934; Mar. 26; Gaz. vol. 176; p. 1067.
Zing Sales Company, Pittsburgh, Pa. Remedy for corns, calli, and bunions. No. 88,652; Oct. 8; Gaz. vol. 183; p. 500.
Zinsser, William H., New York, N. Y. White gum-shellac. No. 85,540; Feb. 20; Gaz. vol. 175; p. 841.

ALPHABETICAL LIST OF REGISTRANTS OF LABELS.

A. Silz, Inc., New York, N. Y. "Deer Brand Fancy Sugar Cured Ham." (For Prepared Ham.) No. 16,348; May 28; Gaz. vol. 178; p. 1150.

A. Silz, Inc., New York, N. Y. "Deer Brand Fancy Sugar Cured Bacon." (For Prepared Bacon.) No. 16,349; May 28; Gaz. vol. 178; p. 1150.

A. Wilhelm Company, The, Reading, Pa. "Tenforone." (For Calcimine.) No. 16,295; Apr. 23; Gaz. vol. 177; p. 1041.

A. A. Stone Company, The, Cleveland, Ohio. "Photo-Posters." (For Photo-Posters.) No. 16,503; Aug. 6; Gaz. vol. 181; p. 264.

A. J. Reach Company, Philadelphia, Pa. "The Cork Center Official Ball." (For Base-Balls.) No. 16,477; July 23; Gaz. vol. 180; p. 1136.

Ackerman, Robert M., Binghamton, N. Y. "E. Harrison's Chewing Gum." (For Chewing-Gum.) No. 16,113; Jan. 23; Gaz. vol. 174; p. 1024.

Ackerman, Robert M., Binghamton, N. Y. "Harrison's Pepsin Chewing Gum." (For Chewing-Gum.) No. 16,185; Feb. 27; Gaz. vol. 175; p. 1096.

Adams, Chas. E., North Vernon, Ind. "Butter-Krust." (For Bread.) No. 16,702; Dec. 24; Gaz. vol. 185; p. 1052.

Adler Underwear & Hosiery Mfg. Co., The, Cincinnati, Ohio. "Eagle Brand Sweater Shirt." (For Shirts and Sweaters.) No. 16,373; June 11; Gaz. vol. 179; p. 571.

Adrian & Venn Co., Pittsburgh, Pa. "Persian Balm." (For a Skin-Tonic.) No. 16,309; Apr. 30; Gaz. vol. 177; p. 1294.

Albrecht, Wilhelm, Boston, Mass. "Top Sail." (For Ale.) No. 16,487; Aug. 6; Gaz. vol. 181; p. 264.

Alden Mineral Water Company, Buffalo and Alden, N. Y. "Aldena Water." (For Water.) No. 16,561; Sept. 10; Gaz. vol. 182; p. 508.

Alexander & Co., L. & M., San Francisco, Cal. "Silk Tape." (For Type-Writer Ribbons.) No. 16,359; May 28; Gaz. vol. 178; p. 1150.

Alghieri Chef, Inc., Dover, Del., and Cambridge, Mass. "Alghieri's Soup." (For Soup.) No. 16,366; June 4; Gaz. vol. 179; p. 284.

Allen, Lewis C., Parkersburg, W. Va. "Lollah." (For a Ration or Lunch.) No. 16,674; Dec. 10; Gaz. vol. 185; p. 523.

Allentown Manufacturing Company, The, Allentown, Pa. "Granite Prepared Paint." (For Liquid House-Paint.) No. 16,114; Jan. 23; Gaz. vol. 174; p. 1024.

Alvarez, Luisa M. I. de, Puerto de Santa Maria, Spain. "Serafin Alvarez." (For Wine.) No. 16,326; May 7; Gaz. vol. 178; p. 318.

American Ammone Company, New York, N. Y. "Bath Amone." (For Toilet Compounds.) No. 16,115; Jan. 23; Gaz. vol. 174; p. 1024.

American Biscuit Co., San Francisco, Cal. "Panama Creams." (For Crackers.) No. 16,416; June 25; Gaz. vol. 179; p. 1105.

American Lithographic Company, New York, N. Y. "Private Stock." (For Cigars.) No. 16,310; Apr. 30; Gaz. vol. 177; p. 1294.

American Lithographic Company, New York, N. Y. "Elegantes Quality Cigars." (For Cigars.) No. 16,567; Oct. 1; Gaz. vol. 183; p. 216.

American Lithographic Company, New York, N. Y. "Cigars of Quality Flor Fina." (For Cigars.) No. 16,568; Oct. 1; Gaz. vol. 183; p. 216.

American Lithographic Company, New York, N. Y. "Quality Cigars." (For Cigars.) No. 16,569; Oct. 1; Gaz. vol. 183; p. 216.

American Lithographic Company, New York, N. Y. "Superior Cigars." (For Cigars.) No. 16,570; Oct. 1; Gaz. vol. 183; p. 216.

American Lithographic Company, New York, N. Y. "Superior Cigars." (For Cigars.) Nos. 16,675–6; Dec. 10; Gaz. vol. 185; p. 523.

American Mechanical Toy Company, The, Dayton, Ohio. "The American Model Builder." (For Mechanical Parts.) No. 16,431; July 2; Gaz. vol. 180; p. 320.

American "Radio-Thor-'X'" Company, The, Chicago, Ill. "Tho-Rad-'X.'" (For Tablets.) No. 16,631; Nov. 5; Gaz. vol. 184; p. 284.

American Radio Thor "X" Co., The, Chicago, Ill. "Radium Table Salt." (For Table Salt.) No. 16,718; Dec. 31; Gaz. vol. 185; p. 1378.

American Radio Thor "X" Co., The, Chicago, Ill. "Radium Beauty Cream." (For Face-Cream.) No. 16,719; Dec. 31; Gaz. vol. 185; p. 1378.

American Radio Thor "X" Co., The, Chicago, Ill. "Radium Moor Mud." (For Radio-Active Mud.) No. 16,720; Dec. 31; Gaz. vol. 185; p. 1378.

Amiess, Frederick C., St. Louis, Mo. "Solidified Honey." (For Honey.) No. 16,396; June 18; Gaz. vol. 179; p. 849.

Ampt, Charles F., Cincinnati, Ohio. "Ampt's Toasted Corn Dainties." (For Toasted Corn-Flakes.) No. 16,374; June 11; Gaz. vol. 179; p. 571.

Angelus Company, The, Pasadena, Cal. "Aloa Brand." (For Fresh Fruit Flavors.) No. 16,336; May 14; Gaz. vol. 178; p. 589.

Arcadia Food Company, New York, N. Y. "Easy Jell." (For Jelly-Powder.) No. 16,116; Jan. 23; Gaz. vol. 174; p. 1024.

Arey, Charles, Washington, D. C. "Old Rosslyn Rye." (For Whisky.) No. 16,341; May 21; Gaz. vol. 178; p. 883.

Armour and. Company, Chicago, Ill. "Farola." (For Washing-Powder.) No. 16,677; Dec. 10; Gaz. vol. 185; p. 523.

Armstrong Cork Company, Pittsburgh, Pa. "Nonpareil Medium Pressure Cement." (For Cement.) No. 16,117; Jan. 23; Gaz. vol. 174; p. 1024.

Armstrong Cork Company, Pittsburgh, Pa. "Nonpareil Low Pressure Cement." (For Cement.) No. 16,118; Jan. 23; Gaz. vol. 174; p. 1024.

Armstrong Cork Company, Pittsburgh, Pa. "Nonpareil Finishing Cement." (For Cement.) No. 16,119; Jan. 23; Gaz. vol. 174; p. 1024.

Armstrong Cork Company, Pittsburgh, Pa. "Nonpareil High Pressure Cement." (For Cement.) No. 16,120; Jan. 23; Gaz. vol. 174; p. 1024.

Arthur Boomhower Corporation, New York, N. Y. "Sunfast Carpet." (For Carpet.) No. 16,706; Dec. 24; Gaz. vol. 185; p. 1052.

Asa Company, The, Frankfort, Ohio. "Sam Sutherland Salve." (For Salve.) No. 16,678; Dec. 10; Gaz. vol. 185; p. 523.

Austin, A. A., San Antonio, Tex. "Sunny South Sun-Kisst." (For Chewing-Gum.) No. 16,659; Nov. 26; Gaz. vol. 184; p. 1071.

Austin, A. A., San Antonio, Tex. "Texas Sun-Shine." (For Chewing-Gum.) No. 16,660; Nov. 26; Gaz. vol. 184; p. 1071.

Austin, Nichols & Co., New York, N. Y. "Blue Diamond." (For Coffee.) No. 16,703; Dec. 24; Gaz. vol. 185; p. 1052.

Babcock, Townsend H., Unadilla, N. Y. "Babcock's Cough Syrup, A Specific for Coughs, Colds and Affections of the Throat and Lungs." (For Medicines.) No. 16,704; Dec. 24; Gaz. vol. 185; p. 1052.

Ballard, James F., St. Louis, Mo. "Remick's Eczema Remedy." (For Remedy.) No. 16,150; Feb. 6; Gaz. vol. 175; p. 263.

Ballard, James F., St. Louis, Mo. "McGee's Baby Elixir." (For a Medicinal Preparation.) No. 16,151; Feb. 6; Gaz. vol. 175; p. 263.

Beals, Mary A., San Francisco, Cal. "'49 Camp' Gold Quartz." (For Gold Quartz.) No. 16,595; Oct. 8; Gaz. vol. 183; p. 501.

Beck & Farra, Wilmington, Del. "Noxagerm." (For a Germ-Killer.) No. 16,650; Nov. 12; Gaz. vol. 184; p. 548.

Bentley, George G., Chateaugay, N. Y. "Bentley's Louse Killer." (For Preparation to Relieve All Kinds of Animals from Vermin.) No. 16,105; Jan. 16; Gaz. vol. 174; p. 827.

Berndt & Co., Baltimore, Md. "Juno Maté." (For South American Tea.) No. 16,432; July 2; Gaz. vol. 180; p. 320.

Biddle, Walter S., Wilkes-Barre, Pa. "Clarus." (For an Antiseptic Skin-Lotion.) No. 16,705; Dec. 24; Gaz. vol. 185; p. 1052.

Blackman-Morris Co., New Orleans, La. "Purity Brand Pure Louisiana Cane Syrup." (For Cane-Syrup.) No. 16,472; July 23; Gaz. vol. 180; p. 1136.

Blackmon, Charles D., Rochester, N. Y. "Scout Gum." (For Chewing-Gum.) No. 16,679; Dec. 10; Gaz. vol. 185; p. 523.

Boener Bros., Lawrence, Kans. "Golden Anchor." (For Cigars.) No. 16,296; Apr. 23; Gaz. vol. 177; p. 1041.

Bolling, John B., Beaver Dam, Ky. "We-Ho Improved." (For Medicine.) No. 16,177; Feb. 20; Gaz. vol. 175; p. 842.

Bottolfson, William P., Vancouver, British Columbia, Canada. "Sumore Biscuit." (For Biscuit.) No. 16,209; Mar. 5; Gaz. vol. 176; p. 272.

Bottolfson, William P., Vancouver, British Columbia, Canada. "Sumore Flour." (For Flour.) No. 16,210; Mar. 5; Gaz. vol. 176; p. 272.

Alphabetical list of registrants of labels—Continued.

Breisch & Co., Christian, North Lansing, Mich. "White Poppy." (For Flour.) No. 16,212; Mar. 5; Gaz. vol. 176; p. 272.
Brown, Anthony W., Schenectady, N. Y. "Mothers Only Hope." (For a Remedy for Croup.) No. 16,613; Oct. 29; Gaz. vol. 183; p. 1306.
Brown Durrell Co., New York, N. Y. "Round Ticket Stocking." (For Stockings.) No. 16,211; Mar. 5; Gaz. vol. 176; p. 272.
Brown Stamping Company, The, Toledo, Ohio. "Brown's High Grade Metal Ware." (For Sheet-Metal Ware.) No. 16,417; June 25; Gaz. vol. 179; p. 1105.
Buckley, Warren, Phoenix, La. "Winner Brand." (For Fruit and Vegetables.) No. 16,661; Nov. 26; Gaz. vol. 184; p. 1071.
Buckman Springs Lithia Water Co., San Diego, Cal. "Buckman Mineral Water." (For Mineral Water.) No. 16,523; Aug. 27; Gaz. vol. 181; p. 1071.
Bunte Brothers, Chicago, Ill. "Bunte Menthol-Horehound Cough Drops." (For Cough-Drops.) Nos. 16,707–8; Dec. 24; Gaz. vol. 185; p. 1052.
Burckhardt, F., San Francisco, Cal. "Burckhardt's Royal Farina." (For Farina.) No. 16,152; Feb. 6; Gaz. vol. 175; p. 263.
Burton Bros. & Co., New York, N. Y. "All-but-linen." (For Suiting.) No. 16,375; June 11; Gaz. vol. 179; p. 571.
C. Hascall & Co., Inc., Seattle, Wash. "Doctors Port." (For Wines.) No. 16,398; June 18; Gaz. vol. 179; p. 849.
C. A. Edgarton Manufacturing Company, The, Shirley, Mass. "Panama Pad Garter." (For Garters.) No. 16,663; Nov. 26; Gaz. vol. 184; p. 1071.
C. B. Henschel Mfg. Co., Milwaukee, Wis. "La Vadura." (For Cigars.) No. 16,106; Jan. 16; Gaz. vol. 174; p. 827.
C. B. Henschel Mfg. Co., Milwaukee, Wis. "Justiva." (For Cigars.) No. 16,153; Feb. 6; Gaz. vol. 175; p. 263.
C. B. Henschel Mfg. Co., Milwaukee, Wis. "El Magno." (For Cigars.) No. 16,154; Feb. 6; Gaz. vol. 175; p. 263.
C. B. Henschel Mfg. Co., Milwaukee, Wis. "Tempus." (For Cigars.) No. 16,155; Feb. 6; Gaz. vol. 175; p. 263.
C. B. Henschel Mfg. Co., Milwaukee, Wis. "Hogarth." (For Cigars.) No. 16,186; Feb. 27; Gaz. vol. 175; p. 1096.
C. B. Henschel Mfg. Co., Milwaukee, Wis. "El Ginero." (For Cigars.) No. 16,273; Apr. 9; Gaz. vol. 177; p. 522.
C. B. Henschel Mfg. Co., Milwaukee, Wis. "El Favo." (For Cigars.) No. 16,285; Apr. 16; Gaz. vol. 177; p. 768.
C. B. Henschel Mfg. Co., Milwaukee, Wis. "Landseer." (For Cigars.) No. 16,298; Apr. 23; Gaz. vol. 177; p. 1041.
C. B. Henschel Mfg. Co., Milwaukee, Wis. "Nordana." (For Cigars.) No. 16,367; June 4; Gaz. vol. 179; p. 284.
C. B. Henschel Mfg. Co., Milwaukee, Wis. "El Domar." (For Cigars.) No. 16,397; June 18; Gaz. vol. 179; p. 849.
C. B. Henschel Mfg. Co., Milwaukee, Wis. "San Puro." (For Cigars.) No. 16,509; Aug. 13; Gaz. vol. 181; p. 539.
C. B. Henschel Mfg. Co., Milwaukee, Wis. "Don Alvano." (For Cigars.) No. 16,636; Nov. 5; Gaz. vol. 184; p. 284.
C. B. Henschel Mfg. Co., Milwaukee, Wis. "John Mill." (For Cigars.) No. 16,652; Nov. 12; Gaz. vol. 184; p. 548.
C. M. C. Stewart Sulphur Company, The, Seattle, Wash. "Stewart's Liquid Compound of Sulphur." (For a Remedy.) No. 16,242; Mar. 19; Gaz. vol. 176; p. 747.
C. M. C. Stewart Sulphur Company, The, Seattle, Wash. "Sulphurro A Remedy." (For a Remedy.) No. 16,243; Mar. 19; Gaz. vol. 176; p. 747.
California Condensed Fruit & Syrup Co., The, San Francisco, Cal. "Melo." (For Syrup.) No. 16,680; Dec. 10; Gaz. vol. 185; p. 523.
Canaday, Allen M., Morris, Ill. "Canaday's Weed Killer." (For Weed-Killer.) No. 16,297; Apr. 23; Gaz. vol. 177; p. 1041.
Canale & Co., D., Memphis, Tenn. "Old Dominick Bourbon." (For Whisky.) No. 16,488; Aug. 6; Gaz. vol. 181; p. 264.
Canale & Co., D., Memphis, Tenn. "Dominick Special Rye." (For Whisky.) No. 16,554; Sept. 3; Gaz. vol. 182; p. 246.
Cardoe Remedy Company, Lawrence, Mass. "C R C." (For a Remedy for Rheumatic Pains.) No. 16,571; Oct. 1; Gaz. vol. 183; p. 216.
Carqué, Otto, Los Angeles, Cal. "Carqué's California Fruit-Laxative." (For Fruit Laxative.) No. 16,473; July 23; Gaz. vol. 180; p. 1136.
Cashion, Edward M., Schenectady, N. Y. "Kil-Bug." (For Insect-Powder.) No. 16,321; May 7; Gaz. vol. 178; p. 318.
Catsigianis, John, St. Louis, Mo. "Boy Scouts Honey Nut Kisses." (For Candy Kisses.) No. 16,433; July 2; Gaz. vol. 180; p. 320.
Catsigianis, John, St. Louis, Mo. "Boy Scouts Pop Corn." (For Popcorn.) No. 16,456; July 16; Gaz. vol. 180; p. 877.
Cedar-Sweep Company, Incorporated, The, Los Angeles, Cal. "Cedar-Sweep." (For a Sweeping Compound.) No. 16,572; Oct. 1; Gaz. vol. 183; p. 216.
Central California Canneries, San Francisco, Cal. "Hotchkiss' 'Glass Jar' Label Brand." (For Peaches.) No. 16,434; July 2; Gaz. vol. 180; p. 320.
Central California Canneries, San Francisco, Cal. "Hotchkiss' 'Glass Jar' Label Brand." (For Grapes.) No. 16,435; July 2; Gaz. vol. 180; p. 320.
Central California Canneries, San Francisco, Cal. "Hotchkiss' 'Glass Jar' Label Brand." (For Cherries.) No. 16,436; July 2; Gaz. vol. 180; p. 320.
Central California Canneries, San Francisco, Cal. "Hotchkiss' 'Glass Jar' Label Brand." (For Blackberries.) No. 16,457; July 16; Gaz. vol. 180; p. 877.
Central California Canneries, San Francisco, Cal. "Hotchkiss' 'Glass Jar' Label Brand." (For Apricots.) No. 16,458; July 16; Gaz. vol. 180; p. 877.
Central California Canneries, San Francisco, Cal. "Hotchkiss' 'Glass Jar' Label Brand." (For Asparagus.) No. 16,459; July 16; Gaz. vol. 180; p. 877.
Central California Canneries, San Francisco, Cal. "Hotchkiss' 'Glass Jar' Label Brand." (For Plums.) No. 16,460; July 16; Gaz. vol. 180; p. 877.
Central California Canneries, San Francisco, Cal. "Hotchkiss' 'Glass Jar' Label Brand." (For Pineapple.) No. 16,461; July 16; Gaz. vol. 180; p. 877.
Central California Canneries, San Francisco, Cal. "Hotchkiss' 'Glass Jar' Label Brand." (For Pears.) No. 16,462; July 16; Gaz. vol. 180; p. 877.
Central California Canneries, San Francisco, Cal. "Hotchkiss' 'Glass Jar' Label Brand." (For Royal Anne Cherries.) No. 16,524; Aug. 27; Gaz. vol. 181; p. 1071.
Central California Canneries, San Francisco, Cal. "Hotchkiss' 'Glass Jar' Label Brand." (For Yellow Free Peaches.) No. 16,525; Aug. 27; Gaz. vol. 181; p. 1071.
Central California Canneries, San Francisco, Cal. "Hotchkiss' 'Glass Jar' Label Brand." (For Egg-Plums.) No. 16,526; Aug. 27; Gaz. vol. 181; p. 1071.
Central California Canneries, San Francisco, Cal. "Hotchkiss' 'Glass Jar' Label Brand." (For Large Asparagus Tips.) No. 16,527; Aug. 27; Gaz. vol. 181; p. 1071.
Central California Canneries, San Francisco, Cal. "Hotchkiss' 'Glass Jar' Label Brand." (For Yellow Cling-Peaches.) No. 16,528; Aug. 27; Gaz. vol. 181; p. 1071.
Central California Canneries, San Francisco, Cal. "Hotchkiss' 'Glass Jar' Label Brand." (For Tomatoes.) No. 16,529; Aug. 27; Gaz. vol. 181; p. 1071.
Central California Canneries, San Francisco, Cal. "Hotchkiss' 'Glass Jar' Label Brand." (For Oysters.) No. 16,530; Aug. 27; Gaz. vol. 181; p. 1071.
Central California Canneries, San Francisco, Cal. "Hotchkiss' 'Glass Jar' Label Brand." (For Salmon.) No. 16,531; Aug. 27; Gaz. vol. 181; p. 1071.
Central California Canneries, San Francisco, Cal. "Hotchkiss' 'Glass Jar' Label Brand." (For Cut Stringless Beans.) No. 16,532; Aug. 27; Gaz. vol. 181; p. 1071.
Central California Canneries, San Francisco, Cal. "Hotchkiss' 'Glass Jar' Label Brand." (For Olives.) No. 16,533; Aug. 27; Gaz. vol. 181; p. 1071.
Central California Canneries, San Francisco, Cal. "Hotchkiss' 'Glass Jar' Label Brand." (For Sifted Peas.) No. 16,534; Aug. 27; Gaz. vol. 181; p. 1071.
Central California Canneries, San Francisco, Cal. "Hotchkiss' 'Glass Jar' Label Brand." (For Shrimps.) No. 16,535; Aug. 27; Gaz. vol. 181; p. 1071.
Central California Canneries, San Francisco, Cal. "Hotchkiss' 'Glass Jar' Label Brand." (For Pork and Beans.) No. 16,536; Aug. 27; Gaz. vol. 181; p. 1071.
Central California Canneries, San Francisco, Cal. "Hotchkiss' 'Glass Jar' Label Brand." (For Prunes.) No. 16,537; Aug. 27; Gaz. vol. 181; p. 1071.
Chas. Jacquin et Cie. Inc., New York, N. Y. "Kuloff." (For Non-Alcoholic Beverages.) No. 16,544; Aug. 27; Gaz. vol. 181; p. 1071.
Cheek-Neal Coffee Co., Nashville, Tenn. "Cereco." (For Coffee, Cereals, and Chicory.) No. 16,121; Jan. 23; Gaz. vol. 174; p. 1024.
Christie-Collar Mfg. Co., Muskegon, Mich. "Musgo." (For Baking-Powder.) No. 16,156; Feb. 6; Gaz. vol. 175; p. 263.
Clark-Hutchinson Company, Boston, Mass. "Bonnie Lassie." (For Shoes.) No. 16,213; Mar. 5; Gaz. vol. 176; p. 272.
Clark, Warren, Springfield, Mass. "Clark's Stringent Liniment A Sound Horse for a Dollar." (For Liniment.) No. 16,681; Dec. 10; Gaz. vol. 185; p. 523.
Claussen Brewing Association, Seattle, Wash. "White and Gold." (For Beer.) No. 16,252; Mar. 26; Gaz. vol. 176; p. 1068.
Claussen Brewing Association, Seattle, Wash. "Old Wuerzburger." (For Beer.) No. 16,253; Mar. 26; Gaz. vol. 176; p. 1068.
Cohen, J. J., Chicago, Ill. "Kan't-beat-me." For Hosiery.) No. 16,709; Dec. 24; Gaz. vol. 185; p. 1052.

Alphabetical list of registrants of labels—Continued.

Cokato Canning Co., Cokato, Minn. "Little Crow." (For Canned Corn.) No. 16,418; June 25; Gaz. vol. 179; p. 1105.
Coleman Cigar Company, Superior, Wis. "Saxonia." (For Cigars.) No. 16,632; Nov. 5; Gaz. vol. 184; p. 284.
Columbia Coffee Mills, Ltd., New Orleans, La. "Summo." (For Coffee and Chicory.) No. 16,614; Oct. 29; Gaz. vol. 183; p. 1306.
Columbia Wax Works, New York, N. Y. "No-Stick." (For Ironing-Wax.) Nos. 16,350–1; May 28; Gaz. vol. 178; p. 1150.
Comstock & Co., S. E., Newark, N. Y. "Secco." (For Canned Sweet Corn.) No. 16,633; Nov. 5; Gaz. vol. 184; p. 284.
Conti, Cesare, New York, N. Y. "Conti." (For Food Products.) No. 16,480; July 30; Gaz. vol. 180; p. 1391.
Continental Cider Co., Inc., Norfolk, Va. "Tempo." (For a Temperance Drink.) No. 16,538; Aug. 27; Gaz. vol. 181; p. 1071.
Cootes, E. B., Norfolk, Va. "Hygeia Antiseptic Mouth Wash and Gargle." (For Mouth-Wash and Gargle.) No. 16,481; July 30; Gaz. vol. 180; p. 1391.
Cordial Panna Company, The, Cleveland, Ohio. "Fernet-L-Branca, Di Leone Branca E. Comp." (For Bitters and Cordials.) No. 16,244; Mar. 19; Gaz. vol. 176; p. 747.
Cordon, John G. M., Clayton, N. C. "Cucumelis." (For a Lotion.) No. 16,214; Mar. 5; Gaz. vol. 176; p. 272.
Corona Chemical Company, Chicago, Ill. "Dermax." (For an Internal Remedy.) No. 16,157; Feb. 6; Gaz. vol. 175; p. 263.
Cowan, E. H., Crowell, Tex. "Dr. E. H. Cowan's Ounce of Prevention Powders Successfully used with Dr. E. H. Cowan's Hygienic Outfit." (For Prevention-Powders.) No. 16,352; May 28; Gaz. vol. 178; p. 1150.
Crossman Tack Company, The, Dighton, Mass. "Neverust." (For Carpet-Tacks.) No. 16,311; Apr. 30; Gaz. vol. 177; p. 1294.
Crutchfield & Woolfolk, Pittsburgh, Pa. "Imperial Valley Poppy Brand." (For Melons.) No. 16,342; May 21; Gaz. vol. 178; p. 883.
Curran, George E., Boston, Mass. "College." (For Toilet-Paper.) No. 16,376; June 11; Gaz. vol. 179; p. 571.
Curran, George E., Boston, Mass. "Opera." (For Toilet-Paper.) No. 16,377; June 11; Gaz. vol. 179; p. 571.
D. Leiden, Ltd., Cologne, Germany. "Krone der Pfalz." (For Rhine Wine.) No. 16,688; Dec. 10; Gaz. vol. 185; p. 523.
D. Leiden, Ltd., Cologne, Germany. "Krone von Berncastel." (For Moselle Wine.) No. 16,689; Dec. 10; Gaz. vol. 185; p. 523.
D. Leiden, Ltd., Cologne, Germany. "Krone von Erden." (For Moselle Wine.) No. 16,690; Dec. 10; Gaz. vol. 185; p. 523.
D. Leiden, Ltd., Cologne, Germany. "Krone der Saar." (For Moselle Wine.) No. 16,691; Dec. 10; Gaz. vol. 185; p. 523.
D. P. Harris Hardware Co., New York, N. Y. "Princeton." (For Bicycles.) No. 16,103; Jan. 2; Gaz. vol. 174; p. 286.
Dalton, George E. P., West Lynn, Mass. "Oriental Ointment." (For Ointment.) No. 16,353; May 28; Gaz. vol. 178; p. 1150.
Darby Candy Company, The, Baltimore, Md. "Darbelle Chocolates." (For Chocolates.) No. 16,187; Feb. 27; Gaz. vol. 175; p. 1096.
Davies, Augustus, Pasadena, Cal. "The Davies Dolls." (For Dolls.) No. 16,615; Oct. 29; Gaz. vol. 183; p. 1306.
Davison, H. C., Hutchinson, Kans. "Moneyback." (For Flour.) No. 16,188; Feb. 27; Gaz. vol. 175; p. 1096.
Davison, H. C., Hutchinson, Kans. "Moneyback." (For Flour.) No. 16,215; Mar. 5; Gaz. vol. 176; p. 272.
De Marco, John B., Brooklyn, N. Y. "De Marco's Piano Polish—De Marco's Furniture Polish." (For Piano and Furniture Polish.) No. 16,555; Sept. 3; Gaz. vol. 182; p. 246.
Dean Lilly Coffee and Spice Co., The, Memphis, Tenn. "El Merito." (For Blended Coffee.) No. 16,312; Apr. 30; Gaz. vol. 177; p. 1294.
Decker, Maybelle C., Atlanta, Ga. "Deckermaclair." (For Salad-Dressing.) No. 16,216; Mar. 5; Gaz. vol. 176; p. 272.
Delavan Condensed Milk Company, Chicago, Ill. "Delavan Brand Sterilized Modified Milk." (For Sterilized Modified Milk.) No. 16,141; Jan. 30; Gaz. vol. 174; p. 1216.
Demartini Supply Co., L., San Francisco, Cal. "Pan-A-Ma Mintos." (For Confection.) No. 16,318; Apr. 30; Gaz. vol. 177; p. 1294.
Denio Milling Company, J. W., Sheridan, Wyo. "Pride of Sheridan." (For Flour.) No. 16,378; June 11; Gaz. vol. 179; p. 571.
Denio Milling Company, J. W., Sheridan, Wyo. "Best Out West." (For Flour.) No. 16,379; June 11; Gaz. vol. 179; p. 571.
Dexterose Food Co., Richmond, Va. "Dexterose." (For Foods for Infants and Invalids.) No. 16,616; Oct. 29; Gaz. vol. 183; p. 1306.
Dinuba Farmers Union Packing Co., Inc., Dinuba, Cal. "Dinuba Fancy Seeded Raisins." (For Seeded Raisins.) No. 16,634; Nov. 5; Gaz. vol. 184; p. 284.
Dinuba Farmers Union Packing Co., Inc., Dinuba, Cal. "Alta District Brand Fancy Seeded Raisins." (For Seeded Raisins.) No. 16,635; Nov. 5; Gaz. vol. 184; p. 284.
Dinuba Farmers Union Packing Co., Inc., Dinuba, Cal. "San Joaquin Brand Choice Seeded Raisins." (For Seeded Raisins.) No. 16,662; Nov. 26; Gaz. vol. 184; p. 1071.
Dixon Springs Hotel Company, Dixon Springs, Ill. "Na'-Mon-O'-Ma." (For Water.) No. 16,573; Oct. 1; Gaz. vol. 183; p. 216.
Dodge, Major J., Rochester, N. Y. "Joe Houghton Cigars." (For Cigars.) No. 16,721; Dec. 31; Gaz. vol. 185; p. 1378.
Dodge, Walter L., Chicago, Ill. "Tiz For Tender Feet." (For Foot-Bath Tablets.) No. 16,354; May 28; Gaz. vol. 178; p. 1150.
Dodson, James G., Americus, Ga. "Dodson's Liver Tone." (For a Medicinal Preparation.) No. 16,313; Apr. 30; Gaz. vol. 177; p. 1294.
Dorf, Carl, Springvalley, Ill. "The Ho Bo Cigar." (For Cigars.) No. 16,539; Aug. 27; Gaz. vol. 181; p. 1071.
Drummond & Co., John, Glasgow, Scotland. "Drummond's Royal Liqueur." (For Scotch Whisky.) No. 16,563; Sept. 10; Gaz. vol. 182; p. 508.
Dundas, J. Douglas, Vancouver, British Columbia, Canada. "Mitifine Flour." (For Flour.) No. 16,217; Mar. 5; Gaz. vol. 176; p. 272.
Dunn, Michael J., Pottsville, Pa. "Marvelous Cleaner." (For Disinfecting-Cleaner.) No. 16,274; Apr. 9; Gaz. vol. 177; p. 522.
E. A. & Otto Weber, Manila, Philippine Islands. "La Flor De Asinga." (For Cigars.) No. 16,603; Oct. 8; Gaz. vol. 183; p. 501.
E. A. & Otto Weber, Manila, Philippine Islands. "La Flor de Lavinab." (For Cigars.) No. 16,604; Oct. 8; Gaz. vol. 183; p. 501.
E. R. Brackett Company, New York, N. Y. "Rattler Brand." (For Oranges and Grape-Fruit.) No. 16,122; Jan 23; Gaz. vol. 174; p. 1024.
E. T. Burrowes Co., The, Portland, Me. "Cedar Blows." (For Moth and Insect Destroyer.) No. 16,504; Aug. 13; Gaz. vol. 181; p. 539.
Eagle Pencil Company, New York, N. Y. "Eagle Mikado Pencils." (For Lead-Pencils.) No. 16,245; Mar. 19; Gaz. vol. 176; p. 747.
Eakeley, Charles W., Newark, N. J. "Peroxide Cream." (For Complexion-Cream.) No. 16,505; Aug. 13; Gaz. vol. 181; p. 539.
Eas-It Chemical Co., The, Florence, Ala. "Stutts' Eas-It." (For a Remedy for Headaches.) No. 16,617; Oct. 29; Gaz. vol. 183; p. 1306.
Eclipse Orange Grove Company, Leesburg, Fla. "Parson Brown Orange Bend Hammock Florida Oranges." (For Oranges.) No. 16,682; Dec. 10; Gaz. vol. 185; p. 523.
Eclipse Orange Grove Company, Leesburg, Fla. "Eclipse Brand Orange Bend Hammock Tangerines." (For Tangerines.) No. 16,683; Dec. 10; Gaz. vol. 185; p. 523.
Eclipse Orange Grove Company, Leesburg, Fla. "Eclipse Brand Orange Bend Hammock Grapefruit." (For Grape-Fruit.) No. 16,684; Dec. 10; Gaz. vol. 185; p. 523.
Eclipse Orange Grove Company, Leesburg, Fla. "Eclipse Brand Orange Bend Hammock Oranges." (For Oranges.) No. 16,685; Dec. 10; Gaz. vol. 185; p. 523.
Edelstein, Jacob I., New York, N. Y. "Mi Lectura." (For Cigars.) No. 16,449; July 9; Gaz. vol. 180; p. 600.
Edwards, John C., Mobile, Ala. "Horse Tonic." (For Horse-Tonic.) No. 16,299; Apr. 23; Gaz. vol. 177; p. 1041.
Edwin B. Stimpson Company, New York, N. Y. "Thomson Rivets." (For Rivets.) No. 16,260; Apr. 2; Gaz. vol. 177; p. 238.
Edwin B. Stimpson Company, New York, N. Y. "Tubular Rivets." (For Tubular Rivets.) No. 16,286; Apr. 16; Gaz. vol. 177; p. 768.
Egerton, W. C., Brooklyn, N. Y. "Imbriani." (For Macaroni.) No. 16,234; Mar. 12; Gaz. vol. 176; p. 524.
Egerton, W. C., Brooklyn, N. Y. "Savoy." (For Macaroni.) No. 16,254; Mar. 26; Gaz. vol. 176; p. 1068.
Elgin Cigar Company, Hopkinsville, Ky. "Flor de Ecco." (For Cigars.) No. 16,450; July 9; Gaz. vol. 180; p. 600.
Elkton Lithia Bottling Co., Elkton, Va. "Elk-Lithia Ginger Ale." (For Ginger-Ale.) No. 16,337; May 14; Gaz. vol. 178; p. 589.
Ellor Hartley Co., East Orange, N. J. "The Bull Moose Hat." (For Hats.) No. 16,566; Sept. 24; Gaz. vol. 182; p. 969.
Ennis-Hanly-Blackburn Coffee Co., The, Kansas City, Mo. "Pay Day." (For Coffee.) No. 16,246; Mar. 19; Gaz. vol. 176; p. 747.
Ernste Mfg. Co., Iowa City, Iowa. "Ernste's Original Cream of Lemons Compound." (For Toilet Cream.) No. 16,474; July 23; Gaz. vol. 180; p. 1136.
Evans & Son, S. W., Philadelphia, Pa. "The Rustless Joint." (For Umbrellas.) No. 16,463; July 16; Gaz. vol. 180; p. 877.

Alphabetical list of registrants of labels—Continued.

Ewing, Edwin, Clinton, Iowa. "The Mirror-De-Luxe." (For Mirrors.) No. 16,618; Oct. 29; Gaz. vol. 183; p. 1306.
Faber, Firm of A. W., Stein, near Nuremberg, Germany, and Newark, N. J. "Castell." (For Rubber Bands.) No. 16,189; Feb. 27; Gaz. vol. 175; p. 1096.
Farley Candy Company, Chicago, Ill. "Sugar Plums." (For Candy and Confections.) No. 16,104; Jan. 2; Gaz. vol. 174; p. 286.
Felty, Edward S., York and North York borough, Pa. "Fighting Bob." (For Cigars.) No. 16,540; Aug. 27; Gaz. vol. 181; p. 1071.
Finney, Olin, Columbus, Ohio. "Sterilized Finney Cork." (For Corks.) No. 16,722; Dec. 31; Gaz. vol. 185; p. 1378.
Flower City Specialty Co., Rochester, N. Y. "Santa Claus Miniature Bank." (For Toy Banks.) No. 16,723; Dec. 31; Gaz. vol. 185; p. 1378.
Fox Bros., Napoleon, Ohio. "Vo-Lant." (For Cigars.) No. 16,218; Mar. 5; Gaz. vol. 176; p. 272.
Francisco Bolaño & Co., Chicago, Ill. "James Stuart." (For Cigars.) No. 16,314; Apr. 30; Gaz. vol. 177; p. 1294.
Frank & Lambert Inc., New York, N. Y. "Burial Garment Display Box." (For Burial-Garments.) No. 16,596; Oct. 8; Gaz. vol. 183; p. 501.
Fred. C. Mansfield Co., Johnson Creek, Wis. "Mansfield's Fine Creamery Butter." (For Butter.) No. 16,692; Dec. 10; Gaz. vol. 185; p. 523.
Fred. C. Mansfield Co., Johnson Creek, Wis. "Mansfield's Unsweetened Evaporated Milk." (For Evaporated Milk.) No. 16,693; Dec. 10; Gaz. vol. 185; p. 523.
Friedberg, S., Norfolk, Va. "South Pole Whiskey." (For Whisky.) No. 16,562; Sept. 10; Gaz. vol. 182; p. 508.
Fritz, Julius I., Chicago, Ill. "Fritz's Wizard Insect Destroyers." (For an Insect-Destroyer.) No. 16,724; Dec. 31; Gaz. vol. 185; p. 1378.
Froehlich & Son, S., Newark, N. J. "Black and Gold." (For Whisky.) No. 16,392; June 11; Gaz. vol. 179; p. 571.
Froehlich & Son, S., Newark, N. J. "Romeo & Juliet." (For Whisky.) No. 16,393; June 11; Gaz. vol. 179; p. 571.
Froehlich & Son, S., Newark, N. J. "Ginger-Brandy." (For Brandy.) No. 16,394; June 11; Gaz. vol. 179; p. 571.
G. Mennen Chemical Company, Newark, N. J. "Mennen's Shaving Cream." (For Shaving-Cream.) Nos. 16,727–8; Dec. 31; Gaz. vol. 185; p. 1378.
G. Reis & Bro., New York, N. Y. "Reis' Nuvo Foundations." (For Embroidery-Foundation Initials and other Foundations for Embroidery.) No. 16,586; Oct. 1; Gaz. vol. 183; p. 216.
G. Reis & Bro., New York, N. Y. "Reis' Tex Foundations." (For Embroidery-Foundation Initials and other Foundations for Embroidery.) No. 16,599; Oct. 8; Gaz. vol. 183; p. 501.
G. H. Tribe & Co., Ogden, Utah. "Tribe & Co's Special." (For Whisky.) No. 16,446; July 2; Gaz. vol. 180; p. 320.
Gardner Wire Company, Chicago, Ill. "Quick Sale." (For Hardware.) No. 16,142; Jan. 30; Gaz. vol. 174; p. 1216.
Gardner Wire Company, Chicago, Ill. "Quick Sale." (For Weather-Stripping.) No. 16,506; Aug. 13; Gaz. vol. 181; p. 539.
Gardy, H. D., Philadelphia, Pa. "A Great Appetizer." (For Granulated Sapsago-Cheese.) No. 16,123; Jan. 23; Gaz. vol. 174; p. 1024.
Gartside, Joseph H., Philadelphia, Pa. "Gartside's Iron Rust Soap." (For Soap.) No. 16,507; Aug. 13; Gaz. vol. 181; p. 539.
Gaube, Ernest W., Cleveland, Ohio. "Pin-acus." (For Lotion or Salve.) No. 16,158; Feb. 6; Gaz. vol. 175; p. 263.
Gease, J. E., Provo, Utah. "Socialist." (For Cigars.) No. 16,178; Feb. 20; Gaz. vol. 175; p. 842.
General Roofing Manufacturing Company, East St. Louis, Ill. "Certain-teed Roofing." (For Roofing Materials.) No. 16,287; Apr. 16; Gaz. vol. 177; p. 768.
Goetz, Albert F., Baltimore, Md. "Krispy Krust." (For Bread-Sticks.) No. 16,605; Oct. 22; Gaz. vol. 183; p. 1030.
Gonzalez, Eduardo, Tampa, Fla. "Lujoso." (For Cigars.) No. 16,606; Oct. 22; Gaz. vol. 183; p. 1030.
González, Juan M., New Orleans, La. "El Mismo." (For Cigars.) No. 16,607; Oct. 22; Gaz. vol. 183; p. 1030.
Gottmann & Kretchmer, Chicago, Ill. "Gottmann & Kretchmer, Chicago, U. S. A." (For Chocolate.) No. 16,288; Apr. 16; Gaz. vol. 177; p. 768.
Gottmann & Kretchmer, Chicago, Ill. "Surinam Chocolate." (For Chocolate.) No. 16,322; May 7; Gaz. vol. 178; p. 318.
Griffin & Hoxie, Utica, N. Y. "Golden Wedding." (For Coffee.) No. 16,159; Feb. 6; Gaz. vol. 175; p. 263.
Grocers' Biscuit Company, Louisville, Ky. "Lunche-On Biscuit." (For Biscuits or Crackers.) No. 16,275; Apr. 9; Gaz. vol. 177; p. 522.
Grossman, Max, Peoria, Ill. "Jefferson." (For Cigars.) No. 16,368; June 4; Gaz. vol. 179; p. 284.
Growers Home Canning Company, Los Angeles, Cal. "Home Brand." (For Sliced Oranges.) No. 16,315; Apr. 30; Gaz. vol. 177; p. 1294.
Guernsey & Murray Grocer Company, Kansas City, Mo. "Barondale." (For Whisky.) No. 16,247; Mar. 19; Gaz. vol. 176; p. 747.
Guth Chocolate Co., Baltimore, Md. "The Guth Guarantee." (For Chocolates and Bon-Bons.) No. 16,489; Aug. 6; Gaz. vol. 181; p. 264.
H. Hackfeld & Co. Ltd., Honolulu, Hawaii. "H. H. Brand." (For Canned Salmon.) Nos. 16,556–7; Sept. 3; Gaz. vol. 182; p. 246.
H. Hackfeld & Co., Ltd., Honolulu, Hawaii. "Diamond Head." (For Canned Salmon.) No. 16,575; Oct. 1; Gaz. vol. 183; p. 216.
H. Hackfeld & Co., Ltd., Honolulu, Hawaii. "Kamehameha." (For Canned Salmon.) No. 16,576; Oct. 1; Gaz. vol. 183; p. 216.
Haddad Medical Company, Toledo, Ohio. "Marhan." (For Liniment.) No. 16,710; Dec. 24; Gaz. vol. 185; p. 1052.
Hall, Hartwell & Company, Troy, N. Y. "Hallmark Color Fast Warranty Bond." (For Shirts.) No. 16,316; Apr. 30; Gaz. vol. 177; p. 1294.
Hampton-Kelley Canning Company, The, Hampton, Iowa. "Attention Brand." (For Sweet Corn.) No. 16,235; Mar. 12; Gaz. vol. 176; p. 524.
Hampton-Kelley Canning Company, The, Hampton, Iowa. "Over-All Club." (For Sweet Corn.) No. 16,236; Mar. 12; Gaz. vol. 176; p. 524.
Hampton-Kelley Canning Company, The, Hampton, Iowa. "Harvest Inn." (For Sweet Corn.) No. 16,237; Mar. 12; Gaz. vol. 176; p. 524.
Hampton-Kelley Canning Company, The, Hampton, Iowa. "Iowa Cluster." (For Sweet Corn.) No. 16,238; Mar. 12; Gaz. vol. 176; p. 524.
Hampton-Kelley Canning Company, The, Hampton, Iowa. "Our Effort Brand." (For Sweet Corn.) No. 16,248; Mar. 19; Gaz. vol. 176; p. 747.
Handwerger, M., Baltimore, Md. "Lord Baltimore Brand." (For Rubberized Garments.) No. 16,508; Aug. 13; Gaz. vol. 181; p. 539.
Hannemann Baking Co., J., Atlanta, Ga. "Old Fashion Pound Cake." (For Pound-Cake.) No. 16,160; Feb. 6; Gaz. vol. 175; p. 263.
Hanning, William H., Terre Haute, Ind. "Char Coal Tooth Paste." (For Tooth-Paste.) No. 16,124; Jan. 23; Gaz. vol. 174; p. 1024.
Hardin Co., Thomas L., New Orleans, La. "Redsnapper Sauce." (For Sauce.) No. 16,597; Oct. 8; Gaz. vol. 183; p. 501.
Hart Company, T. H., Philadelphia, Pa. "Quaker Pure." (For Cigars.) No. 16,725; Dec. 31; Gaz. vol. 185; p. 1378.
Hax, J. P. & E. V., Baltimore, Md. "High Ball Lithiated." (For Ginger-Ale.) No. 16,261; Apr. 2; Gaz. vol. 177; p. 238.
Hazen-Brown Company, Boston, Mass. "Tite-Seal." (For Rubber Cements.) No. 16,619; Oct. 29; Gaz. vol. 183; p. 1306.
Healy, Raymond, New York, N. Y. "Orthopedic Arch Support." (For Shoes.) No. 16,651; Nov. 12; Gaz. vol. 184; p. 548.
Hearn & Jones, New Orleans, La. "Sunflower." (For Molasses.) No. 16,437; July 2; Gaz. vol. 180; p. 320.
Hearn & Jones, New Orleans, La. "Old Mill." (For Molasses.) No. 16,438; July 2; Gaz. vol. 180; p. 320.
Henry Maillard Inc., New York, N. Y. "Menthe Melange." (For Candy.) No. 16,465; July 16; Gaz. vol. 180; p. 877.
Henschel & Co., A. C., Chicago, Ill. "Black Shield." (For Cigars.) No. 16,283; Apr. 16; Gaz. vol. 177; p. 768.
Henschel & Co., A. C., Chicago, Ill. "Commercial Note." (For Cigars.) No. 16,365; June 4; Gaz. vol. 179; p. 284.
Henschel & Co., A. C., Chicago, Ill. "Field-Craft." (For Cigars.) No. 16,482; July 30; Gaz. vol. 180; p. 1391.
Henschel & Co., A. C., Chicago, Ill. "Ben Fez." (For Cigars.) No. 16,620; Oct. 29; Gaz. vol. 183; p. 1306.
Henschel & Co., A. C., Chicago, Ill. "Judge Case." (For Cigars.) No. 16,686; Dec. 10; Gaz. vol. 185; p. 523.
Hewitt Mercantile Company, The, St. Louis, Mo. "Briar Hill Whiskey." (For Whisky.) No. 16,190; Feb. 27; Gaz. vol. 175; p. 1096.
Hewitt Mercantile Company, The, St. Louis, Mo. "Hickory Ridge Straight Whiskey." (For Whisky.) No. 16,191; Feb. 27; Gaz. vol. 175; p. 1096.
Hewitt Mercantile Company, The, St. Louis, Mo. "Oregon Whiskey." (For Whisky.) No. 16,192; Feb. 27; Gaz. vol. 175; p. 1096.
Hewitt Mercantile Company, The, St. Louis, Mo. "Grizzly Bear Whiskey." (For Whisky.) No. 16,193; Feb. 27; Gaz. vol. 175; p. 1096.
Hewitt Mercantile Company, The, St. Louis, Mo. "Hewitt Rye Whiskey." (For Whisky.) No. 16,419; June 25; Gaz. vol. 179; p. 1105.
Hewitt Mercantile Company, The, St. Louis, Mo. "Hewitt Bourbon Whiskey." (For Whisky.) No. 16,420; June 25; Gaz. vol. 179; p. 1105.

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Hibbard, Spencer, Bartlett & Co., Chicago, Ill. "Hardware." (For Tools, Cutlery, Paints, and Tinware.) No. 16,637; Nov. 5; Gaz. vol. 184; p. 284.
Hires Condensed Milk Company, Philadephia, Pa. "Sun Rise Bread." (For Evaporated Skim-Milk.) No. 16,125; Jan. 23; Gaz. vol. 174; p. 1024.
Holipeter, Edward E., Detroit, Mich. "A Pickle." (For Cigars.) No. 16,701; Dec. 17; Gaz. vol. 185; p. 826.
Honeyman, Garretta, Plainfield, N. J. "Nobald." (For Hair-Tonic.) No. 16,439; July 2; Gaz. vol. 180; p. 320.
Horse Shoe Grist Mill, Horseshoe, N. Y. "Horse Shoe Grist Mill Cereal, The Finest of the Wheat, Natural Colour." (For Cereal.) No. 16,262; Apr. 2; Gaz. vol. 177; p. 238.
Horse Shoe Grist Mill, Horseshoe, N. Y. "Horse Shoe Grist Mill Cereal Staff of Life." (For Cereal.) No. 16,323; May 7; Gaz. vol. 178; p. 318.
Howel, C. J., Fort Worth, Tex. "Orange Julep." (For Non-Intoxicating Beverage.) No. 16,578; Oct. 1; Gaz. vol. 183; p. 216.
Hoyt, Fred W., Jr., The Weirs, N. H. "Laconia Spring Water." (For Spring-Water.) No. 16,579; Oct. 1; Gaz. vol. 183; p. 216.
Humphreys, R. E., Lorain, Ohio. "'Mint Julep Gum' Chewing Gum." (For Chewing-Gum.) No. 16,664; Nov. 26; Gaz. vol. 184; p. 1071.
Hunt Brothers Company, San Francisco, Cal. "Hunt's Staple Quality." (For California Fruits.) No. 16,263; Apr. 2; Gaz. vol. 177; p. 238.
Hunt Brothers Company, San Francisco, Cal. "Hunt's Superior Quality." (For California Fruits.) No. 16,264; Apr. 2; Gaz. vol. 177; p. 238.
Hunt Brothers Company, San Francisco, Cal. "Hunt's Supreme Quality." (For California Fruits.) No. 16,265; Apr. 2; Gaz. vol. 177; p. 238.
Hunt, Ernest M., Lowell, Mass. "Gleamo." (For Polishing Compound.) No. 16,358; May 28; Gaz. vol. 178; p. 1150.
Huyler's, New York, N. Y. "Peanut Brittle." (For Peanut-Brittle.) No. 16,510; Aug. 13; Gaz. vol. 181; p. 539.
Huyler's, New York, N. Y. "Peppermint Twist." (For Peppermint-Twist.) No. 16,580; Oct. 1; Gaz. vol. 183; p. 216.
I. Rokeach & Sons, New York, N. Y. "Rokeach's Kosher Scouring Powder." (For Scouring-Powder.) No. 16,426; June 25; Gaz. vol. 179; p. 1105.
I. C. Shore & Co., Petersburg, Va. "Yellow Rose Pure Corn Whiskey." (For Corn Whisky.) No. 16,427; June 25; Gaz. vol. 179; p. 1105.
Independent Baking Company, Davenport, Iowa. "Protection Brand." (For Graham Crackers.) No. 16,638; Nov. 5; Gaz. vol. 184; p. 284.
Independent Baking Company, Davenport, Iowa. "Soda Midgets." (For Crackers.) No. 16,653; Nov. 6; Gaz. vol. 184; p. 548.
Independent Brewing Company, The, Seattle, Wash. "Old German Lager." (For Beer.) No. 16,543; Aug. 27; Gaz. vol. 181; p. 1071.
International Investment Corporation, Norfolk, Va. "Choose Individual Chews." (For Chewing-Tobacco.) No. 16,622; Oct. 29; Gaz. vol. 183; p. 1306.
Isleton Butter Company, Isleton, Cal. "Isleton Creamery Butter." (For Butter.) No. 16,126; Jan. 23; Gaz. vol. 174; p. 1024.
J. B. Murphy Co., The, Watertown, Wis. "Brilliant Illuminator." (For Carbon-Oil.) No. 16,255; Mar. 26; Gaz. vol. 176; p. 1068.
J. D. Ryan Co., The, Cleveland, Ohio. "Lotus Chocolates Lotus Beauty." (For Chocolates.) No. 16,276; Apr. 9; Gaz. vol. 177; p. 522.
J. F. Pyle & Son, San Jose, Cal. "R-bst." (For Tomatoes.) No. 16,194; Feb. 27; Gaz. vol. 175; p. 1096.
J. F. Pyle & Son, San Jose, Cal. "R-bst." (For California Fruits.) No. 16,425; June 25; Gaz. vol. 179; p. 1105.
J. M. Robinson, Norton & Co., Louisville, Ky. "The Tiger Method." (For Overalls.) No. 16,256; Mar. 26; Gaz. vol. 176; p. 1068.
J. M. Robinson, Norton & Co., Louisville, Ky. "Mary Ann." (For Bleached Cotton.) No. 16,277; Apr. 9; Gaz. vol. 177; p. 522.
Jacob Wirth & Co., Inc., Providence, R. I. "Gilt Edge Beer." (For Beer.) No. 16,658; Nov. 12; Gaz. vol. 184; p. 548.
Jahant, Walter V., Woodbridge, Cal. "Red Heart." (For Grapes.) No. 16,545; Aug. 27; Gaz. vol. 181; p. 1071.
James R. Keiser Inc., New York, N. Y. "Keiser Handkerchiefs The Boy's Companion." (For Handkerchiefs.) No. 16,623; Oct. 29; Gaz. vol. 183; p. 1306.
James R. Keiser Inc., New York, N. Y. "Keiser Handkerchiefs The Little Housekeeper." (For Handkerchiefs.) No. 16,624; Oct. 29; Gaz. vol. 183; p. 1306.
Jas. H. Forbes Tea & Coffee Co., St. Louis, Mo. "Forbes' Quality." (For Coffee.) No. 16,355; May 28; Gaz. vol. 178; p. 1150.
Jas. H. Forbes Tea & Coffee Co., St. Louis, Mo. "Forbes' Quality." (For Extracts.) No. 16,356; May 28; Gaz. vol. 178; p. 1150.
Jas. H. Forbes Tea & Coffee Co., St. Louis, Mo. "Forbes' Quality." (For Tea.) No. 16,357; May 28; Gaz. vol. 178; p. 1150.
Jaskulek, Robert, Dayton, Ohio. "Soroma." (For Cigars.) No. 16,546; Aug. 27; Gaz. vol. 181; p. 1071.
Jetter Brewing Company, South Omaha, Nebr. "Old Age." (For Beer.) No. 16,317; Apr. 30; Gaz. vol. 177; p. 1294.
John Hoberg Co., The, Green Bay, Wis. "Linden." (For Toilet-Paper.) No. 16,541; Aug. 27; Gaz. vol. 181; p. 1071.
John Hoberg Co., The, Green Bay, Wis. "Linaire." (For Toilet-Paper.) No. 16,542; Aug. 27; Gaz. vol. 181; p. 1071.
John Hoberg Co., The, Green Bay, Wis. "The Old Mill Stream." (For Toilet-Paper.) No. 16,577; Oct. 1; Gaz. vol. 183; p. 216.
Johnston Fruit Co. (Inc.), Santa Barbara, Cal. "Panama." (For Oranges and Lemons.) No. 16,161; Feb. 6; Gaz. vol. 175; p. 263.
Jones, Ada C., Cincinnati, Ohio. "Cleaner-Polish." (For Cleaner-Polish.) No. 16,175; Feb. 13; Gaz. vol. 175; p. 540.
Julius Bien Company, New York, N. Y. "Adelosa." (For Cigars.) No. 16,127; Jan. 23; Gaz. vol. 174; p. 1024.
Julius Bien Company, New York, N. Y. "Compliments of the Season." (For Cigars.) No. 16,128; Jan. 23; Gaz. vol. 174; p. 1024.
Julius Bien Company, New York, N. Y. "Belle Point." (For Cigars.) No. 16,129; Jan. 23; Gaz. vol. 174; p. 1024.
Julius Bien Company, New York, N. Y. "Dea Rosa." (For Cigars.) No. 16,130; Jan. 23; Gaz. vol. 174; p. 1024.
Julius Bien Company, New York, N. Y. "Don Brazos." (For Cigars.) No. 16,131; Jan. 23; Gaz. vol. 174; p. 1024.
Julius Bien Company, New York, N. Y. "Salve Rey." (For Cigars.) No. 16,132; Jan. 23; Gaz. vol. 174; p. 1024.
Julius Bien Company, New York, N. Y. "Ricabella." (For Cigars.) No. 16,133; Jan. 23; Gaz. vol. 174; p. 1024.
Julius Bien Company, New York, N. Y. "Tres Bon." (For Cigars.) No. 16,134; Jan. 23; Gaz. vol. 174; p. 1024.
Julius Bien Company, New York, N. Y. "La Domia." (For Cigars.) No. 16,511; Aug. 13; Gaz. vol. 181; p. 539.
Julius Bien Company, New York, N. Y. "Goldhaven." (For Cigars.) No. 16,512; Aug. 13; Gaz. vol. 181; p. 539.
Julius Bien Company, New York, N. Y. "El Telares." (For Cigars.) No. 16,513; Aug. 13; Gaz. vol. 181; p. 539.
Julius Bien Company, New York, N. Y. "Toyanah." (For Cigars.) No. 16,514; Aug. 13; Gaz. vol. 181; p. 539.
Julius Bien Company, New York, N. Y. "Doraz." (For Cigars.) No. 16,515; Aug. 13; Gaz. vol. 181; p. 539.
Julius Bien Company, New York, N. Y. "El Ponto." (For Cigars.) No. 16,516; Aug. 13; Gaz. vol. 181; p. 539.
Julius Bien Company, New York, N. Y. "Evabelle." (For Cigars.) No. 16,564; Sept. 10; Gaz. vol. 182; p. 508.
Jung Brewing Company, Milwaukee, Wis. "Golden Spray." (For Beer.) No. 16,162; Feb. 6; Gaz. vol. 175; p. 263.
Kake Packing Company, Astoria, Oreg., and Kake, Alaska. "Skookum Brand." (For Salmon.) No. 16,464; July 16; Gaz. vol. 180; p. 877.
Kamenstein, Myer, New York, N. Y. "Samson." (For Washboilers.) No. 16,687; Dec. 10; Gaz. vol. 185; p. 523.
Karlen, Jacob, Rome, N. Y. "Mohawk Valley." (For Limburger-Style Cheese.) No. 16,421; June 25; Gaz. vol. 179; p. 1105.
Kelley, Daniel I., Providence, R. I. "Pocahontas Herb Tablets." (For Herb Tablets.) No. 16,547; Aug. 27; Gaz. vol. 181; p. 1071.
Kellogg Toasted Corn Flake Co., Battle Creek, Mich. "Kellogg's Toasted Wheat Biscuit." (For Biscuit.) No. 16,422; June 25; Gaz. vol. 179; p. 1105.
Kellogg Toasted Corn Flake Co., Battle Creek, Mich. "Kellogg's Toasted Wheat Biscuit." (For Biscuit.) No. 16,440; July 2; Gaz. vol. 180; p. 320.
Ketteriog, Henry H., Pittsburgh, Pa. "Kettering's Worlds Catarrh Remedy." (For a Remedy for Catarrh.) No. 16,369; June 4; Gaz. vol. 179; p. 284.
Keyes Manufacturing Company, The, Denver, Colo. "Bob White Maple and Cane Syrup." (For Maple and Cane Syrup.) No. 16,163; Feb. 6; Gaz. vol. 175; p. 263.
Kimball & Marxsen, Chicago, Ill. "White Swan Milk Rice Granulated." (For Granulated Milk Rice.) No. 16,548; Aug. 27; Gaz. vol. 181; p. 1071.
King, Francis M., Sr., Philadelphia, Pa. "The Frameless, or No-Frame Screen." (For Insect and Window Screens.) No. 16,135; Jan. 23; Gaz. vol. 174; p. 1024.
Kirst, C. and L., Buffalo, N. Y. "Kirst's J & L Special." (For Cigars.) No. 16,284; Apr. 16; Gaz. vol. 177; p. 768.

Alphabetical list of registrants of labels—Continued.

Klock, Nettie A., Binghamton, N. Y. "Grandmother Dutcher's Painless Menstruation Herbs." (For a Medicinal Preparation.) No. 16,654; Nov. 12; Gaz. vol. 184; p. 548.
Kopald, Sigmund, New York, N. Y. "Ten Oil Liniment." (For Liniment.) No. 16,665; Nov. 26; Gaz. vol. 184; p. 1071.
Kopf, Henry B., New Haven, Conn. "Suggestions." (For Pineapples.) No. 16,726; Dec. 31; Gaz. vol. 185; p. 1378.
Krementz & Co., Newark, N. J. "Krementz Bodkin Stud." (For Shirt-Studs.) No. 16,666; Nov. 26; Gaz. vol. 184; p. 1071.
Krementz & Co., Newark, N. J. "The Krementz One-Piece-Post & Bean Cuff Button." (For Cuff-Buttons.) No. 16,711; Dec. 24; Gaz. vol. 185; p. 1052.
Krolik, Day, Detroit, Mich. "Flag Brand Make Winner Shirt." (For Work-Shirts.) No. 16,324; May 7; Gaz. vol. 178; p. 318.
Krolik, Day, Detroit, Mich. "Flag Brand Make Mascot Shirt." (For Work-Shirts.) No. 16,325; May 7; Gaz. vol. 178; p. 318.
L. Frank & Son Company, Milwaukee, Wis. "Frank's Quality Sausage 'Made as only Frank knows how.'" (For Sausage.) No. 16,574; Oct. 1; Gaz. vol. 183; p. 216.
La Posenda Cigar Co., Chicago, Ill. "La Posenda." (For Cigars.) No. 16,667; Nov. 26; Gaz. vol. 184; p. 1071.
Lagman, Chas., Mobile, Ala. "Lagman's Panama Bouquet." (For Cigars.) No. 16,581; Oct. 1; Gaz. vol. 183; p. 216.
Lascelles & Co., A. S., New York, N. Y. "Silver Ball." (For Flour.) No. 16,549; Aug. 27; Gaz. vol. 181; p. 1071.
Lautz Bros. & Co., Buffalo, N. Y. "Lautz Naphtha." (For Soap.) No. 16,639; Nov. 5; Gaz. vol. 184; p. 284.
Le Rouge Co., Chicago, Ill. "Le Rouge's Authentic-Hair-Auxiliary Soap." (For Soap.) No. 16,399; June 18; Gaz. vol. 179; p. 849.
Le Rouge Co., Chicago, Ill. "Le Rouge's Authentic-Hair-Auxiliary." (For Hair-Pomade.) No. 16,400; June 18; Gaz. vol. 179; p. 849.
Lehigh Portland Cement Company, Chicago, Ill. "Lee-Hi." (For Cement.) No. 16,164; Feb. 6; Gaz. vol. 175; p. 263.
Lemon-Kola Sales Agency Co., Roanoke, Va. "Lemon Kola." (For a Beverage.) No. 16,441; July 2; Gaz. vol. 180; p. 320.
Lemon Seidlitz Co., The, Baltimore, Md. "Lemon Seidlitz." (For Lemon Seidlitz-Powders.) No. 16,165; Feb. 6; Gaz. vol. 175; p. 263.
Lenhart Manufacturing Company, Philadelphia, Pa. "Tri-Radiant." (For Acetylene-Gas Burners.) No. 16,360; May 28; Gaz. vol. 178; p. 1150.
Levinson, Schoenfeld & Yatter Co., Chicago, Ill. "X-L-All Clothes." (For Clothes.) No. 16,712; Dec. 24; Gaz. vol. 185; p. 1052.
Lewis, Harry C., Cleveland, Ohio. "Fort Lewis Club." (For Whisky.) No. 16,371; June 4; Gaz. vol. 179; p. 284.
Liberty Garter Manufacturing Company, New York, N. Y. "Arrow Pad Garter." (For Garters.) No. 16,565; Sept. 10; Gaz. vol. 182; p. 508.
Lipton, Thomas J., New York, N. Y., and Chicago, Ill. "Lipton's Tea." (For Tea.) Nos. 16,166–7; Feb. 6; Gaz. vol. 175; p. 263.
Lipton, Thomas J., New York, N. Y., and Chicago, Ill. "Lipton's Jelly Tablets." (For Jelly-Tablets.) No. 16,475; July 23; Gaz. vol. 180; p. 1136.
Lipton, Thomas J., New York, N. Y., and Chicago, Ill. "Lipton's 'Perfection' Blend Coffee." (For Coffee.) No. 16,640; Nov. 5; Gaz. vol. 184; p. 284.
Liquid Food Bottling Company, Kansas City, Mo. "Sparkling Fizz." (For Non-Alcoholic Beverage.) No. 16,300; Apr. 23; Gaz. vol. 177; p. 1041.
Logab Tobacco Company, Henderson, Ky. "Logab Mixture." (For Smoking-Tobacco.) No. 16,550; Aug. 27; Gaz. vol. 181; p. 1071.
Loh, Ed., Jno. Donahue, and Jerome Herman, Jacksonville, Fla. "Old Tom Jones." (For Whisky.) No. 16,517; Aug. 13; Gaz. vol. 181; p. 539.
Lopez, Firm of Hijos de, Quirico, Malaga, Spain. "Ojen." (For Ojen.) No. 16,621; Oct. 29; Gaz. vol. 183; p. 1306.
Lorenz Bros. Macaroni Co., Milwaukee, Wis. "Egg Rings." (For Egg-Noodles for Soups.) No. 16,518; Aug. 13; Gaz. vol. 181; p. 539.
Louisville Cotton Oil Co., Incorporated, Louisville, Ky. "Ideal or Progress." (For Cooking-Oil.) Nos. 16,143–4; Jan. 30; Gaz. vol. 174; p. 1216.
Lustro Mfg. & Sales Co., The, Inc., Cleveland, Ohio. "Lustro." (For Polishing-Cloths.) No. 16,655; Nov. 12; Gaz. vol. 184; p. 548.
M. C. Peters Mill Co., Omaha, Nebr. "Fine Feeds Make Fast Friends We Make Both." (For Feeds.) No. 16,483; July 30; Gaz. vol. 180; p. 1391.
Mahany, Rowland B., Buffalo, N. Y. "Pied Piper Paste. Rat and Roach Exterminator, Effective Chemical Co. 'We Do The Work.'" (For a Preparation for the Destruction of Rats and Roaches.) No. 16,558; Sept. 3; Gaz. vol. 182; p. 246.
Maldehyde Chemical Company, St. Louis, Mo. "Micturitone." (For Diuretic.) No. 16,195; Feb. 27; Gaz. vol. 175; p. 1096.
Maldehyde Chemical Company, St. Louis, Mo. "Rubi-Lyptol." (For Nose and Throat Spray.) No. 16,266; Apr. 2; Gaz. vol. 177; p. 238.
Malt Food Products Co. of Oswego, N. Y., Oswego, N. Y. "Mellamalt." (For Confections.) No. 16,625; Oct. 29; Gaz. vol. 183; p. 1306.
Mariani Bros., New York, N. Y. "Anisetta." (For Cordials.) No. 16,476; July 23; Gaz. vol. 180; p. 1136.
Martin Marks Coffee Co., Portland, Oreg. "Monte Cristo." (For Coffee.) No. 16,219; Mar. 5; Gaz. vol. 176; p. 272.
Martin, T. F., Rock Island, Ill. "The Five Label Cigars." (For Cigars.) No. 16,136; Jan. 23; Gaz. vol. 174; p. 1024.
Mason City Brick and Tile Company, Mason City, Iowa. "Everlasting Silo." (For Silos.) No. 16,146; Jan. 30; Gaz. vol. 174; p. 1216.
Mathues, William F., New York, N. Y. "Mathues Brothers Maat." (For Cigarettes.) No. 16,267; Apr. 2; Gaz. vol. 177; p. 238.
Max Glick Co., The, Cleveland, Ohio. "Crispy Fluffs The Shredded Candy." (For Candy.) No. 16,327; May 7; Gaz. vol. 178; p. 318.
Maxwell-McClure-Fitts D. G. Co., Kansas City, Mo. "Flaxbloom." (For Handkerchiefs.) No. 16,401; June 18; Gaz. vol. 179; p. 849.
Maynard, Gertrude M., Brookline, Mass. "Lady Betty's Pure Fruit Specialties." (For Pure Fruit Specialties.) No. 16,649; Nov. 5; Gaz. vol. 184; p. 284.
McBrady, John E., Chicago, Ill. "McBrady's Beauty Cake." (For Complexion-Cream.) No. 16,301; Apr. 23; Gaz. vol. 177; p. 1041.
McDuff Mercantile Co., St. Louis, Mo. "McDuff's Malt Whiskey." (For Malt Whiskies.) No. 16,302; Apr. 23; Gaz. vol. 177; p. 1041.
McIntyre, A. D., Oswego, N. Y. "Pepsotonic." (For a Tonic.) No. 16,694; Dec. 10; Gaz. vol. 185; p. 523.
Meharry, Harry L., San Francisco, Cal. "Honey Suckle Brand." (For Honey.) No. 16,196; Feb. 27; Gaz. vol. 175; p. 1096.
Mengis, Margaret, New York, N. Y. "Getthin's Selto." (For Prepared Salt.) No. 16,268; Apr. 2; Gaz. vol. 177; p. 238.
Mennig, Henry W., St. Paul, Minn. "Mennig's Olive Oil and Port Wine Emulsion." (For an Emulsion of Olive-Oil and Port-Wine.) No. 16,695; Dec. 10; Gaz. vol. 185; p. 523.
Meyer & Schelling, West Hoboken, N. J. "Limetta." For Limetta.) No. 16,501; Aug. 6; Gaz. vol. 181; p. 264.
Mi Lola Cigar Co., Milwaukee, Wis. "Extoler." (For Cigars.) No. 16,491; Aug. 6; Gaz. vol. 181; p. 264.
Millar-Osborn Spice Company, The, Denver, Colo. "Hill Grown Brand Tea." (For Tea.) No. 16,641; Nov. 5; Gaz. vol. 184; p. 284.
Miner, W. H., Chazy, N. Y. "Absolutely Pure Apple Cider Heart's Delight Farm." (For Apple Cider.) No. 16,713; Dec. 24; Gaz. vol. 185; p. 1052.
Minnesota Linseed Oil Paint Company, Minneapolis, Minn. "Otwell's Tree Paint." (For Tree-Paint.) No. 16,668; Nov. 26; Gaz. vol. 184; p. 1071.
Minnick, Michael J., Philadelphia, Pa. "Moose Fine Rye Whiskey." (For Rye Whisky.) No. 16,492; Aug. 6; Gaz. vol. 181; p. 264.
Moehle Lithographic Co., The, New York, N. Y. "La Joya de Cuba." (For Cigars.) No. 16,197; Feb. 27; Gaz. vol. 175; p. 1096.
Moehle Lithographic Co., The, New York, N. Y. "Double Header." (For Cigars.) No. 16,198; Feb. 27; Gaz. vol. 175; p. 1096.
Moehle Lithographic Co., The, New York, N. Y. "Some Smoke." (For Cigars.) No. 16,199; Feb. 27; Gaz. vol. 175; p. 1096.
Moehle Lithographic Co., The, New York, N. Y. "Planter's Smile." (For Cigars.) No. 16,200; Feb. 27; Gaz. vol. 175; p. 1096.
Moehle Lithographic Co., The, New York, N. Y. "New Panetela." (For Cigars.) No. 16,201; Feb. 27; Gaz. vol. 175; p. 1096.
Moehle Lithographic Co., The, New York, N. Y. "Club Standard." (For Cigars.) No. 16,202; Feb. 27; Gaz. vol. 175; p. 1096.
Moehle Lithographic Co., The, New York, N. Y. "Doctor's Special." (For Cigars.) No. 16,203; Feb. 27; Gaz. vol. 175; p. 1096.
Moehle Lithographic Company, The, New York, N. Y. "Donna Manila." (For Cigars.) No. 16,220; Mar. 5; Gaz. vol. 176; p. 272.
Moehle Lithographic Company, The, New York, N. Y. "Sola Rosa." (For Cigars.) No. 16,221; Mar. 5; Gaz. vol. 176; p. 272.
Moehle Lithographic Company, The, New York, N. Y. "Kaiser Club." (For Cigars.) No. 16,278; Apr. 9; Gaz. vol. 177; p. 522.
Moehle Lithographic Company, The, New York, N. Y. "Havana Style." (For Cigars.) No. 16,328; May 7; Gaz. vol. 178; p. 318.

Alphabetical list of registrants of labels—Continued.

Moehle Lithographic Company, The, New York, N. Y. "La Composa." (For Cigars.) No. 16,380; June 11; Gaz. vol. 179; p. 571.
Moehle Lithographic Company, The, New York, N. Y. "Baby Rose." (For Cigars.) No. 16,381; June 11; Gaz. vol. 179; p. 571.
Moehle Lithographic Company, The, New York, N. Y. "Loyal Order." (For Cigars.) No. 16,382; June 11; Gaz. vol. 179; p. 571.
Moehle Lithographic Company, The, New York, N. Y. "Chief Okee." (For Cigars.) No. 16,383; June 11; Gaz. vol. 179; p. 571.
Moehle Lithographic Company, The, New York, N. Y. "Rosa del Lago." (For Cigars.) No. 16,384; June 11; Gaz. vol. 179; p. 571.
Moehle Lithographic Company, The, New York, N. Y. "La Plantina." (For Cigars.) No. 16,519; Aug. 13; Gaz. vol. 181; p. 539.
Moehle Lithographic Company, The, New York, N. Y. "Prize Winner." (For Cigars.) No. 16,642; Nov. 5; Gaz. vol. 184; p. 284.
Moehle Lithographic Company, The, New York, N. Y. "John Claypole." (For Cigars.) No. 16,643; Nov. 5; Gaz. vol. 184; p. 284.
Moehle Lithographic Company, The, New York, N. Y. "Handcraft." (For Cigars.) No. 16,644; Nov. 5; Gaz. vol. 184; p. 284.
Moehle Lithographic Company, The, New York, N. Y. "El Puerto de Tampa." (For Cigars.) No. 16,645; Nov. 5; Gaz. vol. 184; p. 284.
Moehle Lithographic Company, The, New York, N. Y. "Banner Issue." (For Cigars.) No. 16,646; Nov. 5; Gaz. vol. 184; p. 284.
Moehle Lithographic Company, The, New York, N. Y. "'Resiak' Bouquet." (For Cigars.) No. 16,647; Nov. 5; Gaz. vol. 184; p. 284.
Moerlbach Brewing Co., Gates, N. Y. "Moerlbach Beer." (For Beer.) No. 16,343; May 21; Gaz. vol. 178; p. 883.
Moore, Charles S., Danvers, Mass. "Blue Ribbon Milk Pail." (For Milk-Pails.) No. 16,269; Apr. 2; Gaz. vol. 177; p. 238.
Musil, Frank J., Whitestone, N. Y. "Aero." (For Whisky.) No. 16,714; Dec. 24; Gaz. vol. 185; p. 1052.
N. Y. S. & S. Mfg. Co., The, Norfolk, Va. "Jamestown Ginger Ale." (For Ginger-Ale.) No. 16,205; Feb. 27; Gaz. vol. 175; p. 1096.
National Gum & Mica Company, New York, N. Y. "Pure White Paste Many-Cell Jar." (For Paste.) No. 16,319; Apr. 30; Gaz. vol. 177; p. 1294.
Nelson, N. F., Milbank, S. D. "Tri-State Capitols." (For Cigars.) No. 16,204; Feb. 27; Gaz. vol. 175; p. 1096.
Nemser, Waldemar, New York, N. Y. "German Botanic Cough Balsam." (For a Cough-Balsam.) No. 16,729; Dec. 31; Gaz. vol. 185; p. 1378.
Neuro Pharmacal Company, Wapakoneta, Ohio. "Pepsinco for Dyspepsia." (For a Medicinal Preparation.) No. 16,493; Aug. 6; Gaz. vol. 181; p. 264.
New Method Varnish Company, Elmira, N. Y. "Uncle Hiram's Brighten-All." (For Brighteners and Polishes.) No. 16,370; June 4; Gaz. vol. 179; p. 284.
New Orleans Coffee Co., Ltd., New Orleans, La. "French Market." (For Roasted Coffee and Chicory.) No. 16,329; May 7; Gaz. vol. 178; p. 318.
New Orleans Coffee Co., New Orleans, La. "Everybody's." (For Sugar-Syrup and Corn-Syrup.) No. 16,402; June 18; Gaz. vol. 179; p. 849.
New Orleans Coffee Co., New Orleans, La. "New South." (For Cane-Syrup.) No. 16,403; June 18; Gaz. vol. 179; p. 849.
New Orleans Coffee Co., New Orleans, La. "Cracker." (For Cane-Syrup.) No. 16,404; June 18; Gaz. vol. 179; p. 849.
New Orleans Coffee Co., New Orleans, La. "Sweetland." (For Sugar-Cane Products and Corn-Syrup.) No. 16,405; June 18; Gaz. vol. 179; p. 849.
New Orleans Coffee Co., New Orleans, La. "Alligator." (For Molasses.) No. 16,406; June 18; Gaz. vol. 179; p. 849.
New Orleans Coffee Co., New Orleans, La. "Goose Neck." (For Imitation Sorghum.) No. 16,407; June 18; Gaz. vol. 179; p. 849.
New Orleans Coffee Co., New Orleans, La. "Sparkle." (For Table-Syrup.) No. 16,408; June 18; Gaz. vol. 179; p. 849.
New Orleans Coffee Co., New Orleans, La. "Snow White." (For Corn-Syrup and Cane-Sugar Syrup.) No. 16,409; June 18; Gaz. vol. 179; p. 849.
New York Baking Powder Company, New York, N. Y. "Wildwood Brand." (For Baking-Powder.) No. 16,730; Dec. 31; Gaz. vol. 185; p. 1378.
New York & New Jersey Lubricant Co., Plainfield, N. J., and New York, N. Y. "Hyatt Roller Bearing Oil." (For Lubricants.) No. 16,731; Dec. 31; Gaz. vol. 185; p. 1378.
New York & New Jersey Lubricant Co., Plainfield, N. J., and New York, N. Y. "Hyatt Roller Lubricant." (For Lubricants.) No. 16,732; Dec. 31; Gaz. vol. 185; p. 1378.
Newton Tea & Spice Co., The, Cincinnati, Ohio. "Red Seal." (For Vanilla Extract.) No. 16,180; Feb. 20; Gaz. 175; p. 842.
Norgaard Soap Company, Winona, Minn. "Norgaard's Almond Complexion Soap." (For Soap.) No. 16,494; Aug. 6; Gaz. vol. 181; p. 264.
Norgaard Soap Company, Winona, Minn. "Genuine Old Country Green Soap." (For Soap.) No. 16,495; Aug. 6; Gaz. vol. 181; p. 264.
Norgaard Soap Company, Winona, Minn. "Norgaard's Ox Gall Soap." (For Soap.) No. 16,496; Aug. 6; Gaz. vol. 181; p. 264.
Norton, John J., Ellicott City, Md. "Norton's First Aid Pulmonary Balsam." (For a Remedy.) No. 16,222; Mar. 5; Gaz. vol. 176; p. 272.
Novotny, Frank, Bridgeport, Conn. "Ideal Smoke of Leisure." (For Cigars.) No. 16,598; Oct. 8; Gaz. vol. 183; p. 501.
Nu-Back Mfg. Co., Chicago, Ill. "Leath-R-Nu." (For Liquid Preparation to be Used on Leather, Metal, Wood, &c.) No. 16,257; Mar. 26; Gaz. vol. 176; p. 1068.
O'Brien, Charles T., Anderson, Ind. "Mentha Peps." (For Flavoring.) No. 16,696; Dec. 10; Gaz. vol. 185; p. 523.
O'Brien Cigar Company, James, Kansas City, Mo. "Old Concern Cigar." (For Cigars.) No. 16,179; Feb. 20; Gaz. vol. 175; p. 842.
Ohio Butterine Co., The, Cincinnati, Ohio. "Churngold." (For Oleomargarin.) No. 16,582; Oct. 1; Gaz. vol. 183; p. 216.
Oregon Fisheries Company, Bay City, Oreg. "Bayocean." (For Canned Salmon.) No. 16,551; Aug. 27; Gaz. vol. 181; p. 1071.
Oregon Fisheries Company, Bay City, Oreg. "Port Russell." (For Canned Salmon.) No. 16,552; Aug. 27; Gaz. vol. 181; p. 1071.
Osborn Paper Company, Marion, Ind. "The Enlight." (For Tablets.) No. 16,137; Jan. 23; Gaz. vol. 174; p. 1024.
Osborn Paper Company, Marion, Ind. "Flaxlawn." (For Paper.) No. 16,168; Feb. 6; Gaz. vol. 175; p. 263.
Osborn Paper Company, Marion, Ind. "Twotone Linen." (For Paper.) No. 16,206; Feb. 27; Gaz. vol. 175; p. 1096.
Osborn Paper Company, Marion, Ind. "Golden Rod." (For Tablets.) No. 16,330; May 7; Gaz. vol. 178; p. 318.
Osborn Paper Company, Marion, Ind. "Sterling Graded." (For Books.) No. 16,733; Dec. 31; Gaz. vol. 185; p. 1378.
Oshkosh Brewing Co., The, Oshkosh, Wis. "Oshkosh Special." (For Beer.) No. 16,385; June 11; Gaz. vol. 179; p. 571.
Paarman, Emil C. F., Lake Placid, N. Y., and Palm Beach, Fla. "Poinciana Cerate." (For Preparations for the Skin.) No. 16,423; June 25; Gaz. vol. 179; p. 1105.
Palmer & Co., Sioux City, Iowa. "Miss Brown." (For Chocolates.) No. 16,207; Feb. 27; Gaz. vol. 175; p. 1096.
Palmer & Co., Sioux City, Iowa. "Palmer's Alpean Chocolates." (For Chocolates.) No. 16,270; Apr. 2; Gaz. vol. 177; p. 238.
Paris Chemical Co., New York, N. Y. "I. C. Prevention." (For Medicinal Preparation.) No. 16,410; June 18; Gaz. vol. 179; p. 849.
Paul Manufacturing Co., Boston, Mass. "Egyptian Deodorizer and Aerofume." (For Pastils for Burning.) No. 16,520; Aug. 13; Gaz. vol. 181; p. 539.
Peabody & Co., Henry W., New York, N. Y. "Havakan." (For Canned Crab-Meat.) No. 16,107; Jan. 16; Gaz. vol. 174; p. 827.
Peabody & Co., Henry W., New York, N. Y. "Havakan." (For Asparagus.) No. 16,583; Oct. 1; Gaz. vol. 183; p. 216.
Pecora Paint Company, Philadelphia, Pa. "Pecora Asbestos Furnace Cement." (For Asbestos Furnace-Cement.) No. 16,224; Mar. 5; Gaz. vol. 176; p. 272.
Penick & Ford, Ltd., New Orleans, La. "Velva Syrup." (For Sugar-Cane and Corn Syrup.) No. 16,344; May 21; Gaz. vol. 178; p. 883.
Penick & Ford, Ltd., New Orleans, La. "Velva Breakfast Syrup." (For Sugar-Cane Syrup.) No. 16,345; May 21; Gaz. vol. 178; p. 883.
Penryn Fruit Co., Penryn, Cal. "Fancy California Peaches." (For Fresh Peaches.) No. 16,451; July 9; Gaz. vol. 180; p. 600.
Penryn Fruit Co., Penryn, Cal. "Fancy California Plums." (For Fresh Plums.) No. 16,452; July 9; Gaz. vol. 180; p. 600.
Pepper, John J., Addison, N. Y. "George L." (For Cigars.) No. 16,424; June 25; Gaz. vol. 179; p. 1105.
Pepsi-Cola Co., Newbern, N. C. "Pepsi." (For Beverage.) No. 16,249; Mar. 19; Gaz. vol. 176; p. 747.
Perry, Belle A., Oshkosh, Wis. "Perry's Beau-A-Mi-Derm Toilet Cream." (For Toilet Cream.) No. 16,559; Sept. 3; Gaz. vol. 182; p. 246.
Perspo Company, Chicago, Ill. "Perspi-No." (For Toilet Powder.) No. 16,466; July 16; Gaz. vol. 180; p. 877.
Peyton, Valentine, Los Angeles, Cal. "Diamond A." (For Citrus Fruits.) No. 16,497; Aug. 6; Gaz. vol. 181; p. 264.

Alphabetical list of registrants of labels—Continued.

Peyton, Valentine, Los Angeles, Cal. "Diamond B." (For Citrus Fruits.) No. 16,498; Aug. 6; Gaz. vol. 181; p. 264.
Pharmacal Products Company, The, East Newark, N. J. "Po-lus-to." (For Furniture, Piano, and Metal Polish.) No. 16,521; Aug. 13; Gaz. vol. 181; p. 539.
Pharmacal Products Company, The, East Newark, N. J. "Sal Vegetas Rx." (For a Saline and Vegetable Cathartic Compound.) No. 16,626; Oct. 29; Gaz. vol. 183; p. 1306.
Phister, Rudolph, Erie, Pa. "Clay." (For Cigars.) No. 16,499; Aug. 6; Gaz. vol. 181; p. 264.
Phoenix Toilet & Paper Manufacturing Company, Phoenix, N. Y. "Japanese Toilet Paper." (For Toilet-Paper.) No. 16,361; May 28; Gaz. vol. 178; p. 1150.
Pimbley Paint & Glass Co., St. Joseph, Mo. "Pimbley's Piano-Newer." (For Composition for Cleaning and Renovating Piano-Cases and Woodwork.) No. 16,258; Mar. 26; Gaz. vol. 176; p. 1068.
Plymouth Brwg Co., Plymouth, Wis. "Plymouth." (For Beer.) No. 16,697; Dec. 10; Gaz. vol. 185; p. 523.
Polly Prue Hook and Eye Company, Philadelphia, Pa. "Polly Prue Hook and Eye." (For Hooks and Eyes.) No. 16,148; Jan. 30; Gaz. vol. 174; p. 1216.
Posner, Abraham, New York, N. Y. "Dr. Posner's High School Shoe." (For Shoes.) No. 16,147; Jan. 30; Gaz. vol. 174; p. 1216.
Potretzke, Ernest, Ada, Minn. "R. R. V." (For Cigars.) No. 16,250; Mar. 19; Gaz. vol. 176; p. 747.
Pull-The-String Mailing Wrapper Co., Chicago, Ill. "Pull-The-String Mailing Wrapper." (For Wrappers for Periodicals.) No. 16,467; July 16; Gaz. vol. 180; p. 877.
Ralston Purina Company, St. Louis, Mo. "Purina Chicken Chowder." (For Chicken Feed.) No. 16,584; Oct. 1; Gaz. vol. 183; p. 216.
Redelheim, Firm of J., New York, N. Y. "Redelheim's Passover Sugar." (For Sugar.) No. 16,585; Oct. 1; Gaz. vol. 183; p. 216.
Rein, Oscar, New York, N. Y. "Tip-Top Flour." (For Wheat-Flour.) No. 16,169; Feb. 6; Gaz. vol. 175; p. 263.
Resetar, P. M., Watsonville, Cal. "Sunkist." (For Apples.) No. 16,442; July 2; Gaz. vol. 180; p. 320.
Reynolds Corporation, The, Bristol, Tenn. "Spotless Cleanser." (For Scouring-Powder.) No. 16,627; Oct. 29; Gaz. vol. 183; p. 1306.
Rice, Henry E., Cameron, Mo. "Yankee Girl Polish." (For Polish for Metals, Glassware, &c.) No. 16,587; Oct. 1; Gaz. vol. 183; p. 216.
Richardson, Guy L., Palisades, Colo. "This Prescription Is Filled in Accordance With Your Physicians Orders and Must Not Be Refilled Without His Request or Consent." (For Drugs.) No. 16,443; July 2; Gaz. vol. 180; p. 320.
Richmond Hosiery Mills, Rossville, Ga., and Chattanooga, Tenn. "Papoose." (For Hosiery.) No. 16,108; Jan. 16; Gaz. vol. 174; p. 827.
Riggs, William E., Hastings, Nebr. "Don Alberto." (For Cigars.) No. 16,251; Mar. 19; Gaz. vol. 176; p. 747.
Rinaldi & Grossi, New York, N. Y. "Ferro-China-Italia." (For Bitters.) No. 16,138; Jan. 23; Gaz. vol. 174; p. 1024.
Rissmiller, C. E., Philadelphia, Pa. "Riss-Ene." (For Strop-Dressing.) No. 16,468; July 16; Gaz. vol. 180; p. 877.
Robinson, Fred'k. H., Philadelphia, Pa. "Sniffle-Balm." (For Medicinal Preparation.) No. 16,386; June 11; Gaz. vol. 179; p. 571.
Rome Soap Manufacturing Company, Rome, N. Y. "Dynamite Castile Soap Powder." (For Soap Powder.) No. 16,669; Nov. 26; Gaz. vol. 184; p. 1071.
Rosenthal-Sloan Millinery Co., St. Louis, Mo. "Rainbow Maline." (For Maline.) No. 16,656; Nov. 12; Gaz. vol. 184; p. 548.
Rotholz, G., Birmingham, Ala. "Custom Clothing Makers Union of America." (For Clothing and Wearing-Apparel.) No. 16,176; Feb. 13; Gaz. vol. 175; p. 540.
Rowell, Salina A., Detroit, Mich. "Rowell's Hair Clenz and Tonic." (For a Remedy for Hair and Scalp Diseases.) No. 16,500; Aug. 6; Gaz. vol. 181; p. 264.
Royal Worcester Corset Co., Worcester, Mass. "Bon Ton The Most Perfect Fitting Corset in The World." For Corsets.) No. 16,387; June 11; Gaz. vol. 179; p. 571.
Rubber Products Company, The, Barberton, Ohio. "Sunset." (For Jar-Rings.) No. 16,225; Mar. 5; Gaz. vol. 176; p. 272.
Rubber Products Company, The, Barberton, Ohio. "Crown." (For Jar-Rings.) No. 16,226; Mar. 5; Gaz. vol. 176; p. 272.
Rubber Products Company, The, Barberton, Ohio. "Blackbird." (For Jar-Rings.) No. 16,227; Mar. 5; Gaz. vol. 176; p. 272.
Rubber Products Company, The, Barberton, Ohio. "Laurel." (For Jar-Rings.) No. 16,228; Mar. 5; Gaz. vol. 176; p. 272.
Rubber Products Company, The, Barberton, Ohio. "Daisy." (For Jar-Rings.) No. 16,229; Mar. 5; Gaz. vol. 176; p. 272.
Russell Playing Card Company, The, Milltown, N. J., and New York, N. Y. "Blue Ribbon." (For Playing-Cards.) No. 16,388; June 11; Gaz. vol. 179; p. 571.
Ruy Lopez Ca., New York, N. Y. "Contentar." (For Cigars.) No. 16,560; Sept. 3; Gaz. vol. 182; p. 246.
S. E. Loveless Advertising Service, Inc., New York, N. Y. "Luxury." (For Bread.) No. 16,490; Aug. 6; Gaz. vol. 181; p. 264.
S. & S. Manufacturing Company, Akron, Ohio. "Cherry Smack." (For a Non-Alcoholic Flavoring for Drinks of Various Kinds.) No. 16,609; Oct. 22; Gaz. vol. 183; p. 1030.
Saginaw Specialty Company, Saginaw, Mich. "Loyal Moose." (For Cigars.) No. 16,259; Mar. 26; Gaz. vol. 176; p. 1068.
Salzman, Samuel I., Baltimore, Md. "Be Your Own Dentist." (For Outfits for Home Dental Treatment.) No. 16,608; Oct. 22; Gaz. vol. 183; p. 1030.
Samuel Chemical Company, The, Cincinnati, Ohio. "Samuel's ℞ Capsules." (For a Medicinal Preparation.) No. 16,698; Dec. 10; Gaz. vol. 185; p. 523.
San Joaquin County Table Grape Growers' Association, Lodi, Cal. "Phoenix." (For Fresh Grapes.) No. 16,469; July 16; Gaz. vol. 180; p. 877.
San Telmo Cigar Mfg. Co., Detroit, Mich. "San Telmo Cigar M'f'g.' Co's. Double Wrapped." (For Cigars.) No. 16,478; July 23; Gaz. vol. 180; p. 1136.
Sanborn-Cram Co., South Bend, Wash.; Astoria, Oreg., and Burnett, Alaska. "Knighthood Brand." (For Salmon.) No. 16,389; June 11; Gaz. vol. 179; p. 571.
Sanborn-Cram Co., South Bend, Wash.; Astoria, Oreg., and Burnett, Alaska. "Red Raven Brand." (For Salmon.) No. 16,390; June 11; Gaz. vol. 179; p. 571.
Saratoga Toilet Co., Saratoga Springs, N. Y. "Ineeda." (For a Remedy.) No. 16,239; Mar. 12; Gaz. vol. 176; p. 524.
Scherer, William J., Rochester, N. Y. "Charm." (For Metal-Polish.) No. 16,715; Dec. 24; Gaz. vol. 185; p. 1052.
Schield, William, St. Louis, Mo. "Red Devil Lye." (For Lye.) No. 16,272; Apr. 2; Gaz. vol. 177; p. 238.
Schlichting, Albert T., Newark, N. J. "Slick-Shine Furniture Polish." (For Furniture-Polish.) No. 16,109; Jan. 16; Gaz. vol. 174; p. 827.
Schlichting, Albert T., Newark, N. J. "Magic Bar Top Oil." (For Bar-Top Oil.) No. 16,110; Jan. 16; Gaz. vol. 174; p. 827.
Schlichting, Albert T., Newark, N. J. "Slick-Shine Liquid Metal Polish." (For Liquid Metal-Polish.) No. 16,111; Jan. 16; Gaz. vol. 174; p. 827.
Schlichting, Albert T., Newark, N. J. "Slick Hand Cleaner Powder." (For Powder for Cleaning the Hands.) No. 16,271; Apr. 2; Gaz. vol. 177; p. 238.
Schlichting, Albert T., Newark, N. J. "Rapid Copper Powder." (For Metal and Marble Polish.) No. 16,279; Apr. 9; Gaz. vol. 177; p. 522.
Schmidt & Co., New York, N. Y. "Victor Cousin." (For Cigars.) No. 16,112; Jan. 16; Gaz. vol. 174; p. 827.
Schmidt & Co., New York, N. Y. "Red Rose." (For Cigars.) No. 16,139; Jan. 23; Gaz. vol. 174; p. 1024.
Schmidt & Co., New York, N. Y. "Violeta." (For Cigars.) No. 16,346; May 21; Gaz. vol. 178; p. 883.
Schmidt & Co., New York, N. Y. "Little Egypt." (For Cigars.) No. 16,588; Oct. 1; Gaz. vol. 183; p. 216.
Schmidt & Co., New York, N. Y. "Salma." (For Cigars.) No. 16,670; Nov. 26; Gaz. vol. 184; p. 1071.
Schneider, Louis, Chicago, Ill. "The Staff of Life Nature's Bread." (For Bread.) No. 16,391; June 11; Gaz. vol. 179; p. 571.
Schollian, William E., Waterloo, Iowa. "W. E. Schollian's Original North American." (For Cigars.) No. 16,484; July 30; Gaz. vol. 180; p. 1391.
Schühle's Pure Grape Juice Co., Highland, N. Y. "Schühle's Pure Grape Juice." (For Grape-Juice.) No. 16,320; Apr. 30; Gaz. vol. 177; p. 1294.
Schuler & Co., E. H., Scranton, Pa. "Electric Furniture Polish." (For Furniture-Polish.) No. 16,716; Dec. 24; Gaz. vol. 185; p. 1052.
Schulze Baking Company, Chicago, Ill. "Schulze." (For Bread.) No. 16,347; May 21; Gaz. vol. 178; p. 883.
Schwarz, Fred., New York, N. Y. "Convalescent Rye Whiskey." (For Rye Whisky.) No. 16,303; Apr. 23; Gaz. vol. 177; p. 1041.
Schwarz, Fred., New York, N. Y. "Keserü Gyögy Bor." (For Bitters.) No. 16,304; Apr. 23; Gaz. vol. 177; p. 1041.
Schweitzer, Nathan, New York, N. Y. "Grand-Prize Milk Fed Poultry." (For Poultry.) No. 16,671; Nov. 26; Gaz. vol. 184; p. 1071.
Scott Paper Company, Philadelphia, Pa. "Scot Tissue Towels—Tourist's Sealed Package." (For Paper Towels, Comb, Washcloth, Soap, and Drinking-Cup.) No. 16,444; July 2; Gaz. vol. 180; p. 320.
Scott Paper Company, Philadelphia, Pa. "The Waldorf Towels." (For Towels.) No. 16,589; Oct. 1; Gaz. vol. 183; p. 216.
Scott Paper Company, Philadelphia, Pa. "ScotTissue Dydees." (For Paper Diapers.) No. 16,600; Oct. 8; Gaz. vol. 183; p. 501.
Security Ink Co., Hawesville, Ky. "Security." (For Non-Corrosive Writing Fluid.) No. 16,734; Dec. 31; Gaz. vol. 185; p. 1378.

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Self & Binswanger, St. Joseph, Mo. "Old Dyer." (For Whisky.) No. 16,305; Apr. 23; Gaz. vol. 177; p. 1041.
Self-Sharpening Pencil Company, Providence, R. I. "'Cranesharp' Self Sharpening Pencils." (For Pencils.) No. 16,672; Nov. 26; Gaz. vol. 184; p. 1071.
Shaul, Howard R., Colorado Springs, Colo. "Shaul's Asthma Remedy." (For Asthma Remedy.) No. 16,485; July 30; Gaz. vol. 180; p. 1391.
Shattuck, Alvin P., Buffalo, N. Y. "Beavertone." (For Paint.) No. 16,717; Dec. 24; Gaz. vol. 185; p. 1052.
Short, Tollie F. G., Vancouver, Wash. "Spirited Hair Tonic." (For Hair-Tonic.) No. 16,170; Feb. 6; Gaz. vol. 175; p. 263.
Shults Bread Company, New York, N. Y. "Shults Bon-Ton Bread." (For Bread.) No. 16,657; Nov. 12; Gaz. vol. 184; p. 548.
Smalley, Kivlan & Onthank, Boston, Mass. "Fitz-Em-All." (For Fruit-Jar Rings.) No. 16,171; Feb. 6; Gaz. vol. 175; p. 263.
Smith-Yingling Co., Westminster, Md. "Mother's Delight." (For Canned Corn.) No. 16,331; May 7; Gaz. vol. 178; p. 318.
Société Anonyme Dubonnet, Paris, France. "Dubonnet Wine." (For Appetizing-Wine.) No. 16,610; Oct. 22; Gaz. vol. 183; p. 1030.
Sofferman, Harry, Bangor, Pa. "Bangoria." (For Pockets of Shirts.) No. 16,332; May 7; Gaz. vol. 178; p. 318.
Sonnenschein, Harry, Chicago, Ill. "Black-Dandy." (For Stove-Polish.) No. 16,479; July 23; Gaz. vol. 180; p. 1136.
Southern Products Company, Seminary, Miss. "Fraternity Brand Sweet Potatoes." (For Sweet Potatoes.) No. 16,628; Oct. 29; Gaz. vol. 183; p. 1306.
Spenceley, Sara L., New York, N. Y. "Skeeter Skoot." (For an Insect-Repellent in the Form of Incense.) No. 16,502; Aug. 6; Gaz. vol. 181; p. 264.
Sprague, H. A., Ada, Okla. "Banker's Insurance (Picture of Indian Head) Ink." (For Ink.) No. 16,648; Nov. 5; Gaz. vol. 184; p. 284.
Stevenson, William G., Philadelphia, Pa. "Albem-Oil." (For Oil for Type-Writers.) No. 16,372; June 4; Gaz. vol. 179; p. 284.
Stoddart, Charles, Buffalo, N. Y. "Royal Blue Laundry Bar." (For Laundry Bar.) No. 16,470; July 16; Gaz. vol. 180; p. 877.
Strachan, Alex, Los Angeles, Cal. "Silver Seal." (For Oranges.) No. 16,289; Apr. 16; Gaz. vol. 177; p. 768.
Strachan, Alex, Los Angeles, Cal. "Gold Seal." (For Oranges.) No. 16,290; Apr. 16; Gaz. vol. 177; p. 768.
Straight, H. M., Pierre, S. D. "Pepsin and Iron Tablets." (For Tablets.) No. 16,362; May 28; Gaz. vol. 178; p. 1150.
Superior Insecticide Company, Auburn, N. Y. "Superior Insecticide." (For Powder.) No. 16,453; July 9; Gaz. vol. 180; p. 600.
Suss, Fred, Detroit, Mich. "Millennium Salve." (For Salve.) No. 16,454; July 9; Gaz. vol. 180; p. 600.
Taka-Soda Company, Baltimore, Md. "Taka-Soda." (For Soda.) No. 16,445; July 2; Gaz. vol. 180; p. 320.
Taylor Provision Co., The, Trenton, N. J. "Taylor's Pork Goodies." (For Pork Product.) No. 16,338; May 14; Gaz. vol. 178; p. 589.
Taylor Provision Company, The, Trenton, N. J. "Taylor's Pork Goodies." (For a Pork Product.) No. 16,428; June 25; Gaz. vol. 179; p. 1105.
Tebbel, L. M., Spokane, Wash. "Pederika." (For Antiseptic Powder for the Feet.) No. 16,306; Apr. 23; Gaz. vol. 177; p. 1041.
Tetlow, Clara, Philadelphia, Pa. "Fair Maid." (For Complexion-Powder.) No. 16,230; Mar. 5; Gaz. vol. 176; p. 272.
Thompson, Thomas G., New York, N. Y. "Blunts." (For Cigars.) No. 16,630; Oct. 29; Gaz. vol. 183; p. 1306.
Thomson, Loughran S., Pittsburgh, Pa. "Aviation Game." (For a Game.) No. 16,145; Jan. 30; Gaz. vol. 174; p. 1216.
Tindall, Kolbe, McDowell Company, Milwaukee, Wis "Butter Cups." (For Coffee.) No. 16,522; Aug. 13; Gaz. vol. 181; p. 539.
Tolletine Company, The, Greenfield, Mass. "Evarosa." (For Remedial Tonic for Hair and Scalp.) No. 16,140; Jan. 23; Gaz. vol. 174; p. 1024.
Tomson & Co., P. C., Philadelphia, Pa. "Tomson's Red Seal Cleanser." (For a Cleanser.) No. 16,223; Mar. 5; Gaz. vol. 176; p. 272.
Towns & James, New York, N. Y. "Glyroin." (For Medicine or Pharmaceutical Preparation.) No. 16,231; Mar. 5; Gaz. vol. 176; p. 272.
Traverse City Refrigerator Co., Traverse City, Mich. "Service." (For Fireless Cookers.) No. 16,232; Mar. 5; Gaz. vol. 176; p. 272.
Traverse City Refrigerator Co., Traverse City, Mich. "Service." (For Combined Refrigerators and Fireless Cookers.) No. 16,233; Mar. 5; Gaz. vol. 176; p. 272.
Tuberclecide Co. of Arizona, The, Phoenix, Ariz. "Tuberclecide." (For a Remedy.) No. 16,363; May 28; Gaz. vol. 178; p. 1150.
Tuite, F. J., New York, N. Y. "Anenda." (For Insect-Destroyer.) No. 16,590; Oct. 1; Gaz. vol. 183; p. 216.
U. S. Hame Company, Buffalo, N. Y. "No. 920 Ushco." (For Hames.) No. 16,307; Apr. 23; Gaz. vol. 177; p. 1041.
U. S. Hame Company, Buffalo, N. Y. "No. 910 Ushco." (For Hames.) No. 16,308; Apr. 23; Gaz. vol. 177; p. 1041.
Ulrici, Charles J., New York, N. Y. "Ulrici's Morrhualta Compound Elixir." (For Pharmaceutical Preparation.) No. 16,333; May 7; Gaz. vol. 178; p. 318.
Ulrici, Charles J., New York, N. Y. "Dr. Ulrici's Compound Cordial of Cerebrine." (For a Pharmaceutical Preparation.) No. 16,429; June 25; Gaz. vol. 179; p. 1105.
Union Fruit Company, The, Paonia, Colo. "Elberta Best Peach on Earth." (For Elberta Peaches.) No. 16,240; Mar. 12; Gaz. vol. 176; p. 524.
Union Fruit Company, The, Paonia, Colo. "Paonia Mountain Apples." (For Apples.) No. 16,241; Mar. 12; Gaz. vol. 176; p. 524.
Union Meat Company, North Portland, Oreg. "Columbia." (For Butter.) No. 16,611; Oct. 22; Gaz. vol. 183; p. 1030.
United Advertising Company, The, Cleveland, Ohio. "Kiddo Jack Kiddo Jill." (For Bread.) No. 16,591; Oct. 1; Gaz. vol. 183; p. 216.
United Paper Co., Atlanta, Ga. "Japanese Orange Wraps." (For Orange-Wrappers.) No. 16,486; July 30; Gaz. vol. 180; p. 1391.
United States Colonial Fruit Company, New York, N. Y. "Colonial Winner Brand." (For Grape-Fruit.) No. 16,181; Feb. 20; Gaz. vol. 175; p. 842.
Upham & Leavitt, Portland, Me. "Eleven in One." (For Polish for Metals and Glass.) No. 16,172; Feb. 6; Gaz. vol. 175; p. 263.
Usner & Son, J. G., Rothsville, Pa. "King." (For Cigars.) No. 16,699; Dec. 10; Gaz. vol. 185; p. 523.
Uterotone Home Treatment Company, Battle Creek, Mich. "A Message of Hope to Suffering Women." (For Medicine.) No. 16,182; Feb. 20; Gaz. vol. 175; p. 842.
Van Camp Packing Co., The, Indianapolis, Ind. "Holstein." (For Evaporated Milk.) No. 16,149; Jan. 30; Gaz. vol. 174; p. 1216.
Van Dyk & Co., New York, N. Y. "Van Dyk & Co." (For Fruit and Candy Flavors.) No. 16,612; Oct. 22; Gaz. vol. 183; p. 1030.
Van-Thomas Co., The, Los Angeles, Cal. "Van's Pure California Honey." (For Honey.) No. 16,334; May 7; Gaz. vol 178; p. 318.
Vaughan Knitting Company, The, Pottstown, Pa. "12 Reasons Why Nuweave Hose Is The Best." (For Hosiery.) No. 16,601; Oct. 8; Gaz. vol. 183; p. 501.
Vege-Lene Co., Inc., The, Warsaw, N. Y. "Vege-Lene Brand." (For Vanilla Flavor.) No. 16,339; May 14; Gaz. vol. 178; p. 589.
Vegetable Food Co., Providence, R. I. "Vegetable Salad." (For Vegetable Salad.) No. 16,280; Apr. 9; Gaz. vol. 177; p. 522.
Vetrovec, Jos. J., Chicago, Ill. "Diamond Lustre." (For Polish.) No. 16,455; July 9; Gaz. vol. 180; p. 600.
Vilas-Hanigan Cigar Co., Pierre, S. D. "Shriner." (For Cigars.) No. 16,602; Oct. 8; Gaz. vol. 183; p. 501.
Vreeland, C. J., Ashland, Ohio. "My Wife's Hairerbs." (For Hair-Tonics.) No. 16,183; Feb. 20; Gaz. vol. 175; p. 842.
Waldes & Co., Prague-Wrschowitz, Austria-Hungary. "Koh-i-noor Dress Fastener." (For Dress-Fastening Devices.) No. 16,395; June 11; Gaz. vol. 179; p. 571.
Walter M. Lowney Company, The, Boston, Mass. "Lowney's Chocolates and Bonbons." (For Chocolates and Bonbons.) Nos. 16,291–3; Apr. 16; Gaz. vol. 177; p. 768.
Walters, Warren E., Los Angeles, Cal. "Naturaline." (For a Mineralized Compound.) No. 16,173; Feb. 6; Gaz. vol. 175; p. 263.
Watkins, John T., Lansing, Mich. "Coffee Ranch." (For Coffee.) No. 16,335; May 7; Gaz. vol. 178; p. 318.
Weber Brewing Co., Waukesha, Wis. "Old Fashion Brew." (For Beer.) No. 16,673; Nov. 26; Gaz. vol. 184; p. 1071.
Weber, E. A. & Otto, Manila, Philippine Islands. "La Flor de Caritan." (For Cigars.) No. 16,629; Oct. 29; Gaz. vol. 183; p. 1306.
Western Slope Fruit Growers Association, The, Palisade, Colo. "Palisade Peaches." (For Peaches.) No. 16,553; Aug. 27; Gaz. vol. 181; p. 1071.
White Star Chemical Company, Paterson, N. J. "Perfection Leather Dressing." (For Perfection Leather-Dressing.) No. 16,340; May 14; Gaz. vol. 178; p. 589.
Whiteley, Robt., Jr., Carlinville, Ill. "King Rags." (For Cigars.) No. 16,294; Apr. 16; Gaz. vol. 177; p. 768.
Whiting, H. H., Minneapolis, Minn. "Success." (For Wheat-Flour.) No. 16,411; June 18; Gaz. vol. 179; p. 849.
Whiting, H. H., Minneapolis, Minn. "Minnesota Belle." (For Wheat-Flour.) No. 16,412; June 18; Gaz. vol. 179; p. 849.

Alphabetical list of registrants of labels—Continued.

Whiting, H. H., Minneapolis, Minn. "La Farine Blanche." (For Wheat-Flour.) No. 16,413; June 18; Gaz. vol. 179; p. 849.

Whiting, H. H., Minneapolis, Minn. "Chancellor." (For Wheat-Flour.) No. 16,414; June 18; Gaz. vol. 179; p. 849.

Whitman Chemical Co., Inc., Boston, Mass. "Gingermint." (For Chewing-Gum.) No. 16,700; Dec. 10; Gaz. vol. 185; p. 523.

Wiedmann-St. Louis Cigar Box Co., St. Louis, Mo. "Provana." (For Cigars.) No. 16,593; Oct. 1; Gaz. vol. 183; p. 216.

William Prym Company Limited, The, Stolberg, Germany, and New York, N. Y. "Prym's Cash Dress Fastener." (For Dress-Fasteners.) No. 16,735; Dec. 31; Gaz. vol. 185; p. 1378.

Windsor Broom Company, Hamburg, Pa. "Windsor." (For Brooms.) No. 16,447; July 2; Gaz. vol. 180; p. 320.

Woodcock & Son, John H., Hot Springs, Ark. "Southern Fibre Bath Necessities." (For Bath-Mitts and Bath-Straps.) No. 16,594; Oct. 1; Gaz. vol. 183; p. 216.

Woodelixir Manufacturing Company, St. Paul, Minn. "Woodelixir." (For Wood and Metal Polish or Cleaner.) No. 16,174; Feb. 6; Gaz. vol. 175; p. 263.

Woolson Spice Company, The, Toledo, Ohio. "Karex Blend Golden Sun Coffee." (For Coffee.) No. 16,415; June 18; Gaz. vol. 179; p. 849.

Woolson Spice Company, The, Toledo, Ohio. "Golden Sun Tea." (For Tea.) No. 16,471; July 16; Gaz. vol. 180; p. 877.

Wright Mfg. Co., Brooklyn, N. Y. "Skirts to Order, $1.00 From Your Own Material." (For Skirts.) No. 16,184; Feb. 20; Gaz. vol. 175; p. 842.

Wright Mfg. Co., Brooklyn, N. Y. "Suits to Order, $6.50 From your own Material." (For Suits.) No. 16,208; Feb. 27; Gaz. vol. 175; p. 1096.

Wyndham, Horace, New York, N. Y. "Simplex Three Hand Bridge." (For Score-Card and Bridge-Cloth.) No. 16,364; May 28; Gaz. vol. 178; p. 1150.

Yalowich Brothers' Drug Co., Rochester, N. Y. "Amarin." (For a Medicinal Preparation.) No. 16,448; July 2; Gaz. vol. 180; p. 320.

Youngstown Macaroni Co., The, Youngstown, Ohio. "Bersagliere Brand." (For Cotton-Seed Oil.) No. 16,592; Oct. 1; Gaz. vol. 183; p. 216.

Zimmerman Cigar Co., Chicago, Ill. "King Philip." (For Cigars.) No. 16,430; June 25; Gaz. vol. 179; p. 1105.

A. Schoenhut Company, The, Philadelphia, Pa. "The 'Schoenhut' All Wood Perfection Art Doll." (For Dolls.) No. 3,064; July 2; Gaz. vol. 180; p. 320.
A. Stein & Company, Chicago, Ill. "It's Something You Need." (For Garters.) No. 3,142; Nov. 26; Gaz. vol. 184; p. 1071.
Alabama Georgia Syrup Co., Montgomery, Ala. "Alaga Brand." (For Cane-Syrup.) No. 3,025; May 14; Gaz. vol. 178; p. 589.
Alabama-Georgia Syrup Company, Montgomery, Ala. "Attention." (For Syrup.) No. 3,068; July 16; Gaz. vol. 180; p. 877.
American Art Works, Coshocton, Ohio. "My Wife Knows! She's solved my troubles for heels and toes." (For Hosiery.) No. 3,056; June 25; Gaz. vol. 179; p. 1105.
American Axe & Tool Co., The, Glassport, Pa. "The Collie King Axe." (For the Collie King Ax.) No. 2,988; Apr. 16; Gaz. vol. 177; p. 768.
American Ironing Machine Company, Chicago, Ill. "Simplex." (For Ironing-Machines.) No. 3,143; Dec. 10; Gaz. vol. 185; p. 523.
American Tobacco Co., The, New York, N. Y. "Mecca." (For Cigarettes.) No. 3,095; Sept. 10; Gaz. vol. 182; p. 508.
Ammon & Person, Jersey City, N. J. "Creamery Butterine." (For Oleomargarin.) No. 2,934; Jan. 30; Gaz. vol. 174; p. 1216.
Appelbaum, Isaac, Philadelphia, Pa. "Appelbaum My Tailor." (For Clothing and Wearing-Apparel.) No. 2,942; Feb. 6; Gaz. vol. 175; p. 263.
Armour and Company, Chicago, Ill. "A Box Full of Beauty." (For Toilet Soap.) No. 2,954; Feb. 20; Gaz. vol. 175; p. 842.
Arnold, Wm. B., Eaton Rapids, Mich. "20th Century Calendar." (For Stay-Tongues for Shoes.) No. 3,112; Oct. 8; Gaz. vol. 183; p. 501.
Aseptic Products Company, Long Island City, N. Y. "Joy-Walk." (For Corn-Plasters.) No. 3,021; May 7; Gaz. vol. 178; p. 318.
B. V. D. Company, The, New York, N. Y. "B. V. D. Quarter Sleeve Union Suit." (For Athletic Underwear.) No. 2,956; Feb. 20; Gaz. vol. 175; p. 842.
B. V. D. Company, The, New York, N. Y. "B. V. D. 1912 Union Suit." (For Athletic Underwear.) No. 2,961; Feb. 27; Gaz. vol. 175; p. 1096.
B. V. D. Company, The, New York, N. Y. "B. V. D. 1912 Two Piece Suit." (For Athletic Underwear.) No. 2,962; Feb. 27; Gaz. vol. 175; p. 1096.
B. V. D. Company, The, New York, N. Y. "Make Fun of the Sun in Easy-Breezy B. V. D." (For Athletic Underwear.) No. 3,034; May 28; Gaz. vol. 178; p. 1150.
B. V. D. Company, The, New York, N. Y. "The Fanless Man Wears B. V. D." (For Athletic Underwear.) No. 3,035; May 28; Gaz. vol. 178; p. 1150.
B. V. D. Company, The, New York, N. Y. "'Go-Aways' and 'Stay-At-Homes.'" (For Athletic Underwear.) No. 3,036; May 28; Gaz. vol. 178; p. 1150.
B. V. D. Company, The, New York, N. Y. "'Bank on' B. V. D." (For Athletic Underwear.) No. 3,037; May 28; Gaz. vol. 178; p. 1150.
B. V. D. Company, The, New York, N. Y. "Afloat or Ashore In Town or Out Wear B. V. D." (For Athletic Underwear.) No. 3,038; May 28; Gaz. vol. 178; p. 1150.
Bacon, C. H., Loudon, Tenn. "Made-wel." (For Hosiery.) No. 3,039; May 28; Gaz. vol. 178; p. 1150.
Bauer Chemical Co., The, New York, N. Y. "Sanatogen." (For a Food Tonic.) No. 3,156; Dec. 24; Gaz. vol. 185; p. 1052.
Beatrice Creamery Co., Des Moines, Iowa, and Lincoln, Nebr. "Meadow Gold Butter—Sweet as the meadow—Pure as gold." (For Butter.) No. 3,099; Oct. 1; Gaz. vol. 183; p. 216.
Beech-Nut Packing Company, Canajoharie, N. Y. "Billy Beech Nut." (For Food Products.) No. 3,134; Nov. 12; Gaz. vol. 184; p. 548.
Beehler, William H., Baltimore, Md. "Beehler Umbrellas Fold and Fit the Suit-case." (For Umbrellas and Parasols.) No. 3,090; Sept. 3; Gaz. vol. 182; p. 246.
Berthe May, Inc., New York, N. Y. "Lucine." (For Corsets.) No. 3,081; Aug. 6; Gaz. vol. 181; p. 264.
Bing, John, New York, N. Y. "Bing's Lucky Penguins." (For Toys.) No. 2,935; Jan. 30; Gaz. vol. 174; p. 1216.
Bing, John, New York, N. Y. "Bing's Lucky Penguin." (For Toys.) No. 2,936; Jan. 30; Gaz. vol. 174; p. 1216.
Boston Novelty Co., Boston, Mass. "My Hat is in the Ring." (For Teddy Hats.) No. 3,047; June 11; Gaz. vol. 179; p. 571.
Brooke, Chas. W., Pittsburgh, Pa. "Was Not Coated With Highland Non-Corrosive Coating." (For Highland Non-Corrosive Coating.) No. 3,086; Aug. 27; Gaz. vol. 181; p. 1071.
Brown & Sehler Co., Grand Rapids, Mich. "Sunbeam Percheron Collars." (For Horse-Collars.) No. 3,113; Oct. 8; Gaz. vol. 183; p. 501.
Browning, Lehman S., Camden, N. J. "Funny Boys and Funny Girls." (For Funny Boys and Girls.) No. 3,114; Oct. 8; Gaz. vol. 183; p. 501.
Browning, Lehman S., Camden, N. J. "Funny Boys and Funny Girls." (For the Game of Funny Boys and Funny Girls.) No. 3,115; Oct. 8; Gaz. vol. 183; p. 501.
Brunswick Balke Collender Co., The, Chicago, Ill. "Monarch Cushions The Key to Perfect Billiard Playing." (For Monarch Cushions.) No. 2,955; Feb. 20; Gaz. vol. 175; p. 842.
Burrow, Jones & Dyer Shoe Co., St. Louis, Mo. "The 'Lady Jefferson' Girl." (For Shoes.) No. 3,040; May 28; Gaz. vol. 178; p. 1150.
C. A. Edgarton Mfg. Co., The, Shirley, Mass. "Shirley President Suspenders." (For Suspenders.) Nos. 2,984–6; Apr. 9; Gaz. vol. 177; p. 522.
C. A. Edgarton Mfg. Co., The, Shirley, Mass. "Shirley President Suspender Calendar." (For Shirley President Suspenders.) No. 3,103; Oct. 1; Gaz. vol. 183; p. 216.
Cahn, Belt & Co., Baltimore, Md. "The Man With The Decanter." (For Distilled Alcoholic Liquors.) No. 3,096; Sept. 10; Gaz. vol. 182; p. 508.
Cluett, Peabody & Company, Troy, N. Y. "Arrow Collars and Shirts." (For Arrow Collars and Shirts.) No. 3,031; May 21; Gaz. vol. 178; p. 883.
Cluett, Peabody & Company, Troy, N. Y. "Arrow Collars and Shirts." (For Collars and Shirts.) No. 2,043; June 4; Gaz. vol. 179; p. 284.
Cluett, Peabody & Company, Troy, N. Y. "Arrow Collars." (For Collars.) Nos. 3,058–9; July 2; Gaz. vol. 180; p. 320.
Cluett, Peabody & Company, Troy, N. Y. "Arrow Collars and Shirts." (For Collars and Shirts.) Nos. 3,138–40; Nov. 26; Gaz. vol. 184; p. 1071.
Cluett, Peabody & Co., Troy, N. Y. "Arrow Short Bosom Shirts." (For Shirts.) No. 3,144; Dec. 10; Gaz. vol. 185; p. 523.
Coca-Cola Bottling Co., The, Atlanta, Ga. "Drink Coca-Cola." (For Coca-Cola.) No. 2,989; Apr. 16; Gaz. vol. 177; p. 768.
Cochran, Drugan & Co., Hamilton township, Mercer county, N. J. "Siphon Jet Combination No. 2." (For Water-Closets.) No. 2,971; Mar. 19; Gaz. vol. 176; p. 747.
Cocoanut Specialty Co., The, Philadelphia, Pa. "Candy Goldilocks." (For Candy.) No. 3,118; Oct. 22; Gaz. vol. 183; p. 1030.
Consolidated Rubber Tire Company, New York, N. Y. "Winners 'Made To Make Good.'" (For Rubber Tires.) No. 3,026; May 14; Gaz. vol. 178; p. 589.
Cooper Mfg. Co., Bennington, Vt. "Cooper's Underwear Closed Crotch." (For Union Undergarments.) No. 3,066; July 9; Gaz. vol. 180; p. 600.
Cooper Mfg. Co., Bennington, Vt. "Cooper's Closed Crotch Underwear." (For Union Undergarments.) No. 3,087; Aug. 27; Gaz. vol. 181; p. 1071.
Cooper Underwear Co., Kenosha, Wis. "Klosed Krotch Union Suits." (For Underwear.) No. 3,145; Dec. 10; Gaz. vol. 185; p. 523.
Corn Products Refining Company, Jersey City, N. J. "Spread for Bread." (For Karo Corn-syrup.) No. 2,943; Feb. 6; Gaz. vol. 175; p. 263.
Cream of Wheat Co., Minneapolis, Minn. "He's Coming To It." (For Wheat Breakfast Food.) No. 2,928; Jan. 23; Gaz. vol. 174; p. 1024.
Cream of Wheat Co., Minneapolis, Minn. "Two Souls With But a Single Thought." (For Wheat Breakfast Food.) No. 2,957; Feb. 20; Gaz. vol. 175; p. 842.
Cream of Wheat Co., Minneapolis, Minn. "Nothin's too good fer the Irish!" (For Wheat Breakfast Food.) No. 2,977; Mar. 26; Gaz. vol. 176; p. 1068.
Cream of Wheat Co., Minneapolis, Minn. "Golly! Dey Done Stole Mah Camp Fiah." (For Wheat Breakfast Food.) No. 2,978; Mar. 26; Gaz. vol. 176; p. 1068.
Cream of Wheat Co., Minneapolis, Minn. "Cream of Wheat for 'Sail.'" (For Wheat Breakfast Food.) No. 2,990; Apr. 16; Gaz. vol. 177; p. 768.
Cream of Wheat Co., Minneapolis, Minn. "Stingy! Stingy! Want It All Do You?" (For Wheat Breakfast Food.) No. 3,027; May 14; Gaz. vol. 178; p. 589.
Cream of Wheat Co., Minneapolis, Minn. "I Done Had To Frame Rastus." (For Wheat Breakfast Food.) No. 3,045; June 11; Gaz. vol. 179; p. 571.

Alphabetical list of registrants of prints—Continued.

Cream of Wheat Co., Minneapolis, Minn. "In the good old Summer Time." (For Wheat Breakfast Food.) No. 3,076; July 30; Gaz. vol. 180; p. 1391.

Cream of Wheat Co., Minneapolis, Minn. "That Settles It." (For Wheat Breakfast Food.) No. 3,100; Oct. 1; Gaz. vol. 183; p. 216.

Cream of Wheat Co., Minneapolis, Minn. "A Visit With The Chef." (For Wheat Breakfast Food.) No. 3,119; Oct. 22; Gaz. vol. 183; p. 1030.

Cream of Wheat Co., Minneapolis, Minn. "A Labor of Love!" (For Wheat Breakfast Food.) No. 3,135; Nov. 12; Gaz. vol. 184; p. 548.

Cream of Wheat Co., Minneapolis, Minn. "Old Santa Knows What's Good to Eat." (For Wheat Breakfast Food.) No. 3,146; Dec. 10; Gaz. vol. 185; p. 523.

Crossingham Knitting Mills, Inc., Germantown, Pa. "Dr. Spencer's Sanitary Knit Underwear." (For a Combination Suit of Underwear.) No. 3,101; Oct. 1; Gaz. vol. 183; p. 216.

Curlee Clothing Co., St. Louis, Mo. "For Men and Young Men Curlee Clothes Are Always Right." (For Clothes.) No. 2,991; Apr. 16; Gaz. vol. 177; p. 768.

Curtis-Blaisdell Co., New York, N. Y. "When Ordering Coal Please Mention the Size Required." (For Coal.) No. 2,967; Mar. 5; Gaz. vol. 176; p. 272.

D. M. Ferry & Co., Detroit, Mich. "Ferry's Seeds." (For Ferry's Seeds.) No. 3,141; Nov. 26; Gaz. vol. 184; p. 1071.

Dawson Pharmacal Company, The, Dawsonsprings, Ky. "Products that have made Kentucky Famous." (For Iodinized Emulsion and Creosotonic.) No. 2,929; Jan. 23; Gaz. vol. 174; p. 1024.

De Laval Separator Company, The, New York, N. Y. "Le Laval Cream Separators." (For Cream-Separators.) No. 2,944; Feb. 6; Gaz. vol. 175; p. 263.

Delavan Condensed Milk Company, Chicago, Ill. "Delavan Brand Sterilized Modified Milk." (For Sterilized Modified Milk.) No. 2,937; Jan. 30; Gaz. vol. 174; p. 1216.

Derbyshire, Frederick W., Waltham, Mass. "Derbyshire Lathe Large and Small Chucks and Draw-in Spindle." (For Lathes, Large and Small Chucks, and Draw-in Spindles.) No. 2,968; Mar. 5; Gaz. vol. 176; p. 272.

Dickinson, Mary J., Chicago, Ill. "The Perfect Bias Folder." (For a Cloth-Folding Device.) No. 3,147; Dec. 10; Gaz. vol. 185; p. 523.

Druggists' Co-Operative Association, Inc., Detroit, Mich. "Depend on Val Dona." (For Val Dona Prescriptions.) No. 3,120; Oct. 22; Gaz. vol. 183; p. 1030.

Druggists' Co-Operative Association, Inc., Detroit, Mich. "The Val Dona Girl." (For Val Dona Prescriptions.) No. 3,121; Oct. 22; Gaz. vol. 183; p. 1030.

Durham-Duplex Razor Company, New York, N. Y. "Durham-Duplex Safe Razors." (For Durham-Duplex Razors and Blades.) No. 3,102; Oct. 1; Gaz. vol. 183; p. 216.

E. W. Burt & Company, Boston, Mass. "Ground Grippers Grip the Ground." (For Shoes with Flexible Shanks.) No. 3,065; July 9; Gaz. vol. 180; p. 600.

Electric Cleaner Co., Indianapolis, Ind. "Electric Rug and Carpet Cleaner." (For Rug and Carpet Cleaner.) No. 3,049; June 11; Gaz. vol. 179; p. 571.

F. W. Ketterer Medicine Co., The, Jacksonville, Fla. "Kebp." (For Ketterer's Excelsior Blood-Purifier.) No. 2,981; Apr. 2; Gaz. vol. 177; p. 238.

F. W. Ketterer Medicine Co., The, Jacksonville, Fla. "Ketterer's Liver Klenzor." (For Ketterer's Liver-Cleanser.) No. 2,982; Apr. 2; Gaz. vol. 177; p. 238.

Fleischmann Company, The, Cincinnati, Ohio, and New York, N. Y. "To feel better and live cheaper Eat More Bread." (For Bread and Yeast.) No. 3,154; Dec. 17; Gaz. vol. 185; p. 826.

Fleischmann Company, The, Cincinnati, Ohio, and New York, N. Y. "Eat bread—*more* bread." (For Bread and Yeast.) No. 3,155; Dec. 17; Gaz. vol. 185; p. 826.

Fleischmann Company, The, Cincinnati, Ohio, and New York, N. Y. "John Dough—raised on Fleischmann's Yeast." (For Bread and Yeast.) No. 3,163; Dec. 31; Gaz. vol. 185; p. 1378.

Fleischmann Company, The, Cincinnati, Ohio, and New York, N. Y. "Here's Good Advice to All: Eat More Bread Everybody Should Eat More Bread." (For Bread and Yeast.) No. 3,164; Dec. 31; Gaz. vol. 185; p. 1378.

Fleischmann Company, The, Cincinnati, Ohio, and New York, N. Y. "Give the Children Plenty of Bread." (For Bread and Yeast.) No. 3,165; Dec. 31; Gaz. vol. 185; p. 1378.

Fred Wolferman "Good Things to Eat" Co., Kansas City, Mo. "Tiffin Room Coffee." (For Coffee.) No. 3,022; May 7; Gaz. vol. 178; p. 318.

Fruit Dispatch Company, New York, N. Y. "Fruit Dispatch Company Import the Best." (For Bananas.) No. 3,050; June 18; Gaz. vol. 179; p. 849.

G. Mennen Chemical Company, Newark, N. J. "Mennen's Shaving Cream." (For Shaving-Cream.) No. 3,167; Dec. 31; Gaz. vol. 185; p. 1378.

Garner Print Works and Bleachery, West Haverstraw, Wappingers Falls, and New York, N. Y. "Guarantee, This garment is made of Material printed by the Garner Process." (For Garments.) No. 3,057; June 25; Gaz. vol. 179; p. 1105.

Gaube, Ernest W., Cleveland, Ohio. "Pin-Acus." (For a Balm.) No. 2,945; Feb. 6; Gaz. vol. 175; p. 263.

General Drug Company, New York, N. Y. "Midol." (For Remedy for Neuralgia and Headache.) No. 2,979; Mar. 26; Gaz. vol. 176; p. 1068.

General Drug Company, New York, N. Y. "Midol." (For a Remedy for Headache and Neuralgia.) No. 3,060; July 2; Gaz. vol. 180; p. 320.

Genesee Pure Food Company, The, Le Roy, N. Y. "Jell-O Raspberry Flavor." (For Jell-O.) No. 3,061; July 2; Gaz. vol. 180; p. 320.

Genesee Pure Food Company, The, Le Roy, N. Y. "Jell-O Strawberry Flavor." (For Jell-O.) No. 3,062; July 2; Gaz. vol. 180; p. 320.

Genesee Pure Food Company, The, Le Roy, N. Y. "Jell-O Peach Flavor." (For Jell-O.) No. 3,063; July 2; Gaz. vol. 180; p. 320.

Genseke, Herman, Streator, Ill. "Galaxy." (For Soap.) No. 3,023; May 7; Gaz. vol. 178; p. 318.

George Frost Company, Boston, Mass. "Everyman." (For Men's Garters.) No. 3,044; June 4; Gaz. vol. 179; p. 284.

Gerstendorfer Bros., New York, N. Y. "Sapolin." (For Sapolin.) No. 3,136; Nov. 12; Gaz. vol. 184; p. 548.

Goldman, Moses, New York, N. Y. "That's What You Will Get If You Take One Home." (For Sprayers.) No. 2,972; Mar. 19; Gaz. vol. 176; p. 747.

Grammes & Sons, L. F., Allentown, Pa. "Combination Tool and some of its uses." (For a Combination Box and Bottle Opener.) No. 3,157; Dec. 24; Gaz. vol. 185; p. 1052.

Gregoriou & Co., San Francisco, Cal. "Unguent." (For a Medicinal Preparation.) No. 3,158; Dec. 24; Gaz. vol. 185; p. 1052.

Guy G. Major Company, The, Toledo, Ohio. "O C O Tasteless Castor Oil." (For Castor-Oil.) No. 3,092; Sept. 3; Gaz. vol. 182; p. 246.

H. O. Wilbur & Sons, Inc., Philadelphia, Pa. "The Chocolate Wizard." (For Cocoa and Chocolate.) No. 3,032; May 21; Gaz. vol. 178; p. 883.

Hafertepen, Edwin B., Rochester, N. Y. "No-Hump." (For Collar-Buttons.) No. 2,973; Mar. 19; Gaz. vol. 176; p. 747.

Hall & Ruckel, New York, N. Y. "I Use Sozo Shaving Cream It's Great!" (For Shaving-Cream.) No. 3,159; Dec. 24; Gaz. vol. 185; p. 1052.

Harris, Abraham W., Providence, R. I. "Curve 300 Ft." (For Oils.) No. 3,069; July 16; Gaz. vol. 180; p. 877.

Harris, Abraham W., Providence, R. I. "Crossing 300 Ft." (For Oils.) No. 3,070; July 16; Gaz. vol. 180; p. 877.

Harris, Abraham W., Providence, R. I. "Hill 300 Ft." (For Oils.) No. 3,071; July 16; Gaz. vol. 180; p. 877.

Harris, Abraham W., Providence, R. I. "Bridge 300 Ft." (For Oils.) No. 3,072; July 16; Gaz. vol. 180; p. 877.

Harrison, Belle S., administratrix. (See Harrison, Henry H.)

Harrison, Henry H., deceased, New York, N. Y.; B. S. Harrison, administratrix. "H. H. Harrison's Rapidograph Duplicating Machine." (For Rapidograph Duplicating-Machine.) No. 2,963; Feb. 27; Gaz. vol. 175; p. 1096.

Hayes Lithographing Company, The, Buffalo, N. Y. "Piano Harvesting Machines." (For Harvesting-Machines.) No. 3,166; Dec. 31; Gaz. vol. 185; p. 1378.

Hetherington, Arthur F., New York, N. Y. "Spillno Tooth Powder." (For Tooth-Powder.) No. 3,014; Apr. 30; Gaz. vol. 177; p. 1294.

Hohman & Sons, C., Baltimore, Md. "Wait for Me." (For Hams, Bacon, and Lard.) No. 3,126; Nov. 5; Gaz. vol. 184; p. 284.

I. B. Kleinert Rubber Company, New York, N. Y. "Kleinerts Dress Shields." (For Dress-Shields.) No. 3,041; May 28; Gaz. vol. 178; p. 1150.

Interwoven Stocking Company, New Brunswick, N. J. "Interwoven Toe and Heel." (For Hosiery.) Nos. 2,946–7; Feb. 6; Gaz. vol. 175; p. 263.

J. C. Hirschman Co., The, Indianapolis, Ind. "Hirschman's Never Stretch 'Turkish Tufted' Cotton Felt Mattress." (For Mattresses.) No. 3,123; Oct. 29; Gaz. vol. 183; p. 1306.

J. and T. Cousins Company, Brooklyn, N. Y. "The Exquisite Note In Shoes." (For Shoes.) No. 3,015; Apr. 30; Gaz. vol. 177; p. 1294.

James S. Kirk & Company, Chicago, Ill. "The Spirit of Cleanliness." (For Soap.) No. 2,994; Apr. 23; Gaz. vol. 177; p. 1041.

Jersey City Printing Company, The, Jersey City, N. J. "The Cigar that put the O. K. in smoke." (For Cigars.) No. 3,124; Oct. 29; Gaz. vol. 183; p. 1306.

Joseph Banigan Rubber Co., The, Providence, R. I. "Banigan Rubbers." (For Rubbers.) No. 3,077; July 30; Gaz. vol. 180; p. 1391.

Joseph Campbell Company, Camden, N. J. "Campbell's Soup." (For Soups.) Nos. 2,995–3,006; Apr. 23; Gaz. vol. 177; p. 1041.

Alphabetical list of registrants of prints—Continued.

Kampfe Brothers, New York, N. Y. "Star Safety Razor." (For Star Safety-Razors.) No. 3,091; Sept. 3; Gaz. vol. 182; p. 246.
Kolynos Co., The, New Haven, Conn. "Kolynos How clean my mouth feels." (For Dental Cream.) No. 2,992; Apr. 16; Gaz. vol. 177; p. 768.
Krischer, Nathan A., New York, N. Y. "Krischer's Hy-Lo." (For Collar-Supporters.) No. 2,948; Feb. 6; Gaz. vol. 175; p. 263.
Kronberger, Israel B., San Rafael, Cal. "Help Wanted." (For Kronberger's California Compound Eucalyptus Syrup.) No. 2,938; Jan. 30; Gaz. vol. 174; p. 1216.
Larson, L. P., Jr., Chicago, Ill. "Peptomint Gum." (For Chewing-Gum.) No. 3,078; July 30; Gaz. vol. 180; p. 1391.
Leighton, Joseph, Los Angeles, Cal. "Nonpareil Hair Tonic de Luxe." (For a Hair-Tonic.) No. 3,028; May 14; Gaz. vol. 178; p. 589.
Mahn, Godfrey S., New York, N. Y. "The Barking Dog's Holiday Outfit." (For Smoking-Tobacco and Pipe-Smoker's Outfit.) No. 2,964; Feb. 27; Gaz. vol. 175; p. 1096.
Maldehyde Chemical Company, St. Louis, Mo. "Hysterone." (For Uterine Sedative.) No. 3,007; Apr. 23; Gaz. vol. 177; p. 1041.
Maldehyde Chemical Company, St. Louis, Mo. "Colspirin." (For Tablets for Grippe.) No. 3,008; Apr. 23; Gaz. vol. 177; p. 1041.
Maldehyde Chemical Company, St. Louis, Mo. "Nuxotone." (For a Tonic.) No. 3,009; Apr. 23; Gaz. vol. 177; p. 1041.
Maldehyde Chemical Company, St. Louis, Mo. "Nasal Tablets." (For Nasal Tablets.) No. 3,010; Apr. 23; Gaz. vol. 177; p. 1041.
Maldehyde Chemical Company, St. Louis, Mo. "Sankavine." (For Urinary Sedative.) No. 3,075; July 23; Gaz. vol. 180; p. 1136.
Manhattan Oil Company of Iowa, Des Moines, Iowa. "Trop-Artic." (For Automobile Lubricating-Oil.) No. 3,137; Nov. 12; Gaz. vol. 184; p. 548.
Marx & Haas Clothing Co., St. Louis, Mo. "The Wunder Waist-band." (For Trousers.) No. 3,045; June 4; Gaz. vol. 179; p. 284.
Mennillo & Lignante, New York, N. Y. "Elena." (For Cordials.) No. 2,949; Feb. 6; Gaz. vol. 175; p. 263.
Michael Bros., New York, N. Y. "Hercules Cloaks." (For Misses', Children's, and Infants' Cloaks.) No. 2,974; Mar. 19; Gaz. vol. 176; p. 747.
Miner, W. H., Chazy, N. Y. "Delicious Sausage, Heart's Delight Farm." (For Sausages.) No. 3,104; Oct. 1; Gaz. vol. 183; p. 216.
Minneapolis Brewing Company, Minneapolis, Minn. "Bock." (For Beer.) No. 3,082; Aug. 6; Gaz. vol. 181; p. 264.
Musil, Ferdinand L., Omaha, Nebr. "Alpa." (For Medicinal Herb Tea.) No. 3,083; Aug. 13; Gaz. vol. 181; p. 539.
Nathan D. Dodge Shoe Co., Newburyport, Mass. "Slippers The Correct Dodge for All Occasions." (For Ladies' Slippers.) No. 3,162; Dec. 31; Gaz. vol. 185; p. 1378.
National Stamping & Electric Works, Chicago, Ill. "Standard Lighting System." (For Lighting Systems.) No. 3,148; Dec. 10; Gaz. vol. 185; p. 523.
National Starch Company, New York, N. Y. "Kingsford's Oswego Corn Starch." (For Corn-Starch.) No. 3,088; Aug. 27; Gaz. vol. 181; p. 1071.
National Starch Company, New York, N. Y. "Kingsford's Oswego Corn Starch." (For Corn-Starch.) No. 3,097; Sept. 10; Gaz. vol. 182; p. 508.
New Home Sewing Machine Co., The, Orange, Mass. "The New Home Sewing Machine Co." (For Sewing-Machines.) No. 2,925; Jan. 2; Gaz. vol. 174; p. 286.
New York and London Drug Co., New York, N. Y. "Nylo Chocolates." (For Nylo Chocolates.) No. 3,105; Oct. 1; Gaz. vol. 183; p. 216.
Norfolk Hosiery and Underwear Mills Co., The, Norfolk, Va. "Dryfoot." (For Hosiery.) No. 3,011; Apr. 23; Gaz. vol. 177; p. 1041.
North Western Yeast Co., Chicago, Ill. "Yeast Foam." (For Yeast-Foam.) No. 2,958; Feb. 20; Gaz. vol. 175; p. 842.
Northwestern Yeast Co., Chicago, Ill. "Magic Yeast." (For Magic Yeast.) No. 2,975; Mar. 19; Gaz. vol. 176; p. 747.
Nungesser Carbon & Battery Co., The, Cleveland, Ohio. "Get Under Way & Get There." (For Dry Batteries.) No. 3,160; Dec. 24; Gaz. vol. 185; p. 1052.
Nunziato Son & Co., L., San Francisco, Cal. "Vesuvio." (For Alimentary Pastes.) No. 3,106; Oct. 1; Gaz. vol. 183; p. 216.
O'Callaghan & Fedden, New York, N. Y. "The Right Way The Wrong Way." (For Hosiery.) No. 2,976; Mar. 19; Gaz. vol. 176; p. 747.
Omaha Sugar Cone Co., Inc., Omaha, Nebr. "Sugaco Pure Food Good to Eat." (For Ice-Cream Cones.) No. 3,029; May 14; Gaz. vol. 178; p. 589.
Oriental Oil Company, Dallas, Tex. "Oriental Special Auto Oil." (For Automobile-Oil.) No. 2,937; Jan. 30; Gaz. vol. 174; p. 1216.
P. Lorillard Company, Jersey City, N. J. "Mogul Cork Tip Cigarettes Gulf to Lakes—Why?" (For Cigarettes.) No. 3,127; Nov. 5; Gaz. vol. 184; p. 284.
P. Lorillard Company, Jersey City, N. J. "Murad Turkish Cigarettes Everywhere—Why?" (For Cigarettes.) No. 3,128; Nov. 5; Gaz. vol. 184; p. 284.
P. Lorillard Company, Jersey City, N. J. "Luxury Cigarettes Cork Tip Ocean to Ocean—Why?" (For Cigarettes.) No. 3,129; Nov. 5; Gaz. vol. 184; p. 284.
P. Lorillard Company, Jersey City, N. J. "Murad Turkish Cigarettes Everywhere—Why?" (For Cigarettes.) No. 3,130; Nov. 5; Gaz. vol. 184; p. 284.
P. Lorillard Company, Jersey City, N. J. "Luxury Cigarettes Cork Tip Ocean to Ocean—Why?" (For Cigarettes.) No. 3,131; Nov. 5; Gaz. vol. 184; p. 284.
P. Lorillard Company, Jersey City, N. J. "Mogul Cork Tip Cigarettes Gulf to Lakes—Why?" (For Cigarettes.) No. 3,132; Nov. 5; Gaz. vol. 184; p. 284.
Pacific Coast Borax Co., New York, N. Y. "Mamma Says 'Borax brightens colors and prevents fading.'" (For 20-Mule-Team Borax.) No. 3,016; Apr. 30; Gaz. vol. 177; p. 1294.
Pacific Coast Borax Co., New York, N. Y. "Mamma Says 'Its the Borax with the Soap that saves the clothes.'" (For 20-Mule-Team Borax.) No. 3,017; Apr. 30; Gaz. vol. 177; p. 1294.
Pacific Coast Borax Co., New York, N. Y. "Mamma Says '20 Mule Team Borax Softens Hard Water.'" (For 20-Mule-Team Borax.) No. 3,018; Apr. 30; Gaz. vol. 177; p. 1294.
Peet Bros., Philadelphia, Pa. "Dress Styles Come and Go." (For Hooks and Eyes.) No. 2,930; Jan. 23; Gaz. vol. 174; p. 1024.
Pellegrini, Alfred, New York, N. Y. "Fravolio." (For Toilet Cream.) No. 2,926; Jan. 16; Gaz. vol. 174; p. 827.
Pennsylvania Sugar Company, Philadelphia, Pa. "Pennsylvania Sugar Co's. extra fine Quaker brand granulated Sugar." (For Sugar.) No. 3,107; Oct. 1; Gaz. vol. 183; p. 216.
Pepsi-Cola Company, The, Newbern, N. C. "Drink Pepsi-Cola." (For Pepsi-Cola.) No. 2,983; Apr. 2; Gaz. vol. 177; p. 238.
Pepsin Syrup Company, Monticello, Ill. "Dr. Caldwell's Syrup Pepsin." (For Syrup Pepsin.) No. 2,969; Mar. 5; Gaz. vol. 176; p. 272.
Philo Hay Specialties Co., Newark, N. J. "Hebe Bath Powder." (For Hebe Bath-Powder.) No. 3,094; Sept. 3; Gaz. vol. 182; p. 246.
Pittsburgh-Hickson Company, East Butler, Pa. "Brass Beds Make This Test." (For Brass Beds.) No. 3,024; May 7; Gaz. vol. 178; p. 318.
Pittsburgh-Hickson Company, East Butler, Pa. "A Guarantee That Means Something." (For Brass Beds.) No. 3,073; July 16; Gaz. vol. 180; p. 877.
Pittsburgh-Hickson Co., East Butler, Pa. "The Bond Behind the Bed." (For Brass Beds.) No. 3,079; July 30; Gaz. vol. 180; p. 1391.
Plex Preparations, Inc., New York, N. Y. "Plexo Cleansing Cream." (For Greaseless Cleansing-Cream.) No. 2,950; Feb. 6; Gaz. vol. 175; p. 263.
Providence Oil Company, Providence, R. I. "Never Wet." (For Waterproofing and Preservative Paste for Leather.) No. 2,931; Jan. 23; Gaz. vol. 174; p. 1024.
Republic Rubber Company, The, Youngstown, Ohio. "The Tire Perfect." (For Non-Skid Tires.) No. 2,980; Mar. 26; Gaz. vol. 176; p. 1068.
Revere Rubber Company, Providence, R. I., and Chelsea, Mass. "Spring-Step Rubber Heels." (For Rubber Heels.) Nos. 3,084–5; Aug. 13; Gaz. vol. 181; p. 539.
Revere Rubber Company, Providence, R. I., and Chelsea, Mass. "Spring Step Rubber Heels." (For Rubber Heels.) No. 3,116; Oct. 8; Gaz. vol. 183; p. 501.
Revere Rubber Company, Providence, R. I., and Chelsea, Mass. "Spring-Step Rubber Heels." (For Rubber Heels.) Nos. 3,149–52; Dec. 10; Gaz. vol. 185; p. 523.
Roberts, Johnson & Rand Shoe Co., St. Louis, Mo. "The Star Brand Girl." (For Shoes.) No. 2,993; Apr. 16; Gaz. vol. 177; p. 768.
Rohalds & Johnson Co., Brooklyn, Long Island City, and New York, N. Y.; Philadelphia, Pa.; Camden and Hainesport, N. J. "The Nujet." (For Water-Closets.) No. 3,042; May 28; Gaz. vol. 178; p. 1150.
Samuel W. Peck & Co., New York, N. Y. "Correct Posture Suit." (For Boys' Clothing.) No. 3,093; Sept. 3; Gaz. vol. 182; p. 246.
Schandein & Lind Co., Philadelphia, Pa. "Peppermint Breath Hearts." (For Perfumed Candy Tablets.) No. 2,940; Jan. 30; Gaz. vol. 174; p. 1216.
Schandein & Lind Co., Philadelphia, Pa. "Violet Breath Hearts." (For Perfumed Candy Tablets.) No. 2,941; Jan. 30; Gaz. vol. 174; p. 1216.
Sealy Mattress Company, Sugar Land, Tex. "The Sealy Salesman." (For Mattresses.) No. 2,951; Feb. 6; Gaz. vol. 175; p. 263.
Seiter & Kappes Lithographing Co., The, New York, N. Y. "Wilbur's Cocoa Can Puzzle and Scenic Picture." (For Cocoa.) No. 2,970; Mar. 12; Gaz. vol. 176; p. 524.

Alphabetical list of registrants of prints—Continued.

Sen Sen Chiclet Company, New York, N. Y. "Sen-Sen Chewing Gum." (For Chewing-Gum.) No. 3,033; May 21; Gaz. vol. 178; p. 883.
Seneca Camera Mfg. Co., Rochester, N. Y. "Seneca Cameras." (For Plates-Film Pack Roll Film.) No. 3,019; Apr. 30; Gaz. vol. 177; p. 1294.
Shaw, Lida M., Helena, Mont. "Won't You Come To My Party?" (For Shaw's Best Pancake-Flour.) No. 2,952; Feb. 6; Gaz. vol. 175; p. 263.
Shredded Wheat Company, The, Niagara Falls, N. Y. "A Warm Nourishing Meal." (For Shredded Wheat.) No. 2,959; Feb. 20; Gaz. vol. 175; p. 842.
Southern Cotton Oil Co., The, New York, N. Y. "Wesson Snowdrift Oil." (For Wesson Snowdrift Oil.) No. 2,932; Jan. 23; Gaz. vol. 174; p. 1024.
Southern Cotton Oil Co., The, New York, N. Y. "Snowdrift." (For Snowdrift.) No. 3,089; Aug. 27; Gaz. vol. 181; p. 1071.
Southern Cotton Oil Co., The, New York, N. Y. "Snowdrift." (For Snowdrift.) No. 3,153; Dec. 10; Gaz. vol. 185; p. 523.
Star Knitting Co., La Crosse, Wis. "Sweaterette." (For Knit Scarfs.) No. 3,108; Oct. 1; Gaz. vol. 183; p. 216.
Steffens, Jones and Co., New York, N. Y. "Please Order by the Number Shown on Each Band." (For Cigar-Labels.) No. 3,012; Apr. 23; Gaz. vol. 177; p. 1041.
Stewart, Richard F., New York, N. Y. "The Progressive Idea." (For Butter Printing and Wrapping Machines.) No. 3,122; Oct. 22; Gaz. vol. 183; p. 1030.
Tablet and Ticket Co., The, Chicago, Ill.; New York, N. Y., and San Francisco, Cal. "Gold Dust." (For a Cleansing Preparation.) No. 3,046; June 4; Gaz. vol. 179; p. 284.
Tetlow, Joseph, Philadelphia, Pa. "Tetlow's Swan Down for the Complexion." (For Powder for the Complexion.) No. 2,960; Feb. 20; Gaz. vol. 175; p. 842.
Treffer, Henry H., Davenport, Iowa. "Treffer Buttons." (For Buttons.) No. 3,125; Oct. 29; Gaz. vol. 183; p. 1306.
Udolpho Wolfe Company, New York, N. Y. "Wolfe's Schnapps." (For Schnapps.) No. 3,051; June 18; Gaz. vol. 179; p. 849.
Uncle Sam's Macaroni Co., The, Tecumseh, Mich. "Mac an' Roni." (For Macaroni.) No. 3,109; Oct. 1; Gaz. vol. 183; p. 216.
United Drug Co., Boston, Mass. "Harmony Rose Glycerine Soap." (For Soap.) No. 3,110; Oct. 1; Gaz. vol. 183; p. 216.
United Drug Company, Boston, Mass. "Symphony Lawn Writing Paper." (For Writing-Paper.) No. 3,117; Oct. 8; Gaz. vol. 183; p. 501.
United Shirt & Collar Co., Troy, N. Y. "Lion Collars." (For Collars.) No. 2,933; Jan. 23; Gaz. vol. 174; p. 1024.
United States Lithograph Co., The, Cincinnati and Norwood, Ohio. "That ever-Welcome Beer!" (For Beer.) No. 3,074; July 16; Gaz. vol. 180; p. 877.
Utah Lumber Company, Salt Lake City, Utah. "Alligator Hide Roofing." (For Composition Roofing.) No. 2,927; Jan. 16; Gaz. vol. 174; p. 827.
Van Houten & Zoon, C. J., New York, N. Y. "Van Houten's Cocoa." (For Cocoa.) No. 3,030; May 21; Gaz. vol. 178; p. 883.
Van Slyke, E. W., Oklahoma, Okla. "Nu-Flake." (For Flaked Cereal Food.) No. 2,965; Feb. 27; Gaz. vol. 175; p. 1096.
Vasa Company, The, Henderson, Ky. "Vas-O! For That Soreness." (For Vas-O.) No. 3,111; Oct. 1; Gaz. vol. 183; p. 216.
Vindex Shirt Company, Baltimore, Md. "Jim Dandy." (For Shirts.) No. 2,966; Feb. 27; Gaz. vol. 175; p. 1096.
W. F. Powers Company, The, New York, N. Y. "Crême Elcaya." (For a Toilet Preparation.) No. 3,013; Apr. 23; Gaz. vol. 177; p. 1041.
W. S. Quinby Company, Boston, Mass. "La Touraine, The Perfect Coffee." (For Coffee.) No. 2,953; Feb. 13; Gaz. vol. 175; p. 540.
Walbolt, Senor T., Toledo, Ohio. "Silver Moon Cannel." (For Coal.) No. 3,020; Apr. 30; Gaz. vol. 177; p. 1294.
Welch Grape Juice Co., The, Westfield, N. Y. "Welch's Grape Juice." (For Grape-Juice.) No. 2,987; Apr. 9; Gaz. vol. 177; p. 522.
Whiting, H. H., Minneapolis, Minn. "La Farine Blanche." (For Wheat-Flour.) No. 3,052; June 18; Gaz. vol. 179; p. 849.
Whiting, H. H., Minneapolis, Minn. "Success." (For Wheat-Flour.) No. 3,053; June 18; Gaz. vol. 179; p. 849.
Whiting, H. H., Minneapolis, Minn. "Chancellor." (For Wheat-Flour.) No. 3,054; June 18; Gaz. vol. 179; p. 849.
Whiting, H. H., Minneapolis, Minn. "Minnesota Belle." (For Wheat-Flour.) No. 3,055; June 18; Gaz. vol. 179; p. 849.
Wieland Dairy Company, Chicago, Ill. "Sure Pure." (For Dairy Products.) No. 3,161; Dec. 24; Gaz. vol. 185; p. 1052.
Williams, James P., Brooklyn, N. Y. "Brandimist." (For Non-Alcoholic Beverages.) No. 3,065; July 2; Gaz. vol. 180; p. 320.
Winchester Repeating Arms Co., New Haven, Conn. "Winchester Rifles and Cartridges The W Brand Meet Every Shooting Requirement." (For Winchester Rifles and Cartridges.) No. 3,080; July 30; Gaz. vol. 180; p. 1391.
Winchester Repeating Arms Co., New Haven, Conn. "Winchester Repeating Arms Co., New Haven, Conn." (For Guns and Cartridges of All Kinds.) No. 3,133; Nov. 5; Gaz. vol. 184; p. 284.
Wm. Simpson, Sons & Co., Philadelphia, Pa.; New York, N. Y.; Baltimore, Md.; Chicago, Ill., and St. Louis, Mo. "Berlin." (For Cotton Piece Goods.) No. 3,098; Sept. 10; Gaz. vol. 182; p. 508.

DISCLAIMER.

Adamson, Charles E., Buffalo, N. Y.; disclaimer filed by assignee, The Writerpress Company. Duplicating-machine. No. 1,015,256; disclaimer filed Feb. 8, 1912; Gaz. vol. 175; p. 847.

Bliss, William L., Brooklyn, N. Y.; disclaimer filed by assignee, The United States Light & Heating Company. Brush mechanism for dynamos. No. 707,754; disclaimer filed Oct. 28, 1912; Gaz. vol. 184; p. 1.

Cummer, Franklin D., Cleveland, Ohio; disclaimer filed by assignee, The F. D. Cummer & Son Company. Drying apparatus. No. 545,120; disclaimer filed Feb. 9, 1912; Gaz. vol. 175; p. 847.

Doering, Charles, Jr., Chicago, Ill.; disclaimer filed by assignee, Adams & Elting Co. Apparatus for coating articles with pulverulent material. No. 976,443; disclaimer filed June 13, 1912; Gaz. vol. 179; p. 859.

Fellner, Christian, Frankfort-on-the-Main, Germany; disclaimer filed by assignee, The Atlas Portland Cement Company. Manufacture of cement. No. 687,524; disclaimer filed Sept. 25, 1912; Gaz. vol. 183; p. 222.

Griffith, William, Pittsburgh, Pa.; disclaimer filed by executor, William Johns. Plating metals. No. 936,713; disclaimer filed Aug. 26, 1912; Gaz. vol. 182; p. 1.

Guenther, Paul, Dover, N. J.; disclaimer filed by patentee. Sectional plaiting device for straight-knitting machines. No. 878,724; disclaimer filed Mar. 15, 1912; Gaz. vol. 176; p. 771.

Herman, Reinhold, Crafton, Pa.; disclaimer filed by patentee. Printing apparatus. No. 777,096; disclaimer filed Dec. 28, 1911; Gaz. vol. 174; p. 588.

Hughes, William B., Cleveland, Ohio; disclaimer filed by assignee, Rose Manufacturing Company. Number-plate support for vehicles. No. 962,220; disclaimer filed May 11, 1912; Gaz. vol. 178; p. 597.

King, Charles W. G., Philadelphia, Pa.; disclaimer filed by assignee, The United States Metallic Packing Company. Metallic rod-packing ring. No. 914,426; disclaimer filed Nov. 19, 1912; Gaz. vol. 184; p. 807.

Layne, Mahlon E., Houston, Tex.; disclaimer filed by patentee. Well mechanism. No. 998,186; disclaimer filed July 2, 1912; Gaz. vol. 180; p. 609.

Mudge, Charles A., New York, N. Y., disclaimer filed by assignee, Electro-Dynamic Company. Dynamo-electric machine. No. 856,414; disclaimer filed Apr. 3, 1912; Gaz. vol. 177; p. 775.

Rice, Richard H., Lynn, Mass.; disclaimer filed by assignee. Combined emergency and throttle valve. No. 838,455; disclaimer filed Mar. 2, 1912; Gaz. vol. 176; p. 529.

Rice, Richard H., Lynn, Mass.; disclaimer filed by assignee, General Electric Company. Governing mechanism for air-compressors. No. 919,953; disclaimer filed Dec. 5, 1912; Gaz. vol. 185; p. 531.

Rixson, Oscar C., New York, N. Y.; disclaimer filed by patentee. Door-closing mechanism. No. 1,025,309; disclaimer filed July 6, 1912; Gaz. vol. 180; p. 885.

Rosenberger, Andrew F., Chicago, Ill.; disclaimer filed by trustee, Charles J. Schmidt. Lightning-protector. No. 970,556; disclaimer filed Feb. 5, 1912; Gaz. vol. 175; p. 271.

Schmidt, Franz, and Albert Grundmann, Berlin, Germany; disclaimer filed by assignee, Charles Fisher. Flexible shaft. No. 969,660; disclaimer filed Sept. 26, 1912; Gaz. vol. 183; p. 222.

Stewart, Samuel B., Jr., Schenectady, N. Y.; disclaimer filed by assignee, General Electric Company. Air-pump governor. No. 745,683; disclaimer filed Aug. 3, 1912; Gaz. vol. 181; p. 271.

ALPHABETICAL LIST OF INVENTIONS.

[Abbreviations: "Sp."=Monthly Volume of Specifications; "Gaz."=Official Gazette.

Abacus, Automatic. D. Yadu. No. 1,029,655; June 18; Sp. p. 3430; Gaz. vol. 179; p. 610.
Abdominal support for medical or surgical purposes. H. E. Curtis. No. 1,035,163; Aug. 13; Gaz. vol. 181; p. 285.
Abdominal supporter. L. N. Saeman. No. 1,019,365; Mar. 5; Sp. p. 832; Gaz. vol. 176; p. 124.
Abdominal supporter. K. L. Storm. No. 1,029,955; June 18; Sp. p. 4126; Gaz. vol. 179; p. 714.
Abdominal supporter. H. B. Shultz. No. 1,033,957; July 30; Gaz. vol. 180; p. 1210.
Abradant compound. L. C. Jablesnik. No. 1,034,712; Aug. 6; Gaz. vol. 181; p. 104.
Abrading-cylinder. F. L. Lane. No. 1,030,897; July 2; Gaz. vol. 180; p. 16.
Abrading device. W. A. Reed. No. 1,030,538; June 25; Sp. p. 5453; Gaz. vol. 179; p. 958.
Abrading device. H. Hallam. No. 1,030,778; June 25; Sp. p. 6175; Gaz. vol. 179; p. 1044.
Abrading device. H. Hallam. (Reissue.) No. 13,493; Dec. 10; Gaz. vol. 185; p. 504.
Abrading or cutting device. J. Hill, Sr. No. 1,027,842; May 28; Sp. p. 6008; Gaz. vol. 178; p. 1043.
Abrading-roll cleaner. W. T. Courtney. No. 1,039,262; Sept. 24; Gaz. vol. 182; p. 793.
Abrading-tool. W. A. Reed. No. 1,014,094; Jan. 9; Sp. p. 2240; Gaz. vol. 174; p. 375.
Abrading-wheel. R. Gardner. No. 1,027,536; May 28; Sp. p. 5375; Gaz. vol. 178; p. 941.
Abrading-wheel and mounting therefor. R. Gardner. No. 1,020,548; Mar. 19; Sp. p. 3268; Gaz. vol. 176; p. 584.
Abrasive. C. H. Casebolt. No. 1,039,487; Sept. 24; Gaz. vol. 182; p. 871.
Abrasive apparatus. E. J. Bein. No. 1,036,783; Aug. 27; Gaz. vol. 181; p. 911.
Abrasive articles, Making. F. W. Higgins. No. 1,013,657; Jan. 2; Sp. p. 1253; Gaz. vol. 174; p. 197.
Abrasive matter, Composition of. A. F. Blouin. No. 1,042,878; Oct. 29; Gaz. vol. 183; p. 1217.
Abrasive member. J. I. Hatch. No. 1,032,602; July 16; Gaz. vol. 180; p. 688.
Abrasive sheets, Joining. E. J. Bein. No. 1,037,582; Sept. 3; Gaz. vol. 182; p. 136.
Absorbent comb. F. W. Maley. No. 1,039,982; Oct. 1; Gaz. vol. 183; p. 104.
Absorbent product. V. Raisin. No. 1,021,477; Mar. 26; Sp. p. 5276; Gaz. vol. 176; p. 951.
Absorption apparatus. G. Aminoff. No. 1,019,003; Feb. 27; Sp. p. 6154; Gaz. vol. 175; p. 1057.
Accordions and the like, Operating mechanism for automatic. R. Glier. No. 1,018,661; Feb. 27; Sp. p. 5418; Gaz. vol. 175; p. 939.
Account-register. A. L. and K. Johnson. No. 1,021,152; Mar. 26; Sp. p. 4555; Gaz. vol. 176; p. 838.
Account-register. A. F. Staples. No. 1,022,007; Apr. 2; Sp. p. 553; Gaz. vol. 177; p. 86.
Account-register. A. F. Staples. No. 1,023,889; Apr. 23; Sp. p. 4527; Gaz. vol. 177, p. 811.
Account-register. A. F. Staples. No. 1,026,614; May 14; Sp. p. 3332; Gaz. vol. 178; p. 550.
Account-register. A. F. Staples. No. 1,026,615; May 14; Sp. p. 3335; Gaz. vol. 178; p. 550.
Account-register. J. L. Dulin. No. 1,030,289; June 25; Sp. p. 4849; Gaz. vol. 179; p. 868.
Account-register. S. W. Crane. No. 1,031,325; July 2; Gaz. vol. 180; p. 168.
Account-register. H. C. Guetschoff. No. 1,035,001; Aug. 6; Gaz. vol. 181; p. 200.
Account-register. A. F. Staples. No. 1,040,805; Oct. 8; Gaz. vol. 183; p. 416.
Accounting appliance, Credit-. P. A. McCaskey. (Reissue.) No. 13,390; Mar. 26; Sp. p. 5822; Gaz. vol. 176; p. 1043.
Accounting appliance, Credit-. A. L. Lambert. No. 1,030,785; June 25; Sp. p. 6193; Gaz. vol. 179; p. 1047.
Accounting-demonstrator, Pictorial. S. Kettridge. No. 1,033,806; July 30; Gaz. vol. 180; p. 1156.
Accounting system. E. C. Albree. No. 1,019,290; Mar. 5; Sp. p. 632; Gaz. vol. 176; p. 99.
Accumulator, Electrical. F. W. Hardy and E. H. Hungerbühler. No. 1,032,404; July 16; Gaz. vol. 180; p. 622.
Acetaldehyde and condensation and polymerization products thereof, Manufacture from acetylene of. N. Grünstein. No. 1,044,169; Nov. 12; Gaz. vol. 184; p. 423.
Acetyl-cellulose compound and making same. W. G. Lindsay. No. 1,045,990; Dec. 3; Gaz. vol. 185; p. 66.
Acetylene generating and storing apparatus. G. L. Eastman and A. Hicks. No. 1,028,558; June 4; Sp. p. 1081; Gaz. vol. 179; p. 164.
Acetylene-generator. L. Fallot. No. 1,016,681; Feb. 6; Sp. p. 1020; Gaz. vol. 175; p. 155.
Acetylene-generator. A. F. Jenkins. No. 1,023,850; Apr. 23; Sp. p. 4441; Gaz. vol. 177; p. 798.
Acetylene-generator. J. L. Richardson. No. 1,025,160; May 7; Sp. p. 104; Gaz. vol. 178; p. 19.
Acetylene-generator. J. Kilburn, J. W. Fairley, T. B. Kidner, W. H. Irvine, and W. T. Chestnut. No. 1,029,999; June 18; Sp. p. 4203; Gaz. vol. 179; p. 729.
Acetylene-generator. C. W. Beck. No. 1,033,864; July 30; Gaz. vol. 180; p. 1177.
Acetylene-generator. C. Delcampe. No. 1,038,489; Sept. 10; Gaz. vol. 182; p. 475.
Acetylene-generator. H. Rowntree. No. 1,046,651; Dec. 10; Gaz. vol. 185; p. 336.
Acetylene-generator, Automatic water-feed. I. Mumma. No. 1,014,715; Jan. 16; Sp. p. 3613; Gaz. vol, 174; p. 619.
Acetylene-generator, Carbid-feed. R. P. Elliott. No. 1,019,140; Mar. 5; Sp. p. 302; Gaz. vol. 176; p. 46.
Acetylene-tetrachlorids, Producing. G. Ornstein. No. 1,030,916; July 2; Gaz. vol. 180; p. 22.
Acid and alkali-silico-aluminate, Forming a charge mixture for producing hydrochloric. A. H. Cowles. No. 1,040,894; Oct. 8; Gaz. vol. 183; p. 444.
Acid and alkali-silico-aluminates, Producing hydrochloric. A. H. Cowles. No. 1,040,977; Oct. 8; Gaz. vol. 183; p. 474.
Acid and iron oxid from ferrous-sulfate sludge, Recovery of sulfuric. C. A. Weeks. No. 1,048,247; Dec. 24; Gaz. vol. 185; p. 944.
Acid and its salts, Manufacture of hypophosphoric. A. Rosenheim. No. 1,042,605; Oct. 29; Gaz. vol. 183; p. 1121.
Acid and making same, Allyl derivative of barbituric. E. Preiswerk and E. Grether. No. 1,042,265; Oct. 22; Gaz. vol. 183; p. 975.
Acid and making same, Amino-oxy-naphthalene sulfonic. H. Bucherer. No. 1,022,019; Apr. 2; Sp. p. 574; Gaz. vol. 177; p. 90.
Acid and making same, Calcium salt of acetyl salicylic. R. Berendes. No. 1,020,121; Mar. 12; Sp. p. 2376; Gaz. vol. 176; p. 406.
Acid and other products of hydrolysis of albuminous substances from one another by electrolysis, Separating glutamic. K. Ikeda and S. Suzuki. No. 1,015,891; Jan. 30; Sp. p. 6161; Gaz. vol. 174; p. 1074.
Acid, Apparatus for absorbing hydrofluoric. J. J. Dye. No. 1,016,219; Jan. 30; Sp. p. 6826; Gaz. vol. 174; p. 1186.
Acid, Apparatus for heating and utilizing hydrochloric. T. C. King. No. 1,038,389; Sept. 10; Gaz. vol. 182; p. 440.
Acid, Arylalkylbarbituric. H. Hoerlein. No. 1,025,526; May 7; Sp. p. 945; Gaz. vol. 178; p. 146.
Acid by electrolysis, Treating nitric. M. Moest and R. M. von Berneck. No. 1,040,379; Oct. 8; Gaz. vol. 183; p. 267.
Acid, Charge mixture for forming alkali-silico-aluminate and hydrochloric. A. H. Cowles. No. 1,040,893; Oct. 8; Gaz. vol. 183; p. 444.
Acid compounds, Manufacturing phosphoric-. F. Giese and W. Wolters. No. 1,025,619; May 7; Sp. p. 1158; Gaz. vol. 178; p. 177.
Acid, Concentrating nitric. H. Pauling. No. 1,031,864; July 9; Gaz. vol. 180; p. 396.
Acid, Concentrating nitric. H. Pauling. No. 1,031,865; July 9; Gaz. vol. 180; p. 396.
Acid containing iodin and mercury, Producing derivatives of cantharidic. A. Klein. No. 1,017,560; Feb. 13; Sp. p. 2915; Gaz. vol. 175; p. 493.
Acid-distributer. T. L. Briggs. No. 1,032,657; July 16; Gaz. vol. 180; p. 708.
Acid ester of meta-cresol and manufacture of same, Ortho-oxalic-. L. Kahl. No. 1,028,074; May 28; Sp. p. 6553; Gaz. vol. 178; p. 1118.
Acid ester, 2-phenylquinolin-4-carboxylic-. L. Taub. No. 1,022,444; Apr. 9; Sp. p. 1461; Gaz. vol. 177; p. 262.
Acid, Ethyl ester of 8-methoxy-2-phenylquinolin-4-carboxylic. M Dohrn. No. 1,045,378; Nov. 26; Gaz. vol. 184; p. 901.
Acid, 5-nitro-2-aminobenzene-1-arsinic. L. Benda. No. 1,036,784; Aug. 27; Gaz. vol. 181; p. 911.
Acid from the reaction mixture of formates and mineral acid, Preparation of formic. J. Weise. No. 1,043,985; Nov. 12; Gaz. vol. 184; p. 362.
Acid, Glycol ester of benzoic. L. Taub and H. Hahl. No. 1,014,859; Jan. 16; Sp. p. 3957; Gaz. vol. 174; p. 669.

Alphabetical list of inventions—Continued.

Acid ketones, Producing indigo-o-nitrophenyl-lactic. J. Koetschet and A. Barbier. No. 1,015,495; Jan. 23; Sp. p. 5320; Gaz. vol. 174; p. 912.
Acid-making apparatus, Sulfuric-. C. C. Meigs. No. 1,022,493; Apr. 9; Sp. p. 1557; Gaz. vol. 177; p. 279.
Acid, Making chlorosulfonic. A. Klages and H. Vollberg. No. 1,013,181; Jan. 2; Sp. p. 182; Gaz. vol. 174; p. 32.
Acid, Making formic. W. H. Walker. No. 1,048,609; Dec. 31; Gaz. vol. 185; p. 1107.
Acid, Manufacture of glycolic. O. Liebknecht. No. 1,013,502; Jan. 2; Sp. p. 901; Gaz. vol. 174; p. 144.
Acid, Manufacture of phosphoric. M. Dittmar. No. 1,018,746; Feb. 27; Sp. p. 5602; Gaz. vol. 175; p. 969.
Acid, Manufacture of sulfuric. W. Fulda. No. 1,048,953; Dec. 31; Gaz. vol. 185; p. 1227.
Acid, Manufacturing available phosphoric. J. H. Connor. No. 1,042,400; Oct. 29; Gaz. vol. 183; p. 1048.
Acid, Manufacturing available phosphoric. J. H. Connor. No. 1,042,401; Oct. 29; Gaz. vol. 183; p. 1048.
Acid, Manufacturing available phosphoric. J. H. Connor. No. 1,042,402; Oct. 29; Gaz. vol. 183; p. 1048.
Acid, Methyl ester of, 8-methoxy-2-phenylquinolin-4-carboxylic. M. Dohrn. No. 1,045,377; Nov. 26; Gaz. vol. 184; p. 901.
Acid, Methyl ester of 6-methyl-2-phenylquinolin-4-carboxylic. M. Dohrn. No. 1,045,379; Nov. 26; Gaz. vol. 184; p. 901.
Acid, Methyl ester of 6-methyl-2-phenylquinolin-4-carboxylic. A. Thiele. No. 1,045,759; Nov. 26; Gaz. vol. 184; p. 1037.
Acid, Obtaining pure tungstic. T. Ban. No. 1,049,193; Dec. 31; Gaz. vol. 185; p. 1309.
Acid of the safranin series and making same, Trisulfonic. O. Sohst. No. 1,015,354; Jan. 23; Sp. p. 5003; Gaz. vol. 174; p. 864.
Acid, Phenylethylbarbituric. H. Hoerlein. No. 1,025,872; May 7; Sp. p. 1686; Gaz. vol. 178; p. 263.
Acid, Phenylethylbarbituric. H. Hoerlein. (Reissue.) No. 13,477; Oct. 15; Gaz. vol. 183; p. 754.
Acid, Producing the calcium salt of acetyl salicylic. R. Berendes. No. 1,020,181; Mar. 12; Sp. p. 2508; Gaz. vol. 176; p. 427.
Acid, Producing the calcium salt of acetyl salicylic. R. Berendes. No. 1,020,182; Mar. 12; Sp. p. 2508; Gaz. vol. 176; p. 427.
Acid, Production of nitric. F. W. De Jahn. No. 1,023,133; Apr. 16; Sp. p. 2981; Gaz. vol. 177; p. 536.
Acid, Production of oxalic. F. A. Lidbury. No. 1,031,074; July 2; Gaz. vol. 180; p. 80.
Acid-tank. S. Q. Wilkinson. No. 1,036,761; Aug. 27; Gaz. vol. 181; p. 903.
Acid, 2.5-diaminobenzene-arsinic. L. Benda. No. 1,040,260; Oct. 8; Gaz. vol. 183; p. 227.
Acids and homologues, Manufacture of phenylated 6.6-diquinolyl-4.4-dicarboxylic. M. Dohrn and A. Thiele. No. 1,032,123; July 9; Gaz. vol. 180; p. 480.
Acids and making the same, Chlor-aralkyl-sulfonic. O. Schmidt. No. 1,025,652; May 7; Sp. p. 1223; Gaz. vol. 178; p. 188.
Acids and producing same, Quinin esters of aromatic amino. H. Thron. No. 1,019,285; Mar. 5; Sp. p. 624; Gaz. vol. 176; p. 97.
Acids from nitrocellulose and centrifugal machine therefor, Removal of. F. I. Du Pont. No. 1,024,624; Apr. 30; Sp. p. 6227; Gaz. vol. 177; p. 1098.
Acids from their calcium salts, Manufacture of volatile organic. R. S. Swinton. No. 1,023,281; Apr. 16; Sp. p. 3296; Gaz. vol. 177; p. 589.
Acids from their esters, Manufacture of fatty. W. Connstein. No. 1,015,994; Jan. 30; Sp. p. 6379; Gaz. vol. 174; p. 1110.
Acids, Manufacturing anhydrids of fatty. J. Weber. No. 1,018,733; Feb. 27; Sp. p. 5565; Gaz. vol. 175; p. 963.
Acids of high molecular weight, Alkyl esters of diiodo fatty. A. Baselli. No. 1,024,171; Apr. 23; Sp. p. 5171; Gaz. vol. 177; p. 908.
Acids, Producing iron albuminates of organomineral. P. Hoering and O. Kippe. No. 1,025,466; May 7; Sp. p. 801; Gaz. vol. 178; p. 125.
Acids, their glycerids, and other esters into the corresponding saturated compounds, Conversion of unsaturated fatty. F. Bedford and C. E. Williams. No. 1,026,339; May 14; Sp. p. 2759; Gaz. vol. 178; p. 461.
Acids, 2-alkoxy-5-disubstituted barbituric. M. Engelmann. No. 1,038,101; Sept. 10; Gaz. vol. 182; p. 343.
Acids, 2-alkoxy-5-monosubstituted barbituric. M. Engelmann. No. 1,038,102; Sept. 10; Gaz. vol. 182; p. 343.
Acoumeter. C. J. Pilling. No. 1,017,795; Feb. 20; Sp. p. 3459; Gaz. vol. 175; p. 609.
Acoustic apparatus. E. Rubes. No. 1,049,272; Dec. 31; Gaz. vol. 185; p. 1336.
Acoustical instrument. L. Lumiere. No. 1,036,529; Aug. 20; Gaz. vol. 181; p. 794.
Acoustical instrument. L. Lumiere. No. 1,039,155; Sept. 24; Gaz. vol. 182; p. 753.
Activity-recorder. J. W. Dougherty. No. 1,041,252; Oct. 15; Gaz. vol. 183; p. 600.
Actuating device. I. B. Leibson. No. 1,037,271; Sept. 3; Gaz. vol. 182; p. 31.
Actuating mechanism. G. Sim. No. 1,018,014; Feb. 20; Sp. p. 3958; Gaz. vol. 175; p. 685.
Adapter. T. Deaderick. No. 1,035,692; Aug. 13; Gaz. vol. 181; p. 467.
Adapter-box. M. Schmitt. No. 1,048,896; Dec. 31; Gaz. vol. 185; p. 1208.
Adding and listing machine. J. G. Vincent. No. 1,013,910; Jan. 9; Sp. p. 1831; Gaz. vol. 174; p. 313.
Adding and listing machine. R. E. Benner. No. 1,013,923; Jan. 9; Sp. p. 1860; Gaz. vol. 174; p. 318.
Adding and listing machine. W. J. Kilpatrick. No. 1,016,276; Feb. 6; Sp. p. 74; Gaz. vol. 175; p. 14.
Adding and listing machine. C. H. Walker. No. 1,016,308; Feb. 6; Sp. p. 157; Gaz. vol. 175; p. 25.
Adding and listing machine. E. Williamson. No. 1,017,068; Feb. 13; Sp. p. 1859; Gaz. vol. 175; p. 323.
Adding and listing machine. N. White. No. 1,018,285; Feb. 20; Sp. p. 4532; Gaz. vol. 175; p. 779.
Adding and listing machine. J. G. Vincent and R. E. Benner. No. 1,028,162; June 4; Sp. p. 201; Gaz. vol. 179; p. 28.
Adding and listing machine. E. L. Matthews. No. 1,028,896; June 11; Sp. p. 1790; Gaz. vol. 179; p. 313.
Adding and listing machine. R. E. Benner. No. 1,046,546; Dec. 10; Gaz. vol. 185; p. 300.
Adding and listing machine. N. White. No. 1,048,249; Dec. 24; Gaz. vol. 185; p. 945.
Adding and listing or recording machine. A. I. Gancher. No. 1,047,199; Dec. 17; Gaz. vol. 185; p. 555.
Adding and printing machine. J. M. Tourtel. No. 1,021,588; Mar. 26; Sp. p. 5504; Gaz. vol. 176; p. 989.
Adding and recording machine. J. Raber. No. 1,033,932; July 30; Gaz. vol. 180; p. 1201.
Adding and recording machine. J. L. Dalton and J. Magnus. No. 1,049,057; Dec. 31; Gaz. vol. 185; p. 1264.
Adding and subtracting machine. J. G. Vincent. No. 1,027,511; May 28; Sp. p. 5320; Gaz. vol. 178; p. 932.
Adding and subtracting machine. J. G. Vincent. No. 1,028,161; June 4; Sp. p. 183; Gaz. vol. 179; p. 28.
Adding and writing machine. H. Hopkins. No. 1,039,130; Sept. 24; Gaz. vol. 182; p. 745.
Adding and writing machine. H. Hopkins. No. 1,049,093; Dec. 31; Gaz. vol. 185; p. 1276.
Adding apparatus and pencil-box, Combined. G. Krüger. No. 1,028,227; June 4; Sp. p. 372; Gaz. vol. 179; p. 52.
Adding-counter. W. F. Mullaney. No. 1,035,629; Aug. 13; Gaz. vol. 181; p. 446.
Adding-machine. C. O. Mapel. No. 1,013,192; Jan. 2; Sp. p. 204; Gaz. vol. 174; p. 36.
Adding-machine. J. P. Harrison. No. 1,015,227; Jan. 16; Sp. p. 4697; Gaz. vol. 174; p. 792.
Adding-machine. A. I. Gancher. No. 1,015,307; Jan. 23; Sp. p. 4891; Gaz. vol. 174; p. 847.
Adding-machine. A. A. Horton. No. 1,016,501; Feb. 6; Sp. p. 605; Gaz. vol. 175; p. 93.
Adding-machine. G. B. Putnam. No. 1,018,371; Feb. 20; Sp. p. 4707; Gaz. vol. 175; p. 807.
Adding-machine. W. J. Pasinski. No. 1,023,168; Apr. 16; Sp. p. 3060; Gaz. vol. 177; p. 549.
Adding-machine. J. G. Vincent. No. 1,023,895; Apr. 23; Sp. p. 4544; Gaz. vol. 177; p. 813.
Adding-machine. W. E. Swalm. No. 1,028,149; June 4; Sp. p. 153; Gaz. vol. 179; p. 23.
Adding-machine. C. A. Lundgren. No. 1,033,109; July 23; Gaz. vol. 180; p. 899.
Adding-machine. J. W. Witsell. No. 1,035,066; Aug. 6; Gaz. vol. 181; p. 221.
Adding-machine. T. Teraoka. No. 1,036,375; Aug. 20; Gaz. vol. 181; p. 741.
Adding-machine. J. R. Harbeck. No. 1,036,614; Aug. 27; Gaz. vol. 181; p. 856.
Adding-machine. W. H. Muzzy. No. 1,039,783; Oct. 1; Gaz. vol. 183; p. 39.
Adding-machine. J. G. Vincent. No. 1,043,882; Nov. 12; Gaz. vol. 184; p. 325.
Adding-machine. P. E. Reese. No. 1,044,690; Nov. 19; Gaz. vol. 184; p. 635.
Adding-machine. E. S. Church. No. 1,045,258; Nov. 26; Gaz. vol. 184; p. 860.
Adding-machine. J. G. Vincent and A. A. Horton. No. 1,046,513; Dec. 10; Gaz. vol. 185; p. 288.
Adding-machine. N. White. No. 1,046,521; Dec. 10; Gaz. vol. 185; p. 291.
Adding-machine. H. C. Peters. No. 1,048,093; Dec. 24; Gaz. vol. 185; p. 895.
Adding-machine. G. Koenig. No. 1,048,321; Dec. 24; Gaz. vol. 185; p. 970.
Adding-machine, &c. A. H. Ellis. No. 1,024,397; Apr. 23; Sp. p. 5612; Gaz. vol. 177; p. 984.
Adding-machine, Pocket. P. E. Saehrendt. No. 1,035,475; Aug. 13; Gaz. vol. 181; p. 394.
Adding-machine ribbon-spool. W. A. Rotter. No. 1,038,660; Sept. 17; Gaz. vol. 182; p. 569.
Adding-machines, Eliminating-key for. C. N. McFarland. No. 1,024,013; Apr. 23; Sp. p. 4802; Gaz. vol. 177; p. 853.
Adding, subtracting, and multiplying machine. S. B. Austin. No. 1,034,565; Aug. 6; Gaz. vol. 181; p. 55.
Address-plate. H. C. Gammeter. No. 1,038,868; Sept. 17; Gaz. vol. 182; p. 642.
Addressing and other machines, Feeding mechanism for. S. C. Cox. No. 1,033,232; July 23; Gaz. vol. 180; p. 942.

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Addressing and printing machine. U. G. Lee. No. 1,014,762; Jan. 16; Sp. p. 3714; Gaz. vol. 174; p. 634.
Addressing-machine. S. Elliott. No. 1,025,459; May 7; Sp. p. 781; Gaz. vol. 178; p. 123.
Addressing-machine. W. W. Tuck. No. 1,026,416; May 14; Sp. p. 2933; Gaz. vol. 178; p. 486.
Addressing-machine. S. Elliott. No. 1,029,112; June 11; Sp. p. 2265; Gaz. vol. 179; p. 387.
Addressing-machine. D. C. Hughes. No. 1,043,108; Nov. 5; Gaz. vol. 184; p. 21.
Addressing-machine. E. T. Winkler. No. 1,044,616; Nov. 19; Gaz. vol. 184; p. 608.
Addressing-machines, Inking-ribbon mechanism for. U. G. Lee. No. 1,017,221; Feb. 13; Sp. p. 2219; Gaz. vol. 175; p. 377.
Addressing-machines, Type-plate for. D. C. Hughes. No. 1,036,118; Aug. 20; Gaz. vol. 181; p. 650.
Adhesive. C. B. Hunter. No. 1,035,090; Aug. 6; Gaz. vol. 181; p. 229.
Adhesive-plaster spool. P. S. Bauer. No. 1,023,236; Apr. 16; Sp. p. 3196; Gaz. vol. 177; p. 572.
Adhesives, Machine for heating and applying. J. B. Hadaway. No. 1,048,527; Dec. 31; Gaz. vol. 185; p. 1080.
Adhesives, Producing. R. Heim. No. 1,018,559; Feb. 27; Sp. p. 5214; Gaz. vol. 175; p. 906.
Adjustable bracket. W. D. Whitney. No. 1,028,515; June 4; Sp. p. 993; Gaz. vol. 179; p. 150.
Adjustable chair. J. F. Walton. No. 1,018,460; Feb. 27; Sp. p. 4925; Gaz. vol. 175; p. 870.
Adjustable chair. M. L. Cromer. No. 1,028,548; June 4; Sp. p. 1051; Gaz. vol. 179; p. 160.
Adjustable chair. J. F. Walton and W. T. Favorite. No. 1,037,565; Sept. 3; Gaz. vol. 182; p. 131.
Adjustable chair. S. C. Eddy. No. 1,046,571; Dec. 10; Gaz. vol. 185; p. 308.
Adjustable chair. J. F. Walton. No. 1,046,693; Dec. 10; Gaz. vol. 185; p. 352.
Adjustable clamp. D. Masor. No. 1,043,711; Nov. 5; Gaz. vol. 184; p. 234.
Adjustable press, Automatic. C. B. Albree. No. 1,035,828; Aug. 20; Gaz. vol. 181; p. 549.
Adjustable seat for sidehill implements. C. and E. G. Young. No. 1,039,004; Sept. 17; Gaz. vol. 182; p. 688.
Adjusting device. L. C. Temple. No. 1,036,026; Aug. 20; Gaz. vol. 181; p. 616.
Adjusting mechanism. O. M. Johnson and E. R. McConnell. No. 1,044,055; Nov. 12; Gaz. vol. 184; p. 385.
Advertisement apparatus. E. E. Courtin. No. 1,035,861; Aug. 20; Gaz. vol. 181; p. 561.
Advertisement device, Moving. E. L. Niles. No. 1,015,241; Jan. 16; Sp. p. 4731; Gaz. vol. 174; p. 797.
Advertisement-displaying apparatus. J. T. Roffy. No. 1,026,126; May 14; Sp. p. 2293; Gaz. vol. 178; p. 387.
Advertisement-displaying apparatus. M. E. Pudney. No. 1,036,707; Aug. 27; Gaz. vol. 181; p. 886.
Advertising and signaling device, Electric. W. S. Ryan. No. 1,017,172; Feb. 13; Sp. p. 2099; Gaz. vol. 175; p. 360.
Advertising apparatus. P. Hart. No. 1,014,469; Jan. 9; Sp. p. 3047; Gaz. vol. 174; p. 505.
Advertising apparatus. J. J. Sleeper. No. 1,016,371; Feb. 6; Sp. p. 294; Gaz. vol. 175; p. 46.
Advertising apparatus. G. P. Kent. No. 1,016,944; Feb. 13; Sp. p. 1582; Gaz. vol. 175; p. 279.
Advertising apparatus. W. H. Bradley. No. 1,024,177; Apr. 23; Sp. p. 5182; Gaz. vol. 177; p. 910.
Advertising attachment for theatrical curtains, Rotary. J. C. Taylor. No. 1,045,637; Nov. 26; Gaz. vol. 184; p. 995.
Advertising-cabinet. L. H. Baker. No. 1,030,862; July 2; Gaz. vol. 180; p. 4.
Advertising-cabinet. H. S. Williams. No. 1,033,058; July 16; Gaz. vol. 180; p. 843.
Advertising-card. H. K. Tabler. No. 1,036,930; Aug. 27; Gaz. vol. 181; p. 959.
Advertising-card. W. D. Baring-Gould. No. 1,041,573; Oct. 15; Gaz. vol. 183; p. 705.
Advertising device. D. Farnum. No. 1,015,431; Jan. 23; Sp. p. 5171; Gaz. vol. 174; p. 889.
Advertising device. A. J. Clark. No. 1,016,212; Jan. 30; Sp. p. 6815; Gaz. vol. 174; p. 1184.
Advertising device. H. C. Avery. No. 1,020,956; Mar. 26; Sp. p. 4155; Gaz. vol. 176; p. 773.
Advertising device. T. R. Geisel. No. 1,021,516; Mar. 26; Sp. p. 5366; Gaz. vol. 176; p. 966.
Advertising device. J. E. Fiko and M. Killian. No. 1,024,252; Apr. 23; Sp. p. 5358; Gaz. vol. 177; p. 939.
Advertising device. W. C. Cutler and G. I. Leonard. No. 1,026,242; May 14; Sp. p. 2544; Gaz. vol. 178; p. 426.
Advertising device. F. W. Brock. No. 1,027,811; May 28; Sp. p. 5943; Gaz. vol. 178; p. 1031.
Advertising device. J. J. Lepper. No. 1,029,618; June 18; Sp. p. 3361; Gaz. vol. 179; p. 598.
Advertising device. J. J. Woolfenden. No. 1,034,182; July 30; Gaz. vol. 180; p. 1288.
Advertising device. C. F. Chouffet. No. 1,035,418; Aug. 13; Gaz. vol. 181; p. 375.
Advertising device. J. Gerhardt. No. 1,035,574; Aug. 13; Gaz. vol. 181; p. 428.
Advertising device. J. P. Bergeron. No. 1,037,855; Sept. 10; Gaz. vol. 182; p. 258.
Advertising device. A. Pearse. No. 1,037,978; Sept. 10; Gaz. vol. 182; p. 304.
Advertising device. W. E. Younger. No. 1,038,057; Sept. 10; Gaz. vol. 182; p. 329.
Advertising device. C. C. Kelley. No. 1,038,149; Sept. 10; Gaz. vol. 182; p. 358.
Advertising device. C. E. Burger. No. 1,038,844; Sept. 17; Gaz. vol. 182; p. 634.
Advertising device. C. K. Fotheringham and A. R. Laing. No. 1,040,534; Oct. 8; Gaz. vol. 183; p. 322.
Advertising device. C. W. Nichols. No. 1,041,149; Oct. 15; Gaz. vol. 183; p. 564.
Advertising device. J. Gönczy. No. 1,042,783; Oct. 29; Gaz. vol. 183; p. 1184.
Advertising device. J. T. H. Mitchell. No. 1,043,243; Nov. 5; Gaz. vol. 184; p. 70.
Advertising device. W. M. Turner. No. 1,045,221; Nov. 26; Gaz. vol. 184; p. 847.
Advertising device. B. Cohen. No. 1,045,372; Nov. 26; Gaz. vol. 184; p. 899.
Advertising device. M. E. Torrey. No. 1,045,642; Nov. 26; Gaz. vol. 184; p. 996.
Advertising device. H. G. Mingo. No. 1,046,318; Dec. 3; Gaz. vol. 185; p. 181.
Advertising device. E. V. Gustavson. No. 1,047,047; Dec. 10; Gaz. vol. 185; p. 470.
Advertising device. G. E. Francis. No. 1,047,779; Dec. 17; Gaz. vol. 185; p. 761.
Advertising device. C. A. Hibschman. No. 1,048,159; Dec. 24; Gaz. vol. 185; p. 917.
Advertising device, Automatic. W. A. Murphey. No. 1,019,688; Mar. 5; Sp. p. 1484; Gaz. vol. 176; p. 230.
Advertising device, Electrical. N. O. Anderson and F. O. Hutchings. No. 1,036,411; Aug. 20; Gaz. vol. 181; p. 754.
Advertising device, Street-car. C. V. Hill. No. 1,020,351; Mar. 12; Sp. p. 2837; Gaz. vol. 176; p. 481.
Advertising device, Street-car. W. F. Sweet. No. 1,027,780; May 28; Sp. p. 5868; Gaz. vol. 178; p. 1021.
Advertising display device. J. Stranders. No. 1,030,031; June 18; Sp. p. 4272; Gaz. vol. 179; p. 740.
Advertising display mechanism. R. Ard. No. 1,040,988; Oct. 15; Gaz. vol. 183; p. 511.
Advertising display mechanism. A. L. Runyan. No. 1,045,750; Nov. 26; Gaz. vol. 184; p. 1034.
Advertising-machine. H. Atherton. No. 1,024,242; Apr. 23; Sp. p. 5339; Gaz. vol. 177; p. 935.
Advertising-machine. C. H. King, Jr. No. 1,035,602; Aug. 13; Gaz. vol. 181; p. 437.
Advertising-machine, Moving. W. W. Bates. No. 1,015,122; Jan. 16; Sp. p. 4506; Gaz. vol. 174; p. 759.
Advertising medium. G. T. Fielding, Jr. No. 1,020,815; Mar. 19; Sp. p. 3850; Gaz. vol. 176; p. 674.
Advertising medium and fly-trap, Combined. W. W. Donaldson. No. 1,024,187; Apr. 23; Sp. p. 5217; Gaz. vol. 177; p. 914.
Advertising novelty. F. G. Fawkes. No. 1,014,961; Jan. 16; Sp. p. 4182; Gaz. vol. 174; p. 704.
Advertising or display device. T. Kharas. No. 1,030,734; June 25; Sp. p. 6036; Gaz. vol. 179; p. 1028.
Aerating liquids. L. Neumayer. No. 1,045,066; Nov. 19; Gaz. vol. 184; p. 765.
Aeration of liquids. A. J. Billows. No. 1,017,240; Feb. 13; Sp. p. 2253; Gaz. vol. 175; p. 383.
Aerial and other machines, Propelling apparatus for. C. J. Lake. No. 1,017,564; Feb. 13; Sp. p. 2920; Gaz. vol. 175; p. 494.
Aerial and other vessel. A. Horton. No. 1,019,646; Mar. 5; Sp. p. 1409; Gaz. vol. 176; p. 216.
Aerial and other vessel and vehicle. J. F. F. W. Ure. No. 1,021,116; Mar. 26; Sp. p. 4468; Gaz. vol. 176; p. 826.
Aerial and other vessels, Device for use on. A. Horton. No. 1,019,647; Mar. 5; Sp. p. 1412; Gaz. vol. 176; p. 217.
Aerial apparatus. R. Tampier. No. 1,044,945; Nov. 19; Gaz. vol. 184; p. 722.
Aerial-apparatus-propelling mechanism. A. Beurrier. No. 1,048,932; Dec. 31; Gaz. vol. 185; p. 1220.
Aerial-cable hoister and conveyer. J. L. Potter. No. 1,018,360; Feb. 20; Sp. p. 4678; Gaz. vol. 175; p. 804.
Aerial carrier. P. Neis. No. 1,030,423; June 25; Sp. p. 5154; Gaz. vol. 179; p. 917.
Aerial illuminating mechanism. A. J. Austin. No. 1,039,476; Sept. 24; Gaz. vol. 182; p. 867.
Aerial machine. C. I. Matson. No. 1,019,168; Mar. 5; Sp. p. 359; Gaz. vol. 176; p. 57.
Aerial machine. W. E. J. Vavasour. No. 1,032,093; July 9; Gaz. vol. 180; p. 471.
Aerial machine. C. I. Matson. No. 1,036,667; Aug. 27; Gaz. vol. 181; p. 873.
Aerial machine. J. Marshall. No. 1,043,949; Nov. 12; Gaz. vol. 184; p. 349.
Aerial machine. C. Lorenzen. No. 1,044,064; Nov. 12; Gaz. vol. 184; p. 388.
Aerial machine. J. P. Glover. No. 1,044,375; Nov. 12; Gaz. vol. 184; p. 494.
Aerial machines, especially aeroplanes, Automatic safety controlling device for. J. Wetterwald. No. 1,020,671; Mar. 19; Sp p. 3546; Gaz. vol. 176; p. 624.

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Aerial-navigation apparatus. M. Ferrero. No. 1,023,369; Apr. 16; Sp. p. 3452; Gaz. vol. 177; p. 616.
Aerial-navigation apparatus. R. R. and J. Rawle. No. 1,025,306; May 7; Sp. p. 429; Gaz. vol. 178; p. 70.
Aerial navigation, Power-driven machine for. V. F. Carpenter. No. 1,022,302; Apr. 2; Sp. p. 1145; Gaz. vol. 177; p. 184.
Aerial propeller. C. M. Olmsted. No. 1,019,078; Mar. 5; Sp. p. 151; Gaz. vol. 176; p. 28.
Aerial propeller. H. H. Elliott. No. 1,032,050; July 9; Gaz. vol. 180; p. 457.
Aerial propeller. L. T. Bassett. No. 1,046,372; Dec. 3; Gaz. vol. 185; p. 200.
Aerial propeller. H. E. Hawes. No. 1,046,385; Dec. 3; Gaz. vol. 185; p. 204.
Aerial propeller. E. L. Laur and G. Florence. No. 1,046,814; Dec. 10; Gaz. vol. 185; p. 394.
Aerial propellers, Mounting of. R. J. Isaacson. No. 1,027,252; May 21; Sp. p. 4791; Gaz. vol. 178; p. 807.
Aerial track. B. Clausen. No. 1,038,089; Sept. 10; Gaz. vol. 182; p. 339.
Aerial tramway. C. H. Vogel and G. R. Taitt. No. 1,041,916; Oct. 22; Gaz. vol. 183; p. 861.
Aerial trolley. J. W. and E. C. Fawkes. No. 1,028,010; May 28; Sp. p. 6405; Gaz. vol. 178; p. 1099.
Aerial vehicle. C. A. Rex. No. 1,013,219; Jan. 2; Sp. p. 283; Gaz. vol. 174; p. 46.
Aerial vehicle. M. Todisco. No. 1,032,966; July 16; Gaz. vol. 180; p. 811.
Aerial-vehicle stabilizer. L. O. Schopp. No. 1,040,434; Oct. 8; Gaz. vol. 183; p. 286.
Aerial vehicles during a flight, Refilling. H. Erdmann. No. 1,035,560; Aug. 13; Gaz. vol. 181; p. 423.
Aerial vehicles, Indicator for indicating the ascending and descending movements of. L. L. Custer. No. 1,023,132; Apr. 16; Sp. p. 2979; Gaz. vol. 177; p. 536.
Aerial vessel. J. J. Donnelly. No. 1,014,643; Jan. 16; Sp. p. 3461; Gaz. vol. 174; p. 595.
Aerial vessel. H. Moya. No. 1,019,514; Mar. 5; Sp. p. 1168; Gaz. vol. 176; p. 173.
Aerial vessel. G. Düsterloh. No. 1,020,484; Mar. 19; Sp. p. 3122; Gaz. vol. 176; p. 563.
Aerial vessel. C. J. Payne. No. 1,032,699; July 16; Gaz. vol. 180; p. 724.
Aerial vessel. T. E. R. Phillips. No. 1,043,538; Nov. 5; Gaz. vol. 184; p. 177.
Aerial-vessel elevator. A. Horton. No. 1,045,030; Nov. 19; Gaz. vol. 184; p. 752.
Aerial-vessel propeller. J. Bowie. No. 1,036,431; Aug. 20; Gaz. vol. 181; p. 760.
Aerial-vessel-propelling means. C. C. Wieland. No. 1,018,223; Feb. 20; Sp. p. 4416; Gaz. vol. 175; p. 759.
Aero safety device. W. H. Lowry. No. 1,037,943; Sept. 10; Gaz. vol. 182; p. 291.
Aeroboat. J. C. Langille. No. 1,015,568; Jan. 23; Sp. p. 5474; Gaz. vol. 174; p. 937.
Aeroboat. C. J. Lake. No. 1,041,489; Oct. 15; Gaz. vol. 183; p. 679.
Aerocraft. J. J. V. Kaulynskas. No. 1,013,851; Jan. 2; Sp. p. 1681; Gaz. vol. 174; p. 266.
Aerocraft. J. J. V. Kaulynskas. No. 1,017,218; Feb. 13; Sp. p. 2211; Gaz. vol. 175; p. 376.
Aerocraft. L. P. McKeone. No. 1,041,136; Oct. 15; Gaz. vol. 183; p. 561.
Aerocraft-propelling mechanism. M. F. D. de Colombier. No. 1,031,623; July 2; Gaz. vol. 180; p. 268.
Aerodrome. H. H. Ashlock. No. 1,014,031; Jan. 9; Sp. p. 2108; Gaz. vol. 174; p. 354.
Aerodrome. A. J. Helm. No. 1,023,150; Apr. 16; Sp. p. 3019; Gaz. vol. 177; p. 542.
Aerodrome. W. L. Green. No. 1,039,384; Sept. 24; Gaz. vol. 182; p. 835.
Aeromobile. D. L. Mabry. No. 1,046,820; Dec. 10; Gaz. vol. 185; p. 396.
Aeromotor. B. Zobel. No. 1,039,240; Sept. 24; Gaz. vol. 182; p. 785.
Aeroplane. M. Jovanovich. No. 1,013,601; Jan. 2; Sp. p. 1104; Gaz. vol. 174; p. 177.
Aeroplane. S. M. Williams. No. 1,014,194; Jan. 9; Sp. p. 2444; Gaz. vol. 174; p. 410.
Aeroplane. K. Zuggó. No. 1,014,430; Jan. 9; Sp. p. 2978; Gaz. vol. 174; p. 494.
Aeroplane. J. W. Way. No. 1,014,731; Jan. 16; Sp. p. 3655; Gaz. vol. 174; p. 625.
Aeroplane. G. H. Loose. No. 1,015,045; Jan. 16; Sp. p. 4361; Gaz. vol. 174; p. 732.
Aeroplane. H. L., A. E., and H. O. Short. No. 1,015,090; Jan. 16; Sp. p. 4442; Gaz. vol. 174; p. 747.
Aeroplane. A. E. Lycan. No. 1,015,200; Jan. 16; Sp. p. 4647; Gaz. vol. 174; p. 784.
Aeroplane. P. D. Riordan. No. 1,015,711; Jan. 23; Sp. p. 5781; Gaz vol. 174; p. 985.
Aeroplane. J. M. Alleas. No. 1,015,924; Jan. 30; Sp. p. 6226; Gaz. vol. 174; p. 1086.
Aeroplane. A. R. Lassel. No. 1,016,020; Jan. 30; Sp. p. 6433; Gaz. vol. 174; p. 1120.
Aeroplane. F. C. and F. S. Carpenter. No. 1,016,609; Feb. 6; Sp. p. 875; Gaz. vol. 175; p. 130.
Aeroplane. D. Black. No. 1,016,929; Feb. 13; Sp. p. 1541; Gaz. vol. 175; p. 274.
Aeroplane. E. C. F. W. Bliesath. No. 1,017,733; Feb. 20; Sp. p. 3269; Gaz. vol. 175; p. 586.
Aeroplane. O. Helsing. No. 1,018,190; Feb. 20; Sp. p. 4356; Gaz. vol. 175; p. 747.
Aeroplane. W. J. H. Beach. No. 1,018,474; Feb. 27; Sp. p. 4952; Gaz. vol. 175; p. 875.
Aeroplane. C. L. Moore. No. 1,019,987; Mar. 12; Sp. p. 2092; Gaz. vol. 176; p. 361.
Aeroplane. H. O. Eiane. No. 1,021,040; Mar. 26; Sp. p. 4321; Gaz. vol. 176; p. 802.
Aeroplane. W. A. Brewer. No. 1,021,129; Mar. 26; Sp. p. 4501; Gaz. vol. 176; p. 830.
Aeroplane. F. Biberstein. No. 1,021,178; Mar. 26; Sp. p. 4614; Gaz. vol. 176; p. 847.
Aeroplane. B. W. Blewett. No. 1,021,299; Mar. 26; Sp. p. 4866; Gaz. vol. 176; p. 889.
Aeroplane. H. Farrell. No. 1,021,830; Apr. 2; Sp. p. 179; Gaz. vol. 177; p. 29.
Aeroplane. J. W. Way. (Reissue.) No. 13,397; Apr. 2; Sp. p. 1340; Gaz. vol. 177; p. 218.
Aeroplane. A. E. Beaudett. No. 1,023,000; Apr. 9; Sp. p. 2657; Gaz. vol. 177; p. 453.
Aeroplane. G. N. Spencer. No. 1,023,534; Apr. 16; Sp. p. 3778; Gaz. vol. 177; p. 668.
Aeroplane. R. Esnault-Pelterie. No. 1,024,928; Apr. 30; Sp. p. 6862; Gaz. vol. 177; p. 1206.
Aeroplane. R. Esnault-Pelterie. No. 1,024,929; Apr. 30; Sp. p. 6864; Gaz. vol. 177; p. 1206.
Aeroplane. F. C. Lambert. No. 1,024,941; Apr. 30; Sp. p. 6888; Gaz. vol. 177; p. 1210.
Aeroplane. Z. Tisher. No. 1,025,033; Apr. 30; Sp. p. 7058; Gaz. vol. 177; p. 1241.
Aeroplane. J. Hübschman. No. 1,025,063; Apr. 30; Sp. p. 7111; Gaz. vol. 177; p. 1250.
Aeroplane. R. Arnoux. No. 1,025,941; May 7; Sp. p. 1858; Gaz. vol. 178; p. 286.
Aeroplane. V. Breuer. No. 1,026,490; May 14; Sp. p. 3086; Gaz. vol. 178; p. 509.
Aeroplane. T. H., R. F., and J. E. Keppel, Jr. No. 1,026,677; May 21; Sp. p. 3488; Gaz. vol. 178; p. 609.
Aeroplane. J. W. Silver. No. 1,027,572; May 28; Sp. p. 5455; Gaz. vol. 178; p. 954.
Aeroplane. J. A. Williams. No. 1,027,954; May 28; Sp. p. 6284; Gaz. vol. 178; p. 1080.
Aeroplane. W. B. Shepard. No. 1,028,143; June 4; Sp. p. 138; Gaz. vol. 179; p. 21.
Aeroplane. C. B. Westerman. No. 1,028,409; June 4; Sp. p. 762; Gaz. vol. 179; p. 115.
Aeroplane. H. J. Kraft. No. 1,028,887; June 11; Sp. p. 1776; Gaz. vol. 179; p. 310.
Aeroplane. L. R. Rooney. No. 1,028,968; June 11; Sp. p. 1953; Gaz. vol. 179; p. 337.
Aeroplane. J. R. Hendrickson. No. 1,029,754; June 18; Sp. p. 3663; Gaz. vol. 179; p. 646.
Aeroplane. H. Laprise. No. 1,030,312; June 25; Sp. p. 4912; Gaz. vol. 179; p. 877.
Aeroplane. J. R. Machado. No. 1,030,518; June 25; Sp. p. 5405; Gaz. vol. 179; p. 951.
Aeroplane. J. T. Rydberg. No. 1,030,542; June 25; Sp. p. 5459; Gaz. vol. 179; p. 959.
Aeroplane. L. F. Bancroft. No. 1,030,764; June 25; Sp. p. 6118; Gaz. vol. 179; p. 1039.
Aeroplane. D. R. Davis. No. 1,030,772; June 25; Sp. p. 6142; Gaz. vol. 179; p. 1042.
Aeroplane. J. C. Telfer. No. 1,030,942; July 2; Gaz. vol. 180; p. 31.
Aeroplane. J. M. Janesone. No. 1,031,797; July 9; Gaz. vol. 180; p. 371.
Aeroplane. S. M. Brown. No. 1,032,587; July 16; Gaz. vol. 180; p. 683.
Aeroplane. G. Staib. No. 1,033,287; July 23; Gaz. vol. 180; p. 960.
Aeroplane. V. H. Latendorf. No. 1,034,257; July 30; Gaz. vol. 180; p. 1315.
Aeroplane. M. H. Webster. No. 1,034,544; Aug. 6; Gaz. vol. 181; p. 48.
Aeroplane. M. J. Zmujdzinowicz. No. 1,034,556; Aug. 6; Gaz. vol. 181; p. 52.
Aeroplane. G. F. Mentz. No. 1,034,638; Aug. 6; Gaz. vol. 181; p. 78.
Aeroplane. P. D. Smith. No. 1,034,655; Aug. 6; Gaz. vol. 181; p. 83.
Aeroplane. H. J. List. No. 1,034,718; Aug. 6; Gaz. vol. 181; p. 106.
Aeroplane. G. Rasmussen. No. 1,035,103; Aug. 6; Gaz. vol. 181; p. 234.
Aeroplane. D. G. Terzian. No. 1,035,660; Aug. 13; Gaz. vol. 181; p. 456.
Aeroplane. C. A. B. P. Hawkins and B. Ogilvie. No. 1,035,701; Aug. 13; Gaz. vol. 181; p. 469.
Aeroplane. G. H. Kellogg. No. 1,035,794; Aug. 13; Gaz. vol. 181; p. 500.
Aeroplane. J. R. Martin. No. 1,037,278; Sept. 3; Gaz. vol. 182; p. 34.
Aeroplane. J. H. S. Bartholomew and E. F. Heath. No. 1,037,411; Sept. 3; Gaz. vol. 182; p. 79.
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Aeroplane. A. Feall. No. 1,037,749; Sept. 3; Gaz. vol. 182; p. 191.
Aeroplane. E. S. Bennett. No. 1,037,853; Sept. 10; Gaz. vol. 182; p. 258.
Aeroplane. D. A. Davison. No. 1,038,306; Sept. 10; Gaz. vol. 182; p. 412.
Aeroplane. B. J. Pressey. No. 1,038,435; Sept. 10; Gaz. vol. 182; p. 457.
Aeroplane. G. H. Feller. No. 1,039,716; Oct. 1; Gaz. vol. 183; p. 16.
Aeroplane. R. Esnault-Pelterie. No. 1,040,533; Oct. 8; Gaz. vol. 183; p. 321.
Aeroplane. A. Seaver. No. 1,040,785; Oct. 8; Gaz. vol. 183; p. 410.
Aeroplane. M. Gasogne. No. 1,041,630; Oct. 15; Gaz. vol. 183; p. 723.
Aeroplane. E. J. Elsas. No. 1,041,759; Oct. 22; Gaz. vol. 183; p. 805.
Aeroplane. J. E. Bissell. No. 1,042,758; Oct. 29; Gaz. vol. 183; p. 1175.
Aeroplane. A. Goebel. No. 1,043,222; Nov. 5; Gaz. vol. 184; p. 64.
Aeroplane. A. A. Shillcutt. No. 1,043,473; Nov. 5; Gaz. vol. 184; p. 153.
Aeroplane. H. O. Eiane. No. 1,044,635; Nov. 19; Gaz. vol. 184; p. 614.
Aeroplane. L. Dan. No. 1,044,997; Nov. 19; Gaz. vol. 184; p. 741.
Aeroplane. A. Johnston. No. 1,045,035; Nov. 19; Gaz. vol. 184; p. 754.
Aeroplane. T. C. Starr. No. 1,045,209; Nov. 26; Gaz. vol. 184; p. 843.
Aeroplane. L. Blériot. No. 1,045,666; Nov. 26; Gaz. vol. 184; p. 1006.
Aeroplane. L. Schmidl. No. 1,046,028; Dec. 3; Gaz. vol. 185; p. 78.
Aeroplane. J. Smith. No. 1,047,581; Dec. 17; Gaz. vol. 185; p. 692.
Aeroplane. W. C. Durgan. No. 1,048,509; Dec. 31; Gaz. vol. 185; p. 1074.
Aeroplane. B. T. B. Hyde. No. 1,048,835; Dec. 31; Gaz. vol. 185; p. 1187.
Aeroplane. E. Marek. No. 1,049,117; Dec. 31; Gaz. vol. 185; p. 1284.
Aeroplane amusement apparatus. E. S. Smith. No. 1,034,654; Aug. 6; Gaz. vol. 181; p. 83.
Aeroplane and dirigible balloon, Combined. W. E. Zells. No. 1,019,579; Mar. 5; Sp. p. 1283; Gaz. vol. 176; p. 192.
Aeroplane attachment. O. L. Pickard. No. 1,017,998; Feb. 20; Sp. p. 3930; Gaz. vol. 175; p. 680.
Aeroplane attachment. J. R. Froberg. No. 1,044,161; Nov. 12; Gaz. vol. 184; p. 420.
Aeroplane, Automatic-balancing. R. McMullen. No. 1,037,651; Sept. 3; Gaz. vol. 182; p. 159.
Aeroplane, Automatically-balancing. M. Mathiesen. No. 1,026,219; May 14; Sp. p. 2502; Gaz. vol. 178; p. 419.
Aeroplane, Balancing. G. Indorante. No. 1,047,641; Dec. 17; Gaz. vol. 185; p. 712.
Aeroplane balancing and controlling means. J. J. Lauer. No. 1,033,710; July 23; Gaz. vol. 180; p. 1098.
Aeroplane-balancing mechanism. J. Canty. No. 1,042,082; Oct. 22; Gaz. vol. 183; p. 915.
Aeroplane control. W. A. Bartholomew. No. 1,048,386; Dec. 24; Gaz. vol. 185; p. 993.
Aeroplane - controlling device. R. C. Brandt. No. 1,020,342; Mar. 12; Sp. p. 2817; Gaz. vol. 176; p. 478.
Aeroplane - engine - controlling mechanism. H. L. Willoughby. No. 1,024,303; Apr. 23; Sp. p. 5446; Gaz. vol. 177; p. 954.
Aeroplane-equilibrator, Automatic. J. C. Ten Eyck. No. 1,025,548; May 7; Sp. p. 993; Gaz. vol. 178; p. 154.
Aeroplane flying-machine. C. E. Winterros. No. 1,039,345; Sept. 24; Gaz. vol. 182; p. 821.
Aeroplane flying-machine. P. Levins. No. 1,043,781; Nov. 5; Gaz. vol. 184; p. 258.
Aeroplane, flying-machine, and the like. G. P. B. Smith. No. 1,039,456; Sept. 24; Gaz. vol. 182; p. 860.
Aeroplane landing and launching platform. B. C. Riblet. No. 1,044,914; Nov. 19; Gaz. vol. 184; p. 712.
Aeroplane or flying - machine. J. J. Bourcart. No. 1,019,418; Mar. 5; Sp. p. 964; Gaz. vol. 176; p. 140.
Aeroplane or the like or analogous machine or device. A. H. Edwards. No. 1,023,556; Apr. 16; Sp. p. 3827; Gaz. vol. 177; p. 675.
Aeroplane-plane. F. G. Donner. No. 1,038,317; Sept. 10; Gaz. vol. 182; p. 415.
Aeroplane propeller-blade. J. W. Baker. No. 1,032,729; July 16; Gaz. vol. 180; p. 734.
Aeroplane propelling and lifting device. P. Gilbert. No. 1,045,388; Nov. 26; Gaz. vol. 184; p. 904.
Aeroplane propelling-wheel. N. C. Sorensen. No. 1,032,162; July 9; Gaz. vol. 180; p. 494.
Aeroplane-roundabout. J. D. Walsh. No. 1,023,897; Apr. 23; Sp. p. 4560; Gaz. vol. 177; p. 813.
Aeroplane safety device. W. Lewis. No. 1,024,407; Apr. 23; Sp. p. 5669; Gaz. vol. 177; p. 987.
Aeroplane safety device. J. Kenefick. No. 1,025,629; May 7; Sp. p. 1174; Gaz. vol. 178; p. 181.
Aeroplane sighting device. F. L. Slack. No. 1,028,502; June 4; Sp. p. 970; Gaz. vol. 179; p. 146.
Aeroplane-stabilizing apparatus, Automatic. G. U. Muller. No. 1,032,852; July 16; Gaz. vol. 180; p. 775.
Aeroplane suspension-railway. P. H. Pages. No. 1,037,973; Sept. 10; Gaz. vol. 182; p. 302.
Aeroplanes and the like, Automatically-stabilized supporting-plane for. P. O. Detable. No. 1,024,315; Apr. 23; Sp. p. 5467; Gaz. vol. 177; p. 958.
Aeroplanes, Automatic balancing mechanism for. J. S. Vogt. No. 1,039,228; Sept. 24; Gaz. vol. 182; p. 780.
Aeroplanes, Automatic stabilizer for. E. Yeamans. No. 1,040,089; Oct. 1; Gaz. vol. 183; p. 140.
Aeroplanes, &c., Automatic stabilizer for. P. L. A. Regnard. No. 1,015,837; Jan. 30; Sp. p. 6042; Gaz. vol. 174; p. 1055.
Aeroplanes, Electrically-operated balancing mechanism for. R. L. Monroe. No. 1,047,827; Dec. 17; Gaz. vol. 185; p. 777.
Aeroplanes, Equilibrium attachment for. A. R. Monro and H. Beatty. No. 1,014,082; Jan. 9; Sp. p. 2219; Gaz. vol. 174; p. 372.
Aeroplanes, Means for maintaining the lateral equilibrium of. T. R. da Paz and A. M. C. de Faria e Maya. No. 1,047,759; Dec. 17; Gaz. vol. 185; p. 755.
Aeroplanes on moving warships, Device for facilitating the alighting of. F. Filiasi. No. 1,034,700; Aug. 6; Gaz. vol. 181; p. 99.
Aeroplanes, Stabilizing. E. Bourdelles. No. 1,030,968; July 2; Gaz. vol. 180; p. 41.
Aeroplanes, Stabilizing means for. T. L. White. No. 1,018,400; Feb. 20; Sp. p. 4785; Gaz. vol. 175; p. 819.
Aerostat. J. R. Gammeter. No. 1,047,038; Dec. 10; Gaz. vol. 185; p. 467.
Aerostatics. R. C. Sayer. No. 1,019,368; Mar. 5; Sp. p. 842; Gaz. vol. 176; p. 125.
Aerostructural balance. F. E. Whitlatch. No. 1,030,363; June 25; Sp. p. 5023; Gaz. vol. 179; p. 896.
Agglomerating materials. P. Class. No. 1,034,203; July 30; Gaz. vol. 180; p. 1295.
Agglomerating process. A. Folliet. No. 1,029,182; June 11; Sp. p. 2407; Gaz. vol. 179; p. 410.
Agitating and grinding mechanism. E. B. Goodwin. No. 1,014,871; Jan. 16; Sp. p. 3982; Gaz. vol. 174; p. 673.
Agitator implement. F. J. Osius. No. 1,047,279; Dec. 17; Gaz. vol. 185; p. 584.
Agricultural implement. C. Christensen. No. 1,018,351; Feb. 20; Sp. p. 4657; Gaz. vol. 175; p. 800.
Agricultural implement. C. Margeson. No. 1,019,330; Mar. 5; Sp. p. 729; Gaz. vol. 176; p. 113.
Agricultural implement. A. Schloemer. No. 1,019,370; Mar. 5; Sp. p. 846; Gaz. vol. 176; p. 126.
Agricultural implement. G. T. Bounds. No. 1,026,731; May 21; Sp. p. 3614; Gaz. vol. 178; p. 628.
Agricultural implement. A. E. Merritt. No. 1,034,481; Aug. 6; Gaz. vol. 181; p. 26.
Agricultural implement. W. H. Rice. No. 1,034,734; Aug. 6; Gaz. vol. 181; p. 111.
Agricultural implement. W. W. Johnson. No. 1,037,178; Aug. 27; Gaz. vol. 181; p. 1043.
Agricultural implement. G. B. Garrison. No. 1,039,269; Sept. 24; Gaz. vol. 182; p. 795.
Agricultural implement. J. L. Head. No. 1,041,077; Oct. 15; Gaz. vol. 183; p. 541.
Agricultural implement. B. W. Bennett. No. 1,047,607; Dec. 17; Gaz. vol. 185; p. 701.
Agricultural implement. O. W. Peterson. No. 1,048,340; Dec. 24; Gaz. vol. 185; p. 977.
Agricultural implements and the like, Tractor for. M. J. Bushong. No. 1,048,940; Dec. 31; Gaz. vol. 185; p. 1223.
Agricultural implements, Fore carriage for. W. E. Johnson. No. 1,018,390; Feb. 20; Sp. p. 4762; Gaz. vol. 175; p. 815.
Agricultural implements or the like, Safety attachment for. F. C. Warne. No. 1,018,461; Feb. 27; Sp. p. 4927; Gaz. vol. 175; p. 871.
Agricultural machine. A. Balbo-Bertone. No. 1,046,940; Dec. 10; Gaz. vol. 185; p. 436.
Agricultural machine. G. H. and J. C. Webber. No. 1,048,246; Dec. 24; Gaz. vol. 185; p. 944.
Agricultural system, Electrical. C. S. Doney. No. 1,044,751; Nov. 19; Gaz. vol. 184; p. 656.
Agricultural tractors, Attachment to. J. F. Steward. No. 1,045,338; Nov. 26; Gaz. vol. 184; p. 887.
Air and gas burner. J. T. Fagan. No. 1,031,842; July 9; Gaz. vol. 180; p. 387.
Air and gas compressor. C. W. Miles. No. 1,029,309; June 11; Sp. p. 2682; Gaz. vol. 179; p. 455.
Air and gas engine. L. Kessler. No. 1,042,560; Oct. 29; Gaz. vol. 183; p. 1105.
Air and other fluids, Apparatus for compressing. W. B. Swindell. No. 1,020,852; Mar. 19; Sp. p. 3945; Gaz. vol. 176; p. 687.
Air and other fluids, Apparatus for compressing. E. Birawer. No. 1,037,586; Sept. 3; Gaz. vol. 182; p. 138.
Air and separating it into its elements, Liquefying. E. Jänecke. No. 1,015,800; Jan. 30; Sp. p. 5964; Gaz. vol. 174; p. 1043.

Alphabetical list of inventions—Continued.

Air and sulfur dioxid, Apparatus for preparing a mixture of. R. Marot. No. 1,024,798; Apr. 30; Sp. p. 6596; Gaz. vol. 177; p. 1160.
Air, Apparatus for determining the amount of carbon dioxid in the. L. E. Knott. No. 1,040,356; Oct. 8; Gaz. vol. 183; p. 260.
Air, Apparatus for removing moisture from. J. B. Miles. No. 1,041,323; Oct. 15; Gaz. vol. 183; p. 625.
Air attachment, Auxiliary. H. A. Miller. No. 1,036,302; Aug. 20; Gaz. vol. 181; p. 715.
Air-blast heater. E. Hohmann. No. 1,038,887; Sept. 17; Gaz. vol. 182; p. 648.
Air-brake. W. E. Mead. No. 1,017,011; Feb. 13; Sp. p. 1734; Gaz. vol. 175; p. 302.
Air-brake. J. B. Gardner. No. 1,025,801; May 7; Sp. p. 1518; Gaz. vol. 178; p. 240.
Air-brake. G. W. Hohn and E. G. Reisinger. No. 1,029,368; June 11; Sp. p. 2834; Gaz. vol. 179; p. 476.
Air-brake. F. Goff. No. 1,042,666; Oct. 29; Gaz. vol. 183; p. 1144.
Air-brake apparatus. B. J. Minnier. No. 1,017,787; Feb. 20; Sp. p. 3444; Gaz. vol. 175; p. 606.
Air-brake apparatus. O. Johnson. No. 1,041,091; Oct. 15; Gaz. vol. 183; p. 546.
Air-brake appliance. W. A. Skinner and T. F. Cain. No. 1,045,448; Nov. 26; Gaz. vol. 184; p. 926.
Air brake attachment for automatic systems, Straight-. W. R. Chandler. No. 1,042,083; Oct. 22; Gaz. vol. 183; p. 916.
Air-brake, Automatic electric. E. H. Dewson and W. V. Turner. No. 1,048,507; Dec. 31; Gaz. vol. 185; p. 1073.
Air-brake automatic valve device. M. Corrington. No. 1,037,443; Sept. 3; Gaz. vol. 182; p. 90.
Air-brake coupling. O. P. Wilhelm. No. 1,041,391; Oct. 15; Gaz. vol. 183; p. 646.
Air-brake coupling, Automatic. R. J. Mitchell. No. 1,017,442; Feb. 13; Sp. p. 2679; Gaz. vol. 175; p. 455.
Air-brake coupling, Automatic. E. Bixler. No. 1,031,617; July 2; Gaz. vol. 180; p. 266.
Air-brake, Derailment. E. N. Botsford. No. 1,019,751; Mar. 12; Sp. p. 1618; Gaz. vol. 176; p. 282.
Air-brake-hose coupling. O. P. Wilhelm. No. 1,022,453; Apr. 9; Sp. p. 1486; Gaz. vol. 177; p. 266.
Air-brake-maintaining device. M. Corrington. No. 1,037,444; Sept. 3; Gaz. vol. 182; p. 91.
Air-brake mechanism for logging-trains. G. H. Libby and H. L. Turney. No. 1,040,222; Oct. 1; Gaz. vol. 183; p. 184.
Air-brake system. F. E. Patton. No. 1,025,298; May 7; Sp. p. 411; Gaz. vol. 178; p. 67.
Air-brake systems, Valve-controlling mechanism for train. P. T. Strader. No. 1,029,477; June 11; Sp. p. 3061; Gaz. vol. 179; p. 513.
Air-brake valve. J. Chudleigh and J. W. Fell. No. 1,043,803; Nov. 12; Gaz. vol. 184; p. 297.
Air-brake-valve handle, Railway-car. F. R. L. Stott and T. Crossen. No. 1,035,490; Aug. 13; Gaz. vol. 181; p. 399.
Air-brakes, Electric control mechanism for. H. Rowntree. No. 1,014,852; Jan. 16; Sp. p. 3936; Gaz. vol. 174; p. 667.
Air-brakes, Emergency operating device for. G. L. Collins. No. 1,045,260; Nov. 26; Gaz. vol. 184; p. 860.
Air-brakes, Inertia-governor for. H. H. Westinghouse. No. 1,018,596; Feb. 27; Sp. p. 5288; Gaz. vol. 175; p. 918.
Air-car or airship. W. Friese-Greene. No. 1,031,705; July 9; Gaz. vol. 180; p. 340.
Air-compressor. W. N. Dennison. No. 1,023,820; Apr. 23; Sp. p. 4361; Gaz. vol. 177; p. 788.
Air-compressor. W. R. Thompson. No. 1,026,132; May 14; Sp. p. 2304; Gaz. vol. 178; p. 389.
Air-compressor. A. H. Marcou. No. 1,026,521; May 14; Sp. p. 3153; Gaz. vol. 178; p. 520.
Air-compressor. C. P. Augustine. No. 1,035,139; Aug. 13; Gaz. vol. 181; p. 275.
Air-compressor. M. Mintz. No. 1,035,804; Aug. 13; Gaz. vol. 181; p. 504.
Air-compressor. V. J. Diefenderfer. No. 1,037,455; Sept. 3; Gaz. vol. 182; p. 95.
Air-compressor. W. Selakosky. No. 1,044,583; Nov. 19; Gaz. vol. 184; p. 597.
Air compressor and pump. G. P. Aborn. No. 1,041,939; Oct. 22; Gaz. vol. 183; p. 869.
Air-compressor and shock-absorber, Combined. J. D. Jackson. No. 1,038,374; Sept. 10; Gaz. vol. 182; p. 434.
Air-compressor, Compound. A. England. No. 1,034,602; Aug. 6; Gaz. vol. 181; p. 66.
Air-compressor, Duplex. S. K. Steffy and H. H. Naylor. No. 1,041,693; Oct. 15; Gaz. vol. 183; p. 746.
Air-compressor governor. R. H. Rice. No. 1,021,214; Mar. 26; Sp. p. 4682; Gaz. vol. 176; p. 858.
Air compressor or pump, Hydraulic. O. H. Mueller. No. 1,031,143; July 2; Gaz. vol. 180; p. 105.
Air-compressor, Rotary. J. R. Mason. No. 1,021,320; Mar. 26; Sp. p. 4905; Gaz. vol. 176; p. 897.
Air-compressors, Fusible plug for. C. B. Hodges and T. McCaffrey. No. 1,036,621; Aug. 27; Gaz. vol. 181; p. 858.
Air-conditioning device. A. A. Blomfeldt. No. 1,013,368; Jan. 2; Sp. p. 609; Gaz. vol. 174; p. 97.
Air cooler and purifier. C. Jost. No. 1,016,157; Jan. 30; Sp. p. 6712; Gaz. vol. 174; p. 1166.
Air-cooling apparatus. F. Frank. No. 1,020,034; Mar. 12; Sp. p. 2191; Gaz. vol. 176; p. 377.
Air-cooling apparatus for fruit. W. C. Anderson. No. 1,024,763; Apr. 30; Sp. p. 6514; Gaz. vol. 177; p. 1147.
Air-coupling, Automatic. J. Brant. No. 1,027,314; May 21; Sp. p. 4917; Gaz. vol. 178; p. 827.
Air-coupling, Automatic. J. C. Wright. No. 1,048,120; Dec. 24; Gaz. vol. 185; p. 904.
Air-craft. J. W. Wolfe. No. 1,014,276; Jan. 9; Sp. p. 2632; Gaz. vol. 174; p. 439.
Air-craft. J. B. Laingor and G. J. Yerger. No. 1,021,105; Mar. 26; Sp. p. 4444; Gaz. vol. 176; p. 823.
Air-craft. F. Brackett. No. 1,039,092; Sept. 24; Gaz. vol. 182; p. 732.
Air-craft. F. Brackett. No. 1,039,251; Sept. 24; Gaz. vol. 182; p. 789.
Air-craft. C. Spilka. No. 1,045,337; Nov. 26; Gaz. vol. 184; p. 887.
Air-craft propeller. J. Koiw. No. 1,040,695; Oct. 8; Gaz. vol. 183; p. 382.
Air-craft, Safety appliance for. O. Gaul. No. 1,049,075; Dec. 31; Gaz. vol. 185; p. 1269.
Air-craft safety device. J. Kratofill. No. 1,039,295; Sept. 24; Gaz. vol. 182; p. 804.
Air-current-actuated alarm, Automatic. L. Robillot. No. 1,025,310; May 7; Sp. p. 453; Gaz. vol. 178; p. 71.
Air-deflector. S. S. Russell. No. 1,014,523; Jan. 9; Sp. p. 3146; Gaz. vol. 174; p. 523.
Air-deflector. H. C. Dunlavy. No. 1,037,138; Aug. 27; Gaz. vol. 181; p. 1029.
Air-douche. A. Schaeffer. No. 1,040,773; Oct. 8; Gaz. vol. 183; p. 406.
Air-drying apparatus. A. Gaide. No. 1,024,887; Apr. 30; Sp. p. 6767; Gaz. vol. 177; p. 1191.
Air-drying apparatus for metallurgical purposes. B. Walter. No. 1,035,281; Aug. 13; Gaz. vol. 181; p. 325.
Air-ejector, Hydraulic. E. E. Cleveland. No. 1,027,321; May 21; Sp. p. 4937; Gaz. vol. 178; p. 830.
Air-flushing apparatus. A. Priestman. No. 1,048,206; Dec. 24; Gaz. vol. 185; p. 932.
Air-gage. J. A. Buttress. No. 1,021,915; Apr. 2; Sp. p. 343; Gaz. vol. 177; p. 57.
Air-gage. J. A. Buttress. No. 1,027,461; May 28; Sp. p. 5221; Gaz. vol. 178; p. 915.
Air, gas, or vapor, Hydraulic apparatus for exhausting or extracting. W. J. Frame. No. 1,019,241; Mar. 5; Sp. p. 518; Gaz. vol. 176; p. 82.
Air-heater. A. Schlueter. No. 1,028,064; May 28; Sp. p. 6521; Gaz. vol. 178; p. 1115.
Air-heating apparatus. A. E. Jones. No. 1,028,073; May 28; Sp. p. 6552; Gaz. vol. 178; p. 1118.
Air-heating apparatus, Compressed-. S. A. Reeve. No. 1,014,350; Jan. 9; Sp. p. 2756; Gaz. vol. 174; p. 458.
Air-jack, Sectional cylinder. C. H. Cole. No. 1,031,528; July 2; Gaz. vol. 180; p. 236.
Air-lift. J. P. Simmons. No. 1,033,278; July 23; Gaz. vol. 180; p. 957.
Air-lift. F. J. Kimball. No. 1,039,958; Oct. 1; Gaz. vol. 183; p. 95.
Air-lift, Automatic chemical. A. Long. No. 1,045,157; Nov. 26; Gaz. vol. 184; p. 824.
Air machine, Cold-. J. Clontz and A. Bretz. No. 1,037,728; Sept. 3; Gaz. vol. 182; p. 185.
Air-machine, Safety balanced. G. M. Absalom. No. 1,045,657; Nov. 26; Gaz. vol. 184; p. 1002.
Air-moistening device, Automatic. W. A. Russell. No. 1,019,843; Mar. 12; Sp. p. 1782; Gaz. vol. 176; p. 312.
Air-moistening device for heating apparatus. W. A. Russell. No. 1,019,842; Mar. 12; Sp. p. 1777; Gaz. vol. 176; p. 312.
Air, Moisture-supplying device for carbureted. O. Duis. No. 1,043,080; Nov. 5; Gaz. vol. 184; p. 11.
Air-motor. I. L. Grinnell. No. 1,019,459; Mar. 5; Sp. p. 1049; Gaz. vol. 176; p. 154.
Air-motor. W. Creely. No. 1,044,995; Nov. 19; Gaz. vol. 184; p. 740.
Air-motor gear. C. J. Zirbel. No. 1,015,921; Jan. 30; Sp. p. 6221; Gaz. vol. 174; p. 1084.
Air-navigating machine. E. Molnar. No. 1,031,807; July 9; Gaz. vol. 180; p. 375.
Air or gas compressor. O. H. Castle. No. 1,036,797; Aug. 27; Gaz. vol. 181; p. 915.
Air or other gases, Apparatus for testing. M. Arndt. No. 1,044,969; Nov. 19; Gaz. vol. 184; p. 730.
Air or steam joint, Flexible. E. J. Corbett. No. 1,027,694; May 28; Sp. p. 5700; Gaz. vol. 178; p. 993.
Air or water craft, Propeller for. A. Finch. No. 1,029,057; June 11; Sp. p. 2142; Gaz. vol. 179; p. 369.
Air-propeller. J. H. Buchanan. No. 1,023,065; Apr. 9; Sp. p. 2793; Gaz. vol. 177; p. 475.
Air purifying and humidifying apparatus. G. C. Derby. No. 1,047,765; Dec. 17; Gaz. vol. 185; p. 756.
Air-purifying apparatus. W. G. R. Braemer. No. 1,037,424; Sept. 3; Gaz. vol. 182; p. 84.
Air-purifying apparatus. W. G. R. Breamer. No. 1,040,499; Oct. 8; Gaz. vol. 183; p. 308.
Air-regenerating apparatus. G. von. Schapringer. No. 1,022,602; Apr. 9; Sp. p. 1795; Gaz. vol. 177; p. 315.

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Air-retainer, Automatic. L. L. Brown and J. F. Smith. No. 1,040,873; Oct. 8; Gaz. vol. 183; p. 437.
Air-supply device for firemen. J. D. Halloran. No. 1,040,311; Oct. 8; Gaz. vol. 183; p. 246.
Air-tempering device. F. P. Mies. No. 1,027,141; May 21; Sp. p. 4580; Gaz. vol. 178; p. 770.
Air-testing apparatus. W. S. Leech. No. 1,022,955; Apr. 9; Sp. p. 2576; Gaz. vol. 177; p. 437.
Air-testing apparatus. R. H. Davis. No. 1,027,823; May 28; Sp. p. 5970; Gaz. vol. 178; p. 1036.
Air-testing apparatus. W. H. Flood. No. 1,035,337; Aug. 13; Gaz. vol. 181; p. 346.
Air-treating apparatus. D. M. Luehrs and W. S. Conant. No. 1,023,260; Apr. 16; Sp. p. 3246; Gaz. vol. 177; p. 580.
Air-treating apparatus. W. H. Winks. No. 1,042,864; Oct. 29; Gaz. vol. 183; p. 1212.
Air-tube heater. B. S. Harrison. No. 1,032,601; July 16; Gaz. vol. 180; p. 688.
Air under pressure, Apparatus for compressing and distributing. M. C. Wilkinson. No. 1,017,835; Feb. 20; Sp. p. 3540; Gaz. vol. 175; p. 622.
Air-washer. M. S. King. No. 1,035,603; Aug. 13; Gaz. vol. 181; p. 437.
Air-withdrawing or vacuum-producing apparatus, Portable. A. M. Jack. No. 1,016,830; Feb. 6; Sp. p. 1324; Gaz. vol. 175; p. 204.
Airship. F. G. Vohs. No. 1,013,523; Jan. 2; Sp. p. 945; Gaz. vol. 174; p. 151.
Airship. C. A. Long. No. 1,014,763; Jan. 16; Sp. p. 3723; Gaz. vol. 174; p. 634.
Airship. K. L. W. Geest. No. 1,015,674; Jan. 23; Sp. p. 5694; Gaz. vol. 174; p. 973.
Airship. J. R. Porter. No. 1,016,359; Feb. 6; Sp. p. 270; Gaz. vol. 175; p. 42.
Airship. L. C. Badeau. No. 1,020,015; Mar. 12; Sp. p. 2149; Gaz. vol. 176; p. 370.
Airship. C. H. Toliver. No. 1,020,118; Mar. 12; Sp. p. 2372; Gaz. vol. 176; p. 405.
Airship. I. Allen. No. 1,020,870; Mar. 19; Sp. p. 3977; Gaz. vol. 176; p. 693.
Airship. L. A. Fish. No. 1,021,139; Mar. 26; Sp. p. 4523; Gaz. vol. 176; p. 833.
Airship. C. A. Rush. No. 1,021,338; Mar. 26; Sp. p. 4948; Gaz. vol. 176; p. 904.
Airship. V. C. de Ybarrondo. No. 1,022,117; Apr. 2; Sp. p. 772; Gaz. vol. 177; p. 123.
Airship. S. P. Watt. No. 1,022,715; Apr. 9; Sp. p. 2076; Gaz. vol. 177; p. 357.
Airship. H. Faehrmann. No. 1,023,367; Apr. 16; Sp. p. 3449; Gaz. vol. 177; p. 616.
Airship. B. Sitzenstok. No. 1,023,484; Apr. 16; Sp. p. 3686; Gaz. vol. 177; p. 653.
Airship. D. M. MacLeod. No. 1,023,667; Apr. 16; Sp. p. 4049; Gaz. vol. 177; p. 710.
Airship. R. Anders. No. 1,025,106; Apr. 30; Sp. p. 7216; Gaz. vol. 177; p. 1264.
Airship. J. E. Sheriff. No. 1,025,210; May 7; Sp. p. 221; Gaz. vol. 178; p. 37.
Airship. J. T. Long. No. 1,026,959; May 21; Sp. p. 4154; Gaz. vol. 178; p. 708.
Airship. B. C. Cole. No. 1,027,990; May 28; Sp. p. 6365; Gaz. vol. 178; p. 1093.
Airship. W. D. Le Fevre. No. 1,028,891; June 11; Sp. p. 1782; Gaz. vol. 179; p. 311.
Airship. J. F. W. Bradshaw. No. 1,029,529; June 11; Sp. p. 3156; Gaz. vol. 179; p. 529.
Airship. A. Mayer. No. 1,030,826; June 25; Sp. p. 6365; Gaz. vol. 179; p. 1063.
Airship. J. W. Batdorf. No. 1,031,230; July 2; Gaz. vol. 180; p. 134.
Airship. J. P. Olsen, Jr. No. 1,031,461; July 2; Gaz. vol. 180; p. 214.
Airship. J. N. Thompson. No. 1,031,597; July 2; Gaz. vol. 180; p. 259.
Airship. B. M. Beskow. No. 1,031,904; July 9; Gaz. vol. 180; p. 408.
Airship. A. Merckens. No. 1,033,186; July 23; Gaz. vol. 180; p. 925.
Airship. C. Ehlers. No. 1,033,234; July 23; Gaz. vol. 180; p. 943.
Airship. R. R. Zell. No. 1,033,510; July 23; Gaz. vol. 180; p. 1033.
Airship. H. L. Twining. No. 1,036,033; Aug. 20; Gaz. vol. 181; p. 619.
Airship. J. G. Bauer. No. 1,036,780; Aug. 27; Gaz. vol. 181; p. 910.
Airship. J. G. Bauer. No. 1,036,781; Aug. 27; Gaz. vol. 181; p. 910.
Airship. J. A. Conterio. No. 1,036,964; Aug. 27; Gaz. vol. 181; p. 970.
Airship. J. G. E. Danielson. No. 1,037,136; Aug. 27; Gaz. vol. 181; p. 1028.
Airship. J. J. Daniels. No. 1,037,450; Sept. 3; Gaz. vol. 182; p. 94.
Airship. E. F. Fisher. No. 1,038,106; Sept. 10; Gaz. vol. 182; p. 344.
Airship. C. A. Kuenzel. No. 1,038,602; Sept. 17; Gaz. vol. 182; p. 549.
Airship. C. A. Furtaw. No. 1,039,116; Sept. 24; Gaz. vol. 182; p. 740.
Airship. E. H. Mattson. No. 1,039,160; Sept. 24; Gaz. vol. 182; p. 754.
Airship. H. G. Baker. No. 1,040,608; Oct. 8; Gaz. vol. 183; p. 349.
Airship. F. W. Goyette. No. 1,042,338; Oct. 22; Gaz. vol. 183; p. 1000.
Airship. D. A. Flanigan. No. 1,043,004; Oct. 29; Gaz. vol. 183; p. 1259.
Airship. E. H. Kelly. No. 1,044,466; Nov. 12; Gaz. vol. 184; p. 525.
Airship. E. M. Ralls. No. 1,045,746; Nov. 26; Gaz. vol. 184; p. 1032.
Airship. W. P. Harris. No. 1,047,937; Dec. 24; Gaz. vol. 185; p. 843.
Airship-balancing device. G. H. Kellogg. No. 1,035,795; Aug. 13; Gaz. vol. 181; p. 500.
Airship, Dirigible. E. Bucher. No. 1,027,590; May 28; Sp. p. 5486; Gaz. vol. 178; p. 959.
Airship life-saver. F. Rilleau. No. 1,046,023; Dec. 3; Gaz. vol. 185; p. 76.
Airship, Multiplane. E. H. Sassil. No. 1,024,287; Apr. 23; Sp. p. 5421; Gaz. vol. 177; p. 950.
Airship or the like. F. Rosbory. No. 1,025,539; May 7; Sp. p. 972; Gaz. vol. 178; p. 151.
Airship-propeller. R. H. Milton. No. 1,028,765; June 4; Sp. p. 1502; Gaz. vol. 179; p. 233.
Airship-propelling device. A. Schaeffer. No. 1,035,479; Aug. 13; Gaz. vol. 181; p. 395.
Airship, Turbine-. F. H. Albert. No. 1,041,942; Oct. 22; Gaz. vol. 183; p. 869.
Airships, aeroplanes, and submarine boats, Elastically-connected surfaces for insuring the stability of. G. A. Crocco and O. Ricaldoni. No. 1,038,507; Sept. 10; Gaz. vol. 182; p. 481.
Airships and the like, Means for maintaining equilibrium of. J. L. Roche. No. 1,016,363; Feb. 6; Sp. p. 277; Gaz. vol. 175; p. 44.
Airships, Balloon for. E. Roth. No. 1,048,101; Dec. 24; Gaz. vol. 185; p. 897.
Airships, Equilibrator for. D. B. Ellsworth. No. 1,024,398; Apr. 23; Sp. p. 5651; Gaz. vol. 177; p. 984.
Airships, Method of and apparatus for delivering submarine torpedoes from. B. A. Fiske. No. 1,032,394; July 16; Gaz. vol. 180; p. 619.
Airships, Propulsion of. E. Surcouf. No. 1,019,283; Mar. 5; Sp. p. 620; Gaz. vol. 176; p. 97.
Alarm: *See* Air-current-actuated alarm; Automobile-alarm; Automobile, &c., alarm; Bicycle-alarm; Boiler water-alarm; Burglar-alarm; Burglar and fire alarm; Detonating alarm; Door-alarm; Electric alarm; Electrical alarm; Electrowhistle-alarm; Fire-alarm; Fire and burglar alarm; Gas-alarm; High and low water alarm; Hot-bearing alarm; Incubator and brooder alarm; Low-water alarm; Mail-box alarm; Mail-box electric alarm; Overflow-alarm; Puncture-alarm; Railway danger-alarm; Safety-alarm; Speed-alarm; Temperature-alarm; Tire-alarm; Type-writer alarm.
Alarm. M. Karminski and C. Peters. No. 1,031,272; July 2; Gaz. vol. 180; p. 150.
Alarm. G. Yoch. No. 1,035,510; Aug. 13; Gaz. vol. 181; p. 405.
Alarm. S. Hoge. No. 1,037,767; Sept. 3; Gaz. vol. 182; p. 197.
Alarm. J. Hartley. No. 1,040,197; Oct. 1; Gaz. vol. 183; p. 176.
Alarm. A. L. Macklin. No. 1,042,244; Oct. 22; Gaz. vol. 183; p. 968.
Alarm-actuating mechanism, Automatic. L. D. Ikenberry. No. 1,018,664; Feb. 27; Sp. p. 5421; Gaz. vol. 175; p. 940.
Alarm and sash-lock. L. E. Robinson. No. 1,017,804; Feb. 20; Sp. p. 3481; Gaz. vol. 175; p. 612.
Alarm apparatus. J. D. Nelson and E. F. Smith. No. 1,022,497; Apr. 9; Sp. p. 1563; Gaz. vol. 177; p. 280.
Alarm apparatus, High and low water. A. R. Walls. No. 1,027,299; May 21; Sp. p. 4892; Gaz. vol. 178; p. 823.
Alarm device. J. Marshak. No. 1,036,869; Aug. 27; Gaz. vol. 181; p. 940.
Alarm device. V. Butler. No. 1,037,432; Sept. 3; Gaz. vol. 182; p. 86.
Alarm device. J. Kramer. No. 1,046,080; Dec. 3; Gaz. vol. 185; p. 97.
Alarm device, Combination. M. R. Hutchison; No. 1,043,704; Nov. 5; Gaz. vol. 184; p. 232.
Alarm device, Detonating-. E. B. Waldron. No. 1,014,792; Jan. 16; Sp. p. 3793; Gaz. vol. 174; p. 644.
Alarm for boxes and other receptacles. S. Mundler. No. 1,027,272; May 21; Sp. p. 4829; Gaz. vol. 178; p. 814.
Alarm-lock. L. Nagy. No. 1,047,105; Dec. 10; Gaz. vol. 185; p. 490.
Alarm mechanism. C. S. Olson. No. 1,036,692; Aug. 27; Gaz. vol. 181; p. 881.
Alarm mechanism. C. H. Hyde. No. 1,049,303; Dec. 31; Gaz. vol. 185; p. 1347.
Alarm or acoustic apparatus. E. Rubes. No. 1,035,745; Aug. 13; Gaz. vol. 181; p. 484.
Alarm or acoustic apparatus. E. Rubes. No. 1,035,746; Aug. 13; Gaz. vol. 181; p. 484.
Alarm-signal device. R. H. Manson. No. 1,020,768; Mar. 19; Sp. p. 3761; Gaz. vol. 176; p. 659.

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Alarm-sounding device. R. A. Gasch. No. 1,035,572; Aug. 13; Gaz. vol. 181; p. 427.
Alarm system, Thermostatic. W. G. Asmus. No. 1,015,118; Jan. 16; Sp. p. 4499; Gaz. vol. 174; p. 757.
Alarms, &c., Apparatus for operating. G. I. Rockwood. No. 1,033,472; July 23; Gaz. vol. 180; p. 1021.
Alarms or other devices, Apparatus for operating. G. I. Rockwood. No. 1,015,080; Jan. 16; Sp. p. 4423; Gaz. vol. 174; p. 744.
Albumin, Producing a soluble, digestible, and easily-assimilated. C. U. Dahle. No. 1,048,949; Dec. 31; Gaz. vol. 185; p. 1226.
Albuminoid compound, Indurated. B. B. Goldsmith. No. 1,027,121; May 21; Sp. p. 4541; Gaz. vol. 178; p. 763.
Alcohol-burner. H. V. Smith. No. 1,041,893; Oct. 22; Gaz. vol. 183; p. 853.
Alcohol from sulfite liquor, Manufacturing. P. Ekstrom. No. 1,042,332; Oct. 22; Gaz. vol. 183; p. 997.
Alcohol from the waste sulfite-cellulose lyes, Producing. P. G. Ekström. No. 1,035,086; Aug. 6; Gaz. vol. 181; p. 228.
Alcohol, Making. K. Kiefer. No. 1,041,298; Oct. 15; Gaz. vol. 183; p. 616.
Alcohols, Manufacture of carbamates of tertiary. H. Thron, E. Sprongerts, and C. Freund. No. 1,016,977; Feb. 13; Sp. p. 1660; Gaz. vol. 175; p. 292.
Alfalfa, Automatic feeding mechanism for ground. No. 1,031,073; July 2; Gaz. vol. 180; p. 80.
Alfalfa-shredding mill. R. F. Pack. No. 1,025,480; May 7; Sp. p. 833; Gaz. vol. 178; p. 130.
Alining device for signature-gathering machines. E. R. Kast. No. 1,030,891; July 2; Gaz. vol. 180; p. 14.
Alizarin from anthraquinone, Production of. C. Möllenhoff. No. 1,036,881; Aug. 27; Gaz. vol. 181; p. 943.
Alizarin, Production of. C. Möllenhoff. No. 1,036,880; Aug. 27; Gaz. vol. 181; p. 983.
Alkali aluminates, Manufacture of. D. A. Peniakoff. No. 1,045,097; Nov. 19; Gaz. vol. 184; p. 776.
Alkali hydroxids. A. W. Ekstrom. No. 1,034,599; Aug. 6; Gaz. vol. 181; p. 65.
Alkali-metal compounds from minerals, Obtaining. M. M. Haff. No. 1,018,186; Feb. 20; Sp. p. 4352; Gaz. vol. 175; p. 747.
Alkali-metal cyanids, Manufacturing. J. A. Kendall. No. 1,037,019; Aug. 27; Gaz. vol. 181; p. 990.
Alkali metal from oxygen compounds of alkali, Producing. H. Mehner. No. 1,016,758; Feb. 6; Sp. p. 1176; Gaz. vol. 175; p. 181.
Alkali metals, Manufacture of. H. Specketer and W. Hofmann. No. 1,034,320; July 30; Gaz. vol. 180; p. 1336.
Alkali metals, Production of cyanamids and cyanids of the. E. A. Ashcroft. No. 1,041,566; Oct. 15; Gaz. vol. 183; p. 703.
Alkali perborates, Treating mother-liquors formed in making. F. Hoyler, A. L. Gardner, and H. Foersterling. No. 1,046,594; Dec. 10; Gaz. vol. 185; p. 316.
Alkali solutions, Purification of caustic-. E. Bloch-Pimentel. No. 1,044,434; Nov. 12; Gaz. vol. 184; p. 514.
Alkali stannates, Purifying. G. Spitz. No. 1,041,895; Oct. 22; Gaz. vol. 183; p. 854.
Alkaline battery. W. Morrison. No. 1,020,568; Mar. 19; Sp. p. 3314; Gaz. vol. 176; p. 592.
Alkaloidal substance. J. U. Lloyd. No. 1,048,711; Dec. 31; Gaz. vol. 185; p. 1144.
Alkaloids and alkaloidal salts, Extracting, purifying, and excluding. J. U. Lloyd. No. 1,048,712; Dec. 31; Gaz. vol. 185; p. 1144.
Alkyl ether of isourea. M. Engelmann and B. Merkel. No. 1,028,936; June 11; Sp. p. 1891; Gaz. vol. 179; p. 327.
Alloy. P. Debas. No. 1,014,642; Jan. 16; Sp. p. 3460; Gaz. vol. 174; p. 595.
Alloy. J. W. Donnell. No. 1,025,131; May 7; Sp. p. 44; Gaz. vol. 178; p. 9.
Alloy. R. B. Carnahan, Jr. No. 1,035,947; Aug. 20; Gaz. vol. 181; p. 591.
Alloy. J. F. Duke. No. 1,044,761; Nov. 19; Gaz. vol. 184; p. 660.
Alloy and producing the same. I. Ladoff. No. 1,040,699; Oct. 8; Gaz. vol. 183; p. 383.
Alloy, Boron-carbon. E. Weintraub. No. 1,019,393; Mar. 5; Sp. p. 909; Gaz. vol. 176; p. 134.
Alloy for coating with metal. C. F. Burgess. No. 1,014,751; Jan. 16; Sp. p. 3695; Gaz. vol. 174; p. 631.
Alloy for coating with metal. C. F. Burgess. No. 1,014,946; Jan. 16; Sp. p. 4154; Gaz. vol. 174; p. 698.
Alloy, Iron-nickel-copper. G. H. Clamer. No. 1,016,549; Feb. 6; Sp. p. 747; Gaz. vol. 175; p. 110.
Alloy manufacture. R. B. Carnahan, Jr. No. 1,035,948; Aug. 20; Gaz. vol. 181; p. 591.
Alloy, Metallic. G. Hartmann and R. J. Busch. No. 1,020,757; Mar. 19; Sp. p. 3733; Gaz. vol. 176; p. 655.
Alloy of copper and zinc. A. Schmid. No. 1,040,027; Oct. 1; Gaz. vol. 183; p. 118.
Alloy of manganese and titanium and producing the same. A. J. Rossi. No. 1,023,331; Apr. 16; Sp. p. 3390; Gaz. vol. 177; p. 605.
Alloy of the precious metals and increasing hardness of such alloy. A. J. Rossi. No. 1,023,332; Apr. 16; Sp. p. 3391; Gaz. vol. 177; p. 605.
Alloy of the precious metals and increasing hardness of such alloy. A. J. Rossi. No. 1,023,334; Apr. 16; Sp. p. 3395; Gaz. vol. 177; p. 606.
Alloy of titanium and aluminum, Producing the binary. A. J. Rossi. No. 1,020,517; Mar. 19; Sp. p. 3193; Gaz. vol. 176; p. 572.
Alloy of titanium and zinc, Producing the binary. A. J. Rossi. No. 1,022,597; Apr. 9; Sp. p. 1788; Gaz. vol. 177; p. 313.
Alloy of titanium, copper, and silicon. A. J. Rossi. No. 1,023,333; Apr. 16; Sp. p. 3393; Gaz. vol. 177; p. 605.
Alloy of titanium with copper, Producing the. A. J. Rossi. No. 1,022,599; Apr. 9; Sp. p. 1790; Gaz. vol. 177; p. 314.
Alloy of titanium with lead, Producing an. A. J. Rossi. No. 1,022,799; Apr. 9; Sp. p. 2243; Gaz. vol. 177; p. 384.
Alloy of titanium with lead, Producing the. A. J. Rossi. No. 1,019,529; Mar. 5; Sp. p. 1197; Gaz. vol. 176; p. 177.
Alloy of titanium with tin, Producing the. A. J. Rossi. No. 1,019,530; Mar. 5; Sp. p. 1199; Gaz. vol. 176; p. 178.
Alloy of titanium with tin, Producing the. A. J. Rossi. No. 1,022,598; Apr. 9; Sp. p. 1789; Gaz. vol. 177; p. 314.
Alloy of titanium with zinc, Producing the. A. J. Rossi. No. 1,019,527; Mar. 5; Sp. p. 1193; Gaz. vol. 176; p. 177.
Alloy or metallic compound, Anticorrosive. G. Jacquier. No. 1,019,963; Mar. 12; Sp. p. 2043; Gaz. vol. 176; p. 353.
Alloy, Remelting and refining old or scrap copper. W. S. Rockey and H. Eldridge. No. 1,019,524; Mar. 5; Sp. p. 1188; Gaz. vol. 176; p. 176.
Alloys, Manufacturing and refining copper. W. S. Reckey and H. Eldridge. No. 1,017,629; Feb. 13; Sp. p. 3049; Gaz. vol. 175; p. 514.
Alloys of manganese and titanium, Producing. A. J. Rossi. No. 1,022,595; Apr. 9; Sp. p. 1785; Gaz. vol. 177; p. 313.
Alloys of the precious metals and increasing hardness of such alloys. A. J. Rossi. No. 1,022,596; Apr. 9; Sp. p. 1786; Gaz. vol. 177; p. 313.
Alloys of the precious metals and increasing hardness of such alloys. A. J. Rossi. No. 1,022,600; Apr. 9; Sp. p. 1791; Gaz. vol. 177; p. 314.
Alloys of titanium with ferrometal, Producing. A. J. Rossi. No. 1,019,528; Mar. 5; Sp. p. 1195; Gaz. vol. 176; p. 177.
Alloys or compounds of titanium and copper, Producing. I. Ladoff. No. 1,042,694; Oct. 29; Gaz. vol. 183; p. 1153.
Alloys, Production of. C. A. Hansen. No. 1,041,072; Oct. 15; Gaz. vol. 183; p. 540.
Alphabetical symbols. I. Hill. No. 1,021,189; Mar. 26; Sp. p. 4637; Gaz. vol. 176; p. 850.
Altar, Viaticum cabinet-. C. Gay. No. 1,036,604; Aug. 27; Gaz. vol. 181; p. 852.
Altitude-gage and thermometer, Combined. R. J. Shank. No. 1,031,679; July 2; Gaz. vol. 180; p. 288.
Alumina and making same, Article of. L. E. Saunders. No. 1,037,999; Sept. 10; Gaz. vol. 182; p. 310.
Alumina and potash from feldspar, Extracting. S. Peacock. No. 1,035,812; Aug. 13; Gaz. vol. 181; p. 507.
Alumina from feldspar, Extracting. S. Peacock. No. 1,036,897; Aug. 27; Gaz. vol. 181; p. 948.
Alumina, Manufacturing crystalline. F. J. Tone and T. B. Allen. No. 1,044,296; Nov. 12; Gaz. vol. 184; p. 468.
Alumina, Producing. D. H. Childs. No. 1,036,454; Aug. 20; Gaz. vol. 181; p. 767.
Aluminium or alloy containing aluminium, Direct nickeling of. M. Chirade and J. Canac. No. 1,030,972; July 2; Gaz. vol. 180; p. 43.
Aluminium or its alloys for the deposition of metals thereon, Treatment of surfaces of. Q. Marino. No. 1,045,718; Nov. 26; Gaz. vol. 184; p. 1023.
Aluminium, Producing pulverulent and easily-washable hydrates of. N. A. Langlet and E. L. Rinman. No. 1,015,499; Jan. 23; Sp. p. 5325; Gaz. vol. 174; p. 913.
Aluminium, Welding. F. Jordan. No. 1,033,412; July 23; Gaz. vol. 180; p. 1002.
Aluminous composition. E. Taylor. No. 1,020,781; Mar. 19; Sp. p. 3786; Gaz. vol. 176; p. 663.
Aluminous material and producing nitrogen compounds therefrom, Removing impurities from impure. O. Serpek. No. 1,016,526; Feb. 6; Sp. p. 682; Gaz. vol. 175; p. 102.
Aluminum, carbon, and nitrogen, Compound of. S. Peacock. No. 1,031,581; July 2; Gaz. vol. 180; p. 254.
Aluminum, carbon, and nitrogen, Producing compounds of. S. Peacock. No. 1,035,727; Aug. 13; Gaz. vol. 181; p. 479.
Aluminum fluorid, Producing. D. H. Childs. No. 1,036,453; Aug. 20; Gaz. vol. 181; p. 767.
Aluminum formate and product obtained thereby, Producing water-soluble crystalline. F. Quade. No. 1,030,747; June 25; Sp. p. 6064; Gaz. vol. 179; p. 1033.
Aluminum nitrid, Manufacturing. O. Serpek. No. 1,030,929; July 2; Gaz. vol. 180; p. 27.

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Aluminum or its alloys for soldering, Process of and composition for coating. B. D. Avis, Jr. No. 1,029,522; June 11; Sp. p. 3144; Gaz. vol. 179; p. 527.
Aluminum or the like, Composition to facilitate the tapping of. H. A. Kern. No. 1,041,484; Oct. 15; Gaz. vol. 183; p. 677.
Aluminum sulfate, Making. P. H. Carter, H. H. Shackleton, and T. E. Grafton. No. 1,037,591; Sept. 3; Gaz. vol. 182; p. 139.
Aluminum, Treating. A. J. Rossi. No. 1,019,531; Mar. 5; Sp. p. 1201; Gaz. vol. 176; p. 178.
Amalgamating apparatus. A. A. Lockwood. No. 1,043,611; Nov. 5; Gaz. vol. 184; p. 201.
Amalgamating-flume table. E. H. Tate. No. 1,021,277; Mar. 26; Sp. p. 4826; Gaz. vol. 176; p. 880.
Amalgamating system. L. J. Kendrick and J. G. Tunnicliffe. No. 1,013,496; Jan. 2; Sp. p. 893; Gaz. vol. 174; p. 142.
Amalgamator. J. G. Scott. No. 1,018,448; Feb. 27; Sp. p. 4902; Gaz. vol. 175; p. 867.
Amalgamator. P. Kuehn. No. 1,019,054; Mar. 5; Sp. p. 89; Gaz. vol. 176; p. 18.
Amalgamator. C. C. Ellis. No. 1,027,244; May 21; Sp. p. 4779; Gaz. vol. 178; p. 804.
Amalgamator. W. J. Gruss and M. R. McColloms. No. 1,032,332; July 9; Gaz. vol. 180; p. 553.
Amalgamator. G. H. Woodhouse and W. L. Brown. No. 1,034,051; July 30; Gaz. vol. 180; p. 1244.
Amalgamator. F. W. Lewis. No. 1,034,259; July 30; Gaz. vol. 180; p. 1316.
Amalgamator. C. F. Cropsey. No. 1,035,541; Aug. 13; Gaz. vol. 181; p. 417.
Amalgamator. F. J. Hoyt. No. 1,042,229; Oct. 22; Gaz. vol. 183; p. 964.
Amalgamator. R. Luckenbach. No. 1,042,701; Oct. 29; Gaz. vol. 183; p. 1155.
Amalgamator. R. F. Lounsberry. No. 1,048,714; Dec. 31; Gaz. vol. 185; p. 1145.
Ambulance, Animal-. A. Melzer. No. 1,019,268; Mar. 5; Sp. p. 574; Gaz. vol. 176; p. 92.
Ammonia and aluminium compounds, Producing. C. Bosch and A. Mittasch. No. 1,043,798; Nov. 12; Gaz. vol. 184; p. 295.
Ammonia-compressor. W. H. Hayner. No. 1,032,603; July 16; Gaz. vol. 180; p. 688.
Ammonia-compressor and valve-operating mechanism therefor. J. H. Dennedy. No. 1,048,392; Dec. 24; Gaz. vol. 185; p. 995.
Ammonia from distillation-gases, Recovery of. W. Mueller. No. 1,045,590; Nov. 26; Gaz. vol. 184; p. 977.
Ammonia from gases, Recovering. H. Koppers. No. 1,013,404; Jan. 2; Sp. p. 694; Gaz. vol. 174; p. 110.
Ammonia from gases, Recovering combined. H. L. Doherty. No. 1,043,210; Nov. 5; Gaz. vol. 184; p. 59.
Ammonia-generator. A. E. Bossé. No. 1,014,040; Jan. 9; Sp. p. 2135; Gaz. vol. 174; p. 356.
Ammonia in the cuprammonium cellulose precipitation, Recovering. E. Bronnert. No. 1,023,548; Apr. 16; Sp. p. 3811; Gaz. vol. 177; p. 672.
Ammonia manufacture by means of aluminium nitrid. O. Serpek. No. 1,040,439; Oct. 8; Gaz. vol. 183; p. 288.
Ammonia, Oxidizing. L. C. Jones, D. A. Morton, and G. N. Terziev. No. 1,037,261; Sept. 3; Gaz. vol. 182; p. 29.
Ammonia, Producing. S. Peacock. No. 1,031,582; July 2; Gaz. vol. 180; p. 254.
Ammonia salt from the distillation-gases of coal, Recovering. H. L. Doherty. No. 1,043,211; Nov. 5; Gaz. vol. 184; p. 59.
Ammonium and zinc values from sal-ammoniac-flux skimmings, Reclaiming. J. McFetridge. No. 1,044,557. Nov. 19; Gaz. vol. 184; p. 587.
Ammonium carbonate and sulfur from crude coal-gas, Manufacturing. H. L. Doherty. No. 1,043,212; Nov. 5; Gaz. vol. 184; p. 60.
Ammonium carbonate, Manufacture of. J. Bueb. No. 1,018,406; Feb. 27; Sp. p. 4810; Gaz. vol. 175; p. 852.
Ammonium chlorid, Making pure. F. A. Freeth and H. E. Cocksedge. No. 1,035,696; Aug. 13; Gaz. vol. 181; p. 467.
Ammonium compounds and making same, Aromatic. H. S. A. Holt and O. Schmidt. No. 1,036,241; Aug. 20; Gaz. vol. 181; p. 695.
Ammonium sulfite into ammonium sulfate, Converting. K. Burkheiser. No. 1,034,974; Aug. 6; Gaz. vol. 181; p. 192.
Ammunition-hoist. R. Star. No. 1,040,047; Oct. 1; Gaz. vol 183; p. 125.
Ammunition-hoisting gear for heavy ordnance. A. T. Dawson and J. Horne. No. 1,033,233; July 23; Gaz. vol. 180; p. 942.
Ammunition-loading apparatus. J. F. Meigs and R. P. Stout. No. 1,018,067; Feb. 20; Sp. p. 4092; Gaz. vol. 175; p. 704.
Ammunition-wagon. K. Völler. No. 1,045,761; Nov. 26; Gaz. vol. 184; p. 1037.
Ammunition-wagon, Tilting. W. Mayer. No. 1,045,719; Nov. 26; Gaz. vol. 184; p. 1024.
Amorphous anhydrous barium hydroxid, Making. C. Rollin. No. 1,015,345; Jan. 23; Sp. p. 4987; Gaz. vol. 174; p. 861.
Amorphous anhydrous barium hydroxid, Making. C. Rollin. No. 1,017,593; Feb. 13; Sp. p. 2977; Gaz. vol. 175; p. 503.
Amplifier. G. W. Pickard. No. 1,027,755; May 28; Sp. p. 5808; Gaz. vol. 178; p. 1012.
Ampoule. F. R. Eldred. No. 1,022,069; Apr. 2; Sp. p. 675; Gaz. vol. 177; p. 108.
Amusement and strength-testing apparatus. C. Spratt and F. J. Shenton. No. 1,039,611; Sept. 24; Gaz. vol. 182; p. 914.
Amusement apparatus. W. E. Miller. No. 1,013,202; Jan. 2; Sp. p. 229; Gaz. vol. 174; p. 39.
Amusement apparatus. W. E. Miller. No. 1,013,203; Jan. 2; Sp. p. 230; Gaz. vol. 174; p. 39.
Amusement apparatus. Y. Fishback. No. 1,017,526; Feb. 13; Sp. p. 2858; Gaz. vol. 175; p. 482.
Amusement apparatus. W. S. Van Sant and J. R. Banker. No. 1,026,333; May 14; Sp. p. 2746; Gaz. vol. 178; p. 459.
Amusement apparatus. H. N. Ridgway. No. 1,027,437; May 28; Sp. p. 5181; Gaz. vol. 178; p. 908.
Amusement apparatus. D. H. Cleghorn. No. 1,028,543; June 4; Sp. p. 1043; Gaz. vol. 179; p. 159.
Amusement apparatus. J. E. McReynolds. No. 1,030,316; June 25; Sp. p. 4921; Gaz. vol. 179; p. 878.
Amusement apparatus. D. H. Talbert. No. 1,035,659; Aug. 13; Gaz. vol. 181; p. 456.
Amusement apparatus. J. Gunzendorfer. No. 1,037,474; Sept. 3; Gaz. vol. 182; p. 102.
Amusement apparatus. T. E. Gregson. No. 1,048,152; Dec. 24; Gaz. vol. 185; p. 915.
Amusement apparatus called Indian trip. B. F. Van Kannel. No. 1,021,019; Mar. 26; Sp. p. 4278; Gaz. vol. 176; p. 794.
Amusement apparatus, Mechanical. W. Harling. No. 1,018,315; Feb. 20; Sp. p. 4594; Gaz. vol. 175; p. 789.
Amusement device. M. W. McIntyre and R. P. Conner. No. 1,013,843; Jan. 2; Sp. p. 1656; Gaz. vol. 174; p. 263.
Amusement device. J. H. Craun and S. Baldwin. No. 1,014,571; Jan. 9; Sp. p. 3230; Gaz. vol. 174; p. 538.
Amusement device. E. R. Ramsey. No. 1,021,331; Mar. 26; Sp. p. 4928; Gaz. vol. 176; p. 901.
Amusement device. F. J. H. Hazard. No. 1,022,674; Apr. 9; Sp. p. 1953; Gaz. vol. 177; p. 339.
Amusement device. A. M. Ricks. No. 1,024,283; Apr. 23; Sp. p. 5415; Gaz. vol. 177; p. 948.
Amusement device. W. Q. Olden. No. 1,029,710; June 18; Sp. p. 3576; Gaz. vol. 179; p. 631.
Amusement device. N. W. Allegretti. No. 1,029,904; June 18; Sp. p. 4015; Gaz. vol. 179; p. 698.
Amusement device. E. F. Brunello. No. 1,030,970; July 2; Gaz. vol. 180; p. 42.
Amusement device. A. Best and D. L. Dean. No. 1,034,864; Aug. 6; Gaz. vol. 181; p. 157.
Amusement device. A. Molinares. No. 1,034,922; Aug. 6; Gaz. vol. 181; p. 174.
Amusement device. J. P. Dougherty and M. Beeman. No. 1,035,168; Aug. 13; Gaz. vol. 181; p. 286.
Amusement device. I. Kiralfy. No. 1,041,299; Oct. 15; Gaz. vol. 183; p. 616.
Amusement device. W. F. Watkins. No. 1,041,538; Oct. 15; Gaz. vol. 183; p. 695.
Amusement or transporting device. I. Kiralfy. No. 1,043,846; Nov. 12; Gaz. vol. 184; p. 312.
Anchor. W. Marshall and N. Simison. No. 1,026,402; May 14; Sp. p. 2901; Gaz. vol. 178; p. 481.
Anchor. T. B. Butters. No. 1,028,673; June 4; Sp. p. 1312; Gaz. vol. 179; p. 202.
Anchor. E. S. Mowry and H. Hanson. No. 1,033,033; July 16; Gaz. vol. 180; p. 834.
Anchor. A. Cappricci. No. 1,034,872; Aug. 6; Gaz. vol. 181; p. 159.
Anchor. S. P. Birdsey. No. 1,047,155; Dec. 17; Gaz. vol. 185; p. 539.
Anchor. E. R. Merrill. No. 1,047,267; Dec. 17; Gaz. vol. 185; p. 579.
Anchor-bolt. S. Wheeler, Jr. No. 1,035,399; Aug. 13; Gaz. vol. 181; p. 369.
Anchor-bolt. F. J. Snyder. No. 1,037,678; Sept. 3; Gaz. vol. 182; p. 169.
Anchor-bolt, Lead-packed. G. E. Rohmer. (Reissue.) No. 13,496; Dec. 10; Gaz. vol. 185; p. 506.
Anchor, Earth-. F. B. Miller. No. 1,035,893; Aug. 20; Gaz. vol. 181; p. 573.
Anchor, Earth-. J. Blackburn. No. 1,041,233; Oct. 15; Gaz. vol. 183; p. 592.
Anchor, Folding. S. F. Langford. No. 1,036,275; Aug. 20; Gaz. vol. 181; p. 706.
Anchor, Guy-wire. C. D. Enochs. No. 1,044,870; Nov. 19; Gaz. vol. 184; p. 697.
Anchor-plate. H. O. Pritchard. No. 1,035,102; Aug. 6; Gaz. vol. 181; p. 234.
Anchor-plate. H. Anschutz. No. 1,047,727; Dec. 17; Gaz. vol. 185; p. 743.
Anchor, Releasable-fluke. G. E. Champlin. No. 1,042,892; Oct. 29; Gaz. vol. 183; p. 1221.

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Anesthetic-administering apparatus. E. I. McKesson. No. 1,028,582; June 4; Sp. p. 1130; Gaz. vol. 179; p. 172.
Anesthetizing apparatus, Rebreathing-bag for. E. I. McKesson. No. 1,028,583; June 4; Sp. p. 1135; Gaz. vol. 179; p. 172.
Anesthetizing-machine attachment. G. Clarke. No. 1,024,556; Apr. 30; Sp. p. 6071; Gaz. vol. 177; p. 1075.
Angle-bar, nut-lock, and rail joint and brace, Combined. L. Harvey. No. 1,013,488; Jan. 2; Sp. p. 876; Gaz. vol. 174; p. 140.
Angle bead, Inside-. W. A. Wittbecker. No. 1,030,044; June 18; Sp. p. 4310; Gaz. vol. 179; p. 745.
Angle-indicator. O. R. Cassell. No. 1,038,291; Sept. 10; Gaz. vol. 182; p. 407.
Angle-indicators, Stadia attachment for. R. L. McCormick. No. 1,048,718; Dec. 31; Gaz. vol. 185; p. 1146.
Angle-plate, Universal. F. E. Seddon. No. 1,026,932; May 21; Sp. p. 4063; Gaz. vol. 178; p. 697.
Anhydrous hydrosulfites, Production of. E. von Portheim. No. 1,036,705; Aug. 27; Gaz. vol. 181; p. 885.
Anhydrous sulfites and bisulfites, Making. E. H. Strickler. No. 1,023,179; Apr. 16; Sp. p. 3090; Gaz. vol. 177; p. 552.
Anilin and manufacture of same, Nitro derivative of. B. J. Flürscheim. No. 1,045,011; Nov. 19; Gaz. vol. 184; p. 746.
Animal and insect exterminator, Electric. C. C. Tuch. No. 1,031,492; July 2; Gaz. vol. 180; p. 225.
Animal-breeder's bag. W. P. Smith. No. 1,044,934; Nov. 19; Gaz. vol. 184; p. 718.
Animal-catcher. G. D. McDonald and G. H. Lockett. No. 1,036,292; Aug. 20; Gaz. vol. 181; p. 711.
Animal-cleaning device. H. Tideman. No. 1,048,233; Dec. 24; Gaz. vol. 185; p. 940.
Animal-dip, Concentrated. R. M. Chapin. No. 1,049,049; Dec. 31; Gaz. vol. 185; p. 1261.
Animal-exterminator, Electric. O. N. Calvert. No. 1,024,060; Apr. 23; Sp. p. 4908; Gaz. vol. 177; p. 870.
Animal-exterminator, Electric. H. M. Vetterlein. No. 1,049,177; Dec. 31; Gaz. vol. 185; p. 1303.
Animal-jaw puller. H. L. Nash. No. 1,048,335; Dec. 24; Gaz. vol. 185; p. 975.
Animal-releasing means. P. Peel. No. 1,024,649; Apr. 30; Sp. p. 6282; Gaz. vol. 177; p. 1107.
Animal-shears. L. H. La Chance. No. 1,037,933; Sept. 10; Gaz. vol. 182; p. 288.
Animal-throwing device. C. B. Halstead. No. 1,028,352; June 4; Sp. p. 638; Gaz. vol. 179; p. 95.
Animal-trap. J. F. Winkler. No. 1,014,550; Jan. 9; Sp. p. 3185; Gaz. vol. 174; p. 531.
Animal-trap. A. C. Bowser. No. 1,015,471; Jan. 23; Sp. p. 5269; Gaz. vol. 174; p. 903.
Animal-trap. C. Fiedler. No. 1,015,794; Jan. 30; Sp. p. 5954; Gaz. vol. 174; p. 1042.
Animal-trap. B. A. Shaw. No. 1,015,845; Jan. 30; Sp. p. 6060; Gaz. vol. 174; p. 1057.
Animal-trap. J. Opperud. No. 1,016,170; Jan. 30; Sp. p. 6734; Gaz. vol. 174; p. 1171.
Animal-trap. W. B. Knapp. No. 1,016,333; Feb. 6; Sp. p. 222; Gaz. vol. 175; p. 34.
Animal-trap. H. T. Butler. No. 1,016,671; Feb. 6; Sp. p. 1006; Gaz. vol. 175; p. 152.
Animal-trap. J. C. McAtee. No. 1,017,227; Feb. 13; Sp. p. 2230; Gaz. vol. 175; p. 379.
Animal-trap. W. J. Stewart. No. 1.017,479; Feb. 13; Sp. p. 2769; Gaz. vol. 175; p. 467.
Animal-trap. W. H. Tilley. No. 1,017,605; Feb. 13; Sp. p. 2998; Gaz. vol. 175; p. 506.
Animal-trap. M. A. Forslund. No. 1,018,657; Feb. 27; Sp. p. 5413; Gaz. vol. 175; p. 938.
Animal-trap. J. Recko. No. 1,020,448; Mar. 19; Sp. p. 3049; Gaz. vol. 176; p. 552.
Animal-trap. W. G. McQuiston. No. 1,020,950; Mar. 19; Sp. p. 4127; Gaz. vol. 176; p. 720.
Animal-trap. A. Schramm. No. 1,021,428; Mar. 26; Sp. p. 5163; Gaz. vol. 176; p. 934.
Animal-trap. C. E. Walcott. No. 1,022,115; Apr. 2; Sp. p. 769; Gaz. vol. 177; p. 122.
Animal-trap. W. G. Jackson. No. 1,024,782; Apr. 30; Sp. p. 6555; Gaz. vol. 177; p. 1154.
Animal-trap. W. I. Wolverton. No. 1,024,875; Apr. 30; Sp. p. 6748; Gaz. vol. 177; p. 1187.
Animal-trap. R. C. Eldridge and J. Willers. No. 1,025,564; May 7; Sp. p. 1033; Gaz. vol. 178; p. 159.
Animal-trap. R. C. and H. M. Eldridge. No. 1,026,305; May 14; Sp. p. 2678; Gaz. vol. 178; p. 448.
Animal-trap. M. Klobusiak. No. 1,027,854; May 28; Sp. p. 6077; Gaz. vol. 178; p. 1047.
Animal-trap. J. B. Cessna. No. 1,028,435; June 4; Sp. p. 816; Gaz. vol. 179; p. 123.
Animal-trap. R. P. Brown. No. 1,028,538; June 4; Sp. p. 1034; Gaz. vol. 179; p. 157.
Animal-trap. A. E. Swanson. No. 1,028,633; June 4; Sp. p. 1229; Gaz. vol. 179; p. 189
Animal-trap. W. Scott. No. 1,029,087; June 11; Sp. p. 2219; Gaz. vol. 179; p. 379.
Animal-trap. C. M. Harrington. No. 1,029,992; June 18; Sp. p. 4189; Gaz. vol. 179; p. 726.
Animal-trap. J. Van der Walt. No. 1,031,892; July 9; Gaz. vol. 180; p. 405.
Animal-trap. M. Spirikowicz. No. 1,032,089; July 9; Gaz. vol. 180; p. 469.
Animal-trap. W. A. May. No. 1,032,228; July 9; Gaz. vol. 180; p. 518.
Animal-trap. O. Kampfe. No. 1,033,761; July 23; Gaz. vol. 180; p. 1113.
Animal-trap. R. H. Grah. No. 1,034,360; July 30; Gaz. vol. 180; p. 1351.
Animal-trap. H. W. Christman. No. 1,034,978; Aug. 6; Gaz. vol. 181; p. 193.
Animal-trap. G. W. Walters. No. 1,038,246; Sept. 10; Gaz. vol. 182; p. 391.
Animal-trap. J. F. Winkler. No. 1,039,001; Sept. 17; Gaz. vol. 182; p. 687.
Animal-trap. E. B. Anderson. No. 1,039,878; Oct. 1; Gaz. vol. 183; p. 70.
Animal-trap. B. Holt. No. 1,040,329; Oct. 8; Gaz. vol. 183; p. 251.
Animal-trap. T. J. Ellison. No. 1,040,657; Oct. 8; Gaz. vol. 183; p. 339.
Animal-trap. W. B. Spencer. No. 1,043,162; Nov. 5; Gaz. vol. 184; p. 41.
Animal-trap. T. V. Clapp. No. 1,044,350; Nov. 12; Gaz. vol. 184; p. 486.
Animal-trap. J. B. Cessna. No. 1,044,490; Nov. 19; Gaz. vol. 184; p. 563.
Animal-trap. C. L. Kaufman. No. 1,046,799; Dec. 10; Gaz. vol. 185; p. 390.
Animal-trap. W. Kanter. No. 1,048,318; Dec. 24; Gaz. vol. 185; p. 969.
Animal-trap. C. L. McAfee. No. 1,048,422; Dec. 24; Gaz. vol. 185; p. 1004.
Animal-trap, Electrically-operated. R. L. Barnhart. No. 1,020,341; Mar. 12; Sp. p. 2815; Gaz. vol. 176; p. 477.
Ankle support and protector. H. J. Collis. No. 1,037,441; Sept. 3; Gaz. vol. 182; p. 90.
Ankle support and protector. H. J. Collis. No. 1,040,279; Oct. 8; Gaz. vol. 183; p. 233.
Ankle-supporter. A. Quenzer. No. 1,027,897; May 28; Sp. p. 6194; Gaz. vol. 178; p. 1062.
Annealing apparatus, Wire-. W. E. Gibbs. No. 1,043,089; Nov. 5; Gaz. vol. 184; p. 14.
Annealing-box. F. Cordes. No. 1,047,390; Dec. 17; Gaz. vol. 185; p. 623.
Annealing-furnace. H. Gärtner. No. 1,027,471; May 28; Sp. p. 5239; Gaz. vol. 178; p. 919.
Annealing, &c., furnace. W. S. Rockwell. No. 1,037,665; Sept. 3; Gaz. vol. 182; p. 164.
Annealing metallic articles, Device for. A. Kreidler. No. 1,038,901; Sept. 17; Gaz. vol. 182; p. 654.
Annealing-oven. A. J. Meier. No. 1,024,217; Apr. 23; Sp. p. 5278; Gaz. vol. 177; p. 925.
Annealing-pot, Welded wrought-iron. E. T. Lammine. No. 1,014,491; Jan. 9; Sp. p. 3081; Gaz. vol. 174; p. 512.
Annunciator. C. Christiansen. No. 1,038,724; Sept. 17; Gaz. vol. 182; p. 592.
Annunciator. L. L. Simpson. No. 1,038,795; Sept. 17; Gaz. vol. 182; p. 617.
Annunciator and cabinet for barber-shops. I. J. Bradshaw. No. 1,028,856; June 11; Sp. p. 1700; Gaz. vol. 179; p. 298.
Annunciator and signaling system, Electric. F. C. Graham. No. 1,038,117; Sept. 10; Gaz. vol. 182; p. 347.
Annunciator apparatus. M. B. Mills. No. 1,027,749; May 28; Sp. p. 5798; Gaz. vol. 178; p. 1010.
Annunciator or indicator. W. S. Woodruff. No. 1,026,779; May 21; Sp. p. 3719; Gaz. vol. 178; p. 644.
Anode and manufacturing the same. M. Huth. No. 1,043,937; Nov. 12; Gaz. vol. 184; p. 344.
Anode, Electrolytic. H. E. Beach. No. 1,019,588; Mar. 5; Sp. p. 1304; Gaz. vol. 176; p. 196.
Anode for use by electrolysis of alkaline-salt solutions. A. T. K. Estelle. No. 1,041,261; Oct. 15; Gaz. vol. 183; p. 603.
Anode-mud resulting from electrolytic refining, Treating the. H. Wehrlin. No. 1,049,013; Dec. 31; Gaz. vol. 185; p. 1248.
Anode-support. C. E. Leffel. No. 1,036,654; Aug. 27; Gaz. vol. 181; p. 869.
Anode-support. C. E. Leffel. No. 1,036,655; Aug. 27; Gaz. vol. 181; p. 869.
Anthracene compounds and making same. J. H. Boner and O. Bally. No. 1,026,557; May 14; Sp. p. 3214; Gaz. vol. 178; p. 531.
Anthracene derivatives and making same. A. Zitscher and E. J. Rath. No. 1,028,521; June 4; Sp. p. 1004; Gaz. vol. 179; p. 152.
Anti-rail-creeper. O. K. Ramstead. No. 1,025,303; May 7; Sp. p. 422; Gaz. vol. 178; p. 69.
Anti-rail-creeper and splice-bar. F. B. Byers. No. 1,023,991; Apr. 23; Sp. p. 4765; Gaz. vol. 177; p. 845.
Antifriction device. A. E. O'Brien. No. 1,046,841; Dec. 10; Gaz. vol. 185; p. 402.
Antiseptic. J. Wittlin. No. 1,044,840; Nov. 19; Gaz. vol. 184; p. 687.
Antiseptic ventilator. C. F. Putney. No. 1,033,467; July 23; Gaz. vol. 180; p. 1019.
Antiskid device. D. J. Martin. No. 1,023,580; Apr. 16; Sp. p. 3883; Gaz. vol. 177; p. 684.

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Antiskid device. L. S. Thompson. No. 1,027,450; May 28; Sp. p. 5201; Gaz. vol. 178; p. 912.
Antiskid device. R. Himeno. No. 1,030,238; June 18; Sp. p. 4716; Gaz. vol. 179; p. 812.
Antiskid devices, Link for cross-chains of. F. A. Fox. No. 1,018,179; Feb. 20; Sp. p. 4333; Gaz. vol. 175; p. 744.
Antiskid-grip. L. B. Gaylor. No. 1,020,489; Mar. 19; Sp. p. 3132; Gaz. vol. 176; p. 565.
Antiskidding attachment for wheels. C. H. Myers. No. 1,016,846; Feb. 6; Sp. p. 1353; Gaz. vol. 175; p. 209.
Antiskidding device. H. A. Fisk. No. 1,017,961; Feb. 20; Sp. p. 3851; Gaz. vol. 175; p. 667.
Antiskidding device. E. Finking. No. 1,038,737; Sept. 17; Gaz. vol. 182; p. 596.
Antiskidding device. T. W. Simmons. No. 1,042,722; Oct. 29; Gaz. vol. 183; p. 1163.
Antiskidding device. W. H. Putnam. No. 1,045,609; Nov. 26; Gaz. vol. 184; p. 985.
Antiskidding device. R. J. Thiesen and C. T. King, Jr. No. 1,048,376; Dec. 24; Gaz. vol. 185; p. 990.
Antiskidding device for vehicles. M. J. Rohr. No. 1,026,224; May 14; Sp. p. 2508; Gaz. vol. 178; p. 420.
Antislipping device. W. Findlay. No. 1,024,981; Apr. 30; Sp. p. 6955; Gaz. vol. 177; p. 1223.
Antislipping device for horses and other animals. J. G. Harris. No. 1,032,138; July 9; Gaz. vol. 180; p. 485.
Antislipping device for the foot. A. G. Uptegraff. No. 1,046,509; Dec. 10; Gaz. vol. 185; p. 287.
Anvil. T. Vezie and W. L. Evans. No. 1,037,088; Aug. 27; Gaz. vol. 181; p. 1012.
p. 11.
Anvil and swage-block, Interlocking. J. W. Coyle and D. E. Lynch. No. 1,037,209; Sept. 3; Gaz. vol. 182;
Anvil for stapling-machines. O. C. Fenlason. No. 1,046,752; Dec. 10; Gaz. vol. 185; p. 373.
Anvils, Hardy attachment for. C. C. and M. Gray. No. 1,028,016; May 28; Sp. p. 6414; Gaz. vol. 178; p. 1100.
Apertured bolt applicable especially for fixing rails onto the wooden sleepers. R. D. Wagner. No. 1,021,390; Mar. 26; Sp. p. 5057; Gaz. vol. 176; p. 920.
Apparel, Article of wearing-. M. F. Goodman. No. 1,048,150; Dec. 24; Gaz. vol. 185; p. 915.
Apparel, cloth, and other article, Buoyant wearing-. K. Hartwig. No. 1,044,652; Nov. 19; Gaz. vol. 184; p. 621.
Apparel-hanger. G. Fuskerud. No. 1,034,439; Aug. 6; Gaz. vol. 181; p. 14.
Apparel, Lock for wearing-. F. G. Stringer. No. 1,022,980; Apr. 9; Sp. p. 2621; Gaz. vol. 177; p. 446.
Apparel-supports, Spring attachment for. A. C. F. Bartz. No. 1,020,473; Mar. 19; Sp. p. 3098; Gaz. vol. 176; p. 560.
Apparel, Wearing-. J. L. Cabelinsky. No. 1,033,047; July 16; Gaz. vol. 180; p. 839.
Apparel, Wearing-. W. H. Ebsary. No. 1,041,711; Oct. 15; Gaz. vol. 183; p. 752.
Apple jelly and making the same. F. L. Jefferies. No. 1,045,849; Dec. 3; Gaz. vol. 185; p. 19.
Appliance for illustrating the specific relation that exists between the faculties of sensation and emotion in the animal organism. S. Scholfield. No. 1,019,703; Mar. 5; Sp. p. 1509; Gaz. vol. 176; p. 234.
Apricot and peach cutter. A. L. Morton. No. 1,033,446; July 23; Gaz. vol. 180; p. 1012.
Apron. L. Daum. No. 1,031,054; July 2; Gaz. vol. 180; p. 74.
Apron, Mechanic's. F. O. Potter. No. 1,018,078; Feb. 20; Sp. p. 4112; Gaz. vol. 175; p. 708.
Apron, Milking-. G. W. Vahl. No. 1,023,974; Apr. 23; Sp. p. 4730; Gaz. vol. 177; p. 839.
Arbor and cutter. W. C. Adams. No. 1,044,333; Nov. 12; Gaz. vol. 184; p. 480.
Arbor-press and punching-machine, Combined. J. A. Gilmore. No. 1,033,050; July 16; Gaz. vol. 180; p. 840.
Arbor press or ram. G. T. Eames. No. 1,038,543; Sept. 17; Gaz. vol. 182; p. 528.
Arc-counteracting means. R. E. Hellmund. No. 1,028,112; June 4; Sp. p. 39; Gaz. vol. 179; p. 10.
Arc-light cut-out. C. L. Bundy. No. 1,047,744; Dec. 17; Gaz. vol. 185; p. 750.
Arc-light-producing apparatus. I. Ladoff. No. 1,019,901; Mar. 12; Sp. p. 1918; Gaz. vol. 176; p. 334.
Arch-centering. H. H. Frick. No. 1,019,314; Mar. 5; Sp. p. 696; Gaz. vol. 176; p. 108.
Arch construction. J. Warner. No. 1,038,996; Sept. 17; Gaz. vol. 182; p. 685.
Arch-plate. F. B. Bigelow. No. 1,026,645; May 14; Sp. p. 3410; Gaz. vol. 178; p. 561.
Arch-support. A. E. Block. No. 1,043,058; Nov. 5; Gaz. vol. 184; p. 3.
Arch-support. W. R. Lee. No. 1,045,303; Nov. 26; Gaz. vol. 184; p. 875.
Arch-supports or patterns therefor, Apparatus for forming. W. C. J. Guilford. No. 1,044,170; Nov. 12; Gaz. vol. 184; p. 424.
Arch-supports or patterns therefor, Forming. W. C. J. Guilford. No. 1,044,171; Nov. 12; Gaz. vol. 184; p. 424.
Arch-supporter. J. May. No. 1,033,184; July 23; Gaz. vol. 180; p. 925.

Argillaceous articles, Making. R. D. Mershon. No. 1,034,815; Aug. 6; Gaz. vol. 181; p. 140.
Arm, Artificial. W. T. Carnes. No. 1,046,966; Dec. 10; Gaz. vol. 185; p. 444.
Arm, Artificial. W. T. Carnes. No. 1,046,967; Dec. 10; Gaz. vol. 185; p. 445.
Arm-rest. A. E. King. No. 1,019,658; Mar. 5; Sp. p. 1431; Gaz. vol. 177; p. 220.
Arms, Automatic hook for artificial. Q. D. Corley. No. 1,029,794; June 18; Sp. p. 3746; Gaz. vol. 179; p. 660.
Armature for dynamo-electric machines. J. Bache-Wiig. No. 1,017,071; Feb. 13; Sp. p. 1869; Gaz. vol. 175; p. 324.
Armature-winding. J. F. McElroy. No. 1,039,307; Sept. 24; Gaz. vol. 182; p. 809.
Armatures for dynamos and motors, Apparatus for winding. F. N. Pike. No. 1,048,205; Dec. 24; Gaz. vol. 185; p. 932.
Armatures, Vibration-absorber for alternating-current-magnet. C. L. Rosenqvist. No. 1,014,257; Jan. 9; Sp. p. 2600; Gaz. vol. 174; p. 433.
Armor. A. M. Schneider. No. 1,021,804; Apr. 2; Sp. p. 102; Gaz. vol. 177; p. 20.
Armor for battleships. H. G. Dawson. No. 1,023,627; Apr. 16; Sp. p. 3984; Gaz. vol. 177; p. 700.
Armor-plate. J. N. Papendry. No. 1,014,510; Jan. 9; Sp. p. 3118; Gaz. vol. 174; p. 518.
Armor-plate. L. Gathmann. No. 1,035,573; Aug. 13; Gaz. vol. 181; p. 427.
Armor-plate and other steel article. F. Giolitti. No. 1,016,560; Feb. 6; Sp. p. 769; Gaz. vol. 175; p. 113.
Armor-plate and other steel article. F. Giolitti. No. 1,043,416; Nov. 5; Gaz. vol. 184; p. 132.
Armor-plating, Manufacture of. E. Fischer. No. 1,045,691; Nov. 26; Gaz. vol. 184; p. 1014.
Armoring device. C. T. Pratt. No. 1,042,477; Oct. 29; Gaz. vol. 183; p. 1076.
Arseno compound. P. Ehrlich and L. Benda. No. 1,028,101; June 4; Sp. p. 19; Gaz. vol. 179; p. 6.
Arseno compounds and making same. R. Kahn. No. 1,026,094; May 14; Sp. p. 2227; Gaz. vol. 178; p. 376.
Arseno compounds and making same. R. Kahn. No. 1,033,904; July 30; Gaz. vol. 180; p. 1192.
Arsenobenzene derivatives and making same. P. Ehrlich and A. Bertheim. No. 1,017,657; Feb. 20; Sp. p. 3108; Gaz. vol. 175; p. 561.
Art-plaques, Producing. C. O. Henriques. No. 1,014,472; Jan. 9; Sp. p. 3050; Gaz. vol. 174; p. 506.
Article-hanger. G. Syverson. No. 1,025,030; Apr. 30; Sp. p. 7054; Gaz. vol. 177; p. 1239.
Article-holder. G. A. Lanier. No. 1,020,916; Mar. 19; Sp. p. 4049; Gaz. vol. 176; p. 707.
Article-holder. G. B. Hart. No. 1,033,583; July 23; Gaz. vol. 180; p. 1057.
Article of virtu. A. Bohnsack and H. Wilkenhoner. No. 1,044,009; Nov. 12; Gaz. vol. 184; p. 370.
Artillery-vehicle. W. Mayer. No. 1,045,721; Nov. 26; Gaz. vol. 184; p. 1024.
Artillery-vehicles, Limber-coupling for. W. Mayer. No. 1,045,720; Nov. 26; Gaz. vol. 184; p. 1024.
Asbestos from the rock, Machine for separating. J. E. Werner. No. 1,027,163; May 21; Sp. p. 4620; Gaz. vol. 178; p. 776.
Asbestos, Purification of. W. R. Whitney. No. 1,031,498; July 2; Gaz. vol. 180; p. 226.
Aseptic cup. J. J. Shea. No. 1,018,013; Feb. 20; Sp. p. 3957; Gaz. vol. 175; p. 685.
Ash-can, Noiseless. A. M. H. De Bruycker. No. 1,028,672; June 4; Sp. p. 1311; Gaz. vol. 179; p. 202.
Ash-conveyer, Sidewalk endless. A. Sundh. No. 1,025,168; May 7; Sp. p. 128; Gaz. vol. 178; p. 22.
Ash-discharger. W. Burlingham and F. P. Palen. No. 1,020,743; Mar. 19; Sp. p. 3710; Gaz. vol. 176; p. 650.
Ash-pan. D. T. and G. F. Lipscomb. No. 1,037,273; Sept. 3; Gaz. vol. 182; p. 32.
Ash pan and sifter, Combined. C. V. Dame. No. 1,046,990; Dec. 10; Gaz. vol. 185; p. 451.
Ash receiver and holder. G. Voegeli. No. 1,042,851; Oct. 29; Gaz. vol. 183; p. 1206.
Ash-receptacle for smokers. R. J. Piper. No. 1,045,176; Nov. 26; Gaz. vol. 184; p. 831.
Ashes, Device for removing dust from. J. M. Comstock. No. 1,017,651; Feb. 20; Sp. p. 3095; Gaz. vol. 175; p. 559.
Asparagus-cutting frame. M. Jongeneel. No. 1,034,118; July 30; Gaz. vol. 180; p. 1266.
Asparagus-stalk-cutting apparatus. H. M. Nippes. No. 1,046,485; Dec. 10; Gaz. vol. 185; p. 277.
Asphalt-block cooler. G. E. Whitney. No. 1,033,751; July 23; Gaz. vol. 180; p. 1110.
Asphalt blocks, slabs, &c., Manufacture of. C. Artmann. No. 1,031,227; July 2; Gaz. vol. 180; p. 134.
Aspirator. C. W. Nance. No. 1,020,709; Mar. 19; Sp. p. 3632; Gaz. vol. 176; p. 638.
Assembling-machine. O. Ashton. No. 1,026,940; May 21; Sp. p. 4110; Gaz. vol. 178; p. 701.
Assembling-machine. G. A. Ensign. No. 1,040,910; Oct. 8; Gaz. vol. 183; p. 449.
Associating and binding machine. R. C. Seymour. No. 1,048,357; Dec. 24; Gaz. vol. 185; p. 982.

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Assorting and sizing machine. J. J. Brine. No. 1,022,655; Apr. 9; Sp. p. 1911; Gaz. vol. 177; p. 333.
Assorting-machine. W. F. Hebrank. No. 1,020,981; Mar. 26; Sp. p. 4214; Gaz. vol. 176; p. 782.
Assorting-table. H. H. Shults. No. 1,018,636; Feb. 27; Sp. p. 5361; Gaz. vol. 175; p. 930.
Astrakhan fabric, Artificial-. N. Garfinkle. No. 1,048,145; Dec. 24; Gaz. vol. 185; p. 913.
Athletic and theatrical purposes, Apparatus for. T. R. Barrett. No. 1,016,729; Feb. 6; Sp. p. 1116; Gaz. vol. 175; p. 171.
Athletic device. E. M. Smith. No. 1,035,252; Aug. 13; Gaz. vol. 181; p. 315.
Athletic putting-shot. M. C. Murphy. No. 1,036,138; Aug. 20; Gaz. vol. 181; p. 658.
Atmospheric engine. A. R. and G. R. Weisz. No. 1,028,511; June 4; Sp. p. 985; Gaz. vol. 179; p. 149.
Atomizer. F. W. Hinkle. No. 1,018,193; Feb. 20; Sp. p. 4361; Gaz. vol. 175; p. 748.
Atomizer. E. J. Manning. No. 1,020,833; Mar. 19; Sp. p. 3893; Gaz. vol. 176; p. 680.
Atomizer. W. S. Hay. No. 1,032,333; July 9; Gaz. vol. 180; p. 553.
Atomizer. H. Strumpf. No. 1,035,261; Aug. 13; Gaz. vol. 181; p. 318.
Atomizer. G. J. Kelley. No. 1,042,685; Oct. 29; Gaz. vol. 183; p. 1149.
Atomizer, Adjustable. W. D. Baker. No. 1,036,540; Aug. 27; Gaz. vol. 181; p. 830.
Atomizer and nebulizer, Combination. J. J. Holland and W. Discher. No. 1,020,647; Mar. 19; Sp. p. 3493; Gaz. vol. 176; p. 617.
Atomizer for liquid-fuel motors. J. Leflaive. No. 1,027,054; May 21; Sp. p. 4366; Gaz. vol. 178; p. 740.
Atomizer, Liquid-fuel. W. A. White. No. 1,040,827; Oct. 8; Gaz. vol. 183; p. 424.
Atomizer, Liquid-fuel. J., W. M., and M. M. Burdon. No. 1,046,412; Dec. 3; Gaz. vol. 185; p. 215.
Atomizing apparatus. W. J. Smart. No. 1,021,951; Apr. 2; Sp. p. 428; Gaz. vol. 177; p. 69.
Attaching device. H. J. Potter. No. 1,027,431; May 28; Sp. p. 5171; Gaz. vol. 178; p. 906.
Attaching device. W. H. Jobe. No. 1,045,558; Nov. 26; Gaz. vol. 184; p. 967.
Attrition-mill. J. S. Sorensen. No. 1,021,167; Mar. 26; Sp. p. 4588; Gaz. vol. 176; p. 843.
Attrition-mill. A. Schroeder. No. 1,039,326; Sept. 24; Gaz. vol. 182; p. 815.
Audible signal. H. C. Williams and S. R. Payne. No. 1,041,393; Oct. 15; Gaz. vol. 183; p. 647.
Audiphone-transmitter. C. E. Williams. No. 1,026,231; May 14; Sp. p. 2524; Gaz. vol. 178; p. 422.
Auger. L. W. Grissom. No. 1,037,616; Sept. 3; Gaz. vol. 182; p. 147.
Auger-bit. G. P. Butler. No. 1,025,109; Apr. 30; Sp. p. 7220; Gaz. vol. 177; p. 1265.
Auger, Earth-. R. T. Jenney. No. 1,017,416; Feb. 13; Sp. p. 2626; Gaz. vol. 175; p. 444.
Auger, Earth-. D. Wilson. No. 1,035,289; Aug. 13; Gaz. vol. 181; p. 328.
Auger for boring reversed-taper holes. S. B. Thompson. No. 1,013,970; Jan. 9; Sp. p. 1971; Gaz. vol. 174; p. 334.
Auger, Mortising-. O. Crank. No. 1,038,727; Sept. 17; Gaz. vol. 182; p. 592.
Auger point. Well-. G. A. Estel. No. 1,025,967; May 14; Sp. p. 1917; Gaz. vol. 178; p. 330.
Auger, Well-. M. D. Harris. No. 1,036,230; Aug. 20; Gaz. vol. 181; p. 691.
Auto cranking device. F. H. Waddill and R. D. Fonda. No. 1,026,534; May 14; Sp. p. 3173; Gaz. vol. 178; p. 524.
Auto-fender. A. L. Raven. No. 1,043,460; Nov. 5; Gaz. vol. 184; p. 149.
Auto or gas engine starter and indicator. G. E. Ocain. No. 1,025,762; May 7; Sp. p. 1443; Gaz. vol. 178; p. 226.
Auto, Three-wheel. C. C. Holden. No. 1,049,092; Dec. 31; Gaz. vol. 185; p. 1276.
Autos, Revolving lamp-support for. J. B. Eastes. No. 1,025,966; May 14; Sp. p. 1916; Gaz. vol. 178; p. 330.
Autoboat and aeroplane, Combination. F. Grégoire. No. 1,041,779; Oct. 22; Gaz. vol. 183; p. 812.
Autographic register. J. J. Sheehy. No. 1,030,616; June 25; Sp. p. 5732; Gaz. vol. 179; p. 987.
Autographic register. E. J. Barker. No. 1,033,146; July 23; Gaz. vol. 180; p. 912.
Autographic register. E. J. Barker. No. 1,038,824; Sept. 17; Gaz. vol. 182; p. 627.
Autographic register. A. Krauth. No. 1,042,009; Oct. 22; Gaz. vol. 183; p. 891.
Autographic register. A. Krauth. No. 1,045,986; Dec. 3; Gaz. vol. 185; p. 64.
Autographic register. E. J. Barker. No. 1,046,426; Dec. 10; Gaz. vol. 185; p. 255.
Autographic register. E. J. Barker. No. 1,046,719; Dec. 10; Gaz. vol. 185; p. 362.
Autogun attachment. J. Pesek. No. 1,043,717; Nov. 5; Gaz. vol. 184; p. 237.
Automatic brake. A. C. Alexander. No. 1,013,918; Jan. 9; Sp. p. 1845; Gaz. vol. 174; p. 316.
Automatic brake. O. Davis. No. 1,040,520; Oct. 8; Gaz. vol. 183; p. 316.
Automatic coupling. H. S. Miller. No. 1,044,802; Nov. 19; Gaz. vol. 184; p. 674.
Automatic door-closer. C. Tacke, Jr. No. 1,032,569; July 16; Gaz. vol. 180; p. 677.
Automatic drill. R. Pinkett. No. 1,041,343; Oct. 15; Gaz. vol. 183; p. 631.
Automatic fountain. G. W. Baier. No. 1,042,379; Oct. 29; Gaz. vol. 183; p. 1040.
Automatic gate, Optional full-. F. W. Boughton. No. 1,016,203; Jan. 30; Sp. p. 6799; Gaz. vol. 174; p. 1181.
Automatic hanger. A. A. Teets. No. 1,018,279; Feb. 20; Sp. p. 4521; Gaz. vol. 175; p. 777.
Automatic players, Selector for. F. W. Draper. No. 1,021,305; Mar. 26; Sp. p. 4878; Gaz. vol. 176; p. 891.
Automatic regulating-switch. T. Nagel. No. 1,042,950; Oct. 29; Gaz. vol. 183; p. 1240.
Automatic regulator. R. S. Blair. No. 1,043,751; Nov. 5; Gaz. vol. 184; p. 248.
Automatic safety-burner. F. Splettstosser. No. 1,045,755; Nov. 26; Gaz. vol. 184; p. 1035.
Automatic shut-off. C. J. Fish. No. 1,033,308; July 23; Gaz. vol. 180; p. 968.
Automatic signal. C. B. Withrow. No. 1,032,460; July 16; Gaz. vol. 180; p. 640.
Automatic signal. R. M. Millar. No. 1,046,626; Dec. 10; Gaz. vol. 185; p. 327.
Automatic sprinkler. S. B. Erickson. No. 1,024,979; Apr. 30; Sp. p. 6951; Gaz. vol. 177; p. 1222.
Automatic sprinkler. G. Zint. No. 1,038,060; Sept. 10; Gaz. vol. 182; p. 330.
Automatic sprinkler and alarm. T. Williams and A. Lewis. No. 1,030,443; June 25; Sp. p. 5195; Gaz. vol. 179; p. 924.
Automatic switch. C. L. Kennedy. No. 1,018,196; Feb. 20; Sp. p. 4365; Gaz. vol. 175; p. 749.
Automatic switch. T. E. Lee. No. 1,020,147; Mar. 12; Sp. p. 2421; Gaz. vol. 176; p. 413.
Automatic switch. E. E. Clement. No. 1,029,590; June 18; Sp. p. 3289; Gaz. vol. 179; p. 586.
Automatic switch. D. Beaudenon. No. 1,041,951; Oct. 22; Gaz. vol. 183; p. 871.
Automatic switch. W. Griebe and D. C. Ruth. No. 1,045,394; Nov. 26; Gaz. vol. 184; p. 906.
Automatically-locking plate. E. Mosman. No. 1,045,058; Nov. 19; Gaz. vol. 184; p. 762.
Automobile. R. Symmonds, Jr. No. 1,020,375; Mar. 12; Sp. p. 2883; Gaz. vol. 176; p. 488.
Automobile. W. E. Stanley. No. 1,028,975; June 11; Sp. p. 1967; Gaz. vol. 179; p. 340.
Automobile. A. Montel. No. 1,035,461; Aug. 13; Gaz. vol. 181; p. 389.
Automobile. H. A. Moyer. No. 1,036,885; Aug. 27; Gaz. vol. 181; p. 944.
Automobile. A. S. Krotz. No. 1,040,497; Oct. 8; Gaz. vol. 183; p. 382.
Automobile. J. Springer. No. 1,043,163; Nov. 5; Gaz. vol. 184; p. 42.
Automobile-alarm. W. E. Symons. No. 1,019,552; Mar. 5; Sp. p. 1232; Gaz. vol. 176; p. 184.
Automobile, &c., alarm. A. Son. No. 1,037,351; Sept. 3; Gaz. vol. 182; p. 57.
Automobile alarm-pump. W. H. Garlock. No. 1,029,496; June 11; Sp. p. 3096; Gaz. vol. 179; p. 519.
Automobile antiskidding device. E. Kron. No. 1,023,255; Apr. 16; Sp. p. 3233; Gaz. vol. 177; p. 578.
Automobile attachment. F. A. Howard. No. 1,016,631; Feb. 6; Sp. p. 929; Gaz. vol. 175; p. 139.
Automobile attachment. L. P. Halladay. No. 1,043,227; Nov. 5; Gaz. vol. 184; p. 65.
Automobile-body. L. W. Oster and F. J. Miller. No. 1,021,470; Mar. 26; Sp. p. 5267; Gaz. vol. 176; p. 949.
Automobile-body. A. Kraetzer. No. 1,046,201; Dec. 3; Gaz. vol. 185; p. 138.
Automobile body and seat. F. J. Morgan. No. 1,039,780; Oct. 1; Gaz. vol. 183; p. 38.
Automobile-brake. J. D. Taylor. No. 1,044,289; Nov. 12; Gaz. vol. 184; p. 465.
Automobile brake and jack. P. Janek. No. 1,021,779; Apr. 2; Sp. p. 47; Gaz. vol. 177; p. 11.
Automobile, Bucking. E. W. Desenfants. No. 1,039,035; Sept. 17; Gaz. vol. 182; p. 696.
Automobile-buffer. A. L. McGregor. No. 1,014,713; Jan. 16; Sp. p. 3608; Gaz. vol. 174; p. 618.
Automobile-buffer. A. L. McGregor. No. 1,032,690; July 16; Gaz. vol. 180; p. 721.
Automobile-buffer. F. C. Fehrman. No. 1,035,332; Aug. 13; Gaz. vol. 181; p. 344.
Automobile-bumper. F. Lederer. No. 1,035,610; Aug. 13; Gaz. vol. 181; p. 439.
Automobile-bumper. J. and A. H. Hanna. No. 1,043,316; Nov. 5; Gaz. vol. 184 p. 97.
Automobile-chassis. W. H. Bell. No. 1,014,562; Jan. 9; Sp. p. 3210; Gaz. vol. 174; p. 534.
Automobile-chassis. M. S. Towson. No. 1,046,681; Dec. 10; Gaz. vol. 185; p. 347.
Automobile construction. C. L. Walker. No. 1,048,770; Dec. 31; Gaz. vol. 185; p. 1164.
Automobile control. I. F. Baker. No. 1,045,496; Nov. 26; Gaz. vol. 184; p. 943.

Alphabetical list of inventions—Continued.

Automobile control-lever. L. Chevrolet and E. Planche. No. 1,022,401; Apr. 9; Sp. p. 1355; Gaz. vol. 177; p. 248.
Automobile-controller. O. Euler. No. 1,025,387; May 7; Sp. p. 627; Gaz. vol. 178; p. 98.
Automobile, Convertible. A. Klell. No. 1,024,634; Apr. 30; Sp. p. 6259; Gaz. vol. 177; p. 1102.
Automobile-cooler. R. L. Glass and H. S. Walker. No. 1,036,484; Aug. 20; Gaz. vol. 181; p. 778.
Automobile-crank, Safety. C. T. Williams. No. 1,042,303; Oct. 22; Gaz. vol. 183; p. 987.
Automobile-cranks, Locking device for. C. A. Wheeler. No. 1,026,189; May 14; Sp. p. 2420; Gaz. vol. 178; p. 407.
Automobile curtain-support. M. B. Barton. No. 1,017,643; Feb. 20; Sp. p. 3082; Gaz. vol. 175; p. 557.
Automobile-door. L. R. Colbert. No. 1,023,007; Apr. 9; Sp. p. 2668; Gaz. vol. 177; p. 455.
Automobile-doors, &c., Antirattler for. F. Cole. No. 1,037,593; Sept. 3; Gaz. vol. 182; p. 140.
Automobile-doors, Buffer for. L. A. Bedard. No. 1,022,651; Apr. 9; Sp. p. 1904; Gaz. vol. 177; p. 332.
Automobile driving mechanism. C. M. Clark. No. 1,047,886; Dec. 17; Gaz. vol. 185; p. 798.
Automobile-elevator. B. F. Wilson. No. 1,032,975; July 16; Gaz. vol. 180; p. 814.
Automobile engine and transmission suspension device. J. W. West. No. 1,031,497; July 2; Gaz. vol. 180; p. 226.
Automobile engine-starter. W. S. Grigsby. No. 1,033,004; July 16; Gaz. vol. 180; p. 824.
Automobile-engine-starting mechanism. E. L. Weaver and E. C. Kimmel. No. 1,025,496; May 7; Sp. p. 873; Gaz. vol. 178; p. 136.
Automobile-engines, Means for preventing the freezing of water in the circulating systems of. H. S. Campbell. No. 1,028,808; June 4; Sp. p. 1588; Gaz. vol. 179; p. 248.
Automobile-extricator. H. S. McCall. No. 1,034,635; Aug. 6; Gaz. vol. 181; p. 77.
Automobile-fender. O. A. Seppala. No. 1,018,085; Feb. 20; Sp. p. 4122; Gaz. vol. 175; p. 711.
Automobile-fender. J. P. Randerson. No. 1,021,796; Apr. 2; Sp. p. 84; Gaz. vol. 177; p. 17.
Automobile-fender. W. F. Perez. No. 1,023,393; Apr. 16; Sp. p. 3510; Gaz. vol. 177; p. 625.
Automobile-fender. B. F. Stannard and A. Aginskee. No. 1,023,971; Apr. 23; Sp. p. 4724; Gaz. vol. 177; p. 838.
Automobile-fender. J. Hadka. No. 1,026,981; May 21; Sp. p. 4186; Gaz. vol. 178; p. 715.
Automobile-fender. J. K. Bond. No. 1,027,808; May 28; Sp. p. 5932; Gaz. vol. 178; p. 1030.
Automobile-fender and coöperating device. W. A. Lindquist. No. 1,033,425; July 23; Gaz. vol. 180; p. 1005.
Automobile fender and mud-guard, Combined. A. J. Liberty and L. A. Kirchner. No. 1,044,670; Nov. 19; Gaz. vol. 184; p. 627.
Automobile flag-holder. E. H. B. Lindhorst. No. 1,039,554; Sept. 24; Gaz. vol. 182; p. 895.
Automobile-frame. G. H. Jones. No. 1,047,650; Dec. 17; Gaz. vol. 185; p. 716.
Automobile-front. A. E. Gooderham. No. 1,024,567; Apr. 30; Sp. p. 6097; Gaz. vol. 177; p. 1078.
Automobile gearing-lock. J. H. Bull. No. 1,036,186; Aug. 20; Gaz. vol. 181; p. 674.
Automobile glass-screen cleaner. H. F. Buth. No. 1,017,078; Feb. 13; Sp. p. 1899; Gaz. vol. 175; p. 327.
Automobile-governor. J. M. Macdonald. No. 1,047,096; Dec. 10; Gaz. vol. 185; p. 487.
Automobile-heater. E. W. Dilks, D. Reyam, and E. E. Du Pont. No. 1,028,553; June 4; Sp. p. 1068; Gaz. vol. 179; p. 162.
Automobile heating apparatus. G. Ruffier. No. 1,041,879; Oct. 22; Gaz. vol. 183; p. 848.
Automobile-hood. C. S. Wood. No. 1,037,394; Sept. 3; Gaz. vol. 182; p. 73.
Automobile-hood. C. S. Wood. No. 1,037,395; Sept. 3; Gaz. vol. 182; p. 73.
Automobile hood and seat, Combined. H. H. Elwood. No. 1,047,016; Dec. 10; Gaz. vol. 185; p. 459.
Automobile hood-lock. F. C. Miller. No. 1,047,679; Dec. 17; Gaz. vol. 185; p. 727.
Automobile-horn. L. West. No. 1,019,571; Mar. 5; Sp. p. 1273; Gaz. vol. 176; p. 190.
Automobile-horn. R. E. Long. No. 1,019,673; Mar. 5; Sp. p. 1459; Gaz. vol. 176; p. 225.
Automobile-horn. W. Pennock. No. 1,022,564; Apr. 9; Sp. p. 1711; Gaz. vol. 177; p. 302.
Automobile-horn. C. R. Heizmann. No. 1,023,016; Apr. 9; Sp. p. 2686; Gaz. vol. 177; p. 458.
Automobile-horn. W. E. Stephens. No. 1,036,023; Aug. 20; Gaz. vol. 181; p. 615.
Automobile-horn. J. J. Richards, Jr. No. 1,043,032; Oct. 29; Gaz. vol. 183; p. 1269.
Automobile-horn. D. Fifield. No. 1,046,756; Dec. 10; Gaz. vol. 185; p. 375.
Automobile illuminating-sign. H. A. Moeller. No. 1,044,223; Nov. 12; Gaz. vol. 184; p. 442.
Automobile-indicator. J. Hoaker and W. I. Banks. No. 1,025,398; May 7; Sp. p. 649; Gaz. vol. 178; p. 101.
Automobile-jack. C. A. Hart. No. 1,029,993; June 18; Sp. p. 4191; Gaz vol. 179; p. 727.
Automobile-jack. C. A. Hart. No. 1,030,728; June 25; Sp. p. 6025; Gaz. vol. 179; p. 1026.
Automobile-jack. C. E. Kells, Jr. No. 1,037,924; Sept. 10; Gaz. vol. 182; p. 284.
Automobile-jack. H. W. Seely. No. 1,042,154; Oct. 22; Gaz. vol. 183; p. 939.
Automobile lamp-bracket. J. E. Browne and H. H. Colson. No. 1,022,463; Apr. 9; Sp. p. 1504; Gaz. vol. 177; p. 269.
Automobile light-turner. W. G. Moxley. No. 1,023,026; Apr. 9; Sp. p. 2704; Gaz. vol. 177; p. 462.
Automobile-lights, Apparatus for controlling. J. L. Beck. No. 1,018,154; Feb. 20; Sp. p. 4280; Gaz. vol. 175; p. 735.
Automobile-lock. H. J. and E. H. Richner. No. 1,048,211; Dec. 24; Gaz. vol. 185; p. 934.
Automobile-lock. T. Zwolinski. No. 1,048,783; Dec. 31; Gaz. vol. 185; p. 1169.
Automobile locking device. J. Bystrom. No. 1,037,203; Sept. 3; Gaz. vol. 182; p. 8.
Automobile locking mechanism. C. L. Maskey. No. 1,022,431; Apr. 9; Sp. p. 1442; Gaz. vol. 177; p. 258.
Automobile-muffler. M. Shlosberg. No. 1,023,225; Apr. 16; Sp. p. 3176; Gaz. vol. 177; p. 568.
Automobile-muffler. C. G. Boeck. No. 1,044,007; Nov. 12; Gaz. vol. 184; p. 369.
Automobile number-plate. P. M. Hoffman. No. 1,023,471; Apr. 16; Sp. p. 3658; Gaz. vol. 177; p. 649.
Automobile power-brake. G. J. Clayton. No. 1,047,384; Dec. 17; Gaz. vol. 185; p. 622.
Automobile power transmission. C. Zimmerman. No. 1,033,511; July 23; Gaz. vol. 180; p. 1034.
Automobile power-transmission attachment. T. Nesom. No. 1,039,177; Sept. 24; Gaz. vol. 182; p. 760.
Automobile-primer. W. R. Dunkel. No. 1,021,765; Apr. 2; Sp. p. 20; Gaz. vol. 177: p. 6.
Automobile-radiator. C. G. Boeck. No. 1,036,549; Aug. 27; Gaz. vol. 181; p. 833.
Automobile radiator and hood covering. C. Bullock. No. 1,015,474; Jan. 23; Sp. p. 5277; Gaz. vol. 174; p. 904.
Automobile-radiators, &c., Flag-holder attachment for. O. S. Fitzsimons. No. 1,022,360; Apr. 2; Sp. p. 1263; Gaz. vol. 177; p. 203.
Automobile rear-end buffer. M. J. Leclerc and W. Schmitt. No. 1,034,125; July 30; Gaz. vol. 180; p. 1269.
Automobile rear signal. A. B. Stites. No. 1,033,208; July 23; Gaz. vol. 180; p. 933.
Automobile regulating device. C. Lebherz. No. 1,037,937; Sept. 10; Gaz. vol. 182; p. 289.
Automobile robe-rail lock. V. L. De Dontney. No. 1,029,493; June 11; Sp. p. 3086; Gaz. vol. 179; p. 518.
Automobile-robes, overcoats, &c., Locking device for securing. J. S. Thompson. No. 1,042,502; Oct. 29; Gaz. vol. 183; p. 1085.
Automobile safety attachment. T. B. Jeffery. No. 1,026,168; May 14; Sp. p. 2375; Gaz. vol. 178; p. 400.
Automobile sanding device. L. W. Samuels. No. 1,044,919; Nov. 19; Gaz. vol. 184; p. 714.
Automobile-seat. J. B. Zimdars. No. 1,017,488; Feb. 13; Sp. p. 2784; Gaz. vol. 175; p. 470.
Automobile-shield. T. F. Bourne. No. 1,014,366; Jan. 9; Sp. p. 2852; Gaz. vol. 174; p. 471.
Automobile-shield. A. B. Thomas. No. 1,034,534; Aug. 6; Gaz. vol. 181; p. 44.
Automobile shock-absorber. W. L. Schou. No. 1,046,338; Dec. 3; Gaz. vol. 185; p. 188.
Automobile shock-register. C. A. Benoist. No. 1,042,525; Oct. 29; Gaz. vol. 183; p. 1093.
Automobile side curtain. G. W. Scott. No. 1,047,310; Dec. 17; Gaz. vol. 185; p. 597.
Automobile-signal. A. B. Demuth. No. 1,033,305; July 23; Gaz. vol. 180; p. 967.
Automobile signaling device. E. T. Burrowes. No. 1,032,185; July 9; Gaz. vol. 180; p. 502.
Automobile sleigh attachment. B. P. Frazee. No. 1,028,819; June 4; Sp. p. 1613; Gaz. vol. 179; p. 251.
Automobile sleighs, Propeller for. M. A. J. De La Besse. No. 1,032,120; July 9; Gaz. vol. 180; p. 479.
Automobile speedometer-drive. E. R. Draver. No. 1,035,169; Aug. 13; Gaz. vol. 181; p. 287.
Automobile spring-wheel. M. E. Crandall. No. 1,015,006; Jan. 16; Sp. p. 4281; Gaz. vol. 174; p. 719.
Automobile-starter. H. P. Maxim. No. 1,020,106; Mar. 12; Sp. p. 2344; Gaz. vol. 176; p. 401.
Automobile-starter. C. D. Jenney. No. 1,022,087; Apr. 2; Sp. p. 712; Gaz. vol. 177; p. 113.
Automobile-starter. W. B. Speice. No. 1,028,624; June 4; Sp. p. 1214; Gaz. vol. 179; p. 186.
Automobile-starter, Mechanical. G. K. Ewing and C. R. Farley. No. 1,041,054; Oct. 15; Gaz. vol. 183; p. 533.
Automobile starting-cranks, Means for locking. W. J. N. Davis. No. 1,037,601; Sept. 3; Gaz. vol. 182; p. 142.
Automobile starting device. E. R. Brodton. No. 1,024,394; Apr. 23; Sp. p. 5599; Gaz. vol. 177; p. 982.
Automobile starting device. F. Miskovsky. No. 1,047,103; Dec. 10; Gaz. vol. 185; p. 489.
Automobile starting mechanism. A. F. Olds. No. 1,021,624; Mar. 26; Sp. p. 5563; Gaz. vol. 176; p. 999.

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Automobile stay-strap. G. E. Robinson. No. 1,030,539; June 25; Sp. p. 5456; Gaz. vol. 179; p. 958.
Automobile steering device. H. Lemp. No. 1,020,707; Mar. 19; Sp. p. 3629; Gaz. vol. 176; p. 638.
Automobile steering-gear. P. H. Bellmore. No. 1,014,439; Jan. 9; Sp. p. 2993; Gaz. vol. 174; p. 496.
Automobile steering-guide. C. Bugg. No. 1,023,810; Apr. 23; Sp. p. 4336; Gaz. vol. 177; p. 784.
Automobile steering mechanism, Vibration-arrester for. W. R. Warner. No. 1,015,861; Jan. 30; Sp. p. 6093; Gaz. vol. 174; p. 1062.
Automobile steering-post, Adjustable. R. Symmonds, Jr. No. 1,020,376; Mar. 12; Sp. p. 2886; Gaz. vol. 176; p. 489.
Automobile steering-rod, Universal-jointed. J. H. Stull. No. 1,025,215; May 7; Sp. p. 232; Gaz. vol. 178; p. 39.
Automobile steering-wheels, Means for heating. G. E. Smith. No. 1,022,273; Apr. 2; Sp. p. 1090; Gaz. vol. 177; p. 175.
Automobile supporting device. E. M. Ingalls. No. 1,032,607; July 16; Gaz. vol. 180; p. 689.
Automobile suspension device. J. P. Will. No. 1,040,079; Oct. 1; Gaz. vol. 183; p. 136.
Automobile throttle mechanism. C. B. King. No. 1,016,750; Feb. 6; Sp. p. 1152; Gaz. vol. 175; p. 178.
Automobile-top. C. M. Zellers. No. 1,014,553; Jan. 9; Sp. p. 3192; Gaz. vol. 174; p. 532.
Automobile-top. W. T Oder. No. 1,045,428; Nov. 26; Gaz. vol. 184; p. 919.
Automobile-top, Removable. R. W. Eastman. No. 1,032,997; July 16; Gaz. vol. 180; p. 822.
Automobile top-slide. A. E. Smith. No. 1,048,106; Dec. 24; Gaz. vol. 185; p. 898.
Automobile transmission-gearing. G. Dumont. No. 1,032,350; July 9; Gaz. vol. 180; p. 560.
Automobile transmission mechanism. M. H. Grabowsky. No. 1,017,407; Feb. 13; Sp. p. 2602; Gaz. vol. 175; p. 441.
Automobile transmission mechanism. O. B. Hitchcock, A. M. and F. M. Berggren. No. 1,025,804; May 7; Sp. p. 1525; Gaz. vol. 178; p. 241.
Automobile transmission mechanism. E. M. Heylman. No. 1,032,003; July 9; Gaz. vol. 180; p. 441.
Automobile turn-table. A. Dallamore. No. 1,038,309; Sept. 10; Gaz. vol. 182; p. 412.
Automobile variable-speed driving mechanism. H. G. Beguelin. No. 1,033,521; July 23; Gaz. vol. 180; p. 1036.
Automobile vehicle. L. Wolf. No. 1,038,054; Sept. 10; Gaz. vol. 182; p. 328.
Automobile-wheel. P. J. Rivers. No. 1,017,171; Feb. 13; Sp. p. 2097; Gaz. vol. 175; p. 360.
Automobile-wheel. A. R. Wylie and J. G. Wright. No. 1,018,467; Feb. 27; Sp. p. 4937; Gaz. vol. 175; p. 872.
Automobile-wheel. L. J. Graham. No. 1,035,181; Aug. 13; Gaz. vol. 181; p. 291.
Automobile-wheel. H. B. Coats. No. 1,040,511; Oct. 8; Gaz. vol. 183; p. 313.
Automobile-wheel, Adjustable elastic. P. Wilkes. No. 1,044,324; Nov. 12; Gaz. vol. 184; p. 477.
Automobile wheel and axle. C. H. Willard. No. 1,034,378; July 30; Gaz. vol. 180; p. 1358.
Automobile wheel attachment. F. V. Grover. No. 1,038,569; Sept. 17; Gaz. vol. 182; p. 537.
Automobile wheel construction. O. Zachow. No. 1,028,082; May 28; Sp. p. 6571; Gaz. vol. 178; p. 1121.
Automobile-wheel, Pneumatic. O. C. Olney. No. 1,029,625; June 18; Sp. p. 3373; Gaz. vol. 179; p. 600.
Automobile-wheel, Spring-felly. T. F. O'Brien. No. 1,013,949; Jan. 9; Sp. p. 1923; Gaz. vol. 174; p. 327.
Automobile-wheels, Inner tube for. D. W. Harris. No. 1,047,803; Dec. 17; Gaz. vol. 185; p. 769.
Automobile wind-shield. W. A. Pearson. No. 1,032,857; July 16; Gaz. vol. 180; p. 777.
Automobile wind-shield. J. L. Kennedy. No. 1,042,925; Oct. 29; Gaz. vol. 183; p. 1232.
Automobiles, Amusement device for exhibiting. H. L. Curran. No. 1,025,456; May 7; Sp. p. 778; Gaz. vol. 178; p. 122.
Automobiles, Automatic starter and lighter for. W. G. Wordingham. No. 1,031,308; July 2; Gaz. vol. 180; p. 162.
Automobiles, Casing for universal joints for. J. G. Heaslet. No. 1,024,132; Apr. 23; Sp. p. 5089; Gaz. vol. 177; p. 895.
Automobiles, Combined antiskidding and jack attachment for. F. F. Heffernan. No. 1,019,469; Mar. 5; Sp. p. 1065; Gaz. vol. 176; p. 157.
Automobiles, Combined lifting-jack and brake mechanism for. A. Kertész. No. 1,029,301; June 11; Sp. p. 2664; Gaz. vol. 179; p. 451.
Automobiles, Detachable limousine-top for. O. N. McCallister. No. 1,026,358; May 14; Sp. p. 2814; Gaz. vol. 178; p. 466.
Automobiles, Differential gear for. R. I. Fancher. No. 1,028,009; May 28; Sp. p. 6403; Gaz. vol. 178; p. 1098.
Automobiles, Driving-shaft for. A Winton. No. 1,031,222; July 2; Gaz. vol. 180; p. 132.
Automobiles, Electrical equipment for. J. L. Milton. No. 1,015,275; Jan. 16; Sp. p. 4808; Gaz. vol. 174; p. 809.
Automobiles, Folding storm-front for. J. E. Stevenson. No. 1,024,658; Apr. 30; Sp. p. 6298; Gaz. vol. 177; p. 1110.
Automobiles, Friction speed-gear for. W. E. Trufant. No. 1,048,235; Dec. 24; Gaz. vol. 185; p. 941.
Automobiles, Gas controlling and lighting apparatus for. A. G. Black. No. 1,023,004; Apr. 9; Sp. p. 2662; Gaz. vol. 177; p. 454.
Automobiles, Gas-controlling apparatus for. A. G. Black. No. 1,023,003; Apr. 9; Sp. p. 2661; Gaz. vol. 177; p. 454.
Automobiles, Gasolene-gage for. C. E. Miller. No. 1,047,548; Dec. 17; Gaz. vol. 185; p. 679.
Automobiles, Grip-tread and mud-shoe for. C. V. Pugh. No. 1,028,490; June 4; Sp. p. 944; Gaz. vol. 179; p. 141.
Automobiles, Means for attaching air-pumps to. E. W. Fishburn. No. 1,045,272; Nov. 26; Gaz. vol. 184; p. 864.
Automobiles, Mechanism for preventing excessive speeds of. E. Favary. No. 1,029,181; June 11; Sp. p. 2405; Gaz. vol. 179; p. 410.
Automobiles, Oil-indicator for. J. E. Campbell. No. 1,021,824; Apr. 2; Sp. p. 161; Gaz. vol. 177; p. 27.
Automobiles, Pivot-lamp attachment for. A. G. Thomson. No. 1,030,352; June 25; Sp. p. 5001; Gaz. vol. 179; p. 891.
Automobiles, Power-transmission unit for. C. E. Davis. No. 1,024,121; Apr. 23; Sp. p. 5059; Gaz. vol. 177; p. 892.
Automobiles, Radiator-cap for. E. B. Nelson. No. 1,020,437; Mar. 19; Sp. p. 3033; Gaz. vol. 176; p. 549.
Automobiles, Robe-rail for. A. Winton and H. B. Anderson. No. 1,041,549; Oct. 15; Gaz. vol. 183; p. 698.
Automobiles, Safety cranking device for. A. A. Engstrom. No. 1,040,296; Oct. 8; Gaz. vol. 183; p. 239.
Automobiles, Self-starter for. F. G. S. Hewitt. No. 1,030,583; June 25; Sp. p. 5609; Gaz. vol. 179; p. 974.
Automobiles, Shield for transmission-gearing of. A. A. Glenz. No. 1,042,548; Oct. 29; Gaz. vol. 183; p. 1101.
Automobiles, Spring device for starting. A. Markmann and W. Stauter. No. 1,031,134; July 2; Gaz. vol. 180; p. 101.
Automobiles, &c., Steering-wheel for. F. I. Hodge. No. 1,044,387; Nov. 12; Gaz. vol. 184; p. 499.
Automobiles, Supplementary spring attachment and shock-absorber for. J. A. Mauck. No. 1,020,043; Mar. 12; Sp. p. 2207; Gaz. vol. 176; p. 380.
Automobiles, Surface-cooler for. L. Bachten and J. Gallay. No. 1,023,453; Apr. 16; Sp. p. 3625; Gaz. vol. 177; p. 643.
Automotoneer. G. W. Hamilton. No. 1,036,836; Aug. 27; Gaz. vol. 181; p. 929.
Automusical instrument, Electric. T. E. R. Phillips. No. 1,020,155; Mar. 12; Sp. p. 2446; Gaz. vol. 176; p. 416.
Autosled. C. F. Hamel. No. 1,015,019; Jan. 16; Sp. p. 4303; Gaz. vol. 174; p. 724.
Autosleigh. W. H. Halladey. No. 1,039,278; Sept. 24; Gaz. vol. 182; p. 799.
Autotractor "A" frame. P. E. Holt. No. 1,020,283; Mar. 12; Sp. p. 2715; Gaz. vol. 176; p. 460.
Autotruck-body. H. Lohse. No. 1,019,062; Mar. 5; Sp. p. 107; Gaz. vol. 176; p. 20.
Autotruck, Side-dump. G. W. Lally. No. 1,024,636; Apr. 30; Sp. p. 6262; Gaz. vol. 177; p. 1102.
Autotruck, Tilting. H. Mayer. No. 1,045,579; Nov. 26; Gaz vol. 184; p. 973.
Autovehicle dump-box. F. T. Sherman and H. Goetz. No. 1,020,665; Mar. 19; Sp. p. 3536; Gaz. vol. 176; p. 622.
Auxiliary burner for gas-stoves. G. E. Lague. No. 1,040,552; Oct. 8; Gaz. vol. 183; p. 328.
Averages, Instrument for obtaining. L. A. Quivey. No. 1,023,961; Apr. 23; Sp. p. 4707; Gaz. vol. 177; p. 835.
Aviator-protector. F. Rilleau. No. 1,027,764; May 28; Sp. p. 5832; Gaz. vol. 178; p. 1015.
Awl, Machine-. W. F. Lewis. No. 1,024,795; Apr. 30; Sp. p. 6591; Gaz. vol. 177; p. 1159.
Awning. J. Renner. No. 1,018,004; Feb. 20; Sp. p. 3941; Gaz. vol. 175; p. 681.
Awning. A. M. Dauernheim. No. 1,021,508; Mar. 26; Sp. p. 5343; Gaz. vol. 176; p. 962.
Awning. W. M. Bonney. No. 1,028,321; June 4; Sp. p. 562; Gaz. vol. 179; p. 83.
Awning. W. E. Saunders. No. 1,033,198; July 23; Gaz. vol. 180; p. 930.
Awning. C. Richards. No. 1,039,593; Sept. 24; Gaz. vol. 182; p. 908.
Awning and fire-protector, Combined window-. W. W. Guy and O. L. Richards. No. 1,022,939; Apr. 9; Sp. p. 2551; Gaz. vol. 177; p. 432.
Awning-arm. W. P. Price. No. 1,021,330; Mar. 26; Sp. p. 4926; Gaz. vol. 176; p. 900.
Awning-bracket. L. A. Daus. No. 1,017,515; Feb. 13; Sp. p. 2837; Gaz. vol. 175; p. 478.
Awning-fixture. F. O. Berg. No. 1,018,692; Feb. 27; Sp. p. 5475; Gaz. vol. 175; p. 949.
Awning, Folding metallic. E. Sorenson. No. 1,030,493; June 25; Sp. p. 5313; Gaz. vol. 179; p. 941.
Awning, Folding steel. G. E. Osgood. No. 1,039,582; Sept. 24; Gaz. vol. 182; p. 905.
Awning gear-box. J. L. Goodknight. No. 1,044,451; Nov. 12; Gaz. vol. 184; p. 520.

Alphabetical list of inventions—Continued.

Awning-gearing. W. J. O. Astrup. No. 1,048,790; Dec. 31; Gaz. vol. 185; p. 1172.
Awning, Receding. S. C. MacDowney. No. 1,026,045; May 14; Sp. p. 2087; Gaz. vol. 178; p. 357.
Awning-roller support, Intermediate. J. B. Baker. No. 1,020,246; Mar. 12; Sp. p. 2643; Gaz. vol. 176; p. 448.
Awning structure. W. H. Meyst. No. 1,030,421; June 25; Sp. p. 5150; Gaz. vol. 179; p. 916.
Awning, Window-. W. F. Kremin. No. 1,032,008; July 9; Gaz. vol. 180; p. 443.
Awnings and the like, Chain and roller gearing for. D. D. Samaia. No. 1,041,883; Oct. 22; Gaz. vol. 183; p. 850.
Ax. O. Landro. No. 1,034,256; July 30; Gaz. vol. 180; p. 1315.
Ax, Brush-. J. T. Reeves. No. 1,030,429; June 25; Sp. p. 5167; Gaz. vol. 179; p. 919.
Axle. J. L. Walker. No. 1,023,283; Apr. 16; Sp. p. 3299; Gaz. vol. 177; p. 589.
Axle. O. E. Michaud. No. 1,031,080; July 2; Gaz. vol. 180; p. 82.
Axle-box. J. R. Fleming. No. 1,014,214; Jan. 9; Sp. p. 2485; Gaz. vol. 174; p. 418.
Axle-box. G. Parker. No. 1,032,235; July 9; Gaz. vol. 180; p. 520.
Axle-box dust-guard, Car-. H. C. Gamage. No. 1,015,551; Jan. 23; Sp. p. 5426; Gaz. vol. 174; p. 930.
Axle-box lid, Car-. A. C. McCord. No. 1,036,670; Aug. 27; Gaz. vol. 181; p. 875.
Axle-box, Lubricating. J. McLintock. No. 1,023,668; Apr. 16; Sp. p. 4052; Gaz. vol. 177; p. 711.
Axle-box, Railway-car. G. C. Cosmovici. No. 1,040,638; Oct. 8; Gaz. vol. 183; p. 362.
Axle, Car-. P. J. Rivers. No. 1,038,962; Sept. 17; Gaz. vol. 182; p. 674.
Axle-clutch. H. H. Dunlevy. No. 1,047,182; Dec. 17; Gaz. vol. 185; p. 548.
Axle construction. F. P. White. No. 1,044,320; Nov. 12; Gaz. vol. 184; p. 476.
Axle device, Differential-. R. M. Jones. No. 1,015,737; Jan. 23; Sp. p. 5835; Gaz. vol. 174; p. 995.
Axle drive, Front-. R. R. Bell. No. 1,017,128; Feb. 13; Sp. p. 2001; Gaz. vol. 175; p. 344.
Axle for automobiles, Rear. F. C. Miller. No. 1,043,785; Nov. 5; Gaz. vol. 184; p. 259.
Axle for cycles, Spring-. C. R. Mershon and W. E. Redner. No. 1,042,136; Oct. 22; Gaz. vol. 183; p. 933.
Axle for motor-vehicles, Driving-. T. J. Lindsay. No. 1,036,659; Aug. 27; Gaz. vol. 181; p. 871.
Axle-forming apparatus. D. W. Stroup. No. 1,024,532; Apr. 30; Sp. p. 5997; Gaz. vol. 177; p. 1067.
Axle-leveling device. T. J. Baldwin. No. 1,035,843; Aug. 20; Gaz. vol. 181; p. 555.
Axle-lubricator. F. P. White. No. 1,044,319; Nov. 12; Gaz. vol. 184; p. 476.
Axle-mounting, Antifriction. C. Paridy. No. 1,047,281; Dec. 17; Gaz. vol. 185; p. 586.
Axle, Reinforced. G. C. Thayer. No. 1,019,998; Mar. 12; Sp. p. 2119; Gaz. vol. 176; p. 365.
Axle-spindle. J. Young and W. L. Baugh. No. 1,045,352; Nov. 26; Gaz. vol. 184; p. 892.
Axle-spindle lubricator, Vehicle. A. L. Ramsey. No. 1,024,146; Apr. 23; Sp. p. 5119; Gaz. vol. 177; p. 900.
Axle structure, Worm-drive. T. J. Lindsay. No. 1,036,660; Aug. 27; Gaz. vol. 181; p. 871.
Axle, Vehicle-. E. E. Arnold. No. 1,035,404; Aug. 13; Gaz. vol. 181; p. 371.
Axle, Vehicle-. C. H. Taylor. No. 1,048,230; Dec. 24; Gaz. vol. 185; p. 940.
Axles and shafts, Lubricating. J. Aden. No. 1,041,941; Oct. 22; Gaz. vol. 183; p. 869.
Axles, Apparatus employed in the manufacture of. W. J. Johnston. No. 1,047,815; Dec. 17; Gaz. vol. 185; p. 773.
Axles, Apparatus for the manufacture of. C. Werckmeister. No. 1,015,412; Jan. 23; Sp. p. 5132; Gaz. vol. 174; p. 882.
Axles, Manufacture of railway-. J. M. Hansen. No. 1,041,999; Oct 22; Gaz. vol. 183; p. 888.
Axles, Means for attaching safety-wheels to car-. J. T. Andrew. No. 1,043,559; Nov. 5; Gaz. vol. 184; p. 184.
Axles, Means for transmitting power from railway-car. W. T. Martersteck. No. 1,024,518; Apr. 30; Sp. p. 5960; Gaz. vol. 177; p. 1062.
Axles, Resilient cushion for rear. J. Garlick. No. 1,016,326; Feb. 6; Sp. p. 206; Gaz. vol. 175; p. 31.
Azo dye. A. Zart. No. 1,032,797; July 16; Gaz. vol. 180; p. 756.
β-anthraquinonyl-urea-chlorid and making same, Pure. A. Schmidt and G. Kränzlein. No. 1,038,003; Sept. 10; Gaz. vol. 182; p. 311.
β γ dimethylbutadiene 1.3, Producing. L. P. Kyriakides and R. B. Earle. No. 1,033,328; July 23; Gaz. vol. 180; p. 974.
Baby-carrier. C. B. Averill. No. 1,039,009; Sept. 17; Gaz. vol. 182; p. 689.
Baby-tender. J. L. Ruble and J. A. Dumas. No. 1,032,947; July 16; Gaz. vol. 180; p. 805.
Baby-walker. C. A. Kohl. No. 1,048,080; Dec. 24; Gaz. vol. 185; p. 890.
Back-band hook. J. H. Estes. No. 1,023,999; Apr. 23; Sp. p. 4779; Gaz. vol. 177; p. 848.
Back-pedaling brake. O. Schlick. No. 1,037,057; Aug. 27; Gaz. vol. 181; p. 1003.
Back-pedaling brake, Free-wheel. F. Goebel. No. 1,023,076; Apr. 9; Sp. p. 2813; Gaz. vol. 177; p. 479.
Back-rest and wind-shield, Combined. I. E. Palmer. No. 1,022,696; Apr. 9; Sp. p. 2012; Gaz. vol. 177; p. 348.
Back-rest, luggage-carrier, and handle-bar, Combined. H. Conboy. No. 1,033,156; July 23; Gaz. vol. 180; p. 915.
Back-rest, Portable. J. A. Freeman. No. 1,030,511; June 25; Sp. p. 5372; Gaz. vol. 179; p. 548.
Backboard. J. B. Horton. No. 1,013,551; Jan. 2; Sp. p. 1004; Gaz. vol. 174; p. 161.
Bag: *See* Animal-breeder's bag; Biffle-bag; Clothes-pin bag; Feed-bag; Fruit-picker's bag; Fruit-picking bag; Hand-bag; Mail-bag; Nose-bag; Paper bag; Sleeping-bag; Traveling-bag; Venereal bag; Waterproof bag.
Bag. P. J. Goldsmith. No. 1,045,390; Nov. 26; Gaz. vol. 184; p. 904.
Bag-binder. W. M. Jenkins. No. 1,019,049; Mar. 5; Sp. p. 82; Gaz. vol. 176; p. 16.
Bag-catch. K. Oswald and C. Flax. No. 1,026,173; May 14; Sp. p. 2381; Gaz. vol. 178; p. 402.
Bag clasp, Shoulder-. C. B. Davis. No. 1,027,527; May 28; Sp. p. 5352; Gaz. vol. 178; p. 937.
Bag-cleaner. E. L. Buschman. No. 1,038,281; Sept. 10; Gaz. vol. 182; p. 403.
Bag-cleaning machine. N. E. Gardner. No. 1,028,014; May 28; Sp. p. 6412; Gaz. vol. 178; p. 1100.
Bag closure, Mothproof-. J. J. Scheuch. No. 1,028,970; June 11; Sp. p. 1956; Gaz. vol. 179; p. 338.
Bag-fastener. A. C. Fisher. No. 1,013,873; Jan. 9; Sp. p. 1759; Gaz. vol. 174; p. 301.
Bag-fastener. F. A. Fuller. No. 1,014,820; Jan. 16; Sp. p. 3855; Gaz. vol. 174; p. 654.
Bag-fastener. F. A. Fuller. No. 1,020,547; Mar. 19; Sp. p. 3267; Gaz. vol. 176; p. 584.
Bag-fastener. L. B. Prahar. No. 1,023,170; Apr. 16; Sp. p. 3071; Gaz. vol. 177; p. 550.
Bag-fastener. F. A. Fuller. No. 1,024,930; Apr. 30; Sp. p. 6867; Gaz. vol. 177; p. 1206.
Bag-fastener. L. B. Prahar. No. 1,030,789; June 25; Sp. p. 6202; Gaz. vol. 179; p. 1048.
Bag-fastener. M. B. Weinstein. No. 1,032,456; July 16; Gaz. vol. 180; p. 639.
Bag-fastener. F. A. Fuller. No. 1,036,823; Aug. 27; Gaz. vol. 181; p. 924.
Bag-fastener. L. B. Prahar. No. 1,039,189; Sept. 24; Gaz. vol. 182; p. 765.
Bag-fastener. F. B. Waibel. No. 1,043,177; Nov. 5; Gaz. vol. 184; p. 47.
Bag filling and weighing device, Electrically-controlled W. R. Dunn. No. 1,013,380; Jan. 2; Sp. p. 645; Gaz. vol. 174; p. 102.
Bag-filling device. J. Bowen. No. 1,014,998; Jan. 16; Sp. p. 4267; Gaz. vol. 174; p. 716.
Bag-filling machine. J. Broussard. No. 1,014,444; Jan. 9; Sp. p. 3003; Gaz. vol. 174; p. 498.
Bag-filling machine. J. Broussard. No. 1,025,781; May 7; Sp. p. 1474; Gaz. vol. 178; p. 233.
Bag-filling machine. W. A. Joplin. No. 1,037,015; Aug. 27; Gaz. vol. 181; p. 988.
Bag-frame. C. Hiering and A. Fuller. No. 1,024,895; Apr. 30; Sp. p. 6790; Gaz. vol. 177; p. 1193.
Bag-frame. C. Hiering and A. Fuller. No. 1,027,387; May 21; Sp. p. 5074; Gaz. vol. 178; p. 853.
Bag-frame. F. A. Fuller. No. 1,031,435; July 2; Gaz. vol. 180; p. 205.
Bag-frame. C. Hiering and A. Fuller. No. 1,038,749; Sept. 17; Gaz. vol. 182; p. 601.
Bag-frame fastener. H. Tueckmantel. No. 1,032,314; July 9; Gaz. vol. 180; p. 547.
Bag-frame-handle fastening. F. A. Fuller. No. 1,028,203; June 4; Sp. p. 328; Gaz. vol. 179; p. 44.
Bag-frames, Forming. C. Hiering and A. Fuller. No. 1,049,302; Dec. 31; Gaz. vol. 185; p. 1346.
Bag-frames, Holding-catch for. W. A. Lotz. No. 1,032,010; July 9; Gaz. vol. 180; p. 444.
Bag handle, Textile-. F. P. Curran. No. 1,020,639; Mar. 19; Sp. p. 3478; Gaz. vol. 176; p. 614.
Bag-holder. W. H. Iverson and O. E. Rooth. No. 1,014,225; Jan. 9; Sp. p. 2514; Gaz. vol. 174; p. 422.
Bag-holder. T. J. Rowley and R. M. France. No. 1,015,211; Jan. 16; Sp. p. 4667; Gaz. vol. 174; p. 788.
Bag-holder. L. Hanson. No. 1,015,621; Jan. 23; Sp. p. 5582; Gaz. vol. 174; p. 956.
Bag-holder. F. Appleby and E. A. Hubbart. No. 1,018,228; Feb. 20; Sp. p. 4428; Gaz. vol. 175; p. 760.
Bag-holder. C. H. Light and C. H. Hutchinson. No. 1,018,671; Feb. 27; Sp. p. 5437; Gaz. vol. 175; p. 943.
Bag-holder. A. Reimer. No. 1,024,360; Apr. 23; Sp. p. 5545; Gaz. vol. 177; p. 972.
Bag-holder. R. E. Gipple. No. 1,025,974; May 14; Sp. p. 1927; Gaz. vol. 178; p. 332.
Bag-holder. A. Dahlstrom. No. 1,027,464; May 28; Sp. p. 5226; Gaz. vol. 178; p. 916.
Bag-holder. S. Fee and O. T. Traiser. No. 1,030,882; July 2; Gaz. vol. 180; p. 12.
Bag-holder. L. A. Dykeman. No. 1,032,820; July 16; Gaz. vol. 180; p. 764.
Bag-holder. O. C. Kirkpatrick. No. 1,037,265; Sept. 3; Gaz. vol. 182; p. 30.

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Bag-holder. A. D. Back. No. 1,038,474; Sept. 10; Gaz. vol. 182; p. 471.
Bag-holder. G. B. Haygood. No. 1,043,592; Nov. 5; Gaz. vol. 184; p. 195.
Bag-holder. F. C. Storrs. No. 1,045,211; Nov. 26; Gaz. vol. 184; p. 844.
Bag-holder. P. M. Gunderson. No. 1,045,281; Nov. 26; Gaz. vol. 184; p. 868.
Bag-holder. L. Feist. No. 1,049,218; Dec. 31; Gaz. vol. 185; p. 1317.
Bag-holder and weighing-scale, Combined. D. E. Millard. No. 1,019,685; Mar. 5; Sp. p. 1481; Gaz. vol. 176; p. 229.
Bag-holding device. W. R. Dunn. No. 1,013,381; Jan. 2; Sp. p. 647; Gaz. vol. 174; p. 102.
Bag-house. A. J. Meier. No. 1,030,477; June 25; Sp. p. 5281; Gaz. vol. 179; p. 937.
Bag-jaw. L. B. Prahar. No. 1,035,902; Aug. 20; Gaz. vol. 181; p. 576.
Bag-jaw fastener. R. L. Prahar. No. 1,025,157; May 7; Sp. p. 97; Gaz. vol. 178; p. 18.
Bag-jaw fastener. R. L. Prahar. No. 1,032,770; July 16; Gaz. vol. 180; p. 748.
Bag-jaw fastener. L. L. Prahar. No. 1,039,188; Sept. 24; Gaz. vol. 182; p. 765.
Bag lock, Hand-. J. Ritter. No. 1,047,569; Dec. 17; Gaz. vol. 185; p. 688.
Bag-looping machine. H. L. Roberts. No. 1,019,186; Mar. 5; Sp. p. 397; Gaz. vol. 176; p. 63.
Bag-rack. J. E. James. No. 1,018,619; Feb. 27; Sp. p. 5330; Gaz. vol. 175; p. 925.
Bag-stringing machine. J. T. Dalton. No. 1,036,973; Aug. 27; Gaz. vol. 181; p. 974.
Bag-support. A. P. Zimmerman. No. 1,028,520; June 4; Sp. p. 1003; Gaz. vol. 179; p. 152.
Bag-turning machine. J. Ogg. No. 1,042,367; Oct. 22; Gaz. vol. 183; p. 1008.
Bag-turning machine. L. C. Coulter and F. Powell. No. 1,046,561; Dec. 10; Gaz. vol. 185; p. 306.
Bags, Attachment for the bottoms of hand-. M. Campe. No. 1,042,530; Oct. 29; Gaz. vol. 183; p. 1095.
Bags, grips, valises, and the like, Attachment for. W. G. Williams. No. 1,028,168; June 4; Sp. p. 256; Gaz. vol. 179; p. 31.
Bagging-machine. A. M. Bates. No. 1,017,369; Feb. 13; Sp. p. 2513; Gaz. vol. 175; p. 426.
Bagasse-drying apparatus. J. C. F. Lafeuille. No. 1,023,157; Apr. 16; Sp. p. 3038; Gaz. vol. 177; p. 545.
Baggage-carrying attachment. W. J. Batchelor. No. 1,028,178; June 4; Sp. p. 278; Gaz. vol. 179; p. 35.
Baggage, Hand-. S. J. Ross. No. 1,041,170; Oct. 15; Gaz. vol. 183; p. 573.
Bail and box-cover fastener, Combined. H. S. Hofen. No. 1,045,846; Dec. 3; Gaz. vol. 185; p. 18.
Bail for paint-buckets and the like. A. G. Emery. No. 1,024,841; Apr. 30; Sp. p. 6681; Gaz. vol. 177; p. 1175.
Bail, Pot and kettle. W. Johnson. No. 1,026,093; May 14; Sp. p. 2225; Gaz. vol. 178; p. 373.
Bails of vessels, Eyelet for engaging the. R. W. Goodpasture. No. 1,039,271; Sept. 24; Gaz. vol. 182; p. 796.
Bails, Securing sockets to. C. G. Swenson. No. 1,035,655; Aug. 13; Gaz. vol. 181; p. 455.
Bailing-machine. E. E. Euchenhofer. No. 1,046,453; Dec. 10; Gaz. vol. 185; p. 266.
Bait, Artificial. F. A. Staples. No. 1,019,926; Mar. 12; Sp. p. 1978; Gaz. vol. 176; p. 342.
Bait, Artificial. F. W. Breder and J. H. Loyd. (Reissue.) No. 13,499; Dec. 24; Gaz. vol. 185; p. 1024.
Bait, Composition fish-. O. H. Mack and W. S. Ferguson. No. 1,045,716; Nov. 26; Gaz. vol. 184; p. 1023.
Bait, Fish-. J. Nordlund. No. 1,021,699; Mar. 26; Sp. p. 5691; Gaz. vol. 176; p. 1025.
Bait holder, Live-. A. R. Gibson. No. 1,025,695; May 7; Sp. p. 1300; Gaz. vol. 178; p. 202.
Bake-pan. L. Steitler. No. 1,021,640; Mar. 26; Sp. p. 5593; Gaz. vol. 176; p. 1005.
Bakeries or the like, Conveying and discharging device for use in. A. Lutze. No. 1,028,762; June 4; Sp. p. 1497; Gaz. vol. 179; p. 232.
Baker's drip-pan. C. Fulde. No. 1,025,971; May 14; Sp. p. 1923; Gaz. vol. 178; p. 331.
Baker's pan. E. F. and H. A. Lockwood. No. 1,047,256; Dec. 17; Gaz. vol. 185; p. 575.
Baker's peel. H. L. Schroeder. No. 1,017,177; Feb. 13; Sp. p. 2107; Gaz. vol. 175; p. 361.
Baker's peel. F. A. Hanel. No. 1,026,034; May 14; Sp. p. 2069; Gaz. vol. 178; p. 354.
Baking. W. C. Horner. No. 1,044,179; Nov. 12; Gaz. vol. 184; p. 427.
Baking apparatus. O. C. Nuubson. No. 1,031,085; July 2; Gaz. vol. 180; p. 84.
Baking-machine. J. H. Carpenter and E. O. Hoffman. No. 1,014,375; Jan. 9; Sp. p. 2869; Gaz. vol. 174; p. 475.
Baking-pan. R. S. Woodworth. No. 1,029,483; June 11; Sp. p. 3071; Gaz. vol. 179; p. 515.
Baking-pan. W. Matthiessen. No. 1,037,161; Aug. 27; Gaz. vol. 181; p. 1037.
Baking-powder. D. Beatty. No. 1,034,677; Aug. 6; Gaz. vol. 181; p. 91.
Baking-powder, Mixture suitable for. R. Grüter. No. 1,024,330; Apr. 23; Sp. p. 5495; Gaz. vol. 177; p. 963.
Baking utensil. C. and J. P. Klossner. No. 1,017,561; Feb. 13; Sp. p. 2916; Gaz. vol. 175; p. 493.
Baking wafers and the like, Machine for. I. Z. Israel. No. 1,016,749; Feb. 6; Sp. p. 1149; Gaz. vol. 175; p. 178.
Balance. R. F. Chatillon. No. 1,017,137; Feb. 13; Sp. p. 2025; Gaz. vol. 175; p. 348.
Balance. G. and G. G. Voland. No. 1,041,383; Oct. 15; Gaz. vol. 183; p. 644.
Balance, Aerostructural. R. M. Palmer. No. 1,039,181; Sept. 24; Gaz. vol. 182; p. 762.
Balance-wheel. M. and W. Sporleder. No. 1,028,794; June 4; Sp. p. 1557; Gaz. vol. 179; p. 243.
Balance with sliding weights, Automatic. G. Darmstädter. No. 1,024,881; Apr. 30; Sp. p. 6758; Gaz. vol. 177; p. 1189.
Balancing device. J. W. Stoker. No. 1,021,276; Mar. 26; Sp. p. 4825; Gaz. vol. 176; p. 880.
Balancing of rotatable bodies, Apparatus for the. J. F. Metten. No. 1,047,677; Dec. 17; Gaz. vol. 185; p. 726.
Balcony, Knockdown. E. T. Edmonston. No. 1,049,064; Dec. 31; Gaz. vol. 185; p. 1266.
Bale-breaker, automatic feeder, and opener, Combined. J. C. Potter. No. 1,015,764; Jan. 23; Sp. p. 5889; Gaz. vol. 174; p. 1004.
Bale-handling apparatus. A. Brunelle. No. 1,020,683; Mar. 19; Sp. p. 3569; Gaz. vol. 176; p. 628.
Bale-tie. D. W. Turk. No. 1,019,562; Mar. 5; Sp. p. 1259; Gaz. vol. 176; p. 188.
Bale-tie-forming machine. A. T. Showalter. No. 1,046,661; Dec. 10; Gaz. vol. 185; p. 340.
Bale-tie loops, Machine for making wire-. R. J. Darnell. No. 1,048,049; Dec. 24; Gaz. vol. 185; p. 879.
Bale-tie machines, Tension appliance for. J. W. Miller. No. 1,029,078; June 11; Sp. p. 2179; Gaz. vol. 179; p. 375.
Bale-ties, Machine for bending the cross-heads and eyes of wire. B. von Bültzingslöwen. No. 1,039,594; Oct. 1; Gaz. vol. 183; p. 75.
Bale-tying mechanism. E. R. Koontz. No. 1,015,327; Jan. 23; Sp. p. 4942; Gaz. vol. 174; p. 855.
Baler. B. T. Brown. No. 1,027,393; May 21; Sp. p. 5085; Gaz. vol. 178; p. 855.
Baler, Hay-. G. Heidgerken. No. 1,035,585; Aug. 13; Gaz. vol. 181; p. 431.
Baler, Paper-. C. Schick. No. 1,028,396; June 4; Sp. p. 733; Gaz. vol. 179; p. 110.
Baler, Paper-. A. E. Beall. No. 1,039,244; Sept. 24; Gaz. vol. 182; p. 786.
Baling and compressing apparatus, Combined. T. J. Smith. No. 1,022,709; Apr. 9; Sp. p. 2051; Gaz. vol. 177; p. 354.
Baling-machine. O. M. Bryan. No. 1,017,202; Feb. 13; Sp. p. 2165; Gaz. vol. 175; p. 370.
Baling-machine, Automatic. R. A. Collins. No. 1,040,278; Oct. 8; Gaz. vol. 183; p. 233.
Baling machine, Self-. R. B. Bryan. No. 1,043,041; Oct. 29; Gaz. vol. 183; p. 1273.
Baling paper and the like cuttings, Apparatus for. A. Paal. No. 1,040,396; Oct. 8; Gaz. vol. 183; p. 274.
Baling-press. L. Trabue. No. 1,014,615; Jan. 9; Sp. p. 3338; Gaz. vol. 174; p. 554.
Baling-press. J. W. Burkett. No. 1,017,133; Feb. 13; Sp. p. 2012; Gaz. vol. 175; p. 346.
Baling-press. B. C. Poston. No. 1,017,168; Feb. 13; Sp. p. 2083; Gaz. vol. 175; p. 358.
Baling-press. F. L. White. No. 1,018,284; Feb. 20; Sp. p. 4530; Gaz. vol. 175; p. 779.
Baling-press. S. P. Foster. No. 1,019,626; Mar. 5; Sp. p. 1373; Gaz. vol. 176; p. 209.
Baling-press. W. Splittgerber. No. 1,020,626; Mar. 19; Sp. p. 3449; Gaz. vol. 176; p. 610.
Baling-press. J. D. McKenzie. No. 1,022,035; Apr. 2; Sp. p. 604; Gaz. vol. 177; p. 96.
Baling-press. M. C. Nixon. No. 1,022,393; Apr. 2; Sp. p. 1326; Gaz. vol. 177; p. 215.
Baling-press. M. C. Nixon. No. 1,022,394; Apr. 2; Sp. p. 1328; Gaz. vol. 177; p. 216.
Baling-press. A. Wickey. No. 1,025,865; May 7; Sp. p. 1245; Gaz. vol. 178; p. 192.
Baling-press. J. A. Sharp and R. B. Johnston. No. 1,027,360; May 21; Sp. p. 5008; Gaz. vol. 178; p. 844.
Baling-press. L. Trabue. No. 1,028,404; June 4; Sp. p. 749; Gaz. vol. 179; p. 113.
Baling-press. F. B. Cramer. No. 1,030,648; June 25; Sp. p. 5833; Gaz. vol. 179; p. 999.
Baling-press. A. Heim. No. 1,031,444; July 2; Gaz. vol. 180; p. 207.
Baling-press. G. Welger. No. 1,031,603; July 2; Gaz. vol. 180; p. 261.
Baling-press. W. S. Livengood. No. 1,032,616; July 16; Gaz. vol. 180; p. 693.
Baling-press. J. H. Shaw. No. 1,032,783; July 16; Gaz. vol. 180; p. 752.
Baling-press. S. Saddlemire. No. 1,033,829; July 30; Gaz. vol. 180; p. 1164.
Baling-press. H. M. Tallman. No. 1,035,263; Aug. 13; Gaz. vol. 181; p. 319.

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Baling-press. G. Wenzelmann. No. 1,038,248; Sept. 10; Gaz. vol. 182; p. 392.
Baling-press. J. M. Wilson. No. 1,038,255; Sept. 10; Gaz. vol. 182; p. 395.
Baling-press. A. L. Lamar. No. 1,038,904; Sept. 17; Gaz. vol. 182; p. 655.
Baling-press. D. E. Dickinson. No. 1,040,169; Oct. 1; Gaz. vol. 183; p. 167.
Baling-press. M. F. Slover and J. R. Harter. No. 1,041,521; Oct. 15; Gaz. vol. 183; p. 690.
Baling-press. J. C. Fulkerson and T. G. White. No. 1,042,544; Oct. 29; Gaz. vol. 183; p. 1100.
Baling-press. F. Shirtliff. No. 1,043,157; Nov. 5; Gaz. vol. 184; p. 39.
Baling-press. M. C. Nixon. No. 1,043,345; Nov. 5; Gaz. vol. 184; p. 108.
Baling-press. Z. S. Randleman. No. 1,045,184; Nov. 26; Gaz. vol. 184; p. 833.
Baling press, Hay-. T. E. Turner and O. J. Heath. No. 1,029,156; June 11; Sp. p. 2358; Gaz. vol. 179; p. 402.
Baling press, Hay-. W. P. Wilson. No. 1,029,780; June 18; Sp. p. 3715; Gaz. vol. 179; p. 654.
Baling-press, Self-tying. C. Gobell. No. 1,030,398; June 25; Sp. p. 5096; Gaz. vol. 179; p. 908.
Baling-presses, Automatic cutting and tying device for. J. T. Stephens, Sr. No. 1,046,891; Dec. 10; Gaz. vol. 185; p. 419.
Baling-presses, Block-dropping mechanism for. L. Trabue. No. 1,013,628; Jan. 2; Sp. p. 1167; Gaz. vol. 174; p. 185.
Baling-presses, Feeder for. N. W. Young. No. 1,027,966; May 28; Sp. p. 6314; Gaz. vol. 178; p. 1084.
Baling-presses, Measuring-wheel for. H. B. Sperry. No. 1,028,974; June 11; Sp. p. 1965; Gaz. vol. 179; p. 339.
Baling-presses, Plunger for. G. W. Cameron. No. 1,048,650; Dec. 31; Gaz. vol. 185; p. 1122.
Baling-presses, Reversible feed-hopper for. G. A. Ryerson. No. 1,021,730; Mar. 26; Sp. p. 5759; Gaz. vol. 176; p. 1034.
Baling-presses, Sweep-machine for. E. H. Sholar. No. 1,046,875; Dec. 10; Gaz. vol. 185; p. 414.
Ball: *See* Bowling-ball; Catnip-ball; Darning-ball; Golf-ball; Motor-propelled ball; Practice-ball.
Ball. F. E. Chester. No. 1,023,504; Apr. 16; Sp. p. 3725; Gaz. vol. 177; p. 659.
Ball. H. R. Wemple. No. 1,023,904; Apr. 23; Sp. p. 4577; Gaz. vol. 177; p. 816.
Ball. L. Wermeling. No. 1,047,354; Dec. 17; Gaz. vol. 185; p. 613.
Ball-cages, Forming ball-holders for. M. Gohlke. No. 1,031,844; July 9; Gaz. vol. 180; p. 388.
Ball curver, Base-. R. W. Jones. No. 1,025,748; May 7; Sp. p. 1413; Gaz. vol. 178; p. 221.
Ball-marking machine, Golf-. W. B. Supplee. No. 1,045,340; Nov. 26; Gaz. vol. 184; p. 888.
Ball-mill. H. Ostwald. No. 1,043,349; Nov. 5; Gaz. vol. 184; p. 109.
Ball-mill, Compound. R. Beneke. No. 1,017,946; Feb. 20; Sp. p. 3814; Gaz. vol. 175; p. 662.
Ball mold, Golf-. E. W. Buckau. No. 1,041,958; Oct. 22; Gaz. vol. 183; p. 874.
Ball-player, Manikin. G. B. Stone. No. 1,036,024; Aug. 20; Gaz. vol. 181; p. 615.
Ball players, &c., Sliding-pad for base-. F. C. Clarke. No. 1,044,494; Nov. 19; Gaz. vol. 184; p. 565.
Ball-retainer. J. L. Straub. No. 1,017,480; Feb. 13; Sp. p. 2770; Gaz. vol. 175; p. 467.
Ball-retainer. C. E. Colegrove. No. 1,036,569; Aug. 27; Gaz. vol. 181; p. 840.
Ball-retainers, Manufacturing. D. F. Chambers. No. 1,040,274; Oct. 8; Gaz. vol. 183; p. 231.
Ball-returning device. F. H. Wood. No. 1,030,558; June 25; Sp. p. 5499; Gaz. vol. 179; p. 964.
Ball scoring device, Base-. W. P. Carruthers. No. 1,038,289; Sept. 10; Gaz. vol. 182; p. 406.
Balls, Machine for winding base-. E. A. Miller. No 1,047,678; Dec. 17; Gaz. vol. 185; p. 726.
Balls, Making base-. F. H. Perry. No. 1,048,092; Dec. 24; Gaz. vol. 185; p. 894.
Balls, Making hollow metallic. J. W. Schatz. No. 1,039,673; Sept. 24; Gaz. vol. 182; p. 935.
Balls, Making hollow metallic. J. W. Schatz. No. 1,039,674; Sept. 24; Gaz. vol. 182; p. 936.
Balls, Manufacturing lawn-tennis and like. J. Turner and A. Buxton. No. 1,017,482; Feb. 13; Sp. p. 2773; Gaz. vol. 175; p. 468.
Balling-furnace. M. Sellers and H. M. Nicholls. No. 1,029,234; June 11; Sp. p. 2520; Gaz. vol. 179; p. 428.
Balling scrap. M. Sellers and H. M. Nicholls. No. 1,029,235; June 11; Sp. p. 2527; Gaz. vol. 179; p. 428.
Ballast-dresser. T. S. Cafferty and J. F. Markle. No. 1,046,262; Dec. 3; Gaz. vol. 185; p. 161.
Ballast-injecting apparatus. J. A. Royal. No. 1,041,878; Oct. 22; Gaz. vol. 183; p. 848.
Ballast-tamping machine. B. W. Bissell. No. 1,048,797; Dec. 31; Gaz. vol. 185; p. 1174.
Ballast-unloader. C. B. King and C. B. Weston. No. 1,043,844; Nov. 12; Gaz. vol. 184; p. 312.
Balloon attachment. A. F. Kraftsik. No. 1,017,767; Feb. 20; Sp. p. 3344; Gaz. vol. 175; p. 599.
Balloon, Automatically-deformable. A. Ranza. No. 1,031,148; July 2; Gaz. vol. 180; p. 106.
Balloon, Dirigible. A. M. Waxler. No. 1,025,662; May 7; Sp. p. 1237; Gaz. vol. 178; p. 191.
Balloons, airships, &c., Shelter for dirigible. R. Alexander-Katz. No. 1,036,532; Aug. 27; Gaz. vol. 181; p. 827.
Ballot-box. M. A. Heinrich. No. 1,047,631; Dec. 17; Gaz. vol. 185; p. 709.
Banana pack-saddle. A. E. Robbins. No. 1,040,016; Oct. 1; Gaz. vol. 183; p. 114.
Band-brake. C. F. Smith. No. 1,036,360; Aug. 20; Gaz. vol. 181; p. 736.
Band-brake. G. M. Baker. No. 1,038,478; Sept. 10; Gaz. vol. 182; p. 472.
Band-brake. N. Hardin. No. 1,039,937; Oct. 1; Gaz. vol. 183; p. 89.
Band-cutter and feeder. A. Dodd. No. 1,030,057; June 18; Sp. p. 4346; Gaz. vol. 179; p. 750.
Band-cutter and feeder. J. H. Jensen. No. 1,033,901; July 30; Gaz. vol. 180; p. 1191.
Band-cutter and feeder. J. D. Hawes. No. 1,038,747; Sept. 17; Gaz. vol. 182; p. 600.
Band-cutter and feeder. F. J. Wood. No. 1,044,329; Nov. 12; Gaz. vol. 184; p. 479.
Band-cutters and feeders, Bundle-carrier for. G. F. Merkel. No. 1,032,691; July 16; Gaz. vol. 180; p. 721.
Band maker, Bias-. F. C. Althen. No. 1,018,227; Feb. 20; Sp. p. 4427; Gaz. vol. 175; p. 760.
Bandage. O. L. McMahon. No. 1,019,985; Mar. 12; Sp. p. 2090; Gaz. vol. 176; p. 360.
Bandage, Hernial. E. Abadie-Léotard. No. 1,035,764; Aug. 13; Gaz. vol. 181; p. 491.
Bandage-roll cutter. D. O. Hallock. No. 1,031,924; July 9; Gaz. vol. 180; p. 416.
Bandage-rolls, gauze, and cotton-wool, Receptacle for. E. C. Yuste and F. Del Collado. No. 1,013,715; Jan. 2; Sp. p. 1382; Gaz. vol. 174; p. 216.
Bandeau and hat fastener. C. E. and M. Thornton. No. 1,037,806; Sept. 3; Gaz. vol. 182; p. 209.
Banjo. J. N. Gladding. No. 1,046,770; Dec. 10; Gaz. vol. 185; p. 380.
Bank. M. G. Standley. No. 1,036,366; Aug. 20; Gaz. vol. 181; p. 738.
Bank, Coin savings-. R. T. Parker. No. 1,024,222; Apr. 23; Sp. p. 5293; Gaz. vol. 177; p. 927.
Bank-note cutting and printing machine. R. H. and W. J. Arney. No. 1,036,774; Aug. 27; Gaz. vol. 181; p. 908.
Bank-notes, cards, &c., Apparatus for separating and counting. C. W. Twistleton-Wykeham-Fiennes and M. Barr. No. 1,034,351; July 30; Gaz. vol. 180; p. 1348.
Bank, Registering savings-. E. E. Matson. No. 1,015,762; Jan. 23; Sp. p. 5885; Gaz. vol. 174; p. 1002.
Bar: *See* Angle-bar; Boring-bar; Clinker-bar; Concrete-reinforcing bar; Draw-bar; Evener-bar; Furnace fire-bar; Gage-bar; Grate-bar; Handle-bar; Insulating tie-bar; Mining-machine bar; Mowing-machine cutter-bar; Phonograph style-bar; Picture-suspension bar; Piling-bar; Pneumatic-player tracker-bar; Push-bar; Reinforcing and spacing bar; Rolling-mill guide-rest bar; Sash-bar; Skylight-bar; Splice-bar; Stop-bar; Tracker-bar; Type-bar; Vaulting-bar.
Bar bending and twisting machine. F. R. Rogers. No. 1,029,946; June 18; Sp. p. 4101; Gaz. vol. 179; p. 712.
Bar-turning tool. J. C. Potter. No. 1,028,605; June 4; Sp. p. 1176; Gaz. vol. 179; p. 180.
Barber's chair. J. H. Wertz and F. Pomernacki. No. 1,027,364; May 21; Sp. p. 5020; Gaz. vol. 178; p. 846.
Barber's pole, Illuminated enameled-metal. F. De Palma. No. 1,034,211; July 30; Gaz. vol. 180; p. 1298.
Barge, Combination deep-water-vessel-carrying. W. H. Curtis. No. 1,025,514; May 7; Sp. p. 904; Gaz. vol. 178; p. 142.
Barge, Unloading-. N. Ross. No. 1,040,421; Oct. 8; Gaz. vol. 183; p. 282.
Barium oxid. W. Kirchner. No. 1,047,077; Dec. 10; Gaz. vol. 185; p. 480.
Barium oxid from barium carbonate, Obtaining porous and fairly-pure. K. Bornemann. No. 1,041,583; Oct. 15; Gaz. vol. 183; p. 708.
Barium sulfate, Making precipitated. J. P. Walker. No. 1,040,594; Oct. 8; Gaz. vol. 183; p. 344.
Bark from logs, Machine for removing. F. Libert. No. 1,015,898; Jan. 30; Sp. p. 6173; Gaz. vol. 174; p. 1077.
Bark-removing machine. H. L. Drake. No. 1,017,655; Feb. 20; Sp. p. 3100; Gaz. vol. 175; p. 560.
Bark-rossing machine. F. R. Hawley. No. 1,043,829; Nov. 12; Gaz. vol. 184; p. 306.
Bark-stripping machine. J. Kokko. No. 1,024,137; Apr. 23; Sp. p. 5099; Gaz. vol. 177; p. 896.
Barking machine, Wood-. N. K. F. Hanson. No. 1,024,198; Apr. 23; Sp. p. 5239; Gaz. vol. 177; p. 918.
Barking machine, Wood-. B. J. La Moine and J. P. Shafer. No. 1,043,608; Nov. 5; Gaz. vol. 184; p. 200.
Barking willow-twigs, Apparatus for. W. Gesche. No. 1,018,659; Feb. 27; Sp. p. 5416; Gaz. vol. 175; p. 938.
Barometer. L. Hammond. No. 1,015,886; Jan. 30; Sp. p. 6153; Gaz. vol. 174; p. 1072.
Barrel. F. H. Sabourin. No. 1,014,524; Jan. 9; Sp. p. 3147; Gaz. vol. 174; p. 523.
Barrel. C. I. Hoeffel. No. 1,039,058; Sept. 17; Gaz. vol. 182; p. 703.

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Barrel, Bilge-. J. H. La Fave. No. 1,040,358; Oct. 8; Gaz. vol. 183; p. 260.
Barrel-bodies, Apparatus for forming metallic. L. Bauroth. No. 1,041,406; Oct. 15; Gaz. vol. 183; p. 652.
Barrel-bodies, Forming metallic. L. Bauroth. No. 1,039,885; Oct. 1; Gaz. vol. 183; p. 72.
Barrel, Collapsible. J. W. Sutherland. No. 1,037,684; Sept. 3; Gaz. vol. 182; p. 171.
Barrel-cover. A. F. Naylor. No. 1,028,057; May 28; Sp. p. 6505; Gaz. vol. 178; p. 1113.
Barrel-forming machine. L. Bauroth. No. 1,039,886; Oct. 1; Gaz. vol. 183; p. 72.
Barrel-forming machine. R. D. Kinyon. No. 1,044,664; Nov. 19; Gaz. vol. 184; p. 625.
Barrel-forming machine. J. Cunning. No. 1,046,445; Dec. 10; Gaz. vol. 185; p. 263.
Barrel-forming machinery. L. Bauroth. No. 1,039,887; Oct. 1; Gaz. vol. 183; p. 73.
Barrel-head. J. T. Gilmer. No. 1,034,102; July 30; Gaz. vol. 180; p. 1262.
Barrel-head fastener. S. Bartmann. No. 1,017,127; Feb. 13; Sp. p. 2000; Gaz. vol. 175; p. 344.
Barrel-head fastener. M. Alexander. No. 1,017,365; Feb. 13; Sp. p. 2508; Gaz. vol. 175; p. 425.
Barrel-heater. R. Dronia. No. 1,037,137; Aug. 27; Gaz. vol. 181; p. 1029.
Barrel heating and drying apparatus. T. Johnson. No. 1,031,122; July 2; Gaz. vol. 180; p. 97.
Barrel-leveling machine. T. Johnson. No. 1,014,756; Jan. 16; Sp. p. 3703; Gaz. vol. 174; p. 632.
Barrel-lock. A. C. Wright. No. 1,017,487; Feb. 13; Sp. p. 2783; Gaz. vol. 175; p. 469.
Barrel, Metallic. J. H. George. (Reissue.) No. 13,414; May 7; Sp. p. 1895; Gaz. vol. 178; p. 291.
Barrel or receptacle. J. H. Killion. No. 1,047,652; Dec. 17; Gaz. vol. 185; p. 717.
Barrel-partition. R. P. Brown. No. 1,025,507; May 7; Sp. p. 894; Gaz. vol. 178; p. 139.
Barrel-rack. A. N. Stavely. No. 1,019,550; Mar. 5; Sp. p. 1230; Gaz. vol. 176; p. 184.
Barrel-shells, Apparatus for making metal bilged. G. E. Nuttinger, Jr. No. 1,042,946; Oct. 29; Gaz. vol. 183; p. 1238.
Barrel-shells, Shaping sheet metal into bilged. G. E. Mittinger, Jr. No. 1,042,945; Oct. 29; Gaz. vol. 183; p. 1237.
Barrel soaking and rinsing machine. H. Reininger. No. 1,046,856; Dec. 10; Gaz. vol. 185; p. 407.
Barrel-support. J. W. and C. V. Dyer. No. 1,045,133; Nov. 26; Gaz. vol. 184; p. 816.
Barrels and kegs, Follower for. A. T. Henderson. No. 1,045,287; Nov. 26; Gaz. vol. 184; p. 870.
Barrels and like receptacles, Removable head for. G. W. Staples. No. 1,031,483; July 2; Gaz. vol. 180; p. 222.
Barrels, Means for preventing the charring of portions of whisky-. C. T. Hanna. No. 1,033,692; July 23; Gaz. vol. 180; p. 1092.
Barrette. W. S. Bechtold. No. 1,023,064; Apr. 9; Sp. p. 2792; Gaz. vol. 177; p. 475.
Barrette. M. L. Pritzkow. No. 1,027,668; May 28; Sp. p. 5642; Gaz. vol. 178; p. 984.
Barrette. J. Machate. No. 1,032,353; July 9; Gaz. vol. 180; p. 561.
Base-burner. P. A. Pamplin. No. 1,023,167; Apr. 16; Sp. p. 3058; Gaz. vol. 177; p. 548.
Base-heater. F. K. Learned. No. 1,026,323; May 14; Sp. p. 2722; Gaz. vol. 178; p. 455.
Base-lock for horizontal sectional units. E. G. Sampson. No. 1,036,345; Aug. 20; Gaz. vol. 181; p. 730.
Base-lock for horizontal sectional units. R. G. Bullock. No. 1,036,442; Aug. 20; Gaz. vol. 181; p. 763.
Base-plate. F. S. Parrigin. No. 1,026,962; May 21; Sp. p. 4159; Gaz. vol. 178; p. 709.
Basin. A. Magnuson. No. 1,049,116; Dec. 31; Gaz. vol. 185; p. 1284.
Basins and the like, Waste-operating mechanism for. W. S. Graham. No. 1,048,823; Dec. 31; Gaz. vol. 185; p. 1184.
Basket. T. C. Nelson. No. 1,019,346; Mar. 5; Sp. p. 771; Gaz. vol. 176; p. 118.
Basket. J. N. Keyser and G. Topham. No. 1,020,290; Mar. 12; Sp. p. 2728; Gaz. vol. 176; p. 462.
Basket. E. C. Black. No. 1,047,730; Dec. 17; Gaz. vol. 185; p. 744.
Basket and handle therefor. G. L. Morrison and A. A. Fordon. No. 1,046,321; Dec. 3; Gaz. vol. 185; p. 182.
Basket, Baby-. J. Thaison. No. 1,038,233; Sept. 10; Gaz. vol. 182; p. 386.
Basket, Clothes-. E. J. Adney. No. 1,040,837; Oct. 8; Gaz. vol. 183; p. 426.
Basket, Collapsible wire. L. Poppert. No. 1,027,215; May 21; Sp. p. 4725; Gaz. vol. 178; p. 794.
Basket cover, Peach-. I. W. Peck. No. 1,030,123; June 18; Sp. p. 4465; Gaz. vol. 179; p. 772.
Basket-handle. G. W. Jones. No. 1,033,704; July 23; Gaz. vol. 180; p. 1095.
Basket handle and cover-fastener. J. B. Kenny. No. 1,019,801; Mar. 12; Sp. p. 1714; Gaz. vol. 176; p. 299.
Basket-making device. R. Schanz. No. 1,024,602; Apr. 30; Sp. p. 6181; Gaz. vol. 177; p. 1090.
Basket-making machine. A. M. Taylor. No. 1,040,457; Oct. 8; Gaz. vol. 183; p. 294.
Basket-making machine. A. M. Taylor. No. 1,040,590; Oct. 8; Gaz. vol. 183; p. 342.
Basket-making machines, Twister-head for wire-. V. D. Munger. No. 1,038,629; Sept. 17; Gaz. vol. 182; p. 559.
Basket, Metal. J. Ray. No. 1,046,016; Dec. 3; Gaz. vol. 185; p. 73.
Basket-nailing machine. A. M. Taylor. No. 1,040,456; Oct. 8; Gaz. vol. 183; p. 294.
Basket-rack. W. H. Mussey. No. 1,029,621; June 18; Sp. p. 3366; Gaz. vol. 179; p. 599.
Basket-support. E. L. Fackler. No. 1,036,203; Aug. 20; Gaz. vol. 181; p. 681.
Basket, Wire. R. P. Rodgers. No. 1,037,539; Sept. 3; Gaz. vol. 182; p. 123.
Bast from ramie-stalks and from kindred plants, Obtaining the. M. Einstein. No. 1,043,575; Nov. 5; Gaz. vol. 184; p. 190.
Bat. H. Matson. No. 1,026,990; May 21; Sp. p. 4204; Gaz. vol. 178; p. 718.
Bat-accumulator. G. R. Brown, W. L. and B. Clayton. No. 1,048,289; Dec. 24; Gaz. vol. 185; p. 959.
Bat, Base-ball. G. J. Blahos. No. 1,018,866; Feb. 27; Sp. p. 5849; Gaz. vol. 175; p. 1009.
Bat, Base-ball. J. A. Murphy. No. 1,025,478; May 7; Sp. p. 830; Gaz. vol. 178; p. 130.
Bat-making machine. C. E. T. Scribner. No. 1,020,372; Mar. 12; Sp. p. 2876; Gaz. vol. 176; p. 487.
Bats, Detachable weight for base-ball. D. C. Dinger. No. 1,030,982; July 2; Gaz. vol. 180; p. 46.
Batch-mixer. R. M. Bickley. No. 1,046,248; Dec. 3; Gaz. vol. 185; p. 157.
Bath: *See* Hot-air bath; Medicinal bath; Pickling-bath; Shower-bath.
Bath and toilet cabinet. Combination. W. W. Murphey. No. 1,038,630; Sept. 17; Gaz. vol. 182; p. 560.
Bath apparatus. G. G. Wiggins. No. 1,022,346; Apr. 2; Sp. p. 1237; Gaz. vol. 177; p. 198.
Bath attachment, Shower-. B. Badanes. No. 1,033,225; July 23; Gaz. vol. 180; p. 939
Bath-cabinet. R. Fisher and C. A. Young. No. 1,014,587; Jan. 9; Sp. p. 3256; Gaz. vol. 174; p. 543.
Bath-cabinet. M. W. Guioness. No. 1,035,002; Aug. 6; Gaz. vol. 181; p. 201.
Bath-cabinet. B. D. Knickerbocker. No. 1,035,362; Aug. 13; Gaz. vol. 181; p. 356.
Bath-cabinet, Electric. T. E. Murray. No. 1,048,858; Dec. 31; Gaz. vol. 185; p. 1195.
Bath cabinet, Portable vapor-. J. F. Kruse. No. 1,038,394; Sept. 10; Gaz. vol. 182; p. 441.
Bath-cabinets, Vaporizing and air-heating attachment for. B. J. Dibble. No. 1,016,873; Feb. 6; Sp. p. 1412; Gaz. vol. 175; p. 218.
Bath-cushion. W. C. Trick. No. 1,039,334; Sept. 24; Gaz. vol. 182; p. 817.
Bath device. M. A. Wilson. No. 1,021,346; Mar. 26; Sp. p. 4963; Gaz. vol. 176; p. 906.
Bath-mat, Portable. J. F. Spence. No. 1,016,374; Feb. 6; Sp. p. 302; Gaz. vol. 175; p. 48.
Bath or basin fitting. P. Mueller. No. 1,026,632; May 14; Sp. p. 3375; Gaz. vol. 178; p. 556.
Bath-seat. J. G. Strock. No. 1,017,700; Feb. 20; Sp. p. 3192; Gaz. vol. 175; p. 574.
Bath-trap. P. F. Lyons. No. 1,016,342; Feb. 6; Sp. p. 242; Gaz. vol. 175; p. 37.
Bath-tub. H. W. Fischer. No. 1,047,400; Dec. 17; Gaz. vol. 185; p. 626.
Bath-tub attachment. M. Jefferson. No. 1,040,686; Oct. 8; Gaz. vol. 183; p. 379.
Bath-tub cover. W. W. Christensen. No. 1,045,947; Dec. 3; Gaz. vol. 185; p. 52.
Bath-tub distributing-valve. F. C. Rockwell. No. 1,037,664; Sept. 3; Gaz. vol. 182; p. 164.
Bath-tub extension. H. B. Hiteshew. No. 1,013,162; Jan. 2; Sp. p. 149; Gaz. vol. 174; p. 25.
Bath-tub, Folding. F. H. Russ. No. 1,047,449; Dec. 17; Gaz. vol. 185; p. 643.
Bath-tub foot-rest. F. Forsberg. No. 1,019,775; Mar. 12; Sp. p. 1667; Gaz. vol. 176; p. 290.
Bath-tub head-rest. A. Zukor. No. 1,032,173; July 9; Gaz. vol. 180; p. 498.
Bath-tub, Infant's. L. A. Williams. No. 1,042,515; Oct. 29; Gaz. vol. 183; p. 1090.
Bath-tub sanitary attachment. A. L. Grow. No. 1,024,329; Apr. 23; Sp. p. 5488; Gaz. vol. 177; p. 962.
Bath-tub supply and waste. D. C. Charmois. No. 1,025,683; May 7; Sp. p. 1276; Gaz. vol. 178; p. 198.
Baths, Producing effervescent. L. Sarason and S. Haller. No. 1,041,357; Oct. 15; Gaz. vol. 183; p. 635.
Baths, Production of aerated. A. W. Leuschner. No. 1,034,919; Aug. 6; Gaz. vol. 181; p. 173.
Baths, Receptor for shower-. L. H. Pleins. No. 1,017,167; Feb. 13; Sp. p. 2082; Gaz. vol. 175; p. 358.
Bathing apparatus. A. J. Petter. No. 1,040,238; Oct. 1; Gaz. vol. 183; p. 189.
Bathing-machine. T. J. Donovan. No. 1,025,612; May 7; Sp. p. 1127; Gaz. vol. 178; p. 175.
Bathing-suit. O. Carrabine. No. 1,024,181; Apr. 23; Sp. p. 5190; Gaz. vol. 177; p. 912.

Alphabetical list of inventions—Continued.

Bathing-suit. J. F. Burke. No. 1,041,012; Oct. 15; Gaz. vol. 183; p. 517.
Bathometer. F. H. C. Heyn. No. 1,026,441; May 14; Sp. p. 2980; Gaz. vol. 178; p. 493.
Batteries, Apparatus for controlling the charge of. J. L. Woodbridge. No. 1,033,508; July 23; Gaz. vol. 180; p. 1032.
Batteries, Charging storage. P. Kennedy. No. 1,019,482; Mar. 5; Sp. p. 1100; Gaz. vol. 176; p. 162.
Batteries, Hydrometer for storage. E. W. Smith. No. 1,025,543; May 7; Sp. p. 983; Gaz. vol. 178; p. 152.
Batteries, Means for attaching binding-posts to dry. W. A. Scott. No. 1,021,340; Mar. 26; Sp. p. 4954; Gaz. vol. 176; p. 904.
Batteries, Treating wood for use in secondary. P. Marino. No. 1,023,948; Apr. 23; Sp. p. 4681; Gaz. vol. 177; p. 831.
Battery: *See* Alkaline battery; Electric battery; Galvanic battery; Primary battery; Pyrometer or thermo-battery; Secondary battery; Secondary or storage battery; Sheet-metal battery; Storage battery; Waterproof battery.
Battery. C. F. Burgess and C. Hambuechen. No. 1,032,529; July 16; Gaz. vol. 180; p. 663.
Battery. A. E. Thompson. No. 1,040,055; Oct. 1; Gaz. vol. 183; p. 128.
Battery. W. Petschel. No. 1,045,880; Dec. 3; Gaz. vol. 185; p. 29.
Battery binding-post-attaching means, Dry-. W. A. Scott. No. 1,035,247; Aug. 13; Gaz. vol. 181; p. 313.
Battery-box. H. M. Fisk. No. 1,036,597; Aug. 27; Gaz. vol. 181; p. 850.
Battery case or cabinet. A. S. Campbell. No. 1,041,018; Oct. 15; Gaz. vol. 183; p. 520.
Battery-cell container. T. A. Edison. No. 1,034,003; July 30; Gaz. vol. 180; p. 1227.
Battery-cell, Dry. J. W. Brown. No. 1,033,228; July 23; Gaz. vol. 180; p. 940.
Battery cells, Means for charging storage-. C. W. Bell. No. 1,023,498; Apr. 16; Sp. p. 3716; Gaz. vol. 177; p. 657.
Battery-charge indication. W. E. Holland. No. 1,045,291; Nov. 26; Gaz. vol. 184; p. 871.
Battery-charge indicator. E. Van Wagenen. No. 1,013,465; Jan. 2; Sp. p. 820; Gaz. vol. 174; p. 131.
Battery-charging apparatus. E. A. Halbleib. No. 1,024,448; Apr. 23; Sp. p. 5752; Gaz. vol. 177; p. 1000.
Battery-charging device, Storage-. E. A. Halbleib. No. 1,034,108; July 30; Gaz. vol. 180; p. 1264.
Battery-charging mechanism, Storage-. J. B. Schug. No. 1,013,959; Jan. 9; Sp. p. 1951; Gaz. vol. 174; p. 331.
Battery conductor or support, Storage-. W. Morrison. No. 1,021,997; Apr. 2; Sp. p. 528; Gaz. vol. 177; p. 83.
Battery-connector. J. M. Hall. No. 1,041,464; Oct. 15; Gaz. vol. 183; p. 671.
Battery cover, Electric-. H. J. Brewer. No. 1,026,847; May 21; Sp. p. 3865; Gaz. vol. 178; p. 667.
Battery-current-limiting device. H. M. Beck and C. Ambruster. No. 1,023,490; Apr. 16; Sp. p. 3696; Gaz. vol. 177; p. 654.
Battery element. E. G. Dodge. No. 1,035,325; Aug. 13; Gaz. vol. 181; p. 342.
Battery-element support. C. B. Schoenmehl. No. 1,028,613; June 4; Sp. p. 1195; Gaz. vol. 179; p. 182.
Battery for cleaning tarnished metals. R. H. Galbreath. No. 1,018,355; Feb. 20; Sp. p. 4663; Gaz. vol. 175; p. 802.
Battery grid, Storage-. E. F. Wackwitz. No. 1,044,831; Nov. 19; Gaz. vol. 184; p. 683.
Battery grids, Machine for pasting storage-. F. Engel. No. 1,039,715; Oct. 1; Gaz. vol. 183; p. 15.
Battery-holder. H. A. Stevens. No. 1,023,178; Apr. 16; Sp. p. 3089; Gaz. vol. 177; p. 552.
Battery-plate. E. G. Dodge. No. 1,035,167; Aug. 13; Gaz. vol. 181; p. 286.
Battery-plate. E. G. Dodge. No. 1,045,823; Dec. 3; Gaz. vol. 185; p. 10.
Battery-plates, Making. E. G. Dodge. No. 1,035,326; Aug. 13; Gaz. vol. 181; p. 342.
Battery-plates, Making. E. G. Dodge. No. 1,045,822; Dec. 3; Gaz. vol. 185; p. 9.
Battery plates, Regenerating storage-. M. Deinlein. No. 1,034,887; Aug. 6; Gaz. vol. 181; p. 164.
Battery switch, Magneto-. H. G. Cox. No. 1,033,786; July 30; Gaz. vol. 180; p. 1148.
Battery-terminal. R. M. Newbold. No. 1,048,574; Dec. 31; Gaz. vol. 185; p. 1095.
Battery-testing instrument. C. J. Davidson. No. 1,020,541; Mar. 19; Sp. p. 3251; Gaz. vol. 176; p. 582.
Battery-vault. G. H. Macdonough. No. 1,037,160; Aug. 27; Gaz. vol. 181; p. 1037.
Battery ventilating and cooling system. C. H. Bedell and G. E. Edgar. No. 1,036,063; Aug. 20; Gaz. vol. 181; p. 630.
Battery-wells, Molding. C. F. Massey. No. 1,013,416; Jan. 2; Sp. p. 723; Gaz. vol. 174; p. 114.
Beacon-light. F. G. Attwood. No. 1,015,532; Jan. 23; Sp. p. 5386; Gaz. vol. 174; p. 923.
Beading-machine. J. H. Nangle. No. 1,024,219; Apr. 23; Sp. p. 5286; Gaz. vol. 177; p. 926.
Beading-machine. J. H. Nangle. No. 1,033,190; July 23; Gaz. vol. 180; p. 927.
Beam. J. E. Tesseyman. No. 1,017,927; Feb. 20; Sp. p. 3778; Gaz. vol. 175; p. 656.
Beam and shank attachment. R. A. Trousdale No. 1,041,530; Oct. 15; Gaz. vol. 183; p. 692.
Beam, Composite building-. W. P. Francis. No. 1,047,030; Dec. 10; Gaz. vol. 185; p. 464.
Beam, Jack-. F. E. Terrill. No. 1,035,267; Aug. 13; Gaz. vol. 181; p. 321.
Beams formed of plastic material, Bond for. T. Johnson. No. 1,039,951; Oct. 1; Gaz. vol. 183; p. 93.
Beaming-machine. J. Warburton. No. 1,017,191; Feb. 13; Sp. p. 2137; Gaz. vol. 175; p. 366.
Bean-cleaner. W. J. Bloomfield. No. 1,039,249; Sept. 24; Gaz. vol. 182; p. 789.
Bean-puller. R. E. Freeman. No. 1,020,408; Mar. 19; Sp. p. 2963; Gaz. vol. 176; p. 538.
Bean-pulling device. C. H. Lawton. No. 1,018,916; Feb. 27; Sp. p. 5950; Gaz. vol. 175; p. 1025.
Bean-separator. T. Ruiz. No. 1,034,931; Aug. 6; Gaz. vol. 181; p. 177.
Bean-sorter. C. W. Carter. No. 1,034,201; July 30; Gaz. vol. 180; p. 1294.
Bearing. T. A. Edison. No. 1,013,869; Jan. 9; Sp. p. 1738; Gaz. vol. 174; p. 300.
Bearing. F. H. Smith. No. 1,017,115; Feb. 13; Sp. p. 1974; Gaz. vol. 175; p. 340.
Bearing. H. E. Coffin. No. 1,026,849; May 21; Sp. p. 3868; Gaz. vol. 178; p. 668.
Bearing. H. J. Mitchell. No. 1,030,912; July 2; Gaz. vol. 180; p. 21.
Bearing. J. D. Jones. No. 1,043,603; Nov. 5; Gaz. vol. 184; p. 198.
Bearing. P. Thacher. No. 1,045,908; Dec. 3; Gaz. vol. 185; p. 39.
Bearing. M. L. Hoyt. No. 1,048,166; Dec. 24; Gaz. vol. 185; p. 920.
Bearing, Adjustable. J. R. Blakeslee. No. 1,047,490; Dec. 17; Gaz. vol. 185; p. 659.
Bearing, Adjustable wrist-pin. E. F. Morton. No. 1,032,620; July 16; Gaz. vol. 180; p. 694.
Bearing-adjusting means. R. D. Valentine and H. S. Battee. No. 1,024,871; Apr. 30; Sp. p. 6742; Gaz. vol. 177; p. 1186.
Bearing and retainer therefor, Ball-. R. F. Schultz. No. 1,048,216; Dec. 24; Gaz. vol. 185; p. 936.
Bearing, Antifriction-. E. S. Woods. No. 1,016,596; Feb. 6; Sp. p. 838; Gaz. vol. 175; p. 125.
Bearing, Antifriction-. D. E. Kempster. No. 1,018,324; Feb. 20; Sp. p. 4614; Gaz. vol. 175; p. 792.
Bearing, Antifriction-. C. Upton. No. 1,022,163; Apr. 2; Sp. p. 870; Gaz. vol. 177; p. 138.
Bearing, Antifriction-. H. Hess. No. 1,027,541; May 28; Sp. p. 5381; Gaz. vol. 178; p. 943.
Bearing, Antifriction-. H. Hess. No. 1,027,542; May 28; Sp. p. 5383; Gaz. vol. 178; p. 943.
Bearing, Antifriction-. A. A. Weigel. No. 1,041,209; Oct. 15; Gaz. vol. 183; p. 585.
Bearing, Antifriction-. J. J. Buckley. No. 1,044,342; Nov. 12; Gaz. vol. 184; p. 484.
Bearing, Axle-. J. T. Broach. No. 1,047,374; Dec. 17; Gaz. vol. 185; p. 619.
Bearing, Ball-. J. F. Foster. No. 1,013,151; Jan. 2; Sp. p. 119; Gaz. vol. 174; p. 22.
Bearing, Ball-. G. Vincon. No. 1,020,729; Mar. 19; Sp. p. 3672; Gaz. vol. 176; p. 646.
Bearing, Ball-. H. Hess. No. 1,023,017; Apr. 9; Sp. p. 2688; Gaz. vol. 177; p. 459.
Bearing, Ball-. J. Bierschenk. No. 1,023,614; Apr. 16; Sp. p. 3956; Gaz. vol. 177; p. 695.
Bearing, Ball-. S. Schenider. No. 1,026,463; May 14; Sp. p. 3035; Gaz. vol. 178; p. 500.
Bearing, Ball-. A. Riebe. No. 1,027,902; May 28; Sp. p. 6203; Gaz. vol. 178; p. 1064.
Bearing, Ball-. S. G. Wingquist. No. 1,028,844; June 4; Sp. p. 1666; Gaz. vol. 179; p. 260.
Bearing, Ball-. E. Oldfield. No. 1,035,463; Aug. 13; Gaz. vol. 181; p. 390.
Bearing, Ball-. G. O'Loughlin. No. 1,045,736; Nov. 26; Gaz. vol. 184; p. 1029.
Bearing, Ball-and-socket. A. G. J. Rapp. No. 1,025,304; May 7; Sp. p. 423; Gaz. vol. 178; p. 69.
Bearing cage, Roller-. A. Hirth. No. 1,026,584; May 14; Sp. p. 3265; Gaz. vol. 178; p. 540.
Bearing cage, Roller-. C. A. Heinzelman. No. 1,030,400; June 25; Sp. p. 5103; Gaz. vol. 179; p. 909.
Bearing center plate, Roller-. J. C. Barber. No. 1,038,822; Sept. 17; Gaz. vol. 182; p. 626.
Bearing, Combined step and guide. J. G. Callan. No. 1,041,426; Oct. 15; Gaz. vol. 183; p. 657.
Bearing compound, Antifriction-. F. C. Winkler. No. 1,015,920; Jan. 30; Sp. p. 6220; Gaz. vol. 174; p. 1084.
Bearing, Connecting-rod. A. T. Sturt. No. 1,027,293; May 21; Sp. p. 4881; Gaz. vol. 178; p. 821.
Bearing, Crank-rod. F. F. Stauffer. No. 1,046,889; Dec. 10; Gaz. vol. 185; p. 419.
Bearing device for car-trucks, Roller-. J. C. Barber. No. 1,044,847; Nov. 19; Gaz. vol. 184; p. 689.

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Bearing drive, Roller-. G. Habig. No. 1,044,379; Nov. 12; Gaz. vol. 184; p. 496.
Bearing for electric meters. W. H. Pratt. No. 1,022,503; Apr. 9; Sp. p. 1581; Gaz. vol. 177; p. 283.
Bearing for journal-boxes, Roller-. R. Carresse. No. 1,047,914; Dec. 24; Gaz. vol. 185; p. 837.
Bearing for mill-rolls. W. M. Bancroft. No. 1,023,355; Apr. 16; Sp. p. 3428; Gaz. vol. 177; p. 612.
Bearing for resilient wheels, Antifriction-. N. Braibant. No. 1,044,739; Nov. 19; Gaz. vol. 184; p. 651.
Bearing for shafts and axles. W. B. Anderson. No. 1,044,000; Nov. 12; Gaz. vol. 184; p. 367.
Bearing for submerged shafts, Self-cleaning. W. L. Forward. No. 1,028,564; June 4; Sp. p. 1090; Gaz. vol. 179; p. 166.
Bearing for turn-tables, Roller-. H. H. Harris. No. 1,043,826; Nov. 12; Gaz. vol. 184; p. 305.
Bearing, Machine-table-spindle. E. P. Bullard, Jr. No. 1,047,162; Dec. 17; Gaz. vol. 185; p. 541.
Bearing, Non-metallic. C. O. L. Cardell. No. 1,041,427; Oct. 15; Gaz. vol. 183; p. 658.
Bearing, Propeller-shaft. E. Y. Leland. No. 1,035,205; Aug. 13; Gaz. vol. 181; p. 299.
Bearing retainer, Ball-. R. A. Schultz. No. 1,032,953; July 16; Gaz. vol. 180; p. 806.
Bearing, Roller-. W. J. Cartwright. No. 1,015,273; Jan. 16; Sp. p. 4804; Gaz. vol. 174; p. 808.
Bearing, Roller-. J. C. Barber. No. 1,016,469; Feb. 6; Sp. p. 532; Gaz. vol. 175; p. 82.
Bearing, Roller-. C. E. Davis. No. 1,018,697; Feb. 27; Sp. p. 5483; Gaz. vol. 175; p. 950.
Bearing, Roller-. N. E. Merrill and J. C. Cavender. No. 1,019,819; Mar. 12; Sp. p. 1741; Gaz. vol. 176; p. 305.
Bearing, Roller-. E. J. Taylor. No. 1,020,523; Mar. 19; Sp. p. 3212; Gaz. vol. 176; p. 575.
Bearing, Roller-. H. C. Hodges. No. 1,024,851; Apr. 30; Sp. p. 6700; Gaz. vol. 177; p. 1179.
Bearing, Roller-. E. Dederick. No. 1,029,797; June 18; Sp. p. 3755; Gaz. vol. 179; p. 661.
Bearing, Roller-. C. A. Heinzelman. No. 1,030,401; June 25; Sp. p. 5104; Gaz. vol. 179; p. 910.
Bearing, Roller-. C. A. L. Bach. No. 1,036,538; Aug. 27; Gaz. vol. 181; p. 829.
Bearing, Roller-. F. M. Tatum. No. 1,041,900; Oct. 22; Gaz. vol. 183; p. 855.
Bearing, Roller-. H. Christophersen. No. 1,045,814; Dec. 3; Gaz. vol. 185; p. 6.
Bearing, Roller side. A. Stucki. No. 1,033,210; July 23; Gaz. vol. 180; p. 934.
Bearing, Self-alining. F. S. Hitchcock. No. 1,042,114; Oct. 22; Gaz. vol. 183; p. 926.
Bearing, Self-oiling. J. Burke. No. 1,017,132; Feb. 13; Sp. p. 2010; Gaz. vol. 175; p. 346.
Bearing, Self-tightening. C. D. Shaw. No. 1,038,006; Sept. 10; Gaz. vol. 182; p. 312.
Bearing, Shaft-. J. M. Burby. No. 1,019,300; Mar. 5; Sp. p. 663; Gaz. vol. 176; p. 103.
Bearing, Shaft-. F. H. Clough. No. 1,019,424; Mar. 5; Sp. p. 972; Gaz. vol. 176; p. 142.
Bearing, Shaft-. A. M. Mattice. No. 1,028,122; June 4; Sp. p. 60; Gaz. vol. 179; p. 14.
Bearing, Side. A. K. Wolfe. No. 1,031,761; July 9; Gaz. vol. 180; p. 359.
Bearing-sleeves, Manufacture of. T. Cooper. No. 1,048,945; Dec. 31; Gaz. vol. 185; p. 1225.
Bearing, Spindle-. D. B. Salstrom. No. 1,013,847; Jan. 2; Sp. p. 1666; Gaz. vol. 174; p. 264.
Bearing, Spindle-. B. C. Gibson. No. 1,014,057; Jan. 9; Sp. p. 2168; Gaz. vol. 174; p. 363.
Bearing, Spindle-. T. J. Fegley. No. 1,020,894; Mar. 19; Sp. p. 4013; Gaz. vol. 176; p. 700.
Bearing, Split roller-. J. Newmann. No. 1,037,510; Sept. 3; Gaz. vol. 182; p. 114.
Bearing, Support ball-. P. Brühl. No. 1,022,531; Apr. 9; Sp. p. 1641; Gaz. vol. 177; p. 292.
Bearing-surfaces, Forming expanded. T. H. Symington. No. 1,045,341; Nov. 26; Gaz. vol. 184; p. 889.
Bearing, Thrust-. G. J. Henry, Jr. No. 1,020,552; Mar. 19; Sp. p. 3278; Gaz. vol. 176; p. 586.
Bearing, Thrust-. W. H. Russell. No. 1,024,457; Apr. 23; Sp. p. 5770; Gaz. vol. 177; p. 1003.
Bearing, Thrust-. E. Kreher. No. 1,036,270; Aug. 20; Gaz. vol. 181; p. 705.
Bearing, Thrust-. H. C. Kirk, Jr. No. 1,044,468; Nov. 12; Gaz. vol. 184; p. 526.
Bearing, Vehicle wheel-. G. W. Keneaster. No. 1,029,690; June 18; Sp. p. 3514; Gaz. vol. 179; p. 623.
Bearing washer, Ball-. J. N. Presley. No. 1,030,125; June 18; Sp. p. 4468; Gaz. vol. 179; p. 772.
Bearings, Ball-cage for ball-. H. Kapper. No. 1,026,749; May 21; Sp. p. 3644; Gaz. vol. 178; p. 634.
Bearings, Cage-ring for ball-. A. Schilling. No. 1,013,518; Jan. 2; Sp. p. 936; Gaz. vol. 174; p. 150.
Bearings, Cage-ring for ball-. E. Sachs. No. 1,045,193; Nov. 26; Gaz. vol. 184; p. 836.
Bearings, Making antifriction-. C. F. Sultemeyer. No. 1,048,758; Dec. 31; Gaz. vol. 185; p. 1160.
Bearings, Retainer for ball-. H. A. Olsson and S. G. Wingquist. No. 1,023,751; Apr. 16; Sp. p. 4189; Gaz. vol. 177; p. 736.
Bearings, Retainer for ball-. F. Henzelmann. No. 1,034,111; July 30; Gaz. vol. 180; p. 1264.
Bearings, Separator for ball-. H. Hess. No. 1,015,441; Jan. 23; Sp. p. 5197; Gaz. vol. 174; p. 893.
Bearings, Water-protector for oil-. J. E. Piovesan. No. 1,038,953; Sept. 17; Gaz. vol. 182; p. 671.
Beating and mixing device. H. P. Roberts. No. 1,038,204; Sept. 10; Gaz. vol. 182; p. 376.
Beating and mixing device. H. P. Roberts. No. 1,046,648; Dec. 10; Gaz. vol. 185; p. 335.
Beating-engine. R. I. Dowd. No. 1,019,612; Mar. 5; Sp. p. 1346; Gaz. vol. 176; p. 204.
Bed. W. J. Bosanko. No. 1,037,419; Sept. 3; Gaz. vol. 182; p. 81.
Bed. W. J. Ross. No. 1,037,995; Sept. 10; Gaz. vol. 182; p. 308.
Bed. S. W. and A. W. Smith. No. 1,043,477; Nov. 5; Gaz. vol. 184; p. 155.
Bed. J. A. Hornsby. No. 1,043,701; Nov. 5; Gaz. vol. 184; p. 231.
Bed, Adjustable. D. B. Allen. No. 1,038,472; Sept. 10; Gaz. vol. 182; p. 470.
Bed, Adjustable. E. J. Robison. No. 1,043,728; Nov. 5; Gaz. vol. 184; p. 240.
Bed and couch, Combined. T. F. Kelly. No. 1,014,484; Jan. 9; Sp. p. 3070; Gaz. vol. 174; p. 510.
Bed-and-cylinder machine. R. T. Johnston. No. 1,040,208; Oct. 1; Gaz. vol. 183; p. 180.
Bed and davenport, Convertible. L. E. Weimann. No. 1,031,304; July 2; Gaz. vol. 180; p. 161.
Bed and divan, Convertible. W. Thompson. No. 1,022,212; Apr. 2; Sp. p. 975; Gaz. vol. 177; p. 156.
Bed and housing therefor, Disappearing. W. W. Lavanway and G. A. Nenno. No. 1,039,967; Oct. 1; Gaz. vol. 183; p. 98.
Bed and seat, Convertible. P. Herbold. No. 1,033,012; July 16; Gaz. vol. 180; p. 827.
Bed and seat, Convertible. P. Herbold. No. 1,033,013; July 16; Gaz. vol. 180; p. 827.
Bed and settee, Combination. E. H. Kennedy. No. 1,047,073; Dec. 10; Gaz. vol. 185; p. 479.
Bed and spring, Extension. G. and C. Ballard. No. 1,035,765; Aug. 13; Gaz. vol. 181; p. 491.
Bed appliance, Hospital-. L. Witt. No. 1,037,392; Sept. 3; Gaz. vol. 182; p. 72.
Bed attachment. F. Hadley. No. 1,019,957; Mar. 12; Sp. p. 2033; Gaz. vol. 176; p. 351.
Bed attachment. F. H. Crane. No. 1,026,149; May 14; Sp. p. 2335; Gaz. vol. 178; p. 395.
Bed attachment. J. B. Leek. No. 1,036,653; Aug. 27; Gaz. vol. 181; p. 869.
Bed attachment. J. H. Spencer. No. 1,044,936; Nov. 19; Gaz. vol. 184; p. 719.
Bed attachment. J. G. Laycock. No. 1,045,571; Nov. 26; Gaz. vol. 184; p. 971.
Bed attachment. J. L. McPherson. No. 1,046,479; Dec. 10; Gaz. vol. 185; p. 275.
Bed-bottom. J. Stott. No. 1,028,915; June 11; Sp. p. 1843; Gaz. vol. 179; p. 320.
Bed-bottom fabric. J. Chaves. No. 1,021,504; Mar. 26; Sp. p. 5335; Gaz. vol. 176; p. 961.
Bed-bottom fabric. R. Coopersmith. No. 1,044,627; Nov. 19; Gaz. vol. 184; p. 612.
Bed-bottom fabric, Link. G. A. Mellon. No. 1,024,803; Apr. 30; Sp. p. 6604; Gaz. vol. 177; p. 1161.
Bed-bottom, Spring. A. S. Altman. No. 1,040,108; Oct. 1; Gaz. vol. 183; p. 146.
Bed-bottom support. W. J. Grotenhuis. No. 1,026,031; May 14; Sp. p. 2061; Gaz. vol. 178; p. 353.
Bed-bottoms and the like, Fabric-tightener for. W. A. Poulnot. No. 1,016,579; Feb. 6; Sp. p. 805; Gaz. vol. 175; p. 120.
Bed, chair, and table, Combination. T. Engstrand. No. 1,046,163; Dec. 3; Gaz. vol. 185; p. 125.
Bed, Collapsible. N. Y. Townsend. No. 1,040,815; Oct. 8; Gaz. vol. 183; p. 419.
Bed, Condensed disappearing. L. Holmes. No. 1,033,401; July 23; Gaz. vol. 180; p. 998.
Bed, Convertible. A. E. Irelan. No. 1,043,772; Nov. 5; Gaz. vol. 184; p. 255.
Bed, Convertible table-. A. F. Westerström. No. 1,043,743; Nov. 5; Gaz. vol. 184; p. 245.
Bed, Convertible table-. A. F. Westerström. No. 1,043,744; Nov. 5; Gaz. vol. 184; p. 245.
Bed, Couch-. C. H. Young. No. 1,020,630; Mar. 19; Sp. p. 3458; Gaz. vol. 176; p. 611.
Bed, Couch-. G. F. Sisbower. No. 1,027,007; May 21; Sp. p. 4248; Gaz. vol. 178; p. 724.
Bed, Couch-. C. H. Young. No. 1,031,608; July 2; Gaz. vol. 180; p. 263.
Bed, Couch-. C. H. Young. No. 1,035,934; Aug. 20; Gaz. vol. 181; p. 586.
Bed, Couch-. W. P. Hammond. No. 1,038,879; Sept. 17; Gaz. vol. 182; p. 646.
Bed, Couch-. G. F. Sisbower. No. 1,043,736; Nov. 5; Gaz. vol. 184; p. 242.
Bed, &c., Couch-. A. G. Eyles. No. 1,021,091; Mar. 26; Sp. p. 4425; Gaz. vol. 176; p. 819.
Bed-couch. F. L. Andren. No. 1,036,172; Aug. 20; Gaz. vol. 181; p. 670.

Alphabetical list of inventions—Continued.

Bed-couch, Extension. J. Hoey. No. 1,032,063; July 9; Gaz. vol. 180; p. 461.
Bed, couch, &c., Sofa. P. E. Kroehler. No. 1,044,059; Nov. 12; Gaz. vol. 184; p. 386.
Bed, couch, &c., Sofa. P. E. Kroehler. No. 1,046,417; Dec. 3; Gaz. vol. 185; p. 217.
Bed, Davenport-. A. Lucik. No. 1,018,432; Feb. 27; Sp. p. 4868; Gaz. vol. 175; p. 862.
Bed-davenport. A. C. Klopping. No. 1,034,253; July 30; Gaz. vol. 180; p. 1314.
Bed, Disappearing. E. R. Brainerd. No. 1,029,167; June 11; Sp. p. 2383; Gaz. vol. 179; p. 406.
Bed, Disappearing. W. L. Murphy. (Reissue.) No. 13,428; June 11; Sp. p. 3272; Gaz. vol. 179; p. 549.
Bed, Disappearing. W. L. Murphy. No. 1,030,201; June 18; Sp. p. 4643; Gaz. vol. 179; p. 798.
Bed, Disappearing. C. R. Bruce. No. 1,037,858; Sept. 10; Gaz. vol. 182; p. 260.
Bed, Disappearing wall-. E. L. Gillespie. No. 1,016,139; Jan. 30; Sp. p. 6682; Gaz. vol. 174; p. 1161.
Bed elevating and transporting apparatus, Combined. G. Fillion. No. 1,042,662; Oct. 29; Gaz. vol. 183; p. 1142.
Bed, Extensible. H. Mintz. No. 1,035,721; Aug. 13; Gaz. vol. 181; p. 477.
Bed, Extensible. A. McKnight. No. 1,037,283; Sept. 3; Gaz. vol. 182; p. 35.
Bed fabric, Spring. R. B. Harrison and J. Wilting. No. 1,033,396; July 23; Gaz. vol. 180; p. 997.
Bed, Folding. H. A. Javins. No. 1,017,548; Feb. 13; Sp. p. 2894; Gaz. vol. 175; p. 489.
Bed, Folding. O. Kallander. No. 1,021,607; Mar. 26; Sp. p. 5539; Gaz. vol. 176; p. 994.
Bed, Folding. A. Haberman. No. 1,023,562; Apr. 16; Sp. p. 3846; Gaz. vol. 177; p. 677.
Bed, Folding. F. C. Roberts. No. 1,024,284; Apr. 23; Sp. p. 5418; Gaz. vol. 177; p. 949.
Bed, Folding. W. H. McCarry. No. 1,028,372; June 4; Sp. p. 678; Gaz. vol. 179; p. 102.
Bed, Folding. L. B. Jeffcott. No. 1,037,259; Sept. 3; Gaz. vol. 182; p. 28.
Bed, Folding. H. Brandt. No. 1,042,075; Oct. 22; Gaz. vol. 183; p. 912.
Bed, Folding extension-. E. R. Neukirch. No. 1,023,328; Apr. 16; Sp. p. 3386; Gaz. vol. 177; p. 604.
Bed, Folding or collapsible. F. H. Farrington. No. 1,022,022; Apr. 2; Sp. p. 578; Gaz. vol. 177; p. 91.
Bed, Folding wall-. H. H. Hall. No. 1,042,670; Oct. 29; Gaz. vol. 183; p. 1145.
Bed for invalids. F. Berman. No. 1,033,981; July 30; Gaz. vol. 180; p. 1219.
Bed-frame. F. I. Gould. No. 1,022,938; Apr. 9; Sp. p. 2550; Gaz. vol. 177; p. 432.
Bed-frame joint. A. Hill. No. 1,042,555; Oct. 29; Gaz. vol. 183; p. 1103.
Bed, Hospital-. W. E. Courtney. No. 1,032,743; July 16; Gaz. vol. 180; p. 739.
Bed, Hospital-. W. T. Merchant. No. 1,038,623; Sept. 17; Gaz. vol. 182; p. 557.
Bed, Hospital-. G. A. Wilson. No. 1,048,254; Dec. 24; Gaz. vol. 185; p. 947.
Bed, Invalid-. R. Roesch. No. 1,023,396; Apr. 16; Sp. p. 3515; Gaz. vol. 177; p. 626.
Bed, Invalid-. F. Miller. No. 1,027,879; May 28; Sp. p. 6145; Gaz. vol. 178; p. 1055.
Bed, Invalid-. A. Skeffington. No. 1,040,795; Oct. 8; Gaz. vol. 183; p. 413.
Bed, Invalid-. M. D. Gavan. No. 1,043,517; Nov. 5; Gaz. vol. 184; p. 170.
Bed, Invalid-. J. A. McDonald and W. McDowall. No. 1,046,830; Dec. 10; Gaz. vol. 185; p. 399.
Bed-jack. T. J. Le Cras. No. 1,031,798; July 9; Gaz. vol. 180; p. 372.
Bed-jack. A. F. Barnes. No. 1,046,720; Dec. 10; Gaz. vol. 185; p. 362.
Bed-lifter. J. S. Visger and C. Claus. No. 1,017,484; Feb. 13; Sp. p. 2777; Gaz. vol. 175; p. 468.
Bed-lock. W. B. Swindell. No. 1,045,757; Nov. 26; Gaz. vol. 184; p. 1036.
Bed-lock. Z. W. Ussery. No. 1,049,174; Dec. 31; Gaz. vol. 185; p. 1301.
Bed-movement. R. T. Johnston. No. 1,022,557; Apr. 9; Sp. p. 1697; Gaz. vol. 177; p. 299.
Bed of the davenport style, Sofa-. H. Chessler. No. 1,028,541; June 4; Sp. p. 1040; Gaz. vol. 179; p. 158.
Bed or berth attachment. H. E. Perkins. No. 1,037,305; Sept. 3; Gaz. vol. 182; p. 42.
Bed or couch fabric. W. J. Grotenhuis. No. 1,021,772; Apr. 2; Sp. p. 33; Gaz. vol. 177; p. 8.
Bed or couch, Folding. E. Gregory. No. 1,032,541; July 16; Gaz. vol. 180; p. 668.
Bed-pan. A. Houdard. No. 1,045,793; Nov. 26; Gaz. vol. 184; p. 1048.
Bed-pan. A. Houdard. No. 1,048,462; Dec. 24; Gaz. vol. 185; p. 1018.
Bed-protector. J. F. Kampe. No. 1,017,153; Feb. 13; Sp. p. 2058; Gaz. vol. 175; p. 353.
Bed-rail fastening. J. Capozzi and L. Keser. No. 1,031,242; July 2; Gaz. vol. 180; p. 139.
Bed-rail joint. E. J. Olsen. No. 1,031,660; July 2; Gaz. vol. 180; p. 281.
Bed-rail lock. J. Wilson. No. 1,046,358; Dec. 3; Gaz. vol. 185; p. 195.
Bed-rest. C. W. Warlick. No. 1,019,864; Mar. 12; Sp. p. 1831; Gaz. vol. 176; p. 321.
Bed-rest, Adjustable. L. E. Bier. No. 1,041,955; Oct. 22; Gaz. vol. 183; p. 873.
Bed, Screen-. F. B. Easton. No. 1,040,909; Oct. 8; Gaz. vol. 183; p. 449.
Bed, Sofa-. F. B. Wersel, Jr. No. 1,017,937; Feb. 20; Sp. p. 3796; Gaz. vol. 175; p. 659.
Bed, Sofa-. M. Clune. No. 1,027,183; May 21; Sp. p. 4655; Gaz. vol. 178; p. 782.
Bed, Sofa-. H. J. Jacobs. No. 1,030,730; June 25; Sp. p. 6027; Gaz. vol. 179; p. 1026.
Bed, Sofa-. H. J. Jacobs. No. 1,030,731; June 25; Sp. p. 6030; Gaz. vol. 179; p. 1027.
Bed, Sofa or davenport. J. G. Curtis. No. 1,019,606; Mar. 5; Sp. p. 1335; Gaz. vol. 176; p. 202.
Bed, Spring-. B. D. Courts. No. 1,013,642; Jan. 2; Sp. p. 1198; Gaz. vol. 174; p. 191.
Bed, Spring-. B. D. Courts. No. 1,016,402; Feb. 6; Sp. p. 374; Gaz. vol. 175; p. 59.
Bed, Spring-. J. W. Horvath. No. 1,022,738; Apr. 9; Sp. p. 2126; Gaz. vol. 177; p. 365.
Bed, Spring-. A. Bellefeuille. No. 1,027,170; May 21; Sp. p. 4631; Gaz. vol. 178; p. 777.
Bed, Spring-. H. D. Sweinhagen. No. 1,045,086; Nov. 19; Gaz. vol. 184; p. 772.
Bed, Spring-. E. L. Devore. No. 1,046,279; Dec. 3; Gaz. vol. 185; p. 168.
Bed-spring. L. Jefferson. No. 1,016,633; Feb. 6; Sp. p. 932; Gaz. vol. 175; p. 139.
Bed-spring. G. Benedetti. No. 1,018,865; Feb. 27; Sp. p. 5848; Gaz. vol. 175; p. 1009.
Bed-spring. J. A. Moore. No. 1,023,089; Apr. 9; Sp. p. 2841; Gaz. vol. 177; p. 483.
Bed-spring. S. C. Chatham. No. 1,023,721; Apr. 16; Sp. p. 4141; Gaz. vol. 177; p. 727.
Bed-spring. J. Roever. No. 1,023,876; Apr. 23; Sp. p. 4501; Gaz. vol. 177; p. 806.
Bed-spring. H. A. Ruggles. No. 1,040,767; Oct. 8; Gaz. vol. 183; p. 404.
Bed-spring. G. C. Locklin. No. 1,041,310; Oct. 15; Gaz. vol. 183; p. 620.
Bed-spring. G. R. Carlson. No. 1,049,048; Dec. 31; Gaz. vol. 185; p. 1261.
Bed-spring adjustment. W. H. Carickhoff. No. 1,014,374; Jan. 9; Sp. p. 2868; Gaz. vol. 174; p. 474.
Bed-spring attachment. P. F. Crighton and P. D. Hives. No. 1,019,765; Mar. 12; Sp. p. 1646; Gaz. vol. 176; p. 287.
Bed-spring cover. I. M. Jacobs. No. 1,029,370; June 11; Sp. p. 2836; Gaz. vol. 179; p. 477.
Bed-spring fabric. G. Gangelhoff, Jr., and M. Jordan. No. 1,022,131; Apr. 2; Sp. p. 808; Gaz. vol. 177; p. 128.
Bed-spring frame. L. D. Huncker. No. 1,016,152; Jan. 30; Sp. p. 6704; Gaz. vol. 174; p. 1165.
Bed-spring hoist. A. C. Anderson. No. 1,032,264; July 9; Gaz. vol. 180; p. 530.
Bed-spring stretcher. A. O. Stricker. No. 1,048,911; Dec. 31; Gaz. vol. 185; p. 1212.
Bed-spring tightener. F. Johnson. No. 1,033,702; July 23; Gaz. vol. 180; p. 1095.
Bed-springs or the like, Attachment for wire-mesh. J. N. Eastwood. No. 1,038,863; Sept. 17; Gaz. vol. 182; p. 640.
Bed-ventilating device. M. Uschold. No. 1,036,938; Aug. 27; Gaz. vol. 181; p. 961.
Bed, Wall-. M. H. Holmes and W. A. Matheson. No. 1,037,911; Sept. 10; Gaz. vol. 182; p. 279.
Bed, Wall-. N. B. Douglass. No. 1,044,760; Nov. 19; Gaz. vol. 184; p. 660.
Bed, Wall-. A. C. Krueger. No. 1,045,987; Dec. 3; Gaz. vol. 185; p. 65.
Bed, Wall or recess. R. H. Anderson. No. 1,015,376; Jan. 23; Sp. p. 5052; Gaz. vol. 174; p. 871.
Bed weights, Wall-. H. A. Javins. No. 1,015,318; Jan. 23; Sp. p. 4914; Gaz. vol. 174; p. 851.
Beds, Back-rest attachment for. H. C. Beitz. No. 1,046,430; Dec. 10; Gaz. vol. 185; p. 257.
Beds, Folding leg for couch-. M. J. Halpin. No. 1,024,197; Apr. 23; Sp. p. 5237; Gaz. vol. 177; p. 917.
Beds, Locking device for. H. J. Montgomery. No. 1,030,008; June 18; Sp. p. 4220; Gaz. vol. 179; p. 731.
Beds of the ordinary type for the use of invalids, Apparatus for adapting. R. M. McGary. No. 1,021,693; Mar. 26; Sp. p. 5678; Gaz. vol. 176; p. 1022.
Bedclothes-clamp. A. Giordano. No. 1,045,832; Dec. 3; Gaz. vol. 185; p. 13.
Bedclothes-holder. W. J. Stott. No. 1,044,592; Nov. 19; Gaz. vol. 184; p. 600.
Bedstead. F. F. Schwaller. No. 1,014,670; Jan. 16; Sp. p. 3522; Gaz. vol. 174; p. 604.
Bedstead. H. Ackermann. No. 1,016,868; Feb. 6; Sp. p. 1404; Gaz. vol. 175; p. 217.
Bedstead. E. W. Pettersson. No. 1,017,793; Feb. 20; Sp. p. 3456; Gaz. vol. 175; p. 608.
Bedstead. J. A. Kemmler. No. 1,018,195; Feb. 20; Sp. p. 4363; Gaz. vol. 175; p. 749.
Bedstead. J. Prendergast. No. 1,021,701; Mar. 26; Sp. p. 5693; Gaz. vol. 176; p. 1025.

Bedstead. J. A. Wilson. No. 1,026,016; May 14; Sp. p. 2012; Gaz. vol. 178; p. 347.
Bedstead. E. Fischbach. No. 1,027,829; May 28; Sp. p. 5989; Gaz. vol. 178; p. 1039.
Bedstead. D. K. Hall. No. 1,028,716; June 4; Sp. p. 1395; Gaz. vol. 179; p. 216.
Bedstead. J. Kohler. No. 1,040,693; Oct. 8; Gaz. vol. 183; p. 381.
Bedstead and chair, Combined folding. A. E. Edström and O. B. Andersson. No. 1,021,360; Mar. 26; Sp. p. 4988; Gaz. vol. 176; p. 910.
Bedstead and other frame, Tubular. G. Holden. No. 1,041,284; Oct. 15; Gaz. vol. 183; p. 612.
Bedstead and other frames, Joint for the tubes of. C. Vallone. No. 1,021,437; Mar. 26; Sp. p. 5185; Gaz. vol. 176; p. 938.
Bedstead and table, Combined. G. A. Samuels. No. 1,039,817; Oct. 1; Gaz. vol. 183; p. 49.
Bedstead corner-fastener. R. Mainker. No. 1,047,669; Dec. 17; Gaz. vol. 185; p. 723.
Bedstead corner-fastening. W. B. Foster. No. 1,021,185; Mar. 26; Sp. p. 4629; Gaz. vol. 176; p. 849.
Bedstead corner-fastening. O. H. Warner and G. G. Rickerson. No. 1,031,216; July 2; Gaz. vol. 180; p. 130.
Bedstead, Detachable folding. S. L. Harman. No. 1,039,527; Sept. 24; Gaz. vol. 182; p. 885.
Bedstead, Invalid-. T. C. Robinson. No. 1,021,335; Mar. 26; Sp. p. 4943; Gaz. vol. 176; p. 902.
Bedstead or couch, Folding. C. H. Fish. No. 1,044,638; Nov. 19; Gaz. vol. 184; p. 615.
Bedstead-slat holder. W. Chinter. No. 1,014,452; Jan. 9; Sp. p. 3021; Gaz. vol. 174; p. 501.
Bedstead, Sofa-. M. Thompson. No. 1,036,746; Aug. 27; Gaz. vol. 181; p. 898.
Bedstead, Sofa-. R. Coopersmith. No. 1,043,071; Nov. 5; Gaz. vol. 184; p. 8.
Bedstead, Sofa or chair. C. A. Warner. No. 1,038,693; Sept. 17; Gaz. vol. 182; p. 581.
Bedsteads, Clothes-hanging attachment for. C. Honest. No. 1,037,253; Sept. 3; Gaz. vol. 182; p. 26.
Bee-culture apparatus. H. H. Thale. No. 1,046,507; Dec. 10; Gaz. vol. 185; p. 286.
Bee-feeder. G. L. White. No. 1,022,762; Apr. 9; Sp. p. 2176; Gaz. vol. 177; p. 373.
Beehive. A. B. Anthony. No. 1,036,950; Aug. 27; Gaz. vol. 181; p. 965.
Beehive. J. A. Gebhart. No. 1,042,907; Oct. 29; Gaz. vol. 183; p. 1226.
Beehive. F. Danzenbaker. No. 1,048,950; Dec. 31; Gaz. vol. 185; p. 1226.
Beehive-entrance guard. G. C. Rahn. No. 1,017,233; Feb. 13; Sp. p. 2241; Gaz. vol. 175; p. 381.
Beeswax-cleaner. D. Grant. No. 1,023,640; Apr. 16; Sp. p. 4007; Gaz. vol. 177; p. 703.
Beer-cases, Protective shield for. P. T. Clark. No. 1,039,364; Sept. 24; Gaz. vol. 182; p. 828.
Beer-coil-cleaning machine. M. Sroka and L. Kalish. No. 1,049,163; Dec. 31; Gaz. vol. 185; p. 1298.
Beer-cooler. F. Turek. No. 1,035,923; Aug. 20; Gaz. vol. 181; p. 583.
Beer-cooler. J. W. Hurley. No. 1,046,298; Dec. 3; Gaz. vol. 185; p. 174.
Beer cooling and storage tank. W. Griesser. No. 1,018,704; Feb. 27; Sp. p. 5502; Gaz. vol. 175; p. 953.
Beer cooling and storing building. W. Griesser. No. 1,018,703; Feb. 27; Sp. p. 5501; Gaz. vol. 175; p. 953.
Beer-keg mold. J. M. Thompson. No. 1,038,683; Sept. 17; Gaz. vol. 182; p. 577.
Beer-mug, Sanitary vacuum. W. J. Miller. No. 1,031,950; July 9; Gaz. vol. 180; p. 424.
Beer-pipe cleaner. H. Hubert and E. Fry. No. 1,039,405; Sept. 24; Gaz. vol. 182; p. 842.
Beer, Removing alcohol from and purifying. H. E. Deckebach. No. 1,017,086; Feb. 13; Sp. p. 1925; Gaz. vol. 175; p. 330.
Beer-saving apparatus. J. Choquette. No. 1,031,838; July 9; Gaz. vol. 180; p. 386.
Beer-spraying device. M. Adamowski. No. 1,034,557; Aug. 6; Gaz. vol. 181; p. 52.
Beer-tapper. W. W. Frisholm. No. 1,021,669; Mar. 26; Sp. p. 5637; Gaz. vol. 176; p. 1014.
Beet-blocker. E. C. Reynolds. No. 1,017,316; Feb. 13; Sp. p. 2411; Gaz. vol. 175; p. 410.
Beet digger, cleaner, and elevator. J., J., Jr., and W. A. Devey. No. 1,046,998; Dec. 10; Gaz. vol. 185; p. 453.
Beet-drill. N. G. Lawson. No. 1,044,398; Nov. 12; Gaz. vol. 184; p. 502.
Beet gage member and topper. G. A. Pingree. No. 1,045,074; Nov. 19; Gaz. vol. 184; p. 767.
Beet-picker. E. A. Cadwallader. No. 1,048,457; Dec. 24; Gaz. vol. 185; p. 1017.
Beet-puller. S. R. Giddings. No. 1,023,836; Apr. 23; Sp. p. 4417; Gaz. vol. 177; p. 793.
Beet-slices, Apparatus for heating. M. Paschen. No. 1,042,261; Oct. 22; Gaz. vol. 183; p. 974.
Beet-top cutter. W. and H. A. Maurer. No. 1,039,161; Sept. 24; Gaz. vol. 182; p. 755.
Beet-topper. E. Lang. No. 1,019,056; Mar. 5; Sp. p. 92; Gaz. vol. 176; p. 18.
Beet-topper. F. Lotter. No. 1,025,755; May 7; Sp. p. 1429; Gaz. vol. 178; p. 224.
Beet-topper. F. Briggs. No. 1,027,399; May 28; Sp. p. 5104; Gaz. vol. 178; p. 896.
Beet-topper. B. F. Binder and R. O. Deulen. No. 1,041,003; Oct. 15; Gaz. vol. 183; p. 515.
Beet-topper. D. Klemmer. No. 1,046,198; Dec. 3; Gaz. vol. 185; p. 137.
Beet-topper. J. M. Caraway. No. 1,047,615; Dec. 17; Gaz. vol. 185; p. 703.
Beet topper and digger. J., J., Jr., and W. A. Devey. No. 1,046,448; Dec. 10; Gaz. vol. 185; p. 264.
Beet-topper and plow. E. A. Cadwallader. No. 1,048,458; Dec. 24; Gaz. vol. 185; p. 1017.
Beet topping and loading apparatus. R. H. Moore. No. 1,024,142; Apr. 23; Sp. p. 5110; Gaz. vol. 177; p. 898.
Beet-topping machine. C. W. Franklin. No. 1,025,693; May 7; Sp. p. 1297; Gaz. vol. 178; p. 202.
Bell. G. W. Goff. No. 1,029,286; June 11; Sp. p. 2630; Gaz. vol. 179; p. 446.
Bell. D. C. Horner. No. 1,031,002; July 2; Gaz. vol. 180; p. 53.
Bell. G. F. Cremer and J. J. Lantry. No. 1,035,321; Aug. 13; Gaz. vol. 181; p. 341.
Bell, Alarm-. H. P. Christianson. No. 1,040,974; Oct. 8; Gaz. vol. 183; p. 472.
Bell, Cycle and like. H. Brammer. No. 1,035,681; Aug. 13; Gaz. vol. 181; p. 463.
Bell, Electric. S. Brown. No. 1,018,162; Feb. 20; Sp. p. 4296; Gaz. vol. 175; p. 738.
Bell, Electric. A. A. Ziegler. No. 1,031,313; July 2; Gaz. vol. 180; p. 164.
Bell, Electric. H. A. Schmidt. No. 1,037,059; Aug. 27; Gaz. vol. 181; p. 1003.
Bell, Electric. H. R. Stuart and F. Schaefer. No. 1,048,913; Dec. 31; Gaz. vol. 185; p. 1213.
Bell, Mechanically-operated door-. J. A. Young. No. 1,021,396; Mar. 26; Sp. p. 5101; Gaz. vol. 176; p. 923.
Bell or ringer, Electric. C. R. Albertus. No. 1,041,944; Oct. 22; Gaz. vol. 183; p. 870.
Bell-ringer. E. Wilson. No. 1,021,394; Mar. 26; Sp. p. 5094; Gaz. vol. 176; p. 922.
Bell ringer, Magneto-. E. Bowman. No. 1,034,964; Aug. 6; Gaz. vol. 181; p. 189.
Bell-ringing apparatus. W. H. Durfee. No. 1,034,001; July 30; Gaz. vol. 180; p. 1226.
Bell-ringing device, Automatic. H. W. Gross. No. 1,046,775; Dec. 10; Gaz. vol. 185; p. 381.
Bell-ringing machine. G. Zint. No. 1,013,262; Jan. 2; Sp. p. 373; Gaz. vol. 174; p. 60.
Bell-ringing mechanism. H. Vissering. No. 1,036,939; Aug. 27; Gaz vol. 181; p. 961.
Bell-ringing transformer. S. E. Johannesen. No. 1,021,252; Mar. 26; Sp. p. 4776; Gaz. vol. 176; p. 872.
Bell-switch, Automatic. A. F. Kaiser. No. 1,017,101; Feb. 13; Sp. p. 1952; Gaz. vol. 175; p. 335.
Belt. D. Franks. No. 1,028,346; June 4; Sp. p. 622; Gaz. vol. 179; p. 92.
Belt. T. Hershkowitz. No. 1,030,779; June 25; Sp. p. 6178; Gaz. vol. 179; p. 1045.
Belt. V. H. Jennings. No. 1,035,350; Aug. 13; Gaz. vol. 181; p. 352.
Belt, Apparel-. A. Rezniček. No. 1,021,728; Mar. 26; Sp. p. 5755; Gaz. vol. 176; p. 1033.
Belt-clamp. W. J. M. Dobson. No. 1,020,748; Mar. 19; Sp. p. 3722; Gaz. vol. 176; p. 653.
Belt-cleaner. J. J. Ridgway. No. 1,013,899; Jan. 9; Sp. p. 1806; Gaz. vol. 174; p. 310.
Belt, Compound. T. Horsman. No. 1,019,152; Mar. 5; Sp. p. 326; Gaz. vol. 176; p. 51.
Belt-cutting machine. H. Genze, E. and R. Gäck. No. 1,021,309; Mar. 26; Sp. p. 4885; Gaz. vol. 176; p. 892.
Belt-dressings, Composition of matter for. F. L. Cavagnaro. No. 1,023,992; Apr. 23; Sp. p. 4766; Gaz. vol. 177; p. 846.
Belt-drive. A. E. Newton. No. 1,019,516; Mar. 5; Sp. p. 1170; Gaz. vol. 176; p. 173.
Belt, Driving-. H. G. and A. Voight. No. 1,018,792; Feb. 27; Sp. p. 5694; Gaz. vol. 175; p. 984.
Belt, Driving-. M. Hawe. No. 1,020,496; Mar. 19; Sp. p. 3153; Gaz. vol. 176; p. 567.
Belt, Driving-. D. A. Roberts. No. 1,049,267; Dec. 31; Gaz. vol. 185; p. 1334.
Belt-fastener. J. C. Conn. No. 1,015,783; Jan. 30; Sp. p. 5929; Gaz. vol. 174; p. 1038.
Belt-fastener. W. S. Andres and P. Meyer. No. 1,033,774; July 30; Gaz. vol. 180; p. 1145.
Belt-fastener. J. H. Dozier. No. 1,042,206; Oct. 22; Gaz. vol. 183; p. 956.
Belt-fastener. W. A. Roos. No. 1,042,604; Oct. 29; Gaz. vol. 183; p. 1121.
Belt-fastener holder. J. K. Diamond. No. 1,044,358; Nov. 12; Gaz. vol. 184; p. 489.
Belt-fasteners, Automatic machine for cutting and forming. C. E. Coe. No. 1,037,867; Sept. 10; Gaz. vol. 182; p. 263.
Belt-fastening means. O. R. Rust. No. 1,022,508; Apr. 9; Sp. p. 1589; Gaz. vol. 177; p. 284.
Belt-flight. N. S. Cole. No. 1,023,008; Apr. 9; Sp. p. 2670; Gaz. vol. 177; p. 455.
Belt guide and thrower, Automatic. J. H. Munson. No. 1,034,279; July 30; Gaz. vol. 180; p. 1323.

Alphabetical list of inventions—Continued.

Belt-guide, Automatic. R. Johnson, Sr. No. 1,022,949; Apr. 9; Sp. p. 2564; Gaz. vol. 177; p. 435.
Belt guiding and shifting device. L. L. Thompson. No. 1,016,302; Feb. 6; Sp. p. 143; Gaz. vol. 175; p. 22.
Belt-guiding mechanism. S. C. Keith, Jr. No. 1,023,253; Apr. 16; Sp. p. 3229; Gaz. vol. 177; p. 578.
Belt-holder, Engine. E. and C. E. Hicks. No. 1,013,388; Jan. 2; Sp. p. 660; Gaz. vol. 174; p. 104.
Belt-hook. D. T. Graham. No. 1,031,179; July 2; Gaz. vol. 180; p. 118.
Belt-hook. N. Heger. No. 1,035,963; Aug. 20; Gaz. vol. 181; p. 595.
Belt, Identification-. W. S. Douglass. No. 1,025,520; May 7; Sp. p. 925; Gaz. vol. 178; p. 144.
Belt machine, Abrasive-. C. H. Drury. No. 1,049,214; Dec. 31; Gaz. vol. 185; p. 1316.
Belt-polishing machine. E. F. Thoren. No. 1,039,845; Oct. 1; Gaz. vol. 183; p. 60.
Belt, Power-transmission. J. E. Rhoads. No. 1,030,682; June 25; Sp. p. 5911; Gaz. vol. 179; p. 1010.
Belt-retainer. I. Goldberg. No. 1,031,783; July 9; Gaz. vol. 180; p. 366.
Belt sandpapering-machine. O. C. Wysong. No. 1,013,980; Jan. 9; Sp. p. 1996; Gaz. vol. 174; p. 338.
Belt-shifter. S. W. Browne. No. 1,020,021; Mar. 12; Sp. p. 2162; Gaz. vol. 176; p. 372.
Belt-shifter. S. R. Bailey. No. 1,022,650; Apr. 9; Sp. p. 1899; Gaz. vol. 177; p. 332.
Belt-shifter. W. A. Reed. No. 1,028,966; June 11; Sp. p. 1949; Gaz. vol. 179; p. 336.
Belt-shifter. E. E. Blake and W. H. Goldsmith, Jr. No. 1,029,338; June 11; Sp. p. 2764; Gaz. vol. 179; p. 466.
Belt-shifter. W. Elkin. No. 1,029,495; June 11; Sp. p. 3094; Gaz. vol. 179; p. 519.
Belt-shifter. R. Milne. No. 1,036,303; Aug. 20; Gaz. vol. 181; p. 715.
Belt shifter. W. Dittmeyer. No. 1,036,466; Aug. 20; Gaz. vol. 181; p. 771.
Belt-shifter. L. T. Hagan. No. 1,036,487; Aug. 20; Gaz. vol. 181; p. 779.
Belt-shifter. C. L. Frederick. No. 1,046,169; Dec. 3; Gaz. vol. 185; p. 127.
Belt-shifter, Automatic. E. F. Bauer. No. 1,015,933; Jan. 30; Sp. p. 6248; Gaz. vol. 174; p. 1088.
Belt slackening and tightening device. P. J. Dreher. No. 1,035,327; Aug. 13; Gaz. vol. 181; p. 342.
Belt-stretcher. J. N. McKee. No. 1,031,357; July 2; Gaz. vol. 180; p. 178.
Belt-stretcher. R. L. Sutherland. No. 1,036,369; Aug. 20; Gaz. vol. 181; p. 739.
Belt-support. I. C. Isaacs. No. 1,043,522; Nov. 5; Gaz. vol. 184; p. 171.
Belt-support for garments. I. C. Isaacs and A. H. Likes. No. 1,035,013; Aug. 6; Gaz. vol. 181; p. 204.
Belt-tightener. J. H. Sewall. No. 1,016,787; Feb. 6; Sp. p. 1238; Gaz. vol. 175; p. 191.
Belt-tightening means. G. Nealy. No. 1,047,830; Dec. 17; Gaz. vol. 185; p. 778.
Belts, Anchor for safety-. W. A. Cherry, Jr. No. 1,026,562; May 14; Sp. p. 3222; Gaz. vol. 178; p. 532.
Belts and the like, Device for testing the tension of. A. W. Thompson. No. 1,031,208; July 2; Gaz. vol. 180; p. 127.
Belting. L. A. Subers. No. 1,014,918; Jan. 16; Sp. p. 4078; Gaz. vol. 174; p. 689.
Belting, Canvas. J. B. Hay. No. 1,022,080; Apr. 2; Sp. p. 694; Gaz. vol. 177; p. 111.
Belting, Manufacture of textile. W. G. Maxwell and E. J. C. Christie. No. 1,041,130; Oct. 15; Gaz. vol. 183; p. 558.
Belting. Power-transmission. L. K. Tuttle. No. 1,048,236; Dec. 24; Gaz. vol. 185; p. 941.
Bench; *See* Greenhouse-bench; Molder's bench; Music-bench; Piano-bench; Washbench.
Bench. H. A. and C. W. Wheeler. No. 1,032,792; July 16; Gaz. vol. 180; p. 755.
Bench-dog. J. Primos. No. 1,023,679; Apr. 16; Sp. p. 4066; Gaz. vol. 177; p. 713.
Bench-dog. W. J. Villard. No. 1,046,123; Dec. 3; Gaz. vol. 185; p. 111.
Bending appliance. J. W. Johnson, W. A. Baueris, P. J. Jensen, and W. D. Lawshe. No. 1,026,916; May 21; Sp. p. 4030; Gaz. vol. 178; p. 691.
Bending-dies. A. J. Ellis and C. E. Nellis. No. 1,013,871; Jan. 9; Sp. p. 1753; Gaz. vol. 174; p. 300.
Bending-machine. J. F. Cox. No. 1,021,662; Mar. 26; Sp. p. 5625; Gaz. vol. 176; p. 1012.
Bending-machine. J. E. Erickson. No. 1,028,102; June 4; Sp. p. 20; Gaz. vol. 179; p. 6.
Bending-machine. H. W. Borden. No. 1,041,419; Oct. 15; Gaz. vol. 183; p. 656.
Bending-machine. F. T. Root. No. 1,042,276; Oct. 22; Gaz. vol. 183; p. 978.
Bending-tool. E. N. O. Dahlquist. No. 1,041,037; Oct. 15; Gaz. vol. 183; p. 526.
Berry-box. P. Henrich. No. 1,018,318; Feb. 20; Sp. p. 4599; Gaz. vol. 175; p. 790.
Berry-box. P. E. Snyder. No. 1,041,690; Oct. 15; Gaz. vol. 183; p. 745.
Berry-picker. W. Brandon. No. 1,020,881; Mar. 19; Sp. p. 3993; Gaz. vol. 176; p. 696.
Berry-picker. O. C. Weber. No. 1,023,697; Apr. 16; Sp. p. 4097; Gaz. vol. 177; p. 719.
Berry-picker. A. Dale. No. 1,038,302; Sept. 10; Gaz. vol. 182; p. 411.
Berth guard-rail, Upper-. H. O. Crippen. No. 1,014,126; Jan. 9; Sp. p. 2317; Gaz. vol. 174; p. 387.
Berth, Sleeping-car. C. Brandt. No. 1,036,553; Aug. 27; Gaz. vol. 181; p. 834.
Beton or concrete sleeper with resilient rail-supports. O. Wilhelmi. No. 1,017,028; Feb. 13; Sp. p. 1769; Gaz. vol. 175; p. 308.
Betulin suitable for the production of coating compositions thereof, Making. J. R. Köhler. No. 1,016,162; Jan. 30; Sp. p. 6722; Gaz. vol. 174; p. 1168.
Bevel and square, Combined. W. R. Buchanan. No. 1,039,891; Oct. 1; Gaz. vol. 183; p. 74.
Bevel-protractor. L. J. Fellay. No. 1,023,144; Apr. 16; Sp. p. 3009; Gaz. vol. 177; p. 540.
Bevel-protractor. J. Brandl. No. 1,028,425; June 4; Sp. p. 796; Gaz. vol. 179; p. 120.
Beveling machine, Automatic box-board-. L. S. Fletcher. No. 1,030,295; June 25; Sp. p. 4859; Gaz. vol. 179; p. 870.
Beveling machine, Disk-. W. C. Osterholm. No. 1,042,259; Oct. 22; Gaz. vol. 183; p. 973.
Beverage. J. Hölldampf. No. 1,027,336; May 21; Sp. p. 4958; Gaz. vol. 178; p. 835.
Beverage-carbonating machine. L. C. Paris and T. Millward. No. 1,038,191; Sept. 10; Gaz. vol. 182; p. 372.
Beverage-dispensing machine. C. E. Tomlinson. No. 1,026,635; May 14; Sp. p. 3381; Gaz. vol. 178; p. 557.
Beverage extract. W. H. Post. No. 1,031,962; July 9; Gaz. vol. 180; p. 429.
Beverage from honey, Making a. C. W. Dayton. No. 1,038,307; Sept. 10; Gaz. vol. 182; p. 412.
Beverage holding and dispensing device. J. Vergano. No. 1,047,722; Dec. 17; Gaz. vol. 185; p. 741.
Beverage, Making a liquid. C. N. Bourne. No. 1,042,074; Oct. 22; Gaz. vol. 183; p. 912.
Beverage-shaker. W. G. Barker. No. 1,042,751; Oct. 29; Gaz. vol. 183; p. 1173.
Beverages, Clarifying. H. Zwick. No. 1,045,245; Nov. 26; Gaz. vol. 184; p. 856.
Beverages, Compound for use in brewing fermented. L. Stein. No. 1,024,158; Apr. 23; Sp. p. 5145; Gaz. vol. 177; p. 903.
Beverages containing carbonic acid, Continuous manufacture by fermentation of. A. Römer. No. 1,043,361; Nov. 5; Gaz. vol. 184; p. 113.
Beverages, Finishing or preparing. J. F. Wittemann. No. 1,029,838; June 18; Sp. p. 3863; Gaz. vol. 179; p. 675.
Beverages, Making radio-active. H. H. Hewitt. No. 1,022,551; Apr. 9; Sp. p. 1681; Gaz. vol. 177; p. 298.
Beverages, Manufacture of fermented malt. R. Wahl. No. 1,023,448; Apr. 16; Sp. p. 3618; Gaz. vol. 177; p. 642.
Bib, Compression-. W. S. Arthur. No. 1,017,492; Feb. 13; Sp. p. 2790; Gaz. vol. 175; p. 471.
Bicycle-alarm. T. C. Holbrook. No. 1,041,474; Oct. 15; Gaz. vol. 183; p. 674.
Bicycle attachment. B. L. Howell. No. 1,030,844; June 25; Sp. p. 6421; Gaz. vol. 179; p. 1069.
Bicycle-frame, Spring. L. S. McClave. No. 1,014,888; Jan. 16; Sp. p. 4018; Gaz. vol. 174; p. 679.
Bicycle pedal mechanism. A. Mangiarotti. No. 1,020,299; Mar. 12; Sp. p. 2744; Gaz. vol. 176; p. 465.
Bicycle-saddle. D. S. Troxel. No. 1,022,447; Apr. 9; Sp. p. 1469; Gaz. vol. 177; p. 263.
Bicycle spring-fork. O. A. Eckre. No. 1,027,599; May 28; Sp. p. 5502; Gaz. vol. 178; p. 962.
Bicycle spring-seat. W. J. Sieffel. No. 1,039,328; Sept. 24; Gaz. vol. 182; p. 816.
Bicycle-stand. H. W. Zelinsky. No. 1,016,195; Jan. 30; Sp. p. 6779; Gaz. vol. 174; p. 1179.
Bicycle supplemental seat attachment. J. A. Turner. No. 1,045,220; Nov. 26; Gaz. vol. 184; p. 847.
Bicycle-support. C. S. Swaim. No. 1,020,327; Mar. 12; Sp. p. 2791; Gaz. vol. 176; p. 473.
Bicycle, Water-. H. Munsen. No. 1,034,278; July 30; Gaz. vol. 180; p. 1323.
Bicycles and the like, Propelling mechanism for. H. S. Corbitt. No. 1,015,996; Jan. 30; Sp. p. 6385; Gaz. vol. 174; p. 1111.
Bicycles, Book and bundle rack for. W. R. Hall. No. 1,039,192; Oct. 1; Gaz. vol. 183; p. 174.
Bier or coffin-truck, Collapsible. M. H. Smith. No. 1,032,630; July 16; Gaz. vol. 180; p. 698.
Biffle-bag. J. Knauss. No. 1,015,028; Jan. 16; Sp. p. 4322; Gaz. vol. 174; p. 727.
Bilge-discharging device. J. J. Hall. No. 1,023,843; Apr. 23; Sp. p. 4429; Gaz. vol. 177; p. 795.
Bilge-water ejector. J. Klett. No. 1,035,199; Aug. 13; Gaz. vol. 181; p. 297.
Bill-clip. A. F. Staples. No. 1,031,392; July 2; Gaz. vol. 180; p. 190.
Bill-fold. H. J. Collis. No. 1,026,787; May 21; Sp. p. 3737; Gaz. vol. 178; p. 647.
Billing device, Manifold. P. Hano. No. 1,044,649; Nov. 19; Gaz. vol. 184; p. 620.

Alphabetical list of inventions—Continued.

Billing-sheet, Multiform. E. Z. Lewis. No. 1,017,298; Feb. 13; Sp. p. 2365; Gaz. vol. 175; p. 403.
Billiard and pool table leveling device. J. F. Meyer and G. Leppenat. No. 1,025,707; May 7; Sp. p. 1324; Gaz. vol. 178; p. 206.
Billiard-chalk, &c., Holder for. J. Baker. No. 1,018,229; Feb. 20; Sp. p. 4429; Gaz. vol. 175; p. 761.
Billiard-counter. F. C. Hobbs. No. 1,031,266; July 2; Gaz. vol. 180; p. 148.
Billiard-cue. F. E. Cooper, H. W. Taneyhill, and G. K. Page. No. 1,018,032; Feb. 20; Sp. p. 3998; Gaz. vol. 175; p. 692.
Billiard-cue. W. Blaney. No. 1,022,173; Apr. 2; Sp. p. 893; Gaz. vol. 177; p. 142.
Billiard-cue tip. F. L. Dethloff. No. 1,018,744; Feb. 27; Sp. p. 5598; Gaz. vol. 175; p. 968.
Billiard-cue-tip holder. J. Le Duc. No. 1,033,071; July 16; Gaz. vol. 180; p. 848.
Billiard, &c., cues, Device for attaching tips to. J. Wallace and H. Clarke. No. 1,034,172; July 30; Gaz. vol. 180; p. 1286.
Billiard-cues, Device for fixing caps to. T. Detroyes. No. 1,038,310; Sept. 10; Gaz. vol. 182; p. 413.
Billiard-cues, Means for securing tips to. L. Peloquin. No. 1,029,943; June 18; Sp. p. 4098; Gaz. vol. 179; p. 711.
Billiard-table. W. F. Lawrenz. No. 1,036,277; Aug. 20; Gaz. vol. 181; p. 707.
Billiards and like games, Timing apparatus for. P. J. A. Lepage. No. 1,022,633; Apr. 9; Sp. p. 1858; Gaz. vol. 177; p. 325.
Bimetallic plates, Making. F. R. McBerty. No. 1,046,824; Dec. 10; Gaz. vol. 185; p. 396.
Bin: *See* Corn-bin; Grain-bin; Knockdown bin; Rotatable bin; Self-cleaning bin.
Bin. E. J. Walker. No. 1,027,945; May 28; Sp. p. 6271; Gaz. vol. 178; p. 1077.
Bin. W. C. Lamson. No. 1,046,810; Dec. 10; Gaz. vol. 185; p. 393.
Bin-door. O. H. Dickerson. No. 1,036,582; Aug. 27; Gaz. vol. 181; p. 845.
Bins, Discharging device for. W. Butler. No. 1,029,273; June 11; Sp. p. 2597; Gaz. vol. 179; p. 442.
Binder. D. A. Galantiere. No. 1,047,929; Dec. 24; Gaz. vol. 185; p. 841.
Binder and leaf therefor, Loose-leaf. W. H. Cooley. No. 1,013,746; Jan. 2; Sp. p. 1451; Gaz. vol. 174; p. 228.
Binder and leaf therefor, Loose-leaf. W. H. Cooley. No. 1,040,514; Oct. 8; Gaz. vol. 183; p. 314.
Binder and leaf therefor, Loose-leaf. W. H. Cooley. No. 1,044,752; Nov. 19; Gaz. vol. 184; p. 657.
Binder and leaf therefor, Loose-leaf. W. H. Cooley. No. 1,044,753; Nov. 19; Gaz. vol. 184; p. 657.
Binder clasping device, Loose-leaf-. R. M. Watson. No. 1,042,626; Oct. 29; Gaz. vol. 183; p. 1129.
Binder for sheet-music, &c. W. C. Richard. No. 1,047,567; Dec. 17; Gaz. vol. 185; p. 687.
Binder for tablets. D. A. Middleton. No. 1,046,481; Dec. 10; Gaz. vol. 185; p. 276.
Binder-frame. E. C. Moss. No. 1,030,675; June 25; Sp. p. 5897; Gaz. vol. 179; p. 1007.
Binder-frame. F. L. Manny. No. 1,038,616; Sept. 17; Gaz. vol. 182; p. 554.
Binder-gluing device. C. Holly. No. 1,034,710; Aug. 6; Gaz. vol. 181; p. 103.
Binder, Grain-. B. R. Benjamin. No. 1,029,741; June 18; Sp. p. 3640; Gaz. vol. 179; p. 641.
Binder-hooks, Forming. C. H. Wiley. No. 1,048,619; Dec. 31; Gaz. vol. 185; p. 1111.
Binder leaf-carrier, Loose-leaf-. H. B. Bristol. No. 1,023,715; Apr. 16; Sp. p. 4128; Gaz. vol. 177; p. 724.
Binder locking device, Loose-leaf-. J. Schade, Jr. No. 1,024,525; Apr. 30; Sp. p. 5980; Gaz. vol. 177; p. 1064.
Binder locking device, Temporary-. T. P. Halpin. No. 1,019,149; Mar. 5; Sp. p. 320; Gaz. vol. 176; p. 49.
Binder, Loose-leaf. C. E. Mossick. No. 1,015,203; Jan. 16; Sp. p. 4653; Gaz. vol. 174; p. 785.
Binder, Loose-leaf. A. E. Harling and G. B. Dobbin. No. 1,016,496; Feb. 6; Sp. p. 588; Gaz. vol. 175; p. 91.
Binder, Loose-leaf. W. Fairchild. No. 1,016,557; Feb. 6; Sp. p. 762; Gaz. vol. 175; p. 112.
Binder, Loose-leaf. A. Opalla. No. 1,017,165; Feb. 13; Sp. p. 2078; Gaz. vol. 175; p. 357.
Binder, Loose-leaf. W. P. Pitt. No. 1,017,797; Feb. 20; Sp. p. 3464; Gaz. vol. 175; p. 610.
Binder, Loose-leaf. L. M. Morehouse. No. 1,018,125; Feb. 20; Sp. p. 4214; Gaz. vol. 175; p. 725.
Binder, Loose-leaf. G. C. Moore. No. 1,018,770; Feb. 27; Sp. p. 5653; Gaz. vol. 175; p. 977.
Binder, Loose-leaf. E. H. Elder. No. 1,024,472; Apr. 23; Sp. p. 5812; Gaz. vol. 177; p. 1010.
Binder, Loose-leaf. C. D. Trussell. No. 1,025,170; May 7; Sp. p. 131; Gaz. vol. 178; p. 23.
Binder, Loose-leaf. S. H. Stein. No. 1,027,085; May 21; Sp. p. 4460; Gaz. vol. 178; p. 752.
Binder, Loose-leaf. E. E. Buchan. No. 1,027,523; May 28; Sp. p. 5344; Gaz. vol. 178; p. 936.
Binder, Loose-leaf. C. D. Trussell. No. 1,032,166; July 9; Gaz. vol. 180; p. 495.
Binder, Loose-leaf. W. G. Baldwin. No. 1,032,804; July 16; Gaz. vol. 180; p. 759.
Binder, Loose-leaf. F. S. Borgman. No. 1,032,809; July 16; Gaz. vol. 180; p. 761.
Binder, Loose-leaf. F. J. P. Kuhlmann. No. 1,033,107; July 23; Gaz. vol. 180; p. 898.
Binder, Loose-leaf. H. Hellweg. No. 1,035,087; Aug. 6; Gaz. vol. 181; p. 228.
Binder, Loose-leaf. L. M. Morden. No. 1,037,292; Sept. 3; Gaz. vol. 182; p. 38.
Binder, Loose-leaf. L. M. Morden. No. 1,037,293; Sept. 3; Gaz. vol. 182; p. 38.
Binder, Loose-leaf. W. S. Proudfit, Jr. No. 1,037,314; Sept. 3; Gaz. vol. 182; p. 45.
Binder, Loose-leaf. W. S. Proudfit, Jr. No. 1,037,315; Sept. 3; Gaz. vol. 182; p. 45.
Binder, Loose-leaf. B. Glaser. No. 1,039,047; Sept. 17; Gaz. vol. 182; p. 699.
Binder, Loose-leaf. E. Stanton. No. 1,039,207; Sept. 24; Gaz. vol. 182; p. 772.
Binder, Loose-leaf. H. C. Miller. No. 1,040,377; Oct. 8; Gaz. vol. 183; p. 267.
Binder, Loose-leaf. M. H. Baker. No. 1,040,992; Oct. 15; Gaz. vol. 183; p. 512.
Binder, Loose-leaf. J. T. Brink and E. Nordstrom. No. 1,042,313; Oct. 22; Gaz. vol. 183; p. 990.
Binder, Loose-leaf. R. M. Watson. No. 1,042,625; Oct. 29; Gaz. vol. 183; p. 1129.
Binder, Loose-leaf. H. C. Miller. No. 1,043,955; Nov. 12; Gaz. vol. 184; p. 351.
Binder, Loose-leaf. R. E. Gresser. No. 1,047,792; Dec. 17; Gaz. vol. 185; p. 765.
Binder, Loose-leaf. L. M. Morden. No. 1,048,852; Dec. 31; Gaz. vol. 185; p. 1193.
Binder, Loose-sheet. R. H. Whitehead. No. 1,042,735; Oct. 29; Gaz. vol. 183; p. 1167.
Binder, Magazine-. B. F. Westervelt. No. 1,014,926; Jan. 16; Sp. p. 4109; Gaz. vol. 174; p. 692.
Binder or cementing material. J. M. Neil. No. 1,030,114; June 18; Sp. p. 4454; Gaz. vol. 179; p. 769.
Binder or holder for sheets or pads. R. Krumming. No. 1,039,296; Sept. 24; Gaz. vol. 182; p. 805.
Binder or loose-sheet holder, Temporary. R. Krumming. No. 1,017,220; Feb. 13; Sp. p. 2216; Gaz. vol. 175; p. 376.
Binder or loose-sheet holder, Temporary. R. Krumming. No. 1,020,561; Mar. 19; Sp. p. 3303; Gaz. vol. 176; p. 589.
Binder or loose-sheet holder, Temporary. G. P. Wigginton and F. W. Hodges. No. 1,027,093; May 21; Sp. p. 4476; Gaz. vol. 178; p. 755.
Binder, Paper-. J. A. Byron. No. 1,040,506; Oct. 8; Gaz. vol. 183; p. 311.
Binder-post, Flexible. H. C. Miller. No. 1,019,174; Mar. 5; Sp. p. 378; Gaz. vol. 176; p. 59.
Binder, Temporary. A. L. Bunce. No. 1,019,020; Mar. 5; Sp. p. 15; Gaz. vol. 176; p. 5.
Binder, Temporary. M. E. Leeds. No. 1,020,995; Mar. 26; Sp. p. 4234; Gaz. vol. 176; p. 786.
Binder, Temporary. G. P. Wigginton. No. 1,022,452; Apr. 9; Sp. p. 1481; Gaz. vol. 177; p. 265.
Binder, Temporary. A. A. Hunziker. No. 1,023,566; Apr. 16; Sp. p. 3852; Gaz. vol. 177; p. 678.
Binder, Temporary. J. A. Mudd. No. 1,026,277; May 14; Sp. p. 2611; Gaz. vol. 178; p. 438.
Binder, Temporary. A. L. Crowson. No. 1,032,380; July 16; Gaz. vol. 180; p. 614.
Binding and folding machine. R. C. Seymour. No. 1,025,487; May 7; Sp. p. 854; Gaz. vol. 178; p. 133.
Binding-clip. N. Siff. No. 1,027,080; May 21; Sp. p. 4446; Gaz. vol. 178; p. 750.
Binding device. F. C. Rheubottom. No. 1,048,098; Dec. 24; Gaz. vol. 185; p. 896.
Binding device, Paper-sheet-. C. Thiem. No. 1,026,006; May 14; Sp. p. 1997; Gaz. vol. 178; p. 344.
Binding device, Temporary. E. C. Bigelow. No. 1,035,769; Aug. 13; Gaz. vol. 181; p. 492.
Binding-machine. C. S. Emmert. No. 1,014,212; Jan. 9; Sp. p. 2481; Gaz. vol. 174; p. 417.
Binding machine, Tablet-. W. L. Jacobie. No. 1,042,443; Oct. 29; Gaz. vol. 183; p. 1064.
Binding or cementing material. J. M. Neil. No. 1,023,674; Apr. 16; Sp. p. 4061; Gaz. vol. 177; p. 712.
Binding-post. A. A. Ziegler. No. 1,042,747; Oct. 29; Gaz. vol. 183; p. 1171.
Binding-post. P. E. Wiberg. No. 1,044,717; Nov. 19; Gaz. vol. 184; p. 644.
Binding-post, Combination. P. H. Capper and L. F. McCreary. No. 1,024,248; Apr. 23; Sp. p. 5349; Gaz. vol. 177; p. 937.
Binding-post, Universal. A. K. Sloan, Jr. No. 1,020,457; Mar. 19; Sp. p. 3066; Gaz. vol. 176; p. 555.
Binocular-loop. C. H. Pixley. No. 1,033,119; July 23, Gaz. vol. 180; p. 902.
Biological preparation for the production of intestinal peristalsis. G. Zuelzer. No. 1,034,856; Aug. 6; Gaz. vol. 181; p. 154.
Bird-cage protector. C. W. Stone. No. 1,015,766; Jan. 23; Sp. p. 5892; Gaz. vol. 174; p. 1004.
Bird-call. W. H. Saunders. No. 1,034,307; July 30; Gaz. vol. 180; p. 1332.

Alphabetical list of inventions—Continued.

Bird-trap. S. W. Evans. No. 1,029,053; June 11; Sp. p. 2137; Gaz. vol. 179; p. 368.
Biscuits and the like, Machine for the manufacture of filled. W. T. Carr. (Reissue.) No. 13,367; Feb. 13; Sp. p. 3073; Gaz. vol. 175; p. 518.
Bit: *See* Auger-bit; Bridle-bit; Carpenter's bit; Coal-boring bit; Curb and snaffle bit; Drill-bit; Drilling-bit; Rotary bit.
Bit and tap and die chuck. W. L. Procunier. No. 1,037,796; Sept. 3; Gaz. vol. 182; p. 206.
Bit-frame. E. S. Lagarde and P. A. Angenend, Jr. No. 1,023,021; Apr. 9; Sp. p. 2696; Gaz. vol. 177; p. 460.
Blackboard. E. L. Kraus. No. 1,026,809; May 21; Sp. p. 3780; Gaz. vol. 178; p. 654.
Blackboard, Folding-desk. E. L. Kraus. No. 1,015,498; Jan. 23; Sp. p. 5324; Gaz. vol. 174; p. 913.
Blackboard-marker. B. E. Green. No. 1,023,561; Apr. 16; Sp. p. 3843; Gaz. vol. 177; p. 677.
Blacking and polishing machine, Shoe. J. A. Bean. No. 1,030,702; June 25; Sp. p. 5953; Gaz. vol. 179; p. 1017.
Blacking-box. C. W. Levalley. No. 1,031,350; July 2; Gaz. vol. 180; p. 176.
Blacking-box opener and holder. V. Frank. No. 1,018,106; Feb. 20; Sp. p. 4173; Gaz. vol. 175; p. 718.
Blacking-box or the like. C. Stupian. No. 1,041,694; Oct. 15; Gaz. vol. 183; p. 746.
Blacking-dauber. W. F. Porter. No. 1,018,339; Feb. 20; Sp. p. 4636; Gaz. vol. 175; p. 797.
Blacking-machine. F. M. Furber. No. 1,025,523; May 7; Sp. p. 932; Gaz. vol. 178; p. 145.
Blacking machine, Heel-. F. M. Furber. No. 1,015,433; Jan. 23; Sp. p. 5176; Gaz. vol. 174; p. 890.
Blacksmith's-post-drill attachment. T. D. Hickman. No. 1,033,695; July 23; Gaz. vol. 180; p. 1093.
Blade-lashing. F. Hodgkinson. No. 1,016,942; Feb. 13; Sp. p. 1580; Gaz. vol. 175; p. 279.
Blade-lashing means. C. E. Sweet. No. 1,023,892; Apr. 23; Sp. p. 4539; Gaz. vol. 177; p. 812.
Blade-mounting. W. B. Flanders. No. 1,020,750; Mar. 19; Sp. p. 3724; Gaz. vol. 176; p. 653.
Blade-mounting. W. A. Bole. No. 1,026,651; May 21; Sp. p. 3441; Gaz. vol. 178; p. 600.
Blade-protecting knife. W. R. Laine. No. 1,024,086; Apr. 23; Sp. p. 4964; Gaz. vol. 177; p. 878.
Blade-securing means. W. B. Flanders. No. 1,026,087; May 14; Sp. p. 2213; Gaz. vol. 178; p. 373.
Blade-securing means. F. Hodgkinson. No. 1,046,390; Dec. 3; Gaz. vol. 185; p. 207.
Blade-tie. C. E. Sweet. No. 1,026,719; May 21; Sp. p. 3580; Gaz. vol. 178; p. 624.
Blank-handling mechanism. W. T. Dulin. No. 1,023,138; Apr. 16; Sp. p. 2989; Gaz. vol. 177; p. 538.
Blank-holding device. R. L. Wilcox. No. 1,046,700; Dec. 10; Gaz. vol. 185; p. 355.
Blank packing and counting mechanism. E. G. Staude. No. 1,018,087; Feb. 20; Sp. p. 4125; Gaz. vol. 175; p. 711.
Blank-pressing machine. M. W. O'Brien. No. 1,034,493; Aug. 6; Gaz. vol. 181; p. 31.
Blank, Protected. C. H. W. Koerner. No. 1,048,708; Dec. 31; Gaz. vol. 185; p. 1143.
Blank-severing mechanism. J. C. Wright. No. 1,043,996; Nov. 12; Gaz. vol. 184; p. 366.
Blanks, Feeding mechanism for machines for cutting and creasing. J. E. Erickson. No. 1,023,558; Apr. 16; Sp. p. 3831; Gaz. vol. 177; p. 676.
Blanks, Mechanism for feeding angular-formed. B. F. Rindfleisch. No. 1,037,320; Sept. 3; Gaz. vol. 182; p. 47.
Blanks or sheets, Feed device for flexible. E. G. Staude. No. 1,033,040; July 16; Gaz. vol. 180; p. 836.
Blanket, Animal-. W. M. Lyman. No. 1,028,581; June 4; Sp. p. 1129; Gaz. vol. 179; p. 172.
Blanket-fastener. W. A. Schleicher. No. 1,028,138; June 4; Sp. p. 131; Gaz. vol. 179; p. 20.
Blanket-fastener. D. E. Barton. No. 1,042,753; Oct. 29; Gaz. vol. 183; p. 1173.
Blast-furnace. M. McMurray. No. 1,024,801; Apr. 30; Sp. p. 6601; Gaz. vol. 177; p. 1160.
Blast-furnace. A. J. Moxham. No. 1,036,137; Aug. 20; Gaz. vol. 181; p. 657.
Blast-furnace. C. Hicks. No. 1,039,282; Sept. 24; Gaz. vol. 182; p. 800.
Blasting device. L. E. M. and T. S. Harris. No. 1,015,021; Jan. 16; Sp. p. 4306; Gaz. vol. 174; p. 724.
Blasting implement. N. Ruschel and J. F. Bodey. No. 1,036,343; Aug. 20; Gaz. vol. 181; p. 730.
Bleaching. E. Steiger. No. 1,034,658; Aug. 6; Gaz. vol. 181; p. 84.
Bleaching and dyeing machine. T. Frusher. No. 1,024,003; Apr. 23; Sp. p. 4784; Gaz. vol. 177; p. 849.
Bleaching apparatus. E. Herzog. No. 1,026,583; May 14; Sp. p. 3263; Gaz. vol. 178; p. 539.
Bleaching apparatus. R. Weiss. No. 1,036,941; Aug. 27; Gaz. vol. 181; p. 962.
Bleaching apparatus. E. D. Jefferson. No. 1,044,185; Nov. 12; Gaz. vol. 184; p. 428.
Bleaching liquids, Manufacture of. H. Wilsing. No. 1,023,287; Apr. 16; Sp. p. 3305; Gaz. vol. 177; p. 590.
Bleaching old papers, paper-stock, straw, &c. J. H. Melchers. No. 1,032,229; July 9; Gaz. vol. 180; p. 510.
Bleaching process. E. L. Maupai. No. 1,032,151; July 9; Gaz. vol. 180; p. 490.
Bleaching straw. P. E. Wickham. No. 1,027,953; May 28; Sp. p. 6283; Gaz. vol. 178; p. 1080.
Blend-making machine for staple goods. A. I. Gerry. No. 1,034,996; Aug. 6; Gaz. vol. 181; p. 199.
Blind, Folding. J. F. Lessing. No. 1,037,938; Sept. 10; Gaz. vol. 182; p. 289.
Blind, Folding window-. G. W. Wearn. No. 1,019,567; Mar. 5; Sp. p. 1267; Gaz. vol. 176; p. 189.
Blind, Metal-slat Venetian. W. H. Hannam. No. 1,022,415; Apr. 9; Sp. p. 1379; Gaz. vol. 177; p. 253.
Blind-slat fastener. B. Jäckle. No. 1,039,291; Sept. 24; Gaz. vol. 182; p. 803.
Blind-slat fastening. R. M. Franklin. No. 1,047,033; Dec. 10; Gaz. vol. 185; p. 465.
Blind-slat-locking device. R. M. Franklin. No. 1,047,032; Dec. 10; Gaz. vol. 185; p. 465.
Blind-slat tip. W. O. Daly. No. 1,015,144; Jan. 16; Sp p. 4541; Gaz. vol. 174; p. 766.
Blind-stop. G. E. Labit. No. 1,024,994; Apr. 30; Sp. p. 6990; Gaz. vol. 177; p. 1228.
Blind, Venetian. O. Gothert. No. 1,043,095; Nov. 5; Gaz. vol. 184; p. 16.
Blind, Window-. T. McIntosh. No. 1,013,417; Jan. 2; Sp. p. 726; Gaz. vol. 174; p. 114.
Blind, Window-. L. H. Manning. No. 1,029,814; June 18; Sp. p. 3799; Gaz. vol. 179; p. 667.
Blinds, Locking device for the controlling cords of window-. J. A. Hedberg. No. 1,036,232; Aug. 20; Gaz. vol. 181; p. 692.
Bloat-needle. W. F. Sweet. No. 1,045,906; Dec. 3; Gaz. vol. 185; p. 38.
Block: *See* Anvil and swage block; Bolster-block; Breech-block; Building-block; Cap-block; Chock-block; Concrete block; Cutting-block; Die-block; Flashing-block; Fuse-block; Jeweler's bench-block; Micrometer sizing-block; Paving-block; Pulley-block; Sheave-block; Sliding block; Snatch-block; Space-block; Thrust-block; Type-block; Wire-drawing block; Wire-rope block; Wiring-block.
Block and tackle. W. Harris. No. 1,043,928; Nov. 12; Gaz. vol. 184; p. 341.
Block and tile machine, Combination. J. E. Runner. No. 1,017,917; Feb. 20; Sp. p. 3755; Gaz. vol. 175; p. 653.
Block-making machine. H. H. Pierce. No. 1,038,646; Sept. 17; Gaz. vol. 182; p. 564.
Block-molding machine. A. McHench. No. 1,028,241; June 4; Sp. p. 401; Gaz. vol. 179; p. 56.
Block or hoisting-gear. L. Tabulo. No. 1,014,728; Jan. 16; Sp. p. 3649; Gaz. vol. 174; p. 624.
Block-signal system. L. A. Hawkins. No. 1,027,046; May 21; Sp. p. 4346; Gaz. vol. 178; p. 737.
Block-signal system. L. A. Hawkins. No. 1,038,364; Sept. 10; Gaz. vol. 182; p. 430.
Block-signal system. G. H. Smith. No. 1,041,686; Oct. 15; Gaz. vol. 183; p. 743.
Block-signal system. W. A. Lacke. No. 1,045,043; Nov. 19; Gaz. vol. 184; p. 757.
Block signaling system and safety apparatus. M. Conrad. No. 1,031,529; July 2; Gaz. vol. 180; p. 236.
Block structure, Interlocking-. A. Haas. No. 1,013,156; Jan. 2; Sp. p. 138; Gaz. vol. 174; p. 24.
Block-surfacing machine. G. Rosino, E. M. Bevard, and J. Herrig. No. 1,047,707; Dec. 17; Gaz. vol. 185; p. 736.
Blocks. K. Gjorup and T. Petersen. No. 1,021,594; Mar. 26; Sp. p. 5519; Gaz. vol. 176; p. 991.
Blocks, Manufacturing artificial. M. P. Andrews. No. 1,031,505; July 2; Gaz. vol. 180; p. 228.
Blood or its constituents and making same, Compounds of. E. Scheitlin. No. 1,015,641; Jan. 23; Sp. p. 5629; Gaz. vol. 174; p. 963.
Blood-pressure-determining device. B. R. Hoobler. No. 1,043,521; Nov. 5; Gaz. vol. 184; p. 171.
Blotter-holder. D. H. Fitzgerald. No. 1,018,416; Feb. 27; Sp. p. 4839; Gaz. vol. 175; p. 857.
Blotting-pad. C. A. Smith. No. 1,043,545; Nov. 5; Gaz. vol. 184; p. 179.
Blouse. A. P. Lubell. No. 1,034,127; July 30; Gaz. vol. 180; p. 1269.
Blouse. W. H. Brooker. No. 1,043,505; Nov. 5; Gaz. vol. 184; p. 166.
Blower attachment, Soot-. A. V. Bayer. No. 1,028,180; June 4; Sp. p. 282; Gaz. vol. 179; p. 35.
Blower, Boiler-. L. Sprenger. No. 1,026,060; May 14; Sp. p. 2132; Gaz. vol. 178; p. 362.
Blower divided impeller. T. W. Green. No. 1,030,083; June 18; Sp. p. 4397; Gaz. vol. 179; p. 759.
Blower, Fluid-jet. T. Gruenwald. No. 1,023,078; Apr. 9; Sp. p. 2816; Gaz. vol. 177; p. 479.
Blower for boilers. H. A. Higgins. No. 1,016,993; Feb. 13; Sp. p. 1703; Gaz. vol. 175; p. 297.
Blower for boilers. H. A. Higgins. No. 1,016,994; Feb. 13; Sp. p. 1704; Gaz. vol. 175; p. 297.
Blower for boilers. H. A. Higgins. No. 1,042,676; Oct. 29; Gaz. vol. 183; p. 1147.

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Blower for boilers, Soot-. A. V. Bayer. No. 1,036,953; Aug. 27; Gaz. vol. 181; p. 967.
Blower for forges, Air-. J. T. McIntyre. No. 1,030,418; June 25; Sp. p. 5141; Gaz. vol. 179; p. 916.
Blower or pump. A. W. Pearsall. No. 1,035,385; Aug. 13; Gaz. vol. 181; p. 364.
Blower or pump, Rotary. J. T. Hope. No. 1,043,936; Nov. 12; Gaz. vol. 184; p. 344.
Blower, Positive. W. W. Green. No. 1,029,186; June 11; Sp. p. 2419; Gaz. vol. 179; p. 412.
Blower, Positive-pressure. H. S. Levy and G. H. Brandes. No. 1,019,499; Mar. 5; Sp. p. 1142; Gaz. vol. 176; p. 167.
Blower, Turbine-. P. H. Kane. No. 1,017,001; Feb. 13; Sp. p. 1716; Gaz. vol. 175; p. 299.
Blower-unloading device. J. G. Maclaren. No. 1,047,959; Dec. 24; Gaz. vol. 185; p. 850.
Blowers and pumps, Construction of rotary. A. E. Clifton. No. 1,021,180; Mar. 26; Sp. p. 4617; Gaz. vol. 176; p. 847.
Blowers, Casing for impellers of rotary. T. W. Green. No. 1,046,773; Dec. 10; Gaz. vol. 185; p. 381.
Blowing-engine. J. F. M. Patitz. No. 1,016,577; Feb. 6; Sp. p. 803; Gaz. vol. 175; p. 119.
Blowing soot. T. E. White. No. 1,046,522; Dec. 10; Gaz. vol. 185; p. 292.
Blowpipe. B. L. Kissel. No. 1,028,363; June 4; Sp. p. 659; Gaz. vol. 179; p. 99.
Blowpipe. J. W. Whitford. No. 1,028,410; June 4; Sp. p. 764; Gaz. vol. 179; p. 115.
Blowpipe. W. Kirkwood. No. 1,029,691; June 18; Sp. p. 3516; Gaz. vol. 179; p. 624.
Blowpipe. A. G. Le Chatelier. No. 1,032,071; July 9; Gaz. vol. 180; p. 464.
Blowpipe. A. G. Le Chatelier. No. 1,032,072; July 9; Gaz. vol. 180; p. 464.
Blowpipe. C. E. Johnson. No. 1,038,381; Sept. 10; Gaz. vol. 182; p. 437.
Blowpipe. M. K. Dunham. No. 1,039,036; Sept. 17; Gaz. vol. 182; p. 696.
Blowpipe. J. Harris. No. 1,044,651; Nov. 19; Gaz. vol. 184; p. 620.
Blowpipe-carrier. G. Nevergold. No. 1,017,450; Feb. 13; Sp. p. 2716; Gaz. vol. 175; p. 457.
Blowpipe-system adjuster. P. C. Miller. No. 1,028,376; June 4; Sp. p. 684; Gaz. vol. 179; p. 104.
Blowpipe-torch. A. J. Eddy. No. 1,044,362; Nov. 12; Gaz. vol. 184; p. 490.
Board: *See* Backboard; Bolt-board; Bulletin-board; Car running-board; Cardboard; Checker-board; Cloth-board; Cooling-board; Drawing-board; Follower-board; Fly-board; Game-board; Ironing-board; Letter-board; Leather-board; Moldboard; Panel-board; Paper-board; Piano sounding-board; Piece-goods core-board; Pin-pool board; Pitch-board; Plaster-board; Plow-mold-board; Score-board; Scrubbing-board; Service-board; Shoveling or waste-preventing board; Slicing-board; Stock-quotation board; Target-board; Toilet-board; Tracker-board; Washboard.
Board-clamp. H. F. Morehead. No. 1,018,070; Feb. 20; Sp. p. 4100; Gaz. vol. 175; p. 705.
Board-edge trimming and shaping machine. G. E. Wilton. No. 1,015,528; Jan. 23; Sp. p. 5379; Gaz. vol. 174; p. 922.
Board machine, Cellular-. T. H. Taylor. No. 1,035,266; Aug. 13; Gaz. vol. 181; p. 320.
Boat. E. C. Clostermeyer. No. 1,018,809; Feb. 27; Sp. p. 5733; Gaz. vol. 175; p. 989.
Boat. B. T. Delafield. No. 1,022,725; Apr. 9; Sp. p. 2094; Gaz. vol. 177; p. 360.
Boat. F. X. Resch. No. 1,024,419; Apr. 23; Sp. p. 5693; Gaz. vol. 177; p. 991.
Boat. W. H. Williams. No. 1,026,336; May 14; Sp. p. 2754; Gaz. vol. 178; p. 460.
Boat. C. S. Westover. No. 1,033,220; July 23; Gaz. vol. 180; p. 937.
Boat. F. S. Millican. No. 1,038,176; Sept. 10; Gaz. vol. 182; p. 367.
Boat. C. L. Menzel. No. 1,038,928; Sept. 17; Gaz. vol. 182; p. 664.
Boat. A. E. Apel. No. 1,042,636; Oct. 29; Gaz. vol. 183; p. 1132.
Boat and airship, Combined. J. Wymore. No. 1,023,404; Apr. 16; Sp. p. 3531; Gaz. vol. 177; p. 629.
Boat and automobile combined, Convertible motor-. H. A. Mitchell. No. 1,047,271; Dec. 17; Gaz. vol. 185; p. 582.
Boat and boat propulsion. W. A. Hickman. No. 1,044,176; Nov. 12; Gaz. vol. 184; p. 426.
Boat attachment, Life-. A. E. Wickman. No. 1,026,137; May 14; Sp. p. 2311; Gaz. vol. 178; p. 390.
Boat, car, or carriage. J. H. S. Bartholomew and E. F. Heath. No. 1,046,721; Dec. 10; Gaz. vol. 185; p. 363.
Boat, Convertible. W. Offenburger. No. 1,048,337; Dec. 24; Gaz. vol. 185; p. 976.
Boat-detaching apparatus. W. Coulter. No. 1,021,353; Mar. 26; Sp. p. 4975; Gaz. vol. 176; p. 908.
Boat-handling device. G. W. Swedenborg. No. 1,046,675; Dec. 10; Gaz. vol. 185; p. 345.
Boat hoisting and lowering device, Life-. A. P. Lundin. No. 1,025,818; May 7; Sp. p. 1555; Gaz. vol. 178; p. 246.
Boat hull, Submarine-. V. Cavallini. No. 1,044,489; Nov. 19; Gaz. vol. 184; p. 563.
Boat-lashing device. W. Coulter. No. 1,014,123; Jan. 9; Sp. p. 2313; Gaz. vol. 174; p. 386.
Boat-launching apparatus, Life-. E. G. Perrot. No. 1,035,464; Aug. 13; Gaz. vol. 181; p. 390.
Boat, Life-. H. Mintz. No. 1,033,607; July 23; Gaz. vol. 180; p. 1065.
Boat, Life-. C. and A. A. Jenkins. No. 1,040,340; Oct. 8; Gaz. vol. 183; p. 255.
Boat, Life-. J. E. Erickson. No. 1,043,914; Nov. 12; Gaz. vol. 184; p. 336.
Boat, Life-. P. E. Bütow. No. 1,049,205; Dec. 31, Gaz. vol. 185; p. 1313.
Boat lift and shaft-hanger, Combined. H. Mathew. No. 1,034,110; July 30; Gaz. vol. 180; p. 1264.
Boat-model, Experimental. M. Hovhannessian. No. 1,033,699; July 23; Gaz. vol. 180; p. 1094.
Boat, Motor-. J. D. Muller. No. 1,041,328; Oct. 15; Gaz. vol. 183; p. 626.
Boat, Motor-. C. H. Myers. No. 1,041,849; Oct. 22; Gaz. vol. 183; p. 837.
Boat, Non-capsizing. J. H. Van Viersin. No. 1,028,644; June 4; Sp. p. 1252; Gaz. vol. 179; p. 193.
Boat-releasing appliance, Life-. D. Senacol. No. 1,026,469; May 14; Sp. p. 3043; Gaz. vol. 178; p. 502.
Boat-saddle. E. Gunnell. No. 1,048,068; Dec. 24; Gaz. vol. 185; p. 885.
Boat, Screw-cylinder. H. C. Berry. No. 1,041,232; Oct. 15; Gaz. vol. 183; p. 592.
Boat-shaft lock, Motor-. M. T. Baird. No. 1,013,835; Jan. 2; Sp. p. 1622; Gaz. vol. 174; p. 259.
Boat-shafts, Adjustable bearing for. M. Hemmer. No. 1,037,621; Sept. 3; Gaz. vol. 182; p. 148.
Boat, Stone-. M. J. Quinlan. No. 1,038,959; Sept. 17; Gaz. vol. 182; p. 673.
Boat storing and launching means, Life-. H. A. Seymour. No. 1,033,430; July 23; Gaz. vol. 180; p. 1023.
Boat, Submarine. A. Ehrmann. No. 1,014,959; Jan. 16; Sp. p. 4178; Gaz. vol. 174; p. 703.
Boat, Submarine. R. O. King. No. 1,017,103; Feb. 13; Sp. p. 1954; Gaz. vol. 175; p. 336.
Boat, Submarine or submergible. E. L. Peacock. No. 1,037,519; Sept. 3; Gaz. vol. 182; p. 116.
Boat supporting and lowering apparatus, Life-. J. E. Erickson. No. 1,043,915; Nov. 12; Gaz. vol. 184; p. 336.
Boat, Torpedo-. H. Maxim. No. 1,028,473; June 4; Sp. p. 909; Gaz. vol. 179; p. 136.
Boat, Tug-. T. F. Cox. No. 1,024,119; Apr. 23; Sp. p. 5057; Gaz. vol. 177; p. 891.
Boat, Unsinkable. G. Pitre. No. 1,035,046; Aug. 6; Gaz. vol. 181; p. 214.
Boats and ships, Construction of. W. H. Fauber. No. 1,024,682; Apr. 30; Sp. p. 6348; Gaz. vol. 177; p. 1119.
Boats, Apparatus for stowing and launching ships'. A. R. Nyboer. No. 1,040,741; Oct. 8; Gaz. vol. 183; p. 396.
Boats, Buoy attachment for submarine. G. F. Keating. No. 1,014,398; Jan. 9; Sp. p. 2916; Gaz. vol. 174; p. 483.
Boats, Conning mechanism for submarine. T. S. Bailey. No. 1,037,191; Sept. 3; Gaz. vol. 182; p. 5.
Boats for launching, Mechanism for preparing. J. Mc Goldrick. No. 1,022,432; Apr. 9; Sp. p. 1444; Gaz. vol. 177; p. 259.
Boats, Hydraulic transmission for. P. G. Marx and L. Brucker. No. 1,035,458; Aug. 13; Gaz. vol. 181; p. 388.
Boats of ships and the like, Holding and disengaging gear for the. T. I. Macaulay. No. 1,016,840; Feb. 6; Sp. p. 1341; Gaz. vol. 175; p. 207.
Boats to the water, Carrying and lowering of. P. R. Arnott. No. 1,047,877; Dec. 17; Gaz. vol. 185; p. 794.
Bobbin. A. Wormser. No. 1,030,219; June 18; Sp. p. 4677; Gaz. vol. 179; p. 804.
Bobbin-boring machine. N. Demers. No. 1,031,108; July 2; Gaz. vol. 180; p. 92.
Bobbin-grip. F. H. Stetson and R. N. Allen. No. 1,036,161; Aug. 20; Gaz. vol. 181; p. 665.
Bobbin-holder. A. E. Rhoades. No. 1,026,603; May 14; Sp. p. 3302; Gaz. vol. 178; p. 546.
Bobbin-holder. B. A. Peterson. No. 1,045,879; Dec. 3; Gaz. vol. 185; p. 29.
Bobbin-holding device. F. R. Hatch. No. 1,015,023; Jan. 16; Sp. p. 4309; Gaz. vol. 174; p. 725.
Bobbin-stripper. W. Walmsley. No. 1,028,408; June 4; Sp. p. 760; Gaz. vol. 179; p. 115.
Bobbin-stripper. W. B. Leathers. No. 1,048,324; Dec. 24; Gaz. vol. 185; p. 971.
Bobbin-stripper. J. T. Brazell. No. 1,048,802; Dec. 31; Gaz. vol. 185; p. 1176.
Bobbin-turning machine. W. C. Farnum. No. 1,038,499; Sept. 10; Gaz. vol. 182; p. 478.
Bobbins and loopers, Mechanism for supplying thread to. F. Baker. No. 1,029,335; June 11; Sp. p. 2757; Gaz. vol. 179; p. 465.
Body lifter and conveyer. G. W. Seashole. No. 1,033,277; July 23; Gaz. vol. 180; p. 957.

Alphabetical list of inventions—Continued.

Body-protector. J. C. Phelps. No. 1,021,376; Mar. 26; Sp. p. 5011; Gaz. vol. 176; p. 915.
Body-support, Invalid's. E. S. Weaver. No. 1,043,648; Nov. 5; Gaz. vol. 184; p. 214.
Boiler: *See* Clothes-boiler; Heating-boiler; Hot-water and steam boiler; Kitchen-boiler; Locomotor-boiler; Marine boiler; Meat-boiler; Sectional boiler; Steam-boiler; Steam-generating boiler; Superheater-boiler; Wash boiler; Water-tube boiler; Water-tube sectional boiler.
Boiler. F. Pacziga. No. 1,015,065; Jan. 16; Sp. p. 4400; Gaz. vol. 174; p. 739.
Boiler. W. J. Ellis. No. 1,016,484; Feb. 6; Sp. p. 563; Gaz. vol. 175; p. 87.
Boiler. J. T. Brown. No. 1,021,759; Apr. 2; Sp. p. 8; Gaz. vol. 177; p. 4.
Boiler. F. Guay. No. 1,026,800; May 21; Sp. p. 3765; Gaz. vol. 178; p. 651.
Boiler. E. W. Wise. No. 1,037,391; Sept. 3; Gaz. vol. 182; p. 72.
Boiler. C. W. Seddon. No. 1,038,004; Sept. 10; Gaz. vol. 182; p. 311.
Boiler. W. H. Winslow. No. 1,046,132; Dec. 3; Gaz. vol. 185; p. 114.
Boiler. W. H. Winslow. No. 1,046,133; Dec. 3; Gaz. vol. 185; p. 115.
Boiler. W. Johnson. No. 1,047,647; Dec. 17; Gaz. vol. 185; p. 715.
Boiler and burner, Combination. D. Burroughs. No. 1,016,398; Feb. 6; Sp. p. 366; Gaz. vol. 175; p. 58.
Boiler and press, Combined. J. A. Dietz. No. 1,033,387; July 23; Gaz. vol. 180; p. 994.
Boiler and stove, Combination. S. C. Swindler. No. 1,045,634; Nov. 26; Gaz. vol. 184; p. 994.
Boiler attachment, Clothes-. E. J. Schowalter. No. 1,020,578; Mar. 19; Sp. p. 3349; Gaz. vol. 176; p. 595.
Boiler-casings, &c., Closure for. C. D. Mosher. No. 1,043,451; Nov. 5; Gaz. vol. 184; p. 145.
Boiler-cleaner. E. S. Cline. No. 1,022,063; Apr. 2; Sp. p. 660; Gaz. vol. 177; p. 105.
Boiler-cleaner. A. V. Bayer. No. 1,026,141; May 14; Sp. p. 2319; Gaz. vol. 178; p. 392.
Boiler-cleaner. L. J. Bayer. No. 1,028,083; May 28; Sp. p. 6573; Gaz. vol. 178; p. 1121.
Boiler-cleaner. A. V. Bayer and G. P. Brown. No. 1,028,179; June 4; Sp. p. 280; Gaz. vol. 179; p. 35.
Boiler-cleaner container, Metal-. F. A. Ives. No. 1,034,711; Aug. 6; Gaz. vol. 181; p. 104.
Boiler-cleaner, Soot. L. J. Bayer. No. 1,032,583; July 16; Gaz. vol. 180; p. 681.
Boiler construction. D. D. Shierk. No. 1,042,044; Oct. 22; Gaz. vol. 183; p. 903.
Boiler device, Steam-. L. E. Hankison and W. E. Stumm. No. 1,021,597; Mar. 26; Sp. p. 5523; Gaz. vol. 176; p. 991.
Boiler draft-controlling apparatus, Steam-. W. E. Snow. No. 1,034,039; July 30; Gaz. vol. 180; p. 1240.
Boiler draft-regulator, Fire-tube-. C. H. McCall. No. 1,023,949; Apr. 23; Sp. p. 4683; Gaz. vol. 177; p. 831.
Boiler-economizer. F. Sargent and D. S. Jacobus. No. 1,048,739; Dec. 31; Gaz. vol. 185; p. 1153.
Boiler-feeding apparatus. N. E. Nash. No. 1,031,955; July 9; Gaz. vol. 180; p. 426.
Boiler-flue-cleaner system. D. E. Hibner. No. 1,041,079; Oct. 15; Gaz. vol. 183; p. 541.
Boiler-flue-cleaner system. D. E. Hibner and F. W. Linaker. No. 1,041,080; Oct. 15; Gaz. vol. 183; p. 542.
Boiler-flue-cleaner system. J. Moore. No. 1,041,141; Oct. 15; Gaz. vol. 183; p. 562.
Boiler-flue rattler. E. T. Hendee. No. 1,023,379; Apr. 16; Sp. p. 3475; Gaz. vol. 177; p. 620.
Boiler for heating apparatus and hot-water supply, Combination-. H. B. and E. S. Donald. No. 1,028,555; June 4; Sp. p. 1072; Gaz. vol. 179; p. 163.
Boiler fuel and water regulator, Steam-. R. Miehle. No. 1,026,761; May 21; Sp. p. 3675; Gaz. vol. 178; p. 638.
Boiler-furnace. C. A. Midgley. No. 1,036,299; Aug. 20; Gaz. vol. 181; p. 714.
Boiler-furnace. W. Lemb. No. 1,042,573; Oct. 29; Gaz. vol. 183; p. 1110.
Boiler furnace, Locomotive-. J. H. Grove. No. 1,033,006; July 16; Gaz. vol. 180; p. 825.
Boiler furnace, Locomotive-. J. H. Grove. No. 1,033,007; July 16; Gaz. vol. 180; p. 825.
Boiler furnace, Locomotive-. J. H. Grove. No. 1,033,008; July 16; Gaz. vol. 180; p. 826.
Boiler furnace, Steam-. H. A. Poppenhusen and J. Harrington. No. 1,027,667; May 28; Sp. p. 5639; Gaz. vol. 178; p. 984.
Boiler furnace, Steam-. J. B. Stanwood. No. 33,355; July 23; Gaz. vol. 180; p. 983.
Boiler furnace, Steam-. E. C. Mills. No. 1,041,325; Oct. 15; Gaz. vol. 183; p. 625.
Boiler-gage connection. A. V. Williams. No. 1,025,354; May 7; Sp. p. 551; Gaz. vol. 178; p. 86.
Boiler gage, Steam-. A. D. and B. A. Hunsicker. No. 1,041,628; Oct. 15; Gaz. vol. 183; p. 723.
Boiler-grate. J. L. Newton. No. 1,028,902; June 11; Sp. p. 1815; Gaz. vol. 179; p. 316.
Boiler-head cap-seats, Tool for cleaning. W. T. Hogarth and D. K. Deal. No. 1,026,442; May 14; Sp. p. 2981; Gaz. vol. 178; p. 494.
Boiler header, Water-tube-. B. F. Safberg. No. 1,039,815; Oct. 1; Gaz. vol. 183; p. 49.
Boiler-insert. W. M. Greaves. No. 1,037,241; Sept. 3; Gaz. vol. 182; p. 22.
Boiler-mounting, Adjustable. L. D. Shryock. No. 1,015,592; Jan. 23; Sp. p. 5527; Gaz. vol. 174; p. 946.
Boiler or fluid-heater, Steam-. I. Benjamins. No. 1,029,908; June 18; Sp. p. 4023; Gaz. vol. 179; p. 699.
Boiler-plate stay. C. and C. E. Ward. No. 1,020,235; Mar. 12; Sp. p. 2626; Gaz. vol. 176; p. 445.
Boiler-regulator. C. C. Worthington. No. 1,026,190; May 14; Sp. p. 2421; Gaz. vol. 178; p. 407.
Boiler regulator, Flash-. A. Doble. No. 1,030,983; July 2; Gaz. vol. 180; p. 46.
Boiler regulator, Liquid-. A. Carpenter. No. 1,029,975; June 18; Sp. p. 4162; Gaz. vol. 179; p. 721.
Boiler safety apparatus, Steam-. H. Neville. No. 1,015,703; Jan. 23; Sp. p. 5766; Gaz. vol. 174; p. 983.
Boiler safety attachment. W. P. Smith. No. 1,040,800; Oct. 8; Gaz. vol. 183; p. 414.
Boiler safety device. R. J. Hogan. No. 1,036,494; Aug. 20; Gaz. vol. 181; p. 781.
Boiler stand, Range-. C. L. Holden. No. 1,036,240; Aug. 20; Gaz. vol. 181; p. 695.
Boiler stay-bolt. B. E. D. Stafford. No. 1,042,833; Oct. 29; Gaz. vol. 183; p. 1201.
Boiler stay-bolt construction, Steam-. J. H. McCloy and A. M. Brown. No. 1,025,706; May 7; Sp. p. 1322; Gaz. vol. 178; p. 206.
Boiler stay-bolt, Flexible. B. E. D. Stafford. No. 1,042,831; Oct. 29; Gaz. vol. 183; p. 1200.
Boiler stay-bolt, Flexible. B. E. D. Stafford. No. 1,042,832; Oct. 29; Gaz. vol. 183; p. 1200.
Boiler-stays from the effects of heat, Device for protecting the ends and nuts of. R. Christie. No. 1,046,973; Dec. 10; Gaz. vol. 185; p. 446.
Boiler structure, Steam-. H. H. Tracy and H. E. Boyrie. No. 1,022,647; Apr. 9; Sp. p. 1892; Gaz. vol. 177; p. 330.
Boiler-stud connection. J. Shelton. No. 1,037,553; Sept. 3; Gaz. vol. 182; p. 128.
Boiler, superheater, and like tubes, Apparatus for sealing and cleaning steam-. A. B. Kendal and J. A. Collinson. No. 1,028,075; May 28; Sp. p. 6555; Gaz. vol. 178; p. 1118.
Boiler superheater, Steam-. H. D. Taylor. No. 1,013,968; Jan. 9; Sp. p. 1968; Gaz. vol. 174; p. 334.
Boiler superheater, Steam-. W. Dalton. No. 1,031,693; July 9; Gaz. vol. 180; p. 335.
Boiler-timing device. F. W. Wood. No. 1,038,495; Sept. 10; Gaz. vol. 182; p. 477.
Boiler-tube cleaner. A. Ashton. No. 1,033,653; July 23; Gaz. vol. 180; p. 1081.
Boiler-tube cleaner. R. W. Hamann. No. 1,037,245; Sept. 3; Gaz. vol. 182; p. 24.
Boiler-tube-cleaner connection. H. Cassidy. No. 1,020,635; Mar. 19; Sp. p. 3470; Gaz. vol. 176; p. 613.
Boiler-tube cleaners, Motor device for. F. H. Riehemann and H. Boehning. No. 1,028,136; June 4; Sp. p. 126; Gaz. vol. 179; p. 19.
Boiler-tube crimper. J. J. Kerrigan. No. 1,042,121; Oct. 22; Gaz. vol. 183; p. 928.
Boiler-tube leak-stopper. C. S. Clark. No. 1,043,298; Nov. 5; Gaz. vol. 184; p. 89.
Boiler-tube scraper. C. J. Wright and B. Bell. No. 1,040,088; Oct. 1; Gaz. vol. 183; p. 139.
Boiler-tubes, Tool for spreading. A. P. Gerald. No. 1,014,459; Jan. 9; Sp. p. 3029; Gaz. vol. 174; p. 502.
Boiler washing and filling system. F. W. Miller. No. 1,032,076; July 9; Gaz. vol. 180; p. 465.
Boiler water-alarm, Steam-. G. J. Gibney. No. 1,022,936; Apr. 9; Sp. p. 2546; Gaz. vol. 177; p. 431.
Boilers, &c., Alarm water-column for. J. A. Jamison. No. 1,045,294; Nov. 26; Gaz. vol. 184; p. 872.
Boilers and other containers, Section for. G. R. Henderson. No. 1,025,697; May 7; Sp. p. 1304; Gaz. vol. 178; p. 203.
Boilers, Apparatus for purifying water for use in steam-. C. W. Rice. No. 1,035,813; Aug. 13; Gaz. vol. 181; p. 508.
Boilers, Apparatus for removing scale and the like from. H. Pontani. No. 1,045,742; Nov. 26; Gaz. vol. 184; p. 1031.
Boilers, Circulating-tube for steam-. L. Parish. No. 1,049,140; Dec. 31; Gaz. vol. 185; p. 1291.
Boilers, Dead-plate for. J. W. Chambers. No. 1,025,368; May 7; Sp. p. 588; Gaz. vol. 178; p. 91.
Boilers, Device for collecting sediment in steam-. E. P. Hewitt. No. 1,035,877; Aug. 20; Gaz. vol. 181; p. 567.
Boilers, Direct feed-chamber for. R. O. Thomas. No. 1,043,644; Nov. 5; Gaz. vol. 184; p. 212.
Boilers, Electric heating system for. J. F. McElroy. No. 1,030,672; June 25; Sp. p. 5890; Gaz. vol. 179; p. 1007.
Boilers, Hot-water washing and refilling system for locomotive-. W. A. Powers. No. 1,023,441; Apr. 16; Sp. p. 3597; Gaz. vol. 177; p. 639.

Alphabetical list of inventions—Continued.

Boilers, &c., Machine for forming lugs for. W. Horsley. No. 1,027,480; May 28; Sp. p. 5255; Gaz. vol. 178; p. 922.
Boilers, Manufacture of steam-. H. H. Tracy and H. E. Boyrie. No. 1,025,337; May 7; Sp. p. 510; Gaz. vol. 178; p. 80.
Boilers, Means for protecting water-gage tubes of steam-. G. E. E. Degeorgis. No. 1,014,456; Jan. 9; Sp. p. 3027; Gaz. vol. 174; p. 502.
Boilers, Pressure-regulator for. J. F. Hey. No. 1,025,954; May 7; Sp. p. 1890; Gaz. vol. 178; p. 290.
Boilers, Pressure-regulator for steam-. A. Halecki. No. 1,032,136; July 9; Gaz. vol. 180; p. 484.
Boilers, Soot-blower for steam-. W. H. Nutter. No. 1,032,495; July 16; Gaz. vol. 180; p. 653.
Boilers, Soot-cleaner for steam-. W. J. Bradley. No. 1,037,422; Sept. 3; Gaz. vol. 182; p. 83.
Boilers, Supplying fuel and water to. H. Lemp. No. 1,041,640; Oct. 15; Gaz. vol. 183; p. 727.
Boilers, Water-glass fixture for steam-. H. B. Robinson. No. 1,020,623; Mar. 19; Sp. p. 3443; Gaz. vol. 176; p. 609.
Boiling apparatus, Water-. R. Mackay. No. 1,026,592; May 14; Sp. p. 3280; Gaz vol. 178; p. 542.
Boiling device, Safety. L. O. Layman. No. 1,024,791; Apr. 30; Sp. p. 6583; Gaz. vol. 177; p. 1158.
Bolster. A. E. Ostrander. No. 1,021,743; Mar. 26; Sp. p. 5787; Gaz. vol. 176; p. 1039.
Bolster. J. M. Rohlfing. No. 1,029,086; June 11; Sp. p. 2216; Gaz. vol. 179; p. 379.
Bolster-block. J. N. Nuckalls. No. 1,036,310; Aug. 20; Gaz. vol. 181; p. 718.
Bolster, &c., brace. A. Fulk. No. 1,020,410; Mar. 19; Sp. p. 2974; Gaz. vol. 176; p. 539.
Bolster-spring. J. F. Bickel. No. 1,042,312; Oct. 22; Gaz. vol. 183; p. 990.
Bolster-spring. C. L. Thompson. No. 1,042,500; Oct. 29; Gaz. vol. 183; p. 1085.
Bolt: *See* Anchor-bolt; Apertured bolt; Boiler stay-bolt; Door-bolt; Door and window bolt; Door safety-bolt; Expansible bolt; Expansion-bolt; Fish-plate bolt; Lock bolt; Locking-bolt; Stay-bolt; Toggle-bolt; Wedge-bolt
Bolt. J. A. Dumbier. No. 1,018,887; Feb. 27; Sp. p. 5891; Gaz. vol. 175; p. 1015.
Bolt. H. B. and C. L. Steinhouse. No. 1,028,795; June 4; Sp. p. 1560; Gaz. vol. 179; p. 244.
Bolt-anchor. J. Kennedy. No. 1,025,275; May 7; Sp. p. 359; Gaz. vol. 178; p. 59.
Bolt anchor device. B. Frank and A. O. Lundberg. No. 1,034,607; Aug. 6; Gaz. vol. 181; p. 68.
Bolt anchor, Expansion-. H. W. Pleister. No. 1,021,794; Apr. 2; Sp. p. 77; Gaz. vol. 177; p. 17.
Bolt and locking device therefor. N. Schell. No. 1,038,664; Sept. 17; Gaz. vol. 182; p. 570.
Bolt and nut. A. Goldsman. No. 1,035,118; Aug. 6; Gaz. vol. 181; p. 238.
Bolt and nut lock. R. C. Kirby. No. 1,023,430; Apr. 16; Sp. p. 3577; Gaz. vol. 177; p. 636.
Bolt and nut lock. H. L. Huggins. No. 1,035,089; Aug. 6; Gaz. vol. 181; p. 229.
Bolt-blanks, Device for automatically holding. T. F. Kelly. No. 1,046,802; Dec. 10; Gaz. vol. 185; p. 391.
Bolt-board and sample-holder, Combined. G. A. Holtz. No. 1,014,304; Jan. 9; Sp. p. 2691; Gaz. vol. 174; p. 449.
Bolt-clipper. M. K. Barron. No. 1,024,432; Apr. 23; Sp. p. 5712; Gaz. vol. 177; p. 994.
Bolt connection, Compensating. C. F. Kahler. No. 1,046,600; Dec. 10; Gaz. vol. 185; p. 318.
Bolt coupling, Automatic wedge-. H. C. Long. No. 1,030,902; July 2; Gaz. vol. 180; p. 18.
Bolt-cutting machine. F. A. Gillette. No. 1,023,013; Apr. 9; Sp. p 2680; Gaz. vol. 177; p. 457.
Bolt, Expansion-. H. W. Mower. No. 1,033,447; July 23; Gaz. vol. 180; p. 1012.
Bolt-extractor. J. A. Magnusson. No. 1,019,718; Mar. 5; Sp. p. 1537; Gaz. vol. 176; p. 239.
Bolt-extractor. S. D. Luke. No. 1,046,617; Dec. 10; Gaz. vol. 185; p. 324.
Bolt for piston follower-plates. H. W. Davis. No. 1,018,741; Feb. 27; Sp. p. 5586; Gaz. vol. 175; p. 966.
Bolt-head-trimming machine. R. H. Smith. No. 1,031,094; July 2; Gaz. vol. 180; p. 87.
Bolt-heading tool. H. E. Gideons. No. 1,031,782; July 9; Gaz. vol. 180; p. 366.
Bolt-holder. J. A. Schlehr. No. 1,016,296; Feb. 6; Sp. p. 131; Gaz. vol. 175; p. 21.
Bolt-holder. W. J. Neal. No. 1,031,574; July 2; Gaz. vol. 180; p. 252.
Bolt-lock. E. E. Davenport. No. 1,016,554; Feb. 6; Sp. p. 759; Gaz. vol. 175; p. 111.
Bolt-lock. E. E. Ellmann. No. 1,033,163; July 23; Gaz. vol. 180; p. 917.
Bolt-operating mechanism. W. Strouse and W. E. Clark. No. 1,019,282; Mar. 5; Sp. p. 619; Gaz. vol. 176; p. 96.
Bolt-operator. E. Hoyaux. No. 1,016,502; Feb. 6; Sp. p. 614; Gaz. vol. 175; p. 94.
Bolt-retainer. N. C. Thalheimer. No. 1,034,533; Aug. 6; Gaz. vol. 181; p. 44.
Bolt threading and slotting mechanism. G. A. J. Hainsworth. No. 1,018,706; Feb. 27; Sp. p. 5506; Gaz. vol. 175; p. 954.
Bolt-threading machine. A. B. Landis. No. 1,017,878; Feb. 20; Sp. p. 3656; Gaz. vol. 175; p. 637.
Bolt-trimming machine. J. A. Collins. No. 1,042,089; Oct. 22; Gaz. vol. 183; p. 918.
Bolts, &c., Automatic detent mechanism for sliding. F. G. Tua. No. 1,039,615; Sept. 24; Gaz. vol. 182; p. 915.
Bolts, Manufacturing. F. M. Patterson. No. 1,034,643; Aug. 6; Gaz. vol. 181; p. 79.
Bolts, rivets, and similar articles, Manufacturing. H. Müller. No. 1,029,395; June 11; Sp. p. 2903; Gaz. vol. 179; p. 485.
Bolting-cloth cleaner. S. Snyder. No. 1,021,008; Mar. 26; Sp. p. 4257; Gaz. vol. 176; p. 791.
Bolting-machine, Gyratory. W. D. Gray. No. 1,014,388; Jan. 9; Sp. p. 2898; Gaz. vol. 174; p. 480.
Bonnet. C. T. Voelker. No. 1,046,690; Dec. 10; Gaz. vol. 185; p. 351.
Book. P. S. H. Newell. No. 1,028,130; June 4; Sp. p. 81; Gaz. vol. 179; p. 17.
Book. C. W. Mears. No. 1,042,707; Oct. 29; Gaz. vol. 183; p. 1157.
Book, Account-. W. O. Johnson. No. 1,013,659; Jan. 2; Sp. p. 1256; Gaz. vol. 174; p. 197.
Book and bill-file, Combined pass-. F. W. Kimmel. No. 1,037,264; Sept. 3; Gaz. vol. 182; p. 30.
Book and file, Combined blank. F. W. Lea. No. 1,043,365; Nov. 5; Gaz. vol. 184; p. 115.
Book and leaves therefor. J. Walker, Jr. No. 1,018,459; Feb. 27; Sp. p. 4924; Gaz. vol. 175; p. 870.
Book and pad holder. G. W. Newton. No. 1,042,589; Oct. 29; Gaz. vol. 183; p. 1116.
Book and pamphlet making machine. C. Gitzendanner. No. 1,028,708; June 4; Sp. p. 1371; Gaz. vol. 179; p. 213.
Book, Card and address. J. F. Davidson. No. 1,043,511; Nov. 5; Gaz. vol. 184; p. 168.
Book construction, Loose-leaf-. E. W. Hill. No. 1,035,878; Aug. 20; Gaz. vol. 181; p. 568.
Book-cover attachment. W. P. Pitt. No. 1,017,796; Feb. 20; Sp. p. 3463; Gaz. vol. 175; p. 609.
Book-cover holder. R. Krumming. No. 1,037,024; Aug. 27; Gaz. vol. 181; p. 992.
Book-feeder. W. P. Sargent. No. 1,033,951; July 30; Gaz. vol. 180; p. 1208.
Book for deliberative bodies, Minute-. H. Doebler. No. 1,028,085; May 28; Sp. p. 6578; Gaz. vol. 178; p. 1122.
Book-holder. A. B. and C. L. Johnson. No. 1,016,635; Feb. 6; Sp. p. 934; Gaz. vol. 175; p. 140.
Book-holder. R. H. Smith. No. 1,016,970; Feb. 13; Sp. p. 1645; Gaz. vol. 175; p. 289.
Book-holder. G. J. Flanagan. No. 1,021,183; Mar. 26; Sp. p. 4625; Gaz. vol. 176; p. 848.
Book-holder. E. R. Lundius. No. 1,021,614; Mar. 26; Sp. p. 5549; Gaz. vol. 176; p. 996.
Book-holder. J. S. Maxwell. No. 1,026,523; May 14; Sp. p. 3155; Gaz. vol. 178; p. 521.
Book-holder. I. M. Clark. No. 1,029,668; June 18; Sp. p. 3460; Gaz. vol. 179; p. 614.
Book-holder. M. P. Beecher. No. 1,033,660; July 23; Gaz. vol. 180; p. 1083.
Book-holder. A. E. Wood. No. 1,035,290; Aug. 13; Gaz. vol. 181; p. 329.
Book-holder. J. R. Burnett. No. 1,038,280; Sept. 10; Gaz. vol. 182; p. 403.
Book-holder. S. Kobzy. No. 1,041,101; Oct. 15; Gaz. vol. 183; p. 549.
Book holder, Manifolding-sales-. N. F. Garbo. No. 1,016,222; Jan. 30; Sp. p. 6830; Gaz. vol. 174; p. 1187.
Book-lock. H. D. Snyder. No. 1,025,724; May 7; Sp. p. 1368; Gaz. vol. 178; p. 213.
Book, Loose-leaf. L. D. Hamacher. No. 1,020,948; Mar. 19; Sp. p. 4121; Gaz. vol. 176; p. 719.
Book, Loose-leaf. F. E. Housh. No. 1,025,468; May 7; Sp. p. 810; Gaz. vol. 178; p. 126.
Book, Loose-leaf. F. E. Housh. No. 1,029,369; June 11; Sp. p. 2835; Gaz. vol. 179; p. 476.
Book, Loose-leaf. F. W. Gostick. No. 1,048,956; Dec. 31; Gaz. vol. 185; p. 1228.
Book, Loose-leaf record-. G. W. Thomas. No. 1,033,356; July 23; Gaz. vol. 180; p. 983.
Book, Manifold-. P. Auscher and C. Dehainault. No. 1,025,113; Apr. 30; Sp. p. 7229; Gaz. vol. 177; p. 1266.
Book, Manifold sales-. L. G. Whitney. No. 1,026,289; May 14; Sp. p. 2640; Gaz. vol. 178; p. 442.
Book, Manifold sales-. G. Mefort. No. 1,039,166; Sept. 24; Gaz. vol. 182; p. 756.
Book, Manifolding-. B. C. Maxwell. No. 1,043,330; Nov. 5; Gaz. vol. 184; p. 102.
Book, Manifolding sales-. R. J. Wood. No. 1,023,910; Apr. 23; Sp. p. 4589; Gaz. vol. 177; p. 818.
Book, Manifolding sales-. E. K. Bottle. No. 1,024,496; Apr. 30; Sp. p. 5891; Gaz. vol. 177; p. 1053.
Book, Manifolding sales-. E. K. Bottle. No. 1,040,498; Oct. 8; Gaz. vol. 183; p. 308.
Book, Manifolding sales-. W. Greig. No. 1,043,588; Nov. 5; Gaz. vol. 184; p. 194.
Book, Manifolding sales-. W. Greig. No. 1,047,933; Dec. 24; Gaz. vol. 185; p. 842.

Alphabetical list of inventions—Continued.

Book, Manifolding sales-. E. K. Bottle. No. 1,048,028; Dec. 24; Gaz. vol. 185; p. 872.
Book, Manifolding sales-. E. K. Bottle. No. 1,048,029; Dec. 24; Gaz. vol. 185; p. 872.
Book, Manifolding sales-. W. Assheton. No. 1,048,383; Dec. 24; Gaz. vol. 185; p. 992.
Book, Mechanical account-. W. G. Hopkins. No. 1,028,465; June 4; Sp. p. 885; Gaz. vol. 179; p. 133.
Book, Memorandum-. J. Marks. No. 1,041,500; Oct. 15; Gaz. vol. 183; p. 682.
Book, Mileage-. M. E. Sparks. No. 1,025,595; May 7; Sp. p. 1096; Gaz. vol. 178; p. 170.
Book or pamphlet binding machine. R. C. Seymour. No. 1,048,899; Dec. 31; Gaz. vol. 185; p. 1208.
Book or pamphlet making machine. J. D. Morgan. No. 1,021,325; Mar. 26; Sp. p. 4912; Gaz. vol. 176; p. 898.
Book-page-recording device. H. P. Eilers. No. 1,018,816; Feb. 27; Sp. p. 5754; Gaz. vol. 175; p. 992.
Book, Picture-. F. U. Wagner. No. 1,028,921; June 11; Sp. p. 1860; Gaz. vol. 179; p. 322.
Book, Pocket memorandum-. A. Mieden. No. 1,025,007; Apr. 30; Sp. p. 7014; Gaz. vol. 177; p. 1232.
Book-protecting device. B. M. Fletcher. No. 1,021,832; Apr. 2; Sp. p. 182; Gaz. vol. 177; p. 30.
Book-rack. E. Oldenbusch. No. 1,022,150; Apr. 2; Sp. p. 845; Gaz. vol. 177; p. 134.
Book-remover. M. A. McQuillan. No. 1,025,415; May 7; Sp. p. 677; Gaz. vol. 178; p. 107.
Book rest and receptacle, Combined. H. H. Edwards. No. 1,035,430; Aug. 13; Gaz. vol. 181; p. 379.
Book rest, Open-. W. J. Walsh. No. 1,017,120; Feb. 13; Sp. p. 1986; Gaz. vol. 175; p. 341.
Book rest, Open-. W. J. Walsh. No. 1,017,121; Feb. 13; Sp. p. 1988; Gaz. vol. 175; p. 342.
Book-rings, Multiple. L. M. Morden. No. 1,046,836; Dec. 10; Gaz. vol. 185; p. 401.
Book, Sales-. E. K. Bottle. No. 1,042,637; Oct. 29; Gaz. vol. 183; p. 1133.
Book, Sample-. J. P. Tirrill. No. 1,041,703; Oct. 15; Gaz. vol. 183; p. 749.
Book-stack, Metallic. E. L. Krag. No. 1,030,472; June 25; Sp. p. 5271; Gaz. vol. 179; p. 935.
Book-stand, Album. G. Polverino. No. 1,017,460; Feb. 13; Sp. p. 2729; Gaz. vol. 175; p. 460.
Book-support, Adjustable. B. T. Phelps. No. 1,014,974; Jan. 16; Sp. p. 4213; Gaz. vol. 174; p. 709.
Book-support, Adjustable knockdown. C. B. French. No 1,037,140; Aug. 27; Gaz. vol. 181; p. 1030.
Book support or holder. R. E. Jones. No. 1,049,101; Dec. 31; Gaz. vol. 185; p. 1279.
Book-support, Transparent. M. D. Stevenson. No. 1,017,698; Feb. 20; Sp. p. 3189; Gaz. vol. 175; p. 574.
Book, Time-. J. M. Spiker. No. 1,038,452; Sept. 10; Gaz. vol. 182; p. 464.
Book-trimming-machine adjustable block. O. G. Klugel. No. 1,035,200; Aug. 13; Gaz. vol. 181; p. 297.
Books and pads, Manufacture of manifold-writing. F. Heitzmann. No. 1,021,776; Apr. 2; Sp. p. 41; Gaz. vol. 177; p. 10.
Books and the like, Inserted-leaf holder for. F. T. Loftin and G. W. Everett. No. 1,025,096; Apr. 30; Sp. p. 7197; Gaz. vol. 177; p. 1261.
Books, Casing-in machine for. W. L. Norton. (Reissue.) No. 13,412; Apr. 30; Sp. p. 7241; Gaz. vol. 177; p. 1269.
Books in covering-machines, Device for applying adhesive material to the backs of. C. A. Juengst. No. 1,023,569; Apr. 16; Sp. p. 3862; Gaz. vol. 177; p. 680.
Books, papers, &c., Adjustable support for. C. T. Hard. No. 1,026,506; May 14; Sp. p. 3120; Gaz. vol. 178; p. 515.
Bookbinder. W. Feldmann. No. 1,044,765; Nov. 19; Gaz. vol. 184; p. 661.
Bookbinder. R. J. Nicholson. No. 1,045,168; Nov. 26; Gaz. vol. 184; p. 828.
Bookbinder's pad-making machine. E. Biggs. No. 1,034,339; July 30; Gaz. vol. 180; p. 1343.
Bookbinding. H. N. Yerger. No. 1,021,908; Apr. 2; Sp. p. 328; Gaz. vol. 177; p. 54.
Bookbinding. J. G. Gareis. No. 1,023,466; Apr. 16; Sp. p. 3645; Gaz. vol. 177; p. 647.
Bookbinding. J. G. Gareis. No. 1,023,834; Apr. 23; Sp. p. 4413; Gaz. vol. 177; p. 793.
Bookbinding-machine. D. E. Woodbull. No. 1,037,097; Aug. 27; Gaz. vol. 181; p. 1016.
Bookcase, Folding. S. H. Fanning. No. 1,032,054; July 9; Gaz. vol. 180; p. 458.
Bookcase or the like. J. E. Bezold. No. 1,015,722; Jan. 23; Sp. p. 5801; Gaz. vol. 174; p. 989.
Bookcase, Rotary. G. A. Lavoie. No. 1,013,664; Jan. 2; Sp. p. 1265; Gaz. vol. 174; p. 199.
Bookkeeping-machine. G. E. Johanson. No. 1,034,243; July 30; Gaz. vol. 180; p. 1311.
Bookkeeping-machine. G. E. Johanson. No. 1,043,601; Nov. 5; Gaz. vol. 184; p. 198.
Boot and like stretcher. C. Funk. No. 1,032,597; July 16; Gaz. vol. 180; p. 686.
Boot and shoe. E. E. Waite. No. 1,015,364; Jan. 23; Sp. p. 5026; Gaz. vol. 174; p. 867.
Boot and shoe. P. Dosch. No. 1,022,537; Apr. 9; Sp. p. 1651; Gaz. vol. 177; p. 293.
Boot and shoe. A. H. Spitz and A. Kessler. No. 1,041,185; Oct. 15; Gaz. vol. 183; p. 577.
Boot and shoe box-toe. J. D. Brown and W. A. Stubbs. No. 1,037,426; Sept. 3; Gaz. vol. 182; p. 84.
Boot and shoe clamping device. W. W. Townsend and W. L. Gosselin. No. 1,013,627; Jan. 2; Sp. p. 1165; Gaz. vol. 174; p. 185.
Boot and shoe cleaner. J. B. Clayton. No. 1,033,673; July 23; Gaz. vol. 180; p. 1086.
Boot and shoe cleaner. J. Connor. No. 1,045,518; Nov. 26; Gaz. vol. 184; p. 952.
Boot and shoe cleaning and polishing apparatus. E. Wurmser. No. 1,020,008; Mar. 12; Sp. p. 2136; Gaz. vol. 176; p. 368.
Boot and shoe cleaning and polishing machine. E. E. Lineback. No. 1,019,672; Mar. 5; Sp. p. 1454; Gaz. vol. 176; p. 224.
Boot and shoe cleaning device. N. M. T. Olsen. No. 1,033,613; July 23; Gaz. vol. 180; p. 1068.
Boot and shoe finishing machine. F. L. Alley. No. 1,015,866; Jan. 30; Sp. p. 6101; Gaz. vol. 174; p. 1064.
Boot and shoe finishing machine. W. Jackson and H. N. Pochin. No. 1,026,954; May 21; Sp. p. 4140; Gaz. vol. 178; p. 706.
Boot and shoe making. F. W. Ward. No. 1,030,952; July 2; Gaz. vol. 180; p. 35.
Boot and shoe sole edges, Machine for operating on. J. B. Hadaway. No. 1,026,032; May 14; Sp. p. 2062; Gaz. vol. 178; p. 353.
Boot and shoe sole edges, Machine for operating on. J. B. Hadaway and J. V. Allen. No. 1,026,033; May 14; Sp. p. 2064; Gaz. vol. 178; p. 354.
Boot and shoe stamping machine. W. Gordon and L. E. Topham. No. 1,028,567; June 4; Sp. p. 1093; Gaz. vol. 179; p. 166.
Boot and shoe toe case, puff, or the like. G. Looms. No. 1,015,500; Jan. 23; Sp. p. 5326; Gaz. vol. 174; p. 913.
Boot and shoe upper shaping machine. E. Langenohl. No. 1,036,649; Aug. 27; Gaz. vol. 181; p. 867.
Boot and shoe uppers, Machine for forming. K. Engel. No. 1,027,408; May 28; Sp. p. 5119; Gaz. vol. 178; p. 899.
Boot attachment. F. B. Farrington. No. 1,047,398; Dec. 17; Gaz. vol. 185; p. 626.
Boot-cleaner. P. Schneider. No. 1,042,977; Oct. 29; Gaz. vol. 183; p. 1249.
Boot-cleaner. A. M. Fairfield. No. 1,047,624; Dec. 17; Gaz. vol. 185; p. 707.
Boot-holder. W. D. Gilbert. No. 1,038,344; Sept. 10; Gaz. vol. 182; p. 424.
Boot or shoe. M. Brihaye. No. 1,021,819; Apr. 2; Sp. p. 149; Gaz. vol. 177; p. 26.
Boot or shoe calk. J. B. Murphy. No. 1,022,106; Apr. 2; Sp. p. 747; Gaz. vol. 177; p. 119.
Boot or shoe calk. J. B. Hart. No. 1,025,087; Apr. 30; Sp. p. 7171; Gaz. vol. 177; p. 1257.
Boot or shoe polishing machine. R. M. Smith. No. 1,032,866; July 16; Gaz. vol. 180: p. 779.
Boot or shoe sole-edge protector. T. G. Plant. No. 1,026,048; May 14; Sp. p. 2108; Gaz. vol. 178; p. 358.
Boot-tree. C. Funk. No. 1,018,608; Feb. 27; Sp. p. 5309; Gaz. vol. 175; p. 921.
Boot-tree, Pneumatic. A. H. M. Grune. No. 1,048,826; Dec. 31; Gaz. vol. 185; p. 1185.
Boot, Waterproof. G. R. Wyman. No. 1,022,994; Apr. 9; Sp. p. 2642; Gaz. vol. 177; p. 451.
Boots and shoes, Beating-machine for finishing. F. L. Alley. No. 1,030,374; June 25; Sp. p. 5044; Gaz. vol. 179; p. 900.
Boots and shoes, Machine for assembling parts of. O. Ashton. No. 1,014,631; Jan. 16; Sp. p. 3433; Gaz. vol. 174; p. 591.
Boots and shoes, Machine for assembling parts of. O. Ashton. No. 1,023,794; Apr. 23; Sp. p. 4275; Gaz. vol. 177; p. 778.
Boots and shoes, Machine for operating on. L. J. Bazzoni. No. 1,029,842; June 18; Sp. p. 3877; Gaz. vol. 179; p. 676.
Boots and shoes, Machine for operating upon. E. E. Winkley. No. 1,030,627; June 25; Sp. p. 5770; Gaz. vol. 179; p. 991.
Boots and shoes, Machine for the manufacture of. O. Ashton. No. 1,030,762; June 25; Sp. p. 6110; Gaz. vol. 179; p. 1038.
Boots and shoes, Machine for the manufacture of. A. L. Russell. No. 1,033,945; July 30; Gaz. vol. 180; p. 1206.
Boots and shoes, Machine for the manufacture of. A. L. Russell. No. 1,033,946; July 30; Gaz. vol. 180; p. 1206.
Boots and shoes, Machine for use in manufacture of. J. H. Brown and J. Gouldbourn. No. 1,014,046; Jan. 9; Sp. p. 2147; Gaz. vol. 174; p. 359.
Boots and shoes, Machine for use in the manufacture of. A. Bates. No. 1,017,370; Feb. 13; Sp. p. 2516; Gaz. vol. 175; p. 427.
Boots and shoes, Machine for use in the manufacture of. J. P. Pride and A. Bates. No. 1,019,085; Mar. 5; Sp. p. 169; Gaz. vol. 176; p. 28.
Boots and shoes, Machine for use in the manufacture of. J. B. Hadaway. No. 1,019,956; Mar. 12; Sp. p. 2031; Gaz. vol. 176; p. 351.

Alphabetical list of inventions—Continued.

Boots and shoes, Machine for use in the manufacture of. F. H. Warren. No. 1,023,284; Apr. 16; Sp. p. 3301; Gaz. vol. 177; p. 590.
Boots and shoes, Machine for use in the manufacture of. A. L. Engberg. No. 1,023,826; Apr. 23; Sp. p. 4391; Gaz. vol. 177; p. 789.
Boots and shoes, Machine for use in the manufacture of. C. S. Norden. No. 1,023,954; Apr. 23; Sp. p. 4691; Gaz. vol. 177; p. 832.
Boots and shoes, Machine for use in the manufacture of. A. Perri. No. 1,024,019; Apr. 23; Sp. p. 4810; Gaz. vol. 177; p. 855.
Boots and shoes, Machine for use in the manufacture of. A. L. Russell. No. 1,024,599; Apr. 30; Sp. p. 6168; Gaz. vol. 177; p. 1089.
Boots and shoes, Machine for use in the manufacture of. O. Ashton. No. 1,032,356; July 9; Gaz. vol. 180; p. 562.
Boots and shoes, Machine for use in the manufacture of. W. Manship. No. 1,048,187; Dec. 24; Gaz. vol. 185; p. 926.
Boots and shoes, Machine for use in the manufacture of. F. Fleury. No. 1,048,514; Dec. 31; Gaz. vol. 185; p. 1075.
Boots and shoes, Machine for use in the manufacture of. H. Sundhoff. No. 1,048,602; Dec. 31; Gaz. vol. 185; p. 1105.
Boots and shoes, Making. F. E. Ewell. No. 1,017,742; Feb. 20; Sp. p. 3294; Gaz. vol. 175; p. 589.
Boots and shoes, Making. A. L. Russell. No. 1,033,947; July 30; Gaz. vol. 180; p. 1206.
Boots and shoes, Making. J. A. Scanlon. No. 1,034,035; July 30; Gaz. vol. 180; p. 1239.
Boots and shoes, Pulling-over and toe-lasting machine for use in the manufacture of. P. Bohaček. No. 1,023,194; Apr. 16; Sp. p. 3120; Gaz. vol. 177; p. 558.
Boots and shoes, Pulling-over machine for use in the manufacture of. R. E. Crain. No. 1,016,480; Feb. 6; Sp. p. 557; Gaz. vol. 175; p. 86.
Boots, &c., Fudging-tool for. F. Richter. No. 1,043,461; Nov. 5; Gaz. vol. 184; p. 149.
Booth. C. J. Burton. No. 1,035,315; Aug. 13; Gaz. vol. 181; p. 338.
Booth, Folding election-. E. N. Kevitt and J. Gemeinhardt. No. 1,045,854; Dec. 3; Gaz. vol. 185; p. 21.
Bore-hole, Means for straightening or altering the direction or course of a F. G. Seineke. No. 1,022,705; Apr. 9; Sp. p. 2037; Gaz. vol. 177; p. 352.
Borer, Bung-. A. E. Eager. No. 1,046,747; Dec. 10; Gaz. vol. 185; p. 371.
Boring and drilling machine. A. Bank. No. 1,018,153; Feb. 20; Sp. p. 4279; Gaz. vol. 175; p. 735.
Boring and reaming tool, Combined. C. Karpa. No. 1,032,682; July 16; Gaz. vol. 180; p. 717.
Boring and tunneling machine, Shaft. W. F. Wittich. No. 1,043,185; Nov. 5; Gaz. vol. 184; p. 50.
Boring and turning bar and bar-holder. C. A. Palmgren. No. 1,014,412; Jan. 9; Sp. p. 2943; Gaz. vol. 174; p. 488.
Boring and well-driving apparatus, Hydraulic. A. N. Spooner. No. 1,036,364; Aug. 20; Gaz. vol. 181; p. 737
Boring apparatus, Universal. W. Bowden. No. 1,046,956; Dec. 10; Gaz. vol. 185; p. 441.
Boring-bar. I. W. Sprink. No. 1,024,656; Apr. 30; Sp. p. 6293; Gaz. vol. 177; p. 1109.
Boring-bar. J. G. Lugenbill. No. 1,027,554; May 28; Sp. p. 5404; Gaz. vol. 178; p. 947.
Boring-bar. J. J. Steinbrunn. No. 1,031,484; July 2; Gaz. vol. 180; p. 222.
Boring-bar. W. A. Schroeder and A. J. Nolte. No. 1,043,874; Nov. 12; Gaz. vol. 184; p. 322.
Boring-bar tool-retaining device. H. Mueller and A. C. Schuermann. No. 1,034,723; Aug. 6; Gaz. vol. 181; p. 107.
Boring-brace. D. Redmon. No. 1,029,028; June 11; Sp. p. 2088; Gaz. vol. 179; p. 360.
Boring device, Adjustable taper-. W. J. Sanderson. No. 1,046,496; Dec. 10; Gaz. vol. 185; p. 282.
Boring-machine. R. L. McDaniel. No. 1,016,283; Feb. 6; Sp. p. 107; Gaz. vol. 175; p. 17.
Boring-machine. A. Hassler. No. 1,032,002; July 9; Gaz. vol. 180; p. 441.
Boring-machine. S. L. Martin. No. 1,036,665; Aug. 27; Gaz. vol. 181; p. 873.
Boring-machine. W. P. Orth. No. 1,044,564; Nov. 19; Gaz. vol. 184; p. 589.
Boring-machine. H. L. Hollis and F. O. Melcher. No. 1,047,411; Dec. 17; Gaz. vol. 185; p. 630.
Boring machine, Bobbin-. L. C. Baldwin. No. 1,036,060; Aug. 20; Gaz. vol. 181; p. 629.
Boring machine, Cylinder-. H. A. Pedrick. No. 1,028,600; June 4; Sp. p. 1167; Gaz. vol. 179; p. 178.
Boring-machine, Multiple-spindle. W. C. Farnum. No. 1,034,005; July 30; Gaz. vol. 180; p. 1227.
Boring-machine stock-support. C. Koster. No. 1,015,497; Jan. 23; Sp. p. 5322; Gaz. vol. 174; p. 912.
Boring-mill, Vertical. M. Silberman. No. 1,034,150; July 30; Gaz. vol. 180; p. 1278.
Boring or tunneling machine, Shaft. W. F. Wittich. No. 1,046,927; Dec. 10; Gaz. vol. 185; p. 432.
Boring-tool. M. R. Rodrigues. No. 1,029,824; June 18; Sp. p. 3825; Gaz. vol. 179; p. 670.
Boring-tool. H. R. Decker. No. 1,039,909; Oct. 1; Gaz. vol. 183; p. 80.
Boring-tool. J. W. Dawson. No. 1,045,000; Nov. 19; Gaz. vol. 184; p. 742.
Boring-tool. E. E. Davis. No. 1,046,740; Dec. 10; Gaz. vol. 185; p. 368.
Boring-tool centering-cap. A. De Vilbiss. No. 1,043,408; Nov. 5; Gaz. vol. 184; p. 129.
Boring-tools, Releasing mechanism for. W. Schäfer. No. 1,037,799; Sept. 3; Gaz. vol. 182; p. 207.
Boring, turning, and planing tool. J. G. Baker. No. 1,048,792; Dec. 31; Gaz. vol. 185; p. 1173.
Boring wooden bobbins, Machine for. D. S. Courtney. No. 1,043,205; Nov. 5; Gaz. vol. 184; p. 57.
Boron and boron alloys, Making. E. Weintraub. No. 1,019,569; Mar. 5; Sp. p. 1270; Gaz. vol. 176; p. 190.
Boron compounds, Reduction of. F. J. Tone. No. 1,035,919; Aug. 20; Gaz. vol. 181; p. 581.
Boronized conductor and manufacture. E. Weintraub. No. 1,019,391; Mar. 5; Sp. p. 904; Gaz. vol. 176; p. 133.
Bosh-plate. J. Smith. No. 1,031,388; July 2; Gaz. vol. 180; p. 189.
Bosh-plate. J. Smith. No. 1,031,389; July 2; Gaz. vol. 180; p. 189.
Bosom-press. W. Snyder. No. 1,034,526; Aug. 6; Gaz. vol. 181; p. 42.
Bottle. T. Mills. No. 1,023,114; Apr. 9; Sp. p. 2894; Gaz. vol. 177; p. 492.
Bottle. W. G. Lindsay. No. 1,037,272; Sept. 3; Gaz. vol. 182; p. 32.
Bottle. A. B. Gardner. No. 1,037,751; Sept. 3; Gaz. vol. 182; p. 192.
Bottle. C. McKeever. No. 1,044,219; Nov. 12; Gaz. vol. 184; p. 441.
Bottle. M. Matutinovich. No. 1,047,100; Dec. 10; Gaz. vol. 185; p. 488.
Bottle and drinking-cup, Combination non-refillable. F. F. Syracuse. No. 1,039,843; Oct. 1; Gaz. vol. 183; p. 59.
Bottle and stopper. F. W. Dufwa. No. 1,020,808; Mar. 19; Sp. p. 3835; Gaz. vol. 176; p. 672.
Bottle and stopper, Non-refillable. H. R. Turner. No. 1,033,639; July 23; Gaz. vol. 180; p. 1076.
Bottle and stopper, Non-refillable. D. Biederman. No. 1,044,979; Nov. 19; Gaz. vol. 184; p. 734.
Bottle, Antirefillable. G. H. Koehler and J. E. Horn. No. 1,025,577; May 7; Sp. p. 1065; Gaz. vol. 178; p. 164.
Bottle attachment. R. McConnell. No. 1,042,705; Oct. 29; Gaz. vol. 183; p. 1157.
Bottle attachment. F. A. Embling. No. 1,043,681; Nov. 5; Gaz. vol. 184; p. 225.
Bottle attachment, Nursing-. G. Moran. No. 1,023,672; Apr. 16; Sp. p. 4059; Gaz. vol. 177; p. 712.
Bottle-blank mold. J. Hackett. No. 1,019,147; Mar. 5; Sp. p. 316; Gaz. vol. 176; p. 49.
Bottle-blowing machine. J. Murphy. No. 1,043,129; Nov. 5; Gaz. vol. 184; p. 28.
Bottle-box, Metal-bound. E. E. Flora. No. 1,027,040; May 21; Sp. p. 4336; Gaz. vol. 178; p. 735.
Bottle-cap. E. D. Chellis. No. 1,033,081; July 23; Gaz. vol. 180; p. 888.
Bottle-cap. G. Koch. No. 1,037,496; Sept. 3; Gaz. vol. 182; p. 109.
Bottle-cap. T. A. Nissinen. No. 1,043,134; Nov. 5; Gaz. vol. 184; p. 30.
Bottle-cap. W. G. Revel, Jr. No. 1,043,359; Nov. 5; Gaz. vol. 184; p. 113.
Bottle-cap-making die. G. J. Spahn. No. 1,041,691; Oct. 15; Gaz. vol. 183; p. 745.
Bottle cap or closure, Milk and other. E. D. Schmitt. No. 1,026,282; May 14; Sp. p. 2624; Gaz vol. 178; p. 439.
Bottle cap or seal. C. Hammer. No. 1,027,330; May 21; Sp. p. 4950; Gaz. vol. 178; p. 833.
Bottle-caps, Applying. T. A. Nissinen. No. 1,043,133; Nov. 5; Gaz. vol. 184; p. 30.
Bottle caps or capsules, Making and applying. A. J. L. Lassen. No. 1,045,415; Nov. 26; Gaz. vol. 184; p. 914.
Bottle-capper. G. Strandt. No. 1,040,453; Oct. 8; Gaz. vol. 183; p. 293.
Bottle-capping head. J. Schlagel. No. 1,033,955; July 30; Gaz. vol. 180; p. 1209.
Bottle-capping machine. W. J. Cunningham. No. 1,022,829; Apr. 9; Sp. p. 2310; Gaz. vol. 177; p. 395.
Bottle-capping machine. A. M. Baroody. No. 1,024,493; Apr. 30; Sp. p. 5884; Gaz. vol. 177; p. 1052.
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Bottle-capping machine. R. V. Craggs. No. 1,030,164; June 18; Sp. p. 4543; Gaz. vol. 179; p. 785.
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Bottle-capping machine. R. E. Taylor. No. 1,041,527; Oct. 15; Gaz. vol. 183; p. 691.
Bottle-capping machine. B. Adriance and A. Calleson. No. 1,042,068; Oct. 22; Gaz. vol. 183; p. 910.
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Bottle capping or sealing machine. E. P. Wetmore. No. 1,021,565; Mar. 26; Sp. p. 5450; Gaz. vol. 176; p. 981.
Bottle-carrier. W. Wadsworth. No. 1,013,705; Jan. 2; Sp. p. 1362; Gaz. vol. 174; p. 212.
Bottle-carrier. E. P. Lindahl. No. 1,017,432; Feb. 13; Sp. p. 2661; Gaz. vol. 175; p. 450.
Bottle-carrier. J. T. H. Paul. No. 1,017,996; Feb. 20; Sp. p. 3927; Gaz. vol. 175; p. 679.
Bottle-carrier. F. L. Cummings. No. 1,022,533; Apr. 9; Sp. p. 1645; Gaz. vol. 177; p. 292.
Bottle-carrier. J. W. Cope. No. 1,026,788; May 21; Sp. p. 3739; Gaz. vol. 178; p. 647.
Bottle-carrier. G. F. Mathias. No. 1,032,921; July 16; Gaz. vol. 180; p. 797.
Bottle carrying and holding case. L. P. Hazen. No. 1,027,049; May 21; Sp. p. 4352; Gaz. vol. 178; p. 739.
Bottle-carrying handle. E. Lawrence. No. 1,013,406; Jan. 2; Sp. p. 696; Gaz. vol. 174; p. 110.
Bottle-case. G. G. Roberts. No. 1,022,971; Apr. 9; Sp. p. 2607; Gaz. vol. 177; p. 443.
Bottle-case. J. C. Miller. No. 1,038,626; Sept. 17; Gaz. vol. 182; p. 558.
Bottle-casing, Heat-insulating. P. R. Schuyler. No. 1,029,827; June 18; Sp. p. 3830; Gaz. vol. 179; p. 671.
Bottle-cleaner. E. Wagner. No. 1,041,532; Oct. 15; Gaz. vol. 183; p. 693.
Bottle cleaning and brushing machine. A. Berblinger. No. 1,018,738; Feb. 27; Sp. p. 5577; Gaz. vol. 175; p. 965.
Bottle-cleaning device. E. Petz. No. 1,020,510; Mar. 19; Sp. p. 3179; Gaz. vol. 176; p. 571.
Bottle-cleaning machine. P. Polnisch. No. 1,020,156; Mar. 12; Sp. p. 2449; Gaz. vol. 176; p. 417.
Bottle-cleaning machine. G. Weiss. No. 1,037,380; Sept. 3; Gaz. vol. 182; p. 68.
Bottle-closing device. F. Bagar. No. 1,038,476; Sept. 10; Gaz. vol. 182; p. 471.
Bottle-closure. P. Gergely. No. 1,015,675; Jan. 23; Sp. p. 5696; Gaz. vol. 174; p. 973.
Bottle-closure. C. De Witt. No. 1,018,387; Feb. 20; Sp. p. 4756; Gaz. vol. 175; p. 814.
Bottle-closure. P. and C. G. Panhorst. No. 1,018,923; Feb. 27; Sp. p. 5965; Gaz. vol. 175; p. 1027.
Bottle-closure. J. Matus. No. 1,022,101; Apr. 2; Sp. p. 737; Gaz. vol. 177; p. 118.
Bottle-closure. F. Kaczynski. No. 1,023,653; Apr. 16; Sp. p. 4022; Gaz. vol. 177; p. 706.
Bottle-closure. G. Lieb. No. 1,024,212; Apr. 23; Sp. p. 5269; Gaz. vol. 177; p. 923.
Bottle-closure. G. W. Trexler. No. 1,024,917; Apr. 30; Sp. p. 6841; Gaz. vol. 177; p. 1201.
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Bottle-closure. P. D. Laible. No. 1,036,861; Aug. 27; Gaz. vol. 181; p. 937.
Bottle-closure. J. S. Ramsey. No. 1,037,051; Aug. 27; Gaz. vol. 181; p. 1000.
Bottle-closure. V. Zsuzsitz. No. 1,038,260; Sept. 10; Gaz. vol. 182; p. 396.
Bottle-closure. J. Marian. No. 1,043,620; Nov. 5; Gaz vol. 184; p. 205.
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Bottle-closure. J. P. Presser. No. 1,049,316; Dec. 31; Gaz. vol. 185; p. 1352.
Bottle closure and protecting device. M. Switzer. No. 1,038,023; Sept. 10; Gaz. vol. 182; p. 318.
Bottle closure, Milk-. J. Prowett. No. 1,048,341; Dec. 24; Gaz. vol. 185; p. 977.
Bottle closure or stopper. M. Morawiecki. No. 1,037,792; Sept. 3; Gaz. vol. 182; p. 205.
Bottle-closure, Sanitary. A. D. Ray and C. N. Russell. No. 1,038,651; Sept. 17; Gaz. vol. 182; p. 566.
Bottle-closures of the cap variety, Machine for the manufacture of. J. Alberti. No. 1,043,384; Nov. 5; Gaz. vol. 184; p. 121.
Bottle-conveyer. W. Stender. No. 1,043,548; Nov. 5; Gaz. vol. 184; p. 180.
Bottle conveyer and drainer. S. Volz. No. 1,044,606; Nov. 19; Gaz. vol. 184; p. 605.
Bottle-crown shield. H. E. Knaust. No. 1,024,584; Apr. 30; Sp. p. 6126; Gaz. vol. 177; p. 1084.
Bottle-delivering mechanism. G. H. Hillyer. No. 1,030,180; June 18; Sp. p. 4575; Gaz. vol. 179; p. 791.
Bottle detachable stopper-retainer. J. Merrill. No. 1,035,219; Aug. 13; Gaz. vol. 181; p. 304.
Bottle, Dose-measuring. A. Wineman. No. 1,044,719; Nov. 19; Gaz. vol. 184; p. 644.
Bottle, Double-neck. N. Nilson. No. 1,040,390; Oct. 8; Gaz. vol. 183; p. 272.
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Bottle faucet or tap. R. H. Thompson, Jr. No. 1,041,699; Oct. 15; Gaz. vol. 183; p. 748.
Bottle feeding and capping machine. H. G. Klett. No. 1,033,597; July 23; Gaz. vol. 180; p. 1062.
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Bottle filling and capping machine. O. Hocher. No. 1,049,089; Dec. 31; Gaz. vol. 185; p. 1274.
Bottle-filling apparatus. J. Nies. No. 1,015,631; Jan. 23; Sp. p. 5609; Gaz. vol. 174; p. 959.
Bottle-filling machine. O. Cooley. No. 1,015,995; Jan. 30; Sp. p. 6380; Gaz. vol. 174; p. 1110.
Bottle-filling machine. G. Rowohlt and O. Gieseke. No. 1,025,649; May 7; Sp. p. 1215; Gaz. vol. 178; p. 187.
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Bottle fountain-stopper, Mucilage-. A. Nelson. No. 1,021,622; Mar. 26; Sp. p. 5561; Gaz. vol. 176; p. 999.
Bottle-guide. E. Baker. No. 1,034,406; Aug. 6; Gaz. vol. 181; p. 3.
Bottle-handle, Detachable. F. Landau. No. 1,016,421; Feb. 6; Sp. p. 410; Gaz. vol. 175; p. 65.
Bottle-handling apparatus. H. J. Chilton. No. 1,043,066; Nov. 5; Gaz. vol. 184; p. 5.
Bottle-holder. C. G. Irwin. No. 1,014,004; Jan. 9; Sp. p. 2048; Gaz. vol. 174; p. 345.
Bottle-holder. E. Dixon. No. 1,016,323; Feb. 6; Sp. p. 200; Gaz. vol. 175; p. 30.
Bottle-holder. J. Noll. No. 1,021,328; Mar. 26; Sp. p. 4922; Gaz. vol. 176; p. 900.
Bottle holder for baby-carriages, Nursing-. E. Neumann. No. 1,030,744; June 25; Sp. p. 6060; Gaz. vol. 179; p. 1032.
Bottle-holder for bottle-cleansing machines. G. M. Wakefield. No. 1,017,829; Feb. 20; Sp. p. 3527; Gaz. vol. 175; p. 620.
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Bottle holder, Milk-. W. E. Phillips. No. 1,020,844; Mar. 19; Sp. p. 3915; Gaz. vol. 176; p. 684.
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Bottle-holders and other frames, Metallic-weave construction for. J. F. Schoeppl. No. 1,027,358; May 21; Sp. p. 5002; Gaz. vol. 178; p. 843.
Bottle, Hot-water. G. W. Kaul. No. 1,015,445; Jan. 23; Sp. p. 5204; Gaz. vol. 174; p. 894.
Bottle, Hot-water. A. S. Campbell. No. 1,045,510; Nov. 26; Gaz. vol. 184; p. 949.
Bottle-indicator. J. M. White. No. 1,030,696; June 25; Sp. p. 5940; Gaz. vol. 179; p. 1015.
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Bottle, jar, and the like and stopper therefor. D. Hurst and H. K. Bridger. No. 1,022,141; Apr. 2; Sp. p. 826; Gaz. vol. 177; p. 131.
Bottle, jar, &c., holder, Safety. G. F. Barr. No. 1,026,485; May 14; Sp. p. 3078; Gaz. vol. 178; p. 507.
Bottle lock, Milk-. M. Graham. No. 1,042,550; Oct. 29; Gaz. vol. 183; p. 1101.
Bottle-lock, Non-substitutive. F. J. Cameron. No. 1,043,064; Nov. 5; Gaz. vol. 184; p. 5.
Bottle-locking device. F. Paulson. No. 1,017,997; Feb. 20; Sp. p. 3929; Gaz. vol. 175; p. 679.
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Bottle-neck-finishing machine. J. C. McKim. No. 1,036,295; Aug. 20; Gaz. vol. 181; p. 712.
Bottle, Non-refillable. W. Crossley and T. D. Adams. No. 1,014,127; Jan. 9; Sp. p. 2319; Gaz. vol. 174; p. 387.
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Bottle, Non-refillable. A. Klein. No. 1,019,659; Mar. 5; Sp. p. 1432; Gaz. vol. 176; p. 220.
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Bottle, Non-refillable. H. Marcus. No. 1,025,757; May 7; Sp. p. 1434; Gaz. vol. 178; p. 225.
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Bottle, Non-refillable. P. Hartmann. No. 1,044,173; Nov. 12; Gaz. vol. 184; p. 425.
Bottle, Non-refillable. T. A. Benyon. No. 1,044,731; Nov. 19; Gaz. vol. 184; p. 648.
Bottle, Non-refillable. G. W. Castlen. No. 1,044,743; Nov. 19; Gaz. vol. 184; p. 653.
Bottle, Non-refillable. A. S. Bernasinski. No. 1,044,854; Nov. 19; Gaz. vol. 184; p. 691.
Bottle, Non-refillable. W. Rittweger. No. 1,046,333; Dec. 3; Gaz. vol. 185; p. 186.
Bottle, Non-refillable. J. C. Speer. No. 1,046,670; Dec. 10; Gaz. vol. 185; p. 343.
Bottle, Non-refillable. C. C. Fine. No. 1,046,757; Dec. 10; Gaz. vol. 185; p. 375.
Bottle, Non-refillable. W. A. Stattmann. No. 1,047,325; Dec. 17; Gaz. vol. 185; p. 603.
Bottle, Non-refillable. W. H. Wisner. No. 1,047,473; Dec. 17; Gaz. vol. 185; p. 653.
Bottle, Non-refillable. E. A. Langton. No. 1,047,662; Dec. 17; Gaz. vol. 185; p. 720.
Bottle, Non-refillable. W. H. Bock. No. 1,047,732; Dec. 17; Gaz. vol. 185; p. 745.
Bottle, Non-refillable. W. Christopher. No. 1,047,748; Dec. 17; Gaz. vol. 185; p. 751.
Bottle, Non-refillable. B. G. Vosburgh. No. 1,048,010; Dec. 24; Gaz. vol. 185; p. 866.
Bottle, Non-refillable. C. R. Stitt. No. 1,048,225; Dec. 24; Gaz. vol. 185; p. 938.
Bottle, Non-refillable. F. P. Stough. No. 1,048,601; Dec. 31; Gaz. vol. 185; p. 1104.
Bottle, Non-refillable. C. S. Swaim. No. 1,048,759; Dec. 31; Gaz. vol. 185; p. 1160.
Bottle, Non-refillable vacuum-. C. E. Warsaw and A. P. Ball. No. 1,019,866; Mar. 12; Sp. p. 1834; Gaz. vol. 176; p. 322.
Bottle, Non-reusable. W. S. Brooks. No. 1,040,500; Oct. 8; Gaz. vol. 183; p. 309.
Bottle, Nursing-. J. C. Poore. No. 1,037,309; Sept. 3; Gaz. vol. 182; p. 43.
Bottle-opener. E. K. Hill. No. 1,024,403; Apr. 23; Sp. p. 5662; Gaz. vol. 177; p. 986.
Bottle-opener. H. L. Vaughan. No. 1,029,645; June 18; Sp. p. 3407; Gaz. vol. 179; p. 607.
Bottle or jar closure. H. R. Corey. No. 1,025,375; May 7; Sp. p. 602; Gaz. vol. 178; p. 93.
Bottle or jar closure. C. Hammer. No. 1,028,716; June 4; Sp. p. 1398; Gaz. vol. 179; p. 217.
Bottle or jar closure. W. Koufman. No. 1,042,237; Oct. 22; Gaz. vol. 183; p. 966.
Bottle or like vessel, Non-refillable. W. H. Nosworthy and S. J. Prescott. No. 1,036,889; Aug. 27; Gaz. vol. 181; p. 945.
Bottle or receptacle. O. Boehm. No. 1,035,522; Aug. 13; Gaz. vol. 181; p. 410.
Bottle or water-bag, Water-. A. M. Melville-Hamilton. No. 1,019,171; Mar. 5; Sp. p. 371; Gaz. vol. 176; p. 58.
Bottle pitcher attachment, Milk-. E. H. Jungclas. No. 1,027,421; May 28; Sp. p. 5147; Gaz. vol. 178; p. 903.
Bottle, Poison-indicating. E. A. Kern. No. 1,032,610; July 16; Gaz. vol. 180; p. 690.
Bottle protector, Milk-. J. R. Carter. No. 1,024,879; Apr. 30; Sp. p. 6754; Gaz. vol. 177; p. 1188.
Bottle receptacle, Milk or cream. E. W. Bauer. No. 1,024,548; Apr. 30; Sp. p. 6042; Gaz. vol. 177; p. 1073.
Bottle receptacle, Self-locking milk-. M. Hobin. No. 1,047,223; Dec. 17; Gaz. vol. 185; p. 564.
Bottle-retainer. H. E. Hixson. No. 1,026,984; May 21; Sp. p. 4194; Gaz. vol. 178; p. 716.
Bottle rinsing and sterilizing apparatus. A. G. Steer. No. 1,030,139; June 18; Sp. p. 4498; Gaz. vol. 179; p. 776.
Bottle-rinsing machine. K. Kiefer. No. 1,022,196; Apr. 2; Sp. p. 940; Gaz. vol. 177; p. 150.
Bottle safety device, Ink-. W. Pharr. No. 1,034,295; July 30; Gaz. vol. 180; p. 1329.

Alphabetical list of inventions—Continued.

Bottle, Self-measuring non-refillable. E. Röthman. No. 1,022,877; Apr. 9; Sp. p. 2397; Gaz. vol. 177; p. 410.
Bottle, Single-use. B. Erdale. No. 1,028,696; June 4; Sp. p. 1346; Gaz. vol. 179; p. 210.
Bottle, Siphon-. P. E. Malmstrom. No. 1,018,124; Feb. 20; Sp. p. 4213; Gaz. vol. 175; p. 724.
Bottle, Siphon-. C. L. Husted. No. 1,020,506; Mar. 19; Sp. p. 3171; Gaz. vol. 176; p. 570.
Bottle soaking, rinsing, and cleaning machine, Combined. C. E. Felt. No. 1,023,829; Apr. 28; Sp. p. 4400; Gaz. vol. 177; p. 791.
Bottle sterilizing and cleansing machine. J. Hauk, Jr. No. 1,030,887; July 2; Gaz. vol. 180; p. 13.
Bottle-stopper. T. W. Warren. No. 1,014,427; Jan. 9; Sp. p. 2971; Gaz. vol. 174; p. 493.
Bottle-stopper. M. W. Send. No. 1,022,443; Apr. 9; Sp. p. 1460; Gaz. vol. 177; p. 262.
Bottle-stopper. J. E. Hager. No. 1,023,735; Apr. 16; Sp. p. 4163; Gaz. vol. 177; p. 731.
Bottle-stopper. J. S. Porter. No. 1,026,963; May 21; Sp. p. 4160; Gaz. vol. 178; p. 709.
Bottle-stopper. W. A. Eckert. No. 1,027,112; May 21; Sp. p. 4517; Gaz. vol. 178; p. 760.
Bottle-stopper. W. Fuhr. No. 1,027,195; May 21; Sp. p. 4680; Gaz. vol. 178; p. 787.
Bottle-stopper. F. Russell. No. 1,028,907; June 11; Sp. p. 1825; Gaz. vol. 179; p. 317.
Bottle-stopper. A. H. Tyson. No. 1,029,246; June 11; Sp. p. 2553; Gaz. vol. 179; p. 432.
Bottle-stopper. A. J. Slaughter. No. 1,029,473; June 11; Sp. p. 3055; Gaz. vol. 179; p. 512.
Bottle-stopper. A. Choynacki. No. 1,031,322; July 2; Gaz. vol. 180; p. 167.
Bottle-stopper. K. H. Hoffman. No. 1,031,446; July 2; Gaz. vol. 180; p. 208.
Bottle-stopper. J. Bailey. No. 1,038,067; Sept. 10; Gaz. vol. 182; p. 332.
Bottle-stopper. W. J. Warner and A. Feiler. No. 1,038,465; Sept. 10; Gaz. vol. 182; p. 468.
Bottle-stopper. C. A. Natt. No. 1,039,176; Sept. 24; Gaz. vol. 182; p. 760.
Bottle-stopper. W. G. Gadue. No. 1,039,268; Sept. 24; Gaz. vol. 182; p. 795.
Bottle-stopper. H. T. Ray. No. 1,039,592; Sept. 24; Gaz. vol. 182; p. 908.
Bottle-stopper L. F. Seames. No. 1,041,180; Oct. 15; Gaz. vol. 183; p. 576.
Bottle-stopper. E. E. Allen. No. 1,041,561; Oct. 15; Gaz. vol. 183; p. 702.
Bottle-stopper. J. D. Gerahty and J. E. Hager. No. 1,041,774; Oct. 22; Gaz. vol. 183; p. 810.
Bottle-stopper. V. H. Kopald. No. 1,041,816; Oct. 22; Gaz. vol. 183; p. 826.
Bottle-stopper. F. Culotta. No. 1,042,091; Oct. 22; Gaz. vol. 183; p. 918.
Bottle-stopper. D. J. Cable. No. 1,044,016; Nov. 12; Gaz. vol. 184; p. 372.
Bottle-stopper. D. J. Cable. No. 1,044,017; Nov. 12; Gaz. vol. 184; p. 373.
Bottle-stopper. E. Rausch. No. 1,046,015; Dec. 3; Gaz. vol. 185; p. 73.
Bottle-stopper. C. D. Davis. No. 1,047,761; Dec. 17; Gaz. vol. 185; p. 755.
Bottle-stopper. F. H. Foster. No. 1,048,061; Dec. 24; Gaz. vol. 185; p. 883.
Bottle-stopper, Automatic, O. A. Hanford. No. 1,048,960; Dec. 31; Gaz. vol. 185; p. 1230.
Bottle-stopper cap. G. Moriz and G. P. Barschall. No. 1,028,769; June 4; Sp. p. 1508; Gaz. vol. 179; p. 235.
Bottle-stopper fastener. G. R. Schimmel. No. 1,015,841; Jan. 30; Sp. p. 6049; Gaz. vol. 174; p. 1056.
Bottle-stopper for automatically measuring and delivering liquid. T. R. Togna. No. 1,036,381; Aug. 20; Gaz. vol. 181; p. 744.
Bottle-stopper-grinding machine. L. J. Crecelius. No. 1,023,131; Apr. 16; Sp. p. 2978; Gaz. vol. 177; p. 536.
Bottle-stopper, Liquid-applying. F. H. Hinsdale. No. 1,021,522; Mar. 26; Sp. p. 5378; Gaz. vol. 176; p. 968.
Bottle stopper, Non-refillable-. J. L. Sellar. No. 1,015,591; Jan. 23; Sp. p. 5524; Gaz. vol. 174; p. 945.
Bottle stopper, Non-refillable-. L. B. Zaring. No. 1,035,068; Aug. 6; Gaz. vol. 181; p. 221.
Bottle stopper, Non-refillable-. E. M. De Valdes. No. 1,038,311; Sept. 10; Gaz. vol. 182; p. 413.
Bottle stopper, Poison-. W. D. Ball. No. 1,044,726; Nov. 19; Gaz. vol. 184; p. 647.
Bottle-stopper, Self-sealing. W. G. Peacock. No. 1,033,730; July 23; Gaz. vol. 180; p. 1104.
Bottle-stoppering. P J. Knight. No. 1,025,811; May 7; Sp. p. 1537; Gaz. vol. 178; p. 243.
Bottle-stoppering machine. A. J. L. Lassen. No. 1,043,709; Nov. 5; Gaz. vol. 184; p. 234.
Bottle strainer, Nursing-. J. Tweeddale. No. 1,041,378; Oct. 15; Gaz. vol. 183; p. 642.
Bottle, Sucking-. C. de Bock. No. 1,023,803; Apr. 23; Sp. p. 4317; Gaz. vol. 177; p. 782.
Bottle support, Nursing-. W. Sefts. No. 1,034,738; Aug. 6; Gaz. vol. 181; p. 112.
Bottle support, Nursing-. W. H. Saunders. No. 1,043,630; Nov. 5; Gaz. vol. 184; p. 208.
Bottle support, Vacuum-. H. M. Daggett, Jr., and L. J. Stilling. No. 1,031,692; July 9; Gaz. vol. 180; p. 335.
Bottle, Tilting. H. Turk. No. 1,017,607; Feb. 13; Sp. p. 3001; Gaz. vol. 175; p. 507.
Bottle, Vacuum-. L. J. Stilling. No. 1,031,884; July 9; Gaz. vol. 180; p. 403.
Bottle, Vacuum-. F. H. Decker and L. J. Stilling. No. 1,044,757; Nov. 19; Gaz. vol. 184; p. 659.
Bottle-washer. H. Krause. No. 1,022,199; Apr. 2; Sp. p. 947; Gaz. vol. 177; p. 151.
Bottle washer and holder, Combined portable. A. K. Macdonald. No. 1,044,794; Nov. 19; Gaz. vol. 184; p. 672.
Bottle washing and rinsing machine. O. Eick. No. 1,035,330; Aug. 13; Gaz. vol. 181; p. 343.
Bottle-washing attachment. P. D. Laible. No. 1,046,470; Dec. 10; Gaz. vol. 185; p. 272.
Bottle-washing machine. C. E. Felt. No. 1,023,830; Apr. 23; Sp. p. 4403; Gaz. vol. 177; p. 791.
Bottle-washing machine. C. K. Volckening. No. 1,034,938; Aug. 6; Gaz. vol. 181; p. 180.
Bottle-washing machine. C. E. Felt. No. 1,046,062; Dec. 3; Gaz. vol. 185; p. 91.
Bottle-washing machine. A. I. Risser. No. 1,048,885; Dec. 31; Gaz. vol. 185; p. 1204.
Bottles and packages, Cooling device for. G. T. Bailey. No. 1,023,116; Apr. 9; Sp. p. 2903; Gaz. vol. 177; p. 493.
Bottles, Cleaning. S. L. Goldman. No. 1,018,046; Feb. 20; Sp. p. 4030; Gaz. vol. 175; p. 697.
Bottles, Device for milk-. K. Graham. No. 1,042,909; Oct. 29; Gaz. vol. 183; p. 1227.
Bottles, jars, &c., Closure for. J. V. Hull. No. 1,013,391; Jan. 2; Sp. p. 669; Gaz. vol. 174; p. 106.
Bottles, jars, &c., Closure for. J. V. Hull. No. 1,013,392; Jan. 2; Sp. p. 670; Gaz. vol. 174; p. 106.
Bottles, jars, &c., Closure for. J. V. Hull. No. 1,013,393; Jan. 2; Sp. p. 673; Gaz. vol. 174; p. 106.
Bottles, jars, &c., Closure for. J. V. Hull. No. 1,013,394; Jan. 2; Sp. p. 677; Gaz. vol. 174; p. 107.
Bottles, Machine for applying cartons to. C. E. Wendte and J. Nash. No. 1,016,805; Feb. 6; Sp. p. 1273; Gaz. vol. 175; p. 196.
Bottles, mail, and the like, Device for holding. L. C. Pederson and R. Willis. No. 1,032,497; July 16; Gaz. vol. 180; p. 653.
Bottles or the like, Vertically-adjustable case for. F. W. Beach. No. 1,013,728; Jan. 2; Sp. p. 1408; Gaz. vol. 174; p. 221.
Bottles, Tin-foil cap for champagne and other. G. Robinet. No. 1,025,647; May 7; Sp. p. 1210; Gaz. vol. 178; p. 186.
Bottling and analogous machines, Supporting and feed mechanism for. A. J. Petersen. No. 1,032,157; July 9; Gaz. vol. 180; p. 492.
Bottling liquids under pressure, Machine for. J. K. Lannmark. No. 1,045,567; Nov. 26; Gaz. vol. 184; p. 969.
Bottling-machine. J. M. Frederick. No. 1,014,963; Jan. 16; Sp. p. 4184; Gaz. vol. 174; p. 704.
Bottling-machine. A. A. Pindstofte. No. 1,018,988; Feb. 27; Sp. p. 6118; Gaz. vol. 175; p. 1051.
Bottling-machine attachment. A. F. Atwood. No. 1,039,630; Sept. 24; Gaz. vol. 182; p. 921.
Bottling-machine feed mechanism. J. J. Gaynor, E. W. Miller, and C. D. Remler. No. 1,023,074; Apr. 9; Sp. p. 2807; Gaz. vol. 177; p. 478.
Bow for archery, Metallic. E. S. Roe. No. 1,029,716; June 18; Sp. p. 3587; Gaz. vol. 179; p. 633.
Bow rest and clamping device. H. B. White. No. 1,046,356; Dec. 3; Gaz. vol. 185; p. 194.
Bow-tie shield. J. F. Spalding. No. 1,021,078; Mar. 26; Sp. p. 4392; Gaz. vol. 176; p. 815.
Bows, Making Swiss. C. W. Butts. No. 1,038,845; Sept. 17; Gaz. vol. 182; p. 635.
Bowl. A. J. Sanford. No. 1,021,004; Mar. 26; Sp. p. 4250; Gaz. vol. 176; p. 789.
Bowling-alley. J. C. Wallace. No. 1,019,104; Mar. 5; Sp. p. 209; Gaz. vol. 176; p. 33.
Bowling-alley. F. C. Hobbs. No. 1,022,083; Apr. 2; Sp. p. 698; Gaz. vol. 177; p. 112.
Bowling-alley. J. P. Keenan. No. 1,025,808; May 7; Sp. p. 1532; Gaz. vol. 178; p. 242.
Bowling-alley. L. D. Haskell. No. 1,026,949; May 21; Sp. p. 4131; Gaz. vol. 178; p. 704.
Bowling-alley. E. G. Strong. No. 1,044,593; Nov. 19; Gaz. vol. 184; p. 601.
Bowling-alley ball-returnway. P. J. Riddell. No. 1,013,817; Jan. 2; Sp. p. 1583; Gaz. vol. 174; p. 252.
Bowling-alley pin. E. H. Sawyer, Jr. No. 1,030,834; June 25; Sp. p. 6392; Gaz. vol. 179; p. 1065.
Bowling-alleys, Pin-spot for. F. C. Hobbs. No. 1,020,646; Mar. 19; Sp. p. 3491; Gaz. vol. 176; p. 616.
Bowling apparatus. D. H. Talbert, C. Shaw, J. I. Holcomb, and J. F. Hoke, Jr. No. 1,035,658; Aug. 13; Gaz. vol. 181; p. 456.
Bowling-ball. W. P. Scully. No. 1,021,490; Mar. 26; Sp. p. 5302; Gaz. vol. 176; p. 955.
Bowling-ball. F. N. Bendelari. No. 1,026,069; May 14; Sp. p. 2168; Gaz. vol. 178; p. 366.

Box: *See* Adapter-box; Annealing-box; Autovehicle dump-box; Awning gear-box; Axle-box; Ballot-box; Battery-box; Berry-box; Blacking-box; Bottle-box; Branch box; Burial-box; Call-box; Car-journal box; Cash-box; Ceiling outlet-box; Cigar-box; Cigar-pressing box; Cigarette-box; Collapsible box; Confection-box; Confectionery-box; Core-box; Die-box; Dispensing-box; Display-box; Dump-box; Fare-box; Feed-box; File-box; Fire-box; Fire-alarm box; Floor-box; Folding box; Fruit-canning exhaust-box; Furnace-charging box; Fuse-box; Gutter-box; Hat-box; Hub-box; Ice-box; Incandescent-mantle box; Jack-box; Junction-box; Knockdown box; Letter-box; Locomotive driving-box; Lunch-box; Mail-box; Mail and order box; Mail-carrier's box; Match-box; Metallic box; Meter-box; Meter connection-box; Miter-box; Music-box; Newspaper-box; Outlet-box; Packing-box; Packing or shipping box; Paper box; Paper-folding box; Pasteboard box; Piling-box; Pin-box; Platting-box; Powder-box; Pump stuffing-box; Puzzle-box; Riffle-box; Scoop-box; Seed-corn box; Service or valve box; Sheet-metal box; Shipping-box; Shipping and display box; Signal-box; Sound-box; Stationery-box; String-box; Stuffing-box; Suit and hat box; Suit-case box; Switch-box; Switch and cut-out box; Switch or junction box; Talking-machine box; Talking-machine sound-box; Terminal box; Tobacco-box; Tool-box; Tool-holding box; Toy handkerchief-box; Turpentine-box; Vanity-box; Venear box; Vent-box; Wagon-box; Wire-bound box; Work-box.

Box. F. H. G. Morse. No. 1,013,207; Jan. 2; Sp. p. 240; Gaz. vol. 174; p. 41.

Box. B. F., A. O., and L. Fliedner. No. 1,017,962; Feb. 20; Sp. p. 3852; Gaz. vol. 175; p. 667.

Box. A. Krzan. No. 1,019,490; Mar. 5; Sp. p. 1124; Gaz. vol. 176; p. 165.

Box. H. A. Snellings. No. 1,019,925; Mar. 12; Sp. p. 1977; Gaz. vol. 176; p. 342.

Box. H. M. Branham. No. 1,020,534; Mar. 19; Sp. p. 3237; Gaz. vol. 176; p. 579.

Box. D. P. Fleming. No. 1,022,780; Apr. 9; Sp. p. 2210; Gaz. vol. 177; p. 378.

Box. A. F. Wilcox. No. 1,023,908; Apr. 23; Sp. p. 4584; Gaz. vol. 177; p. 817.

Box. F. Kaye and R. W. Rogers. No. 1,024,482; Apr. 23; Sp. p. 5833; Gaz. vol. 177; p. 1014.

Box. L. W. Draper. No. 1,025,253; May 7; Sp. p. 322; Gaz. vol. 178; p. 52.

Box. J. L. Burton. No. 1,025,899; May 7; Sp. p. 1776; Gaz. vol. 178; p. 272.

Box. A. Paradis. No. 1,027,561; May 28; Sp. p. 5421; Gaz. vol. 178; p. 949.

Box. W. S. Adler. No. 1,030,758; June 25; Sp. p. 6098; Gaz. vol. 179; p. 1037.

Box. F. Jones. No. 1,033,410; July 23; Gaz. vol. 180; p. 1001.

Box. W. I. Tuttle. No. 1,038,030; Sept. 10; Gaz. vol. 182; p. 320.

Box. H. E. Webb. No. 1,039,619; Sept. 24; Gaz. vol. 182; p. 917.

Box. C. A. Goozey. No. 1,040,931; Oct. 8; Gaz. vol. 183; p. 456.

Box. C. Holly. No. 1,041,475; Oct. 15; Gaz. vol. 183; p. 674.

Box. G. W. Hartley. No. 1,042,789; Oct. 29; Gaz. vol. 183; p. 1186.

Box. A. M. Wright. No. 1,043,378; Nov. 5; Gaz. vol. 184; p. 119.

Box. D. Gould. No. 1,043,690; Nov. 5; Gaz. vol. 184; p. 227.

Box. M. Lewis. No. 1,044,400; Nov. 12; Gaz. vol. 184; p. 503.

Box. O. F. Hutchison and S. F. Banks. No. 1,046,790; Dec. 10; Gaz. vol. 185; p. 387.

Box. B. L. Behrendt. No. 1,048,027; Dec. 24; Gaz. vol. 185; p. 872.

Box-binding machine. E. Ponkow. No. 1,029,509; June 11; Sp. p. 3121; Gaz. vol. 179; p. 523.

Box-binding-strip ends, Fastening. H. B. Walter. No. 1,026,417; May 14; Sp. p. 2937; Gaz. vol. 178; p. 486.

Box-blank. J. H. Greenstreet. No. 1,032,539; July 16; Gaz. vol. 180; p. 667.

Box-blank creasing and cutting machine. K. I. Herman. No. 1,037,909; Sept. 10; Gaz. vol. 182; p. 279.

Box blank, Folding-. E. W. Labombarde. No. 1,021,874; Apr. 2; Sp. p. 265; Gaz. vol. 177; p. 43.

Box-blank-pasting machine. E. Jagenberg. No. 1,038,377; Sept. 10; Gaz. vol. 182; p. 435.

Box-board cutting and scoring mechanism. T. H. Clinger. No. 1,022,722; Apr. 9; Sp. p. 2090; Gaz. vol. 177; p. 359.

Box construction. P. Mueller. No. 1,015,454; Jan. 23; Sp. p. 5217; Gaz. vol. 174; p. 897.

Box-corner stays. Machine for applying. C. R. Seymour. No. 1,037,063; Aug. 27; Gaz. vol. 181; p. 1005.

Box-corner stays, Machine for applying. H. De Smith. No. 1,044,633; Nov. 19; Gaz. vol. 184; p. 614.

Box-cover. A. H. Crankshaw. No. 1,033,550; July 23; Gaz. vol. 180; p. 1047.

Box-cover. J. H. Gass. No. 1,043,519; Nov. 5; Gaz vol. 184; p. 170;

Box-cover fastener. O. Sunde and O. Ryan. No. 1,029,092; June 11; Sp. p. 2229; Gaz. vol. 179; p. 381.

Box-covering machine. T. H. Wible. No. 1,017,276; Feb. 13; Sp. p. 2325; Gaz. vol. 175; p. 395.

Box-covering machine. J. Alger. No. 1,028,421; June 4; Sp. p. 784; Gaz. vol. 179; p. 119.

Box-covering machine. J. Alger. No. 1,028,422; June 4; Sp. p. 788; Gaz. vol. 179; p. 119.

Box-covering machine. J. G. Jones. No. 1,035.597; Aug. 13; Gaz. vol. 181; p. 435.

Box-covering machine. M. D. Knowlton. No. 1,037,154; Aug. 27; Gaz. vol. 181; p. 1035.

Box-covering machine. A Gütermann. No. 1,043,099; Nov. 5; Gaz. vol. 184; p. 18.

Box-covering machine. J. W. Nasmith. No. 1,046,484; Dec. 10; Gaz. vol. 185; p. 277.

Box-covering-machine cut-off. A. Bell. No. 1,041,409; Oct. 15; Gaz. vol. 183; p. 652.

Box-covering machines, Box-form-attaching means for. H. De Smith and D. Church. No. 1,036,197; Aug. 20; Gaz. vol. 181; p. 679.

Box-fastener. J. J. and P. J. Shook. No. 1,021,636; Mar. 26; Sp. p. 5585; Gaz. vol. 176; p. 1004.

Box-fastener. R. Schleicher. No. 1,022,156; Apr. 2; Sp. p. 859; Gaz. vol. 177; p. 136.

Box-fastener. J. F. Beehler. No. 1,022,575; Apr. 9; Sp p. 1735; Gaz. vol. 177; p. 306.

Box-fastener. J. F. Beehler. No. 1,022,576; Apr. 9; Sp. p. 1737; Gaz. vol. 177; p. 306.

Box-fastener. E. L. Watrous. No. 1,042,511; Oct. 29; Gaz. vol. 183; p. 1088.

Box-fastener. G. C. Cornell. No. 1,043,072; Nov. 5; Gaz. vol. 184; p. 8.

Box-fastener. J. A. Cook. No. 1,046,442; Dec. 10; Gaz. vol. 185; p. 262.

Box-fastening. J. O. Olson. No. 1,025,014; Apr. 30; Sp. p. 7025; Gaz. vol. 177; p. 1234.

Box-filling machine. J. P. Wright. No. 1,014,356; Jan. 9; Sp. p. 2832; Gaz. vol. 174; p. 468.

Box for candy and similar articles. C. P. Hodgson. No. 1,047,224; Dec. 17; Gaz. vol. 185; p. 564.

Box frame, Packing-. L. S. Lachman. No. 1,044,667; Nov. 19; Gaz. vol. 184; p. 626.

Box-gluing apparatus. G. R. Fosdick. No. 1,030,254; June 18; Sp. p. 4743; Gaz. vol. 179; p. 817.

Box-handle. R. J. Gruenberg. No. 1,027,385; May 21; Sp. p. 5072; Gaz. vol. 178; p. 853.

Box-handle or the like. J. A. Raymond. No. 1,027,067; May 21; Sp. p. 4412; Gaz. vol. 178; p. 746.

Box-lid and label holder, Combined. M. M. O'Meara and T. W. Leahy. No. 1,016,434; Feb. 6; Sp. p. 438; Gaz. vol. 175; p. 69.

Box-lid-attaching means. L. I. Heilbrun. No. 1,024,571; Apr. 30; Sp. p. 6105; Gaz. vol. 177; p. 1080.

Box-lid holder. A. Moebes, Jr., and A. H. W. Weber. No. 1,025,582; May 7; Sp. p. 1073; Gaz. vol. 178; p. 166.

Box-lid lifter. M. Fedder. No. 1,038,333; Sept. 10; Gaz. vol. 182; p. 420.

Box-lifter. G. Weaver. No. 1,040,824; Oct. 8; Gaz. vol. 183; p. 422.

Box-lining machine. E. O. Hiller and W. A. Joplin. No. 1,037,005; Aug. 27; Gaz. vol. 181; p. 985.

Box-machine. M. Quinlan. No. 1,021,703; Mar. 26; Sp. p. 5695; Gaz. vol. 176; p. 1026.

Box machine, Metal-edge-. J. Sauer, Jr. No. 1,044,257; Nov. 12; Gaz. vol. 184; p. 454.

Box-making machine. T. H. Martin. No. 1,044,066; Nov. 12; Gaz. vol. 184; p. 389.

Box-making machine. A. E. Holmes. No. 1,048,534; Dec. 31; Gaz. vol. 185; p. 1082.

Box-making machine, Pasteboard-. E. Jagenberg. No. 1,016,269; Feb. 6; Sp. p. 59; Gaz. vol. 175; p. 12.

Box-making-machine table mechanism. E. C. Northrup. No. 1,033,191; July 23; Gaz. vol. 180; p. 927.

Box-making-machine table mechanism. E. C. Northrup. No. 1,048,201; Dec. 24; Gaz. vol. 185; p. 930.

Box-opening device. R. M. Allworth. No. 1,035,296; Aug. 13; Gaz. vol. 181; p. 331.

Box or carton. J. F. Byrne. No. 1,020,536; Mar. 19; Sp. p. 3243; Gaz. vol. 176; p. 580.

Box or package. F. C. Stegman. No. 1,035,258; Aug. 13; Gaz. vol. 181; p. 317.

Box-partition holder. J. A. Cook. No. 1,037,594; Sept. 3; Gaz. vol. 182; p. 140.

Box-press. A. I. Mason. No. 1,015,237; Jan. 16; Sp. p. 4721; Gaz. vol. 174; p. 796.

Box-protector. J. Kurz. No. 1,022,745; Apr. 9; Sp. p. 2139; Gaz. vol. 177; p. 367.

Box-protector. J. Kurz. No. 1,022,746; Apr. 9; Sp. p. 2140; Gaz. vol. 177; p. 367.

Box-shucks, Machine for forming. J. P. Wright. No. 1,016,465; Feb. 6; Sp. p. 521; Gaz. vol. 175; p. 80.

Box-staying machines, Stay-strip wiper for. H. L. Brockway. No. 1,038,839; Sept. 17; Gaz. vol. 182; p. 633.

Box-strapping. L. S. Howe. No. 1,043,770; Nov. 5; Gaz. vol. 184; p. 254.

Box-strapping. L. S. Howe. No. 1,043,771; Nov. 5; Gaz. vol. 184; p. 255.

Box-stripping machine. J. F. Wells and H. B. Harlow. No 1,046,355; Dec. 3; Gaz. vol. 185; p. 194.

Alphabetical list of inventions—Continued.

Box-toe-making machine. J. W. Harney. No. 1,039,052; Sept. 17; Gaz. vol. 182; p. 701.
Box-toe stiffener. I. L. Keith. No. 1,046,194; Dec. 3; Gaz. vol. 185; p. 136.
Boxes and the like, Means for supporting the lids of. A. S. King. No. 1,030,188; June 18; Sp. p. 4608; Gaz. vol. 179; p. 794.
Boxes, Catch for jewelry and other. T. G. Walpuski and C. Hueffner. No. 1,035,666; Aug. 13; Gaz. vol. 181; p. 458.
Boxes, Edge-protector for tied. W. R. Betham. No. 1,041,413; Oct. 15; Gaz. vol. 183; p. 654.
Boxes for flies, Machine for applying paste to. A. L. Patterson. No. 1,027,890; May 28; Sp. p. 6173; Gaz. vol. 178; p. 1060.
Boxes, Machine for turning in the edges of the coating-paper of. W. G. Schoettle. No. 1,046,658; Dec. 10; Gaz. vol. 185; p. 338.
Boxes, Making. C. Holly. No. 1,041,285; Oct. 15; Gaz. vol. 183; p. 613.
Boxes with closures, Apparatus for providing. C. F. Jenkins. No. 1,047,530; Dec. 17; Gaz. vol. 185; p. 673.
Boxing. A. Walker. No. 1,043,377; Nov. 5; Gaz. vol. 184; p. 119.
Boxing device. G. Troxler. No. 1,016,244; Jan. 30; Sp. p. 6882; Gaz. vol. 174; p. 1194.
Boxing, Device for use in the art of. R. B. Campbell. No. 1,044,987; Nov. 19; Gaz. vol. 184; p. 737.
Boxing, Protector for use in. G. O. Brewster. No. 1,040,267; Oct. 8; Gaz. vol. 183; p. 228.
Brace: *See* Bolster, &c., brace; Boring-brace; Broom-brace; Chair-brace; Fence-post brace; Foot and ankle brace; Gun hand-brace; Jaw-brace; Piano-brace; Rail-brace; Railway-track brace; Ratchet-brace; Sectional brace.
Brace. L. Boggan. No. 1,031,105; July 2; Gaz. vol. 180; p. 91.
Brace for fractured bones. L. L. Miner. No. 1,025,008; Apr. 30; Sp. p. 7018; Gaz. vol. 177; p. 1232.
Braces, Attachment for carpenters'. P. R. Duchemin. No. 1,031,540; July 2; Gaz. vol. 180; p. 239.
Bracelet. G. H. Tilford. No. 1,016,304; Feb. 6; Sp. p. 149; Gaz. vol. 175; p. 23.
Bracelet. M. L. Robbins. No. 1,018,587; Feb. 27; Sp. p. 5271; Gaz. vol. 175; p. 916.
Bracelet. F. Feid. No. 1,019,445; Mar. 5; Sp. p. 1017; Gaz. vol. 176; p. 149.
Bracelet. M. L. Robbins. No. 1,022,798; Apr. 9; Sp. p. 2241; Gaz. vol. 177; p. 384.
Bracelet. M. L. Robbins. No. 1,024,101; Apr. 23; Sp. p. 5006; Gaz. vol. 177; p. 884.
Bracelet. M. L. Robbins. No. 1,036,716; Aug. 27; Gaz. vol. 181; p. 888.
Bracelet. F. E. Forsell. No. 1,039,719; Oct. 1; Gaz. vol. 183; p. 17.
Bracelet. S. O. Bigney. No. 1,041,729; Oct. 22; Gaz. vol. 183; p. 794.
Bracelet. G. H. Cahoone. No. 1,043,063; Nov. 5; Gaz. vol. 184; p. 4.
Bracelet. A. Eklund. No. 1,047,623; Dec. 17; Gaz. vol. 185; p. 707.
Bracelet. C. Trommer. No. 1,048,234; Dec. 24; Gaz. vol. 185; p. 941.
Bracelet and bangle. I. Maddox. No. 1,016,023; Jan. 30; Sp. p. 6440; Gaz. vol. 174; p. 1121.
Bracelet, Expansible. R. Loog. No. 1,034,471; Aug. 6; Gaz. vol. 181; p. 23.
Bracelet, Expansible. C. H. Patten. No. 1,046,850; Dec. 10; Gaz. vol. 185; p. 406.
Bracelet, Flexible and expansible. K. Rotherham. No. 1,028,788; June 4; Sp. p. 1546; Gaz. vol. 179; p. 241.
Bracelet-joint. R. C. Castiglioni. No. 1,036,189; Aug 20; Gaz. vol. 181; p. 676.
Bracelet, Snap-. P. H. Lattré. No. 1,020,148; Mar. 12; Sp. p. 2423; Gaz. vol. 176; p. 414.
Bracelets or extensible chains, Spring-link for. E. and G. Loiseau. No. 1,037,274; Sept. 3; Gaz. vol. 182; p. 32.
Bracket: *See* Adjustable bracket; Automobile lamp-bracket; Awning-bracket; Card-holder bracket; Cord or cable support bracket; Corner-bracket; Curtain-bracket; Curtain-pole bracket; Curtain-rod bracket; Electric-light bracket; Extensible bracket; Folding leg-bracket; Gutter-bracket; Insulator-bracket; Interlocking bracket; Lace-rod bracket; Ladder-bracket; Lamp-bracket; Light-shade bracket; Mirror-bracket; Mounting-bracket; One-piece bracket; Porch flower-bracket; Rigging-bracket; Roof-bracket; Scaffold-bracket; Scaffolding-bracket; Screen-frame bracket; Shade-bracket; Shade and curtain bracket; Shade-roller bracket; Shelf and other like bracket; Shelving-bracket; Shingle-bracket; Shingling-bracket; Side-sill bracket; Sink-frame bracket; Suspension-bracket; Telephone-bracket; Turpentine-cup bracket; Wall-bracket; Water-tank bracket; Window-bracket.
Bracket. A. A. Warner. No. 1,016,908; Feb. 6; Sp. p. 1495; Gaz. vol. 175; p. 231.
Bracket. M. L. Longworth. No. 1,024,997; Apr. 30; Sp. p. 6994; Gaz. vol. 177; p. 1229.
Bracket. L. W. Olmstead and C. W. Messimer. No. 1,026,221; May 14; Sp. p. 2505; Gaz. vol. 178; p. 419.
Bracket. V. and V. E. Royle. No. 1,029,228; June 11; Sp. p. 2509; Gaz. vol. 179; p. 426.
Bracket. W. Peplowski. No. 1,030,205; June 18; Sp. p. 4651; Gaz. vol. 179; p. 799.
Bracket. S. W. Parsons. No. 1,047,980; Dec. 24; Gaz. vol. 185; p. 856.
Bracket and case. C. B. Corbin. No. 1,028,811; June 4; Sp. p. 1593; Gaz. vol. 179; p. 249.
Bracket and support therefor. V. Sander and P. W. Seiler. No. 1,017,174; Feb. 13; Sp. p. 2103; Gaz. vol. 175; p. 361.
Bracket attachment. J. W. Briggs. No. 1,019,421; Mar. 5; Sp. p. 968; Gaz. vol. 176; p. 141.
Bracket-clamp. H. F. Keil. No. 1,035,967; Aug. 20; Gaz. vol. 181; p. 597.
Brad feeding and driving apparatus. R. J. Morrison. No. 1,024,645; Apr. 30; Sp. p. 6275; Gaz. vol. 177; p. 1105.
Braiding-carrier. P. Butler. No. 1,045,254; Nov. 26; Gaz. vol. 184; p. 859.
Braiding-machine. S. W. Wardwell. No. 1,032,870; July 16; Gaz. vol. 180; p. 780.
Braiding-machine. H. Buscher. No. 1,034,688; Aug. 6; Gaz. vol. 181; p. 94.
Braiding-machine carrier. S. W. Wardwell. No. 1,025,172; May 7; Sp. p. 138; Gaz. vol. 178; p. 24.
Braiding-machine carrier. J. E. Chace. No. 1,041,590; Oct. 15; Gaz. vol. 183; p. 710.
Braiding-machine, Rotary. A. Petersen. No. 1,046,107; Dec. 3; Gaz. vol. 185; p. 106.
Brake: *See* Air-brake; Automatic brake; Automobile-brake; Automobile power-brake; Back-pedaling brake; Band-brake; Car-brake; Car fluid-pressure brake; Coaster-brake; Cornice-brake; Electrically-controlled brake; Elevator-brake; Elevator compound brake; Elevator emergency-brake; Elevator safety-brake; Emergency-brake; Fluid-pressure brake; Friction-brake; Hand-brake; Hemp-brake; Hoisting-machinery brake; Hub-brake; Locking-brake; Locomotive-brake; Machine-brake; Magnetic brake; Rail-brake; Railway-brake; Safety-brake; Shuttle-brake; Sled-brake; Sled ice-brake; Sleigh-brake; Speed-controlled brake; Track-brake; Train-brake; Vehicle-brake; Vehicle automatic brake; Vehicle back-up brake; Wagon-brake; Wheel-brake.
Brake. F. N. Robinson. No. 1,015,078; Jan. 16; Sp. p. 4419; Gaz. vol. 174; p. 743.
Brake. O. Peterson. No. 1,021,474; Mar. 26; Sp. p. 5274; Gaz. vol. 176; p. 951.
Brake. G. S. Wilson and E. F. Mathey. No. 1,021,962; Apr. 2; Sp. p. 459; Gaz. vol. 177; p. 73.
Brake. F. O'Brien. No. 1,022,639; Apr. 9; Sp. p. 1873; Gaz. vol. 177; p. 327.
Brake. R. Henley. No. 1,027,332; May 21; Sp. p. 4954; Gaz. vol. 178; p. 834.
Brake. L. J. Myers. No. 1,033,261; July 23; Gaz. vol. 180; p. 951.
Brake. A. P. Brush and W. C. Baker. No. 1,034,579; Aug. 6; Gaz. vol. 181; p. 59.
Brake. G. T. Pflaumer. No. 1,042,598; Oct. 29; Gaz. vol. 183; p. 1119.
Brake. P. H. Breed. No. 1,046,256; Dec. 3; Gaz. vol. 185; p. 159.
Brake. J. D. Smith. No. 1,048,365; Dec. 24; Gaz. vol. 185; p. 986.
Brake and free-wheel mechanism, Back-pedaling. E. Sachs and M. Mossig. No. 1,015,744; Jan. 23; Sp. p. 5847; Gaz. vol. 174; p. 997.
Brake apparatus. D. L. Lindquist. No. 1,041,642; Oct. 15; Gaz. vol. 183; p. 728.
Brake apparatus particularly applicable to railway-wagon brakes. G. B. Bowles. No. 1,017,504; Feb. 13; Sp. p. 2810; Gaz. vol. 175; p. 474.
Brake-beam. E. M. Applebaugh. No. 1,013,102; Jan. 2; Sp. p. 15; Gaz. vol. 174; p. 5.
Brake-beam. E. A. Le Beau. No. 1,020,563; Mar. 19; Sp. p. 3308; Gaz. vol. 176; p. 590.
Brake-beam. E. A. Le Beau. No. 1,023,474; Apr. 16; Sp. p. 3664; Gaz. vol. 177; p. 650.
Brake-beam. E. A. Le Beau. No. 1,024,484; Apr. 23; Sp. p. 5837; Gaz. vol. 177; p. 1015.
Brake-beam. H. Ziemss, Jr. No. 1,030,757; June 25; Sp. p. 6096; Gaz. vol. 179; p. 1037.
Brake-beam. H. Ziemss, Jr. No. 1,036,052; Aug. 20; Gaz. vol. 181; p. 626.
Brake-beam. H. Ziemss, Jr. No. 1,036,053; Aug. 20; Gaz. vol. 181; p. 626.
Brake-beam. W. S. Atwood. No. 1,036,055; Aug. 20; Gaz. vol. 181; p. 627.
Brake-beam. H. Ziemss, Jr. No. 1,041,222; Oct. 15; Gaz. vol. 183; p. 589.
Brake-beam. H. Ziemss, Jr. No. 1,045,244; Nov. 26; Gaz. vol. 184; p. 856.
Brake-beam. H. Ziemss, Jr. No. 1,045,928; Dec. 3; Gaz. vol. 185; p. 45.
Brake-beam safety-support. D. M. Knox. No. 1,024,789; Apr. 30; Sp. p. 6579; Gaz. vol. 177; p. 1157.
Brake-beam support. W. G. Price. No. 1,028,386; June 4; Sp. p. 699; Gaz. vol. 179; p. 106.
Brake-beam suspension. N. H. Davis. No. 1,028,443; June 4; Sp. p. 846; Gaz. vol. 179; p. 126.
Brake-beams, Reversible strut for. P. B. Harrison. No. 1,037,903; Sept. 10; Gaz. vol. 182; p. 277.

Alphabetical list of inventions—Continued.

Brake-block holder. E. A. Peck. No. 1,027,390; May 21; Sp. p. 5079; Gaz. vol. 178; p. 854.
Brake-block holder. A. R. Corn. No. 1,048,043; Dec. 24; Gaz. vol. 185; p. 877.
Brake-clutch. L. T. Turner. No. 1,018,280; Feb. 20; Sp. p. 4523; Gaz. vol. 175; p. 778.
Brake connector, Coaster-. E. Sachs. No. 1,045,195; Nov. 26; Gaz. vol. 184; p. 837.
Brake device for stopping runaway trucks on inclined tracks. V. Stasch. No. 1,031,152; July 2; Gaz. vol. 180; p. 107.
Brake device, Load. W. V. Turner. No. 1,039,220; Sept. 24; Gaz. vol. 182; p. 777.
Brake-drum protector. A. P. Brush. No. 1,019,755; Mar. 12; Sp. p. 1626; Gaz. vol. 176; p. 284.
Brake fastener, Coaster-. E. Sachs. No. 1,045,194; Nov. 26; Gaz. vol. 184; p. 836.
Brake-handle. F. R. Phillips. No. 1,025,718; May 7; Sp. p. 1351; Gaz. vol. 178; p. 210.
Brake-hanger. C. H. Williams, Jr. No. 1,033,139; July 23; Gaz. vol. 180; p. 909.
Brake-head. E. M. Applebaugh. No. 1,013,101; Jan. 2; Sp. p. 14; Gaz. vol. 174; p. 5.
Brake-head. E. M. Applebaugh. No. 1,013,103; Jan. 2; Sp. p. 16; Gaz. vol. 174; p. 5.
Brake-head. H. B. Robischung. No. 1,022,331; Apr. 2; Sp. p. 1215; Gaz. vol. 177; p. 194.
Brake-head. H. M. Perry and C. F. Hunton. No. 1,022,440; Apr. 9; Sp. p. 1455; Gaz. vol. 177; p. 261.
Brake-head. C. W. Armbrust. No. 1,024,112; Apr. 23; Sp. p. 5031; Gaz. vol. 177; p. 889.
Brake-head. C. W. Armbrust. No. 1,027,581; May 28; Sp. p. 5472; Gaz. vol. 178; p. 957.
Brake-head. N. H. Davis. No. 1,043,807; Nov. 12; Gaz. vol. 184; p. 298.
Brake-head. F. R. Cornwall. No. 1,045,261; Nov. 26; Gaz. vol. 184; p. 861.
Brake-head, Adjustable. E. D. Pugh. No. 1,013,311; Jan. 2; Sp. p. 499; Gaz. vol. 174; p. 78.
Brake-head, Adjustable. P. B. Harrison. No. 1,019,894; Mar. 12; Sp. p. 1908; Gaz. vol. 176; p. 331.
Brake-head, Adjustable. E. L. White. No. 1,022,806; Apr. 9; Sp. p. 2263; Gaz. vol. 177; p. 387.
Brake-head, Adjustable. E. T. Walker and E. G. Busse. No. 1,031,303; July 2; Gaz. vol. 180; p. 161.
Brake-head and key. C. F. Huntoon. No. 1,018,618; Feb. 27; Sp. p. 5328; Gaz. vol. 175; p. 924.
Brake-lever lock. P. F. Augenbraun. No. 1,040,844; Oct. 8; Gaz. vol. 183; p. 428.
Brake-locking device. G. E. Vause and C. S. Clemmens. No. 1,021,020; Mar. 26; Sp. p. 4280; Gaz. vol. 176; p. 795.
Brake-magnet protective and demagnetizing device. D. L. Lindquist. No. 1,043,528; Nov. 5; Gaz. vol. 184; p. 173.
Brake mechanism. J. J. Lyons. No. 1,017,223; Feb. 13; Sp. p. 2223; Gaz. vol. 175; p. 378.
Brake mechanism. P. S. Moe. No. 1,022,252; Apr. 2; Sp. p. 1056; Gaz. vol. 177; p. 168.
Brake mechanism. S. M. Wratten. No. 1,024,385; Apr. 23; Sp. p. 5583; Gaz. vol. 177; p. 979.
Brake mechanism. J. T. Bishop. No. 1,025,115; May 7; Sp. p. 2; Gaz. vol. 178; p. 3.
Brake mechanism. J. R. McGiffert. No. 1,026,274; May 14; Sp. p. 2605; Gaz. vol. 178; p. 437.
Brake mechanism. J. O. Martin and H. W. Scheiler. No. 1,039,771; Oct. 1; Gaz. vol. 183; p. 35.
Brake mechanism. J. J. Ross. No. 1,042,038; Oct. 22; Gaz. vol. 183; p. 901.
Brake mechanism for vehicles. F. Rolland and E. Pilain. No. 1,022,506; Apr. 9; Sp. p. 1587; Gaz. vol. 177; p. 284.
Brake mechanism, Free-wheel and back-pedaling. E. Sachs. No. 1,017,472; Feb. 13; Sp. p. 2754; Gaz. vol. 175; p. 464.
Brake mechanism, Motor-operated. S. F. Nichols. No. 1,029,883; June 18; Sp. p. 3972; Gaz. vol. 179; p. 691.
Brake mechanism, Variable-load. W. G. Ransom. No. 1,016,289; Feb. 6; Sp. p. 117; Gaz. vol. 175; p. 19.
Brake of cycles, &c. A. T. Austin. No. 1,034,674; Aug. 6; Gaz. vol. 181; p. 90.
Brake-rigging. W. H. Sauvage. (Reissue.) No. 13,386; Mar. 19; Sp. p. 4144; Gaz. vol. 176; p. 723.
Brake-rigging. W. F. Kiesel, Jr. No. 1,022,424; Apr. 9; Sp. p. 1430; Gaz. vol. 177; p. 256.
Brake-rigging. J. S. Wathey. No. 1,037,090; Aug. 27; Gaz. vol. 181; p. 1013.
Brake-rigging-adjusting apparatus. L. E. Oliver and A. Cureton. No. 1,028,264; June 4; Sp. p. 441; Gaz. vol. 179; p. 64.
Brake-rod, Adjustable. C. H. Williams, Jr. No. 1,019,872; Mar. 12; Sp. p. 1845; Gaz. vol. 176; p. 324.
Brake-rod jaw. S. H. Campbell. No. 1,025,960; May 14; Sp. p. 1905; Gaz. vol. 178; p. 328.
Brake-setting device, Emergency-. H. S. Beattie. No. 1,042,869; Oct. 29; Gaz. vol. 183; p. 1214.
Brake-setting mechanism. J. F. Webb, Jr. No. 1,034,376; July 30; Gaz. vol. 180; p. 1357.
Brake-shoe. C. W. Armbrust. No. 1,014,933; Jan. 16; Sp. p. 4121; Gaz. vol. 174; p. 694.
Brake-shoe. C. W. Armbrust. No. 1,015,771; Jan. 30; Sp. p. 5907; Gaz. vol. 174; p. 1034.
Brake-shoe. J. D. Gallagher. No. 1,016,262; Feb. 6; Sp. p. 39; Gaz. vol. 175; p. 9.
Brake-shoe. J. T. Perkins. No. 1,017,015; Feb. 13; Sp. p. 1741; Gaz. vol. 175; p. 304.
Brake-shoe. A. H. Reid. No. 1,018,209; Feb. 20; Sp. p. 4388; Gaz. vol. 175; p. 754.
Brake-shoe. C. W. Armbrust. No. 1,019,583; Mar. 5; Sp. p. 1292; Gaz. vol. 176; p. 194.
Brake-shoe. C. W. Armbrust. No. 1,020,532; Mar. 19; Sp. p. 3232; Gaz. vol. 176; p. 578.
Brake-shoe C. W. Armbrust. No. 1,022,397; Apr. 9; Sp. p. 1349; Gaz. vol. 177; p. 247.
Brake-shoe. J. J. Kinzer. No. 1,024,265; Apr. 23; Sp. p. 5386; Gaz. vol. 177; p. 943.
Brake-shoe. J. S. Thompson. No. 1,025,219; May 7; Sp. p. 241; Gaz. vol. 178; p. 40.
Brake-shoe. F. Sargent. No. 1,026,928; May 21; Sp. p. 4056; Gaz. vol. 178; p. 695.
Brake-shoe. F. Sargent. No. 1,026,929; May 21; Sp. p. 4058; Gaz. vol. 178; p. 696.
Brake-shoe. W. M. Simpson. No. 1,027,081; May 21; Sp. p. 4447; Gaz. vol. 178; p. 750.
Brake-shoe. J. J. Morse and W. S. Gemmer. No. 1,031,658; July 2; Gaz. vol. 180; p. 281.
Brake-shoe. F. T. Dickinson. No. 1,042,896; Oct. 29; Gaz. vol. 183; p. 1223.
Brake-shoe. J. J. Kinzer. No. 1,044,786; Nov. 19; Gaz. vol. 184; p. 670.
Brake-shoe. J. J. Kinzer. No. 1,045,564; Nov. 26; Gaz. vol. 184; p. 968.
Brake-shoe. C. M. Mendenhall. No. 1,045,997; Dec. 3; Gaz. vol. 185; p. 68.
Brake-shoe. J. E. Worswick. No. 1,046,360; Dec. 3; Gaz. vol. 185; p. 196.
Brake-shoe. J. J. Kinzer. No. 1,046,423; Dec. 3; Gaz. vol. 185; p. 218.
Brake-shoe adjuster. J. S. Ashworth. No. 1,030,156; June 18; Sp. p. 4519; Gaz. vol. 179; p. 781.
Brake-shoe back. W. C. Chipps. No. 1,033,304; July 23; Gaz. vol. 180; p. 967.
Brake-shoe, Composite-face. F. Sargent. No. 1,030,491; June 25; Sp. p. 5311; Gaz. vol. 179; p. 941.
Brake-shoe control. L. Zink. No. 1,038,059; Sept. 10; Gaz. vol. 182; p. 329.
Brake-shoe controller. W. G. Price. No. 1,045,180; Nov. 26; Gaz. vol. 184; p. 832.
Brake-shoe fastener. W. G. Price. No. 1,044,243; Nov. 12; Gaz. vol. 184; p. 450.
Brake-shoe head. I. W. Burgess. No. 1,018,294; Feb. 20; Sp. p. 4557; Gaz. vol. 175; p. 782.
Brake-shoe keys, Manufacturing. W. D. Forsyth. No. 1,016,068; Jan. 30; Sp. p. 6555; Gaz. vol. 174; p. 1138.
Brake-shoe-reinforcing wire back. W. G. Grant. No. 1,033,242; July 23; Gaz. vol. 180; p. 945.
Brake-shoes, Back for. W. H. Maloy. No. 1,019,812; Mar. 12; Sp. p. 1730; Gaz. vol. 176; p. 303.
Brake-shoes, Reinforced back for. W. C. Chipps. No. 1,036,564; Aug. 27; Gaz. vol. 181; p. 838.
Brake slack-adjuster. J. J. Acker. No. 1,023,790; Apr. 23; Sp. p. 4269; Gaz. vol. 177; p. 777.
Brake system. L Sutherland. No. 1,028,301; June 4; Sp. p. 516; Gaz. vol. 179; p. 76.
Brake systems, Safety device for fluid-pressure. W. H. Sauvage. No. 1,013,821; Jan. 2; Sp. p. 1591; Gaz. vol. 174; p. 254.
Braking device. G. D. Howard. No. 1,044,180; Nov. 12; Gaz. vol. 184; p. 427.
Bran and a product obtained thereby, Treating. J. H. Quine. No. 1,018,441; Feb. 27; Sp. p. 4886; Gaz. vol. 175; p. 864.
Branch box. M. Havens, Jr. No. 1,014,704; Jan. 16; Sp. p. 3592; Gaz. vol. 174; p. 615.
Branding-head, Electrically-heated. E. N. Chandler. No. 1,022,061; Apr. 2; Sp. p. 657; Gaz. vol. 177; p. 104.
Branding instrument, Cattle-. I. R. Van Wart. No. 1,022,986; Apr. 9; Sp. p. 2631; Gaz. vol. 177; p. 448.
Branding-machine. C. R. Fischer and J. E. Stoll. No. 1,021,767; Apr. 2; Sp. p. 23; Gaz. vol. 177; p. 7.
Brass, Making. L. Addicks. No. 1,041,940; Oct. 22; Gaz. vol. 183; p. 869.
Brazing-burner. W. H. Van Horn. No. 1,033,967; July 30; Gaz. vol. 180; p. 1214.
Brazing compound. J. D. Ge Bott. No. 1,037,234; Sept. 3; Gaz. vol. 182; p. 20.
Bread and sandwiches, Machine for cutting slices of buttered. S. A. Gagé. No. 1,029,357; June 11; Sp. p 2797; Gaz. vol. 179; p. 472.
Bread, cake, &c., Product for making. W. E. Castle. No. 1,042,647; Oct. 29; Gaz. vol. 183; p. 1136.
Bread-cutter. T. W. Forster. No. 1,031,111; July 2; Gaz. vol. 180; p. 93.
Bread-cutter. C. Backman. No. 1,038,820; Sept. 17; Gaz. vol. 182; p. 626.
Bread-cutting machine. M. J. Ferren. No. 1,032,055; July 9; Gaz. vol. 180; p. 459.
Bread, Making. E. Farwell. No. 1,040,660; Oct. 8; Gaz. vol. 183; p. 370.
Bread, Manufacture of. G. Lunt. No. 1,044,467; Nov. 12; Gaz. vol. 184; p. 526.

Alphabetical list of inventions—Continued.

Bread-pan. G. F. Jefferson. No. 1,015,892; Jan. 30; Sp. p. 6164; Gaz. vol. 174; p. 1074.
Bread-pan. L. N. Wishman. No. 1,020,004; Mar. 12; Sp. p. 2129; Gaz. vol. 176; p. 366.
Bread-proofing apparatus. S. Olson. No. 1,038,784; Sept. 17; Gaz. vol. 182; p. 613.
Bread-proving closet. E. Biggs. No. 1,037,417; Sept. 3; Gaz. vol. 182; p. 81.
Bread-roll machine. A. Adelt. No. 1,015,985; Jan. 30; Sp. p. 6361; Gaz. vol. 174; p. 1107.
Break-key. J. L. Hogan, Jr. No. 1,016,564; Feb. 6; Sp. p. 775; Gaz. vol. 175; p. 114.
Breast-drill. J. H. Rusby. No. 1,046,223; Dec. 3; Gaz. vol. 185; p. 147.
Breast-drill and valve-grinder, Combined. A. B. Browne. No. 1,017,242; Feb. 13; Sp. p. 2259; Gaz. vol. 175; p. 384.
Breast-supporter. A. Schwenkler, *née* Deege. No. 1,019,537; Mar. 5; Sp. p. 1211; Gaz. vol. 176; p. 179.
Breathing appliance. H. A. Fleuss and R. H. Davis. No. 1,013,541; Jan. 2; Sp. p. 984; Gaz. vol. 174; p. 157.
Breech-block. A. Wakefield. No. 1,023,976; Apr. 23; Sp. p. 4733; Gaz. vol. 177; p. 840.
Brewers' slops, Treating. C. S. Robison. No. 1,016,291; Feb. 6; Sp. p. 123; Gaz. vol. 175; p. 19.
Brick. G. H. Emery. No. 1,027,407; May 28; Sp. p. 5119; Gaz. vol. 178; p. 899.
Brick. J. G. Barbour. No. 1,038,823; Sept. 17; Gaz. vol. 182; p. 627.
Brick and block machine. J. A. Gustafson and J. M. Flickinger. No. 1,038,876; Sept. 17; Gaz. vol. 182; p. 645.
Brick and facing-tile therefor, Building-. J. E. Banks. No. 1,032,105; July 9; Gaz. vol. 180; p. 475.
Brick, Apparatus for striking off. J. H. and F. B. Davidheiser. No. 1,021,354; Mar. 26; Sp. p. 4978; Gaz. vol. 176; p. 908.
Brick, Arch-. J. P. Neff. No. 1,046,008; Dec. 3; Gaz. vol. 185; p. 71.
Brick-carrier. G. E. Goldner. No. 1,039,382; Sept. 24; Gaz. vol. 182; p. 834.
Brick-clamp. C. W. Bandemer. No. 1,041,949; Oct. 22; Gaz. vol. 183; p. 871.
Brick-cleaning machine. E. T. Cole. No. 1,031,107; July 2; Gaz. vol. 180; p. 91.
Brick-cleaning machine. J. F. Freeman. No. 1,033,573; July 23; Gaz. vol. 180; p. 1054.
Brick-conveying device. S. Voss. No. 1,025,661; May 7; Sp. p. 1236; Gaz. vol. 178; p. 191.
Brick-drier. E. H. Callaway. No. 1,020,186; Mar. 12; Sp. p. 2520; Gaz. vol. 176; p. 428.
Brick-drying apparatus. J. C. Boss. No. 1,026,558; May 14; Sp. p. 3216; Gaz. vol. 178; p. 531.
Brick for cupolas, Breast-wall. R. P. Cunningham. No. 1,027,821; May 28; Sp. p. 5967; Gaz. vol. 178; p. 1036.
Brick, Glass-faced. J. T. Groat. No. 1,018,747; Feb. 27; Sp. p. 5603; Gaz. vol. 175; p. 969.
Brick-hacking apparatus. R. C. Penfield. No. 1,020,572; Mar. 19; Sp. p. 3320; Gaz. vol. 176; p. 593.
Brick-hacking apparatus. R. O. Penfield. No. 1,026,046; May 14; Sp. p. 2091; Gaz. vol. 178; p. 358.
Brick-handling method and stack. W. H. Francis. No. 1,030,397; June 25; Sp. p. 5094; Gaz. vol. 179; p. 908.
Brick, Hollow. F. O. Andersson. No. 1,041,401; Oct. 15; Gaz. vol. 183; p. 650.
Brick-hook. J. M. and R. A. McKay. No. 1,014,079; Jan. 9; Sp. p. 2215; Gaz. vol. 174; p. 371.
Brick-kiln. W. P. Grath. No. 1,034,105; July 30; Gaz. vol. 180; p. 1263.
Brick-kiln. A. E. Boyce. No. 1,041,006; Oct. 15; Gaz. vol. 183; p. 516.
Brick-kilns, Operating. E. L. Wiles. No. 1,033,138; July 23; Gaz. vol. 180; p. 909.
Brick-kilns, Walling and daubing. R. C. Penfield. No. 1,014,901; Jan. 16; Sp. p. 4038; Gaz. vol. 174; p. 683.
Brick-loading apparatus. W. W. Wallace. No. 1,034,941; Aug. 6; Gaz. vol. 181; p. 181.
Brick-machine. H. S. C. Walker. No. 1,022,165; Apr. 2; Sp. p. 874; Gaz. vol. 177; p. 139.
Brick-machine, Rotary. J. Walker. No. 1,031,747; July 9; Gaz. vol. 180; p. 354.
Brick, Making. C. H. Frost. No. 1,014,964; Jan. 16; Sp. p. 4186; Gaz. vol. 174; p. 705.
Brick, Making fire-. C. H. Jaxtheimer. No. 1,018,665; Feb. 27; Sp. p. 5425; Gaz. vol. 175; p. 940.
Brick-molding machine. F. Erpicum. No. 1,033,092; July 23; Gaz. vol. 180; p. 893.
Brick-molding machinery. W. S. Brice. No. 1,027,315; May 21; Sp. p. 4919; Gaz. vol. 178; p. 828.
Brick-press. W. E. and J. A. Dole. No. 1,042,655; Oct. 29; Gaz. vol. 183; p. 1139.
Brick-pressing machine. H. K. King. No. 1,041,805; Oct. 22; Gaz. vol. 183; p. 822.
Brick-sanding machine. R. C. Penfield. No. 1,047,695; Dec. 17; Gaz. vol. 185; p. 733.
Brick-stacking. R. C. Penfield. No. 1,013,683; Jan. 2; Sp. p. 1330; Gaz. vol. 174; p. 206.
Brick, tile, or analogous article and making same. A. Malinovszky. No. 1,016,345; Feb. 6; Sp. p. 248; Gaz. vol. 175; p. 39.
Bricklayer's line-holder. H. Gillette. No. 1,021,406; Mar. 26; Sp. p. 5126; Gaz. vol. 176; p. 927.
Bricklaying-machine. M. G. and L. P. Schindler. No. 1,033,954; July 30; Gaz. vol. 180; p. 1209.
Brickmaking-machine. J. F. Sheckler. No. 1,017,921; Feb. 20; Sp. p. 3761; Gaz. vol. 175; p. 654.
Brickmaking-machine. J. R. Dawkins and D. Parks. No. 1,024,122; Apr. 23; Sp. p. 5060; Gaz. vol. 177; p. 892.
Brickmaking-machine. J. A. Dunning. No. 1,025,133; May 7; Sp. p. 49; Gaz. vol. 178; p. 9.
Brickmaking-machine. J. D. Hubert. No. 1,048,537; Dec. 31; Gaz. vol. 185; p. 1083.
Bridge. J. B. Strauss. No. 1,038,226; Sept. 10; Gaz. vol. 182; p. 383.
Bridge attachment, Safety draw-. E. F. Schoenthaler. No. 1,041,359; Oct. 15; Gaz. vol. 183; p. 636.
Bridge, Bascule-. A. H. Scherzer. No. 1,021,488; Mar. 26; Sp. p. 5297; Gaz. vol. 176; p. 955.
Bridge, Bascule-. A. H. Scherzer. No. 1,041,885; Oct. 22; Gaz. vol. 183; p. 851.
Bridge, Bascule-. F. J. Benni. No. 1,048,440; Dec. 24; Gaz. vol. 185; p. 1010.
Bridge-clamp. C. W. Abernethy. No. 1,043,497; Nov. 5; Gaz. vol. 184; p. 162.
Bridge for single-track railways. S. Zsinko. No. 1,042,067; Oct. 22; Gaz. vol. 183; p. 910.
Bridge-gate, Safety. C. Faust. No. 1,015,880; Jan. 30; Sp. p. 6131; Gaz. vol. 174; p. 1070.
Bridge-gate, Safety. C. Faust. No. 1,017,090; Feb. 13; Sp. p. 1930; Gaz. vol. 175; p. 332.
Bridge, Lift-. J. L. Harrington. No. 1,027,477; May 28; Sp. p. 5248; Gaz. vol. 178; p. 921.
Bridge, Lift-. J. L. Harrington. No. 1,027,478; May 28; Sp. p. 5251; Gaz. vol. 178; p. 921.
Bridge lock, Bascule-. H. C. Krase. No. 1,042,238; Oct. 22; Gaz. vol. 183; p. 967.
Bridge, Reinforced arch-. J. B. Marsh. No. 1,035,026; Aug. 6; Gaz. vol. 181; p. 208.
Bridge safety-gate, Bascule-. C. Faust. No. 1,031,333; July 2; Gaz. vol. 180; p. 170.
Bridge safety-gate, Bascule-. C. Faust. No. 1,042,776; Oct. 29; Gaz. vol. 183; p. 1181.
Bridge structure. A. D. Kerstetter. No. 1,023,781; Apr. 16; Sp. p. 4242; Gaz. vol. 177; p. 745.
Bridge, Suspended. T. Kalla. No. 1,019,655; Mar. 5; Sp. p. 1428; Gaz. vol. 176; p. 219.
Bridge, Suspension-. W. H. C. Greer. No. 1,019,458; Mar. 5; Sp. p. 1048; Gaz. vol. 176; p. 153.
Bridges, Means for operating bascule-. C. L. Keller. No. 1,047,950; Dec. 24; Gaz. vol. 185; p. 847.
Bridle-bit. T. F. Dolan. No. 1,037,878; Sept. 10; Gaz. vol. 182; p. 268.
Bridle-bit. H. H. James. No. 1,042,796; Oct. 29; Gaz. vol. 183; p. 1188.
Bridle-bit. S. A. Sulecio. No. 1,046,897; Dec. 10; Gaz. vol. 185; p. 421.
Bridle, Bitless. I. Fox. No. 1,015,165; Jan. 16; Sp. p. 4578; Gaz. vol. 174; p. 772.
Brine-cooler. O. C. De Fosset. No. 1,041,973; Oct. 22; Gaz. vol. 183; p. 879.
Brine, Treatment of. G. W. Malcolm and F. T. Munton. No. 1,025,411; May 7; Sp. p. 668; Gaz. vol. 178; p. 105.
Brine, Treatment of. G. W. Malcolm and F. T. Munton. No. 1,030,103; June 18; Sp. p. 4436; Gaz. vol. 179; p. 766.
Briquet and binder. B. F. Latta. No. 1,033,910; July 30; Gaz. vol. 180; p. 1193.
Briquet-machine. G. Komarek. No. 1,026,682; May 21; Sp. p. 3502; Gaz. vol. 178; p. 611.
Briquet-machine. G. Komarek. No. 1,036,647; Aug. 27; Gaz. vol. 181; p. 867.
Briquets, Manufacture of. F. O. Gripp. No. 1,016,939; Feb. 13; Sp. p. 1572; Gaz. vol. 175; p. 278.
Briqueting. W. R. Valentine. No. 1,024,428; Apr. 23; Sp. p. 5707; Gaz. vol. 177; p. 993.
Briqueting-machine. W. A. and E. H. Lorenz. No. 1,023,433; Apr. 16; Sp. p. 3580; Gaz. vol. 177; p. 637.
Broaching-machine. R. R. Lapointe. No. 1,028,825; June 4; Sp. p. 1623; Gaz. vol. 179; p. 253.
Broaching mechanism. R. R. Lapointe. No. 1,028,824; June 4; Sp. p. 1621; Gaz. vol. 179; p. 253.
Broiler. M. W. Longfellow and H. W. Hunter. No. 1,045,049; Nov. 19; Gaz. vol. 184; p. 759.
Broiler attachment for ranges and other heaters. S. Reina. No. 1,036,148; Aug. 20; Gaz. vol. 181; p. 661.
Broiler for gas-stoves. J. Arden. No. 1,021,499; Mar. 26; Sp. p. 5324; Gaz. vol. 176; p. 959.
Brooch. C. G. King. No. 1,023,940; Apr. 23; Sp. p. 4663; Gaz. vol. 177; p. 829.
Brooch. C. G. King. No. 1,046,077; Dec. 3; Gaz. vol. 185; p. 95.
Brooches and the like, Fastener for. K. Takahashi. No. 1,042,291; Oct. 22; Gaz. vol. 183; p. 983.
Brooder. A. H. Bell. No. 1,020,252; Mar. 12; Sp. p. 2655; Gaz. vol. 176; p. 450.
Brooder. A. E. Ford. No. 1,029,537; June 11; Sp. p. 3173; Gaz. vol. 179; p. 532.
Brooder. G. H. Lee. No. 1,031,455; July 2; Gaz. vol. 180; p. 211.

Alphabetical list of inventions—Continued.

Brooder. W. L. Niemann. No. 1,041,851; Oct. 22; Gaz. vol. 183; p. 838.
Brooder. I. J. Ploughe. No. 1,043,139; Nov. 5; Gaz. vol. 184; p. 32.
Brooder. A. B. Becker. No. 1,043,661; Nov. 5; Gaz. vol. 184; p. 218.
Brooder, Chicken-. W. O. Witham. No. 1,022,218; Apr. 2; Sp. p. 985; Gaz. vol. 177; p. 158.
Brooder, Chicken-. A. D. Sandberg. No. 1,033,950; July 30; Gaz. vol. 180; p. 1208.
Brooder, Chicken-. J. Tolman. No. 1,044,605; Nov. 19; Gaz. vol. 184; p. 605.
Brooder, Fireless. E. W. Philo. No. 1,013,562; Jan. 2; Sp. p. 1024; Gaz. vol. 174; p. 164.
Brooder, Knockdown. L. P. Rexford. No. 1,015,073; Jan. 16; Sp. p. 4411; Gaz. vol. 174; p. 741.
Broom. F. W. Pendergast. No. 1,015,066; Jan. 16; Sp. p. 4401; Gaz. vol. 174; p. 739.
Broom. V. E. Clark. No. 1,015,263; Jan. 16; Sp. p. 4787; Gaz. vol. 174; p. 805.
Broom. F. W. Pendergast. No. 1,025,300; May 7; Sp. p. 418; Gaz. vol. 178; p. 68.
Broom. L. and F. Nair. No. 1,027,752; May 28; Sp. p. 5804; Gaz. vol. 178; p. 1011.
Broom. G. C. Bemis. No. 1,028,182; June 4; Sp. p. 286; Gaz. vol. 179; p. 36.
Broom. W. L. Hooks. No. 1,043,425; Nov. 5; Gaz. vol. 184; p. 137.
Broom. W. M. Christopher. No. 1,048,469; Dec. 24; Gaz. vol. 185; p. 1021.
Broom and mop holder. F. C. Davis. No. 1,025,562; May 7; Sp. p. 1028; Gaz. vol. 178; p. 159.
Broom-band press. J. Jensen. No. 1,034,460; Aug. 6; Gaz. vol. 181; p. 20.
Broom-banding machine. J. S. McChesney. No. 1,014,887; Jan. 16; Sp. p. 4015; Gaz. vol. 174; p. 678.
Broom-brace. M. Holts. No. 1,041,084; Oct. 15; Gaz. vol. 183; p. 543.
Broom-bridle. J. A. Brown. No. 1,029,046; June 11; Sp. p. 2128; Gaz. vol. 179; p. 366.
Broom-bridle. W. H. Smith. No. 1,039,203; Sept. 24; Gaz. vol. 182; p. 771.
Broom-bundling machine. A. P. Longdon. No. 1,037,781; Sept. 3; Gaz. vol. 182; p. 202.
Broom cleaning-head, Whisk-. I. Fliegler. No. 1,043,414; Nov. 5; Gaz. vol. 184; p. 132.
Broom-corn booter. B. Titus. No. 1,036,030; Aug. 20; Gaz. vol. 181; p. 618.
Broom-handle. H. Hoskins. No. 1,041,286; Oct. 15; Gaz. vol. 183; p. 613.
Broom-holder. A. Stiles. No. 1,041,189; Oct. 15; Gaz. vol. 183; p. 578.
Broom-holder. C. B. Ebling. No. 1,047,394; Dec. 17; Gaz. vol. 185; p. 624.
Broom-holder. W. J. Hope. No. 1,049,238; Dec. 31; Gaz. vol. 185; p. 1324.
Broom-making-machine lip-clencher. N. H. Beebe and H. E. Smith. No. 1,033,374; July 23; Gaz. vol. 180; p. 989.
Brooms and brushes, Dust-cover for. J. S. Atwater. No. 1,036,775; Aug. 27; Gaz. vol. 181; p. 908.
Brooms, Dust-catching attachment for. W. A. Meyer. No. 1,024,454; Apr. 23; Sp. p. 5765; Gaz. vol. 177; p. 1003.
Brush. R. J. Montgomery and W. H. Hill. No. 1,013,558; Jan. 2; Sp. p. 1016; Gaz. vol. 174; p. 163.
Brush. I. Bing. No. 1,016,734; Feb. 6; Sp. p. 1126; Gaz. vol. 175; p. 173.
Brush. C. Stahl. No. 1,017,334; Feb. 13; Sp. p. 2445; Gaz. vol. 175; p. 415.
Brush. R L. Anderson. No. 1,022,920; Apr. 9; Sp. p. 2493; Gaz. vol. 177; p. 425.
Brush. F. Houston. No. 1,026,676; May 21; Sp. p. 3487; Gaz. vol. 178; p. 609.
Brush. G. W. Copeland. No. 1,028,547; June 4; Sp. p. 1049; Gaz. vol. 179; p. 160.
Brush. V. M. Le Mieux. No. 1,029,070; June 11; Sp. p. 2170; Gaz. vol. 179; p. 373.
Brush. H. B. Smith. No. 1,030,137; June 18; Sp. p. 4495; Gaz. vol. 179; p. 776.
Brush. S. D. Purdy. No. 1,031,584; July 2; Gaz. vol. 180; p. 254.
Brush. W. F. Purcell. No. 1,032,565; July 16; Gaz. vol. 180; p. 676.
Brush. J. P. Wherry. No. 1,037,697; Sept. 3; Gaz. vol. 182; p. 175.
Brush. W. D. Foss. No. 1,038,552; Sept. 17; Gaz. vol. 182; p. 531.
Brush. G. D. Pushee. No. 1,040,407; Oct. 8; Gaz. vol. 183; p. 277.
Brush. F. M. Case. No. 1,044,488; Nov. 19; Gaz. vol. 184; p. 563.
Brush. W. Cuthbertson. No. 1,044,996; Nov. 19; Gaz. vol. 184; p. 740.
Brush. S. A. Brockway. No. 1,045,669; Nov. 26; Gaz. vol. 184; p. 1007.
Brush, Air-. N. M. Hansen. No. 1,016,143; Jan. 30; Sp. p. 6691; Gaz. vol. 174; p. 1163.
Brush, Air-. O. C. Wold. No. 1,017,358; Feb. 13; Sp. p. 2498; Gaz. vol. 175; p. 423.
Brush, Air-. T. A. De Vilbiss. No. 1,045,266; Nov. 26; Gaz. vol. 184; p. 862.
Brush and comb, Combination. J. Schmitt. No. 1,038,793; Sept. 17; Gaz. vol. 182; p. 616.
Brush and comb, Combination. G. H. Dunham. No. 1,044,361; Nov. 12; Gaz. vol. 184; p. 489.
Brush and comb, Combined electric hair. H. Gernsback. No. 1,016,138; Jan. 30; Sp. p. 6680; Gaz. vol. 174; p. 1161.
Brush and currycomb, Combined. R. N. Sikes. No. 1,036,736; Aug. 27; Gaz. vol. 181; p. 894.
Brush and like article, Shaving-. J. W. Wood. No. 1,048,778; Dec. 31; Gaz. vol. 185; p. 1168.
Brush and mop holder. A. E. Westburg. No. 1,033,972; July 30; Gaz. vol. 180; p. 1216.
Brush and wiper fixture. P. Shannon. No. 1,035,250; Aug. 13; Gaz. vol. 181; p. 315.
Brush-back blank. F. Zielinski. No. 1,039,005; Sept. 17; Gaz. vol. 182; p. 688.
Brush, Bottle-. W. P. Braun. No. 1,034,576; Aug. 6; Gaz. vol. 181; p. 58.
Brush-bristles, Holder for. D. L. Chandler. No. 1,042,393; Oct. 29; Gaz. vol. 183; p. 1045.
Brush-bristles, Machine for cementing. H. P. McMillan. No. 1,037,830; Sept. 3; Gaz. vol. 182; p. 217.
Brush, Calcimine-. G. E. Seaboyer. No. 1,020,373; Mar. 12; Sp. p. 2880; Gaz. vol. 176; p. 488.
Brush case, Tooth-. A. H. Flood. No. 1,029,536; June 11; Sp. p. 3172; Gaz. vol. 179; p. 532.
Brush comb-case, Hair-. C. H. Williams. No. 1,047,868; Dec. 17; Gaz. vol. 185; p. 792.
Brush-cutting knife. F. C. Scott. No. 1,018,784; Feb. 27; Sp. p. 5679; Gaz. vol. 175; p. 982.
Brush, Detachable tooth-. A. L. Bonin. No. 1,020,018; Mar. 12; Sp. p. 2158; Gaz. vol. 176; p. 372.
Brush, Folding tooth-. F. E. Kress. No. 1,033,022; July 16; Gaz. vol. 180; p. 830.
Brush for power marking-machines. W. W. McCoy. (Reissue.) No. 13,400; Apr. 9; Sp. p. 2914; Gaz. vol. 177; p. 496.
Brush for vacuum-cleaners. W. T. Jones. No. 1,038,383; Sept. 10; Gaz. vol. 182; p. 437.
Brush, Fountain-. W. C. Cutler. No. 1,029,173; June 11; Sp. p. 2392; Gaz. vol. 179; p. 408.
Brush, Fountain-. E. Buschman. No. 1,030,383; June 25; Sp. p. 5064; Gaz. vol. 179; p. 903.
Brush, Fountain-. P. Kane. No. 1,032,549; July 16; Gaz. vol. 180; p. 671.
Brush, Fountain-. Z. Langlais. No. 1,039,965; Oct. 1; Gaz. vol. 183; p. 98.
Brush, Fountain-. C. H. Pederson. No. 1,042,032; Oct. 22; Gaz. vol. 183; p. 899.
Brush, Fountain-. G. W. Smith and W. W. Becker. No. 1,044,278; Nov. 12; Gaz. vol. 184; p. 461.
Brush, Fountain-. F. E. Beardsley. No. 1,047,729; Dec. 17; Gaz. vol. 185; p. 744.
Brush, Fountain blacking-. R. T. Overton. No. 1,031,662; July 2; Gaz. vol. 180; p. 282.
Brush, Fountain blacking-. J. F. Schoolfield. No. 1,040,776; Oct. 8; Gaz. vol. 183; p. 407.
Brush, Fountain paint-. T. Watanabe. No. 1,026,009; May 14; Sp. p. 2003; Gaz. vol. 178; p. 345.
Brush, Fountain paint-. T. Watanabe. No. 1,026,010; May 14; Sp. p. 2004; Gaz. vol. 178; p. 346.
Brush, Fountain tooth-. J. E. Tate. No. 1,014,784; Jan. 16; Sp. p. 3778; Gaz. vol. 174;-p. 642.
Brush, Graphite. W. H. Hardman. No. 1,040,315; Oct. 8; Gaz. vol. 183; p. 247.
Brush-holder. S. H. Mortensen. No. 1,017,309; Feb. 13; Sp. p. 2395; Gaz. vol. 175; p. 407.
Brush-holder. C. T. Crocker. No. 1,030,571; June 25; Sp. p. 5555; Gaz. vol. 179; p. 969.
Brush holder, Mucilage-. F. B. Milton. No. 1,013,422; Jan. 2; Sp. p. 738; Gaz. vol. 174; p. 116.
Brush holder, Tooth-. G. T. Greer. No. 1,023,641; Apr. 16; Sp. p. 4008; Gaz. vol. 177; p. 704.
Brush, Lather-. C. E. Thompson. No. 1,013,238; Jan. 2; Sp. p. 327; Gaz. vol. 174; p. 52.
Brush, Lather-. M. L. Brandt. No. 1,047,739; Dec. 17; Gaz. vol. 185; p. 747.
Brush-machine. D. P. Page. No. 1,014,973; Jan. 16; Sp. p. 4208; Gaz. vol. 174; p. 708.
Brush, Magazine-. M. Bohlig. No. 1,013,369; Jan. 2; Sp. p. 613; Gaz. vol. 174; p. 98.
Brush-making machine. G. Kleemann. No. 1,038,763; Sept. 17; Gaz. vol. 182; p. 605.
Brush-making machinery. S. G. Roseman. No. 1,045,325; Nov. 26; Gaz. vol. 184; p. 882.
Brush-manufacturing machine. J. F. Mumford. No. 1,016,951; Feb. 13; Sp. p. 1601; Gaz. vol. 175; p. 282.
Brush, Nail-. R. M. Heath. No. 1,028,211; June 4; Sp. p. 341; Gaz. vol. 179; p. 47.
Brush nozzle, Air-. N. M. Hansen. No. 1,016,144; Jan. 30; Sp. p. 6692; Gaz. vol. 174; p. 1163.
Brush, Paint-. L. S. Rowe. No. 1,033,272; July 23; Gaz. vol. 180; p. 956.
Brush, Paint-. H. B. Williams. No. 1,037,698; Sept. 3; Gaz. vol. 182; p. 176.
Brush, Polishing-. G. Metzger. No. 1,029,077; June 11; Sp. p. 2178; Gaz. vol. 179; p. 375.

Alphabetical list of inventions—Continued.

Brush, Reservoir-. A. Tompkin. No. 1,047,338; Dec. 17; Gaz. vol. 185; p. 608.
Brush, Rotary. W. Stork. No. 1,040,808; Oct. 8; Gaz. vol. 183; p. 418.
Brush, Rotary tooth-. J. Horn. No. 1,022,139; Apr. 2; Sp. p. 823; Gaz. vol. 177; p. 130.
Brush, Rotary tooth-. H. M. Brenenstul. No. 1,038,525; Sept. 17; Gaz. vol. 182; p. 522.
Brush, Scrubbing-. J. D. Bryan. No. 1,041,011; Oct. 15; Gaz. vol. 183; p. 517.
Brush, Self-feeding paint-. A. Jaeschke. No. 1,038,376; Sept. 10; Gaz. vol. 182; p. 435.
Brush, Shaving-. H. D. Sterrick. No. 1,018,939; Feb. 27; Sp. p. 5996; Gaz. vol. 175; p. 1034.
Brush, Shaving-. E. S. Jones. No. 1,019,480; Mar. 5; Sp. p. 1094; Gaz. vol. 176; p. 161.
Brush, Shaving-. J. E. Reis. No. 1,042,967; Oct. 29; Gaz. vol. 183; p. 1245.
Brush, Shaving-. M. W. Kenady. No. 1,044,395; Nov. 12; Gaz. vol. 184; p. 501.
Brush, Shaving-. S. K. Avery. No. 1,047,878; Dec. 17; Gaz. vol. 185; p. 795.
Brush, Soap-feeding shaving-. R. B. Waterman. No. 1,030,440; June 25; Sp. p. 5190; Gaz. vol. 179; p. 923.
Brush, Stencil-. A. D. Cardinet. No. 1,039,094; Sept. 24; Gaz. vol. 182; p. 732.
Brush-support, Adjustable. E. C. Ketchum and D. H. Andrews. No. 1,031,071; July 2; Gaz. vol. 180; p. 79.
Brush, Tooth-. J. J. Sarrazin. No. 1,018,927; Feb. 27; Sp. p. 5970; Gaz. vol. 175; p. 1029.
Brush, Tooth-. A. O. Kretzschmar. No. 1,025,751; May 7; Sp. p. 1417; Gaz. vol. 178; p. 222.
Brush, Tooth-. J. J. Smiddy. No. 1,033,743; July 23; Gaz. vol. 180; p. 1108.
Brush, Tooth-. F. C. Kuinders. No. 1,040,959; Oct. 8; Gaz. vol. 183; p. 466.
Brush, Tooth-. A. L. Holtzman. No. 1,045,552; Nov. 26; Gaz. vol. 184; p. 965.
Brush, Tooth-. J. J. Sarrazin. No. 1,048,740; Dec. 31; Gaz. vol. 185; p. 1153.
Brush, Washable. M. Reinstein. No. 1,031,586; July 2; Gaz. vol. 180; p. 255.
Brush wiper and holder. A. O. Weander. No. 1,046,694; Dec. 10; Gaz. vol. 185; p. 352.
Brushes, Protective covering for tooth-. L. L. Marx. No. 1,041,315; Oct. 15; Gaz. vol. 183; p. 622.
Brushing and polishing device. E. M. Swanson. No. 1,039,333; Sept. 24; Gaz. vol. 182; p. 817.
Bubble-blower. F. H. Cordtmeyer. No. 1,028,994; June 11; Sp. p. 2021; Gaz. vol. 179; p. 347.
Bubble blower, Soap-. T. J. Marshall. No. 1,020,708; Mar. 19; Sp. p. 3632; Gaz. vol. 176; p. 638.
Bubble-cup nozzle. A. Engel. No. 1,020,405; Mar. 19; Sp. p. 2959; Gaz. vol. 176; p. 537.
Bubble-hat. A. L. McMurtry. No. 1,021,323; Mar. 26; Sp. p. 4910; Gaz. vol. 176; p. 897.
Bucket. C. H. Gibson and T. Creede. No. 1,045,017; Nov. 19; Gaz. vol. 184; p. 747.
Bucket. J. B. Hutchins. No. 1,048,411; Dec. 24; Gaz. vol. 185; p. 1001.
Bucket, Clam-shell. C. J. Young. No. 1,037,570; Sept. 3; Gaz. vol. 182; p. 133.
Bucket, Clam-shell. L. J. Robb. No. 1,046,334; Dec. 3; Gaz. vol. 185; p. 186.
Bucket, Collapsible. S. J. Fuhrman. No. 1,039,044; Sept. 17; Gaz. vol. 182; p. 698.
Bucket, Collapsible folding. E. Ellis. No. 1,041,758; Oct. 22; Gaz. vol. 183; p. 804.
Bucket, Dinner-. W. T. Neesham. No. 1,015,455; Jan. 23; Sp. p. 5219; Gaz. vol. 174; p. 897.
Bucket, Dinner-. J. Jusse. No. 1,021,531; Mar. 26; Sp. p. 5392; Gaz. vol. 176; p. 970.
Bucket, Dinner-. E. Koretz. No. 1,022,246; Apr. 2; Sp. p. 1049; Gaz. vol. 177; p. 167.
Bucket, Dinner-. H. P. Beck. No. 1,045,665; Nov. 26; Gaz. vol. 184; p. 1005.
Bucket, Drag-. W. C. Weeks. No. 1,016,860; Feb. 6; Sp. p. 1384; Gaz. vol. 175; p. 214.
Bucket, Drag-. G. H. Williams. No. 1,027,301; May 21; Sp. p. 4895; Gaz. vol. 178; p. 823.
Bucket, Grab-. J. L. Butler. No. 1,024,827; Apr. 30; Sp. p. 6651; Gaz. vol. 177; p. 1170.
Bucket, Heat-insulated. M. W. Priseler and R. W. Rusterholz. No. 1,041,669; Oct. 15; Gaz. vol. 183; p. 738.
Bucket holder, Feed-. J. H. Siner. No. 1,014,264; Jan. 9; Sp. p. 2610; Gaz. vol. 174; p. 435.
Bucket-locking device. A. Curd. No. 1,032,047; July 9; Gaz. vol. 180; p. 456.
Bucket mechanism. C. A. Frayer. No. 1,032,358; July 9; Gaz. vol. 180; p. 562.
Bucket support, Paint-. G. Stahr. No. 1,021,903; Apr. 2; Sp. p. 319; Gaz. vol. 177; p. 53.
Bucket, Well-. W. H. Black. No. 1,015,935; Jan. 30; Sp. p. 6251; Gaz. vol. 174; p. 1089.
Bucket-wheel. P. Wagner. No. 1,021,222; Mar. 26; Sp. p. 4707; Gaz. vol. 176; p. 861.
Buckets, Trolley-retainer for dumping-. W. Heinrich. No. 1,015,179; Jan. 16; Sp. p. 4606; Gaz. vol. 174; p. 777.
Buckle. R. A. Brown. No. 1,013,985; Jan. 9; Sp. p. 2005; Gaz. vol. 174; p. 339.
Buckle. M. A. Cooper. No. 1,018,880; Feb. 27; Sp. p. 5873; Gaz. vol. 175; p. 1013.
Buckle. C. A. Whelan. No. 1,020,731; Mar. 19; Sp. p. 3674; Gaz. vol. 176; p. 647.
Buckle. G. M. Hubbard. No. 1,020,760; Mar. 19; Sp. p. 3740; Gaz. vol. 176; p. 656.
Buckle. C. P. Nutter. No. 1,020,925; Mar. 19; Sp. p. 4069; Gaz. vol. 176; p. 711.
Buckle. R. A. Brown. No. 1,021,088; Mar. 26; Sp. p. 4419; Gaz. vol. 176; p. 818.
Buckle. A. Bienenzucht. No. 1,027,979; May 28; Sp. p. 6346; Gaz. vol. 178; p. 1089.
Buckle. W. Utech. No. 1,029,834; June 18; Sp. p. 3839; Gaz. vol. 179; p. 674.
Buckle. L. W. Wright. No. 1,030,632; June 25; Sp. p. 5794; Gaz. vol. 179; p. 993.
Buckle. E. N. Humphrey. No. 1,032,755; July 16; Gaz. vol. 180; p. 743.
Buckle. W. B. Bliss. No. 1,034,681; Aug. 6; Gaz. vol. 181; p. 92.
Buckle. C. E. Patton. No. 1,037,045; Aug. 27; Gaz. vol. 181; p. 998.
Buckle. L. W. Wright. No. 1,038,256; Sept. 10; Gaz. vol. 182; p. 395.
Buckle. W. C. Fisher. No. 1,039,042; Sept. 17; Gaz. vol. 182; p. 698.
Buckle. W. S. Graham. No. 1,040,187; Oct. 1; Gaz. vol. 183; p. 172.
Buckle. D. H. Warner. No. 1,041,386; Oct. 15; Gaz. vol. 183; p. 645.
Buckle. D. Marinsky. No. 1,044,896; Nov. 19; Gaz. vol. 184; p. 706.
Buckle. G. H. Perrine. No. 1,045,174; Nov. 26; Gaz. vol. 184; p. 830.
Buckle. G. W. Furth. No. 1,047,036; Dec. 10; Gaz. vol. 185; p. 467.
Buckle. L. Singer. No. 1,048,105; Dec. 24; Gaz. vol. 185; p. 898.
Buckle. T. F. Molloy. No. 1,049,127; Dec. 31; Gaz. vol. 185; p. 1288.
Buckle, Apparel-. H. F. Nehr. No. 1,032,420; July 16; Gaz. vol. 180; p. 628.
Buckle, Bale-tie. F. Regenold. No. 1,013,442; Jan. 2; Sp. p. 774; Gaz. vol. 174; p. 123.
Buckle, Bale-tie. S. L. Austin and H. Coles. No. 1,017,366; Feb. 13; Sp. p. 2509; Gaz. vol. 175; p. 425.
Buckle, Bale-tie. J. E. Armstrong. No. 1,021,397; Mar. 26; Sp. p. 5102; Gaz. vol. 176; p. 924.
Buckle, Bale-tie. D. E. Eddleman and F. H. McFarland. No. 1,033,561; July 23; Gaz. vol. 180; p. 1050.
Buckle, Bale-tie. J. L. Evans. No. 1,034,004; July 30; Gaz. vol. 180; p. 1227.
Buckle, Bale-tie. E. L. Barnes. No. 1,046,537; Dec. 10; Gaz. vol. 185; p. 297.
Buckle, Belt-. L. A. Myers, Jr. No. 1,025,991; May 14; Sp. p. 1961; Gaz. vol. 178; p. 338.
Buckle, Belt-. L. Sanders. No. 1,035,643; Aug. 13; Gaz. vol. 181; p. 451.
Buckle, Cross-line. A. L. Cook. No. 1,024,830; Apr. 30; Sp. p. 6656; Gaz. vol. 177; p. 1171.
Buckle-guard. E. J. Elm. No. 1,020,811; Mar. 19; Sp. p. 3839; Gaz. vol. 176; p. 673.
Buckle, Harness-. W. Utech. No. 1,034,326; July 30; Gaz. vol. 180; p. 1339.
Buckle, Harness-. S. E. Crowl. No. 1,044,503; Nov. 19; Gaz. vol. 184; p. 567.
Buckle-making machine. E. A. Frantz. No. 1,034,007; July 30; Gaz. vol. 180; p. 1228.
Buckle or lock, Shoe-lace. C. W. Fischer. No. 1,040,918; Oct. 8; Gaz. vol. 183; p. 453.
Buckle ribbon-clip, Belt-. E. R. Norwood. No. 1,020,840; Mar. 19; Sp. p. 3908; Gaz. vol. 176; p. 683.
Buckle, Rope-. E. L. Wallace. No. 1,029,648; June 18; Sp. p. 3411; Gaz. vol. 179; p. 607.
Buckle, Shoe-. E. A. Guthman. No. 1,025,743; May 7; Sp. p. 1404; Gaz. vol. 178; p. 220.
Buckle, Suspender-. A. Van Brunt. No. 1,021,018; Mar. 26; Sp. p. 4276; Gaz. vol. 176; p. 794.
Buckle, Take-up. R. Miller. No. 1,033,338; July 23; Gaz. vol. 180; p. 977.
Budding-tool. J. F. Jones. No. 1,016,831; Feb. 6; Sp. p. 1326; Gaz. vol. 175; p. 204.
Buffer and anticlimber construction, Combined. P. W. Robertson. No. 1,049,268; Dec. 31; Gaz. vol. 185; p. 1335.
Buffer-beam. C. T. Westlake. No. 1,016,592; Feb. 6; Sp. p. 829; Gaz. vol. 175; p. 124.
Buffer-beam. C. T. Westlake. No. 1,016,593; Feb. 6; Sp. p. 830; Gaz. vol. 175; p. 124.
Buffer-beam. C. T. Westlake. No. 1,022,716; Apr. 9; Sp. p. 2077; Gaz. vol. 177; p. 257.
Buffer-beam. C. T. Westlake. No. 1,024,756; Apr. 30; Sp. p. 6502; Gaz. vol. 177; p. 1145.
Buffer, Nail-. H. C. Bates. No. 1,023,915; Apr. 23; Sp. p. 4610; Gaz. vol. 177; p. 820.
Buffer, Reversible. H. Mendelsohn. No. 1,014,629; Jan. 9; Sp. p. 3396; Gaz. vol. 174; p. 559.
Buffing articles of sheet material, Machine for. F. A. Thurston. No. 1,047,335; Dec. 17; Gaz. vol. 185; p. 607.

Alphabetical list of inventions—Continued.

Buffing device. C. E. Graham. No. 1,048,957; Dec. 31; Gaz. vol. 185; p. 1228.
Buffing-machine. A. Bates. No. 1,013,726; Jan. 2; Sp. p. 1405; Gaz. vol. 174; p. 221.
Buffing-machine. E. R. Douglas. No. 1,022,128; Apr. 2; Sp. p. 793; Gaz. vol. 177; p. 126.
Buffing-machine. G. B. Grover. No. 1,024,628; Apr. 30; Sp. p. 6242; Gaz. vol. 177; p. 1100.
Buffing-machine, Automatic. A. C. Fyfe and W. E. Gladstone. No. 1,017,864; Feb. 20; Sp. p. 3608; Gaz. vol. 175; p. 632.
Buffing-roll. W. H. Staynes. No. 1,029,406; June 11; Sp. p. 2923; Gaz. vol. 179; p. 489.
Buggy-seat, Removable. M. Rockwell. No. 1,042,603; Oct. 29; Gaz. vol. 183; p. 1121.
Buggy-top. J. A. Orr. No. 1,019,692; Mar. 5; Sp. p. 1490; Gaz. vol. 176; p. 231.
Buggy-top. W. I. Zirkle. No. 1,040,483; Oct. 8; Gaz. vol. 183; p. 302.
Buggy-top support. J. Bennett. No. 1,023,800; Apr. 23; Sp. p. 4302; Gaz. vol. 177; p. 781.
Buggy-valance. C. W. Fisher. No. 1,040,180; Oct. 1; Gaz. vol. 183; p. 170.
Building and vessel ventilator. T. Kernchen. No. 1,033,805; July 30; Gaz. vol. 180; p. 1156.
Building-block. E. L. Dobbins. No. 1,019,228; Mar. 5; Sp. p. 486; Gaz. vol. 176; p. 78.
Building-block. E. J. McGettigan. No. 1,023,748; Apr. 16; Sp. p. 4183; Gaz. vol. 177; p. 735.
Building-block. E. J. McGettigan. No. 1,023,785; Apr. 16; Sp. p. 4252; Gaz. vol. 177; p. 747.
Building-block. A. S. Nash. No. 1,024,276; Apr. 23; Sp. p. 5404; Gaz. vol. 177; p. 946.
Building-block. W. H. Koenig. No. 1,025,406; May 7; Sp. p. 661; Gaz. vol. 178; p. 104.
Building-block. F. W. Dunn. No. 1,028,814; June 4; Sp. p. 1598; Gaz. vol. 179; p. 250.
Building-block. F. Burchartz. No. 1,029,530; June 11; Sp. p. 3158; Gaz. vol. 179; p. 530.
Building-block. F. Burchartz. No. 1,047,614; Dec. 17; Gaz. vol. 185; p. 703.
Building-block mold. R. C. Williamson. No. 1,031,897; July 9; Gaz. vol. 180; p. 407.
Building construction. T. J. George. No. 1,013,385; Jan. 2; Sp. p. 655; Gaz. vol. 174; p. 104.
Building construction. L. K. Davis. No. 1,017,386; Feb. 13; Sp. p. 2556; Gaz. vol. 175; p. 432.
Building construction. S. Giletti. No. 1,022,841; Apr. 9; Sp. p. 2332; Gaz. vol. 177; p. 398.
Building construction. C. O. McGavic. No. 1,027,266; May 21; Sp. p. 4813; Gaz. vol. 178; p. 812.
Building construction. G. W. Hansbrough. No. 1,031,926; July 9; Gaz. vol. 180; p. 416.
Building construction. J. Kahn. No. 1,033,106; July 23; Gaz. vol. 180; p. 898.
Building construction. J. D. Rives. No. 1,037,321; Sept. 3; Gaz. vol. 182; p. 48.
Building construction. A. Westendorf. No. 1,038,467; Sept. 10; Gaz. vol. 182; p. 469.
Building construction. L. K. Davis. No. 1,041,245; Oct. 15; Gaz. vol. 183; p. 597.
Building construction. E. D. Martin. (Reissue.) No. 13,488; Nov. 19; Gaz. vol. 184; p. 782.
Building construction. F. B. Gilbreth. No. 1,046,582; Dec. 10; Gaz. vol. 185; p. 312.
Building construction. T. S. Smith. No. 1,046,668; Dec. 10; Gaz. vol. 185; p. 342.
Building construction. E. L. Williams. No. 1,046,701; Dec. 10; Gaz. vol. 185; p. 355.
Building construction. H. J. Wagner. No. 1,046,910; Dec. 10; Gaz. vol. 185; p. 426.
Building construction and block therefor. W. H. Ricker. No. 1,016,957; Feb. 13; Sp. p. 1619; Gaz. vol. 175; p. 284.
Building-construction corner-bead. J. H. Von Rehder. No. 1,035,278; Aug. 13; Gaz. vol. 181; p. 324.
Building construction, Metal. M. J. McMartin. No. 1,047,263; Dec. 17; Gaz. vol. 185; p. 578.
Building-frame structure, Composite. R. H. Robinson. No. 1,038,440; Sept. 10; Gaz. vol. 182; p. 459.
Building-light. J. Stanley. No. 1,046,886; Dec. 10; Gaz. vol. 185; p. 418.
Building light and ventilator. P. Schwickart. No. 1,037,668; Sept. 3; Gaz. vol. 182; p. 166.
Building material. C. S. Bird. No. 1,036,427; Aug. 20; Gaz. vol. 181; p. 759.
Building material. K. E. Becker and J. L. Knapp. No. 1,048,484; Dec. 31; Gaz. vol. 185; p. 1064.
Building-material construction. A. M. Zimmers. No. 1,023,059; Apr 9; Sp. p. 2780; Gaz. vol. 177; p. 473.
Building-slab. A. White. No. 1,017,067; Feb. 13; Sp. p. 1857; Gaz. vol. 175; p. 322.
Building-stones, Machine for making. W. A. Todd. No. 1,027,935; May 28; Sp. p. 6251; Gaz. vol. 178; p. 1074.
Building structure. W. Schweikert. No. 1,014,416; Jan. 9; Sp. p. 2949; Gaz. vol. 174; p. 489.
Building structure. M. F. McCarthy. No. 1,027,058; May 21; Sp. p. 4373; Gaz. vol. 178; p. 742.
Building structures, Load-supporting column for. A. F. Anderson. No. 1,024,761; Apr. 30; Sp. p. 6512; Gaz. vol. 177; p. 1147.
Buildings, Ferroconcrete construction of. T. I. Yourelle and J. Bellingham. No. 1,038,257; Sept. 10; Gaz. vol. 182; p. 395.
Buildings, Frame for openings in. D. G. Johnston. No. 1,044,533; Nov. 19; Gaz. vol. 184; p. 579.
Bulb. H. W. Lester. No. 1,025,986; May 14; Sp. p. 1949; Gaz. vol. 178; p. 337.
Bulge-hoop for barrels. H. Kaestner. No. 1,014,005; Jan. 9; Sp. p. 2049; Gaz. vol. 174; p. 345.
Bulkhead-openings and the like, Protective plates for. G. Mazzolini. No. 1,022,688; Apr. 9; Sp. p. 1989; Gaz. vol. 177; p. 345.
Bulletin-board. G. H. Parker. (Reissue.) No. 13,484; Oct. 29; Gaz. vol. 183; p. 1279.
Bulletin-board. A. M. Henry. No. 1,043,765; Nov. 5; Gaz. vol. 184; p. 252.
Bulletin board, Base-ball-. G. H. Parker. No. 1,043,536; Nov. 5; Gaz. vol. 184; p. 176.
Bumper. F. Pélissier. No. 1,049,261; Dec. 31; Gaz. vol. 185; p. 1333.
Bumper and fender, Combined. H. T. Myers. No. 1,026,279; May 14; Sp. p. 2613; Gaz. vol. 178; p. 438.
Bumping-machine. H. L. Demmler. No. 1,045,956; Dec. 3; Gaz. vol. 185; p. 55.
Bumping-post. A. L. Belt. No. 1,027,098; May 21; Sp. p. 4483; Gaz. vol. 178; p. 756.
Bundle-carrier. T. E. Somerville. No. 1,020,722; Mar. 19; Sp. p. 3661; Gaz. vol. 176; p. 644.
Bundle-loading device. S. Hug. No. 1,024,854; Apr. 30; Sp. p. 6706; Gaz. vol. 177; p. 1180.
Bundle-tying device. E. E. Eppstein. No. 1,033,683; July 23; Gaz. vol. 180; p. 1089.
Bundle-tying machine. C. M. Sonney. No. 1,047,456; Dec. 17; Gaz. vol. 185; p. 646.
Bundling-machine. R. C. Lowry and F. Emmerich. No. 1,026,754; May 21; Sp. p. 3651; Gaz. vol. 178; p. 635.
Bundling-machine. D. B. Williams. No. 1,031,156; July 2; Gaz. vol. 180; p. 109.
Bundling-machine, Automatic. S. C. Cox. No. 1,039,366; Sept. 24; Gaz. vol. 182; p. 828.
Bung. G. Stroh. No. 1,028,148; June 4; Sp. p. 151; Gaz. vol. 179; p. 23.
Bung and bushing therefor. H. Nadorff. No. 1,039,994; Oct. 1; Gaz. vol. 183; p. 108.
Bung-holes of casks, &c., Tool for closing. A. Turek. No. 1,049,173; Dec. 31; Gaz. vol. 185; p. 1301.
Bunk or body-bolster. J. M. Rohlfing. No. 1,029,145; June 11; Sp. p. 2335; Gaz. vol. 179; p. 398.
Buoy. R. W. Earle. No. 1,026,977; May 21; Sp. p. 4178; Gaz. vol. 178; p. 713.
Buoy. E. S. Fidler. No. 1,048,671; Dec. 31; Gaz. vol. 185; p. 1131.
Buoy-guard. H. L. Bethel. No. 1,037,111; Aug. 27; Gaz. vol. 181; p. 1021.
Buoy, Shipwreck-. W. H. Hambly. No. 1,032,207; July 9; Gaz. vol. 180; p. 510.
Burette. J. D. Rose. No. 1,013,448; Jan. 2; Sp. p. 783; Gaz. vol. 174; p. 125.
Burglar-alarm. W. H. Reiff. No. 1,016,034; Jan. 30; Sp. p. 6469; Gaz. vol. 174; p. 1125.
Burglar-alarm. F. C. Ries. No. 1,018,926; Feb. 27; Sp. p. 5968; Gaz. vol. 175; p. 1028.
Burglar-alarm. A. B. Lowe. No. 1,019,264; Mar. 5; Sp. p. 564; Gaz. vol. 176; p. 90.
Burglar-alarm. O. L. Davis. No. 1,029,281; June 11; Sp. p. 2622; Gaz. vol. 179; p. 445.
Burglar-alarm. W. G. Spiegel. No. 1,030,138; June 18; Sp. p. 4497; Gaz. vol. 179; p. 776.
Burglar-alarm. G. H. Lucier. No. 1,030,196; June 18; Sp. p. 4626; Gaz. vol. 179; p. 796.
Burglar-alarm. J. A. Carlson. No. 1,030,461; June 25; Sp. p. 5233; Gaz. vol. 179; p. 931.
Burglar-alarm. G. De Giovanni. No. 1,031,535; July 2; Gaz. vol. 180; p. 238.
Burglar-alarm. M. T. Morgan. No. 1,031,951; July 9; Gaz. vol. 180; p. 425.
Burglar-alarm. F. C. Hatch. No. 1,039,126; Sept. 24; Gaz. vol. 182; p. 743.
Burglar-alarm. T. J. Halstead. No. 1,040,312; Oct. 8; Gaz. vol. 183; p. 246.
Burglar-alarm. A. Zukor. No. 1,046,533; Dec. 10; Gaz. vol. 185; p. 295.
Burglar-alarm. G. H. Gunderson. No. 1,046,776; Dec. 10; Gaz. vol. 185: p. 382.
Burglar-alarm and lock for windows. E. C. Kahn. No. 1,031,008; July 2; Gaz. vol. 180; p. 56.
Burglar-alarm attachment. G. A. Brewster. No. 1,024,972; Apr. 30; Sp. p. 6940; Gaz. vol. 177; p. 1220.
Burglar-alarm, Automatic. W. W. Erwin. No. 1,030,067; June 18; Sp. p. 4364; Gaz. vol. 179; p. 753.
Burglar-alarm, Electric. T. W. Keenleyside. No. 1,039,142; Sept. 24; Gaz. vol. 182; p. 749.
Burglar-alarm, Electrical. W. K. Cook. No. 1,016,936; Feb. 13; Sp. p. 1562; Gaz. vol. 175; p. 277.
Burglar-alarm system. M. F. Juruick. No. 1,019,481; Mar. 5; Sp. p. 1094; Gaz. vol. 176; p. 161.
Burglar-alarm system. M. F. Juruick. No. 1,038,594; Sept. 17; Gaz. vol. 182; p. 546.
Burglar and fire alarm. J. Hartley. No. 1,026,393; May 14; Sp. p. 2879; Gaz. vol. 178; p. 477.

Alphabetical list of inventions—Continued.

Burglar-trap. I. Raffel. No. 1,024,224; Apr. 23; Sp. p. 5299; Gaz. vol. 177; p. 928.
Burial apparatus. T. Keith. No. 1,028,735; June 4; Sp. p. 1436; Gaz. vol. 179; p. 223.
Burial apparatus. E. Knell. No. 1,041,812; Oct. 22; Gaz. vol. 183; p. 825.
Burial-box. W. J. Drummond. No. 1,024,471; Apr. 23; Sp. p. 5810; Gaz. vol. 177; p. 1010.
Burial-case. P. D. Skahen. (Reissue.) No. 13,350; Jan. 2; Sp. p. 1701; Gaz. vol. 174; p. 269.
Burial-case. F. R. Raddatz. No. 1,033,733; July 23; Gaz. vol. 180; p. 1105.
Burial-case clamp. P. D. Skahen. No. 1,019,094; Mar. 5; Sp. p. 192; Gaz. vol. 176; p. 30.
Burial-case corner construction. P. D. Skahen. No. 1,048,749; Dec. 31; Gaz. vol. 185; p. 1156.
Burner: *See* Air and gas burner; Alcohol-burner; Automatic safety-burner; Auxiliary burner; Base-burner; Brazing-burner; Gas-burner; Gas and like burner; Gas-lighting burner; Hydrocarbon-burner; Incandescent-mantle burner; Inverted burner; Kerosene-burner; Lamp-burner; Liquid-burner; Liquid and gaseous fuel burner; Liquid-fuel burner; Oil-burner; Oil and gas burner; Oil and steam burner; Ore-burner; Range-burner; Smoke-burner; Spray-burner; Stove-burner; Stump-burner; Sulfur-burner; Vapor-burner; Welding-burner.
Burner. H. Littleton. No. 1,014,496; Jan. 9; Sp. p. 3089; Gaz. vol. 174; p. 513.
Burner. J. Antonuccio. No. 1,014,932; Jan. 16; Sp. p. 4120; Gaz. vol. 174; p. 694.
Burner. W. Booth. No. 1,019,592; Mar. 5; Sp. p. 1311; Gaz. vol. 176; p. 197.
Burner. H. W. Gardner. No. 1,020,348; Mar. 12; Sp. p. 2833; Gaz. vol. 176; p. 480.
Burner. D. H. Lynde. No. 1,021,056; Mar. 26; Sp. p. 4355; Gaz. vol. 176; p. 808.
Burner. W. E. McCoy. No. 1,022,861; Apr. 9; Sp. p. 2367; Gaz. vol. 177; p. 405.
Burner. E. J. Spink. No. 1,025,025; Apr. 30; Sp. p. 7045; Gaz. vol. 177; p. 1238.
Burner. D. Hamilton. No. 1,026,982; May 21; Sp. p. 4189; Gaz. vol. 178; p. 715.
Burner. R. C. Frampton. No. 1,027,832; May 28; Sp. p. 5993; Gaz. vol. 178; p. 1040.
Burner. E. H. Schwartz. No. 1,027,912; May 28; Sp. p. 6215; Gaz. vol. 178; p. 1067.
Burner. T. F. Kent. No. 1,030,824; June 25; Sp. p. 6361; Gaz. vol. 179; p. 1062.
Burner. H. Littleton. No. 1,031,278; July 2; Gaz. vol. 180; p. 152.
Burner. J. O. Brookbank. No. 1,032,811; July 16; Gaz. vol. 180; p. 761.
Burner. R. and A. Runnion. No. 1,034,304; July 30; Gaz. vol. 180; p. 1331.
Burner. G. C. Gill. No. 1,039,513; Sept. 24; Gaz. vol. 182; p. 881.
Burner. J. D. Langston. No. 1,045,044; Nov. 19; Gaz. vol. 184; p. 757.
Burner. C. A. Yates. No. 1,045,351; Nov. 26; Gaz. vol. 184; p. 892.
Burner. H. W. Foster and L. C. Hill. No. 1,047,028; Dec. 10; Gaz. vol. 185; p. 464.
Burner. F. L. Kittredge. No. 1,047,241; Dec. 17; Gaz. vol. 185; p. 570.
Burner. J. L. Landry. No. 1,047,250; Dec. 17; Gaz. vol. 185; p. 573.
Burner. P. T. Lemaster. No. 1,049,110; Dec. 31; Gaz. vol. 185; p. 1282.
Burner and blowpipe, Combination. A. H. Schilke. No. 1,029,031; June 11; Sp. p. 2092; Gaz. vol. 179; p. 360.
Burner attachment. E. M. Lloyd. No. 1,035,455; Aug. 13; Gaz. vol. 181; p. 387.
Burner for inflammable volatile fluids. L. B. Curtis. No. 1,023,363; Apr. 16; Sp. p. 3441; Gaz. vol. 177; p. 614.
Burner-igniter. W. J. Best. No. 1,020,075; Mar. 12; Sp. p. 2269; Gaz. vol. 176; p. 391.
Burner-shade support. C. Kuenholdt. No. 1,013,943; Jan. 9; Sp. p. 1912; Gaz. vol. 174; p. 325.
Burner-supply connection. W. R. Jeavons. No. 1,039,950; Oct. 1; Gaz. vol. 183; p. 93.
Burner-supporter. A. G. Sherman. No. 1,048,359; Dec. 24; Gaz. vol. 185; p. 983.
Burners. Electric preheater for pilot-. A. Doble. No. 1,040,289; Oct. 8; Gaz. vol. 183; p. 237.
Burners. Pressure-controlled means for hydrocarbon-. C. O. Barion. No. 1,040,973; Oct. 8; Gaz. vol. 183; p. 472.
Burnishing and indenting tool. C. F. Bennion. No. 1,034,062; July 30; Gaz. vol. 180; p. 1248.
Burnishing-machine. W. B. Keighley. No. 1,031,674; July 2; Gaz. vol. 180; p. 286.
Burnishing-machine. C. F. Stackpole. No. 1,041,692; Oct. 15; Gaz. vol. 183; p. 745.
Burnishing-tool. Z. Beaudry. No. 1,030,049; June 18; Sp. p. 4327; Gaz. vol. 179; p. 747.
Bus-bar-connecting device. F. B. Adam. No. 1,030,798; June 25; Sp. p. 6225; Gaz. vol. 179; p. 1052.
Bush-flanger. F. X. Pfluger. No. 1,014,902; Jan. 16; Sp. p. 4041; Gaz. vol. 174; p. 683.
Bushing, Adjustable. L. A. Alexander. No. 1,031,410; July 2; Gaz. vol. 180; p. 197.
Bushing, Outlet-. F. W. Erickson. No. 1,030,293; June 25; Sp. p. 4857; Gaz. vol. 179; p. 869.
Bushing, Outlet-box. P. C. Schorr. No. 1,041,888; Oct. 22; Gaz. vol. 183; p. 852.
Bushing, Shaft-. A. Rankeillor. No. 1,040,579; Oct. 8; Gaz. vol. 183; p. 338.
Business systems, Means for carrying out. E. Caverly. No. 1,032,111; July 9; Gaz. vol. 180; p. 476.
Bust-supporter. L. Martell and E. J. Payne. No 1,020,213; Mar. 12; Sp. p. 2580; Gaz. vol. 176; p. 438.
Bustle and hip-form, Combined. C. H. Scott. No. 1,036,731; Aug. 27; Gaz. vol. 181; p. 893.
Butt-stock for shoulder-arms. T. C. Johnson. No. 1,025,529; May 7; Sp. p. 949; Gaz. vol. 178; p. 147.
Butt-stock for shoulder-arms. W. H. Tilton. No. 1,025,550; May 7; Sp. p. 997; Gaz. vol. 178; p. 154.
Butter, Composition. L. O. and O. A. Fox. No. 1,014,457; Jan. 9; Sp. p. 3028; Gaz. vol. 174; p. 502.
Butter-cutter. H. B. Waters. No. 1,027,020; May 21; Sp. p. 4278; Gaz. vol. 178; p. 728.
Butter-cutter. A. L. Oliver. No. 1,042,257; Oct. 22; Gaz. vol. 183; p. 972.
Butter-cutter. L. B. Larsen. No. 1,045,988; Dec. 3; Gaz. vol. 185; p. 65.
Butter-cutting machine. H. Neumann and C. R. Annett. No. 1,018,516; Feb. 27; Sp. p. 5105; Gaz. vol. 175; p. 890.
Butter-cutting machine. W. H. Robinson. No. 1,047,298; Dec. 17; Gaz. vol. 185; p. 592.
Butter-flavoring. H. C. Buer. No. 1,014,690; Jan. 16; Sp. p. 3571; Gaz. vol. 174; p. 611.
Butter, Making. A. W. K. Witte. No. 1,039,627; Sept. 24; Gaz. vol. 182; p. 920.
Butter, Making and packaging. J. De Lisle. No. 1,014,574; Jan. 9; Sp. p. 3236; Gaz. vol. 174; p. 539.
Butter, Making and preserving. J. M. W. Kitchen. No. 1,026,918; May 21; Sp. p. 4034; Gaz. vol. 178; p. 692.
Butter, Making composition. R. D. Winship and P. E. Smith. No. 1,028,804; June 4; Sp. p. 1581; Gaz. vol. 179; p. 247.
Butter, Producing. A. Fay. No. 1,034,350; July 30; Gaz. vol. 180; p. 1348.
Butter, Purifying. I. Worrill. No. 1,045,926; Dec. 3; Gaz. vol. 185; p. 45.
Butter, Renovating. J. D. Oudsteyn. No. 1,042,471; Oct. 29; Gaz. vol. 183; p. 1074.
Butter-separator, Aerating. A. Fay. No. 1,019,235; Mar. 5; Sp. p. 503; Gaz. vol. 176; p. 79.
Butter-separator, Aerating. A. Fay. No. 1,027,531; May 28; Sp. p. 5359; Gaz. vol. 178; p. 939.
Butter-separator, Aerating. A. Fay. No. 1,028,869; June 11; Sp. p. 1734; Gaz. vol. 179; p. 303.
Butter substitute and making the same. F. Kronenberger. No. 1,024,009; Apr. 23; Sp. p. 4794; Gaz. vol. 177; p. 851.
Butter substitute, Hydrogenated. C. Ellis. No. 1,038,545; Sept. 17; Gaz. vol. 182; p. 529.
Button. S. Gogel and M. Bernstein. No. 1,027,473; May 28; Sp. p. 5243; Gaz. vol. 178; p. 920.
Button. E. Brumberg. No. 1,035,080; Aug. 6; Gaz. vol. 181; p. 225.
Button. D. C. Wolf. No. 1,040,831; Oct. 8; Gaz. vol. 183; p. 425.
Button. S. C. Radford. No. 1,043,251; Nov. 5; Gaz. vol. 184; p. 73.
Button and cutter, Combined cuff-. L. Kalina. No. 1,048,415; Dec. 24; Gaz. vol. 185; p. 1002.
Button and drawers support. W. A. Bryant. No. 1,025,783; May 7; Sp. p. 1478; Gaz. vol. 178; p. 233.
Button, Bachelor-. F. E. Warner. No. 1,040,065; Oct. 1; Gaz. vol. 183; p. 131.
Button, Collar-. H. C. Degner, Jr. No. 1,026,153; May 14; Sp. p. 2345; Gaz. vol. 178; p. 396.
Button, Collar and cuff. M. E. Blatchley. No. 1,047,156; Dec. 17; Gaz. vol. 185; p. 539.
Button, Collar-clasping collar-. J. P. Carr. No. 1,032,588; July 16; Gaz. vol. 180; p. 683.
Button-covering fabric. G. E. Clauss. No. 1,027,690; May 28; Sp. p. 5692; Gaz. vol. 178; p. 992.
Button, Cuff-. J. Rosenman. No. 1,030,541; June 25; Sp. p. 5458; Gaz. vol. 179; p. 959.
Button, Cuff-. E. R. Collett. No. 1,044,354; Nov. 12; Gaz. vol. 184; p. 488.
Button, Cuff-. H. C. Johnson. No. 1,046,422; Dec. 3; Gaz. vol. 185; p. 218.
Button-fastener. C. S. Comstock, Sr. No. 1,024,118; Apr. 23; Sp. p. 5056; Gaz. vol. 177; p. 891.
Button-fastener. C. J. Anderson. No. 1,026,017; May 14; Sp. p. 2014; Gaz. vol. 178; p. 348.
Button-fastener. M. E. Brown. No. 1,032,735; July 16; Gaz. vol. 180; p. 736.
Button-fly stay. B. F. Chamberlin, Jr. No. 1,044,138; Nov. 12; Gaz. vol. 184; p. 412.
Button for suit-case locks. L. M. Dyson. No. 1,023,823; Apr. 23; Sp. p. 4364; Gaz. vol. 177; p. 789.
Button-grinding machine. W. Herzog. No. 1,032,829; July 16; Gaz. vol. 180; p. 767.
Button-holder. J. L. Freshel. No. 1,042,663; Oct. 29; Gaz. vol. 183; p. 1142.

Alphabetical list of inventions—Continued.

Button, Illuminated vest or coat. E. S. Lagarde and P. A. Angenend, Jr. No. 1,030,516; June 25; Sp. p. 5396; Gaz. vol. 179; p. 950.
Button, Link-. R. J. Taupert. No. 1,041,371; Oct. 15; Gaz. vol. 183; p. 640.
Button-machine. H. J. Skipp. No. 1,029,238; June 11; Sp. p. 2535; Gaz. vol. 179; p. 430.
Button-making machine. W. Renschak. No. 1,016,441; Feb. 6; Sp. p. 468; Gaz. vol. 175; p. 72.
Button-making machine. F. M. Keane. No. 1,036,857; Aug. 27; Gaz. vol. 181; p. 936.
Button retainer, Collar-. H. Hoflander. No. 1,028,024; May 28; Sp. p. 6426; Gaz. vol. 178; p. 1103.
Button-setting machine. D. C. Sasseman. No. 1,020,058; Mar. 12; Sp. p. 2232; Gaz. vol. 176; p. 385.
Button-setting machines, Button-feeding mechanism for. W. E. Elliott. No. 1,032,389; July 16; Gaz. vol. 180; p. 617.
Button-setting tools, Automatic feed mechanism for. W. E. Elliott. No. 1,032,387; July 16; Gaz. vol. 180; p. 616.
Button-setting tools, Automatic feed mechanism for manually-operated. W. E. Elliott. No. 1,032,388; July 16; Gaz. vol. 180; p. 617.
Button-setting tools, Fastener-guide for. W. E. Elliott. No. 1,032,390; July 16; Gaz. vol. 180; p. 618.
Button-shanking machine. H. Hall. No. 1,046,462; Dec. 10; Gaz. vol. 185; p. 269.
Button, Snap-. M. E. E. Paetzold. No. 1,031,022; July 2; Gaz. vol. 180; p. 61.
Button tab-end. J. B. Russ and H. J. Stuart. No. 1,042,146; Oct. 22; Gaz. vol. 183; p. 936.
Buttons and badges, Attaching means for. J. L. Lynch. No. 1,045,160; Nov. 26; Gaz. vol. 184; p. 825.
Buttonhole and button location marking machine. B. T. Leveque. No. 1,014,657; Jan. 16; Sp. p. 3494; Gaz. vol. 174; p. 599.
Buttonhole attachment. D. L. Cardinal. No. 1,025,682; May 7; Sp. p. 1274; Gaz. vol. 178; p. 198.
Buttonhole-cutting mechanism. J. G. Greene and L. F. A. Büchner. No. 1,035,344; Aug. 13; Gaz. vol. 181; p. 349.
Buttonhole-cutting mechanism. E. B. Allen. No. 1,048,786; Dec. 31; Gaz. vol. 185; p. 1170.
Buttonhole-machine. G. J. Dormandy. No. 1,015,011; Jan. 16; Sp. p. 4290; Gaz. vol. 174; p. 721.
Buttonhole-machine. H. C. Miller. No. 1,038,411; Sept. 10; Gaz. vol. 182; p. 448.
Buttonhole-marking machine. P. K. Williams. No. 1,014,275; Jan. 9; Sp. p. 2630; Gaz. vol. 174; p. 439.
Buttonhole-marking machine. P. K. Williams and J. F. La Borde. No. 1,029,735; June 18; Sp. p. 3629; Gaz. vol. 179; p. 639.
Buttonhole, Stitched. E. B. Allen. No. 1,040,839; Oct. 8; Gaz. vol. 183; p. 427.
Buttonhole, Stitched. E. B. Allen. No. 1,040,840; Oct. 8; Gaz. vol. 183; p. 427.
By-pass, Automatically-controlled. A. L. Björkstam and J. M. Ferguson. No. 1,031,514; July 2; Gaz. vol. 180; p. 231.
Cab-stand-controlling apparatus. T. Drost. No. 1,044,151; Nov. 12; Gaz. vol. 184; p. 417.
Cabinet. H. C. Muir. No. 1,015,060; Jan. 16; Sp. p. 4390; Gaz. vol. 174; p. 737.
Cabinet. I. H. Miller. No. 1,030,111; June 18; Sp. p. 4449; Gaz. vol. 179; p. 769.
Cabinet. O. Aronson. No. 1,033,977; July 30; Gaz. vol. 180; p. 1217.
Cabinet. G. Maley and F. Schweinfurth. No. 1,034,632; Aug. 6; Gaz. vol. 181; p. 76.
Cabinet. M. E. Elliott. No. 1,041,986; Oct. 22; Gaz. vol. 183; p. 884.
Cabinet, Account-. H. B. White. No. 1,032,457; July 16; Gaz. vol. 180; p. 639.
Cabinet, Account-. B. C. Maxwell. No. 1,048,088; Dec. 24; Gaz. vol. 185; p. 893.
Cabinet and cupboard, Combined kitchen-. C. F. Welge. No. 1,046,242; Dec. 3; Gaz. vol. 185; p. 155.
Cabinet and dough-raiser. A. McGarvey. No. 1,019,815; Mar. 12; Sp. p. 1736; Gaz. vol. 176; p. 304.
Cabinet and floor scraper. C. S. Dikeman. No. 1,041,979; Oct. 22; Gaz. vol. 183; p. 881.
Cabinet and printer for toilet-paper, Combined. W. G. Stewart and L. Gauermann. No. 1,014,026; Jan. 9; Sp. p. 2097; Gaz. vol. 174; p. 352.
Cabinet and sterilizer. D. L. Cloud. No. 1,032,882; July 16; Gaz. vol. 180; p. 784.
Cabinet and tray, Combined. W. Booth. No. 1,015,664; Jan. 23; Sp. p. 5676; Gaz. vol. 174; p. 970.
Cabinet and trays therefor. H. L. Karstedt. No. 1,015,686; Jan. 23; Sp. p. 5740; Gaz. vol. 174; p. 978.
Cabinet, Aseptic kitchen-. H. E. Bown. No. 1,036,066; Aug. 20; Gaz. vol. 181; p. 631.
Cabinet, Barber's. G. Tous. No. 1,026,478; May 14; Sp. p. 3067; Gaz. vol. 178; p. 505.
Cabinet, Cigar-box. J. J. McCarthy. No. 1,039,163; Sept. 24; Gaz. vol. 182; p. 755.
Cabinet-clamp. S. W. Haines. No. 1,045,974; Dec. 3; Gaz. vol. 185; p. 61.
Cabinet, Clothing-. P. Schiefer. No. 1,024,366; Apr. 23; Sp. p. 5552; Gaz. vol. 177; p. 973.
Cabinet, Collapsible. F. F. Burdick. No. 1,028,326; June 4; Sp. p. 570; Gaz. vol. 179; p. 85.
Cabinet, Collapsible. F. F. Burdick. No. 1,048,807; Dec. 31; Gaz. vol. 185; p. 1178.
Cabinet, Combination-. C. L. Hunter. No. 1,023,204; Apr. 16; Sp. p. 3139; Gaz. vol. 177; p. 562.
Cabinet, Combined registering and supporting. R. H. Trickle. No. 1,048,605; Dec. 31; Gaz. vol. 185; p. 1106.
Cabinet, Cooking-. W. A. Campbell. No. 1,046,734; Dec. 10; Gaz. vol. 185; p. 366.
Cabinet, Desk-. E. W. Grogan. No. 1,045,395; Nov. 26; Gaz. vol. 184; p. 906.
Cabinet, Doily-. B. F. Hunter. No. 1,014,598; Jan. 9; Sp. p. 3282; Gaz. vol. 174; p. 547.
Cabinet, Electric-meter and panel-board. W. Wurdack. No. 1,041,398; Oct. 15; Gaz. vol. 183; p. 649.
Cabinet, Expansible. D. E. Hunter. No. 1,020,557; Mar. 19; Sp. p. 3290; Gaz. vol. 176; p. 588.
Cabinet, Folding. J. H. Tallman. No. 1,030,033; June 18; Sp. p. 4276; Gaz. vol. 179; p. 741.
Cabinet, Food-warming. J. Smith. No. 1,016,791; Feb. 6; Sp. p. 1249; Gaz. vol. 175; p. 192.
Cabinet for holding manifolding devices. C. W. Byham. No. 1,029,576; June 11; Sp. p. 3257; Gaz. vol. 179; p. 547.
Cabinet for holding talking-machine records. H. C. Brown. No. 1,038,841; Sept. 17; Gaz. vol. 182; p. 633.
Cabinet for trousers. J. Finnell and J. L. Hamilton. No. 1,048,400; Dec. 24; Gaz. vol. 185; p. 998.
Cabinet, Grocer's. W. E. Lewis. No. 1,022,685; Apr. 9; Sp. p. 1981; Gaz. vol. 177; p. 343.
Cabinet, Grocer's. V. Norrlander. No. 1,029,709; June 18; Sp. p. 3575; Gaz. vol. 179; p. 631.
Cabinet, Grocery-. W. F. and T. H. Farley. No. 1,030,172; June 18; Sp. p. 4561; Gaz. vol. 179; p. 788.
Cabinet, Kitchen-. J. Long. No. 1,014,831; Jan. 16; Sp. p. 3887; Gaz. vol. 174; p. 659.
Cabinet, Lace-. W. J. Dunlap. No. 1,035,429; Aug. 13; Gaz. vol. 181; p. 379.
Cabinet, Laundry-. J. B. Brochu. No. 1,029,585; June 18; Sp. p. 3280; Gaz. vol. 179; p. 584.
Cabinet, Multicompartment. G. Robbins. No. 1,013,444; Jan. 2; Sp. p. 777; Gaz. vol. 174; p. 124.
Cabinet, Multicompartment. G. Robbins. No. 1,035,641; Aug. 13; Gaz. vol. 181; p. 450.
Cabinet, Nursery-. A. V. Cassity. No. 1,027,816; May 28; Sp. p. 5954; Gaz. vol. 178; p. 1033.
Cabinet or holder for disk records and the like. E. F. Pooley. No. 1,014,172; Jan. 9; Sp. p. 2397; Gaz. vol. 174; p. 402.
Cabinet or shelving, Knockdown extensible. R. H. Browne. No. 1,030,279; June 25; Sp. p. 4832; Gaz. vol. 179; p. 864.
Cabinet, Portable. A. H. Schaffert. No. 1,047,843; Dec. 17; Gaz. vol. 185; p. 783.
Cabinet, Record-holding. A. Baecker. No. 1,030,376; June 25; Sp. p. 5048; Gaz. vol. 179; p. 900.
Cabinet, Rotary kitchen-. J. W. Gurnee. No. 1,044,882; Nov. 19; Gaz. vol. 184; p. 701.
Cabinet, Rubber-stamp. C. C. Gibson. No. 1,032,399; July 16; Gaz. vol. 180; p. 620.
Cabinet, Rubber-stamp. C. C. Gibson. No. 1,038,742; Sept. 17; Gaz. vol. 182; p. 598.
Cabinet, Stationery-. T. A. Matthews. No. 1,028,091; May 28; Sp. p. 6603; Gaz. vol. 178; p. 1124.
Cabinet, Stationery-distributing. R. Neddo. No. 1,044,804; Nov. 19; Gaz. vol. 184; p. 675.
Cabinet, Theatrical schedule and advertising-. T. W. Mullaly. No. 1,038,416; Sept. 10; Gaz. vol. 182; p. 450.
Cabinet, Ticket-. R. H. Pauley. No. 1,046,488; Dec. 10; Gaz. vol. 185; p. 278.
Cabinet, Ticket and label. C. W. De Laney. No. 1,029,346; June 11; Sp. p. 2780; Gaz. vol. 179; p. 468.
Cabinet, Toilet-paper. J. W. Whittier. No. 1,015,526; Jan. 23; Sp. p. 5373; Gaz. vol. 174; p. 921.
Cabinet, Toilet-paper. W. E. Swift. No. 1,038,458; Sept. 10; Gaz. vol. 182; p. 466.
Cabinet, Towel-. L. S. Shank. No. 1,018,011; Feb. 20; Sp. p. 3954; Gaz. vol. 175; p. 684.
Cabinet, Wrapping-paper. G. A. Wilkinson and A. E. Osborn. No. 1,039,344; Sept. 24; Gaz. vol. 182; p. 821.
Cabinets, Attachment for kitchen-. F. E. P'Pool. No. 1,023,593; Apr. 16; Sp. p. 3912; Gaz. vol. 177; p. 688.
Cabinets, Fastening device for panel-board. F. B. Adam. No. 1,027,397; May 28; Sp. p. 5101; Gaz. vol. 178; p. 895.
Cable and wire cutter. W. J. Sheehan and J. H. Gilbertson. No. 1,018,274; Feb. 20; Sp. p. 4513; Gaz. vol. 175; p. 776.
Cable-armor joint. W. P. Traver and L. F. Theis. No. 1,035,499; Aug. 13; Gaz. vol. 181; p. 402.
Cable carrier. W. H. Jessup. No. 1,033,902; July 30; Gaz. vol. 180; p. 1191.
Cable carrier. H. T. Fernald. No. 1,044,875; Nov. 19; Gaz. vol. 184; p. 698.
Cable-carrier-locking device. H. T. Fernald. No. 1,028,699; June 4; Sp. p. 1350; Gaz. vol. 179; p. 210.
Cable-clamp. W. H. Hargrave. No. 1,036,227; Aug. 20; Gaz. vol. 181; p. 690.

Alphabetical list of inventions—Continued.

Cable-clamp. J. H. Kliegl. No. 1,041,300; Oct. 15; Gaz. vol. 183; p. 617.
Cable-clamp. W. E. Reeves. No. 1,046,330; Dec. 3; Gaz. vol. 185; p. 185.
Cable clip or hanger. C. G. Davidson. No. 1,020,130; Mar. 12; Sp. p. 2397; Gaz. vol. 176; p. 409.
Cable-cutting device. H. C. Smith. No. 1,027,918; May 28; Sp. p. 6227; Gaz. vol. 178; p. 1069.
Cable duplex repeating system. I. Kitsee. No. 1,014,488; Jan. 9; Sp. p. 3077; Gaz. vol. 174; p. 511.
Cable, Electric. V. P. von Pindtershofen. No. 1,037,522; Sept. 3; Gaz. vol. 182; p. 117.
Cable excavator, Slack-. A. D. Hadsel. No. 1,045,973; Dec. 3; Gaz. vol. 185; p. 61.
Cable for the transmission of mechanical movements. N. Herzmark. No. 1,049,233; Dec. 31; Gaz. vol. 185; p. 1322.
Cable-hanger. J. Davis. No. 1,022,226; Apr. 2; Sp. p. 1008; Gaz. vol. 177; p. 161.
Cable or the like applicable to the formation of blocks on such cable, Apparatus for opening out multiple-wire. A. Doxford. No. 1,039,368; Sept. 24; Gaz. vol. 182; p. 829.
Cable-releasing device. W. Ball. No. 1,016,386; Feb. 6; Sp. p. 331; Gaz. vol. 175; p. 53.
Cable-stretcher for ballast-unloaders. W. H. Yawger. No. 1,018,800; Feb. 27; Sp. p. 5714; Gaz. vol. 175; p. 987.
Cable-support. T. A. Dissel. No. 1,020,969; Mar. 26; Sp. p. 4184; Gaz. vol. 176; p. 778.
Cable-support. O. W. Brenizer. No. 1,030,969; July 2; Gaz. vol. 180; p. 41.
Cable suspension. M. Morey. No. 1,025,098; Apr. 30; Sp. p. 7202; Gaz. vol. 177; p. 1261.
Cable-terminal structure. S. P. Grace. No. 1,045,697; Nov. 26; Gaz. vol. 184; p. 1016.
Cable, Waterproof. H. W. Fisher. No. 1,037,883; Sept. 10; Gaz. vol. 182; p. 269.
Cable, wire, &c., stretcher. F. J. Aster and A. W. Malone. No. 1,048,928; Dec. 31; Gaz. vol. 185; p. 1219.
Cables, Device for applying lubricant or filler to. H. P. Thomas. No. 1,049,170; Dec. 31; Gaz. vol. 185; p. 1300.
Cables, &c., Holder for flexible metal-sheathed wire. J. P. Holloway. No. 1,033,894; July 30; Gaz. vol. 180; p. 1188.
Cables, Manufacturing. C. A. Parsons, J. H. Greaves, and A. R. Hemsted. No. 1,030,426; June 25; Sp. p. 5157; Gaz. vol. 179; p. 918.
Cables, Splice between Manila and wire. G. H. and W. H. Klingler. No. 1,026,869; May 21; Sp. p. 3903; Gaz. vol. 178; p. 674.
Cables through pipe-lines, Device for passing. B. B. Hodgman. No. 1,033,587; July 23; Gaz. vol. 180; p. 1059.
Cables through pipe-lines, Device for passing. O. B. Mueller. No. 1,035,994; Aug. 20; Gaz. vol. 181; p. 605.
Cableway. T. S. Miller. No. 1,033,436; July 23; Gaz. vol. 180; p. 1009.
Cableway and the like. W. O. V. Wieprecht. No. 1,044,321; Nov. 12; Gaz. vol. 184; p. 476.
Cableway arrangement for dumping-mounds or the like. W. Weihe. No. 1,023,536; Apr. 16; Sp. p. 3783; Gaz. vol. 177; p. 669.
Cableway button-stop. T. S. Miller. No. 1,031,360; July 2; Gaz. vol. 180; p. 179.
Cableway logging apparatus. J. H. Dickinson. No. 1,024,833; Apr. 30; Sp. p. 6662; Gaz. vol. 177; p. 1172.
Cableway, Marine. T. S. Miller. No. 1,028,897; June 11; Sp. p. 1801; Gaz. vol. 179; p. 314.
Cage, Roller-. G. H. Carpenter. No. 1,018,694; Feb. 27; Sp. p. 5479; Gaz. vol. 175; p. 950.
Cage rotor, Squirrel-. B. McCollum. No. 1,044,217; Nov. 12; Gaz. vol. 184; p. 440.
Cager and sump-guard. G. Holmes. No. 1,031,714; July 9; Gaz. vol. 180; p. 343.
Caisson. O. C. Edwards, Jr. No. 1,013,870; Jan. 9; Sp. p. 1738; Gaz. vol. 174; p. 300.
Caisson. O. C. Edwards, Jr. No. 1,014,626; Jan. 9; Sp. p. 3372; Gaz. vol. 174; p. 558.
Caisson. O. C. Edwards, Jr. No. 1,023,825; Apr. 23; Sp. p. 4383; Gaz. vol. 177; p. 789.
Caisson. O. C. Edwards, Jr. No. 1,025,614; May 7; Sp. p. 1131; Gaz. vol. 178; p. 176.
Caisson. R. H. Chambers. No. 1,026,656; May 21; Sp. p. 3451; Gaz. vol. 178; p. 602.
Caisson construction. E. Bignell. No. 1,024,821; Apr. 30; Sp. p. 6636; Gaz. vol. 177; p. 1168.
Caisson of ferroconcrete, Pneumatic. S. Rechniewski. No. 1,014,721; Jan. 16; Sp. p. 3633; Gaz. vol. 174; p. 621.
Caisson, Self-sinking. E. Bignell. No. 1,024,823; Apr. 30; Sp. p. 6641; Gaz. vol. 177; p. 1169.
Caissons and building piers, walls, &c., Sinking joint-. D. E. Moran. No. 1,036,681; Aug. 27; Gaz. vol. 181; p. 877.
Cake and making same, Edible. W. W. De Bevoise. No. 1,020,481; Mar. 19; Sp. p. 3119; Gaz. vol. 176; p. 562.
Cake-coating machine. P. D. Harton. No. 1,036,107; Aug. 20; Gaz. vol. 181; p. 645.
Cake icing or coating machine. P. D. Harton. No. 1,036,108; Aug. 20; Gaz. vol. 181; p. 646.
Cake-mixer. C. Schenk. No. 1,014,909; Jan. 16; Sp. p. 4057; Gaz. vol. 174; p. 686.
Cake-mixer. H. Kyle. No. 1,019,055; Mar. 5; Sp. p. 91; Gaz. vol. 176; p. 18.
Cake-mixer and egg-beater, Combined. M. T. Hudson. No. 1,026,355; May 14; Sp. p. 2802; Gaz. vol. 178; p. 465.
Cake-pan. E. Jones. No. 1,032,680; July 16; Gaz. vol. 180; p. 717.
Cake-turner. E. M. Harper. No. 1,029,060; June 11; Sp. p. 2149; Gaz. vol. 179; p. 370.
Cakes, Means of wrapping and packing. F. O. Stone. No. 1,017,337; Feb. 13; Sp. p. 2452; Gaz. vol. 175; p. 417.
Calcimine, Making. L. W. Collister. No. 1,021,136; Mar. 26; Sp. p. 4518; Gaz. vol. 176; p. 833.
Calcium carbid, Subdividing crystalline. J. M. Morehead, G. E. Cox, and J. G. Marshall. No. 1,036,525; Aug. 20; Gaz. vol. 181; p. 793.
Calcium cyanamid from calcium carbid, Process of and apparatus for making. F. S. Washburn. No. 1,015,720; Jan. 23; Sp. p. 5798; Gaz. vol. 174; p. 988.
Calcium cyanamid, Producing. A. Bonnington and H. G. Akers. No. 1,021,445; Mar. 26; Sp. p. 5199; Gaz. vol. 176; p. 941.
Calcium phosphamid, Producing. S. Peacock. No. 1,047,440; Dec. 17; Gaz. vol. 185; p. 640.
Calculating apparatus. A. B. Bly. No. 1,032,322; July 9; Gaz. vol. 180; p. 550.
Calculating apparatus. W. H. Sleight. No. 1,039,455; Sept. 24; Gaz. vol. 182; p. 859.
Calculating apparatus for type-writers, &c. H. L. Pitman. No. 1,045,434; Nov. 26; Gaz. vol. 184; p. 920.
Calculating device, Interest-. J. J. Fitzgerald. No. 1,039,373; Sept. 24; Gaz. vol. 182; p. 831.
Calculating device, Roof-rafter-. D. Robertson and J. A. Atkinson. No. 1,027,766; May 28; Sp. p. 5835; Gaz. vol. 178; p. 1016.
Calculating device, Tax-. G. W. Goss. No. 1,024,071; Apr. 23; Sp. p. 4927; Gaz. vol. 177; p. 873.
Calculating instrument. C. A. Bishop. No. 1,039,245; Sept. 24; Gaz. vol. 182; p. 787.
Calculating instrument. W. W. Craig. No. 1,048,044; Dec. 24; Gaz. vol. 185; p. 878.
Calculating-machine. H. Daemen-Schmid. No. 1,015,842; Jan. 30; Sp. p. 6050; Gaz. vol. 174; p. 1056.
Calculating-machine. N. R. Long. No. 1,016,572; Feb. 6; Sp. p. 793; Gaz. vol. 175; p. 118.
Calculating-machine. A. S. McCaskey. No. 1,018,510; Feb. 27; Sp. p. 5050; Gaz. vol. 175; p. 888.
Calculating-machine. I. D. Siegfried. No. 1,019,996; Mar. 12; Sp. p. 2111; Gaz. vol. 176; p. 364.
Calculating-machine. W. R. Heinitz. No. 1,020,200; Mar. 12; Sp. p. 2552; Gaz. vol. 176; p. 433.
Calculating-machine. F. Trinks. No. 1,022,280; Apr. 2; Sp. p. 1102; Gaz. vol. 177; p. 177.
Calculating-machine. G. J. Barrett. No. 1,023,235; Apr. 16; Sp. p. 3193; Gaz. vol. 177; p. 571.
Calculating-machine. G. W. Goss. No. 1,024,072; Apr. 23; Sp. p. 4929; Gaz. vol. 177; p. 873.
Calculating-machine. H. Hopkins. No. 1,026,443; May 14; Sp. p. 2983; Gaz. vol. 178; p. 494.
Calculating-machine. N. Stafford. No. 1,026,473; May 14; Sp. p. 3052; Gaz. vol. 178; p. 503.
Calculating-machine. H. C. Peters. No. 1,028,133; June 4; Sp. p. 90; Gaz. vol. 179; p. 18.
Calculating-machine. R. Rein. No. 1,028,135; June 4; Sp. p. 121; Gaz. vol. 179; p. 18.
Calculating-machine. D. E. Felt. No. 1,028,344; June 4; Sp. p. 609; Gaz. vol. 179; p. 92.
Calculating-machine. H. E. Goldberg. No. 1,029,678; June 18; Sp. p. 3490; Gaz. vol. 179; p. 618.
Calculating-machine. J. T. Howieson. No. 1,030,470; June 25; Sp. p. 5247; Gaz. vol. 179; p. 934.
Calculating-machine. R. E. Wageley. No. 1,030,975; July 2; Gaz. vol. 180; p. 43.
Calculating-machine. W. P. Quentell and F. Judge. No. 1,031,371; July 2; Gaz. vol. 180; p. 183.
Calculating-machine. W. W. Hopkins. No. 1,032,678; July 16; Gaz. vol. 180; p. 716.
Calculating-machine. T. I. Potter. No. 1,035,101; Aug. 6; Gaz. vol. 181; p. 234.
Calculating-machine. G. W. Goss. No. 1,038,350; Sept. 10; Gaz. vol. 182; p. 426.
Calculating-machine. F. Trinks and C. Schaller. No. 1,038,464; Sept. 10; Gaz. vol. 182; p. 468.
Calculating-machine. F. A. Hopkins. No. 1,038,890; Sept. 17; Gaz. vol. 182; p. 650.
Calculating-machine. F. Trinks. No. 1,039,614; Sept. 24; Gaz. vol. 182; p. 915.
Calculating-machine. F. Trinks. No. 1,040,059; Oct. 1; Gaz. vol. 183; p. 129.
Calculating-machine. R. Janney. No. 1,044,184; Nov. 12; Gaz. vol. 184; p. 428.
Calculating-machine. I. Pletnik. No. 1,044,240; Nov. 12; Gaz. vol. 184; p. 448.
Calculating-machine. H. Cordt. No. 1,047,391; Dec. 17; Gaz. vol. 185; p. 623.
Calculating-machine key mechanism. H. W. Clement. No. 1,044,020; Nov. 12; Gaz. vol. 184; p. 373.
Calculating-machine motor-drive. H. Hopkins. No. 1,025,698; May 7; Sp. p. 1305; Gaz. vol. 178; p. 203.

Alphabetical list of inventions—Continued.

Calculating-machine with key-moving device, Thomas. B. C. M. Behr. No. 1,034,756; Aug. 6; Gaz. vol. 181; p. 119.
Calculating-machine with printing device. B. Behr. No. 1,041,576; Oct. 15; Gaz. vol. 183; p. 706.
Calculating-machines, Device for adjusting slides in. B. Behr. No. 1,013,981; Jan. 9; Sp. p. 1999; Gaz. vol. 174; p. 338.
Calculating-machines, Key mechanism for. J. Graber. No. 1,023,841; Apr. 23; Sp. p. 4425; Gaz. vol. 177; p. 795.
Calculating-machines, Means for the transmission of tens in Thomas. B. Behr. No. 1,041,231; Oct. 15; Gaz. vol. 183; p. 592.
Calculating-machines, Motor-drive for. O. Thieme. No. 1,047,856; Dec. 17; Gaz. vol. 185; p. 787.
Calculating-machines, Motor-key lock for. O. Thieme. No. 1,029,957; June 18; Sp. p. 4129; Gaz. vol. 179; p. 715.
Calculating-machines, Transfer mechanism for. G. J. Barrett. No. 1,017,843; Feb. 20; Sp. p. 3564; Gaz. vol. 175; p. 625.
Calculating-machines, Transfer mechanism for. J. Graber. No. 1,023,839; Apr. 23; Sp. p. 4422; Gaz. vol. 177; p. 794.
Calculating-machines, Transfer mechanism for. J. Graber. No. 1,023,840; Apr. 23; Sp. p. 4423; Gaz. vol. 177; p. 794.
Calculator. E. C. Walter. No. 1,013,243; Jan. 2; Sp. p. 334; Gaz. vol. 174; p. 53.
Calculator. C. J. Smith and P. Kleeberg. No. 1,017,182; Feb. 13; Sp. p. 2118; Gaz. vol. 175; p. 363.
Calculator. W. E and E. E. Thompson. No. 1,025,334; May 7; Sp. p. 504; Gaz. vol. 178; p. 79.
Calculator. W. Rice. No. 1,026,123; May 14; Sp. p. 2286; Gaz. vol. 178; p. 386.
Calculator. H. A. Mensing. No. 1,039,775; Oct. 1; Gaz. vol. 183; p. 36.
Calculator. F. S. Beckett. No. 1,042,755; Oct. 29; Gaz. vol. 183; p. 1174.
Calculator, Fare-. H. P. C. Browne. No. 1,015,419; Jan. 23; Sp. p. 5148; Gaz. vol. 174; p. 884.
Calculator, Mechanical. F. E. Webner. No. 1,026,064; May 14; Sp. p. 2138; Gaz. vol. 178; p. 364.
Calculator or register. S. E. Carlin. No. 1,033,303; July 23; Gaz. vol. 180; p. 966.
Calculator, Paymaster's. H. A. Beals and M. J. Stark, Jr. No. 1,018,028; Feb. 20; Sp. p. 3990; Gaz. vol. 175; p. 690.
Calendar. F. P. Gorin. No. 1,042,337; Oct. 22; Gaz. vol. 183; p. 999.
Calendar. S. K. Jensik. No. 1,048,413; Dec. 24; Gaz. vol. 185; p. 1001.
Calendar bail, Memorandum-. A. K. Dutton. No. 1,034,221; July 30; Gaz. vol. 180; p. 1303.
Calendar, Daily appointment-. C. W. Strayer. No. 1,018,641; Feb. 27; Sp. p. 5381; Gaz. vol. 175; p. 932.
Calendar, Memorandum-pad. F. A. Weeks. No. 1,041,923; Oct. 22; Gaz. vol. 183; p. 863.
Calendar pad and holder. J. C. Stevens. No. 1,036,741; Aug. 27; Gaz. vol. 181; p. 896.
Calendar-pad holder. P. H. Yawman. No. 1,034,670; Aug. 6; Gaz. vol. 181; p. 89.
Calendar, Perpetual. N. Singh. No. 1,016,370; Feb. 6; Sp. p. 291; Gaz. vol. 175; p. 46.
Calendar, Perpetual. J. J. O'Brien. No. 1,029,455; June 11; Sp. p. 3020; Gaz. vol. 179; p. 505.
Calendar-support. C. H. Payne. No. 1,023,329; Apr. 16; Sp. p. 3387; Gaz. vol. 177; p. 604.
Calendars, Standard for desk-. F. A. Hale. No. 1,046,181; Dec. 3; Gaz. vol. 185; p. 131.
Calender for dyeing, starching, and mercerizing machines. L. Haas. No. 1,023,734; Apr. 16; Sp. p. 4162; Gaz. vol. 177; p. 731.
Caliper attachment. W. M. Mahoney. No. 1,015,813; Jan. 30; Sp. p. 5987; Gaz. vol. 174; p. 1047.
Calipers. N. Helwig. No. 1,034,795; Aug. 6; Gaz. vol. 181; p. 133.
Calipers and protractor, Combined. V. Constantinescu. No. 1,039,901; Oct. 1; Gaz. vol. 183; p. 78.
Calipers, Micrometer-. F. O. Jaques, Sr. No. 1,021,680; Mar. 26; Sp. p. 5655; Gaz. vol. 176; p. 1017.
Calk-machine. J. Reckenthaler. No. 1,032,703; July 16; Gaz. vol. 180; p. 725.
Calk-plates and carrier, Combined. G. S. Meyer. No. 1,037,163; Aug. 27; Gaz. vol. 181; p. 1038.
Calking device. D. A. Osgood. No. 1,035,632; Aug. 13; Gaz. vol. 181; p. 447.
Call-box. J. G. Nolen. No. 1,025,713; May 7; Sp. p. 1335; Gaz. vol. 178; p. 208.
Call for ducks. J. L. McCluskey. No. 1,043,123; Nov. 5; Gaz. vol. 184; p. 26.
Caloric engine. J. N. Ruffin. No. 1,035,474; Aug. 13; Gaz. vol. 181; p. 394.
Caloric engine. L. Kessler. No. 1,044,536; Nov. 19; Gaz. vol. 184; p. 580.
Camera. W. F. Folmer. No. 1,023,931; Apr. 23; Sp. p. 4641; Gaz. vol. 177; p. 825.
Camera. G. W. Curtiss. No. 1,044,028; Nov. 12; Gaz. vol. 184; p. 376.
Camera and projection-machine, Moving-picture. V. L. Duhem. No. 1,039,501; Sept. 24; Gaz. vol. 182; p. 876.
Camera attachment. C. C. Lamb. No. 1,037,334; Sept. 10; Gaz. vol. 182; p. 288.
Camera-back. A. A. Ruttan and C. E. Hutchings. No. 1,024,747; Apr. 30; Sp. p. 6485; Gaz. vol. 177; p. 1114.
Camera-backs, Securing device for. A. A. Ruttan and C. E. Hutchings. No. 1,030,433; June 25; Sp. p. 5177; Gaz. vol. 179; p. 921.
Camera-case, Folding. S. H. Peterson. No. 1,042,963; Oct. 29; Gaz. vol. 183; p. 1244.
Camera, Demonstrating-. H. L. Finzel. No. 1,019,622; Mar. 5; Sp. p. 1363; Gaz. vol. 176; p. 208.
Camera, Developing-. S. D. Hajjar. No. 1,031,786; July 9; Gaz. vol. 180; p. 367.
Camera film attachment. A. M. Vale. No. 1,036,385; Aug. 20; Gaz. vol. 181; p. 745.
Camera film-feeding mechanism. E. A. Caldwell. No. 1,034,870; Aug. 6; Gaz. vol. 181; p. 158.
Camera, Folding. A. L. Adams. No. 1,036,406; Aug. 20; Gaz. vol. 181; p. 752.
Camera indicating and swivel support. E. J. Williams. No. 1,028,167; June 4; Sp. p. 254; Gaz. vol. 179; p. 31.
Camera, Knockdown enlarging-. H. Burke and W. A. Peters. No. 1,036,557; Aug. 27; Gaz. vol. 181; p. 836.
Camera, Magazine-. T. Zabrocki. No. 1,032,098; July 9; Gaz. vol. 180; p. 473.
Camera magazine plate-holder. J. P. Shukis. No. 1,033,834; July 30; Gaz. vol. 180; p. 1166.
Camera multiplying-back. W. F. Folmer. No. 1,045,539; Nov. 26; Gaz. vol. 184; p. 960.
Camera, Photographic. W. F. Folmer. No. 1,023,930; Apr. 23; Sp. p. 4636; Gaz. vol. 177; p. 825.
Camera, Photographic. W. F. Folmer. No. 1,023,932; Apr. 23; Sp. p. 4646; Gaz. vol. 177; p. 826.
Camera, Photographic. C. E. Hutchings. No. 1,024,200; Apr. 23; Sp. p. 5246; Gaz. vol. 177; p. 919.
Camera, Photographic. C. Bornmann. No. 1,029,268; June 11; Sp. p. 2589; Gaz. vol. 179; p. 440.
Camera, Photographic. C. Bornmann. No. 1,029,269; June 11; Sp. p. 2591; Gaz. vol. 179; p. 440.
Camera, Photographic. C. Bornmann. No. 1,029,270; June 11; Sp. p. 2592; Gaz. vol. 179; p. 441.
Camera, Photographic. C. Bornmann. No. 1,033,523; July 23; Gaz. vol. 180; p. 1037.
Camera, Photographic. C. Bornmann. No. 1,033,525; July 23; Gaz. vol. 180; p. 1038.
Camera, Photographic. G. W. Topliff and C. Bornmann. No. 1,034,045; July 30; Gaz. vol. 180; p. 1242.
Camera, Photographic. C. Bornmann and G. W. Topliff. No. 1,037,721; Sept. 3; Gaz. vol. 182; p. 183.
Camera, Photographic. C. Bornmann. No. 1,037,722; Sept. 3; Gaz. vol. 182; p. 183.
Camera, Photographic. C. Bornmann. No. 1,039,088; Sept. 24; Gaz. vol. 182; p. 730.
Camera pin-journal, Photographic-. C. Bornmann. No. 1,029,267; June 11; Sp. p. 2587; Gaz. vol. 179; p. 440.
Camera-shutter-operating device. B. Januszewski. No. 1,045,149; Nov. 26; Gaz. vol. 184; p. 821.
Camera shutter, Photographic-. G. J. Dickson. No. 1,047,508; Dec. 17; Gaz. vol. 185; p. 665.
Camera-shutters, Timing attachment for. E. D. Watson. No. 1,013,525; Jan. 2; Sp. p. 949; Gaz. vol. 174; p. 152.
Camera-shutters, Tripping mechanism for. H. H. McAnelly. No. 1,043,951; Nov. 12; Gaz. vol. 184; p. 350.
Camera-stand. C. C. Lamb. No. 1,032,614; July 16; Gaz. vol. 180; p. 692.
Camera, Stereoscopic. J. Richard. No. 1,013,815; Jan. 2; Sp. p. 1579; Gaz. vol. 174; p. 252.
Camera winding-key, Photographic-. C. Bornmann. No. 1,029,266; June 11; Sp. p. 2586; Gaz. vol. 179; p. 440.
Cameras, Diaphragm-operating attachment for. J. P. Shukis. No. 1,018,635; Feb. 27; Sp. p. 5360; Gaz. vol. 175; p. 930.
Cameras, Film-winding key for. W. F. Folmer. No. 1,023,933; Apr. 23; Sp. p. 4648; Gaz. vol. 177; p. 826.
Cameras, Pin-journal for photographic. C. Bornmann. No. 1,040,130; Oct. 1; Gaz. vol. 183; p. 154.
Cameras, Roll-holder for photographic. W. A. Peters. No. 1,031,023; July 2; Gaz. vol. 180; p. 61.
Camper's kit or outfit. W. H. Wesson. No. 1,034,377; July 30; Gaz. vol. 180; p. 1358.
Camper's outfit. R. Schwarzenbach. No. 1,031,821; July 9; Gaz. vol. 180; p. 380.
Camphene, Manufacturing. J. Schmitz and G. Stalmann. No. 1,030,334; June 25; Sp. p. 4966; Gaz. vol. 179; p. 885.
Can: *See* Ash-can; Cracker-can; Dispensing-can; Display and icing can; Filtering-can; Fish-can; Friction-top can; Garbage-can; Glass-lined can; Heat-insulated can; Ice-can; Ice-cream-storage can; Key-opening can; Milk-can; Oil-can; Paint-can; Roll-top can; Sardine-can; Sheet-metal can; Sugar-can.
Can. W. Parry. No. 1,024,018; Apr. 23; Sp. p. 4808; Gaz. vol. 177; p. 854.
Can. G. Russell. No. 1,024,702; Apr. 30; Sp. p. 6388; Gaz. vol. 177; p. 1126.
Can. C. H. Campbell. No. 1,029,665; June 18; Sp. p. 3454; Gaz. vol. 179; p. 613.
Can. J. B. Platt. No. 1,035,634; Aug. 13; Gaz. vol. 181; p. 447.
Can. W. F. Hellberg. No. 1,037,620; Sept. 3; Gaz. vol. 182; p. 148.

Alphabetical list of inventions—Continued.

Can and bottle top. T. Febert. No. 1,020,487; Mar. 19; Sp. p. 3128; Gaz. vol. 176; p. 564.
Can and box covers, Means for facilitating the removal of. S. M. and G. N. Hamblin. No. 1,039,934; Oct. 1; Gaz. vol. 183; p. 88.
Can attachment. T. C. Doredant. No. 1,013,750; Jan. 2; Sp. p. 1459; Gaz. vol. 174; p. 230.
Can attachment, Oil-. S. J. Nagel. No. 1,017,899; Feb. 20; Sp. p. 3719; Gaz. vol. 175; p. 647.
Can attachment, Tobacco-. O. Bjelland. No. 1,045,366; Nov. 26; Gaz. vol. 184; p. 897.
Can-body blanks, Feed mechanism for. J. W. Dixon. No. 1,031,251; July 2; Gaz. vol. 180; p. 143.
Can-body blanks, Notching mechanism for. C. W. Graham. No. 1,020,550; Mar. 19; Sp. p. 3271; Gaz. vol. 176; p. 585.
Can-body flanging and double-seaming machine, Combined. A. Johnson. No. 1,040,951; Oct. 8; Gaz. vol. 183; p. 464.
Can-body forming and seaming machine. L. C. Sharp. No. 1,017,815; Feb. 20; Sp. p. 3498; Gaz. vol. 175; p. 615.
Can-body-making machine. J. Brenzinger. (Reissue.) No. 13,487; Nov. 19; Gaz. vol. 184; p. 781.
Can-body-making machine. P. Kruse. No. 1,046,088; Dec. 3; Gaz. vol. 185; p. 99.
Can-cap feeding and placing machine. F. H. and F. R. Flounders. No. 1,047,026; Dec. 10; Gaz. vol. 185; p. 463.
Can-cap lacquering or coating machine. C. S. Bucklin. No. 1,013,858; Jan. 9; Sp. p. 1711; Gaz. vol. 174; p. 296.
Can capping and double-seaming machine. H. L. Guenther. No. 1,049,227; Dec. 31; Gaz. vol. 185; p. 1320.
Can-capping machine. F. L. Jefferies and W. Spain. No. 1,015,320; Jan. 23; Sp. p. 4918; Gaz. vol. 174; p. 852.
Can-capping machine and feeding device thereto adapted. B. E. Taylor. No. 1,029,326; June 11; Sp. p. 2726; Gaz. vol. 179; p. 461.
Can-carrier. C. H. Cronk. No. 1,018,696; Feb. 27; Sp. p. 5482; Gaz. vol. 175; p. 950.
Can-cleaning apparatus. F. D. Cleveland. No. 1,026,381; May 14; Sp. p. 2859; Gaz. vol. 178; p. 474.
Can-closing appliance. P. A. Rook. No. 1,037,541; Sept. 3; Gaz. vol. 182; p. 123.
Can-closure. C. H. Campbell. No. 1,035,686; Aug. 13; Gaz. vol. 181; p. 465.
Can-cover. A. H. Landwehr. No. 1,029,617; June 18; Sp. p. 3360; Gaz. vol. 179; p. 597.
Can cover, Ash-. E. M. Coryell. No. 1,046,377; Dec. 3; Gaz. vol. 185; p. 201.
Can cover, Garbage-. W. A. Austin. No. 1,036,777; Aug. 27; Gaz. vol. 181; p. 908.
Can cover, Garbage-. W. T. Kirkman. No. 1,043,774; Nov. 5; Gaz. vol. 184; p. 255.
Can-cover loosener. O. E. Enell. No. 1,027,113; May 21; Sp. p. 4518; Gaz. vol. 178; p. 761.
Can cover, Milk-. G. C. Hall. No. 1,033,009; July 16; Gaz. vol. 180; p. 826.
Can cover, Sardine-. G. W. Weber. No. 1,030,359; June 25; Sp. p. 5016; Gaz. vol. 179; p. 894.
Can-end-flanging mechanism. A. Johnson. No. 1,040,953; Oct. 8; Gaz. vol. 183; p. 464.
Can-ending machine. F. J. Smith. No. 1,034,153; July 30; Gaz. vol. 180; p. 1279.
Can-filler. C. E. Edgar. No. 1,025,383; May 7; Sp. p. 620; Gaz. vol. 178; p. 96.
Can-filling apparatus. W. J. Phelps. No. 1,025,717; May 7; Sp. p. 1346; Gaz. vol. 178; p. 209.
Can-filling apparatus. W. J. Phelps. No. 1,032,768; July 16; Gaz. vol. 180; p. 747.
Can-filling apparatus. W. J. Phelps. No. 1,034,503; Aug. 6; Gaz. vol. 181; p. 35.
Can-filling machine. J. P. Haight. No. 1,029,681; June 18; Sp. p. 3495; Gaz. vol. 179; p. 619.
Can-filling machine. E. P. Holden. No. 1,036,846; Aug. 27; Gaz. vol. 181; p. 932.
Can-filling machine. E. B. Gage. No. 1,038,557; Sept. 17; Gaz. vol. 182; p. 533.
Can-filling machine. J. H. and F. W. Burpee. No. 1,039,360; Sept. 24; Gaz. vol. 182; p. 826.
Can-flanging machine. W. F. Butler. No. 1,022,464; Apr. 9; Sp. p. 1505; Gaz. vol. 177; p. 270.
Can forming and trimming machine. D. Malde. No. 1,035,984; Aug. 20; Gaz. vol. 181; p. 602.
Can-head lining and rolling machine. H. L. Guenther. No. 1,046,291; Dec. 3; Gaz. vol. 185; p. 171.
Can-head-lining machine. J. A. Gray. No. 1,043,005; Oct. 29; Gaz. vol. 183; p. 1260.
Can-heads or other articles, Automatic feed device for. F. Wegner and J. Peters. No. 1,013,344; Jan. 2; Sp. p. 571; Gaz. vol. 174; p. 90.
Can-heading machine. F. Wegner. No. 1,025,173; May 7; Sp. p. 141; Gaz. vol. 178; p. 24.
Can holder, Oil-. I. R. Johnson. No. 1,018,567; Feb. 27; Sp. p. 5229; Gaz. vol. 175; p. 909.
Can holder, Oil-. F. W. Buffum. No. 1,021,037; Mar. 26; Sp. p. 4313; Gaz. vol. 176; p. 801.
Can holder, Oil-. A. Hutton. No. 1,026,396; May 14; Sp. p. 2883; Gaz. vol. 178; p. 478.
Can-indicating device. C. A. Hertenstein and W. F. Probst. No. 1,040,675; Oct. 8; Gaz. vol. 183; p. 375.
Can-lacquering machine. A. Y. Seely. No. 1,021,074; Mar. 26; Sp. p. 4386; Gaz. vol. 176; p. 814.
Can-lid fastener, Milk-. A. C. Echard and J. A. Hutchison. No. 1,046,569; Dec. 10; Gaz. vol. 185; p. 308.
Can lifter, Ice-. I. J. Vest. No. 1,036,755; Aug. 27; Gaz. vol. 181; p. 901.
Can-lining. T. Domoto. No. 1,020,134; Mar. 12; Sp. p. 2403; Gaz. vol. 176; p. 410.
Can-lock. C. H. Campbell. No. 1,029,666; June 18; Sp. p. 3456; Gaz. vol. 179; p. 614.
Can lock, Milk-. P. O. Ketler. No. 1,019,052; Mar. 5; Sp. p. 87; Gaz. vol. 176; p. 17.
Can-making machine. C. W. Sleeper. No. 1,019,376; Mar. 5; Sp. p. 870; Gaz. vol. 176; p. 128.
Can-making machinery. J. M. Henry. No. 1,041,787; Oct. 22; Gaz. vol. 183; p. 816.
Can-manipulating machine. B. Hausheer. No. 1,030,300; June 25; Sp. p. 4869; Gaz. vol. 179; p. 871.
Can-nozzle. E. Norton and B. H. Larkin. No. 1,017,451; Feb. 13; Sp. p. 2717; Gaz. vol. 175; p. 457.
Can nozzle, Oil and other. S. Caruso. No. 1,025,052; Apr. 30; Sp. p. 7092; Gaz. vol. 177; p. 1247.
Can-opener. M. P. Newcomb. No. 1,016,513; Feb. 6; Sp. p. 647; Gaz. vol. 175; p. 97.
Can-opener. J. A. Polakovich. No. 1,018,266; Feb. 20; Sp. p. 4500; Gaz. vol. 175; p. 773.
Can-opener. W. Schwab. No. 1,020,954; Mar. 19; Sp. p. 4138; Gaz. vol. 176; p. 721.
Can-opener. T. H. Russell. No. 1,021,801; Apr. 2; Sp. p. 99; Gaz. vol. 177; p. 19.
Can-opener. W. P. Gisske. No. 1,023,838; Apr. 23; Sp. p. 4420; Gaz. vol. 177; p. 794.
Can-opener. E. Wölfer. No. 1,024,543; Apr. 30; Sp. p. 6021; Gaz. vol. 177; p. 1070.
Can-opener. F. E. Rollins. No. 1,027,905; May 28; Sp. p. 6207; Gaz. vol. 178; p. 1065.
Can-opener. R. Blake and C. W. College. No. 1,039,015; Sept. 17; Gaz. vol. 182; p. 691.
Can-opener. J. D. Houck. No. 1,042,917; Oct. 29; Gaz. vol. 183; p. 1229.
Can-opener. P. J. Wesolowski. No. 1,043,650; Nov. 5; Gaz. vol. 184; p. 215.
Can-opener. C. A. Johnson. No. 1,047,066; Dec. 10; Gaz. vol. 185; p. 476.
Can opener and sealer. F. E. Teves. No. 1,027,932; May 28; Sp. p. 6247; Gaz. vol. 178; p. 1073.
Can-opener and spout, Combination. A. B. Foans. No. 1,016,135; Jan. 30; Sp. p. 6677; Gaz. vol. 174; p. 1160.
Can opener and stopper. R. Hulme. No. 1,029,686; June 18; Sp. p. 3506; Gaz. vol. 179; p. 621.
Can-opener, Safety. E. D. Smith. No. 1,036,157; Aug. 20; Gaz. vol. 181; p. 664.
Can-opening device. E. L. Oberg. No. 1,048,202; Dec. 24; Gaz. vol. 185; p. 930.
Can receptacle, Garbage-. C. A. Raggio. No. 1,044,417; Nov. 12; Gaz. vol. 184; p. 509.
Can-shipping case. E. Weislowits and M. Reich. No. 1,033,643; July 23; Gaz. vol. 180; p. 1077.
Can-spout. R. T. Cooke. No. 1,018,552; Feb. 27; Sp. p. 5201; Gaz. vol. 175; p. 904.
Can-spout. C. F. Kellom. No. 1,022,195; Apr. 2; Sp. p. 939; Gaz. vol. 177; p. 150.
Can-testing machine. C. B. McDonald and J. E. McCullough. No. 1,013,796; Jan. 2; Sp. p. 1543; Gaz. vol. 174; p. 245.
Can-testing machine. C. B. McDonald. No. 1,025,199; May 7; Sp. p. 198; Gaz. vol. 178; p. 33.
Can-testing machine. W. G. Moffet. No. 1,032,926; July 16; Gaz. vol. 180; p. 798.
Can-tipping machine. G. A. Marsh. No. 1,034,473; Aug. 6; Gaz. vol. 181; p. 23.
Can top, Ash-. T. K. Vertner. No. 1,044,306; Nov. 12; Gaz. vol. 184; p. 471.
Can-top holder and marker, Combined. A. Pohjanen. No. 1,039,797; Oct. 1; Gaz. vol. 183; p. 43.
Can top, Powder-. F. Reutter. No. 1,021,479; Mar. 26; Sp. p. 5279; Gaz. vol. 176; p. 952.
Can top, Powder-. F. Reutter. No. 1,021,480; Mar. 26; Sp. p. 5281; Gaz. vol. 176; p. 952.
Can top, Powder-. F. Reutter. No. 1,021,481; Mar. 26; Sp. p. 5282; Gaz. vol. 176; p. 953.
Can top, Powder-. F. Reutter. No. 1,021,482; Mar. 26; Sp. p. 5284; Gaz. vol. 176; p. 953.
Can-washing machine. G. F. Dickson. No. 1,040,248; Oct. 1; Gaz. vol. 183; p. 193.
Can with self-closing lid. L. Schott. No. 1,028,499; June 4; Sp. p. 962; Gaz. vol. 179; p. 145.
Cans and the like, Apparatus for cleaning milk-. H. Allesöe, J. M. Jensen, and C. J. Schou. No. 1,036,772; Aug. 27; Gaz. vol. 181; p. 907.
Cans and the like, Apparatus for handling. F. L. Jefferies and W. Spain. No. 1,015,319; Jan. 23; Sp. p. 4915; Gaz. vol. 174; p. 851.
Cans and the like, Closer for. W. H. Perkins. No. 1,027,429; May 28; Sp. p. 5168; Gaz. vol. 178; p. 906.
Cans, Attachment to friction-top. H. J. Wickman. No. 1,020,589; Mar. 19; Sp. p. 3367; Gaz. vol. 176; p. 598.

Cans, Closure for hermetically-sealed food-preserving. B. H. Kannenberg. No. 1,039,753; Oct. 1; Gaz. vol. 183; p. 28.
Cans, Device for taking out dents in milk-. E. J. Fish. No. 1,033,687; July 23; Gaz. vol. 180; p. 1090.
Cans, Hinged cap for powder-. F. Reutter. No. 1,021,483; Mar. 26; Sp. p. 5286; Gaz. vol. 176; p. 953.
Cans in exhausters, cookers, &c., Means for conveying. L. E. McCann. No. 1,023,087; Apr. 9; Sp. p. 2837; Gaz. vol. 177; p. 483.
Cans, Making. C. E. Bertels. No. 1,013,366; Jan. 2; Sp. p. 606; Gaz. vol. 174; p. 97.
Cans, Refrigerating-cover for milk-. S. Shapiro. No. 1,020,719; Mar. 19; Sp. p. 3656; Gaz. vol. 176; p. 643.
Cans, Spring attachment for oil-. A. E. Mossberg. No. 1,038,181; Sept. 10; Gaz. vol. 182; p. 369.
Canned milk, &c., Device for opening, holding, preserving, and using. J. M. Day. No. 1,041,971; Oct. 22; Gaz. vol. 183; p. 879.
Canning acid fruits or vegetables. R. M. Glacken. No. 1,021,770; Apr. 2; Sp. p. 30; Gaz. vol. 177; p. 8.
Canning and drying apparatus. J. C. Everton. No. 1,036,985; Aug. 27; Gaz. vol. 181; p. 978.
Canning, Exhaust-box for fruit-. W. C. Anderson and A. R. Thompson. No. 1,036,534; Aug. 27; Gaz. vol. 181; p. 827.
Canning sardines. E. M. Lawrence. No. 1,037,156; Aug. 27; Gaz. vol. 181; p. 1035.
Canning scrapple. F. A. Vogt. No. 1,035,502; Aug. 13; Gaz. vol. 181; p. 403.
Canal-feeder. R. L. Martin. No. 1,029,505; June 11; Sp. p. 3115; Gaz. vol. 179; p. 522.
Canal-gate. J. D. Jones. No. 1,046,599; Dec. 10; Gaz. vol. 185; p. 317.
Canal-lock gates, Device or appliance for the protection of. N. W. Gowan. No. 1,030,580; June 25; Sp. p. 5602; Gaz. vol. 179; p. 973.
Canal system, Automatic. M. M. Wood. No. 1,037,396; Sept. 3; Gaz. vol. 182; p. 73.
Canceling machine Stamp-. W. C. Huddleston. No. 1,046,190; Dec. 3; Gaz. vol. 185; p. 134.
Candelabrum. H. F. Nehr. No. 1,014,410; Jan. 9; Sp. p. 2939; Gaz. vol. 174; p. 487.
Candle, Acetylene-. R. R. Arnold. No. 1,043,039; Oct. 29; Gaz. vol. 183; p. 1272.
Candle-holder. C. H. Bourgeois. No. 1,017,375; Feb. 13; Sp. p. 2529; Gaz. vol. 175; p. 428.
Candle-holder. H. C. Deckert. No. 1,021,921; Apr. 2; Sp. p. 355; Gaz. vol. 177; p. 59.
Candle-holder. J. P. Raoux. No. 1,027,901; May 28; Sp. p. 6201; Gaz. vol. 178; p. 1063.
Candle-holder. N. Zyliewicz. No. 1,034,751; Aug. 6; Gaz. vol. 181; p. 117.
Candle-holder. N. Zyliewicz. No. 1,034,752; Aug. 6; Gaz. vol. 181; p. 117.
Candle-holder. O. Kampfe. No. 1,035,711; Aug. 13; Gaz. vol. 181; p. 472.
Candle-holder. C. A. Foss. No. 1,039,921; Oct. 1; Gaz. vol. 183; p. 83.
Candle-holder. N. Zyliewicz. (Reissue.) No. 13,481; Oct. 15; Gaz. vol. 183; p. 757.
Candle-holder. N. Zyliewicz. (Reissue.) No. 13,482; Oct. 15; Gaz. vol. 183; p. 758.
Candle holding and protecting device. G. A. Eckman. No. 1,034,435; Aug. 6; Gaz. vol. 181; p. 12.
Candlestick-lubricator. E. L. Faul. No. 1,036,205; Aug. 20; Gaz. vol. 181; p. 682.
Candlestick, Miner's. A. Viera. No. 1,020,332; Mar. 12; Sp. p. 2798; Gaz. vol. 176; p. 474.
Candy and candy produced thereby, Manufacturing. W. F. Speck. No. 1,025,326; May 7; Sp. p. 492; Gaz. vol. 178; p. 76.
Candy, Apparatus for the manufacture of rock-. W. J. Rigney. No. 1,031,199; July 2; Gaz. vol. 180; p. 125.
Candy cooking and mixing furnace. N. Holman. No. 1,040,681; Oct. 8; Gaz. vol. 183; p. 377.
Candy-cutting machine. M. Armstrong. No. 1,013,634; Jan. 2; Sp. p. 1181; Gaz. vol. 174; p. 188.
Candy-cutting machine. A. Jackson. No. 1,019,793; Mar. 12; Sp. p. 1699; Gaz. vol. 176; p. 296.
Candy-cutting machine. J. T. Hohberger. No. 1,031,647; July 2; Gaz. vol. 180; p. 277.
Candy-dipping frame. G. Brain. No. 1,019,220; Mar. 5; Sp. p. 468; Gaz. vol. 176; p. 75.
Candy kisses, &c., Machine for cutting and wrapping. E. R. Knott. No. 1,025,069; Apr. 30; Sp. p. 7117; Gaz. vol. 177; p. 1251.
Candy-making machine. R. J. Savage and C. E. Schultz. No. 1,040,427; Oct. 8; Gaz. vol. 183; p. 284.
Candy-pail top trim. G. A. Goelitz. No. 1,026,435; May 14; Sp. p. 2969; Gaz. vol. 178; p. 491.
Candy-pulling machine. F. P. Souder. No. 1,032,958; July 16; Gaz. vol. 180; p. 808.
Candy-wrapping machine. S. M. and G. N. Hamblin. No. 1,025,524; May 7; Sp. p. 939; Gaz. vol. 178; p. 145.
Cane and maize juices, Preparing sugar-. F. L. Stewart. No. 1,018,994; Feb. 27; Sp. p. 6130; Gaz. vol. 175; p. 1053.
Cane and the like, Apparatus for conveying and loading sugar-. C. Crozier. No. 1,025,379; May 7; Sp. p. 614; Gaz. vol. 178; p. 95.
Cane and tobacco-pipe, Combined. I. Hoffman. No. 1,013,776; Jan. 2; Sp. p. 1513; Gaz. vol. 174; p. 240.
Cane and umbrella, Combination. F. E. Siggins. No. 1,023,686; Apr. 16; Sp. p. 4078; Gaz. vol. 177; p. 716.
Cane-cutter. F. Hustace and J. J. Smiddy. No. 1,021,605; Mar. 26; Sp. p. 5536; Gaz. vol. 176; p. 994.
Cane-cutter. E. E. Paxton. No. 1,028,486; June 4; Sp. p. 938; Gaz. vol. 179; p. 140.
Cane-mill. J. H. Fogarty. No. 1,037,885; Sept. 10; Gaz. vol. 182; p. 270.
Cane-mill roller, Sugar-. R. Mitchell. No. 1,015,577; Jan. 23; Sp. p. 5492; Gaz. vol. 174; p. 939.
Cane mill, Sugar-. W. J. Dyer and A. F. Ewart. No. 1,021,829; Apr. 2; Sp. p. 177; Gaz. vol. 177; p. 29.
Cane mills, Intermediate belt conveyer for sugar-. I. P. Kimball and R. J. Pratt. No. 1,020,706; Mar. 19; Sp. p. 3627; Gaz. vol. 176; p. 637.
Cane-stripper. J. W. Jackson. No. 1,022,242; Apr. 2; Sp. p. 1042; Gaz. vol. 177; p. 166.
Canoe attachment. E. L. Sargent. No. 1,041,679; Oct. 15; Gaz. vol. 183; p. 741.
Canoes, Back-rest for. J. E. Benson. No. 1,026,898; May 21; Sp. p. 3987; Gaz. vol. 178; p. 686.
Canoes, Outrigger-thwart for. A. H. Riggs. No. 1,037,990; Sept. 10; Gaz. vol. 182; p. 307.
Canopy. T. Jackson. No. 1,021,930; Apr. 2; Sp. p. 369; Gaz. vol. 177; p. 61.
Canopy for draft-animals. F. H. Crocker and P. E. Sheridan. No. 1,021,217; Mar. 26; Sp. p. 4689; Gaz. vol. 176; p. 859.
Canopy-screen for doors. L. S. Couplin. No. 1,036,801; Aug. 27; Gaz. vol. 181; p. 917.
Canopy, Window-. W. J. Kappeler. No. 1,034,388; July 30; Gaz. vol. 180; p. 1361.
Cant-hook. J. H. Ritter. No. 1,029,892; June 18; Sp. p. 3984; Gaz. vol. 179; p. 693.
Canteen. E. S. Sayer. No. 1,032,086; July 9; Gaz. vol. 180; p. 468.
Canteen. A. M. Moffat. No. 1,047,681; Dec. 17; Gaz. vol. 185; p. 728.
Caoutchouc-like products, Manufacturing. A. Caroselli. No. 1,031,837; July 9; Gaz. vol. 180; p. 386.
Caoutchouc substances from getting sticky and resinous, Preventing. F. Hofmann, K. Delbrück, and K. Meisenburg. No. 1,039,741; Oct. 1; Gaz. vol. 183; p. 24.
Caoutchouc, Synthetic. A. Heinemann. No. 1,035,788; Aug. 13; Gaz. vol. 181; p. 498.
Cap. C. S. Greenwood. No. 1,017,049; Feb. 13; Sp. p. 1820; Gaz. vol. 175; p. 316.
Cap. J. S. Pethybridge. No. 1,022,153; Apr. 2; Sp. p. 854; Gaz. vol. 177; p. 135.
Cap. E. Turner. No. 1,026,479; May 14; Sp. p. 3069; Gaz. vol. 178; p. 506.
Cap. G. A. Bader. No. 1,033,518; July 23; Gaz. vol 180; p. 1035.
Cap. C. I. Minkoff and L. Kronthal. No. 1,040,727; Oct. 8; Gaz. vol. 183; p. 391.
Cap. J. A. Seely. No. 1,043,152; Nov. 5; Gaz. vol. 184; p. 37.
Cap and bonnet, Combination. F. Bruder. No. 1,019,019; Mar. 5; Sp. p. 14; Gaz. vol. 176; p. 5.
Cap and socket wrench used on and in connection with valves of pneumatic tires for wheels, Combined. J. H. Crowell. No. 1,017,537; Feb. 13; Sp. p. 2878; Gaz. vol. 175; p. 485.
Cap, Bathing-. T. W. Miller. No. 1,028,826; June 4; Sp. p. 1628; Gaz. vol. 179; p. 254.
Cap-block. J. M. Benninger. No. 1,043,662; Nov. 5; Gaz. vol. 184; p. 218.
Cap-crimping die. R. V. Craggs. No. 1,021,825; Apr. 2; Sp. p. 166; Gaz. vol. 177; p. 27.
Cap-feeding mechanism. A. Johnson. No. 1,042,922; Oct. 29; Gaz. vol. 183; p. 1231.
Cap-hemming machine. G. Horvath and G. E. Green. No. 1,022,552; Apr. 9; Sp. p. 1682; Gaz. vol. 177; p. 298.
Caps, Making metal. O. Zerk. No. 1,027,457; May 28; Sp. p. 5213; Gaz. vol. 178; p. 914.
Caps, Making winged. O. Zerk. No. 1,048,261; Dec. 24; Gaz. vol. 185; p. 949.
Capping-machine. E. L. Perry. No. 1,022,591; Apr. 9; Sp. p. 1767; Gaz. vol. 177; p. 311.
Capping-machine. W. L. Wright. No. 1,026,892; May 21; Sp. p. 3972; Gaz. vol. 178; p. 684.
Capping-off device. H. F. Hitner. No. 1,019,792; Mar. 12; Sp. p. 1698; Gaz. vol. 176; p. 296.
Caponizing instrument. G. Beuoy. No. 1,025,363; May 7; Sp. p. 572; Gaz. vol. 178; p. 89.
Capstan or windlass. L. Bayer. No. 1,040,120; Oct. 1; Gaz. vol. 183; p. 151.
Capstan-screw. A. C. Recker. No. 1,024,100; Apr. 23; Sp. p. 5005; Gaz. vol. 177; p. 884.
Capstan, Swivel-. C. Sherwood. No. 1,016,101; Jan. 30; Sp. p. 6617; Gaz. vol. 174; p. 1149.
Capsule. W. and A. M. Henderson. No. 1,024,259; Apr. 23; Sp. p. 5373; Gaz. vol. 177; p. 941.
Capsule. F. H. Drake. No. 1,046,056; Dec. 3; Gaz. vol. 185; p. 88.
Capsule, Collapsible. R. H. Bell. No. 1,023,499; Apr. 16; Sp. p. 3717; Gaz. vol. 177; p. 658.

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Capsuling device. C. Gentle. No. 1,038,869; Sept. 17; Gaz vol. 182; p. 642.
Car. S. Otis. No. 1,019,911; Mar. 12; Sp. p. 1940; Gaz. vol. 176; p. 337.
Car. W. H. Yost. No. 1,028,925; June 11; Sp. p. 1871; Gaz. vol. 179; p. 323.
Car. M. Epstein. No. 1,029,919; June 18; Sp. p. 4053; Gaz. vol. 179; p. 703.
Car and grain door, Combined. R. C. Johnson and D. S. McEwing. No. 1,022,422; Apr. 9; Sp. p. 1423; Gaz. vol. 177; p. 255.
Car and other receptacle, Charging-. G. K. Hamfeldt. No. 1,014,467; Jan. 9; Sp. p. 3044; Gaz. vol. 174; p. 505.
Car and traction mechanism, Monorail-. H. H. V. Koelle. No. 1,048,320; Dec. 24; Gaz. vol. 185; p. 970.
Car attachment. E. E. Campbell. No. 1,039,361; Sept. 24; Gaz. vol. 182; p. 827.
Car automatic coupling, Mine-. D. H. Taylor. No. 1,028,634; June 4; Sp. p. 1230; Gaz. vol. 179; p. 189.
Car automatic safety appliance, Railway-. W. L. Poole. No. 1,026,766; May 21; Sp. p. 3699; Gaz. vol. 178; p. 640.
Car, Bathing-. J. Barker. No. 1,032,581; July 16; Gaz. vol. 180; p. 681.
Car-bolster. J. M. Rohlfing. No. 1,021,164; Mar. 26; Sp. p. 4583; Gaz. vol. 176; p. 842.
Car-bolster. J. M. Ames. No. 1,021,733; Mar. 26; Sp. p. 5768; Gaz. vol. 176; p. 1036.
Car-bolster. J. A. Lamont. No. 1,031,276; July 2; Gaz. vol. 180; p. 151.
Car bolster and side bearing. A. E. Ostrander. No. 1,042,470; Oct. 29; Gaz. vol. 183; p. 1074.
Car bolster, Railway-. E. D. Hillman. No. 1,029,291; June 11; Sp. p. 2638; Gaz. vol. 179; p. 448.
Car-bolt appliance. J. H. McManaman and E. Greiner. No. 1,030,476; June 25; Sp. p. 5279; Gaz. vol. 179; p. 936.
Car-brake. J. A. Noel. No. 1,015,063; Jan. 16; Sp. p. 4397; Gaz. vol. 174; p. 738.
Car-brake. A. F. Klasing. No. 1,016,332; Feb. 6; Sp. p. 220; Gaz. vol. 175; p. 33.
Car-brake. L. L. Tyler. No. 1,020,936; Mar. 19; Sp. p. 4090; Gaz. vol. 176; p. 715.
Car-brake. J. Klasnick. No. 1,034,252; July 30; Gaz. vol. 180; p. 1314.
Car-brake. H. Stillman. No. 1,034,659; Aug. 6; Gaz. vol. 181; p. 84.
Car-brake. J. Thenser. No. 1,035,918; Aug. 20; Gaz. vol. 181; p. 581.
Car-brake. C. Mineart. No. 1,036,878; Aug. 27; Gaz. vol. 181; p. 942.
Car-brake. P. Brown. No. 1,037,120; Aug. 27; Gaz. 181; p. 1024.
Car-brake. P. Brown. No. 1,037,121; Aug. 27; Gaz. vol. 181; p. 1024.
Car-brake. W. E. Bowers. No. 1,037,587; Sept. 3; Gaz. vol. 182; p. 138.
Car-brake. R. F. Massey. No. 1,040,368; Oct. 8; Gaz. vol. 183; p. 264.
Car-brake. M. J. Farrier, Jr. No. 1,047,022; Dec. 10; Gaz. vol. 185; p. 462.
Car brake and fender, Coacting. I. Macowsky and M. Hollzer. No. 1,018,978; Feb. 27; Sp. p. 6093; Gaz. vol. 175; p. 1048.
Car brake-gear, Railway-. M. B. Schaffer. No. 1,039,821; Oct. 1; Gaz. vol. 183; p. 51.
Car brake-head, Railway-. P. B. Harrison. No. 1,017,053; Feb. 13; Sp. p. 1828; Gaz. vol. 175; p. 317.
Car brake, Mine-. D. W. Anderson, W. M. Boyce, and F. W. Hollopeter. No. 1,043,498; Nov. 5; Gaz. vol. 184; p. 163.
Car brake, Pit-. W. Nalepka. No. 1,018,261; Feb. 20; Sp. p. 4493; Gaz. vol. 175; p. 772.
Car-brake rigging. I. S. Downing. No. 1,027,379; May 21; Sp. p. 5051; Gaz. vol. 178; p. 850.
Car brake-rigging, Railway-. L. E. Oliver and A. Cureton. No. 1,023,388; Apr. 16; Sp. p. 3497; Gaz. vol. 177; p. 623.
Car-brake-setting lever. A. W. Tellander. No. 1,022,445; Apr. 9; Sp. p. 1461; Gaz. vol. 177; p. 262.
Car brake-shoe, Railway-. I. Kincaid. No. 1,025,916; May 7; Sp. p. 1809; Gaz. vol. 178; p. 278.
Car buffer and end sill. T. L. McKeen. No. 1,016,701; Feb. 6; Sp. p. 1062; Gaz. vol. 175; p. 163.
Car-buffer construction. T. Watkins. No. 1,026,063; May 14; Sp. p. 2137; Gaz. vol. 178; p. 364.
Car buffer, Railway-. M. Simon. No. 1,029,088; June 11; Sp. p. 2221; Gaz. vol. 179; p. 379.
Car-buffing device. T. L. McKeen. No. 1,016,702; Feb. 6; Sp. p. 1064; Gaz. vol. 175; p. 163.
Car-buffing device. T. L. McKeen. No. 1,043,335; Nov. 5; Gaz. vol. 184; p. 104.
Car buffing mechanism, Railway-. R. D. Gallagher, Jr. No. 1,018,042; Feb. 20; Sp. p. 4020; Gaz. vol. 175; p. 695.
Car-bunk. E. E. Perkins. No. 1,019,353; Mar. 5; Sp. p. 798; Gaz. vol. 176; p. 120.
Car-cager. J. Lawless. No. 1,044,460; Nov. 12; Gaz. vol. 184; p. 523.
Car cast-steel underframe. C. H. Howard. No. 1,035,194; Aug. 13; Gaz. vol. 181; p. 296.
Car cast-steel underframe. C. H. Howard. No. 1,038,753; Sept. 17; Gaz. vol. 182; p. 602.
Car cast-steel underframe. C. H. Howard. No. 1,039,403; Sept. 24; Gaz. vol. 182; p. 842.
Car center-bearing, Railway-. E. S. Woods. No. 1,016,595; Feb. 6; Sp. p. 834; Gaz. vol. 175; p. 125.
Car center-bearing, Railway-. O. Anderson. No. 1,073,576; Sept. 3; Gaz. vol. 182; p. 135.
Car center-bearing, Railway-. G. E. Andrews. No. 1,041,946; Oct. 22; Gaz. vol. 183; p. 870.
Car-chair. C. C. Taylor. No. 1,047,460; Dec. 17; Gaz. vol. 185; p. 648.
Car-chair, Reclining. C. C. Taylor. No. 1,047,461; Dec. 17; Gaz. vol. 185; p. 648.
Car-chair, Reclining. C. C. Taylor. No. 1,047,462; Dec. 17; Gaz. vol. 185; p. 649.
Car, Child's hand-. C. A. Erickson. No. 1,018,656; Feb. 27; Sp. p. 5412; Gaz. vol. 175; p. 937.
Car, Cinder-. L. F. Kuhn. No. 1,047,659; Dec. 17; Gaz. vol. 185; p. 720.
Car, Colonnade-. L. Clark. No. 1,033,540; July 23; Gaz. vol. 180; p. 1042.
Car-connecting platform, Railway-. T. Douglas. No. 1,040,529; Oct. 8; Gaz. vol. 183; p. 320.
Car construction. E. G. Budd. No. 1,017,243; Feb. 13; Sp. p. 2261; Gaz. vol. 175; p. 384.
Car construction. H. M. Pflager. No. 1,021,207; Mar. 26; Sp. p. 4667; Gaz. vol. 176; p. 856.
Car construction. J. M. Coleman. No. 1,026,945; May 21; Sp. p. 4125; Gaz. vol. 178; p. 703.
Car construction. J. C. Barber. No. 1,031,163; July 2; Gaz. vol. 180; p. 111.
Car construction. C. F. Frede and C. T. Westlake. No. 1,039,043; Sept. 17; Gaz vol. 182; p. 698.
Car construction. A. E. Ostrander. No. 1,045,429; Nov. 26; Gaz. vol. 184; p. 919.
Car construction. C. F. Frede and C. T. Westlake. No. 1,046,382; Dec. 3; Gaz. vol. 185; p. 204.
Car construction, Box-. W. P. Bettendorf. No. 1,036,786; Aug. 27; Gaz. vol. 181; p. 912.
Car construction, Dump-. J. M. Coleman. No. 1,027,241; May 21; Sp. p. 4775; Gaz. vol. 178; p. 803.
Car construction, Dump-. J. M. Coleman. No. 1,048,042; Dec. 24; Gaz. vol. 185; p. 877.
Car construction, Element used in. R. G. Taylor. No. 1,031,887; July 9; Gaz. vol. 180; p. 404.
Car construction, Metal-box-. W. P. Bettendorf. No. 1,031,232; July 2; Gaz. vol. 180; p. 135.
Car construction, Railway-. O. Otterson. No. 1,040,572; Oct. 8; Gaz. vol. 183; p. 335.
Car construction, Tank-. C. A. Lindström. No. 1,021,539; Mar. 26; Sp. p. 5404; Gaz. vol. 176; p. 973.
Car, Convertible. C. J. W. Clasen. No. 1,025,609; May 7; Sp. p. 1117; Gaz. vol. 178; p. 174.
Car, Convertible. S. C. Lindsay. No. 1,043,326; Nov. 5; Gaz. vol. 184; p. 101.
Car-coupling. L. Riegler. No. 1,013,220; Jan. 2; Sp. p. 293; Gaz. vol. 174; p. 46.
Car-coupling. E. P. Kinne. No. 1,013,880; Jan. 9; Sp. p. 1770; Gaz. vol. 174; p. 303.
Car-coupling. K. Szafran. No. 1,013,906; Jan. 9; Sp. p. 1825; Gaz. vol. 174; p. 312.
Car-coupling. H. C. Kerr. No. 1,014,485; Jan. 9; Sp. p. 3072; Gaz. vol. 174; p. 510.
Car-coupling. E. M. Maw. No. 1,015,052; Jan. 16; Sp. p. 4375; Gaz. vol. 174; p. 734.
Car-coupling. L. Batchlor. No. 1,015,533; Jan. 23; Sp. p. 5389; Gaz. vol. 174; p. 923.
Car-coupling. S. L. Smith. No. 1,020,850; Mar. 19; Sp. p. 3941; Gaz. vol. 176; p. 686.
Car-coupling. M. C. Ironside. No. 1,021,103; Mar. 26; Sp. p. 4441; Gaz. vol. 176; p. 822.
Car-coupling. W. Kelso. No. 1,021,412; Mar. 26; Sp. p. 5136; Gaz. vol. 176; p. 929.
Car-coupling. J. Kelso. No. 1,021,465; Mar. 26; Sp. p. 5255; Gaz. vol. 176; p. 948.
Car-coupling. J. V. Munger. No. 1,021,698; Mar. 26; Sp. p. 5689; Gaz. vol. 176; p. 1024.
Car-coupling. W. S. Schroeder. No. 1,022,335; Apr. 2; Sp. p. 1222; Gaz. vol. 177; p. 195.
Car-coupling. A. S. Waldrep. No. 1,022,614; Apr. 9; Sp. p. 1824; Gaz. vol. 177; p. 319.
Car-coupling. W. S. McGinnis. No. 1,022,796; Apr. 9; Sp. p. 2238; Gaz. vol. 177; p. 383.
Car-coupling. C. H. Stark. No. 1,023,444; Apr. 16; Sp. p. 3607; Gaz. vol. 177; p. 640.
Car-coupling. J. A. Cowie and J. C. Marshall. No. 1,023,818; Apr. 23; Sp. p. 4354; Gaz. vol. 177; p. 787.
Car-coupling. W. and J. Kelso. No. 1,024,083; Apr. 23; Sp. p. 4952; Gaz. vol. 177; p. 877.
Car-coupling. A. A. Lorimor. No. 1,025,071; Apr. 30; Sp. p. 7127; Gaz. vol. 177; p. 1252.
Car-coupling. M. W. Kirkland. No. 1,027,207; May 21; Sp. p. 4709; Gaz. vol. 178; p. 791.

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Car-coupling. B. M. Grate. No. 1,032,751; July 16; Gaz. vol. 180; p. 741.
Car-coupling. I. H. Milliken. No. 1,033,259; July 23; Gaz. vol. 180; p. 951.
Car-coupling. H. S. Hallwood. No. 1,035,698; Aug. 13; Gaz. vol. 181; p. 468.
Car-coupling. R. B. H. Leighton and V. W. Zilen. No. 1,036,278; Aug. 20; Gaz. vol. 181; p. 707.
Car-coupling. H. C. Buhoup. No. 1,036,556; Aug. 27; Gaz. vol. 181; p. 835.
Car-coupling. J. F. and V. S. Durbin. No. 1,037,459; Sept. 3; Gaz. vol. 182; p. 97.
Car-coupling. J. Kelso. No. 1,037,490; Sept. 3; Gaz. vol. 182; p. 107.
Car-coupling. J. C. Meginness. No. 1,037,790; Sept. 3; Gaz. vol. 182; p. 204.
Car-coupling. E. F. Pendexter. No. 1,038,786; Sept. 17; Gaz. vol. 182; p. 614.
Car-coupling. H. T. Krakau. No. 1,040,551; Oct. 8; Gaz. vol. 183; p. 328.
Car-coupling. B. L. Kahne and A. L. Roberts. No. 1,040,690; Oct. 8; Gaz. vol. 183; p. 380.
Car-coupling. W. F. Richards. No. 1,041,348; Oct. 15; Gaz. vol. 183; p. 633.
Car-coupling. F. A. Krause. No. 1,041,488; Oct. 15; Gaz. vol. 183; p. 678.
Car-coupling. W. A. Shorter. No. 1,042,288; Oct. 22; Gaz. vol. 183; p. 982.
Car-coupling. J. V. Munger. No. 1,043,453; Nov. 5; Gaz. vol. 184; p. 145.
Car-coupling. E. H. Janney. No. 1,045,091; Nov. 19; Gaz. vol. 184; p. 774.
Car-coupling. L. N. Singin. No. 1,045,334; Nov. 26; Gaz. vol. 184; p. 885.
Car-coupling. O. C. Billman. No. 1,045,365; Nov. 26; Gaz. vol. 184; p. 897.
Car-coupling. B. Zuckerman. No. 1,047,603; Dec. 17; Gaz. vol. 185; p. 700.
Car-coupling. F. H. Wendt. No. 1,048,613; Dec. 31; Gaz. vol. 185; p. 1108.
Car-coupling. G. A. Hermanson. No. 1,049,086; Dec. 31; Gaz. vol. 185; p. 1273.
Car-coupling, Automatic. J. D. Shelton. No. 1,016,788; Feb. 6; Sp. p. 1242; Gaz. vol. 175; p. 191.
Car-coupling, Automatic. P. C. Brown. No. 1,031,618; July 2; Gaz. vol. 180; p. 266.
Car-coupling, Automatic. H. F. Woernley. No. 1,045,489; Nov. 26; Gaz. vol. 184; p. 941.
Car-coupling device. J. E. Hudler. No. 1,045,556; Nov. 26; Gaz. vol. 184; p. 966.
Car-coupling lock-set. J. F. and V. S. Durbin. No. 1,033,388; July 23; Gaz. vol. 180; p. 994.
Car coupling, Railway-. J. F. and V. S. Durbin. No. 1,019,138; Mar. 5; Sp. p. 296; Gaz. vol. 176; p. 46.
Car coupling, Railway-. J. F. and V. S. Durbin. No. 1,025,521; May 7; Sp. p. 926; Gaz. vol. 178; p. 144.
Car coupling, Railway-. J. F. and V. S. Durbin. No. 1,037,458; Sept. 3; Gaz. vol. 182; p. 96.
Car-coupling uncoupling device. H. C. Buhoup. No. 1,021,913; Apr. 2; Sp. p. 338; Gaz. vol. 177; p. 56.
Car-coupling uncoupling mechanism. E. H. Schmidt. No. 1,016,854; Feb. 6; Sp. p. 1374; Gaz. vol. 175; p. 212.
Car-coupling uncoupling mechanism. E. H. Schmidt. No. 1,026,705; May 21; Sp. p. 3548; Gaz. vol. 178; p. 619.
Car-couplings, Bracket for uncoupling-rods of. W. E. Coffin. No. 1,026,658; May 21; Sp. p. 3455; Gaz. vol. 178; p. 603.
Car-couplings, Centering device for. E. H. Schmidt. No. 1,022,334; Apr. 2; Sp. p. 1220; Gaz. vol. 177; p. 195.
Car-couplings, Knuckle-pin retainer for. J. Kelso. No. 1,021,464; Mar. 26; Sp. p. 5254; Gaz. vol. 176; p. 947.
Car-couplings, Knuckle-pin retainer for. C. F. Murray. No. 1,026,278; May 14; Sp. p. 2613; Gaz. vol. 178; p. 438.
Car curtains, Fastener for vestibuled-. F. C. Grumley. No. 1,049,226; Dec. 31; Gaz. vol. 185; p. 1320.
Car-cushioning device. L. L. Leasure. No. 1,035,022; Aug. 6; Gaz. vol. 181; p. 206.
Car-door. H. M. Hazel and A. S. Coltharp. No. 1,013,770; Jan. 2; Sp. p. 1504; Gaz. vol. 174; p. 238.
Car-door. B. D. Jones. No. 1,015,387; Jan. 23; Sp. p. 5073; Gaz. vol. 174; p. 875.
Car-door. C. A. Schroyer. No. 1,015,405; Jan. 23; Sp. p. 5105; Gaz. vol. 174; p. 880.
Car-door. F. X. Malocsay. No. 1,024,797; Apr. 30; Sp. p. 6594; Gaz. vol. 177; p. 1159.
Car-door. J. W. Rumsey. No. 1,027,156; May 21; Sp. p. 4606; Gaz. vol. 178; p. 773.
Car-door. J. F. Conner. No. 1,030,719; June 25; Sp. p. 6001; Gaz. vol. 179; p. 1023.
Car-door. H. G. Malgady. No. 1,033,026; July 16; Gaz. vol. 180; p. 831.
Car-door. R. M. Mowry. No. 1,033,115; July 23; Gaz. vol. 180; p. 900.
Car-door. C. J. Mulhall. No. 1,035,806; Aug. 13; Gaz. vol. 181; p. 505.
Car-door. B. D. Jones. No. 1,036,854; Aug. 27; Gaz. vol. 181; p. 935.
Car-door. B. F. Forbes. No. 1,036,989; Aug. 27; Gaz. vol. 181; p. 980.
Car-door. A. C. Sager. No. 1,039,446; Sept. 24; Gaz. vol. 182; p. 856.
Car-door. H. C. Priebe. No. 1,040,011; Oct. 1; Gaz. vol. 183; p. 113.
Car-door. J. W. Rumsey. No. 1,041,881; Oct. 22; Gaz. vol. 183; p. 849.
Car-door. A. E. Rupp. No. 1,045,327; Nov. 26; Gaz. vol. 184; p. 883.
Car door and step operating mechanism, Passenger-railway-. J. H. E. Branson. No. 1,014,863; Jan. 16; Sp. p. 3963; Gaz. vol. 174; p. 670.
Car door arrangement, Dumping-. E. W. Summers. No. 1,038,228; Sept. 10; Gaz. vol. 182; p. 384.
Car-door device. W. E. Haley. No. 1,031,258; July 2; Gaz. vol. 180; p. 145.
Car door, Dump-. R. W. Burnett. No. 1,017,281; Feb. 13; Sp. p. 2334; Gaz. vol. 175; p. 397.
Car door, Dumping-. J. M. Rohlfing. No. 1,047,570; Dec. 17; Gaz. vol. 185; p. 688.
Car-door fastener. F. F. Gaines. No. 1,019,036; Mar. 5; Sp. p. 50; Gaz. vol. 176; p. 11.
Car-door fastener. R. J. Rennie. No. 1,021,211; Mar. 26; Sp. p. 4674; Gaz. vol. 176; p. 857.
Car-door fastener. J. R. Carmer. No. 1,037,125; Aug. 27; Gaz. vol. 181; p. 1026.
Car-door fastener, Box-. P. D. Hooton. No. 1,020,604; Mar. 19; Sp. p. 3395; Gaz. vol. 176; p. 603.
Car-door, Flush. F. F. Gaines. No. 1,023,833; Apr. 23; Sp. p. 4410; Gaz. vol. 177; p. 792.
Car-door, Flush. L. G. Handy. No. 1,024,893; Apr. 30; Sp. p. 6781; Gaz. vol. 177; p. 1193.
Car door, Freight-. J. P. Persson. No. 1,025,301; May 7; Sp. p. 419; Gaz. vol. 178; p. 68.
Car door, Freight-. C. A. Barnes. No. 1,032,266; July 9; Gaz. vol. 180; p. 530.
Car door, Grain-. C. Moore. No. 1,014,246; Jan. 9; Sp. p. 2577; Gaz. vol. 174; p. 429.
Car door, Grain-. C. H. Kenny and M. McMillan. No. 1,018,623; Feb. 27; Sp. p. 5335; Gaz. vol. 175; p. 926.
Car door, Grain-. C. J. Johnson. No. 1,038,148; Sept. 10; Gaz. vol. 182; p. 358.
Car door, Grain-. T. C. Chambers. No. 1,042,891; Oct. 29; Gaz. vol. 183; p. 1221.
Car door, Grain-. J. Morris and C. Brownlee. No. 1,045,313; Nov. 26; Gaz. vol. 184; p. 878.
Car door, Grain-. S. A. Miner. No. 1,047,131; Dec. 10; Gaz. vol. 185; p. 501.
Car-door guide. J. Rinehart. No. 1,045,888; Dec. 3; Gaz. vol. 185; p. 32.
Car-door hanger. J. T. Campbell. No. 1,019,129; Mar. 5; Sp. p. 276; Gaz. vol. 176; p. 42.
Car-door hanger. K. Osel. No. 1,044,908; Nov. 19; Gaz. vol. 184; p. 710.
Car-door hanger. R. L. Proudfoot. No. 1,047,701; Dec. 17; Gaz. vol. 185; p. 734.
Car-door hasp-fastener. E. Posson. No. 1,028,273; June 4; Sp. p. 459; Gaz. vol. 179; p. 67.
Car-door lock. W. M. Lewis. No. 1,016,836; Feb. 6; Sp. p. 1333; Gaz. vol. 175; p. 206.
Car-door lock. F. Snyder. No. 1,020,721; Mar. 19; Sp. p. 3660; Gaz. vol. 176; p. 644.
Car-door lock. F. E. Leighton. No. 1,021,740; Mar. 26; Sp. p. 5782; Gaz. vol. 176; p. 1038.
Car-door lock T. McCarthy. No. 1,027,265; May 21; Sp. p. 4812; Gaz. vol. 178; p. 811.
Car-door lock. F. Raley. No. 1,027,276; May 21; Sp. p. 4841; Gaz. vol. 178; p. 815.
Car-door lock. N. L. Anthony. No. 1,038,815; Sept. 17; Gaz. vol. 182; p. 624.
Car-door lock. C. L. Alden. No. 1,046,930; Dec. 10; Gaz. vol. 185; p. 433.
Car-door lock, Concealed. C. L. Perry. No. 1,036,325; Aug. 20; Gaz. vol. 181; p. 723.
Car-door lock, Mine-. J. A. Rivers. No. 1,026,964; May 21; Sp. p. 4161; Gaz. vol. 178; p. 710.
Car-door-locking apparatus. J. B. Lowell. No. 1,037,502; Sept. 3; Gaz. vol. 182; p. 111.
Car-door-locking system. H. Gordon. No. 1,034,615; Aug. 6; Gaz. vol. 181; p. 70.
Car-door mechanism. P. M. Elliott. No. 1,024,502; Apr. 30; Sp. p. 5911; Gaz. vol. 177; p. 1056.
Car-door mechanism. W. Gradick, Sr. No. 1,045,279; Nov. 26; Gaz. vol. 184; p. 867.
Car door mechanism, Side-dump-. K. H. Hansen. No. 1,031,067; July 2; Gaz. vol. 180; p. 78.
Car-door-operating device. A. Christianson. (Reissue.) No. 13,362; Jan. 16; Sp. p. 4818; Gaz. vol. 174; p. 811.
Car-door-operating device. W. C. Eldridge. No. 1,015,793; Jan. 30; Sp. p. 5953; Gaz. vol. 174; p. 1041.
Car-door-operating device. A. Christiansen. No. 1,019,023; Mar. 5; Sp. p. 19; Gaz. vol. 176; p. 6.
Car-door-operating device. L. G. Handy. No. 1,031,925; July 9; Gaz. vol. 180; p. 416.
Car-door-operating mechanism. A. Christianson. No. 1,021,351; Mar. 26; Sp. p. 4973; Gaz. vol. 176; p. 907.
Car-door-operating mechanism. R. G. Taylor. No. 1,026,230; May 14; Sp. p. 2522; Gaz. vol. 178; p. 422.
Car-door-operating mechanism. W. H. Yost. No. 1,028,415; June 4; Sp. p. 773; Gaz. vol. 179; p. 117.

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Car-door-operating mechanism. F. Ditchfield. No. 1,041,045; Oct. 15; Gaz. vol. 183; p. 529.
Car-door-operating mechanism. M. Taylor. No. 1,041,901; Oct. 22; Gaz. vol. 183; p. 855.
Car-door-operating mechanism, Railway-. F. Seaberg. No. 1,044,265; Nov. 12; Gaz. vol. 184; p. 457.
Car door, Prepayment-street-. G. C. Towle. No. 1,015,252; Jan. 16; Sp. p. 4757; Gaz. vol. 174; p. 801.
Car-door structure. B. D. Jones. No. 1,036,634; Aug. 27; Gaz. vol. 181; p. 862.
Car doors and steps, Mechanism for operating. G. W. Voigt. No. 1,043,483; Nov. 5; Gaz. vol. 184; p. 157.
Car doors, Guard-cleat for railway-. W. P. Bettendorf. No. 1,025,446; May 7; Sp. p. 760; Gaz. vol. 178; p. 117.
Car doors, Weather-strip construction for freight-. E. A. Hill. No. 1,033,172; July 23; Gaz. vol. 180; p. 920.
Car draft appliance, Railway-. W. McConway, Jr. No. 1,021,419; Mar. 26; Sp. p. 5148; Gaz. vol. 176; p. 932.
Car draft-gear. C. T. Westlake. No. 1,024,481; Apr. 23; Sp. p. 5831; Gaz. vol. 177; p. 1014.
Car draft-gear, Railway-. R. D. Gallagher, Jr. No. 1,017,047; Feb. 13; Sp. p. 1817; Gaz. vol. 175; p. 315.
Car draft-rigging. A. P. Prendergast and J. J. Tatum. No. 1,017,108; Feb. 13; Sp. p. 1963; Gaz. vol. 175; p. 337.
Car draft-rigging. W. E. Symons. No. 1,040,052; Oct. 1; Gaz. vol. 183; p. 127.
Car draft-rigging, Draft-yoke for railway-. G. A. Johnson. No. 1,038,758; Sept. 17; Gaz. vol. 182; p. 603.
Car draft-rigging, Railway-. J. Jerome. No. 1,018,323; Feb. 20; Sp. p. 4612; Gaz. vol. 175; p. 792.
Car draft-rigging, Railway-. G. Q. Lewis. No. 1,041,110; Oct. 15; Gaz. vol. 183; p. 552.
Car-draft-sill construction. W. R. McKeen, Jr. No. 1,028,760; June 4; Sp. p. 1494; Gaz. vol. 179; p. 232.
Car-draw-bar carry-iron. B. P. Flory. No. 1,027,194; May 21; Sp. p. 4678; Gaz. vol. 178; p. 786.
Car-drop-door mechanism. J. E. Tesseyman and R. R. Weaver. No. 1,022,516; Apr. 9; Sp. p. 1600; Gaz. vol. 177; p. 286.
Car drop-door-operating mechanism, Dumping-. E. W. Goodwin. No. 1,027,197; May 21; Sp. p. 4682; Gaz. vol. 178; p. 787.
Car, Dump-. F. S. Ingoldsby. No. 1,013,552; Jan. 2; Sp. p. 1005; Gaz. vol. 174; p. 161.
Car, Dump-. M. L. Hyde. No. 1,014,396; Jan. 9; Sp. p. 2910; Gaz. vol. 174; p. 482.
Car, Dump-. C. L. Lawton. No. 1,016,570; Feb. 6; Sp. p. 785; Gaz. vol. 175; p. 117.
Car, Dump-. H. H. Vaughan. No. 1,018,140; Feb. 20; Sp. p. 4249; Gaz. vol. 175; p. 730.
Car, Dump-. C. H. Clark. No. 1,018,155; Feb. 20; Sp. p. 4301; Gaz. vol. 175; p. 739.
Car, Dump-. H. S. Hart. No. 1,018,389; Feb. 20; Sp. p. 4760; Gaz. vol. 175; p. 815.
Car, Dump-. C. A. Lindström and J. F. Streib. No. 1,019,263; Mar. 5; Sp. p. 561; Gaz. vol. 176; p. 89.
Car, Dump-. R. M. Zimmerman. No. 1,021,083; Mar. 26; Sp. p. 4402; Gaz. vol. 176; p. 817.
Car, Dump-. R. M. Zimmerman. No. 1,021,084; Mar. 26; Sp. p. 4404; Gaz. vol. 176; p. 817.
Car, Dump-. R. M. Zimmerman. No. 1,021,286; Mar. 26; Sp. p. 4844; Gaz. vol. 176; p. 884.
Car, Dump-. R. M. Zimmerman. No. 1,021,287; Mar. 26; Sp. p. 4846; Gaz. vol. 176; p. 884.
Car, Dump-. H. S. Hart. No. 1,022,079; Apr. 2; Sp. p. 691; Gaz. vol. 177; p. 111.
Car, Dump-. O. W. Meissner. No. 1,022,748; Apr. 9; Sp. p. 2144; Gaz. vol. 177; p. 368.
Car, Dump-. F. S. Ingoldsby. No. 1,026,397; May 14; Sp. p. 2885; Gaz. vol. 178; p. 479.
Car, Dump-. J. O. Neikirk. No. 1,026,694; May 21; Sp. p. 3527; Gaz. vol. 178; p. 615.
Car, Dump-. J. R. Bowling. No. 1,026,785; May 21; Sp. p. 3732; Gaz. vol. 178; p. 646.
Car, Dump-. J. R. Bowling. No. 1,027,809; May 28; Sp. p. 5935; Gaz. vol. 178; p. 1031.
Car, Dump-. F. S. Ingoldsby. No. 1,027,849; May 28; Sp. p. 6054; Gaz. vol. 178; p. 1045.
Car, Dump-. F. S. Ingoldsby. No. 1,027,850; May 28; Sp. p. 6059; Gaz. vol. 178; p. 1046.
Car, Dump-. F. S. Ingoldsby and J. R. Bowling. No. 1,027,851; May 28; Sp. p. 6065; Gaz. vol. 178; p. 1046.
Car, Dump-. F. S. Ingoldsby. No. 1,028,116; June 4; Sp. p. 44; Gaz. vol. 179; p. 11.
Car, Dump-. F. S. Ingoldsby. No. 1,028,882; June 11; Sp. p. 1760; Gaz. vol. 179; p. 308.
Car, Dump-. F. L. Irwin. No. 1,028,941; June 11; Sp. p. 1899; Gaz. vol. 179; p. 328.
Car, Dump-. F. W. Hubbard. No. 1,029,194; June 11; Sp. p. 2431; Gaz. vol. 179; p. 414.
Car, Dump-. S. Otis. No. 1,033,342; July 23; Gaz. vol. 180; p. 978.
Car, Dump-. R. M. Zimmerman. No. 1,035,763; Aug. 13; Gaz. vol. 181; p. 490.
Car, Dump-. O. W. Meissner. No. 1,044,681; Nov. 19; Gaz. vol. 184; p. 631.
Car, Dump-. F. S. Ingoldsby. No. 1,046,191; Dec. 3; Gaz. vol. 185; p. 135.
Car, Dump-. F. S. Ingoldsby. No. 1,048,312; Dec. 24; Gaz. vol. 185; p. 968.
Car, Dump or drop-bottom. A. Campbell. No. 1,040,518; Oct. 8; Gaz. vol. 183; p. 352.
Car-dumper. J. W. McGlaughlin. No. 1,032,619; July 16; Gaz. vol. 180; p. 694.
Car, Dumping-. S. Wallwork. No. 1,013,341; Jan. 2; Sp. p. 556; Gaz. vol. 174; p. 89.
Car, Dumping-. G. A. Minetty. No. 1,013,801; Jan. 2; Sp. p. 1556; Gaz. vol. 174; p. 247.
Car, Dumping-. E. C. Sherman, W. W. McKelvey, and E. J. Reilly. No. 1,014,612; Jan. 9; Sp. p. 3331; Gaz. vol. 174; p. 553.
Car, Dumping-. V. Kouns. No. 1,021,686; Mar. 26; Sp. p. 5664; Gaz vol. 176; p. 1020.
Car, Dumping-. R. R. Weaver. No. 1,022,521; Apr. 9; Sp. p. 1616; Gaz. vol. 177; p. 288.
Car, Dumping-. H. Greer, Jr. No. 1,035,578; Aug. 13; Gaz. vol. 181; p. 429.
Car, Dumping-. C. P. Astrom. No. 1,037,848; Sept. 10; Gaz. vol. 182; p. 256.
Car, Dumping-. A. N. Doud. No. 1,038,318; Sept. 10; Gaz. vol. 182; p. 415.
Car, Dumping-. J. Karhu. No. 1,046,602; Dec. 10; Gaz. vol. 185; p. 319.
Car dumping and righting device, Pneumatic. N. Schaefers. No. 1,031,875; July 9; Gaz. vol. 180; p. 400.
Car-dumping apparatus. W. G. Adams. No. 1,033,512; July 23; Gaz. vol. 180; p. 1034.
Car-dumping mechanism. H. S. Salmon. No. 1,036,910; Aug. 27; Gaz. vol. 181; p. 952.
Car-dumping mechanism. K. H. Hansen. No. 1,040,670; Oct. 8; Gaz. vol. 183; p. 373.
Car-dumping mechanism, Railway-. E. Faragó. No. 1,045,690; Nov. 26; Gaz. vol. 184; p. 1013.
Car end construction, Railway-. W. P. Murphy and V. E. Sisson. No. 1,031,571; July 2; Gaz. vol. 180; p. 251.
Car end door-framing. E. Posson. No. 1,016,954; Feb. 13; Sp. p. 1609; Gaz. vol. 175; p. 283.
Car end frame. H. M. Pflager. No. 1,048,428; Dec. 24; Gaz. vol. 185; p. 1006.
Car end frame. H. M. Pflager. No. 1,048,997; Dec. 31; Gaz. vol. 185; p. 1242.
Car end frame. H. M. Pflager. No. 1,048,998; Dec. 31; Gaz. vol. 185; p. 1243.
Car end sill. O. S. Pulliam. No. 1,044,818; Nov. 19; Gaz. vol. 184; p. 679.
Car end underframe. C. S. Shallenberger. No. 1,048,431; Dec. 24; Gaz. vol. 185; p. 1007.
Car end underframe construction. R. E. Frame. No. 1,014,867; Jan. 16; Sp. p. 3973; Gaz. vol. 174; p. 672.
Car fare-box safety attachment, Street-. J. J. Smith, Jr. No. 1,035,393; Aug. 13; Gaz. vol. 181; p. 367.
Car-fender. A. Pozzi. No. 1,015,633; Jan. 23; Sp. p. 5615; Gaz. vol. 174; p. 960.
Car-fender. F. Lillich. No. 1,017,431; Feb. 13; Sp. p. 2659; Gaz. vol. 175; p. 449.
Car-fender. W. Helbling. No. 1,017,668; Feb. 20; Sp. p. 3138; Gaz. vol. 175; p. 565.
Car-fender. J. R. Maguire. No. 1,018,123; Feb. 20; Sp. p. 4212; Gaz. vol. 175; p. 724.
Car-fender. J. Lichetti. No. 1,019,671; Mar. 5; Sp. p. 1452; Gaz. vol. 176; p. 224.
Car-fender. F. M. Roush. No. 1,019,841; Mar. 12; Sp. p. 1775; Gaz. vol. 176; p. 311.
Car-fender. J. O. Vogel. No. 1,021,022; Mar. 26; Sp. p. 4283; Gaz. vol. 176; p. 795.
Car-fender. W. T. Garrison. No. 1,021,143; Mar. 26; Sp. p. 4530; Gaz. vol. 176; p. 835.
Car-fender. W. L. C. Koch. No. 1,021,413; Mar. 26; Sp. p. 5138; Gaz. vol. 176; p. 929.
Car-fender. O. Prince. No. 1,021,702; Mar. 26; Sp. p. 5694; Gaz. vol. 176; p. 1025.
Car-fender. F. W. Wells. No. 1,022,167; Apr. 2; Sp. p. 880; Gaz. vol. 177; p. 140.
Car-fender. W. Nadler and M. Ressler. No. 1,023,027; Apr. 9; Sp. p. 2705; Gaz. vol. 177; p. 462.
Car-fender. W. M. May. No. 1,025,533; May 7; Sp. p. 957; Gaz. vol. 178; p. 149.
Car-fender. T. J. Killeen. No. 1,026,678; May 21; Sp. p. 3494; Gaz. vol. 178; p. 610.
Car-fender. W. E. Crews. No. 1,029,976; June 18; Sp. p. 4164; Gaz. vol. 179; p. 721.
Car-fender. C. Wrigley. No. 1,032,462; July 16; Gaz. vol. 180; p. 641.
Car-fender. D. Ainis. No. 1,034,946; Aug. 6; Gaz. vol. 181; p. 183.
Car-fender. C. B. Martin. No. 1,035,621; Aug. 13; Gaz. vol. 181; p. 443.
Car-fender. R. H. Pogue. No. 1,038,955; Sept. 17; Gaz. vol. 182; p. 671.
Car-fender. J. F. E. Rose and C. Richard. No. 1,042,277; Oct. 22; Gaz. vol. 183; p. 979.
Car-fender. J. Gentless. No. 1,042,908; Oct. 29; Gaz. vol. 183; p. 1227.
Car-fender. W. H. Martin. No. 1,044,464; Nov. 12; Gaz. vol. 184; p. 525.
Car-fender. E. G. Hill. No. 1,044,654; Nov. 19; Gaz. vol. 184; p. 622.
Car-fender. A. J. Wisner. No. 1,045,655; Nov. 26; Gaz. vol. 184; p. 1001.

Car-fender. L. Finkelman. No. 1,048,672; Dec. 31; Gaz. vol. 185; p. 1131.
Car fender and wheel-guard. G. H. Bolduc. No. 1,039,086; Sept. 24; Gaz. vol. 182; p. 730.
Car fender, Street-. J. Juchniewicz. No. 1,034,247; July 30; Gaz. vol. 180; p. 1312.
Car floor-support and bolster, Hopper-. A. Becker. No. 1,029,525; June 11; Sp. p. 3149; Gaz. vol. 179; p. 528.
Car fluid-pressure brake, Railway-. E. A. Barber. No. 1,040,846; Oct. 8; Gaz. vol. 183; p. 429.
Car for monorailways. P. Barnes. No. 1,044,727; Nov. 19; Gaz. vol. 184; p. 647.
Car frame, Motor-. H. Mayer. No. 1,016,282; Feb. 6; Sp. p. 106; Gaz. vol. 175; p. 16.
Car, Freight-. E. Posson. No. 1,033,343; July 23; Gaz. vol. 180; p. 978.
Car friction-buffer, Railway-. T. L. McKeen. No. 1,016,703; Feb. 6; Sp. p. 1067; Gaz. vol. 175; p. 164.
Car friction draft-rigging, Railway-. J. F. O'Connor. No. 1,041,862; Oct. 22; Gaz. vol. 183; p. 842.
Car friction draft-rigging, Railway-. C. L. Bundy. No. 1,048,648; Dec. 31; Gaz. vol. 185; p. 1121.
Car, General-utility transportation-. E. D. Hillman. No. 1,035,438; Aug. 13; Gaz. vol. 181; p. 382.
Car grain-door. R. C. Miller. No. 1,017,786; Feb. 20; Sp. p. 3443; Gaz. vol. 175; p. 605.
Car grain-door. B. F. Owens. No. 1,019,274; Mar. 5; Sp. p. 583; Gaz. vol. 176; p. 94.
Car grain-door. W. W. Allen. No. 1,027,971; May 28; Sp. p. 6329; Gaz. vol. 178; p. 1086.
Car grain-door. W. A. Heiden. No. 1,037,761; Sept. 3; Gaz. vol. 182; p. 195.
Car grain-door. L. I. Larsen. No. 1,039,966; Oct. 1; Gaz. vol. 183; p. 98.
Car grain-door, Box-. A. E. H. Steinmann. No. 1,037,077; Aug. 27; Gaz. vol. 181; p. 1009.
Car grain-door, Box-. J. S. Bender. No. 1,045,249; Nov. 26; Gaz. vol. 184; p. 857.
Car grain-door, Freight-. P. Oak. No. 1,018,773; Feb. 27; Sp. p. 5660; Gaz. vol. 175; p. 978.
Car grain-door, Freight-. H. Kaler. No. 1,025,094; Apr. 30; Sp. p. 7194; Gaz. vol. 177; p. 1260.
Car grain-door, Railway-. J. T. W. Loe. No. 1,025,283; May 7; Sp. p. 381; Gaz. vol. 178; p. 62.
Car, Hand-. D. L. Palmer. No. 1,018,264; Feb. 20; Sp. p. 4498; Gaz. vol. 175; p. 773.
Car, Hand-. J. A. Chambers. No. 1,048,655; Dec. 31; Gaz. vol. 185; p. 1124.
Car-handling apparatus. L. L. Logan. (Reissue.) No. 13,376; Feb. 27; Sp. p. 6194; Gaz. vol. 175; p. 1065.
Car-handling apparatus. L. L. Logan. (Reissue.) No. 13,399; Apr. 9; Sp. p. 2906; Gaz. vol. 177; p. 493.
Car-handling mechanism. F. C. Greene and C. G. Palmer. No. 1,017,868; Feb. 20; Sp. p. 3621; Gaz. vol. 175; p. 634.
Car hanger, Box-. B. F. Pigg. No. 1,049,263; Dec. 31; Gaz. vol. 185; p. 1333.
Car, Heater-. C. A. Moore. No. 1,016,243; Jan. 30; Sp. p. 6880; Gaz. vol. 174; p. 1195.
Car-heater. D. R. Saunders. No. 1,039,819; Oct. 1; Gaz. vol. 183; p. 50.
Car-heater, Convertible steam. E. E. Gold. No. 1,024,626; Apr. 30; Sp. p. 6234; Gaz. vol. 177; p. 1099.
Car-heating coupling. J. F. McElroy. No. 1,023,265; Apr. 16; Sp. p. 3265; Gaz. vol. 177; p. 583.
Car-heating system. F. F. Coggin. No. 1,024,062; Apr. 23; Sp. p. 4911; Gaz. vol. 177; p. 870.
Car-heating system. L. T. Gibbs. No. 1,026,349; May 14; Sp. p. 2779; Gaz. vol. 178; p. 463.
Car-heating system. W. L. Garland. No. 1,032,398; July 16; Gaz. vol. 180; p. 620.
Car-holder. W. F. Meyers. No. 1,022,693; Apr. 9; Sp. p. 2006; Gaz. vol. 177; p. 347.
Car, hose, and electric-wire coupling. L. and J. Le Compte. No. 1,039,147; Sept. 24; Gaz. vol. 182; p. 750.
Car indicator, Railway-. A. May. No. 1,025,003; Apr. 30; Sp. p. 7007; Gaz. vol. 177; p. 1231.
Car indicator, Street-. H. Gebhart. No. 1,017,404; Feb. 13; Sp. p. 2595; Gaz. vol. 175; p. 439.
Car journal-bearing, Railway-. S. H. Campbell. No. 1,022,400; Apr. 9; Sp. p. 1353; Gaz. vol. 177; p. 248.
Car journal-box. A. Berry. No. 1,026,487; May 14; Sp. p. 3081; Gaz. vol. 178; p. 508.
Car journal-box. A. Berry. No. 1,044,122; Nov. 12; Gaz. vol. 184; p. 408.
Car-journal-box dust-guard. L. Y. Williams. No. 1,017,277; Feb. 13; Sp. p. 2327; Gaz. vol. 175; p. 396.
Car-journal-cooling apparatus. F. H. Collins. No. 1,019,760; Mar. 12; Sp. p. 1639; Gaz. vol. 176; p. 286.
Car ladder, Freight-. W. A. Mitchell. No. 1,043,715; Nov. 5; Gaz. vol. 184; p. 236.
Car ladder, Railway-. D. R. MacBain. No. 1,043,614; Nov. 5; Gaz. vol. 184; p. 202.
Car, Ladle-. W. W. McKelvey. No. 1,021,543; Mar. 26; Sp. p. 5411; Gaz. vol. 176; p. 974.
Car, Ladle-. E. C. Sherman. No. 1,021,753; Mar. 26; Sp. p. 5816; Gaz. vol. 176; p. 1042.
Car, Ladle-. E. C. Sherman. No. 1,026,708; May 21; Sp. p. 3554; Gaz. vol. 178; p. 620.
Car lifting and replacing device. J. Wolfson. No. 1,026,337; May 14; Sp. p. 2756; Gaz. vol. 178; p. 460.
Car-lighting dynamos, Driving. O. Kennedy. No. 1,031,651; July 2; Gaz. vol. 180; p. 278.
Car loader, Mine-. A. Powell. No. 1,017,018; Feb. 13; Sp. p. 1745; Gaz. vol. 175; p. 304.
Car lock, Dump-. R. E. Cartzdafner. No. 1,034,418; Aug. 6; Gaz. vol. 181; p. 6.
Car, Logging-. C. W. Russell. No. 1,045,192; Nov. 26; Gaz. vol. 184; p. 836.
Car, Mine-. W. Lloyd. No. 1,047,894; Dec. 17; Gaz. vol. 185; p. 800.
Car, Mining-. L. G. Helmick. No. 1,048,309; Dec. 24; Gaz. vol. 185; p. 966.
Car, Monorail-. G. Sande. No. 1,035,243; Aug. 13; Gaz. vol. 181; p. 312.
Car, Monorail-. P. Barnes. No. 1,043,794; Nov. 12; Gaz. vol. 184; p. 294.
Car, Motor-. C. B. Stebbins. No. 1,032,633; July 16; Gaz. vol. 180; p. 699.
Car, Motor-. H. H. Kennedy. No. 1,034,464; Aug. 6; Gaz. vol. 181; p. 21.
Car, Motor-. C. B. Stebbins and W. S. Hovey. No. 1,042,495; Oct. 29; Gaz. vol. 183; p. 1083.
Car-mover. W. L. Chittum. No. 1,034,081; July 30; Gaz. vol. 180. p. 1254.
Car-mover. E. W. Hoover and J. A. Coleman. No. 1,035,966; Aug. 20; Gaz. vol. 181; p. 596.
Car-mover shoe. R. Miller. No. 1,037,960; Sept. 10; Gaz. vol. 182; p. 298.
Car or carriage for use with cycles or motor-cycles, Folding and detachable. H. Holt. No. 1,047,226; Dec. 17; Gaz. vol. 185; p. 565.
Car or other vehicle fender. H. W. Weiss. No. 1,022,905; Apr. 9; Sp. p. 2462; Gaz. vol. 177; p. 419.
Car or wagon, Dump. M. T. Bransfield. No. 1,032,271; July 9; Gaz. vol. 180; p. 532.
Car, Ore-. F. Seaberg. No. 1,035,389; Aug. 13; Gaz. vol. 181; p. 365.
Car, Passenger-. T. H. Tutwiler. No. 1,015,100; Jan. 16; Sp. p. 4462; Gaz. vol. 174; p. 751.
Car, Passenger-. L. E. Fischer. No. 1,016,683; Feb. 6; Sp. p. 1025; Gaz. vol. 175; p. 156.
Car, Passenger-. L. T. Gibbs. No. 1,031,060; July 2; Gaz. vol. 180; p. 76.
Car, Passenger-. S. M. Curwen and W. M. Smith. No. 1,032,884; July 16; Gaz. vol. 180; p. 785.
Car, Passenger-. W. Voss. No. 1,045,477; Nov. 26; Gaz. vol. 184; p. 937.
Car, Pay-as-you-enter. D. A. L. McDonald. No. 1,016,949; Feb. 13; Sp. p. 1598; Gaz. vol. 175; p. 282.
Car, Pay-as-you-enter. J. F. Ohmer. No. 1,019,011; Feb. 27; Sp. p. 6169; Gaz. vol. 175; p. 1059.
Car, Pay-as-you-enter. M. Rounds. No. 1,048,887; Dec. 31; Gaz. vol. 185; p. 1204.
Car placard-guard, Railway-. T. B. Hunt. No. 1,047,128; Dec. 10; Gaz. vol. 185; p. 500.
Car-platform. E. H. Schmidt. No. 1,019,725; Mar. 5; Sp. p. 1558; Gaz. vol. 176; p. 242.
Car platform-buffer, Railway-passenger-. T. L. McKeen. No. 1,029,938; June 18; Sp. p. 4088; Gaz. vol. 179; p. 709.
Car-platform buffing mechanism. C. T. Westlake and C. F. Frede. No. 1,046,696; Dec. 10; Gaz. vol. 185; p. 353.
Car-platform buffing mechanism. C. T. Westlake and C. F. Frede. No. 1,048,437; Dec. 24; Gaz. vol. 185; p. 1009.
Car-platform buffing mechanism. C. T. Westlake and C. F. Frede. No. 1,049,016; Dec. 31; Gaz. vol. 185; p. 1249.
Car-platform extension device. K. L. Elsner. No. 1,045,009; Nov. 19; Gaz. vol. 184; p. 745.
Car, Prepay-. F. P. Maize. No. 1,032,225; July 9; Gaz. vol. 180; p. 516.
Car, Railway-. E. Posson. No. 1,013,310; Jan. 2; Sp. p. 497; Gaz. vol. 174; p. 78.
Car, Railway-. C. T. Westlake. No. 1,023,905; Apr. 23; Sp. p. 4578; Gaz. vol. 177; p. 816.
Car, Railway-. B. Sato and Y. Saito. No. 1,027,071; May 21; Sp. p. 4418; Gaz. vol. 178; p. 747.
Car, Railway-. N. G. Vosler. No. 1,036,038; Aug. 20; Gaz. vol. 181; p. 620.
Car, Railway-. N. G. Vosler. No. 1,036,039; Aug. 20; Gaz. vol. 181; p. 621.
Car, Railway-. I. Pascal. No. 1,039,585; Sept. 24; Gaz. vol. 182; p. 906.
Car, Railway dump-. C. W. Russell. No. 1,028,283; June 4; Sp. p. 479; Gaz. vol. 179; p. 70.
Car, Railway freight-. L. E. Evens. No. 1,016,220; Jan. 30; Sp. p. 6828; Gaz. vol. 174; p. 1187.
Car, Railway freight-. E. M. Boynton. No. 1,042,527; Oct. 29; Gaz. vol. 183; p. 1094.
Car, Railway motor-. S. V. Meigs. No. 1,025,201; May 7; Sp. p. 203; Gaz. vol. 178; p. 34.
Car, Railway passenger-. H. McNulta. No. 1,035,216; Aug. 13; Gaz. vol. 181; p. 303.
Car-raising device. A. A. Nelson. No. 1,020,217; Mar. 12; Sp. p. 2588; Gaz. vol. 176; p. 439.
Car, Rapid-transit. J. B. Barnett. No. 1,030,274; June 25; Sp. p. 4812; Gaz. vol. 179; p. 862.
Car-replacer. E. M. Taylor. No. 1,015,098; Jan. 16; Sp. p. 4458; Gaz. vol. 174; p. 750.
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Alphabetical list of inventions—Continued.

Car-replacer. W. H. Morris, A. Gruneisen, and F. Hoppé. No. 1,029,394; June 11; Sp. p. 2901; Gaz. vol. 179; p. 484.
Car-replacer. S. Wheeler. No. 1,032,523; July 16; Gaz. vol. 180; p. 661.
Car-replacer. J. Brown. No. 1,035,312; Aug. 13; Gaz. vol. 181; p. 337.
Car-replacer. A. P. Holiday. No. 1,035,704; Aug. 13; Gaz. vol. 181; p. 470.
Car-replacer. J. A. Foster. No. 1,044,767; Nov. 19; Gaz. vol. 184; p. 662.
Car-replacer. S. Wheeler. No. 1,046,919; Dec. 10; Gaz. vol. 185; p. 429.
Car-replacer, Reversible. A. N. Johnson. No. 1,040,206; Oct. 1; Gaz. vol. 183; p. 180.
Car-rerailer. W. H. Allen. No. 1,024,049; Apr. 23; Sp. p. 4889; Gaz. vol. 177; p. 866.
Car-rerailing frog. C. H. Gambill. No. 1,035,957; Aug. 20; Gaz. vol. 181; p. 594.
Car-roof. J. Pearson. No. 1,013,811; Jan. 2; Sp. p. 1574; Gaz. vol. 174; p. 251.
Car-roof. E. Posson. No. 1,015,340; Jan. 23; Sp. p. 4977; Gaz. vol. 174; p. 859.
Car-roof. J. H. Weisbrod. No. 1,023,230; Apr. 16; Sp. p. 3181; Gaz. vol. 177; p. 569.
Car-roof. W. D. Thompson. No. 1,025,031; Apr. 30; Sp. p. 7055; Gaz. vol. 177; p. 1240.
Car-roof. W. P. Bettendorf. No. 1,026,899; May 21; Sp. p. 3988; Gaz. vol. 178; p. 686.
Car-roof. H. Pries. No. 1,027,503; May 28; Sp. p. 5307; Gaz. vol. 178; p. 930.
Car-roof. W. P. Murphy. No. 1,030,599; June 25; Sp. p. 5656; Gaz. vol. 179; p. 980.
Car-roof. W. P. Murphy. No. 1,030,600; June 25; Sp. p. 5658; Gaz. vol. 179; p. 980.
Car-roof. W. P. Murphy. No. 1,030,601; June 25; Sp. p. 5660; Gaz. vol. 179; p. 981.
Car-roof. W. P. Murphy. No. 1,030,602; June 25; Sp. p. 5664; Gaz. vol. 179; p. 981.
Car-roof. R. E. Frame. No. 1,037,230; Sept. 3; Gaz. vol. 182; p. 18.
Car-roof. J. J. Hoffman. No. 1,039,401; Sept. 24; Gaz. vol. 182; p. 841.
Car-roof. J. Pearson. (Reissue.) No. 13,471; Oct. 1; Gaz. vol. 183; p. 200.
Car-roof. W. S. Bidle and J. A. Costello. No. 1,044,732; Nov. 19; Gaz. vol. 184; p. 648.
Car-roof construction. J. J. Kelleher and C. D. Porter. No. 1,022,091; Apr. 2; Sp. p. 719; Gaz. vol. 177; p. 115.
Car-roof construction. E. Posson. No. 1,026,698; May 21; Sp. p. 3536; Gaz. vol. 178; p. 616.
Car-roof construction. J. J. Kelleher and C. D. Porter. No. 1,047,949; Dec. 24; Gaz. vol. 185; p. 847.
Car-roof construction. W. S. Bidle and J. A. Costello. No. 1,049,041; Dec. 31; Gaz. vol. 185; p. 1258.
Car-roof door. E. Posson. No. 1,015,397; Jan. 23; Sp. p. 5096; Gaz. vol. 174; p. 878.
Car-roof frame. E. Posson. No. 1,025,996; May 14; Sp. p. 1978; Gaz. vol. 178; p. 341.
Car-roof frame. J. A. Costello. No. 1,033,549; July 23; Gaz. vol. 180; p. 1046.
Car-roof frames, Carline for. J. A. Costello. No. 1,033,548; July 23; Gaz. vol. 180; p. 1045.
Car-roof, Metal. W. P. Murphy. No. 1,030,603; June 25; Sp. p. 5667; Gaz. vol. 179; p. 982.
Car-roof, Outside metal. J. J. Hoffman. No. 1,039,400; Sept. 24; Gaz. vol. 182; p. 840.
Car-roofs, Carline for. W. S. Bidle and J. A. Costello. No. 1,044,733; Nov. 19; Gaz. vol. 184; p. 649.
Car running-board, Automatic. J. Armstrong. No. 1,016,926; Feb. 13; Sp. p. 1534; Gaz. vol. 175; p. 273.
Car running-board, Freight-. W. E. Fowler, Jr. No. 1,019,627; Mar. 5; Sp. p. 1376; Gaz. vol. 176; p. 210.
Car running-gear, Railway-. A. R. Angus. No. 1,033,294; July 23; Gaz. vol. 180; p. 963.
Car safety air-brake appliance, Railway-. J. A. Gyllenberg. No. 1,024,331; Apr. 23; Sp. p. 5496; Gaz. vol. 177; p. 963.
Car safety appliance, Tramway-. J. E. Schoolfield. No. 1,021,752; Mar. 26; Sp. p. 5811; Gaz. vol. 176; p. 1042.
Car safety-stop, Mine-. H. H. Herbold and C. Hegner. No. 1,019,249; Mar. 5; Sp. p. 533; Gaz. vol. 176; p. 85.
Car sanding device, Motor-. G. F. A. McDougall. No. 1,046,623; Dec. 10; Gaz. vol. 185; p. 326.
Car screen, Coal-. G. Huettel. No. 1,036,849; Aug. 27; Gaz. vol. 181; p. 933.
Car-seat. S. A. Walker and F. Bennett. No. 1,044,607; Nov. 19; Gaz. vol. 184; p. 605.
Car-seat arm-rest. F. J. Leigh. No. 1,022,632; Apr. 9; Sp. p. 1857; Gaz. vol. 177; p. 325.
Car seat, Motor-. L. Wilkening. No. 1,025,038; Apr. 30; Sp. p. 7069; Gaz. vol. 177; p. 1242.
Car seats, Pedestal-support for railway-. W. J. Bennett. No. 1,023,294; Apr. 16; Sp. p. 3313; Gaz. vol. 177; p. 592.
Car side bearing. P. E. M. Norell. No. 1,037,511; Sept. 3; Gaz. vol. 182; p. 114.
Car side bearing, Railway-. G. P. Snead. No. 1,043,037; Oct. 29; Gaz. vol. 183; p. 1271.
Car, Side-dump. R. P. McCormick, Jr. No. 1,014,077; Jan. 9; Sp. p. 2208; Gaz. vol. 174; p. 370.
Car, Side-dump. H. J. Wessinger. No. 1,038,045; Sept. 10; Gaz. vol. 182; p. 325.
Car signal device. J. L. Scudder. No. 1,041,890; Oct. 22; Gaz. vol. 183; p. 853.
Car-signal, Electric. E. B. Chapman. No. 1,026,906; May 21; Sp. p. 4008; Gaz. vol. 178; p. 688.
Car signal, Street-. A. O. Nichols. No. 1,047,110; Dec. 10; Gaz. vol. 185; p. 492.
Car, Sleeping-. F. Brackett. No. 1,048,131; Dec. 24; Gaz. vol. 185; p. 907.
Car-stake. W. J. Moloney. No. 1,022,105; Apr. 2; Sp. p. 744; Gaz. vol. 177; p. 119.
Car-stake. J. W. Silfberg. No. 1,034,935; Aug. 6; Gaz. vol. 181; p. 179.
Car stake and bunk, Combined. W. Houghton. No. 1,022,084; Apr. 2; Sp. p. 702; Gaz. vol. 177; p. 112.
Car-stake and pocket. C. H. Vandonk. No. 1,024,608; Apr. 30; Sp. p. 6192; Gaz. vol. 177; p. 1092.
Car-stake fastener. O. F. Reeves. No. 1,047,291; Dec. 17; Gaz. vol. 185; p. 589.
Car-stake holder. C. E. Baldwin. No. 1,028,836; June 4; Sp. p. 1649; Gaz. vol. 179; p. 257.
Car-starter. C. X. Johnson. No. 1,022,089; Apr. 2; Sp. p. 717; Gaz. vol. 177; p. 114.
Car-starting device. J. C. Smith. No. 1,046,342; Dec. 3; Gaz. vol. 185; p. 189.
Car, Steel box-. V. M. Summa. No. 1,021,170; Mar. 26; Sp. p. 4597; Gaz. vol. 176; p. 844.
Car-step. J. S. Blake. No. 1,020,254; Mar. 12; Sp. p. 2656; Gaz. vol. 176; p. 451.
Car-step. J. Jackson. No. 1,021,046; Mar. 26; Sp. p. 4337; Gaz. vol. 176; p. 805.
Car-step. W. J. Oliver. No. 1,021,625; Mar. 26; Sp. p. 5565; Gaz. vol. 176; p. 1000.
Car-step. F. L. Desens and W. H. Hodge. No. 1,042,895; Oct. 29; Gaz. vol. 183; p. 1222.
Car-step. C. G. Duffy and J. R. Whited. No. 1,043,215; Nov. 5; Gaz. vol. 184; p. 61.
Car-step, Adjustable. F. J. Haas. No. 1,037,475; Sept. 3; Gaz. vol. 182; p. 102.
Car-step, Extensible. E. G. Uhl. No. 1,016,800; Feb. 6; Sp. p. 1268; Gaz. vol. 175; p. 195.
Car-step, Extension. W. G. Walton. No. 1,014,544; Jan. 9; Sp. p. 3174; Gaz. vol. 174; p. 529.
Car-step, Extension. E. S. Mitchell and G. A. Campbell. No. 1,033,029; July 16; Gaz. vol. 180; p. 833.
Car-step, Folding. G. Kapp and B. S. Hyatt. No. 1,030,409; June 25; Sp. p. 5115; Gaz. vol. 179; p. 912.
Car-step, Folding. C. F. Rice. No. 1,046,332; Dec. 3; Gaz. vol. 185; p. 186.
Car-step guard, Passenger-. H. Houson. No. 1,032,832; July 16; Gaz. vol. 180; p. 768.
Car stop, Street-. B. MacDonald and W. Thomas. No. 1,018,842; Feb. 27; Sp. p. 5795; Gaz. vol. 175; p. 1001.
Car-stopper, Automatic. C. A. Straw. No. 1,046,345; Dec. 3; Gaz. vol. 185; p. 190.
Car-stopping device. R. Maw. No. 1,015,628; Jan. 23; Sp. p. 5594; Gaz. vol. 174; p. 958.
Car, Street-. C. C. Crewson. No. 1,013,376; Jan. 2; Sp. p. 632; Gaz. vol. 174; p. 100.
Car, Street-. A. H. Bates. No. 1,020,017; Mar. 12; Sp. p. 2154; Gaz. vol. 176; p. 371.
Car street-indicator. H. Wilms. No. 1,015,111; Jan. 16; Sp. p. 4484; Gaz. vol. 174; p. 755.
Car street-indicator. H. O. Brion. No. 1,025,780; May 7; Sp. p. 1470; Gaz. vol. 178; p. 232.
Car street-indicator. P. M. Gulbrantson. No. 1,026,980; May 21; Sp. p. 4184; Gaz. vol. 178; p. 714.
Car structure. V. M. Summa. No. 1,029,091; June 11; Sp. p. 2226; Gaz. vol. 179; p. 380.
Car support, Motor-. C. W. Schubert. No. 1,037,336; Sept. 3; Gaz. vol. 182; p. 52.
Car switch, Electric-. L. Radcliff and E. E. Kilby. No. 1,027,898; May 28; Sp. p. 6195; Gaz. vol. 178; p. 1062.
Car, Tank-. C. A. Lindström. No. 1,020,765; Mar. 19; Sp. p. 3755; Gaz. vol. 176; p. 658.
Car, Tank-. C. A. Shoemaker. No. 1,026,710; May 21; Sp. p. 3556; Gaz. vol. 178; p. 621.
Car, Tank-. A. Becker. No. 1,028,181; June 4; Sp. p. 285; Gaz. vol. 179; p. 36.
Car, Tank-. J. E. Tesseyman. No. 1,043,550; Nov. 5; Gaz. vol. 184; p. 181.
Car track-scraper, Street-railway-. G. W. Clark. No. 1,033,539; July 23; Gaz. vol. 180; p. 1042.
Car-transferring means. C. A. Baechtold. No. 1,013,106; Jan. 2; Sp. p. 18; Gaz. vol. 174; p. 6.
Car, Transportation-. E. D. Hillman. No. 1,035,439; Aug. 13; Gaz. vol. 181; p. 382.
Car-uncoupling mechanism. R. W. Burnett. No. 1,022,579; Apr. 9; Sp. p. 1741; Gaz. vol. 177; p. 307.
Car-underframe. B. Magor. No. 1,016,165; Jan. 30; Sp. p. 6726; Gaz. vol. 174; p. 1169.
Car-underframe. H. W. Wolff. No. 1,021,123; Mar. 26; Sp. p. 4484; Gaz. vol. 176; p. 828.
Car-underframe. H. W. Wolff. No. 1,021,124; Mar. 26; Sp. p. 4487; Gaz. vol. 176; p. 829.
Car-underframe. V. M. Summa. No. 1,021,168; Mar. 26; Sp. p. 4591; Gaz. vol. 176; p. 843.

Alphabetical list of inventions—Continued.

Car-underframe. V. M. Summa. No. 1,021,169; Mar. 26; Sp. p. 4594; Gaz. vol. 176; p. 844.
Car-underframe. H. M. Pflager. No. 1,021,375; Mar. 26; Sp. p. 5009; Gaz. vol. 176; p. 914.
Car-underframe. J. H. Weisbrod. No. 1,021,856; Apr. 2; Sp. p. 227; Gaz. vol. 177; p. 37.
Car-underframe. V. M. Summa. No. 1,022,710; Apr. 9; Sp. p. 2063; Gaz. vol. 177; p. 355.
Car-underframe. C. T. Westlake. No. 1,023,486; Apr. 16; Sp. p. 3690; Gaz. vol. 177; p. 653.
Car-underframe. R. E. Frame. No. 1,029,115; June 11; Sp. p. 2272; Gaz. vol. 179; p. 388.
Car-underframe. C. T. Westlake and C. F. Frede. No. 1,030,360; June 25; Sp. p. 5017; Gaz. vol. 179; p. 895.
Car-underframe. C. T. Westlake and C. F. Frede. No. 1,030,755; June 25; Sp. p. 6093; Gaz. vol. 179; p. 1036.
Car-underframe. W. P. Bettendorf. No. 1,035,848; Aug. 20; Gaz. vol. 181; p. 557.
Car-underframe. A. E. Ostrander. No. 1,042,469; Oct. 29; Gaz. vol. 183; p. 1073.
Car-underframe. R. E. Frame and F. H. Gibbs. No. 1,045,387; Nov. 26; Gaz. vol. 184; p. 903.
Car-underframe. A. J. McCauley. No. 1,046,826; Dec. 10; Gaz. vol. 185; p. 397.
Car-underframe, Cast-steel. C. H. Howard. No. 1,022,366; Apr. 2; Sp. p. 1277; Gaz. vol. 177; p. 205.
Car underframe, Dumping-. W. P. Bettendorf. No. 1,039,638; Sept. 24; Gaz. vol. 182; p. 924.
Car underframe, Passenger-. W. Voss. No. 1,014,791; Jan. 16; Sp. p. 3789; Gaz. vol. 174; p. 644.
Car underframe, Railway-. E. Posson. No. 1,037,049; Aug. 27; Gaz. vol. 181; p. 1000.
Car underframe, Railway-. C. T. Westlake and C. F. Frede. No. 1,047,901; Dec. 17; Gaz. vol. 185; p. 802.
Car-underframes, Universal side bearing for. C. T. Westlake and C. F. Freda. No. 1,033,644; July 23; Gaz. vol. 180; p. 1077.
Car-unloader. E. V. Richards. No. 1,027,669; May 28; Sp. p. 5643; Gaz. vol. 178; p. 984.
Car-unloading device. R. H. Moore. No. 1,028,768; June 4; Sp. p. 1506; Gaz. vol. 179; p. 234.
Car-unloading shovel. R. Hollingsworth. No. 1,038,585; Sept. 17; Gaz. vol. 182; p. 543.
Car valve-operating mechanism, Dumping-. J. M. Goodwin. No. 1,027,198; May 21; Sp. p. 4686; Gaz. vol. 178; p. 787.
Car-ventilating system. D. I. Cooke. No. 1,024,438; Apr. 23; Sp. p. 5725; Gaz. vol. 177; p. 997.
Car-ventilating system, Sleeping-. D. I. Cooke. No. 1,024,439; Apr. 23; Sp. p. 5727; Gaz. vol. 177; p. 997.
Car-ventilator. G. L. Allen. No. 1,022,918; Apr. 9; Sp. p. 2488; Gaz. vol. 177; p. 424.
Car-ventilator. J. T. Mercier. No. 1,033,918; July 30; Gaz. vol. 180; p. 1196.
Car-ventilator. L. A. Kling. No. 1,046,309; Dec. 3; Gaz. vol. 185; p. 178.
Car-ventilator. L. A. Kling. No. 1,046,310; Dec. 3; Gaz. vol. 185; p. 179.
Car-vestibule diaphragms, Spring device for. F. G. Fowler. No. 1,019,777; Mar. 12; Sp. p. 1668; Gaz. vol. 176; p. 291.
Car vestibule door and trap, Railway-. W. H. Carroll. No. 1,044,487; Nov. 19; Gaz. vol. 184; p. 563.
Car-wall construction, Box-. J. H. Weisbrod. No. 1,047,597; Dec. 17; Gaz. vol. 185; p. 698.
Car warning-signal, Street-. F. A. Pfannenschmidt. No. 1,034,730; Aug. 6; Gaz. vol. 181; p. 110.
Car-wheel. C. E. Pritchard and G. T. Potter. No. 1,013,513; Jan. 2; Sp. p. 922; Gaz. vol. 174; p. 148.
Car-wheel. F. Lindblad. No. 1,023,574; Apr. 16; Sp. p. 3873; Gaz. vol. 177; p. 682.
Car-wheel. T. D. Dershimer. No. 1,043,757; Nov. 5; Gaz. vol. 184; p. 250.
Car-wheel. W. C. Schade. No. 1,045,893; Dec. 3; Gaz. vol. 185; p. 33.
Car-wheel. S. P. Bush. No. 1,047,380; Dec. 17; Gaz. vol. 185; p. 620.
Car-wheel clamp. W. E. Irons. No. 1,016,154; Jan. 30; Sp. p. 6707; Gaz. vol. 174; p. 1165.
Car wheel, Mine-. J. S. Skelly. No. 1,015,351; Jan. 23; Sp. p. 4998; Gaz. vol. 174; p. 863.
Car wheel, Mine-. R. F. Phillips and L. J. McCloskey. No. 1,026,454; May 14; Sp. p. 3016; Gaz. vol. 178; p. 497.
Car-wheel mold and making car-wheels. F. K. Vial. No. 1,015,362; Jan. 23; Sp. p. 5017; Gaz. vol. 174; p. 867.
Car-wheel, Non-annealed. E. A. Custer. No. 1,022,723; Apr. 9; Sp. p. 2092; Gaz. vol. 177; p. 359.
Car-wheel, Self-oiling. J. W. Baker, W. O. Blowers, and W. H. Bines. No. 1,035,074; Aug. 6; Gaz. vol. 181; p. 223.
Car-wheel slide-shoe. J. R. Fleming. No. 1,042,900; Oct. 29; Gaz. vol. 183; p. 1224.
Car-wheels and similar metal articles, Apparatus for finishing. E. E. Slick. No. 1,029,642; June 18; Sp. p. 3403; Gaz. vol. 179; p. 606.
Car-wheels, Making. S. P. Bush. No. 1,047,378; Dec. 17; Gaz. vol. 185; p. 620.
Car-wheels, Making. S. P. Bush. No. 1,047,379; Dec. 17; Gaz. vol. 185; p. 620.
Car-wheels, Making carbon-steel. W. S. Potter. No. 1,018,365; Feb. 20; Sp. p. 4692; Gaz. vol. 175; p. 805.
Car-wheels, Making wrought manganese-steel. W. S. Potter. No. 1,018,364; Feb. 20; Sp. p. 4688; Gaz. vol. 175; p. 805.
Car-wheels, Treating. R. C. Totten. No. 1,016,457; Feb. 6; Sp. p. 506; Gaz. vol. 175; p. 78.
Car-window. A. H. Newpher. No. 1,025,640; May 7; Sp. p. 1200; Gaz. vol. 178; p. 184.
Car-window. A. H. Newpher. No. 1,031,575; July 2; Gaz. vol. 180; p. 252.
Car-window cleaner, Street-. E. F. Cunningham. No. 1,043,073; Nov. 5; Gaz. vol. 184; p. 8.
Car-window screen. E. W. Kolb. No. 1,042,123; Oct. 22; Gaz. vol. 183; p. 928.
Car-window screen. C. G. Morgner. No. 1,047,828; Dec. 17; Gaz. vol. 185; p. 777.
Car-window shield, Railway-. J. A. Ward. No. 1,021,646; Mar. 26; Sp. p. 5602; Gaz. vol. 176; p. 1007.
Cars, Advertising device for railway-. F. Wolf. No. 1,031,899; July 9; Gaz. vol. 180; p. 407.
Cars and other conveyances, Appliance for railway-. H. T. Cronk. No. 1,021,663; Mar. 26; Sp. p. 5626; Gaz. vol. 176; p. 1012.
Cars and other vehicles, Detachable and divisible rim for motor-. J. Ashton. No. 1,041,567; Oct. 15; Gaz. vol. 183; p. 703.
Cars and other vehicles, Upholstering motor-. M. A. Buch. No. 1,035,528; Aug. 13; Gaz. vol. 181; p. 412.
Cars and similar vehicles, Roller-skid for railway-. H. Windhoff. No. 1,014,197; Jan. 9; Sp. p. 2451; Gaz. vol. 174; p. 412.
Cars and the like, Brake-pipe for railway-. E. Witzenmann. No. 1,044,962; Nov. 19; Gaz. vol. 184; p. 728.
Cars and the like, Destination-board for tram-. J. S. Wearn. No. 1,044,715; Nov. 19; Gaz. vol. 184; p. 645.
Cars and the like, Dumping-lever for ore-. P. R. Stanhope. No. 1,038,674; Sept. 17; Gaz. vol. 182; p. 574.
Cars, Angle-cock hanger for air-brake pipes of railway-. R. W. Burnett. No. 1,031,835; July 9; Gaz. vol. 180; p. 385.
Cars, Angle-cock holder for railway-. S. H. Campbell. No. 1,031,419; July 2; Gaz. vol. 180; p. 200.
Cars, Antitelescoping device for railway-. J. S. Thompson. No. 1,024,164; Apr. 23; Sp. p. 5154; Gaz. vol. 177; p. 905.
Cars, Basket for passenger-. O. J. Mennenga. No. 1,039,310; Sept. 24; Gaz. vol. 182; p. 810.
Cars, Card and tag holder for. P. S. Hamilton. No. 1,032,137; July 9; Gaz. vol. 180; p. 485.
Cars, &c., Collapsible and extensible roof for open-top railway-. W. R. Davis and J. J. Kain. No. 1,015,146; Jan. 16; Sp. p. 4544; Gaz. vol. 174; p. 767.
Cars, Controlling system for motor-traction. W. C. Mayo. No. 1,022,324; Apr. 2; Sp. p. 1188; Gaz. vol. 177; p. 191.
Cars, Cooler for hot boxes for railway-. E. S. Hammond. No. 1,025,947; May 7; Sp. p. 1876; Gaz. vol. 178; p. 288.
Cars, Danger-signal for electric. J. Anderson, Jr. No. 1,032,102; July 9; Gaz. vol. 180; p. 474.
Cars, &c., Door for grain-. E. E. Josef. No. 1,047,947; Dec. 24; Gaz. vol. 185; p. 846.
Cars, &c., Door mechanism for hopper-. J. Pearson. No. 1,030,204; June 18; Sp. p. 4648; Gaz. vol. 179; p. 799.
Cars, Elastic suspension device for motor-. F. Pagliano. No. 1,034,497; Aug. 6; Gaz. vol. 181; p. 33.
Cars, Electric wiring for railway-. M. M. Schneider. No. 1,042,608; Oct. 29; Gaz. vol. 183; p. 1122.
Cars, Foldable shoe for third-rail electric. L. A. McCoubrie and C. F. Raydure. No. 1,045,581; Nov. 26; Gaz. vol. 184; p. 974.
Cars, Friction draft-rigging for railway-. J. F. O'Connor. No. 1,044,076; Nov. 12; Gaz. vol. 184; p. 393.
Cars, Hopper-seat for passenger-. F. Zeleny and A. H. Ostberg. No. 1,045,927; Dec. 3; Gaz. vol. 185; p. 45.
Cars, Life-guard for railway-. G. A. Parmenter. No. 1,014,667; Jan. 16; Sp. p. 3515; Gaz. vol. 174; p. 602.
Cars, Means for cushioning the bodies of railway-. W. P. Bettendorf. No. 1,035,847; Aug. 20; Gaz. vol. 181; p. 556.
Cars or the like, Guard or fender for street-. W. Fonger. No. 1,023,464; Apr. 16; Sp. p. 3642; Gaz. vol. 177; p. 646.
Cars or vehicles along a railway and the control thereof, Apparatus for governing the passage of. J. S. Holliday. No. 1,014,966; Jan. 16; Sp. p. 4188; Gaz. vol. 174; p. 705.
Cars, Pneumatic cut-off for dump-. J. M. Wilcox. No. 1,029,247; June 11; Sp. p. 2553; Gaz. vol. 179; p. 432.
Cars, Register for pay-as-you-enter. S. Bacsardi. No. 1,040,115; Oct. 1; Gaz. vol. 183; p. 149.
Cars, Removable and interchangeable unit for freight-. H. W. Kirchner. No. 1,026,752; May 21; Sp. p. 3647; Gaz. vol. 178; p. 634.
Cars, Sectional door for grain-. R. S. Taylor and G. W. Woodruff. No. 1,013,237; Jan. 2; Sp. p. 325; Gaz. vol. 174; p. 52.
Cars, Shoe for third-rail electric. L. A. McCoubrie and C. F. Raydure. No. 1,021,420; Mar. 26; Sp. p. 5150; Gaz. vol. 176; p. 932.

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Cars, Speed-indicating equipment for railway-. A. B. Cadman. No. 1,037,862; Sept. 10; Gaz. vol. 182; p. 261.
Cars, Speed-measuring equipment for railway or other. A. P. Warner and A. B. Cadman. No. 1,038,509; Sept. 10; Gaz. vol. 182; p. 483.
Cars, Steel underframe for box-. V. M. Summa. No. 1,021,852; Apr. 2; Sp. p. 213; Gaz. vol. 177; p. 36.
Cars, Tandem-spring draft-rigging for railway-. J. F. O'Connor. No. 1,044,075; Nov. 12; Gaz. vol. 184; p. 392.
Cars, Valve for bottom-dump. M. J. Owens. No. 1,026,824; May 21; Sp. p. 3807; Gaz. vol. 178; p. 659.
Cars, Vent for acid or other tank-. E. H. Wolff. No. 1,032,170; July 9; Gaz. vol. 180; p. 497.
Cars, Vent for tank-. C. R. Harris. No. 1,047,517; Dec. 17; Gaz. vol. 185; p. 669.
Carafe and stopper. A. Heinemann. No. 1,024,894; Apr. 30; Sp. p. 6788; Gaz. vol. 177; p. 1193.
Caramel-mold. W. H. Farrell. No. 1,016,130; Jan. 30; Sp. p. 6667; Gaz. vol. 174; p. 1159.
Carbid-feeder. E. Miller. No. 1,026,594; May 14; Sp. p. 3284; Gaz. vol. 178; p. 543.
Carbid-receptacle, Reserve. E. Miller. No. 1,038,932; Sept. 17; Gaz. vol. 182; p. 664.
Carbon article. C. A. Hansen. No. 1,037,901; Sept. 10; Gaz. vol. 182; p. 276.
Carbon articles, Treating. E. C. Sprague and A. M. Williamson. No. 1,030,620; June 25; Sp. p. 5745; Gaz. vol. 179; p. 989.
Carbon-black, Apparatus for producing. J. A. Snee. No. 1,036,363; Aug. 20; Gaz. vol. 181; p. 737.
Carbon-black, Producing. J. A. Snee. No. 1,036,362; Aug. 20; Gaz. vol. 181; p. 737.
Carbon dioxid, Apparatus for making solid. H. P. Julius. No. 1,018,568; Feb. 27; Sp. p. 5231; Gaz. vol. 175; p. 909.
Carbon-dioxid engine. C. A. Anderson. No. 1,037,190; Sept. 3; Gaz. vol. 182; p. 4.
Carbon dioxid, Making. H. B. Hunter. No. 1,044,531; Nov. 19; Gaz. vol. 184; p. 578.
Carbon, Removing. W. W. Johnston. No. 1,034,713; Aug. 6; Gaz. vol. 181; p. 104.
Carbon-sheet. I. H. Mallin. No. 1,032,918; July 16; Gaz. vol. 180; p. 796.
Carbon, Treating. W. A. Smith. No. 1,032,246; July 9; Gaz. vol. 180; p. 524.
Carbonating and dispensing apparatus, Liquid. G. L. Kennedy. No. 1,029,196; June 11; Sp. p. 2434; Gaz. vol. 179; p. 415.
Carbonating apparatus. H. M. Smith. No. 1,026,715; May 21; Sp. p. 2570; Gaz. vol. 178; p. 622.
Carbonating apparatus. A. L. Koenig. No. 1,028,365; June 4; Sp. p. 663; Gaz. vol. 179; p. 100.
Carbonating apparatus, Liquid-. R. Mueller. No. 1,043,127; Nov. 5; Gaz. vol. 184; p. 28.
Carbonator. A. E. Shattuck. No. 1,029,236; June 11; Sp. p. 2532; Gaz. vol. 179; p. 429.
Carbonator. F. M. Thomas. No. 1,030,851; June 25; Sp. p. 6441; Gaz. vol. 179; p. 1073.
Carbonizing furnace, Downdraft smoke-. J. W. Foley. No. 1,019,624; Mar. 5; Sp. p. 1368; Gaz. vol. 176; p. 208.
Carborundum-dresser. A. C. Champagne and J. N. Brahn. No. 1,026,494; May 14; Sp. p. 3096; Gaz. vol. 178; p. 511.
Carbosilicon. H. N. Potter. No. 1,030,327; June 25; Sp. p. 4948; Gaz. vol. 179; p. 882.
Carboy-rocker. S. C. Catlin. No. 1,048,493; Dec. 31; Gaz. vol. 185; p. 1067.
Carboy-support, Folding. C. H. Sherwood. No. 1,022,886; Apr. 9; Sp. p. 2415; Gaz. vol. 177; p. 412.
Carbureter. A. Weiland. No. 1,013,708; Jan. 2; Sp. p. 1366; Gaz. vol. 174; p. 213.
Carbureter. R. M. Roberts. No. 1,013,955; Jan. 9; Sp. p. 1943; Gaz. vol. 174; p. 329.
Carbureter. P. M. Blom. No. 1,013,983; Jan. 9; Sp. p. 2001; Gaz. vol. 174; p. 339.
Carbureter. O. Ducker. No. 1,014,133; Jan. 9; Sp. p. 2329; Gaz. vol. 174; p. 389.
Carbureter. W. R. Voorhees. No. 1,014,188; Jan. 9; Sp. p. 2429; Gaz. vol. 174; p. 408.
Carbureter. A. Winton. No. 1,014,551; Jan. 9; Sp. p. 3186; Gaz. vol. 174; p. 531.
Carbureter. C. G. Weld. No. 1,014,682; Jan. 16; Sp. p. 3558; Gaz. vol. 174; p. 609.
Carbureter. F. D. Winkley. No. 1,014,988; Jan. 16; Sp. p. 4238; Gaz. vol. 174; p. 713.
Carbureter. W. J. Steinbrenner. No. 1,016,108; Jan. 30; Sp. p. 6626; Gaz. vol. 174; p. 1152.
Carbureter. W. G. Nagel. No. 1,016,169; Jan. 30; Sp. p. 6731; Gaz. vol. 174; p. 1170.
Carbureter. J. M. Dayton. No. 1,016,251; Feb. 6; Sp. p. 17; Gaz. vol. 175; p. 5.
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Carbureter. W. F. Schulz. No. 1,020,059; Mar. 12; Sp. p. 2235; Gaz. vol. 176; p. 385.
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Carbureter. W. C. Westaway. No. 1,049,318; Dec. 31; Gaz. vol. 185; p. 1352.
Carbureter-adjusting device. H. S. Echternach. No. 1,029,111; June 11; Sp. p. 2263; Gaz. vol. 179; p. 387.
Carbureter attachment. H. A. Miller. No. 1,014,319; Jan. 9; Sp. p. 2728; Gaz. vol. 174; p. 454.
Carbureter attachment. J. B. Lund. No. 1,017,572; Feb. 13; Sp. p. 2939; Gaz. vol. 175; p. 497.
Carbureter attachment. H. E. Rogers. No. 1,023,397; Apr. 16; Sp. p. 3516; Gaz. vol. 177; p. 626.
Carbureter attachment. A. De Clairmont. No. 1,033,386; July 23; Gaz. vol. 180; p. 994.
Carbureter feed-nozzle. D. Barnard. No. 1,014,202; Jan. 9; Sp. p. 2456; Gaz. vol. 174; p. 413.
Carbureter-feeder. A. A. Steward. No. 1,042,835; Oct. 29; Gaz. vol. 183; p. 1201.
Carbureter, Float-feed. E. P. Lamb. No. 1,020,915; Mar. 19; Sp. p. 4048; Gaz. vol. 176; p. 707.
Carbureter for gas-engines. M. and C. E. Musgrave. No. 1,043,342; Nov. 5; Gaz. vol. 184; p. 106.
Carbureter for internal-combustion engines. H. A. Neal. No. 1,018,262; Feb. 20; Sp. p. 4495; Gaz. vol. 175; p. 772.
Carbureter for internal-combustion engines. T. Welsh. No. 1,019,209; Mar. 5; Sp. p. 447; Gaz. vol. 176; p. 71.
Carbureter for internal-combustion engines. W. W. Hamill. No. 1,020,198; Mar. 12; Sp. p. 2545; Gaz. vol. 176; p. 432.
Carbureter for internal-combustion engines. G. Constantinescu. No. 1,021,039; Mar. 26; Sp. p. 4320; Gaz. vol. 176; p. 802.
Carbureter for internal-combustion engines. W. Barstow and S. K. Bradford. No. 1,049,038; Dec. 31; Gaz. vol. 185; p. 1257.
Carbureter for internal-combustion motors. W. Grinewezki. No. 1,028,713; June 4; Sp. p. 1384; Gaz. vol. 179; p. 215.
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Carbureter-heater. B. N. Pierce. No. 1,032,937; July 16; Gaz. vol. 180; p. 802.
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Carbureters, Automatic regulation for. E. P. Noyes. No. 1,037,833; Sept. 3; Gaz. vol. 182; p. 218.
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Carbureters, Throttle for. A. C. Stewart. No. 1,029,899; June 18; Sp. p. 4000; Gaz. vol. 179; p. 696.
Carbureters, Valve mechanism for. W. S. Guthrie. No. 1,029,606; June 18; Sp. p. 3331; Gaz. vol. 179; p. 593.
Carbureting air. R. C. Dawson. No. 1,019,430; Mar. 5; Sp. p. 986; Gaz. vol. 176; p. 144.
Carbureting apparatus. R. P. Doudney. No. 1,019,309; Mar. 5; Sp. p. 681; Gaz. vol. 176; p. 106.
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Carbureting apparatus for explosive-engines. M. Beck. No. 1,029,740; June 18; Sp. p. 3638; Gaz. vol. 179; p. 641.
Carbureting device. I. Lavender. No. 1,048,083; Dec. 24; Gaz. vol. 185; p. 891.
Carbureting device for heavy fuels. A. C. Stewart. No. 1,017,186; Feb. 13; Sp. p. 2129; Gaz. vol. 175; p. 364.
Carcass-splitting device. A. Karhan. No. 1,028,468; June 4; Sp. p. 892; Gaz. vol. 179; p. 134.
Carcass-splitting machine. W. A. Saunders. No. 1,015,590; Jan. 23; Sp. p. 5521; Gaz. vol. 174; p. 945.
Carcasses, slaughter-house waste, &c., Apparatus for the treatment of. A. Sommermeyer. No. 1,046,402; Dec. 3; Gaz. vol. 185; p. 211.
Card business system. L. S. Antisdel. No. 1,022,170; Apr. 2; Sp. p. 888; Gaz. vol. 177; p. 141.
Card, Coin-holding. F. K. Arnold. No. 1,034,564; Aug. 6; Gaz. vol. 181; p. 55.
Card, Folding. F. D. Chase, Jr. No. 1,045,257; Nov. 26; Gaz. vol. 184; p. 860.
Card for clothes, Reinforcing and shape-keeping. S. D. Gilkerson. No. 1,021,593; Mar. 26; Sp. p. 5519; Gaz. vol. 176; p. 991.
Card, Hand-. A. Kern. No. 1,042,234; Oct. 22; Gaz. vol. 183; p. 966.
Card-holder. G. S. Petri. No. 1,040,749; Oct. 8; Gaz. vol. 183; p. 398.
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Card-punching and embroidering machine. R. Zahn. No. 1,047,602; Dec. 17; Gaz. vol. 185; p. 699.
Card-punching machine. H. Fleming. No. 1,015,619; Jan. 23; Sp. p. 5577; Gaz. vol. 174; p. 955.
Card-punching machine, Jacquard-. H. Wyman. No. 1,022,573; Apr. 9; Sp. p. 1730; Gaz. vol. 177; p. 305.
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Card repeater, Jacquard-. V. Royle. No. 1,032,707; July 16; Gaz. vol. 180; p. 726.
Card, Sample-. B. F. Stenz. No. 1,047,849; Dec. 17; Gaz. vol. 185; p. 785.
Card, Score-. C. Mecklem. No. 1,019,070; Mar. 5; Sp. p. 139; Gaz. vol. 176; p. 23.
Card-shuffler. C. T. Hall. No. 1,014,219; Jan. 9; Sp. p. 2497; Gaz. vol. 174; p. 420.
Card-shuffler. C. T. Hall. No. 1,041,271; Oct. 15; Gaz. vol. 183; p. 607.
Card shuffling and distributing device. H. Hurm. No. 1,043,109; Nov. 5; Gaz. vol. 184; p. 21.
Card-shuffling apparatus, Playing-. J. F. Hansen. No. 1,043,925; Nov. 12; Gaz. vol. 184; p. 340.
Card system, Assignment-. J. W. Stevens. No. 1,047,851; Dec. 17; Gaz. vol. 185; p. 786.
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Cards and the like, Support for. H. O. Hibbard. No. 1,020,907; Mar. 19; Sp. p. 4036; Gaz. vol. 176; p. 704.
Cards, Game-. W. T. Trusty. No. 1,036,166; Aug. 20; Gaz. vol. 181; p. 667.
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Cardboard, Composite. L. H. Baekeland. No. 1,019,406; Mar. 5; Sp. p. 943; Gaz. vol. 176; p. 138.
Cardboard, Corrugating. H. G. Reinstein. No. 1,016,093; Jan. 30; Sp. p. 6602; Gaz. vol. 174; p. 1147.
Cardboard, Manufacture of. W. G. Fiske. No. 1,033,756; July 23; Gaz. vol. 180; p. 1112.
Carding-doffer and constructing same. F. M. Moore and J. C. Elliott. No. 1,015,202; Jan. 16; Sp. p. 4652; Gaz. vol. 174; p. 785.
Carding-engines, Bur-crushing or like apparatus for use in connection with. W. Shaw, J. Bower, and F. Wilson. No. 1,017,179; Feb. 13; Sp. p. 2112; Gaz. vol. 175; p. 362.
Carding-machine. J. C. Potter. No. 1,015,835; Jan. 30; Sp. p. 6036; Gaz. vol. 174; p. 1054.
Carding-machine. P. Hardman. No. 1,017,665; Feb. 20; Sp. p. 3125; Gaz. vol. 175; p. 564.
Carding-machine. P. Hardman. No. 1,036,838; Aug. 27; Gaz. vol. 181; p. 930.
Carding-machine loosener. A. F. Poirier. No. 1,019,355; Mar. 5; Sp. p. 804; Gaz. vol. 176; p. 121.
Carding-machine stripper. R. H. Smith. No. 1,018,935; Feb. 27; Sp. p. 5984; Gaz. vol. 175; p. 1032.
Carding-machinery comb mechanism. G. F. Geb. No. 1,034,782; Aug. 6; Gaz. vol. 181; p. 128.
Carding, &c., machines, Alarm mechanism for. M. E. Walsh. No. 1,043,486; Nov. 5; Gaz. vol. 184; p. 159.
Carline. W. Miller. No. 1,029,570; June 11; Sp. p. 3249; Gaz. vol. 179; p. 545.
Carnation mender, Split-. J. N. Bommersbach. No. 1,046,143; Dec. 3; Gaz. vol. 185; p. 119.
Carousel. R. and J. Lusse. No. 1,033,716; July 23; Gaz. vol. 180; p. 1099.
Carousel. A. F. Müller. No. 1,040,736; Oct. 8; Gaz. vol. 183; p. 394.
Carousel, Water-. A. C. Bail. No. 1,031,510; July 2; Gaz. vol. 180; p. 230.
Carpenter's bit. W. B. Knapp. No. 1,015,446; Jan. 23; Sp. p. 5205; Gaz. vol. 174; p. 894.
Carpenter's gage. C. A. Matheson. No. 1,032,227; July 9; Gaz. vol. 180; p. 517.
Carpenter's gage. J. Smith. No. 1,041,687; Oct. 15; Gaz. vol. 183; p. 744.
Carpenter's laying-out tool. G. Myers. No. 1,024,863; Apr. 30; Sp. p. 6722; Gaz. vol. 177; p. 1183.
Carpenter's laying-out tool. G. Myers. No. 1,032,493; July 16; Gaz. vol. 180; p. 652.
Carpenter's tool. H. N. Auger. No. 1,015,773; Jan. 30; Sp. p. 5910; Gaz. vol. 174; p. 1034.
Carpet-beater. H. C. and O. Preston. No. 1,015,634; Jan. 23; Sp. p. 5617; Gaz. vol. 174; p. 961.
Carpet-cleaner. E. J. Tangeman. No. 1,042,054; Oct. 22; Gaz. vol. 183; p. 906.
Carpet-cleaner, Pneumatic. R. W. Thorne. No. 1,037,081; Aug. 27; Gaz. vol. 181; p. 1010.
Carpet-cleaner, Vacuum. D. A. Minnich. No. 1,035,460; Aug. 13; Gaz. vol. 181; p. 389.
Carpet-fastener. W. McDonald. No. 1,032,922; July 16; Gaz. vol. 180; p. 797.
Carpet fastener, Stair-. J. G. Welsh. No. 1,013,345; Jan. 2; Sp. p. 573; Gaz. vol. 174; p. 91.
Carpet fastener, Stair-. G. W. Deatrich, Sr. No. 1,033,678; July 23; Gaz. vol. 180; p. 1087.
Carpet fastener, Stair-. J. D. Gallagher. No. 1,040,661; Oct. 8; Gaz. vol. 183; p. 370.
Carpet-stretcher. J. A. G. Seybold. No. 1,027,914; May 28; Sp. p. 6221; Gaz. vol. 178; p. 1068.
Carpet-stretcher. C. N. Dehlinger. No. 1,033,552; July 23; Gaz. vol. 180; p. 1047.
Carpet-sweeper. F. C. Mason and J. W. Shanahan. No. 1,042,134; Oct. 22; Gaz. vol. 183; p. 932.
Carpet-sweeper. S. A. Davis. No. 1,045,264; Nov. 26; Gaz. vol. 184; p. 862.
Carpet sweeper and cleaner. J. M. Spangler. No. 1,021,731; Mar. 26; Sp. p. 5763; Gaz. vol. 176; p. 1035.
Carpet-sweeper attachment. A. K. Brettelle. No. 1,022,059; Apr. 2; Sp. p. 654; Gaz. vol. 177; p. 104.
Carpet-sweeper brush adjustment. F. C. Mason and J. W. Shanahan. No. 1,038,170; Sept. 10; Gaz. vol. 182; p. 365.
Carpet-sweeper, Pneumatic. D. C. Walter. No. 1,014,027; Jan. 9; Sp. p. 2100; Gaz. vol. 174; p. 353.
Carriage. T. M. Shotts. No. 1,038,976; Sept. 17; Gaz. vol. 182; p. 678.
Carriage and sleigh, Child's combined. J. W. Moore. No. 1,013,206; Jan. 2; Sp. p. 237; Gaz. vol. 174; p. 40.
Carriage attachment, Baby-. J. T. Murphy. No. 1,039,993; Oct. 1; Gaz. vol. 183; p. 107.
Carriage, Baby-. M. Fried. No. 1,014,292; Jan. 9; Sp. p. 2669; Gaz. vol. 174; p. 445.
Carriage, Child's. C. S. Spofford, F. W. Jonas, and J. W. Bennett. No. 1,041,186; Oct. 15; Gaz. vol. 183; p. 577.
Carriage, Collapsible. C. S. Spofford and H. H. Herrmann. No. 1,047,321; Dec. 17; Gaz. vol. 185; p. 600.
Carriage, Collapsible. C. S. Spofford and F. W. Jonas. No. 1,047,322; Dec. 17; Gaz. vol. 185; p. 601.
Carriage, Collapsible. G. E. Cleveland. No. 1,048,495; Dec. 31; Gaz. vol. 185; p. 1068.
Carriage gear, Child's-. A. M. Walden. No. 1,023,692; Apr. 16; Sp. p. 4089; Gaz. vol. 177; p. 718.
Carriage or go-cart, Baby-. A. J. Adams. No. 1,037,572; Sept. 3; Gaz. vol. 182; p. 134.
Carriage-top bow-coupling. F. E. Gilbert. No. 1,019,711; Mar. 5; Sp. p. 1524; Gaz. vol. 176; p. 236.
Carriage-top bow-coupling. E. R. Rhodes. No. 1,039,195; Sept. 24; Gaz. vol. 182; p. 768.
Carriage-wheels, Detachable rim for. L. J. C. G. Dehais. No. 1,034,385; July 30; Gaz. vol. 180; p. 1360.
Carriage-window. A. M. Modry. No. 1,037,164; Aug. 27; Gaz. vol. 181; p. 1038.
Carrier: *See* Aerial carrier; Baby-carrier; Binder leaf-carrier; Blowpipe-carrier; Bottle-carrier; Braiding-carrier; Braiding-machine carrier; Brick-carier; Bundle-carrier; Cable carrier; Can-carrier; Coin and bill carrier; Egg-carrier; Elevator-carrier; Ensilage-carrier; Feed and litter carrier; Film-carrier; Folding carrier; Food-carrier; Freight-carrier; Fuse-carrier; Game-carrier; Gravity-carrier; Invalid-carrier; Line-carrier; Litter-carrier; Load-carrier; Luggage-carrier; Mail-carrier; Mail and package carrier; Manure-carrier; Merchandise-carrier; Overhead carrier; Package-carrier; Pawl-carrier; Pistol-holster carrier; Plumb-bob carrier; Pneumatic carrier; Pneumatic-despatch-tube-apparatus carrier; Printing-press sheet-carrier; Radiator-carrier; Reel-carrier; Side carrier; Skate-carrier; Telescope-carrier; Thread-carrier; Tool-carrier; Trace-carrier; Tube-carrier; Tubular carrier; Type-writer ribbon-carrier; Umbrella-carrier; Watch or clock spring carrier; Water-carrier; Wing-carrier; Wood-carrier.
Carrier. J. W. Moore. No. 1,019,175; Mar. 5; Sp. p. 379; Gaz. vol. 176; p. 60.
Carrier. R. W. Franklin. No. 1,022,130; Apr. 2; Sp. p. 806; Gaz. vol. 177; p. 127.
Carrier. G. G. Mandt. No. 1,022,687; Apr. 9; Sp. p. 1987; Gaz. vol. 177; p. 344.
Carrier. A. Keller. No. 1,028,469; June 4; Sp. p. 895; Gaz. vol. 179; p. 135.
Carrier. A. L. Anderson. No. 1,031,411; July 2; Gaz. vol. 180; p. 197.
Carrier. H. J. Buck. No. 1,041,424; Oct. 15; Gaz. vol. 183; p. 657.
Carrier or conveyer. W. K. Liggett. No. 1,044,547; Nov. 19; Gaz. vol. 184; p. 584.
Carrier-sections, Coupling device for. H. J. Buck. No. 1,038,842; Sept. 17; Gaz. vol. 182; p. 633.
Carrier stop, Elevated-. H. H. Drew. No. 1,017,393; Feb. 13; Sp. p. 2572; Gaz. vol. 175; p. 435.
Carrier switch, Overhead-. A. N. Jensen. No. 1,043,599; Nov. 5; Gaz. vol. 184; p. 197.
Carrier system, Gravity. W. H. Bickford. No. 1,022,017; Apr. 2; Sp. p. 569; Gaz. vol. 177; p. 89.
Carrier trip, Hay and other. D. D. Miller and D. E. Rowland. No. 1,014,019; Jan. 9; Sp. p. 2084; Gaz. vol. 174; p. 350.
Carriers, Automatic loader for lift-. C. H. Lister. No. 1,021,876; Apr. 2; Sp. p. 270; Gaz. vol. 177; p. 43.
Carrier's routing device, Rural-. J. W. Maupin. No. 1,037,788; Sept. 3; Gaz. vol. 182; p. 204.
Carrying materials, Mechanism for. W. T. James. No. 1,022,787; Apr. 9; Sp. p. 2221; Gaz. vol. 177; p. 380.
Cart. F. T. Walther. No. 1,046,352; Dec. 3; Gaz. vol. 185; p. 192.
Cart and sled, Combined. E. F. Lind. No. 1,016,640; Feb. 6; Sp. p. 943; Gaz. vol. 175; p. 141.
Cart, Can-. P. E. Boyum. No. 1,029,045; June 11; Sp. p. 2126; Gaz. vol. 179; p. 366
Cart, Dump-. W. S. Witten. No. 1,014,734; Jan. 16; Sp. p. 3664; Gaz. vol. 174; p. 626.
Cart, Dump-. W. S. Witten. No. 1,043,989; Nov. 12; Gaz. vol. 184; p. 363.
Cart, Dumping-. L. Wolf. No. 1,024,959; Apr. 30; Sp. p. 6920; Gaz. vol. 177; p. 1216.
Cart, Garbage-. G. F. Edginton. No. 1,047,009; Dec. 10; Gaz. vol. 185; p. 457.
Cart, Hand-. S. B. Hazard. No. 1,029,365; June 11; Sp. p. 2818; Gaz. vol. 179; p. 475.
Cart, Hand-. W. S. Witten. No. 1,043,993; Nov. 12; Gaz. vol. 184; p. 365.
Cart-hood, Cape. R. W. Maudslay. No. 1,046,093; Dec. 3; Gaz. vol. 185; p. 101.
Cart, Loading-. F. Zizka. No. 1,044,841; Nov. 19; Gaz. vol. 184; p. 687.
Carts, Locking device for dump-. G. Huling. No. 1,024,338; Apr. 23; Sp. p. 5506; Gaz. vol. 177; p. 965.
Carton. E. H. Angier. No. 1,025,444; May 7; Sp. p. 754; Gaz. vol. 178; p. 117.
Carton. G. M. Voris. No. 1,030,949; July 2; Gaz. vol. 180; p. 34.

Alphabetical list of inventions—Continued.

Carton. W. H. Doble. No. 1,040,651; Oct. 8; Gaz. vol. 183; p. 366.
Carton. A. M. Seeley and N. C. Durand. No. 1,042,042; Oct. 22; Gaz. vol. 183; p. 902.
Carton-blanks, Machine for paraffining. M. L. Twomley. No. 1,045,222; Nov. 26; Gaz. vol. 184; p. 848.
Carton-coating machine. G. W. Beadle. No. 1,030,636; June 25; Sp. p. 5803; Gaz. vol. 179; p. 995.
Carton, Combined packing and display. W. A. V. Porter. No. 1,018,726; Feb. 27; Sp. p. 5552; Gaz. vol. 175; p. 961.
Carton-dispensing attachment. J. A. Hagerstrom. No. 1,043,226; Nov. 5; Gaz. vol. 184; p. 65.
Carton filling and closing machine. N. B. Converse. No. 1,044,500; Nov. 19; Gaz. vol. 184; p. 566.
Carton, Folding. J. H. Carter. No. 1,039,026; Sept. 17; Gaz. vol. 182; p. 693.
Carton-marker. G. H. Lang. No. 1,019,971; Mar. 12; Sp. p. 2056; Gaz. vol. 176; p. 355.
Carton permanent end closure. G. W. Beadle. No. 1,033,659; July 23; Gaz. vol. 180; p. 1082.
Cartons and the like, Machine for setting up. F. M. Peters. No. 1,025,880; May 7; Sp. p. 1714; Gaz. vol. 178; p. 266.
Cartons, Machine for closing and sealing the tops of filled. J. H. Witt. No. 1,036,399; Aug. 20; Gaz. vol. 181; p. 749.
Cartons, Removable end closure for. G. W. Beadle. No. 1,036,545; Aug. 27; Gaz. vol. 181; p. 832.
Cartridge. J. D. S. Haslett. No. 1,023,469; Apr. 16; Sp. p. 3654; Gaz. vol. 177; p. 648.
Cartridge, Artillery-. B. Knaebel. No. 1,021,685; Mar. 26; Sp. p. 5663; Gaz. vol. 176; p. 1019.
Cartridge-belt. J. B. Williamson. No. 1,014,196; Jan. 9; Sp. p. 2450; Gaz. vol. 174; p. 411.
Cartridge-belt. V. H. Jennings. No. 1,015,801; Jan. 30; Sp. p. 5966; Gaz. vol. 174; p. 1043.
Cartridge-belt. F. Robie. No. 1,016,231; Jan. 30; Sp. p. 6851; Gaz. vol. 174; p. 1190.
Cartridge-belt. F. R. Batchelder. No. 1,026,068; May 14; Sp. p. 2166; Gaz. vol. 178; p. 366.
Cartridge belt or carrier. V. H. Jennings. No. 1,037,177; Aug. 27; Gaz. vol. 181; p. 1042.
Cartridge-blank receiver. L. R. Smiley. No. 1,027,509; May 28; Sp. p. 5317; Gaz. vol. 178; p. 932.
Cartridge-case extractor. L. V. Benét and H. A. Mercié. No. 1,041,410; Oct. 15; Gaz. vol. 183; p. 653.
Cartridge-cases of brass or other alloys of copper, Manufacture of. H. Ehrhardt. No. 1,024,840; Apr. 30; Sp. p. 6679; Gaz. vol. 177; p. 1175.
Cartridge-exploding device, Automatic. G. Stocker. No. 1,013,967; Jan. 9; Sp. p. 1967; Gaz. vol. 174; p. 333.
Cartridge-feed belt. N. Björgum. No. 1,038,078; Sept. 10; Gaz. vol. 182; p. 336.
Cartridge-fuse, Refillable. E. B. Mallory. No. 1,045,051; Nov. 19; Gaz. vol. 184; p. 760.
Cartridge-loading machine. H. P. Hall. No. 1,031,644; July 2; Gaz. vol. 180; p. 276.
Cartridge, Paper-shell. C. H. Stevenson. No. 1,039,839; Oct. 1; Gaz. vol. 183; p. 57.
Cartridge-pocket for hunting coats, jackets, &c. H. M. Altick. No. 1,023,489; Apr. 16; Sp. p. 3695; Gaz. vol. 177; p. 654.
Cartridge-primer. E. M. Funk. No. 1,040,250; Oct. 1; Gaz. vol. 183; p. 193.
Cartridge-shell. L. A. and H. E. Sherman. No. 1,038,007; Sept. 10; Gaz. vol. 182; p. 312.
Cartridge, Signaling-. C. A. Schade-Erlandsen. No. 1,018,632; Feb. 27; Sp. p. 5356; Gaz. vol. 175; p. 929.
Cartridges, Cap and fuse holder for dynamite. W. B. Kellogg. No. 1,021,934; Apr. 2; Sp. p. 374; Gaz. vol. 177; p. 62.
Cartridges or shells, Machine for making paper. H. Auchu. No. 1,018,473; Feb. 27; Sp. p. 4948; Gaz. vol. 175; p. 875.
Carving-machine. D. B. Salstrom. No. 1,013,618; Jan. 2; Sp. p. 1144; Gaz. vol. 174; p. 182.
Carving-machine belt-gearing. D. B. Salstrom. No. 1,013,617; Jan. 2; Sp. 1142; Gaz. vol. 174; p. 182.
Cascara sagrada, Preparing a refined extract from. A. Diefenbach. No. 1,043,209; Nov. 5; Gaz. vol. 184; p. 58.
Case: *See* Battery-case; Bookcase; Boot and shoe toe case; Bottle-case; Brush-case; Brush comb-case; Burial-case; Camera-case; Can-shipping case; Cell-case; Cigar-case; Cigar or cigarette case; Cigarette-case; Clock-case; Coffin-case; Collapsible case; Crank-case; Display-case; Display and shipping case; Display and storage case; Drawing and music case; Egg-case; Engine lower crank-case; Eyeglass-case; Filing-case; Fuse-case; Gage and the like case; Gear-case; Hypodermic-needle case; Instrument-case; Musical-instrument case; Packing-case; Packing and shipping case; Pass-case; Pencil-case; Piano-case; Pillow-case; Pipe-case; Pocket-case; Racket-case; Record-case; Refrigerating-case; Revolving case; Sample-case; Saw-carrying case; Sectional case; Separating-case; Shipping-case; Show-case; Spectacle-case; Spectacle and eyeglass case; Spectacle or eyeglass case; Suit-case; Syringe-case; Thermometer-case; Tire-case; Tire-repairing case; Toilet-case; Tool-case; Transformer-case; Type-case; Wall-case; Watchcase.
Case-hardening and other metal treatment, Apparatus for. A. W. Machlet. No. 1,033,815; July 30; Gaz. vol. 180; p. 1159.
Case-hardening apparatus. A. W. Machlet. No. 1,013,190; Jan 2; Sp. p. 195; Gaz. vol. 174; p. 35.
Case-hardening apparatus. A. W. Machlet. No. 1,013,191; Jan. 2; Sp. p. 200; Gaz. vol. 174; p. 35.
Case-hardening compound. P. W. Brennan and M. Meehan. No. 1,036,435; Aug. 20; Gaz. vol. 181; p. 761.
Cases, boxes, &c., Form for. C. J. Bradley. No. 1,043,564; Nov. 5; Gaz. vol. 184; p. 186.
Casing. G. E. Palmer. No. 1,036,317; Aug. 20; Gaz. vol. 181; p. 720.
Casing, Bendable inclosing. A. E. Woodhouse. No. 1,035,931; Aug. 20; Gaz. vol. 181; p. 585.
Casing-elevator. B. C. Williams. No. 1,045,764; Nov. 26; Gaz. vol. 184; p. 1038.
Casing-elevator. W. W. Wilkinson. No. 1,047,472; Dec. 17; Gaz. vol. 185; p. 653.
Casing-head. F. J. Moser. No. 1,045,314; Nov. 26; Gaz. vol. 184; p. 878.
Casing, Metal. R. D. Mayo, Sr. No. 1,048,988; Dec. 31; Gaz. vol. 185; p. 1239.
Casing, Protective. B. Volkmar. No. 1,013,850; Jan. 2; Sp. p. 1679; Gaz. vol. 174; p. 265.
Casing-spear. F. C. Baker. No. 1,033,655; July 23; Gaz. vol. 180; p. 1081.
Casing-spear, Adjustable. D. G. Monsees. No. 1,045,728; Nov. 26; Gaz. vol. 184; p. 1027.
Casing spear, Drive-down-. E. L. Mills. No. 1,021,205; Mar. 26; Sp. p. 4662; Gaz. vol. 176; p. 855.
Casings and the like, Shut-off head for. W. Wagner. No. 1,038,244; Sept. 10; Gaz. vol. 182; p. 390.
Casings, Apparatus for elevating. E. Double and A. Craig. No. 1,014,955; Jan. 16; Sp. p. 4171; Gaz. vol. 174; p. 701.
Casements and other hinged shutters, Fastening device for. P. Leist-Wettler. No. 1,013,501; Jan. 2; Sp. p. 899; Gaz. vol. 174; p. 143.
Casein compound, Indurated. B. B. Goldsmith. No. 1,027,122; May 21; Sp. p. 4543; Gaz. vol. 178; p. 763.
Casein derivatives and manufacture of same. R. Tambach. No. 1,037,685; Sept. 3; Gaz. vol. 182; p. 172.
Cash and autographic register. C. Palmer. No. 1,033,456; July 23; Gaz. vol. 180; p. 1015.
Cash and autographic register. M. Jacob. No. 1,035,708; Aug. 13; Gaz. vol. 181; p. 471.
Cash and credit register. E. S. Church. No. 1,036,565; Aug. 27; Gaz. vol. 181; p. 838.
Cash-box, Portable. J. Pallweber. No. 1,030,265; June 18; Sp. p. 4783; Gaz. vol. 179; p. 821.
Cash-delivering device. A. E. G. Lubke. No. 1,022,636; Apr. 9; Sp. p. 1867; Gaz. vol. 177; p. 326.
Cash issuing, indicating, and registering apparatus. J. Planecki and F. Drobniak. No. 1,038,432; Sept. 10; Gaz. vol. 182; p. 456.
Cash-recorder. W. Hainer. No. 1,043,100; Nov. 5; Gaz. vol. 184; p. 18.
Cash-recorder, Multiple. P. A. McCaskey. No. 1,043,332; Nov. 5; Gaz. vol. 184; p. 103.
Cash-register. W. H. Muzzy. No. 1,013,210; Jan. 2; Sp. p. 245; Gaz. vol. 174; p. 42.
Cash-register. F. C. Osborn. No. 1,015,456; Jan. 23; Sp. p. 5219; Gaz. vol. 174; p. 298.
Cash-register. W. H. Muzzy. No. 1,015,825; Jan. 30; Sp. p. 6014; Gaz. vol. 174; p. 1051.
Cash-register. T. Carney. No. 1,016,066; Jan. 30; Sp. p. 6540; Gaz. vol. 174; p. 1137.
Cash-register. T. Carroll. No. 1,017,079; Feb. 13; Sp. p. 1902; Gaz. vol. 175; p. 328.
Cash-register. T. Carney. No. 1,018,486; Feb. 27; Sp. p. 4995; Gaz. vol. 175; p. 879.
Cash-register. J. F. Parker. No. 1,022,152; Apr. 2; Sp. p. 850; Gaz. vol. 177; p. 135.
Cash-register. J. F. Parker. No. 1,022,868; Apr. 9; Sp. p. 2376; Gaz. vol. 177; p. 407.
Cash-register. W. H. Muzzy. No. 1,024,593; Apr. 30; Sp. p. 6157; Gaz. vol. 177; p. 1087.
Cash-register. C. F. Kettering and W. A. Chryst. No. 1,025,277; May 7; Sp. p. 362; Gaz. vol. 178; p. 59.
Cash-register. W. H. Muzzy. No. 1,025,990; May 14; Sp. p. 1958; Gaz. vol. 178; p. 338.
Cash-register. W. H. Muzzy. No. 1,026,762; May 21; Sp. p. 3680; Gaz. vol. 178; p. 638.
Cash-register. W. H. Muzzy. No. 1,026,763; May 21; Sp. p. 3686; Gaz. vol. 178; p. 639.
Cash-register. C. Trog. No. 1,027,160; May 21; Sp. p. 4615; Gaz. vol. 178; p. 774.
Cash-register. R. Treber. No. 1,030,495; June 25; Sp. p. 5320; Gaz. vol. 179; p. 942.
Cash-register. W. M. McCarthy. No. 1,033,432; July 23; Gaz. vol. 180; p. 1007.
Cash-register. C. Palmer. No. 1,033,455; July 23; Gaz. vol. 180; p. 1015.
Cash-register. W. F. Schweiger. No. 1,033,478; July 23; Gaz. vol. 180; p. 1023.
Cash-register. G. A. Wineman. No. 1,033,973; July 30; Gaz. vol. 180; p. 1216.
Cash-register. W. M. McCarthy. No. 1,034,477; Aug. 6; Gaz. vol. 181; p. 25.

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Cash-register. J. P. Cleal. No. 1,043,804; Nov. 12; Gaz. vol. 184; p. 297.
Cash-register. R. Braun. No. 1,044,482; Nov. 19; Gaz. vol. 184; p. 561.
Cash-register. C. Palmer. No. 1,046,011; Dec. 3; Gaz. vol. 185; p. 72.
Cash-register. T. Carroll. No. 1,046,054; Dec. 3; Gaz. vol. 185; p. 88.
Cash-register. C. Wear. No. 1,046,353; Dec. 3; Gaz. vol. 185; p. 193.
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Cash-register. E. S. Church. No. 1,047,749; Dec. 17; Gaz. vol. 185; p. 751.
Cash-register. J. P. Cleal. No. 1,047,751; Dec. 17; Gaz. vol. 185; p. 752.
Cash-register. F. K. Fassett. No. 1,047,775; Dec. 17; Gaz. vol. 185; p. 760.
Cash-register. W. H. Muzzy. No. 1,048,861; Dec. 31; Gaz. vol. 185; p. 1195.
Cash-register and money-changer. W. H. Muzzy. No. 1,048,860; Dec. 31; Gaz. vol. 185; p. 1195.
Cash-register attachment. W. V. Bauman. No. 1,041,405; Oct. 15; Gaz. vol. 183; p. 651.
Cash-register, Change-making. E. J. Von Pein. No. 1,034,500; Aug. 6; Gaz. vol. 181; p. 34.
Cash-register, Check. C. L. Grohmann and I. C. Koehne. No. 1,014,647; Jan. 16; Sp. p. 3474; Gaz. vol. 174; p. 596.
Cash-register or check-till. F. A. M. Chapon. No. 1,013,741; Jan. 2; Sp. p. 1441; Gaz. vol. 174; p. 226.
Cash-register signaling device. M. Jacob. No. 1,037,917; Sept. 10; Gaz. vol. 182; p. 282.
Cash-register, Total-printing. H. A. Martin. No. 1,013,193; Jan. 2; Sp. p. 209; Gaz. vol. 174; p. 36.
Cash-register, Total-printing. F. L. Fuller. No. 1,022,230; Apr. 2; Sp. p. 1013; Gaz. vol. 177; p. 162.
Cash-registers, &c., Printing mechanism for. A. J. Postans. No. 1,033,928; July 30; Gaz. vol. 180; p. 1199.
Cashier, Mechanical. T. L. Stroud. No. 1,035,652; Aug. 13; Gaz. vol. 181; p. 454.
Cask and barrel stand. M. Rogler. No. 1,026,127; May 14; Sp. p. 2297; Gaz. vol. 178; p. 387.
Cask, Sheet-metal. I. Lefebvre. No. 1,017,427; Feb. 13; Sp. p. 2653; Gaz. vol. 175; p. 448.
Casks, barrels, or the like, Tightening. B. Diamand. No. 1,013,137; Jan. 2; Sp. p. 93; Gaz. vol. 174; p. 17.
Casks, &c., Making bodies for sulfuring. O. Urbasch. No. 1,042,057; Oct. 22; Gaz. vol. 183; p. 907.
Casket. S. S. Tucker. No. 1,018,853; Feb. 27; Sp. p. 5813; Gaz. vol. 175; p. 1004.
Casket and grave-vault, Combined burial-. J. W. Freeman. No. 1,021,403; Mar. 26; Sp. p. 5120; Gaz. vol. 176; p. 926.
Casket, Burial-. C. L. Smith. No. 1,021,638; Mar. 26; Sp. p. 5590; Gaz. vol. 176; p. 1005.
Casket, Burial-. M. P. and L. E. Little. No. 1,026,044; May 14; Sp. p. 2086; Gaz. vol. 178; p. 357.
Casket, Burial-. C. H. Wible. No. 1,027,453; May 28; Sp. p. 5205; Gaz. vol. 178; p. 913.
Casket, Burial-. J. M. Arnold. No. 1,031,507; July 2; Gaz. vol. 180; p. 229.
Casket, Burial-. P. W. Sievert. No. 1,048,361; Dec. 24; Gaz. vol. 185; p. 984.
Casket-canopy. B. C. Wallace. No. 1,020,169; Mar. 12; Sp. p. 2481; Gaz. vol. 176; p. 422.
Casket, Extension burial-. A. Franke. No. 1,026,434; May 14; Sp. p. 2968; Gaz. vol. 178; p. 491.
Casket-handle. H. G. Collins. No. 1,019,761; Mar. 12; Sp. p. 1641; Gaz. vol. 176; p. 286.
Casket-handle. E. R. Sargent. No. 1,030,434; June 25; Sp. p. 5177; Gaz. vol. 179; p. 921.
Casket-handle. E. J. Aldworth. No. 1,041,944; Oct. 22; Gaz. vol. 183; p. 870.
Casket-handle. J. G. Warther. No. 1,044,312; Nov. 12; Gaz. vol. 184; p. 473.
Casket-handle, Detachable. J. M. Doddridge and J. C. Beck. No. 1,030,877; July 2; Gaz. vol. 180; p. 10.
Casket hardware, Burial-. M. F. Davoran. No. 1,027,106; May 21; Sp. p. 4502; Gaz. vol. 178; p. 758.
Casket, Mortuary. W. L. Bear. No. 1,040,121; Oct. 1; Gaz. vol. 183; p. 151.
Casket or coffin. L. T. Bow. No. 1,043,664; Nov. 5; Gaz. vol. 184; p. 219.
Cassava and products thereof, Treating. C. C. Moore. No. 1,016,762; Feb. 6; Sp. p. 1184; Gaz. vol. 175; p. 182.
Cast-iron blast-heater. K. Meier. No. 1,047,676; Dec. 17; Gaz. vol. 185; p. 726.
Cast-off. G. E. Prentice. No. 1,018,079; Feb. 20; Sp. p. 4113; Gaz. vol. 175; p. 709.
Caster. W. Maier. No. 1,015,572; Jan. 23; Sp. p. 5480; Gaz. vol. 174; p. 938.
Caster. F. E. Thompson. No. 1,016,654; Feb. 6; Sp. p. 962; Gaz. vol. 175; p. 145.
Caster. J. Rae. No. 1,017,464; Feb. 13; Sp. p. 2743; Gaz. vol. 175; p. 461.
Caster. E. W. Bassick. No. 1,022,056; Apr. 2; Sp. p. 650; Gaz. vol. 177; p. 103.
Caster. M. B. Schenck. No. 1,022,800; Apr. 9; Sp. p. 2244; Gaz. vol. 177; p. 384.
Caster. H. A. Palmer. No. 1,023,222; Apr. 16; Sp. p. 3171; Gaz. vol. 177; p. 568.
Caster. W. J. McIntyre. No. 1,029,705; June 18; Sp. p. 3567; Gaz. vol. 179; p. 630.
Caster. F. E. Thompson. No. 1,031,099; July 2; Gaz. vol. 180; p. 89.
Caster. J. G. Ludwig. No. 1,033,256; July 23; Gaz. vol. 180; p. 950.
Caster. A. B. Oppy. No. 1,033,264; July 23; Gaz. vol. 180; p. 953.
Caster. O. Pittack and A. B. Warman. No. 1,039,590; Sept. 24; Gaz. vol. 182; p. 907.
Caster. A. E. Sander. No. 1,046,027; Dec. 3; Gaz. vol. 185; p. 78.
Caster. C. W. Parsons. No. 1,047,115; Dec. 10; Gaz. vol. 185; p. 494.
Caster, Adjustable. H. D. Bollinger. No. 1,027,686; May 28; Sp. p. 5687; Gaz. vol. 178; p. 991.
Caster, Adjustable ball-. P. T. Dunn. No. 1,016,324; Feb. 6; Sp. p. 201; Gaz. vol. 175; p. 31.
Caster, Ball-. W. A. Barnes and R. W. Jamieson. No. 1,016,813; Feb. 6; Sp. p. 1293; Gaz. vol. 175; p. 198.
Caster, Ball-bearing. J. H. Eichholz. No. 1,014,582; Jan. 9; Sp. p. 3248; Gaz. vol. 174; p. 542.
Caster, Barrel-. J. N. and E. E. Fryberg and P. Johnson. No. 1,045,013; Nov. 19; Gaz. vol. 184; p. 746.
Caster, Chair-leg or furniture. A. E. Schatz. No. 1,019,534; Mar. 5; Sp. p. 1208; Gaz. vol. 176; p. 179.
Caster, Detachable. D. Read. No. 1,017,799; Feb. 20; Sp. p. 3471; Gaz. vol. 175; p. 610.
Caster device, Leg-lifting-. A. Grub. No. 1,021,773; Apr. 2; Sp. p. 35; Gaz. vol. 177; p. 9.
Caster, Disappearing folding. N. C. Toll. No. 1,022,646; Apr. 9; Sp. p. 1891; Gaz. vol. 177; p. 330.
Caster, Folding. B. F. Perry. No. 1,033,267; July 23; Gaz. vol. 180; p. 954.
Caster for store-counters. B. T. B. Hyde. No. 1,032,006; July 9; Gaz. vol. 180; p. 442.
Caster, Furniture-. F. W. Starr. No. 1,016,300; Feb. 6; Sp. p. 140; Gaz. vol. 175; p. 22.
Caster, Furniture-. A. C. Butcher. No. 1,019,302; Mar. 5; Sp. p. 669; Gaz. vol. 176; p. 104.
Caster, Furniture-. J. F. O'Brien. No. 1,020,654; Mar. 19; Sp. p. 3505; Gaz. vol. 176; p. 619.
Caster, Furniture-. A. E. Schatz. No. 1,026,773; May 21; Sp. p. 3710; Gaz. vol. 178; p. 643.
Caster, Furniture-. C. F. Laun. No. 1,029,136; June 11; Sp. p. 2318; Gaz. vol. 179; p. 395.
Caster, Guarded. W. Sellers and H. C. Beck. No. 1,018,211; Feb. 20; Sp. p. 4392; Gaz. vol. 175; p. 755.
Caster raising and lowering means for stands, &c. J. F. L. Uhl. No. 1,023,182; Apr. 16; Sp. p. 3096; Gaz. vol. 177; p. 553.
Caster, Table-. A. Marinelli. No. 1,015,201; Jan. 16; Sp. p. 4651; Gaz. vol. 174; p. 785.
Caster, Table-. E. C. Henrikson. No. 1,016,745; Feb. 6; Sp. p. 1145; Gaz. vol. 175; p. 177.
Caster-wheel. I. Rocic. No. 1,024,227; Apr. 23; Sp. p. 5305; Gaz. vol. 177; p. 929.
Caster-wheel. A. B. Clark. No. 1,037,866; Sept. 10; Gaz. vol. 182; p. 263.
Casters, Centering and retaining member for. N. S. Covey. No. 1,029,795; June 18; Sp. p. 3749; Gaz. vol. 179; p. 660.
Casting apparatus. F. W. Tracy. No. 1,017,707; Feb. 20; Sp. p. 3211; Gaz. vol. 175; p. 577.
Casting apparatus. G. F. McKee and W. F. Schilling. No. 1,019,905; Mar. 12; Sp. p. 1927; Gaz. vol. 176; p. 335.
Casting apparatus. G. F. McKee and W. F. Schilling. No. 1,019,906; Mar. 12; Sp. p. 1930; Gaz. vol. 176; p. 335.
Casting apparatus. O. M. Sherman. No. 1,023,884; Apr. 23; Sp. p. 4515; Gaz. vol. 177; p. 809.
Casting apparatus. J. W. Brown, Jr. No. 1,027,316; May 21; Sp. p. 4922; Gaz. vol. 178; p. 828.
Casting apparatus. G. F. McKee and W. F. Schilling. No. 1,030,198; June 18; Sp. p. 4638; Gaz. vol. 179; p. 997.
Casting apparatus. W. T. Harding. No. 1,040,314; Oct. 8; Gaz. vol. 183; p. 247.
Casting apparatus. R. Gösser. No. 1,047,513; Dec. 17; Gaz. vol. 185; p. 667
Casting-apparatus delivery-pipe. F. de Buigné. No. 1,024,553; Apr. 30; Sp. p. 6067; Gaz. vol. 177; p. 1074.
Casting apparatus, Die-. W. A. Leddell. No. 1,013,665; Jan. 2; Sp. p. 1267; Gaz. vol. 174; p. 199.
Casting apparatus, Pneumatic. S. P., Jr., and J. P. Wetherill, Jr. No. 1,029,565; June 11; Sp. p. 3240; Gaz. vol. 179; p. 543.
Casting apparatus, Pressure. A. W. Morris. No. 1,039,173; Sept. 24; Gaz. vol. 182; p. 759.
Casting apparatus, Pressure. S. P. Wetherill, Jr., and A. W. Morris. No. 1,039,234; Sept. 24; Gaz. vol. 182; p. 782.
Casting, Chaplet for metal-. H. Heesemann. No. 1,043,102; Nov. 5; Gaz. vol. 184; p. 19.

Casting circular objects, Mold for. T. D. West. No. 1,025,438; May 7; Sp. p. 736; Gaz. vol. 178; p. 115.
Casting curved printing-plates and the like, Method of and apparatus for. E. W. Cooper. No. 1,028,330; June 4; Sp. p. 576; Gaz. vol. 179; p. 86.
Casting device, Ingot-. F. L. Jamison. No. 1,032,835; July 16; Gaz. vol. 180; p. 769.
Casting device, Vacuum. R. C. Brophy. No. 1,030,868; July 2; Gaz. vol. 180; p. 6.
Casting furnace-doors, Apparatus for. J. B. Walker. No. 1,018,090; Feb. 20; Sp. p. 4138; Gaz. vol. 175; p. 712.
Casting ingots, Process and apparatus for. J. Ensslen. No. 1,024,722; Apr. 30; Sp. p. 6428; Gaz. vol. 177; p. 1132.
Casting-machine. J. A. McManus, Jr. No. 1,015,818; Jan. 30; Sp. p. 5995; Gaz. vol. 174; p. 1048.
Casting-machine. J. A. McManus, Jr. No. 1,015,819; Jan. 30; Sp. p. 6000; Gaz. vol. 174; p. 1049.
Casting-machine. R. M. Akin. No. 1,017,943; Feb. 20; Sp. p. 3808; Gaz. vol. 175; p. 661.
Casting-machine. P. E. Rees and B. L. Simpson. No. 1,031,585; July 2; Gaz. vol. 180; p. 255.
Casting-machine. C. H. Lister. No. 1,033,254; July 23; Gaz. vol. 180; p. 949.
Casting-machine. J. W. Furlow. No. 1,035,956; Aug. 20; Gaz. vol. 181; p. 594.
Casting-machine. F. Engel. No. 1,041,051; Oct. 15; Gaz. vol. 183; p. 532.
Casting-machine. J. Wahlstrom and S. Haunsperger. No. 1,042,854; Oct. 29; Gaz. vol. 183; p. 1208.
Casting machine, Die-. L. M. Parkhurst. No. 1,045,738; Nov. 26; Gaz. vol. 184; p. 1030.
Casting-machine discharge apparatus. H. W. Yeager. No. 1,015,374; Jan. 23; Sp. p. 5050; Gaz. vol. 174; p. 870.
Casting machine, Inlay and bridge. A. F. Cogswell. No. 1,046,976; Dec. 10; Gaz. vol. 185; p. 447.
Casting-machines, Device for filling centrifugal. W. H. Millspaugh. No. 1,047,972; Dec. 24; Gaz. vol. 185; p. 853.
Casting metal. R. T. Harris. No. 1,017,969; Feb. 20; Sp. p. 3870; Gaz. vol. 175; p. 669.
Casting, Metal-. E. Weintraub. No. 1,023,604; Apr. 16; Sp. p. 3936; Gaz. vol. 177; p. 691.
Casting metals. F. de Buigné. No. 1,026,733; May 21; Sp. p. 3617; Gaz. vol. 178; p. 628.
Casting mold, Metal-. R. T. Harris. No. 1,017,970; Feb. 20; Sp. p. 3873; Gaz. vol. 175; p. 670.
Casting molten metal in molds. C. Crawford. No. 1,040,517; Oct. 8; Gaz. vol. 183; p. 315.
Casting of metal bodies, Flask for the. E. Pipher. No. 1,028,603; June 4; Sp. p. 1172; Gaz. vol. 179; p. 179.
Casting of metals. A. L. J. Queneau. No. 1,043,867; Nov. 12; Gaz. vol. 184; p. 319.
Casting pipe and other hollow articles, System of apparatus for. W. E. Clow. No. 1,025,123; May 7; Sp. p. 21; Gaz. vol. 178; p. 5.
Casting plants, Metal-pouring apparatus for. J. W. Brown, Jr. No. 1,034,970; Aug. 6; Gaz. vol. 181; p. 191.
Casting-reel. J. Murgas. No. 1,024,739; Apr. 30; Sp. p. 6458; Gaz. vol. 177; p. 1139.
Casting steel. E. A. Custer. No. 1,042,092; Oct. 22; Gaz. vol. 183; p. 919.
Castings, Apparatus for making tight the pores of. S. Salm. No. 1,019,532; Mar. 5; Sp. p. 1202; Gaz. vol. 176; p. 178.
Castings, Hardening steel. J. W. Gebhard. No. 1,015,554; Jan. 23; Sp. p. 5432; Gaz. vol. 174; p. 931.
Castings, Hardening steel. J. W. Gebhard. No. 1,036,995; Aug. 27; Gaz. vol. 181; p. 982.
Castings having chilled and machinable surfaces in permanent molds, Producing. E. A. Custer. No. 1,022,724; Apr. 9; Sp. p. 2093; Gaz. vol. 177; p. 359.
Castings, Making. C. M. Grey. No. 1,013,548; Jan. 2; Sp. p. 996; Gaz. vol. 174; p. 160.
Castings, Making metal. T. D. West. No. 1,025,436; May 7; Sp. p. 720; Gaz. vol. 178; p. 114.
Castings, Making metal. T. D. West. No. 1,031,305; July 2; Gaz. vol. 180; p. 161.
Castings, Mold for making metal. T. D. West. No. 1,025,437; May 7; Sp. p. 725; Gaz. vol. 178; p. 114.
Castings, Mold for making metal. T. D. West. No. 1,042,734; Oct. 29; Gaz. vol. 183; p. 1167.
Castings, Pouring-gate for. A. Erlandson. No. 1,030,066; June 18; Sp. p. 4362; Gaz. vol. 179; p. 752.
Castings, Producing. E. A. Custer. No. 1,043,404; Nov. 5; Gaz. vol. 184; p. 128.
Castings, &c., Producing patterns for. M. Kelsey. No. 1,037,489; Sept. 3; Gaz. vol. 182; p. 106.
Castings, Testing apparatus for hollow. G. C. Tallman. No. 1,017,704; Feb. 20; Sp. p. 3203; Gaz. vol. 175; p. 576.
Casualty-indicator. A. M. Mitchell. No. 1,029,550; June 11; Sp. p. 3210; Gaz. vol. 179; p. 538.
Catalogue. C. F. Beezley, Jr. No. 1,029,526; June 11; Sp. p. 3151; Gaz. vol. 179; p. 528.
Catalysts, Apparatus for producing. M. Wilbuschewitsch. No. 1,016,864; Feb. 6; Sp. p. 1392; Gaz. vol. 175; p. 215.
Catalysts, Manufacturing. M. Wilbuschewitsch. No. 1,029,901; June 18; Sp. p. 4010; Gaz. vol. 179; p. 697.
Catalysts, Regenerating consumed. M. Wilbuschewitsch. No. 1,022,347; Apr. 2; Sp. p. 1239; Gaz. vol. 177; p. 199.
Catalytic body. B. E. Eldred. No. 1,043,580; Nov. 5; Gaz. vol. 184; p. 191.
Catalytic reactions, Conducting. W. M. Grosvenor. No. 1,036,609; Aug. 27; Gaz. vol. 181; p. 854.
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Catamenial napkin. E. Sprague. No. 1,022,894; Apr. 9; Sp. p. 2431; Gaz. vol. 177; p. 415.
Catch, Safety-. J. R. Kile. No. 1,026,210; May 14; Sp. p. 2484; Gaz. vol. 178; p. 416.
Catching device, Automatic. J. W. Trew and C. McGaughey. No. 1,025,034; Apr. 30; Sp. p. 7060; Gaz. vol. 177; p. 1241.
Catheter device. S. J. Keyes. No. 1,032,611; July 16; Gaz. vol. 180; p. 691.
Catheter, Irrigating-. C. A. Ruflin. No. 1,045,326; Nov. 26; Gaz. vol. 184; p. 882.
Catnip-ball. W. E. Smith. No. 1,022,112; Apr. 2; Sp. p. 763; Gaz. vol. 177; p. 122.
Catnip-ball. W. E. Smith. No. 1,022,113; Apr. 2; Sp. p. 765; Gaz. vol. 177; p. 122.
Catnip-balls, Making. W. E. Smith. No. 1,031,095; July 2; Gaz. vol. 180; p. 88.
Cattle-guard. R. J. Dillon. No. 1,014,696; Jan. 16; Sp. p. 3580; Gaz. vol. 174; p. 612.
Cattle-guard. V. E. Kent. No. 1,016,636; Feb. 6; Sp. p. 936; Gaz. vol. 175; p. 140.
Cattle-guard. R. J. Otey. No. 1,017,014; Feb. 13; Sp. p. 1740; Gaz. vol. 175; p. 304.
Cattle-guard. J. Gabrielsen. No. 1,017,529; Feb. 13; Sp. p. 2864; Gaz. vol. 175; p. 483.
Cattle-guard. E. Engle. No. 1,028,007; May 28; Sp. p. 6400; Gaz. vol. 178; p. 1098.
Cattle-guard. E. C. Feaster. No. 1,028,457; June 4; Sp. p. 871; Gaz. vol. 179; p. 131.
Cattle-guard. J. W. Cooper. No. 1,029,854; June 18; Sp. p. 3908; Gaz. vol. 179; p. 680.
Cattle-guard. C. A. Fewell. No. 1,039,917; Oct. 1; Gaz. vol. 183; p. 82.
Cattle-guard. J. L. Lankford. No. 1,041,493; Oct. 15; Gaz. vol. 183; p. 680.
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Cattle-guard. V. E. Kent. No. 1,046,195; Dec. 3; Gaz. vol. 185; p. 136.
Cattle-guard. F. W. Lull. No. 1,046,618; Dec. 10; Gaz. vol. 185; p. 325.
Cattle-guard. C. Martin. No. 1,048,330; Dec. 24; Gaz. vol. 185; p. 974.
Cattle-staking device. R. L. Lee. No. 1,047,665; Dec. 17; Gaz. vol. 185; p. 721.
Cattle-tie. F. H. Leathers. No. 1,016,423; Feb. 6; Sp. p. 412; Gaz. vol. 175; p. 65.
Caustic liquor resulting from digestion of wood, Treating the residual. J. M. Neil. No. 1,047,132; Dec. 10; Gaz vol. 185; p. 501.
Ceiling attachment. H. Leik. No. 1,044.063; Nov. 12; Gaz. vol. 184; p. 388.
Ceiling, Ferroconcrete ribbed. J. H. A. Wrissenberg. No. 1,025,041; Apr. 30; Sp. p. 7072; Gaz. vol. 177; p. 1243.
Ceiling outlet-box. E. M. Reddy. No. 1,032,504; July 16; Gaz. vol. 180; p. 655.
Celery-bleaching apparatus. C. Russell. No. 1,048,589; Dec. 31; Gaz. vol. 185; p. 1099.
Cell-case and blank therefor. J. B. Miller. No. 1,014,081; Jan. 9; Sp. p. 2218; Gaz. vol. 174; p. 371.
Cell-case interlocker. A. W. D. Weis and J. Starman. No. 1,021,958; Apr. 2; Sp. p. 444; Gaz. vol. 177; p. 71.
Celluloid and manufacturing the same, Plastic similar to. A. Eichengrün. No. 1,015,156; Jan. 16; Sp. p. 4564; Gaz. vol. 174; p. 769.
Cellulose acetate composition and making the same. A. Eichengrün. No. 1,015,155; Jan. 16; Sp. p. 4562; Gaz. vol. 174; p. 769.
Cellulose and making such compound, Compound of acetyl. W. G. Lindsay. No. 1,041,115; Oct. 15; Gaz. vol. 183; p. 554.
Cellulose, Apparatus for treating comminuted ligno-. G. H. Tomlinson. No. 1,032,446; July 16; Gaz. vol. 180; p. 636.
Cellulose, Apparatus for treating ligno-. G. H. Tomlinson. No. 1,032,449; July 16; Gaz. vol. 180; p. 637.
Cellulose, Converting acetyl. W. G. Lindsay. No. 1,041,116; Oct. 15; Gaz. vol. 183; p. 554.
Cellulose ester. H. S. Mork. No. 1,039,782; Oct. 1; Gaz. vol. 183; p. 39.
Cellulose ester, Producing dyed. B. Borzykowski. No. 1,041,587; Oct. 15; Gaz. vol. 183; p. 709.
Cellulose-ester solution. O. Schmidt, G. Lutz, and T. Eichler. No. 1,045,895; Dec. 3; Gaz. vol. 185; p. 34.
Cellulose esters. W. H. Walker. No. 1,035,108; Aug. 6; Gaz. vol. 181; p. 235.
Cellulose, Manufacture of. F. L. Stewart. No. 1,017,023; Feb. 13; Sp. p. 1759; Gaz. vol. 175; p. 307.

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Cellulose plastic compounds, Making acetyl- W. G. Lindsay. No. 1,041,117; Oct. 15; Gaz. vol. 183; p. 554.
Cellulose plastic compounds, Making acetyl-. W. G. Lindsay. No. 1,041,118; Oct. 15; Gaz. vol. 183; p. 554.
Cellulose plastics and solvents thereof, Making acetyl-. W. G. Lindsay. No. 1,041,113; Oct. 15; Gaz. vol. 183; p. 553.
Cellulose products, Manufacture of. A. Chaumat. No. 1,027,689; May 28; Sp. p. 5691; Gaz. vol. 178; p. 991.
Cellulose products, Producing. E. Bronnert and M. Fremery. No. 1,030,251; June 18; Sp. p. 4739; Gaz. vol. 179; p. 816.
Cellulose, Solvent for acetyl. W. G. Lindsay. No. 1,027,614; May 28; Sp. p. 5529; Gaz. vol. 178; p. 967.
Cellulose, Solvent for acetyl. W. G. Lindsay. No. 1,027,615; May 28; Sp. p. 5530; Gaz. vol. 178; p. 967.
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Cellulosic materials, Acetylation of. J. Koetschet and M. Theumann. No. 1,030,311; June 25; Sp. p. 4911; Gaz. vol. 179; p. 877.
Cement and making it, Waterproof Portland. M. Toch. No. 1,029,643; June 18; Sp. p. 3405; Gaz. vol. 179; p. 606.
Cement and making same, Tile roofing-. W. J. Moeller. No. 1,045,585; Nov. 26; Gaz. vol. 184; p. 976.
Cement and making the same, White hydraulic. J. G. A. Rhodin. No. 1,017,913; Feb. 20; Sp. p. 3749; Gaz. vol. 175; p. 652.
Cement and the like and making same, Compound for waterproofing. G. P. Dieckmann. No. 1,023,926; Apr. 23; Sp. p. 4628; Gaz. vol. 177; p. 823.
Cement, &c., Apparatus for filling bags with. J. S. Fasting. No. 1,037,824; Sept. 3; Gaz. vol. 182; p. 215.
Cement block and brick machine. W. I. Kennedy. No. 1,030,094; June 18; Sp. p. 4420; Gaz. vol. 179; p. 763.
Cement compound and making the same. E. Roy. No. 1,037,836; Sept. 3; Gaz. vol. 182; p. 219.
Cement compounds, Making. W. K. Freeman. No. 1,027,118; May 21; Sp. p. 4534; Gaz. vol. 178; p. 762.
Cement constructions, Reinforcement for. A. Fleming. No. 1,031,700; July 9; Gaz. vol. 180; p. 338.
Cement-finishing machine. G. W. Sharp. No. 1,019,539; Mar. 5; Sp. p. 1214; Gaz. vol. 176; p. 180.
Cement for metallic filaments. K. Farkas. No. 1,044,156; Nov. 12; Gaz. vol. 184; p. 418.
Cement-furnace. H. Trachsler. No. 1,042,727; Oct. 29; Gaz. vol. 183; p. 1164.
Cement, Hydraulic. F. W. Brown and G. W. Bartholomew. No. 1,020,124; Mar. 12; Sp. p. 2380; Gaz. vol. 176; p. 407.
Cement-kilns, Heat-regenerator for. B. Bruhn. No. 1,043,901; Nov. 12; Gaz. vol. 184; p. 331.
Cement, Making. W. B. Hill. No. 1,017,211; Feb. 13; Sp. p. 2191; Gaz. vol. 175; p. 373.
Cement, Manufacture of hydraulic. F. W. Brown. No. 1,033,984; July 30; Gaz. vol. 180; p. 1220.
Cement, Manufacture of slag. J. G. A. Rhodin. No. 1,017,912; Feb. 20; Sp. p. 3747; Gaz. vol. 175; p. 651.
Cement material. P. F. and N. B. Apfel. No. 1,014,995; Jan. 16; Sp. p. 4264; Gaz. vol. 174; p. 716.
Cement-mixer. L. Reidel. No. 1,046,109; Dec. 3; Gaz. vol. 185; p. 107.
Cement-mixer. F. C. Horn. No. 1,047,636; Dec. 17; Gaz. vol. 185; p. 711.
Cement-mold. H. W. Clark. No. 1,019,598; Mar. 5; Sp. p. 1321; Gaz. vol. 176; p. 199.
Cement monoliths or blocks, Apparatus for constructing hollow. E. Bianchi. No. 1,040,856; Oct. 8; Gaz. vol. 183; p. 431.
Cement mortar and concrete waterproof, Rendering. R. A. Plumb. No. 1,036,898; Aug. 27; Gaz. vol. 181; p. 948.
Cement or concrete tie mold. H. E. Percival. No. 1,036,697; Aug. 27; Gaz. vol. 181; p. 882.
Cement pipes, Machine for making. F. Wienberg, L. Jörgensen, C. Jespersen, and J. K. Jörgensen. No. 1,022,285; Apr. 2; Sp. p. 1123; Gaz. vol. 177; p. 179.
Cement plates, Apparatus for making flat and corrugated. G. H. Liebau. No. 1,031,190; July 2; Gaz. vol. 180; p. 121.
Cement-post hanger. J. S. Culley. No. 1,019,604; Mar. 5; Sp. p. 1332; Gaz. vol. 176; p. 201.
Cement reservoir. W. A. Boyce and S. Fisher. No. 1,039,091; Sept. 24; Gaz. vol. 182; p. 731.

Cement-retainer. R. C. Baker. No. 1,035,674; Aug. 13; Gaz. vol. 181; p. 460.
Cement sewer-pipe, Method and machine for making. R. L. Rickman. No. 1,013,954; Jan. 9; Sp. p. 1936; Gaz. vol. 174; p. 329.
Cement slab or tile with light-pane. I. H. Freund. No. 1,041,990; Oct. 22; Gaz. vol. 183; p. 885.
Cement steel plate. H. A. Richardson. No. 1,017,914; Feb. 20; Sp. p. 3751; Gaz. vol. 175; p. 652.
Cement-tile machine, Hand or power. E. A. E. Laage. No. 1,047,419; Dec. 17; Gaz. vol. 185; p. 633.
Cementation, Uniting by. W. Hoskins. No. 1,041,287; Oct. 15; Gaz. vol. 183; p. 613.
Cementing and snipping machine. J. W. Barna. No. 1,016,387; Feb. 6; Sp. p. 335; Gaz. vol. 175; p. 53.
Cementing apparatus. J. W. Barna. No. 1,030,377; June 25; Sp. p. 5050; Gaz. vol. 179; p. 901.
Cementing-machine. M. F. Brogan. No. 1,013,735; Jan. 2; Sp. p. 1421; Gaz. vol. 174; p. 224.
Cementing-machine. R. J. Burns. No. 1,017,507; Feb. 13; Sp. p. 2818; Gaz. vol. 175; p. 476.
Cementing-machine. W. A. Neely. No. 1,027,144; May 21; Sp. p. 4584; Gaz. vol. 178; p. 770.
Cementing-machine. A. Bates and W. T. B. Roberts. No. 1,030,273; June 25; Sp. p. 4807; Gaz. vol. 179; p. 862.
Cementing-machine. F. H. Warren. No. 1,030,623; June 25; Sp. p. 5758; Gaz. vol. 179; p. 990.
Cementing-machine. C. E. Howe. No. 1,030,659; June 25; Sp. p. 5863; Gaz. vol. 179; p. 1003.
Cementing-machine. M. F. Brogan. No. 1,030,769; June 25; Sp. p. 6129; Gaz. vol. 179; p. 1041.
Cementing-machine. F. M. Furber. No. 1,043,083; Nov. 5; Gaz. vol. 184; p. 12.
Cementing-machine. F. M. Furber. No. 1,043,084; Nov. 5; Gaz. vol. 184; p. 12.
Cementing-machine. F. M. Furber. No. 1,043,085; Nov. 5; Gaz. vol. 184; p. 13.
Cementing-machine. F. M. Furber. No. 1,043,086; Nov. 5; Gaz. vol. 184; p. 13.
Cementing-machine, Hand-operated. V. P. Buck. No. 1,014,618; Jan. 9; Sp. p. 3344; Gaz. vol. 174; p. 555.
Cementitious material. H. S. Spackman and E. W. Lazell. No. 1,029,953; June 18; Sp. p. 4112; Gaz. vol. 179; p. 714.
Cementitious material. H. S. Spackman and E. W. Lazell. No. 1,029,954; June 18; Sp. p. 4120; Gaz. vol. 179; p. 714.
Cementitious products, Producing. S. W. Ramsey. No. 1,036,712; Aug. 27; Gaz. vol. 181; p. 887.
Center-stand fall-leaf table. T. M. Hobbs. No. 1,044,386; Nov. 12; Gaz. vol. 184; p. 498.
Centering device. F. L. Wheeling and F. A. Rogers. No. 1,025,728; May 7; Sp. p. 1376; Gaz. vol. 178; p. 214.
Centering device. H. Mann. No. 1,040,715; Oct. 8; Gaz. vol. 183; p. 388.
Centering instrument. A. Dénes. No. 1,038,729; Sept. 17; Gaz. vol. 182; p. 593.
Centering-machine. L. E. Whiton. No. 1,017,193; Feb. 13; Sp. p. 2145; Gaz. vol. 175; p. 367.
Centering mechanism. D. C. Mulvihill. No. 1,044,071; Nov. 12; Gaz. vol. 184; p. 391.
Centering-tool. C. Blomstrom. No. 1,028,855; June 11; Sp. p. 1699; Gaz. vol. 179; p. 297.
Centering tool and punch. G. U. Mays. No. 1,029,386; June 11; Sp. p. 2860; Gaz. vol. 179; p. 481.
Centrifugal apparatus, Governing mechanism for. J. G. Callan. No. 1,017,509; Feb. 13; Sp. p. 2823; Gaz. vol. 175; p. 476.
Centrifugal apparatus, Impeller for. R. H. Rice. No. 1,021,265; Mar. 26; Sp. p. 4799; Gaz. vol. 176; p. 876.
Centrifugal discharge mechanism. C. H. Parker. No. 1,020,307; Mar. 12; Sp. p. 2754; Gaz. vol. 176; p. 467.
Centrifugal dresser. A. R. Tattersall. No. 1,037,839; Sept. 3; Gaz. vol. 182; p. 220.
Centrifugal drier. A. R. Selden. No. 1,025,485; May 7; Sp. p. 841; Gaz. vol. 178; p. 132.
Centrifugal fan-wheel. G. E. Perry. No. 1,023,873; Apr. 23; Sp. p. 4494; Gaz. vol. 177; p. 805.
Centrifugal liquid-separators, Float-valve for. J. V. M. Risberg. No. 1,032,704; July 16; Gaz. vol. 180; p. 726.
Centrifugal machine. F. E. Coombs. No. 1,026,075; May 14; Sp. p. 2181; Gaz. vol. 178; p. 368.
Centrifugal machine. B. D. Coppage. No. 1,030,973; July 2; Gaz. vol. 180; p. 43.
Centrifugal machine. E. Jahn. No. 1,032,285; July 9; Gaz. vol. 180; p. 538.
Centrifugal machine. W. Michelsen. No. 1,040,373; Oct. 8; Gaz. vol. 183; p. 265.
Centrifugal machine. W. K. Richardson. No. 1,044,573; Nov. 19; Gaz. vol. 184; p. 592.
Centrifugal machine. J. Selwig. No. 1,046,340; Dec. 3; Gaz. vol. 185; p. 188.
Centrifugal machine. E. A. Sperry. No. 1,048,905; Dec. 31; Gaz. vol. 185; p. 1211.
Centrifugal machines, Combined conveyer and scraper for. B. D. Coppage. No. 1,028,934; June 11; Sp. p. 1887; Gaz. vol. 179; p. 326.
Centrifugal machines, Combined scraping and conveying means for. B. D. Coppage. No. 1,030,974; July 2; Gaz. vol. 180; p. 43.

Alphabetical list of inventions—Continued.

Centrifugal machines, Means for supporting. H. W. Sturges. No. 1,044,287; Nov. 12; Gaz. vol. 184; p. 465.
Centrifugal screen. H. Parker. No. 1,036,318; Aug. 20; Gaz. vol. 181; p. 721.
Centrifugal separation. J. E. Hatton and J. P. Sala. No. 1,025,059; Apr. 30; Sp. p. 7102; Gaz. vol. 177; p. 1248.
Centrifugal separator. J. J. Berrigan. No. 1,013,113; Jan. 2; Sp. p. 39; Gaz. vol. 174; p. 9.
Centrifugal separator. G. M. Lesher. No. 1,026,271; May 14; Sp. p. 2599; Gaz. vol. 178; p. 436.
Centrifugal separator. W. A. Freymuth. No. 1,033,884; July 30; Gaz. vol. 180; p. 1184.
Centrifugal separator. C. McLeod. No. 1,035,888; Aug. 20; Gaz. vol. 181; p. 571.
Centrifugal separator. W. H. Lawson. No. 1,038,607; Sept. 17; Gaz. vol. 182; p. 550.
Centrifugal separator. G. M. Duffie and W. A. Preston. No. 1,038,731; Sept. 17; Gaz. vol. 182; p. 594.
Centrifugal separator. H. De Raasloff and T. E. Brown. No. 1,044,570; Nov. 19; Gaz. vol. 184; p. 591.
Centrifugal separators, Liner for. L. J. Hedderich. No. 1,025,567; May 7; Sp. p. 1038; Gaz. vol. 178; p. 160.
Centrifugal switch. C. J. Webster. No. 1,022,904; Apr. 9; Sp. p. 2461; Gaz. vol. 177; p. 418.
Centrifugal switch. J. A. Volk, Jr. No. 1,031,893; July 9; Gaz. vol. 180; p. 405.
Centripetal engine. J. Nash. No. 1,043,962; Nov. 12; Gaz. vol. 184; p. 354.
Ceramic-ware mold. D. Crossley. No. 1,030,389; June 25; Sp. p. 5078; Gaz. vol. 179; p. 905.
Cereal grains and a product thereby obtained, Treating. A. P. Anderson. No. 1,035,838; Aug. 20; Gaz. vol. 181; p. 553.
Cereal grains, Treating and drying. A. P. Anderson. No. 1,035,839; Aug. 20; Gaz. vol. 181; p. 553.
Cereal roll-reducing machine. T. C. Nixon. No. 1,042,717; Oct. 29; Gaz. vol. 183; p. 1161.
Cereal-treating machine. J. W. Berry. No. 1,014,748; Jan. 16; Sp. p. 3688; Gaz. vol. 174; p. 630.
Cereals, Machine for treating weeviled. E. W. Hooker. No. 1,036,242; Aug. 20; Gaz. vol. 181; p. 695.
Cesspool. P. Mueller. No. 1,033,448; July 23; Gaz. vol. 180; p. 1012.
Cesspool, Area-. G. W. Schodde. No. 1,041,887; Oct. 22; Gaz. vol. 183; p. 851.
Chafing-dish pan. L. Wojidkow. No. 1,044,721; Nov. 19; Gaz. vol. 184; p. 645.
Chafing-dish stand. G. E. Savage. No. 1,030,019; June 18; Sp. p. 4248; Gaz. vol. 179; p. 735.
Chain. G. A. Lambert. No. 1,015,965; Jan. 30; Sp. p. 6319; Gaz. vol. 174; p. 1099.
Chain. W. D. Tusten. No. 1,027,226; May 21; Sp. p. 4744; Gaz. vol. 178; p. 798.
Chain. A. F. Harlan. No. 1,037,001; Aug. 27; Gaz. vol. 181; p. 984.
Chain. F. W. Wakefield. No. 1,049,179; Dec. 31; Gaz. vol. 185; p. 1303.
Chain apparatus, Hackle-. J. Good. No. 1,048,526; Dec. 31; Gaz. vol. 185; p. 1079.
Chain, Carrier-. G. S. Witham, Jr. No. 1,029,566; June 11; Sp. p. 3243; Gaz. vol. 179; p. 544.
Chain cleat, Conveyer-. F. E. Martin. No. 1,013,794; Jan. 2; Sp. p. 1538; Gaz. vol. 174; p. 245.
Chain-connector. A. Jacques. No. 1,028,217; June 4; Sp. p. 350; Gaz. vol. 179; p. 48.
Chain connector, Neck-. O. L. Gammelgaard. No. 1,027,041; May 21; Sp. p. 4338; Gaz. vol. 178; p. 736.
Chain, Conveyer-. W. M. Wilkin. No. 1,031,499; July 2; Gaz. vol. 180; p. 227.
Chain-coupling device. M. J. Greeley. No. 1,042,667; Oct. 29; Gaz. vol. 183; p. 1144.
Chain-drill. G. O. Leopold. No. 1,033,712; July 23; Gaz. vol. 180; p. 1098.
Chain-drill. G. O. Leopold. No. 1,034,258; July 30; Gaz. vol. 180; p. 1316.
Chain, Drive-. W. J. Belcher. No. 1,020,180; Mar. 12; Sp. p. 2505; Gaz. vol. 176; p. 426.
Chain, Drive-. F. L. Morse. No. 1,027,352; May 21; Sp. p. 4988; Gaz. vol. 178; p. 841.
Chain, Drive-. H. W. Allingham. No. 1,027,369; May 21; Sp. p. 5029; Gaz. vol. 178; p. 847.
Chain, Drive-. C. J. Luther. No. 1,028,893; June 11; Sp. p. 1785; Gaz. vol. 179; p. 312.
Chain, Drive-. J. F. Wagner. No. 1,046,124; Dec. 3; Gaz. vol. 185; p. 112.
Chain, Driving-. R. H. Richmond. No. 1,027,002; May 21; Sp. p. 4238; Gaz. vol. 178; p. 722.
Chain, Driving-. W. S. Morton. No. 1,039,991; Oct. 1; Gaz. vol. 183; p. 106.
Chain, Electric. W. H. Riess. No. 1,047,568; Dec. 17; Gaz. vol. 185; p. 687.
Chain fabric, Ornamental. F. Döppenschmitt. No. 1,031,632; July 2; Gaz. vol. 180; p. 272.
Chain-grip fastener. S. Migliavacca. No. 1,039,778; Oct. 1; Gaz. vol. 183; p. 38.
Chain hook, Logging-. W. E. Kempton. No. 1,039,957; Oct. 1; Gaz. vol. 183; p. 95.
Chain hook, Safety-. P. M. Beard. No. 1,047,488; Dec. 17; Gaz. vol. 185; p. 658.
Chain housing, Sprocket-. A. P. and W. E. Hoffman and E. F. Altman. No. 1,027,605; May 28; Sp. p. 5511; Gaz. vol. 178; p. 964.
Chain, Key-. R. Wachenheim. No. 1,048,011; Dec. 24; Gaz. vol. 185; p. 866.
Chain, Key-holding. J. D. Houck. No. 1,042,918; Oct. 29; Gaz. vol. 183; p. 1230.
Chain, Link. A. Günzel. No. 1,020,197; Mar. 12; Sp. p. 2544; Gaz. vol. 176; p. 432.
Chain-link. H. E. Hayward. No. 1,022,942; Apr. 9; Sp. p. 2555; Gaz. vol. 177; p. 433.
Chain-link. F. G. Breul. No. 1,034,868; Aug. 6; Gaz. vol. 181; p. 158.
Chain-link. W. D. Tusten. No. 1,037,086; Aug. 27; Gaz. vol. 181; p. 1012.
Chain-link-making machine. J. H. Baker. No. 1,032,365; July 9; Gaz. vol. 180; p. 565.
Chain-links, &c., Making. F. G. Breul. No. 1,034,867; Aug. 6; Gaz. vol. 181; p. 158.
Chain-lubricating device, Conveyer-. G. H. Mueller. No. 1,014,248; Jan. 9; Sp. p. 2582; Gaz. vol. 174; p. 431.
Chain-machine. F. P. Cady. No. 1,032,738; July 16; Gaz. vol. 180; p. 737.
Chain, Machine for making molds for cast. A. Schürhoff. No. 1,032,627; July 16; Gaz. vol. 180; p. 697.
Chain machine, Wire-. J. Coulter. No. 1,023,126; Apr. 16; Sp. p. 2947; Gaz. vol. 177; p. 534.
Chain-making machine. A. C. Pratt. No. 1,033,466; July 23; Gaz. vol. 180; p. 1018.
Chain or cord coupling. A. A. Tirrill. No. 1,031,401; July 2; Gaz. vol. 180; p. 194.
Chain-repair tool. J. N. Macdonald. No. 1,041,826; Oct. 22; Gaz. vol. 183; p. 830.
Chain, Sprocket-. J. L. Lee. No. 1,021,786; Apr. 2; Sp. p. 63; Gaz. vol. 177; p. 14.
Chain wrench. F. H. Dickson. No. 1,023,198; Apr. 16; Sp. p. 3128; Gaz. vol. 177; p. 560.
Chains, Feed apparatus for use in the manufacture of cord-. K. Wacker and E. Hildenbrand. No. 1,030,215; June 18; Sp. p. 4670; Gaz. vol. 179; p. 802.
Chains, Jack for tightening antiskid-. W. F. Edgington. No. 1,026,499; May 14; Sp. p. 3105; Gaz. vol. 178; p. 513.
Chains, Manufacture of. W. S. Potter. No. 1,018,363; Feb. 20; Sp. p. 4686; Gaz. vol. 175; p. 805.
Chains, Manufacture of. F. S. Morris and P. S. Kirke. No. 1,028,055; May 28; Sp. p. 6501; Gaz. vol. 178; p. 1112.
Chains, Manufacture of extensible. E. Burkhardt. No. 1,047,377; Dec. 17; Gaz. vol. 185; p. 620.
Chains of entangled solder-wire links, Making metal. A. Bäzner. No. 1,048,128; Dec. 24; Gaz. vol. 185; p. 907.
Chains, Safety-link for draw-bench. W. W. Kennedy. No. 1,036,641; Aug. 27; Gaz. vol. 181; p. 864.
Chair: *See* Adjustable chair; Barber's chair; Car-chair; Child's chain; Collapsible chair; Combination-chair; Convertible chair; Devotional chair; Foldable chair; Folding chair; Go-cart and high chair; High chair; Infant's posing-chair; Invalid's chair; Joint-chair; Mezzanine-chair; Morris chair; Nursery-chair; Observation-chair; Operating-chair; Osteopathic-treatment chair; Rail-chair; Rail-joint chair; Railway-chair; Railway-rail chair; Reclining-chair; Safety-chair; Specialist's chair; Telescoping chair; Theater-chair; Wheel and carrying chair; Wire chair.
Chair. R. S. Calef. No. 1,019,594; Mar. 5; Sp. p. 1313; Gaz. vol. 176; p. 198.
Chair. A. G. Eyles. No. 1,020,086; Mar. 12; Sp. p. 2300; Gaz. vol. 176; p. 394.
Chair. A. Wanner, Jr. (Reissue.) No. 13,396; Apr. 2; Sp. p. 1338; Gaz. vol. 177; p. 218.
Chair. C. A. Buffington. No. 1,023,717; Apr. 16; Sp. p. 4132; Gaz. vol. 177; p. 725.
Chair. G. R. Schweikert and W. E. Heinz. No. 1,024,526; Apr. 30; Sp. p. 5981; Gaz. vol. 177; p. 1064.
Chair. D. M. Harman. No. 1,025,266; May 7; Sp. p. 347; Gaz. vol. 178; p. 56.
Chair. J. E. Rilling. No. 1,025,645; May 7; Sp. p. 1207; Gaz. vol. 178; p. 186.
Chair. E. J. Hoff. No. 1,025,915; May 7; Sp. p. 1805; Gaz. vol. 178; p. 278.
Chair. C. J. Cain. No. 1,026,074; May 14; Sp. p. 2180; Gaz. vol. 178; p. 368.
Chair. J. A. W. Sears. No. 1,026,706; May 21; Sp. p. 3549; Gaz. vol. 178; p. 619.
Chair. F. A. Hinsky. No. 1,029,807; June 18; Sp. p. 3774; Gaz. vol. 179; p. 664.
Chair. A. G. Eyles. No. 1,033,093; July 23; Gaz. vol. 180; p. 893.
Chair. A. J. Berger and M. Abraham. No. 1,034,678; Aug. 6; Gaz. vol. 181; p. 91.
Chair. R. S. Calef. No. 1,038,083; Sept. 10; Gaz. vol. 182; p. 337.
Chair. O. L. Ostendorf. No. 1,045,599; Nov. 26; Gaz. vol. 184; p. 980.
Chair. J., A., and J. P. Barker. No. 1,048,174; Dec. 24; Gaz. vol. 185; p. 954.
Chair and couch, Combination. P. F. McCaffrey. No. 1,024,944; Apr. 30; Sp. p. 6894; Gaz. vol. 177; p. 1211.

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Chair and couch, Combination. D. Cinalli. No. 1,041,961; Oct. 22; Gaz. vol. 183; p. 875.
Chair and couch, Convertible. R. Nordin. No. 1,018,074; Feb. 20; Sp. p. 4107; Gaz. vol. 175; p. 707.
Chair and desk attachment, Combined. J. E. Burge. No. 1,023,620; Apr. 16; Sp. p. 3968; Gaz. vol. 177; p. 697.
Chair and rail-joint, Combined. F. J. Prosser. No. 1,042,266; Oct. 22; Gaz. vol. 183; p. 975.
Chair and window-cleaner's support, Combined. M. Rabinowitz. No. 1,018,341; Feb. 20; Sp. p. 4638; Gaz. vol. 175; p. 797.
Chair-arm. J., A., and J. P. Barker. No. 1,036,421; Aug. 20; Gaz. vol. 181; p. 757.
Chair attachment, Barber-. W. H. Smith. No. 1,027,919; May 28; Sp. p. 6228; Gaz. vol. 178; p. 1069.
Chair base, Revolving-office-. A. D. Pettibone. No. 1,013,813; Jan. 2; Sp. p. 1577; Gaz. vol. 174; p. 251.
Chair-brace. A. Marchand. No. 1,025,580; May 7; Sp. p. 1071; Gaz. vol. 178; p. 165.
Chair fan attachment, Rocking-. M. Hobin. No. 1,013,879; Jan. 9; Sp. p. 1768; Gaz. vol. 174; p. 303.
Chair fan attachment, Rocking-. E. C. Killebrew. No. 1,016,161; Jan. 30; Sp. p. 6719; Gaz. vol. 174; p. 1168.
Chair fan attachment, Rocking-. A. Kuring and G. Hoffman. No. 1,027,859; May 28; Sp. p. 6085; Gaz. vol. 178; p. 1049.
Chair fan attachment, Rocking-. J. Csontos. No. 1,040,155; Oct. 1; Gaz. vol. 183; p. 162.
Chair-fastener. V. A. Simmel. No. 1,049,159; Dec. 31; Gaz. vol. 185; p. 1297.
Chair-fixture, Automatic. C. L. Greilick. No. 1,032,202; July 9; Gaz. vol. 180; p. 508.
Chair-frame. A. H. Greenlund. No. 1,040,933; Oct. 8; Gaz. vol. 183; p. 457.
Chair-iron. H. G. Hunn. No. 1,044,530; Nov. 19; Gaz. vol. 184; p. 578.
Chair, ironing-board, and drying-rack, Combined. G. H. and E. J. Hartmann. No. 1,031,066; July 2; Gaz. vol. 180; p. 78.
Chair leg-rest, Rocking-. L. Aime and J. Stenger. No. 1,040,106; Oct. 1; Gaz. vol. 183; p. 145.
Chair-operating mechanism, Barber's-. K. Moluf. No. 1,031,808; July 9; Gaz. vol. 180; p. 375.
Chair-seat. J. H. B. Rea. No. 1,047,447; Dec. 17; Gaz. vol. 185; p. 643.
Chair-seats, Manufacturing. E. P. Wanner. No. 1,017,190; Feb. 13; Sp. p. 2136; Gaz. vol. 175; p. 366.
Chairs, couches, &c., Brace for. E. L. McKee. No. 1,047,428; Dec. 17; Gaz. vol. 185; p. 636.
Chairs, Sanitary tray for. C. J. Snideman and F. H. Henley. No. 1,021,901; Apr. 2; Sp. p. 317; Gaz. vol. 177; p. 52.
Chairs, tables, or the like, Foldable frame for. A. G. Cole. No. 1,027,692; May 28; Sp. p. 5695; Gaz. vol. 178; p. 992.
Chalice, Hygienic. C. J. Ljunggren. No. 1,028,752; June 4; Sp. p. 1480; Gaz. vol. 179; p. 229.
Chalice, Hygienic. C. J. Ljunggren. No. 1,031,858; July 9; Gaz. vol. 180; p. 393.
Chalk-holder. L. Pelouquin. No. 1,016,953; Feb. 13; Sp. p. 1608; Gaz. vol. 175; p. 283.
Chalk-holder. G. F. Miller. No. 1,040,724; Oct. 8; Gaz. vol. 183; p. 391.
Chalk-holder. V. Sanseviers. No. 1,049,152; Dec. 31; Gaz. vol. 185; p. 1295.
Chalk sharpener, receptacle, and paper-weight, Tailor's. H. J. Mayer. No. 1,018,768; Feb. 27; Sp. p. 5650; Gaz. vol. 175; p. 976.
Chamber, Expansible. H. E. Oxnard. No. 1,038,636; Sept. 17; Gaz. vol. 182; p. 562.
Chance device. A. C. Nelson. No. 1,019,910; Mar. 12; Sp. p. 1939; Gaz. vol. 176; p. 336.
Chandelier. A. Sechrist. No. 1,017,694; Feb. 20; Sp. p. 3183; Gaz. vol. 175; p. 573.
Chandelier. A. Sechrist. No. 1,024,369; Apr. 23; Sp. p. 5556; Gaz. vol. 177; p. 974.
Chandelier. A. Sechrist. No. 1,024,809; Apr. 30; Sp. p. 6614; Gaz. vol. 177; p. 1163.
Chandelier. S. G. Camp. No. 1,031,241; July 2; Gaz. vol. 180; p. 139.
Chandelier. J. Czerny. No. 1,032,660; July 16; Gaz. vol. 180; p. 709.
Chandelier. A. Sechrist. No. 1,045,084; Nov. 19; Gaz. vol. 184; p. 771.
Chandelier and fixture. W. H. Fisher. No. 1,045,273; Nov. 26; Gaz. vol. 184; p. 865.
Chandelier, Electric. S. Trood. No. 1,035,061; Aug. 6; Gaz. vol. 181; p. 219.
Chandelier, Folding. W. Lumley. No. 1,023,085; Apr. 9; Sp. p. 2832; Gaz. vol. 177; p. 482.
Chandelier-support, Adjustable. R. Daugherty. No. 1,039,106; Sept. 24; Gaz. vol. 182; p. 736.
Change-delivering device. C. Edenfeldt. No. 1,039,913; Oct. 1; Gaz. vol. 183; p. 81.
Change-making apparatus. E. N. Kleinbaum. No. 1,036,645; Aug. 27; Gaz. vol. 181; p. 865.
Change-making machine. C. Ulmer. No. 1,020,466; Mar. 19; Sp. p. 3081; Gaz. vol. 176; p. 558.
Change-making machine, Automatic. F. L. Nay. No. 1,017,447; Feb. 13; Sp. p. 2702; Gaz. vol. 175; p. 456.
Channel-flap opener and moistener. J. Elderkin. No. 1,015,729; Jan. 23; Sp. p. 5814; Gaz. vol. 174; p. 991.
Channel-furnace. J. W. H. Hamilton. No. 1,035,699; Aug. 13; Gaz. vol. 181; p. 468.
Channel-furnace. A. H. Cowles. No. 1,040,895; Oct. 8; Gaz. vol. 183; p. 444.
Channel-furnace. N. V. Hansell. No. 1,043,695; Nov. 5; Gaz. vol. 184; p. 229.
Channeling-machine. A. Ball. No. 1,015,258; Jan. 16; Sp. p. 4772; Gaz. vol. 174; p. 803.
Channeling-machine. J. G. Ross. No. 1,029,227; June 11; Sp. p. 2506; Gaz. vol. 179; p. 426.
Channeling-machine. A. H. Prenzel. No. 1,030,536; June 25; Sp. p. 5449; Gaz. vol. 179; p. 957.
Channeling-machine. J. G. Ross. No. 1,030,614; June 25; Sp. p. 5723; Gaz. vol. 179; p. 986.
Channeling-machine. F. E. Bertrand. No. 1,030,704; June 25; Sp. p. 5962; Gaz. vol. 179; p. 1018.
Channeling-machine. F. E. Bertrand. No. 1,030,705; June 25; Sp. p. 5969; Gaz. vol. 179; p. 1018.
Channeling-machine. F. E. Bertrand. No. 1,030,707; June 25; Sp. p. 5975; Gaz. vol. 179; p. 1019.
Channeling-machine. F. E. Bertrand. No. 1,030,708; June 25; Sp. p. 5977; Gaz. vol. 179; p. 1019.
Channeling-machine. F. E. Bertrand. No. 1,030,709; June 25; Sp. p. 5981; Gaz. vol. 179; p. 1019.
Channeling-machine. F. E. Bertrand. No. 1,030,710; June 25; Sp. p. 5983; Gaz. vol. 179; p. 1020.
Channeling-machine. J. E. Thayer. No. 1,035,268; Aug. 13; Gaz. vol. 181; p. 321.
Channeling-machines, Adjustable work support and gage for. A. H. Prenzel. (Reissue.) No. 13,375; Feb. 27; Sp. p. 6191; Gaz. vol. 175; p. 1064.
Channeling-tool. G. W. Carter. No. 1,015,377; Jan. 23; Sp. p. 5054; Gaz. vol. 174; p. 871.
Chaplet. J. I. Fasy. No. 1,023,633; Apr. 16; Sp. p. 3995; Gaz. vol. 177; p. 701.
Chaplet, Expanded-metal. P. H. Batten. No. 1,016,389; Feb. 6; Sp. p. 341; Gaz. vol. 175; p. 54.
Character-forming machine. T. M. Lilleberg. No. 1,028,037; May 28; Sp. p. 6468; Gaz. vol. 178; p. 1107.
Chart and indicator therefor, Astrological. H. W. Kuester. No. 1,019,663; Mar. 5; Sp. p. 1437; Gaz. vol. 176; p. 222.
Chart, Astigmatic. G. O. Nicholson. No. 1,013,428; Jan. 2; Sp. p. 747; Gaz. vol. 174; p. 118.
Chart, Color-. O. A. Fors. No. 1,041,765; Oct. 22; Gaz. vol. 183; p. 807.
Chart, Etymological. E. F. Southworth. No. 1,019,545; Mar. 5; Sp. p. 1224; Gaz. vol. 176; p. 182.
Chart for determining the flux of light. A. A. Wohlauer. No. 1,034,943; Aug. 6; Gaz. vol. 181; p. 181.
Chart, Guide-. J. Rindall. No. 1,039,322; Sept. 24; Gaz. vol. 182; p. 813.
Chart, Tailor's adjustable. G. K. Suzuki. No. 1,046,674; Dec. 10; Gaz. vol. 185; p. 345.
Chart, Tally-. H. F. Cuntz. No. 1,023,457; Apr. 16; Sp. p. 3629; Gaz. vol. 177; p. 644.
Chart, Tariff-. J. H. Robinson. No. 1,029,085; June 11; Sp. p. 2214; Gaz. vol. 179; p. 378.
Charting and navigating apparatus, Nautical. M. Roca. No. 1,016,176; Jan. 30; Sp. p. 6742; Gaz. vol. 174; p. 1172.
Chassis. W. G. Wagenhals. No. 1,030,357; June 25; Sp. p. 5012; Gaz. vol. 179; p. 894.
Check, Combination-. M. Daly. No. 1,028,684; June 4; Sp. p. 1329; Gaz. vol. 179; p. 205.
Check-controlled apparatus. Z. T. Pointer. No. 1,031,087; July 2; Gaz. vol. 180; p. 85.
Check-controlled apparatus. J. B. Kaighn. No. 1,047,651; Dec. 17; Gaz. vol. 185; p. 717.
Check-controlled apparatus, Repeating mechanism for. F. C. Kainer. No. 1,036,258; Aug. 20; Gaz. vol. 181; p. 700.
Check-controlled mechanism. C. C. Travis, B. M. Davis, and A. D. Antoine. No. 1,024,537; Apr. 30; Sp. p. 6005; Gaz. vol. 177; p. 1068.
Check-controlled mechanism. C. C. Travis and A. D. Antoine. No. 1,043,374; Nov. 5; Gaz. vol. 184; p. 118.
Check-holder. E. E. Kaech. No. 1,022,682; Apr. 9; Sp. p. 1972; Gaz. vol. 177; p. 342.
Check holder, Time-. F. Kees. No. 1,026,268; May 14; Sp. p. 2595; Gaz. vol. 178; p. 434.
Check holding, displaying, and indorsing machine. E. F. Chandler. No. 1,032,378; July 16; Gaz. vol. 180; p. 614.
Check-hook. A. F. Cyfers. No. 1,048,048; Dec. 24; Gaz. vol. 185; p. 879.
Check-lock. C. E. Freeland. No. 1,022,473; Apr. 9; Sp. p. 1521; Gaz. vol. 177; p. 273.
Check, Manifolding salesman's. E. Z. Lewis. No. 1,024,731; Apr. 30; Sp. p. 6444; Gaz. vol. 177; p. 1136.
Check, Manifolding salesman's. E. Z. Lewis. No. 1,039,766; Oct. 1; Gaz. vol. 183; p. 33.
Check-perforator. M. H. Page. No. 1,039,789; Oct. 1; Gaz. vol. 183; p. 41.
Check-protecting machine. C. Hines and G. Bowers. No. 1,034,238; July 30; Gaz. vol. 180; p. 1309.
Check, Protective. E. M. Jones. No. 1,028,570; June 4; Sp. p. 1106; Gaz. vol. 179; p. 168.

Alphabetical list of inventions—Continued.

Check-protector. L. M. Todd and C. G. Tiefel. No. 1,030,690; June 25; Sp. p. 5927; Gaz. vol. 179; p. 1012.
Check, Rebound-. W. A. Finley. No. 1,040,917; Oct. 8; Gaz. vol. 183; p. 452.
Check-receiving recorder, Time-controlled workman's-. H. Bates. No. 1,027,797; May 28; Sp. p. 5901; Gaz. vol. 178; p. 1026.
Check, Recoil-. W. A. Johnson. No. 1,034,115; July 30; Gaz. vol. 180; p. 1265.
Check-rower, Wireless. W. N. Corbit. No. 1,029,595; June 18; Sp. p. 3310; Gaz. vol. 179; p. 588.
Checks and the like, Apparatus for issuing metal. W. G. Gilmore. No. 1,029,603; June 18; Sp. p. 3325; Gaz. vol. 179; p. 591.
Checker-board, Electric. R. C. Jackson. No. 1,043,318; Nov. 5; Gaz. vol. 184; p. 98.
Checking device. H. H. Bottom. No. 1,048,130; Dec. 24; Gaz. vol. 185; p. 907.
Checking system and check therefor. C. Mallon. No. 1,015,573; Jan. 23; Sp. p. 5481; Gaz. vol. 174; p. 938.
Checkrein-hook for harness. F. B. Shaw. No. 1,019,704; Mar. 5; Sp. p. 1512; Gaz. vol. 176; p. 234.
Checkrein-spring. S. E. Harsh. No. 1,040,195; Oct. 1; Gaz. vol. 183; p. 175.
Checkrein-support. O. H. Seiltz. No. 1,040,787; Oct. 8; Gaz. vol. 183; p. 411.
Cheek-distender. E. M. Grindle. No. 1,025,265; May 7; Sp. p. 346; Gaz. vol. 178; p. 56.
Cheese, butter, soap, lard, &c., Appliance for cutting. J. Ashton. No. 1,027,972; May 28; Sp. p. 6332; Gaz. vol. 178; p. 1087.
Cheese-curd mixer. R. A. Schultz. No. 1,045,896; Dec. 3; Gaz. vol. 185; p. 34.
Cheese-cutter. T. C. Braskett. (Reissue.) No. 13,449; July 30; Gaz. vol. 180; p. 1368.
Cheese-cutter. I. E. Lee. No. 1,041,638; Oct. 15; Gaz. vol. 183; p. 726.
Cheese-cutter. R. Pinto. No. 1,044,080; Nov. 12; Gaz. vol. 184; p. 394.
Cheese-cutter, Computing. J. H. Osborne. No. 1,039,179; Sept. 24; Gaz. vol. 182; p. 761.
Cheese-cutting machine. F. Decker. No. 1,022,125; Apr. 2; Sp. p. 786; Gaz. vol. 177; p. 125.
Cheese-hoop. O. W. Stroota. No. 1,018,789; Feb. 27; Sp. p. 5688; Gaz. vol. 175; p. 983.
Cheese-hoop. E. C. Damrow. No. 1,031,532; July 2; Gaz. vol. 180; p. 237.
Cheese-making, Agitator for. A. Christensen. No. 1,026,973; May 21; Sp. p. 4172; Gaz. vol. 178; p. 712.
Cheese-making machine. W. Behm. No. 1,044,851; Nov. 19; Gaz. vol. 184; p. 690.
Cheese-making machine. E. Veeman. No. 1,046,906; Dec. 10; Gaz. vol. 185; p. 424.
Cheese-press. M. Rohde, Jr. No. 1,045,190; Nov. 26; Gaz. vol. 184; p. 835.
Cheese-rack, Rotary. H. Naumann. No. 1,028,593; June 4; Sp. p. 1156; Gaz. vol. 179; p. 176.
Cheese-server. E. P. Daution. No. 1,047,920; Dec. 24; Gaz. vol. 185; p. 838.
Chemical apparatus. B. E. Eldred. No. 1,043,581; Nov. 5; Gaz. vol. 184; p. 192.
Chemical compounds, Method of and apparatus for reducing. E. Weintraub. No. 1,046,043; Dec. 3; Gaz. vol. 185; p. 84.
Chemical compounds, Reduction of. E. Weintraub. No. 1,019,394; Mar. 5; Sp. p. 910; Gaz. vol. 176; p. 134.
Chemical reactions, Process and apparatus for producing. J. L. R. Hayden. No. 1,046,421; Dec. 3; Gaz. vol. 185; p. 218.
Chemical vessel. B. E. Eldred. No. 1,043,579; Nov. 5; Gaz. vol. 184; p. 191.
Chenille-cutting machine. G. Hedrich. No. 1,042,553; Oct. 29; Gaz. vol. 183; p. 1102.
Chenille fabric. C. B. Young. No. 1,034,671; Aug. 6; Gaz. vol. 181; p. 89.
Cherry extract and making same. E. G. Ressencourt. No. 1,036,338; Aug. 20; Gaz. vol. 181; p. 728.
Cherry-seeder. C. S. Hendrick. No. 1,035,008; Aug. 6; Gaz. vol. 181; p. 203.
Cherry-seeder. H. G. Ingram. No. 1,039,750; Oct. 1; Gaz. vol. 183; p. 27.
Cherry-seeding machine. R. McDowell. No. 1,048,331; Dec. 24; Gaz. vol. 185; p. 974.
Cherry-stemming device. R. S. Thompson. No. 1,022,609; Apr. 9; Sp. p. 1815; Gaz. vol. 177; p. 317.
Cherry-stemming machine. M. E. Dunkley. No. 1,029,918; June 18; Sp. p. 4048; Gaz. vol. 179; p. 703.
Chest: *See* Food-preserving chest; Insect-proof chest; Jewel-chest; Safety-chest.
Chest-protector. E. C. R. Schmidt. No. 1,016,444; Feb. 6; Sp. p. 477; Gaz. vol. 175; p. 73.
Chicken-separator. I. J. Ploughe. No. 1,043,140; Nov. 5; Gaz. vol. 184; p. 33.
Chicory-root, Treating. R. Porath. No. 1,022,047; Apr. 2; Sp. p. 630; Gaz. vol. 177; p. 100.
Child's chair. M. L. Beistle. No. 1,022,767; Apr. 9; Sp. p. 2181; Gaz. vol. 177; p. 374.
Chilian mill. S. H. Pitkin and J. H. Stratton. No. 1,031,730; July 9; Gaz. vol. 180; p. 348.
Chimney. L. E. Clawson. No. 1,042,085; Oct. 22; Gaz. vol. 183; p. 916.
Chimney. S. Heath. No. 1,047,630; Dec. 17; Gaz. vol. 185; p. 709.
Chimney-cap. F. Funaro. No. 1,015,169; Jan. 16; Sp. p. 4585; Gaz. vol. 174; p. 773.
Chimney-cap. A. F. Lieske. No. 1,029,072; June 11; Sp. p. 2171; Gaz. vol. 179; p. 374.
Chimney cap and ventilator. J. Geddes. No. 1,019,889; Mar. 12; Sp. p. 1892; Gaz. vol. 176; p. 330.
Chimney cap and ventilator. O. B. Madison. No. 1,035,024; Aug. 6; Gaz. vol. 181; p. 207.
Chimney-cleaner. D. Johnston. No. 1,030,733; June 25; Sp. p. 6034; Gaz. vol. 179; p. 1028.
Chimney-cleaner. M. Miyamoto. No. 1,040,728; Oct. 8; Gaz. vol. 183; p. 392.
Chimney-cleaner. C. H. Peardon. No. 1,048,868; Dec. 31; Gaz. vol. 185; p. 1198.
Chimney-flues, Means for cleaning. C. F. Broadhurst. No. 1,030,456; June 25; Sp. p. 5222; Gaz. vol. 179; p. 929.
Chimney-holder. T. L. Blythe. No. 1,044,857; Nov. 19; Gaz. vol. 184; p. 692.
Chimney, Incandescent-mantle. B. F. Harman. No. 1,024,334; Apr. 23; Sp. p. 5502; Gaz. vol. 177; p. 964.
Chimney-jacket. A. Newell. No. 1,047,553; Dec. 17; Gaz. vol. 185; p. 682.
Chimney-mold. M. Stieler. No. 1,041,368; Oct. 15; Gaz. vol. 183; p. 639.
Chimney-top, Draft-increasing. E. Bos. No. 1,033,060; July 16; Gaz. vol. 180; p. 844.
Chimney top or ventilator. J. L. Phillips. No. 1,028,958; June 11; Sp. p. 1930; Gaz. vol. 179; p. 333.
Chimneys, Baffle-plate for. Z. Hoenstine. No. 1,043,837; Nov. 12; Gaz. vol. 184; p. 309.
Chimneys having open fireplaces, Adjustable form for smoke-chamber construction for. L. Jack. No. 1,021,985; Apr. 2; Sp. p. 501; Gaz. vol. 177; p. 80.
Chinaware for baking, Packing. J. Pass and W. Cannan, Jr. No. 1,036,319; Aug. 20; Gaz. vol. 181; p. 721.
Chip-holder. W. P. Fornfinne. No. 1,039,112; Sept. 24; Gaz. vol. 182; p. 739.
Chipping-machine. J. R. and T. Ray. No. 1,039,441; Sept. 24; Gaz. vol. 182; p. 854.
Chipping or hammering tool. S. W. Gooch. No. 1,048,685; Dec. 31; Gaz. vol. 185; p. 1135.
Chiropractic table. A. A. Griffin. No. 1,029,751; June 18; Sp. p. 3657; Gaz. vol. 179; p. 645.
Chiropractic table. J. M. Myers. No. 1,042,252; Oct. 22; Gaz. vol. 183; p. 971.
Chiropractor's adjusting-table. J. H. Schenck. No. 1,035,054; Aug. 6; Gaz. vol. 181; p. 217.
Chiropractor's adjusting-table. J. A. Coultrup. No. 1,036,573; Aug. 27; Gaz. vol. 181; p. 842.
Chisel, Granite-. J. H. Jenkins. No. 1,024,940; Apr. 30; Sp. p. 6887; Gaz. vol. 177; p. 1209.
Chisel-holder. W. Steen. No. 1,024,039; Apr. 23; Sp. p. 4864; Gaz. vol. 177; p. 862.
Chlor-aralkyl-sulfo-chlorids and making them. O. Schmidt. No. 1,027,908; May 28; Sp. p. 6210; Gaz. vol. 178; p. 1066.
Chloral derivatives containing the radical of a fatty acid. N. Sulzberger. No. 1,025,889; May 7; Sp. p. 1751; Gaz. vol. 178; p. 269.
Chlorinated phenol esters and of oxybenzyl alcohols, oxybenzaldehydes, and oxybenzoic acids, Manufacture of. F. Raschig and M. Köbner. No. 1,023,758; Apr. 16; Sp. p. 4200; Gaz. vol. 177; p. 738.
Chock. T. J. Moss. No. 1,035,381; Aug. 13; Gaz. vol. 181; p. 363.
Chock-block. L. L. Tyler. No. 1,047,465; Dec. 17; Gaz. vol. 185; p. 650.
Chocolate-coating machines, Flooding device for. T. G. Hollis and S. Gibney. No. 1,029,124; June 11; Sp. p. 2290; Gaz. vol. 179; p. 391.
Chocolate compound and preparing the same. A. W. Chase. No. 1,038,723; Sept. 17; Gaz. vol. 182; p. 591.
Chocolate-cooler, Rotatable. R. C. Pryke. No. 1,033,931; July 30; Gaz. vol. 180; p. 1201.
Chocolate-dipping machine. L. M. Lange. No. 1,022,792; Apr. 9; Sp. p. 2228; Gaz. vol. 177; p. 382.
Chocolate-grinding machine. A. L. Bausman. No. 1,035,303; Aug. 13; Gaz. vol. 181; p. 334.
Chocolate. Manufacturing porous. R. Dierbach. No. 1,044,758; Nov. 19; Gaz. vol. 184; p. 659.
Chocolate mass. Device for filling forms with. I. Achilli. No. 1,043,790; Nov. 12; Gaz. vol. 184; p. 293.
Chocolate masses, &c., Apparatus for refining. F. E. F. Neumann. No. 1,026,110; May 14; Sp. p. 2260; Gaz. vol. 178; p. 381.
Cholesterin preparation. M. Stern. No. 1,034,161; July 30; Gaz. vol. 180; p. 1282.
Chopper: *See* Cotton-chopper; Meat-chopper; Provision-chopper; Stalk-chopper.
Christmas-tree and standard holder. F. Rossmeissl. No. 1,028,787; June 4; Sp. p. 1546; Gaz. vol. 179; p. 241.
Christmas-tree holder. C. A. Black, Jr. No. 1,015,934; Jan. 30; Sp. p. 6250; Gaz. vol. 174; p. 1089.
Christmas-tree holder. H. Trilling. No. 1,040,593; Oct. 8; Gaz. vol. 183; p. 343.
Chromatrope. H. Van Altena. No. 1,041,380; Oct. 15; Gaz. vol. 183; p. 643.

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Chuck. D. Weir. No. 1,022,166; Apr. 2; Sp. p. 878; Gaz. vol. 177; p. 139.
Chuck. E. C. Schmelzkopf. No. 1,025,162; May 7; Sp. p. 108; Gaz. vol. 178; p. 20.
Chuck. V. J. Wahlstrom. No. 1,026,187; May 14; Sp. p. 2416; Gaz. vol. 178; p. 406.
Chuck. O. L. Fogleman. No. 1,028,562; June 4; Sp. p. 1088; Gaz. vol. 179; p. 165.
Chuck. F. J. Cornil. No. 1,033,547; July 23; Gaz. vol. 180; p. 1045.
Chuck. L. E. Whiton. No. 1,037,385; Sept. 3; Gaz. vol. 182; p. 70.
Chuck. H. S. Hubbell. No. 1,038,755; Sept. 17; Gaz. vol. 182; p. 603.
Chuck. G. T. Trundle. No. 1,044,299; Nov. 12; Gaz. vol. 184; p. 469.
Chuck, Automatic. P. Catucci. No. 1,034,419; Aug. 6; Gaz. vol. 181; p. 7.
Chuck, Bevel-gear. C. Stvanek. No. 1,022,761; Apr. 9; Sp. p. 2174; Gaz. vol. 177; p. 373.
Chuck-bottoming device, Lathe-. E. Rivett. No. 1,014,773; Jan. 16; Sp. p. 3750; Gaz. vol. 174; p. 638.
Chuck, Centering-. G. E. Greenleaf and D. H. Teas. No. 1,017,968; Feb. 20; Sp. p. 3869; Gaz. vol. 175; p. 669.
Chuck, Core-. E. R. Richards. No. 1,037,988; Sept. 10; Gaz. vol. 182; p. 307.
Chuck, Drill-. R. M. Russell. No. 1,018,008; Feb. 20; Sp. p. 3949; Gaz. vol. 175; p. 683.
Chuck, Drill-. O. J. F. Bergsten. No. 1,024,172; Apr. 23; Sp. p. 5172; Gaz. vol. 177; p. 908.
Chuck, Drill-. G. W. Emrick. No. 1,030,988; July 2; Gaz. vol. 180; p. 48.
Chuck, Drill-. H. E. Van Ness. No. 1,042,507; Oct. 29; Gaz. vol. 183; p. 1087.
Chuck, Drill-. R. M. Reay. No. 1,045,886; Dec. 3; Gaz. vol. 185; p. 32.
Chuck for holding and centering gears. G. W. Sponable. No. 1,021,011; Mar. 26; Sp. p. 4262; Gaz. vol. 176; p. 791.
Chuck for holding gears. G. K. Garvin and E. J. McClellan. No. 1,036,994; Aug. 27; Gaz. vol. 181; p. 981.
Chuck for railway rolling-stock. H. W. Braun. No. 1,041,236; Oct. 15; Gaz. vol. 183; p. 594.
Chuck-jaw. E. M. Graham. No. 1,017,408; Feb. 13; Sp. p. 2604; Gaz. vol. 175; p. 441.
Chuck-jaw. G. F. Griggs and J. A. Henderson. No. 1,020,492; Mar. 19; Sp. p. 3138; Gaz. vol. 176; p. 566.
Chuck, Lathe-. W. E. Clark. No. 1,025,784; May 7; Sp. p. 1479; Gaz. vol. 178; p. 234.
Chuck, Lathe-. J. H. Cook. No. 1,048,944; Dec. 31; Gaz. vol. 185; p. 1224.
Chuck, Machine-. A. E. Church. No. 1,013,373; Jan. 2; Sp. p. 627; Gaz. vol. 174; p. 99.
Chuck, Magnetic. O. S. Walker. No. 1,013,574; Jan. 2; Sp. p. 1043; Gaz. vol. 174; p. 166.
Chuck, Magnetic. L. W. Downes. No. 1,036,976; Aug. 27; Gaz. vol. 181; p. 975.
Chuck, Mining-drill. J. L. Dabadie. No. 1,044,029; Nov. 12; Gaz. vol. 184; p. 376.
Chuck, Multiple-unit. L. W. Downes. No. 1,036,977; Aug. 27; Gaz. vol. 181; p. 975.
Chuck, Piston-ring. D. F. Domizi. No. 1,024,882; Apr. 30; Sp. p. 6759; Gaz. vol. 177; p. 1189.
Chuck, Revoluble work-feeding. C. F. Coda. No. 1,030,283; June 25; Sp. p. 4839; Gaz. vol. 179; p. 866.
Chuck, Self-locking drill-. W. H. Caster. No. 1,023,067; Apr. 9; Sp. p. 2797; Gaz. vol. 177; p. 476.
Chuck, Self-tightening. F. W. Kupke. No. 1,043,114; Nov. 5; Gaz. vol. 184; p. 23.
Chuck, Vibratory. J. P. Cleal. No. 1,027,402; May 28; Sp. p. 5108; Gaz. vol. 178; p. 897.
Chucks, Insert-jaws for lathe-. J. E. Gearhart. No. 1,013,289; Jan. 2; Sp. p. 453; Gaz. vol. 174; p. 70.
Churn. J. B. Dyer and J. D. Hobbs. No. 1,015,383; Jan. 23; Sp. p. 5064; Gaz. vol. 174; p. 873.
Churn. R. S. Devney. No. 1,016,218; Jan. 30; Sp. p. 6824; Gaz. vol. 174; p. 1186.
Churn. T. P. Callicott. No. 1,016,474; Feb. 6; Sp. p. 542; Gaz. vol. 175; p. 83.
Churn. S. E. Felts. No. 1,017,522; Feb. 13; Sp. p. 2851; Gaz. vol. 175; p. 481.
Churn. W. N. Jones. No. 1,017,554; Feb. 13; Sp. p. 2905; Gaz. vol. 175; p. 491.
Churn. I. V. Ricker. No. 1,017,690; Feb. 20; Sp. p. 3177; Gaz. vol. 175; p. 572.
Churn. F. Kronenberger. No. 1,018,505; Feb. 27; Sp. p. 5036; Gaz. vol. 175; p. 886.
Churn. P. J. Lawler. No. 1,018,508; Feb. 27; Sp. p. 5047; Gaz. vol. 175; p. 887.
Churn. C. L. Wall. No. 1,018,947; Feb. 27; Sp. p. 6007; Gaz. vol. 175; p. 1036.
Churn. C. R. Simms. No. 1,020,162; Mar. 12; Sp. p. 2463; Gaz. vol. 176; p. 419.
Churn. J. M. Pierce. No. 1,020,368; Mar. 12; Sp. p. 2869; Gaz. vol. 176; p. 486.
Churn. W. J. Devine. No. 1,020,806; Mar. 19; Sp. p. 3832; Gaz. vol. 176; p. 671.
Churn. F. Buehler and A. P. Goff. No. 1,020,883; Mar. 19; Sp. p. 3995; Gaz. vol. 176; p. 696.
Churn. W. B. Miller. No. 1,021,621; Mar. 26; Sp. p. 5560; Gaz. vol. 176; p. 998.
Churn. W. D. D. Bowen. No. 1,021,966; Apr. 2; Sp. p. 465; Gaz. vol. 177; p. 74.
Churn. J. R. Gilda. No. 1,023,075; Apr. 9; Sp. p. 2809; Gaz. vol. 177; p. 478.
Churn. A. Fay. No. 1,023,368; Apr. 16; Sp. p. 3451; Gaz. vol. 177; p. 616.
Churn. C. S. Waybright. No. 1,023,696; Apr. 16; Sp. p. 4095; Gaz. vol. 177; p. 719.
Churn. W. B. Woodruff. No. 1,026,970; May 21; Sp. p. 4169; Gaz. vol. 178; p. 711.
Churn. R. Chasteen. No. 1,031,524; July 2; Gaz. vol. 180; p. 234.
Churn. A. Blair. No. 1,033,375; July 23; Gaz. vol. 180; p. 990.
Churn. B. R. Brown. No. 1,033,667; July 23; Gaz. vol. 180; p. 1085.
Churn. N. J. Johnson and R. L. Stalaus. No. 1,034,244; July 30; Gaz. vol. 180; p. 1311.
Churn. J. H. Burch. No. 1,035,685; Aug. 13; Gaz. vol. 181; p. 464.
Churn. L. Hofer. No. 1,037,624; Sept. 3; Gaz. vol. 182; p. 149.
Churn. J. W. Miller. No. 1,039,572; Sept. 24; Gaz. vol. 182; p. 902.
Churn. B. M. Griffith and W. T. McCullough. No. 1,040,664; Oct. 8; Gaz. vol. 183; p. 371.
Churn. C. S. Waybright. No. 1,042,628; Oct. 29; Gaz. vol. 183; p. 1130.
Churn. J. N. Nall. No. 1,045,872; Dec. 3; Gaz. vol. 185; p. 26.
Churn. C. W. Moore. No. 1,046,320; Dec. 3; Gaz. vol. 185; p. 182.
Churn. H. D. Miller. No. 1,046,832; Dec. 10; Gaz. vol. 185; p. 400.
Churn. J. B. Sellman. No. 1,047,312; Dec. 17; Gaz. vol. 185; p. 597.
Churn. N. J. Wold. No. 1,047,475; Dec. 17; Gaz. vol. 185; p. 654.
Churn. W. W. Giddens. No. 1,048,523; Dec. 31; Gaz. vol. 185; p. 1078.
Churn. W. P. and L. N. Everett and D. B. Pate. No. 1,048,669; Dec. 31; Gaz. vol. 185; p. 1130.
Churn and butter-worker, Combined. R. B. Disbrow. No. 1,018,036; Feb. 20; Sp. p. 4006; Gaz. vol. 175; p. 693.
Churn and butter-worker, Combined. L. A. Disbrow. No. 1,018,554; Feb. 27; Sp. p. 5203; Gaz. vol. 175; p. 904.
Churn and butter-worker, Combined. R. B. Disbrow. No. 1,029,798; June 18; Sp. p. 3756; Gaz. vol. 179; p. 661.
Churn and butter-worker, Combined. D. E. Virtue. No. 1,030,356; June 25; Sp. p. 5011; Gaz. vol. 179; p. 893.
Churn and dasher. F. D. Kincaid. No. 1,026,517; May 14; Sp. p. 3148; Gaz. vol. 178; p. 519.
Churn attachment. S. J. Prater. No. 1,042,964; Oct. 29; Gaz. vol. 183; p. 1244.
Churn, butter-worker, and cream-ripener, Combined. R. B. Disbrow. No. 1,043,908; Nov. 12; Gaz. vol. 184; p. 334.
Churn-dasher. L. Huberty. No. 1,040,682; Oct. 8; Gaz. vol. 183; p. 377.
Churn-operating mechanism. W. H. Colman. No. 1,030,873; July 2; Gaz. vol. 180; p. 9.
Churn-operating mechanism. R. A. Cunningham. No. 1,049,056; Dec. 31; Gaz. vol. 185; p. 1263.
Churn, Rotary. H. T. Martin. No. 1,020,300; Mar. 12; Sp. p. 2745; Gaz. vol. 176; p. 465.
Chute. J. W. Ogden. No. 1,031,460; July 2; Gaz. vol. 180; p. 213.
Chute. J. B. Thompson. No. 1,033,492; July 23; Gaz. vol. 180; p. 1027.
Chute. J. M. Triggs. No. 1,035,662; Aug. 13; Gaz. vol. 181; p. 457.
Chute and locking device therefor, Fuel-. E. Kleinknecht. No. 1,047,244; Dec. 17; Gaz. vol. 185; p. 571.
Chute-closure. H. S. Gardner. No. 1,026,641; May 14; Sp. p. 3398; Gaz. vol. 178; p. 559.
Chute, Coal-. R. A. Dyer. No. 1,030,653; June 25; Sp. p. 5843; Gaz. vol. 179; p. 1001.
Chute, Delivery-. H. S. Gardner. No. 1,021,404; Mar 26; Sp. p. 5121; Gaz. vol. 176; p. 926.
Chute, Hog-. J. Rada. No. 1,036,147; Aug. 20; Gaz. vol. 181; p. 661.
Chute, Intercepting-. J. C. and W. W. Dorsey. No. 1,015,480; Jan. 23; Sp. p. 5289; Gaz. vol. 174; p. 906.
Chute, Merchandise-. L. Goehr. No. 1,013,292; Jan. 2; Sp. p. 459; Gaz. vol. 174; p. 71.
Chute, Portable car-. C. J. Mominee. No. 1,021,741; Mar. 26; Sp. p. 5783; Gaz. vol. 176; p. 1038.
Chute, Portable car-unloading. J. W. Stagg. No. 1,028,831; June 4; Sp. p. 1636; Gaz. vol. 179; p. 255.
Chute retarding device. H. S. Gardner. No. 1,035,871; Aug. 20; Gaz. vol. 181; p. 565.
Cider-mill. R T Wilson. No. 1,022,286; Apr. 2; Sp. p. 1124; Gaz. vol. 177; p. 179.
Cider-mill. R. W. Brooks. No. 1,037,726; Sept. 3; Gaz. vol. 182; p. 184.
Cigar. H. Schwartz. No. 1,013,226; Jan. 2; Sp. p. 303; Gaz. vol. 174; p. 48.

Alphabetical list of inventions—Continued.

Cigar and cigarette holder. W. Archer. No. 1,024,052; Apr. 23; Sp. p. 4893; Gaz. vol. 177; p. 867.
Cigar and cigarette holder. J. V. Fernandez. No. 1,024,980; Apr. 30; Sp. p. 6952; Gaz. vol. 177; p. 1222.
Cigar and cigarette holders, Machine for making. G. Wirth. No. 1,029,164; June 11; Sp. p. 2376; Gaz. vol. 179; p. 405.
Cigar-band. A. A. Call and W. S. Smith. No. 1,017,282; Feb. 13; Sp. p. 2335; Gaz. vol. 175; p. 398.
Cigar-banding machine. F. O. Woodland. No. 1,018,091; Feb. 20; Sp. p. 4140; Gaz. vol. 175; p. 713.
Cigar-banding machine. F. E. Terrill and J. P. Dowd. No. 1,042,621; Oct. 29; Gaz. vol. 183; p. 1128.
Cigar-binder-cutting and bunch-maker's table. L. Rosenfeld, I. C. Rosenthal, and F. Fleischman. No. 1,032,506; July 16; Gaz. vol. 180; p. 656.
Cigar-box. J. J. Planco. No. 1,031,466; July 2; Gaz. vol. 180; p. 216.
Cigar-box. A. W. Fallon. No. 1,032,053; July 9; Gaz. vol. 180; p. 458.
Cigar-box. C. M. Concannon. No. 1,040,152; Oct. 1; Gaz. vol. 183; p. 162.
Cigar-box-lid holder. M. Rothschild. No. 1,028,607; June 4; Sp. p. 1178; Gaz. vol. 179; p. 180.
Cigar-bunching machine. N. Weiss. No. 1,038,041; Sept. 10; Gaz. vol. 182; p. 323.
Cigar-case. S. W. Gunn. No. 1,016,492; Feb. 6; Sp. p. 580; Gaz. vol. 175; p. 90.
Cigar-case. A. Schwieger. No. 1,021,849; Apr. 2; Sp. p. 209; Gaz. vol. 177; p. 35.
Cigar-case, Trick. F. L. Rouse. No. 1,023,276; Apr. 16; Sp. p. 3287; Gaz. vol. 177; p. 587.
Cigar cell or pocket. E. H. Ellis. No. 1,030,655; June 25; Sp. p. 5856; Gaz. vol. 179; p. 1001.
Cigar-container. W. D. Sharpe. No. 1,045,331; Nov. 26; Gaz. vol. 184; p. 884.
Cigar-cutter. D. S. Du Brul. No. 1,014,576; Jan. 9; Sp. p. 3239; Gaz. vol. 174; p. 539.
Cigar-cutter. A. Schwieger and B. Doctor. No. 1,025,542; May 7; Sp. p. 982; Gaz. vol. 178; p. 152.
Cigar-cutter. M. Meyerson. No. 1,043,338; Nov. 5; Gaz. vol. 184; p. 105.
Cigar-cutter. A. Schickerling. No. 1,043,363; Nov. 5; Gaz. vol. 184; p. 114.
Cigar-cutter. C. A. Blacknall. No. 1,045,503; Nov. 26; Gaz. vol. 184; p. 946.
Cigar-cutter and fastener for cigar-receptacles, Combined. A. Schwieger. No. 1,025,484; May 7; Sp. p. 840; Gaz. vol. 178; p. 131.
Cigar-holder. E. E. Taliaferro and E. J. Goldsworthy. No. 1,013,236; Jan. 2; Sp. p. 324; Gaz. vol. 174; p. 51.
Cigar-holder. J. L. Wolleson. No. 1,023,288; Apr. 16; Sp. p. 3306; Gaz. vol. 177; p. 591.
Cigar-holder and ash-receptacle. G. C. Lynch. No. 1,015,697; Jan. 23; Sp. p. 5757; Gaz. vol. 174; p. 981.
Cigar-holder, ash-receptacle, and match-safe, Combined. W. W., F. M., and J. S. Hilton. No. 1,018,492; Feb. 27; Sp. p. 5013; Gaz. vol. 175; p. 882.
Cigar holder, Lighted-. J. R. Barnes. No. 1,017,197; Feb. 13; Sp. p. 2153; Gaz. vol. 175; p. 368.
Cigar-lighter. A. R. Mann, Jr. No. 1,025,001; Apr. 30; Sp. p. 7003; Gaz. vol. 177; p. 1230.
Cigar-lighter. A. T. Hoevet. No. 1,027,205; May 21; Sp. p. 4707; Gaz. vol. 178; p. 790.
Cigar-lighter. J. L. Herzog. No. 1,034,617; Aug. 6; Gaz. vol. 181; p. 71.
Cigar-lighter. G. S. Eldred. No. 1,038,735; Sept. 17; Gaz. vol. 182; p. 596.
Cigar-lighter and advertising-machine, Combined. A. J. Kobler. No. 1,015,807; Jan. 30; Sp. p. 5976; Gaz. vol. 174; p. 1045.
Cigar-lighter, Automatic. G. W. Everett. No. 1,024,843; Apr. 30; Sp. p. 6685; Gaz. vol. 177; p. 1176.
Cigar-lighter, Electric. D. E. Shea. No. 1,029,723; June 18; Sp. p. 3601; Gaz. vol. 179; p. 635.
Cigar-lighter, Electric. J. Leveen and M. L. Ashbaugh. No. 1,039,553; Sept. 24; Gaz. vol. 182; p. 895.
Cigar-machine. R. H. Logan. No. 1,027,553; May 28; Sp. p. 5402; Gaz. vol. 178; p. 947.
Cigar-making machine. R. Schmitt. No. 1,025,885; May 7; Sp. p. 1740; Gaz. vol. 178; p. 268.
Cigar-making machine. F. J. Hagen. No. 1,044,516; Nov. 19; Gaz. vol. 184; p. 573.
Cigar-molding machine. W. E. Jenkins. No. 1,024,632; Apr. 30; Sp. p. 6256; Gaz. vol. 177; p. 1101.
Cigar or cigarette case. S. C. Hignett. No. 1,028,069; May 28; Sp. p. 6537; Gaz. vol. 178; p. 1117.
Cigar-package. M. Ulmer. No. 1,044,948; Nov. 19; Gaz. vol. 184; p. 723.
Cigar-pressing box. R. Woerner. No. 1,027,094; May 21; Sp. p. 4477; Gaz. vol. 178; p. 755.
Cigar-tip cutter. I. Newman. No. 1,013,889; Jan. 9; Sp. p. 1784; Gaz. vol. 174; p. 306.
Cigar-tip cutter. E. Brunhoff. No. 1,024,924; Apr. 30; Sp. p. 6853; Gaz. vol. 177; p. 1204.
Cigar tip-cutter and lighter, Combined. D. A. Thomas. No. 1,021,080; Mar. 26; Sp. p. 4394; Gaz. vol. 176; p. 815.
Cigar-wrapper. A. Schneider. No. 1,028,498; June 4; Sp. p. 961; Gaz. vol. 179; p. 144.
Cigars, Machine for forming covers for. E. N. Gilfillan. No. 1,039,046; Sept. 17; Gaz. vol. 182; p. 698.
Cigars, Spark-arrester for. J. E. Bassett. No. 1,014,436; Jan. 9; Sp. p. 2988; Gaz. vol. 174; p. 496.
Cigarette. B. H. Whitmore. No. 1,020,864; Mar. 19; Sp. p. 3969; Gaz. vol. 176; p. 691.
Cigarette and match box, Combined. W. L. Gleason. No. 1,037,237; Sept. 3; Gaz. vol. 182; p. 21.
Cigarette-box. B. Cohon. No. 1,028,438; June 4; Sp. p. 825; Gaz. vol. 179; p. 124.
Cigarette-box. J. R. W. Menger. No. 1,029,548; June 11; Sp. p. 3205; Gaz. vol. 179; p. 537.
Cigarette-box and match-holder, Combined. A. Q. Walsh. No. 1,023,054; Apr. 9; Sp. p. 2772; Gaz. vol. 177; p. 472.
Cigarette-box and match-holder, Combined. H. A. Griffin. No. 1,049,225; Dec. 31; Gaz. vol. 185; p. 1320.
Cigarette-case. A. Q. Walsh. No. 1,014,543; Jan. 9; Sp. p. 3173; Gaz. vol. 174; p. 529.
Cigarette-form retainer and holder. C. M. Callanan. No. 1,037,863; Sept. 10; Gaz. vol. 182; p. 262.
Cigarette-holder. A. S. MacLellan. No. 1,046,396; Dec. 3; Gaz. vol. 185; p. 209.
Cigarette-machine. W. S. Irey. No. 1,016,410; Feb. 6; Sp. p. 387; Gaz. vol. 175; p. 61.
Cigarette-machine. S. Palmowsky. No. 1,029,397; June 11; Sp. p. 2808; Gaz. vol. 179; p. 485.
Cigarette-machine, Continuous. N. Du Brul. No. 1,040,653; Oct. 8; Gaz. vol. 183; p. 367.
Cigarette-machine tipping attachment. V., J., and W. Ragona. No. 1,033,933; July 30; Gaz. vol. 180; p. 1202.
Cigarette-making machine. A. H. Sarkisian. No. 1,040,772; Oct. 8; Gaz. vol. 183; p. 405.
Cigarette-making machine. C. De Cazen. No. 1,042,652; Oct. 29; Gaz. vol. 183; p. 1138.
Cigarette-mouthpieces, Machine for making. W. Benjaminowitsch. No. 1,017,279; Feb. 13; Sp. p. 2332; Gaz. vol. 175; p. 397.
Cigarette-mouthpieces, Producing. L. H. Sondheim. No. 1,013,825; Jan. 2; Sp. p. 1603; Gaz. vol. 174; p. 255.
Cigarette-packer. M. Karger. No. 1,021,194; Mar. 26; Sp. p. 4645; Gaz. vol. 176; p. 851.
Cigarette, &c., paper cutting, folding, and collecting machine. J. Mayer-Verrie. No. 1,035,211; Aug. 13; Gaz. vol. 181; p. 301.
Cigarette-paper with mouthpiece materials. Device for providing. E. Quester. No. 1,046,643; Dec. 10; Gaz. vol. 185; p. 332.
Cigarettes and other articles, Machinery for packing. E. L. Bracy. No. 1,041,007; Oct. 15; Gaz. vol. 183; p. 516.
Cinch-ring. G. W. Parmeter. No. 1,035,725; Aug. 13; Gaz. vol. 181; p. 478.
Cinder-guard. H. S. Grimes. No. 1,024,327; Apr. 23; Sp. p. 5486; Gaz. vol. 177; p. 962.
Circuit-breaker. T. E. Barnum. No. 1,018,547; Feb. 27; Sp. p. 5184; Gaz. vol. 175; p. 902.
Circuit-breaker. A. D. T. Libby. No. 1,019,060; Mar. 5; Sp. p. 100; Gaz. vol. 176; p. 19.
Circuit-breaker. H. E. Howe. No. 1,021,604; Mar. 26; Sp. p. 5535; Gaz. vol. 176; p. 993.
Circuit-breaker. C. C. Badeau. No. 1,023,102; Apr. 9; Sp. p. 2865; Gaz. vol. 177; p. 488.
Circuit-breaker. H. W. Cheney. No. 1,030,568; June 25; Sp. p. 5550; Gaz. vol. 179; p. 968.
Circuit-breaker. C. Ambruster. No. 1,042,186; Oct. 22; Gaz. vol. 183; p. 949.
Circuit-breaker. H. L. Smith. No. 1,043,637; Nov. 5; Gaz. vol. 184; p. 210.
Circuit-breaker. W. F. Hanst. No. 1,045,141; Nov. 26; Gaz. vol. 184; p. 818.
Circuit-breaker. J. N. Mahoney. No. 1,045,866; Dec. 3; Gaz. vol. 185; p. 24.
Circuit breaker and distributer, Combined. C. A. Pfanstiehl. No. 1,036,700; Aug. 27; Gaz. vol. 181; p. 884.
Circuit-breaker, Automatic. E. C. Raney. No. 1,041,161; Oct. 15; Gaz. vol. 183; p. 569.
Circuit-breaker, Auxiliary carbon-contact. C. C. Badeau. No. 1,026,296; May 14; Sp. p. 2653; Gaz. vol. 178; p. 444.
Circuit-breaker, Expulsion-fuse. W. J. Lietzenmayer. No. 1,021,054; Mar. 26; Sp. p. 4353; Gaz. vol. 176; p. 808.
Circuit-breaker for electric ignition devices. A. R. Mosler. No. 1,042,814; Oct. 29; Gaz. vol. 183; p. 1194.
Circuit-breaker for magnetos and the like. R. H. Cunningham. No. 1,021,506; Mar. 26; Sp. p. 5339; Gaz. vol. 176; p. 962.
Circuit-breaker system. W. M. Scott. No. 1,031,205; July 2; Gaz. vol. 180; p. 126.
Circuit-breaker. Time-element. H. A. Steen. No. 1,030,030; June 18; Sp. p. 4271; Gaz. vol. 179; p. 740.
Circuit-breaker, Vapor-arc. C. A. Kraus. No. 1,046,086; Dec. 3; Gaz. vol. 185; p. 98.

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Circuit-breakers, Coupling for non-closable. K. Höhn. No. 1,040,541; Oct. 8; Gaz. vol. 183; p. 324.
Circuit-closer. V. Tardieu. No. 1,017,604; Feb. 13; Sp. p. 2997; Gaz. vol. 175; p. 506.
Circuit-closer. S. P. Watson. No. 1,023,183; Apr. 16; Sp. p. 3098; Gaz. vol. 177; p. 554.
Circuit-closer. G. H. Sloane. No. 1,032,030; July 9; Gaz. vol. 180; p. 450.
Circuit-closer. C. A. Castle. No. 1,040,883; Oct. 8; Gaz. vol. 183; p. 441.
Circuit-closer. H. P. Christianson. No. 1,043,755; Nov. 5; Gaz. vol. 184; p. 250.
Circuit-closer, Thermostatic. W. G. Asmus. No. 1,015,119; Jan. 16; Sp. p. 4501; Gaz. vol. 174; p. 758.
Circuit-closer, Time-controlled. H. P. Christianson. No. 1,037,130; Aug. 27; Gaz. vol. 181; p. 1027.
Circuit-closers, Actuating device for. G. D. Young. No. 1,043,655; Nov. 5; Gaz. vol. 184; p. 216.
Circuit-closing apparatus. H. W. Sheehy. No. 1,020,520; Mar. 19; Sp. p. 3202; Gaz. vol. 176; p. 574.
Circuit-closing apparatus, Coin-controlled. J. E. Lewis. No. 1,028,232; June 4; Sp. p. 377; Gaz. vol. 179; p. 53.
Circuit-closing device. A. D. Rizer. No. 1,034,510; Aug. 6; Gaz. vol. 181; p. 37.
Circuit-conductors, Connection device for. T. E. Murray. No. 1,028,259; June 4; Sp. p. 429; Gaz. vol. 179; p. 62.
Circuit-conductors, Connection device for. T. E. Murray. No. 1,036,508; Aug. 20; Gaz. vol. 181; p. 787.
Circuit-conductors, Junction-box for. T. E. Murray. No. 1,028,260; June 4; Sp. p. 432; Gaz. vol. 179; p. 62.
Circuit-controller. T. G. Stiles. No. 1,030,622; June 25; Sp. p. 5753; Gaz. vol. 179; p. 989.
Circuit-controller. W. H. Durfee. No. 1,034,000; July 30; Gaz. vol. 180; p. 1226.
Circuit-controller. D. L. Ordway and J. W. Brown. No. 1,046,846; Dec. 10; Gaz. vol. 185; p. 404.
Circuit-controller. S. P. Hull. No. 1,047,415; Dec. 17; Gaz. vol. 185; p. 631.
Circuit controller, Magneto-. E. S. Lincoln. No. 1,015,328; Jan. 23; Sp. p. 4952; Gaz. vol. 174; p. 855.
Circuit controller, Multiple-. C. K. Jones. No. 1,016,329; Feb. 6; Sp. p. 213; Gaz. vol. 175; p. 32.
Circuit-controlling apparatus. N. Wilkinson. No. 1,016,661; Feb. 6; Sp. p. 983; Gaz. vol. 175; p. 149.
Circuit-controlling apparatus. J. F. Kelly. No. 1,041,294; Oct. 15; Gaz. vol. 183; p. 615.
Circuit-controlling apparatus. R. P. Jackson. No. 1,043,014; Oct. 29; Gaz. vol. 183; p. 1262.
Circuit-controlling device. W. B. Hughes. No. 1,016,268; Feb. 6; Sp. p. 52; Gaz. vol. 175; p. 11.
Circuit-controlling device. F. Kästner. No. 1,028,360; June 4; Sp. p. 652; Gaz. vol. 179; p. 98.
Circuit-controlling key. H. E. Shreeve. No. 1,026,183; May 14; Sp. p. 2403; Gaz. vol. 178; p. 405.
Circuit-controlling mechanism. F. Bechoff. No. 1,037,580; Sept. 3; Gaz. vol. 182; p. 136.
Circuit-interrupter. C. J. Hixson. No. 1,015,442; Jan. 23; Sp. p. 5198; Gaz. vol. 174; p. 893.
Circuit-interrupter. F. W. Harris. No. 1,029,753; June 18; Sp. p. 3660; Gaz. vol. 179; p. 645.
Circuit-interrupter. F. W. Harris. No. 1,031,789; July 9; Gaz. vol. 180; p. 369.
Circuit-make-and-break device. A. A. Ziegler. No. 1,031,312; July 2; Gaz. vol. 180; p. 164.
Circuit-make-and-break device. A. E. Claudon. No. 1,041,594; Oct. 15; Gaz. vol. 183; p. 711.
Circuit making and breaking device. W. A. Stiles. No. 1,020,522; Mar. 19; Sp. p. 3210; Gaz. vol. 176; p. 575.
Circuit opening and closing switch for charging-circuits. A. J. Stecker. No. 1,026,003; May 14; Sp. p. 1992; Gaz. vol. 178; p. 343.
Circuits, Means for varying the period of oscillation of two oscillatory. R. H. Rendahl. No. 1,014,722; Jan. 16; Sp. p. 3634; Gaz. vol. 174; p. 622.
Circuits, Transformer cut-out for alternating-current. J. S. Peck. No. 1,036,696; Aug. 27; Gaz. vol. 181; p. 882.
Circular cutter. W. E. Peaden, Jr. No. 1,013,845; Jan. 2; Sp. p. 1659; Gaz. vol. 174; p. 263.
Circular kiln or oven. J. Lunt and J. W. Hartley. No. 1,028,043; May 28; Sp. p. 6484; Gaz. vol. 178; p. 1109.
Cistern. J. W. Gard. No. 1,039,924; Oct. 1; Gaz. vol. 183; p. 84.
Cistern-cleaner, Vacuum. H. Stucker. No. 1,039,209; Sept. 24; Gaz. vol. 182; p. 773.
Cistern-guard. C. W. Johnson. No. 1,021,410; Mar. 26; Sp. p. 5132; Gaz. vol. 176; p. 928.
Cistern or catch-basin cleaner. J. H. Wiest. No. 1,021,960; Apr. 2; Sp. p. 449; Gaz. vol. 177; p. 72.
Cistern, Sanitary. J. A. Leighton. No. 1,022,371; Apr. 2; Sp. p. 1287; Gaz. vol. 177; p. 208.
Clam-digger. W. D. Collier. No. 1,019,601; Mar. 5; Sp. p. 1328; Gaz. vol. 176; p. 200.
Clam-opener. E. D. Tiffany. No. 1,041,198; Oct. 15; Gaz. vol. 183; p. 581.
Clamp: *See* Adjustable clamp; Bedclothes-clamp; Belt-clamp; Board-clamp; Bracket-clamp; Brick-clamp; Bridge-clamp; Burial-case clamp; Cabinet-clamp; Cable-clamp; Car-wheel clamp; Clothes-wringer clamp; Collar-clamp; Concrete-form clamp; Dental cervical-margin clamp; Door-clamp; Drill, &c., clamp; Eyeglass-clamp; Fence-clamp; Fence-stretching clamp; Flask-clamp; Furniture-clamp; Ground-clamp; Handle-clamp; Heel-clamp; Horse-nose clamp; Horseshoe-calk clamp; Hose-clamp; Implement-clamp; Insulation-clamp; Insulator-clamp; Lasting-plate clamp; Locking-clamp; Meat-clamp; Miter-clamp; Pipe-clamp; Piston-ring clamp; Rail-clamp; Rail-bonding clamp; Railway-clamp; Railway-rail clamp; Rod-clamp; Rope-clamp; Roving-clamp; Safety-clamp; Saw-clamp; Sawyer's clamp; Screw-clamp; Sewing-clamp; Side-board and wagon-body clamp; Sign or card clamp; Spoke-clamp Spring-clamp; Stitching-clamp; Target-clamp; Tool-clamp; Trolley-line clamp; Truck-handle clamp; Tube-clamp; Vehicle-top bow-clamp; Wind-shield clamp; Wire-clamp; Wire-rope clamp; Wire-stretcher clamp; Woodworking-clamp; Work-clamp.
Clamp. F. W. Weston. No. 1,014,352; Jan. 9; Sp. p. 2821; Gaz. vol. 174; p. 467.
Clamp. E. Goble. No. 1,015;171; Jan. 16; Sp. p. 4588; Gaz. vol. 174; p. 774.
Clamp. D. B. Swickard. No. 1,017,821; Feb. 20; Sp. p. 3513; Gaz. vol. 175; p. 617.
Clamp. C. D. Crandal. No. 1,020,129; Mar. 12; Sp. p. 2396; Gaz. vol. 176; p. 409.
Clamp. E. F. Cords. No. 1,021,352; Mar. 26; Sp. p. 4974; Gaz. vol. 176; p. 907.
Clamp. W. Tarbuck. No. 1,026,475; May 14; Sp. p. 3064; Gaz. vol. 178; p. 504.
Clamp. G. M. Wright. No. 1,028,651; June 4; Sp. p. 1268; Gaz. vol. 179; p. 195.
Clamp. J. P. Williams. No. 1,031,306; July 2; Gaz. vol. 180; p. 162.
Clamp. H. W. Heidbrink and H. H. Liesemeyer. No. 1,031,928; July 9; Gaz. vol. 180; p. 417.
Clamp. T. A. Maxwell. No. 1,035,800; Aug. 13; Gaz. vol. 181; p. 502.
Clamp. U. S. G. Gatten and E. L. Glenn. No. 1,036,093; Aug. 20; Gaz. vol. 181; p. 641.
Clamp. J. Van Denburg. No. 1,036,386; Aug. 20; Gaz. vol. 181; p. 745.
Clamp. J. L. Hite. No. 1,042,224; Oct. 22; Gaz. vol. 183; p. 962.
Clamp. F. A. Schulz. No. 1,042,610; Oct. 29; Gaz. vol. 183; p. 1123.
Clamp. P. Zawadzki. No. 1,044,620; Nov. 19; Gaz. vol. 184; p. 610.
Clamp. H. A. Haskell. No. 1,047,519; Dec. 17; Gaz. vol. 185; p. 670.
Clamp and gage. J. J. Woodman. No. 1,016,594; Feb. 6; Sp. p. 831; Gaz. vol. 175; p. 124.
Clamp and tube-compressor, Combined. R. L. Smith. No. 1,033,959; July 30; Gaz. vol. 180; p. 1211.
Clamp-hook. E. Fournier. No. 1,024,002; Apr. 23; Sp. p. 4784; Gaz. vol. 177; p. 849.
Clamps, Self-adjusting clamp-bar for door and furniture. F. Welker. No. 1,028,923; June 11; Sp. p. 1867; Gaz. vol. 179; p. 323.
Clamping and squaring machine. W. F. Ohlran and G. K. Neher. No. 1,044,078; Nov. 12; Gaz. vol. 184; p. 393.
Clamping device. C. Gibson. No. 1,013,763; Jan. 2; Sp. p. 1489; Gaz. vol. 174; p. 235.
Clamping device. J. A. Johnson. No. 1,021,986; Apr. 2; Sp. p. 502; Gaz. vol. 177; p. 80.
Clamping device. W. J. Bayrer. No. 1,035,143; Aug. 13; Gaz. vol. 181; p. 276.
Clamping device. R. H. Sharon. No. 1,049,277; Dec. 31; Gaz. vol. 185; p. 1337.
Clamping-jack. W. L. Grant. No. 1,032,893; July 16; Gaz. vol. 180; p. 788.
Clarification system. C. Rumpf. No. 1,037,798; Sept. 3; Gaz. vol. 182; p. 207.
Clarifier and filter, Centrifugal. B. R. Wright. No. 1,032,641; July 16; Gaz. vol. 180; p. 703.
Clasp: *See* Bag-clasp; Corset-front clasp; Garment-clasp; Hose-supporting clasp; Jewelry safety-clasp; Package-clasp; Pen-clasp; Tie-clasp.
Clasp. W. S. Barker. No. 1,019,016; Mar. 5; Sp. p. 8; Gaz. vol. 176; p. 4.
Clasp. J. Ehmann. No. 1,022,663; Apr. 9; Sp. p. 1925; Gaz. vol. 177; p. 336.
Clasp. C. P. Evans. No. 1,023,559; Apr. 16; Sp. p. 3840; Gaz. vol. 177; p. 676.
Clasp. L. A. Wilkinson. No. 1,029,654; June 18; Sp. p. 3429; Gaz. vol. 179; p. 610.
Clasp. F. Slover. No. 1,043,635; Nov. 5; Gaz. vol. 184; p. 209.
Clasp. F. C. Osmers. No. 1,044,686; Nov. 19; Gaz. vol. 184; p. 633.
Clasp. W. D. Eastburn. No. 1,047,770; Dec. 17; Gaz. vol. 185; p. 758.
Clasping and lifting device. A. F. Curtis. No. 1,047,505; Dec. 17; Gaz. vol. 185; p. 664.
Classifier. L. C. Trent. No. 1,041,909; Oct. 22; Gaz vol. 183; p. 858.

Classifier. P. Argall. No. 1,044,844; Nov. 19; Gaz. vol. 184; p. 688.
Classifier. P. Argall. No. 1,044,845; Nov. 19; Gaz. vol. 184; p. 688.
Classifier. H. L. Neall. No. 1,046,106; Dec. 10; Gaz vol. 185; p. 490.
Classifier, Hydraulic. L. L. Beeken. No. 1,035,145; Aug. 13; Gaz. vol. 181; p. 277.
Classifying or grading apparatus. G. H. Stanley. No. 1,039,206; Sept. 24; Gaz. vol. 182; p. 772.
Clavier, Practice-. A. C. Bergman. No. 1,040,852; Oct. 8; Gaz. vol. 183; p. 430.
Clay, &c., Apparatus for separating granular admixtures from. M. Bohn. No. 1,033,377; July 23; Gaz. vol. 180; p. 990.
Clay, chalk, or the like, applicable also to the working of mines or making of railway-cuttings, Method of getting. R. B. Lucas. No. 1,043,784; Nov. 5; Gaz. vol. 184; p. 258.
Clay-cleaning machine. B. Jacquart and J. V. V. Booraem. No. 1,024,262; Apr. 23; Sp. p. 5378; Gaz. vol. 177; p. 942.
Clay, kaolin, and ceramic masses, Treating. G. Keppeler and A. Spangenberg. No. 1,013,603; Jan. 2; Sp. p. 1107; Gaz. vol. 174; p. 178.
Clay or the like, Machine for cleaning and sorting. M. Bohn. No. 1,031,832; July 9; Gaz. vol. 180; p. 384.
Clay-pot-making machine. J. Schubert. No. 1,032,028; July 9; Gaz. vol. 180; p. 449.
Clay preparation, China-. A. G. Salamon. No. 1,032,862; July 16; Gaz. vol. 180; p. 778.
Clay, &c., Purifying. H. Gruber. No. 1,036,831; Aug. 27; Gaz. vol. 181; p. 927.
Clay-sieving machine. A. H. Cowles. No. 1,040,639; Oct. 8; Gaz. vol. 183; p. 362.
Clay-treating apparatus. J. L. Musser. No. 1,029,708; June 18; Sp. p. 3573; Gaz. vol. 179; p. 630.
Clayware-drier. H. Heuss. No. 1,022,082; Apr. 2; Sp. p. 696; Gaz. vol. 177; p. 111.
Cleaner: *See* Abrading-roll cleaner; Automobile glass-screen cleaner; Bag-cleaner; Bean-cleaner; Beer-pipe cleaner; Beeswax-cleaner; Belt-cleaner; Blower-cleaner; Boiler-cleaner; Boiler-flue cleaner; Boiler-tube cleaner; Bolting-cloth cleaner; Boot-cleaner; Boot and shoe cleaner; Bottle-cleaner; Car-window cleaner; Carpet-cleaner; Chimney-cleaner; Cistern-cleaner; Cistern or catch-basin cleaner; Comb-cleaner; Cotton-cleaner; Cotton-gin cleaner; Cotton-gin saw-cleaner; Cuspidor-cleaner; Dish-cleaner; Elevator-cleaner; Eraser-cleaner; Excavator-bucket cleaner; Eyeglass-cleaner; Finger-nail cleaner; Flue-cleaner; Gas-cleaner; Gas dry cleaner; Gin-saw cleaner; Grain-cleaner; Grate-cleaner; Gun-cleaner; Gun-barrel cleaner; Kiln-cleaner; Knife-cleaner; Pipe-cleaner; Pneumatic cleaner; Railway-track cleaner; Reservoir and channel cleaner; Rifle-bore cleaner; Seed-cleaner; Seed-cotton cleaner; Seed-wheat cleaner; Ship-cleaner; Shoe-cleaner; Slate-cleaner; Smoking-pipe cleaner; Street-cleaner; Suction-cleaner; Track-cleaner; Tube-cleaner; Vacuum-cleaner; Wall-cleaner; Well-cleaner; Window-cleaner.
Cleaner. W. T. Shaffer. No. 1,040,038; Oct. 1; Gaz. vol. 183; p. 123.
Cleaner device. S. Selwa. No. 1,042,828; Oct. 29; Gaz. vol. 183; p. 1199.
Cleaner duster, Vacuum-. C. L. Eichele. No. 1,040,176; Oct. 1; Gaz. vol. 183; p. 169.
Cleaner nozzle, Vacuum-. W. Behm. No. 1,013,364; Jan. 2; Sp. p. 605; Gaz. vol. 174; p. 96.
Cleaning and sterilizing machine. L. Weiscopf. No. 1,040,477; Oct. 8; Gaz. vol. 183; p. 300.
Cleaning apparatus. I. H. Spencer. No. 1,022,114; Apr. 2; Sp. p. 766; Gaz. vol. 177; p. 122.
Cleaning apparatus. E. C. Stafford. No. 1,036,365; Aug. 20; Gaz. vol. 181; p. 738.
Cleaning apparatus, Dry-. E. Y. White. No. 1,038,468; Sept. 10; Gaz. vol. 182; p. 470.
Cleaning compound. C. A. Nowak. No. 1,038,783; Sept. 17; Gaz. vol. 182; p. 613.
Cleaning device. C. H. Foster. No. 1,017,661; Feb. 20; Sp. p. 3117; Gaz. vol. 175; p. 563.
Cleaning device. I. H. Spencer. No. 1,034,040; July 30; Gaz. vol. 180; p. 1241.
Cleaning device, Clothes-. K. Mayer. No. 1,044,216; Nov. 12; Gaz. vol. 184; p. 440.
Cleaning device, Dry-. K. Rostel. No. 1,043,730; Nov. 5; Gaz. vol. 184; p. 241.
Cleaning device, Suction. H. Koch. No. 1,016,921; Feb. 6; Sp. p. 1519; Gaz. vol. 175; p. 235.
Cleaning-machine. U. S. Armstrong. No. 1,020,789; Mar. 19; Sp. p. 3799; Gaz. vol. 176; p. 665.
Cleaning-machine. C. B. Howe. No. 1,045,554; Nov. 26; Gaz. vol. 184; p. 966.
Cleaning-stand. I. L. Reeves. No. 1,033,194; July 23; Gaz. vol. 180; p. 928.
Cleaning system. A. E. Nickerson. No. 1,038,185; Sept. 10; Gaz. vol. 182; p. 370.
Cleaning system, Vacuum. J. R. Pettiford. No. 1,025,994; May 14; Sp. p. 1973; Gaz. vol. 178; p. 340.
Cleaning-tool. I. H. Spencer. No. 1,016,649; Feb. 6; Sp. p. 956; Gaz. vol. 175; p. 144.
Cleaning-tool. I. H. Spencer. No. 1,021,010; Mar. 26; Sp. p. 4261; Gaz. vol. 176; p. 791.
Cleaning-tool, Suction. C. E. Harker. No. 1,041,466; Oct. 15; Gaz. vol. 183; p. 671.
Cleaning-tool, Vacuum. J. T. Hope. No. 1,033,016; July 16; Gaz. vol. 180; p. 828.
Cleaning various materials, Apparatus for. A. Henning. No. 1,035,876; Aug. 20; Gaz. vol. 181; p. 567.
Cleansing and wiping device. C. E. Taylor and A. C. Wolfe. No. 1,038,231; Sept. 10; Gaz. vol. 182; p. 385.
Clearer-stick, Collapsible. F. H. McDevitt. No. 1,036,671; Aug. 27; Gaz. vol. 181; p. 875.
Cleat. F. R. Dych. No. 1,034,222; July 30; Gaz. vol. 180; p. 1303.
Cleat, Antislip-. G. L. Pierce. No. 1,038,645; Sept. 17; Gaz. vol. 182; p. 564.
Cleat or lag for conveyer-chains. J. H. Miner. No. 1,048,848; Dec. 31; Gaz. vol. 185; p. 1191.
Clevis. E. J. Sweeney. No. 1,016,183; Jan. 30; Sp. p. 6756; Gaz. vol. 174; p. 1175.
Clevis. O. M. Bye. No. 1,022,300; Apr. 2; Sp. p. 1143; Gaz. vol. 177; p. 183.
Clevis. G. P. Browning. No. 1,037,589; Sept. 3; Gaz. vol. 182; p. 139.
Clevis. M. A. Nelson. (Reissue.) No. 13,470; Oct. 1; Gaz. vol. 183; p. 200.
Clevis. S. T. Hobbs. No. 1,040,326; Oct. 8; Gaz. vol. 183; p. 250.
Clevis and clip, Combined. A. M. Havens. No. 1,022,941; Apr. 9; Sp. p. 2554; Gaz. vol. 177; p. 433.
Clevis, Buggy-evener. O. A. and J. B. Fladby. No. 1,016,134; Jan. 30; Sp. p. 6676; Gaz. vol. 174; p. 1160.
Clevis, Coupling-. E. P. Kinne. No. 1,037,926; Sept. 10; Gaz. vol. 182; p. 285.
Clevis-lock. M. A. Nelson. No. 1,030,527; June 25; Sp. p. 5431; Gaz. vol. 179; p. 954.
Clevis, Safety-. J. Miron. No. 1,022,041; Apr. 2; Sp. p. 618; Gaz. vol. 177; p. 97.
Clincher-ring, Quickly-detachable hinged. W. W. Ward. No. 1,025,345; May 7; Sp. p. 528; Gaz. vol. 178; p. 83.
Cling-knife. G. W. Allen. No. 1,028,175; June 4; Sp. p. 269; Gaz. vol. 179; p. 33.
Clinker-bar and fire-rake, Combination. A. W. Woodley. No. 1,036,401; Aug. 20; Gaz. vol. 181; p. 750.
Clinker-cooler. R. R. Bear. No. 1,034,861; Aug. 6; Gaz. vol. 181; p. 156.
Clinker-shovel, Adjustable. W. W. Church. No. 1,046,974; Dec. 10; Gaz. vol. 185; p. 447.
Clip: *See* Bill-clip; Binding-clip; Buckle ribbon-clip; Cable-clip; Concrete-construction clip; Corner-bead clip; Eyeglass nose-clip; Fireproof-construction clip; Fuse-block clip; Guard-finger clip; Lamp-clip; Loose-leaf clip; Marking-clip; Measuring-appliance clip; Music-clip; Paper-clip; Pocket-clip; Rope-clip; Sash-clip; Sash-glazing clip; Soffit-clip; Spring-clip; Sprocket-wheel clip; Supporting-clip; Terminal clip.
Clip. H. W. Stamps. No. 1,029,829; June 18; Sp. p. 3832; Gaz. vol. 179; p. 672.
Clip for connecting rafters, purlins, and sash-bars of greenhouses. R. C. King. No. 1,048,704; Dec. 31; Gaz. vol. 185; p. 1142.
Clipper: *See* Vine-clipper.
Clipper. C. H. Redman. No. 1,015,399; Jan. 23; Sp. p. 5098; Gaz. vol. 174; p. 879.
Clipper. W. H. Nicholls. No. 1,021,999; Apr. 2; Sp. p. 530; Gaz. vol. 177; p. 83.
Clipper. O. Karcher. (Reissue.) No. 13,463; Aug. 27; Gaz. vol. 181; p. 1047.
Clock. H. J. Treganza. No. 1,022,213; Apr. 2; Sp. p. 977; Gaz. vol. 177; p. 157.
Clock. S. B. Bricker. No. 1,028,427; June 4; Sp. p. 800; Gaz. vol. 179; p. 121.
Clock. I. Greenwald. No. 1,036,485; Aug. 20; Gaz. vol. 181; p. 778.
Clock. W. E. Porter. No. 1,037,527; Sept. 3; Gaz. vol. 182; p. 119.
Clock. A. M. Yeakel. No. 1,037,705; Sept. 3; Gaz. vol. 182; p. 178.
Clock. A. McGugan and H. Spragg. No. 1,039,165; Sept. 24; Gaz. vol. 182; p. 756.
Clock. J. S. Kennedy. No. 1,044,534; Nov. 19; Gaz. vol. 184; p. 579.
Clock. M. D. Albrecht. No. 1,046,246; Dec. 3; Gaz. vol. 185; p. 156.
Clock, Alarm-. P. Lux. No. 1,029,305; June 11; Sp. p. 2672; Gaz. vol. 179; p. 453.
Clock, Alarm-. W. E. Porter. No. 1,034,141; July 30; Gaz. vol. 180; p. 1274.
Clock, Alarm-. J. Kruse. No. 1,041,307; Oct. 15; Gaz. vol. 183; p. 619.
Clock, Alarm-. E. E. Stockton. No. 1,046,036; Dec. 3; Gaz. vol. 185; p. 81.
Clock, Alarm-. C. B. Simmons. No. 1,046,879; Dec. 10; Gaz. vol. 185; p. 415.
Clock, Alarm-. W. Bryce. No. 1,048,805; Dec. 31; Gaz. vol. 185; p. 1177.
Clock and indicating device, Combined. J. W. Jones. No. 1,040,344; Oct. 8; Gaz. vol. 183; p. 256.
Clock and talking-machine, Combined. F. Seelau. No. 1,030,926; July 2; Gaz. vol. 180; p. 25.

Alphabetical list of inventions—Continued.

Clocks and the like, Balance for. W. P. Hinkelman. No. 1,048,072; Dec. 24; Gaz. vol. 185; p. 886.
Clock-assembling machine. W. H. Gill. No. 1,048,821; Dec. 31; Gaz. vol. 185; p. 1183.
Clock-bank. C. H. Kelsea. No. 1,028,222; June 4; Sp. p. 362; Gaz. vol. 179; p. 50.
Clock-case. C. B. Simmons. No. 1,042,159; Oct. 22; Gaz. vol. 183; p. 940.
Clock case, Marine-. W. E. Porter. No. 1,039,439; Sept. 24; Gaz. vol. 182; p. 853.
Clock compensating pendulum. C. Lazzaro. No. 1,017,678; Feb. 20; Sp. p. 3150; Gaz. vol. 175; p. 568.
Clock-controlled switch. T. A. Zimmerman. No. 1,037,710; Sept. 3; Gaz. vol. 182; p. 180.
Clock, Cuckoo-. J. Schmidt. No. 1,041,177; Oct. 15; Gaz. vol. 183; p. 575.
Clock driving mechanism. J. Kuhn. No. 1,037,643; Sept. 3; Gaz. vol. 182; p. 157.
Clock, Electric. A. Tuerk. No. 1,015,748; Jan. 23; Sp. p. 5854; Gaz. vol. 174; p. 998.
Clock, Electric. S. C. Vincent. No. 1,022,987; Apr. 9; Sp. p. 2632; Gaz. vol. 177; p. 449.
Clock, Electric. J. W. Swain and H. M. Smith. No. 1,037,079; Aug. 27; Gaz. vol. 181; p. 1010.
Clock, Electric. H. T. Gay. No. 1,041,771; Oct. 22; Gaz. vol. 183; p. 809.
Clock, Electric. C. Féry. No. 1,043,917; Nov. 12; Gaz. vol. 184; p. 337.
Clock, Electric automobile-. W. H. Thompson. No. 1,024,709; Apr. 30; Sp. p. 6401; Gaz. vol. 177; p. 1128.
Clock, Electric program-. A. L. Ronell. No. 1,016,852; Feb. 6; Sp. p. 1366; Gaz. vol. 175; p. 211.
Clock, Electrically-driven. P. A. Bentley. No. 1,043,663; Nov. 5; Gaz. vol. 184; p. 218.
Clock, Electrically-operated alarm-. R. Mauthe. No. 1,048,987; Dec. 31; Gaz. vol. 185; p. 1239.
Clock for automobiles and the like. H. W. Matalene. No. 1,023,383; Apr. 16; Sp. p. 3482; Gaz. vol. 177; p. 621.
Clock for roving or spinning machinery or the like. A. Rankeillor. No. 1,029,400; June 11; Sp. p. 2913; Gaz. vol. 179; p. 486.
Clock-frame. S. Scheer. No. 1,040,023; Oct. 1; Gaz. vol. 183; p. 117.
Clock, Geographical. G. Kretzschmar. No. 1,015,195; Jan. 16; Sp. p. 4638; Gaz. vol. 174; p. 782.
Clock geographical index. J. B. Olinger. No. 1,034,496; Aug. 6; Gaz. vol. 181; p 32.
Clock, Keyless. W. E. E. Milz. No. 1,031,804; July 9; Gaz. vol. 180; p. 374.
Clock, Keyless. W. E. E. Milz. No. 1,031,805; July 9; Gaz. vol. 180; p. 374.
Clock, Keyless automobile-. J. R. Putnam. No. 1,034,733; Aug. 6; Gaz. vol. 181; p. 111.
Clock mechanism, Signal. F. O. Warner. No. 1,026,008; May 14; Sp. p. 2000; Gaz. vol. 178; p. 345.
Clock-movements, Lock-work for. C. B. Simmons. No. 1,037,555; Sept. 3; Gaz. vol. 182; p. 128.
Clock, Program-. C. B. Hale. No. 1,027,202; May 21; Sp. p. 4696; Gaz. vol. 178; p. 789.
Clock, Secondary. A. L. Sohm. No. 1,049,004; Dec. 31; Gaz. vol. 185; p. 1245.
Clock, Secondary electric. E. A. Hummel. No. 1,021,045; Mar. 26; Sp. p. 4336; Gaz. vol. 176; p. 804.
Clock, Secondary electric. T. H. Wurmb and R. Baumann. No. 1,030,368; June 25; Sp. p. 5034; Gaz. vol. 179; p. 898.
Clock, Self-winding. S. S. Besore. No. 1,032,108; July 9; Gaz. vol. 180; p. 476.
Clock-spring barrel. G. Kern. No. 1,033,020; July 16; Gaz. vol. 180; p. 829.
Clock stem winding and setting mechanism. C. H. Bell. No. 1,036,954; Aug. 27; Gaz. vol. 181; p. 967.
Clock system, Electric-. R. D. Hickok. No. 1,016,499; Feb. 6; Sp. p. 601; Gaz. vol. 175; p. 93.
Clock, Tellurian. W. H. Hall. No. 1,040,310; Oct. 8; Gaz. vol. 183; p. 245.
Clock, Time-. W. J. Banish and J. C. Swarthout. No. 1,042,867; Oct. 29; Gaz. vol. 183; p. 1213.
Clock, Universal. M. Luporini. No. 1,045,304; Nov. 26; Gaz. vol. 184; p. 875.
Clock, Watchman's. F. Hardinge. No. 1,016,688; Feb. 6; Sp. p. 1034; Gaz. vol. 175; p. 158.
Clock, Watchman's. G. F. Baldry. No. 1,045,497; Nov. 26; Gaz. vol. 184; p. 944.
Clock winding apparatus, Keyless. F. R. Alford. No. 1,049,285; Dec. 31; Gaz. vol. 185; p. 1340.
Clock winding mechanism. E. L. Swain. No. 1,017,187; Feb. 13; Sp. p. 2131; Gaz. vol. 175; p. 365.
Clock winding mechanism, Electric. G. H. Rupley. No. 1,023,684; Apr. 16; Sp. p. 4072; Gaz. vol. 177; p. 715.
Clocks, Alarm-resetting means for. W. A. Armour. No. 1,040,111; Oct. 1; Gaz. vol. 183; p. 147.
Clocks, Date-indicator for. S. Baumgartner-Hartmann. No. 1,027,518; May 28; Sp. p. 5337; Gaz. vol. 178; p. 934.
Clocks, Device for improving the tone of cathedral-gongs for. W. E. McGraw. No. 1,025,821; May 7; Sp. p. 1561; Gaz. vol. 178; p. 247.
Clod-crusher and land-smoother. W. G. Hunter. No. 1,047,061; Dec. 10; Gaz. vol. 185; p. 475.
Clod crusher and pulverizer, Combined. W. F. Cole. No. 1,044,860; Nov. 19; Gaz. vol. 184; p. 692.
Clod-fender, Revolving. H. H. Munson. No. 1,025,420; May 7; Sp. p. 687; Gaz. vol. 178; p. 108.
Closet: *See* Bread-proving closet; Dry closet; Sanitary closet; Water-closet.
Closet. W. Eichelkraut. No. 1,016,001; Jan. 30; Sp. p. 6396; Gaz. vol. 174; p. 1113.
Closet. L. H. Crow. No. 1,021,763; Apr. 2; Sp. p. 17; Gaz. vol. 177; p. 5.
Closet and seat. J. W. Sharp, Jr. No. 1,041,181; Oct. 15; Gaz. vol. 183; p. 576.
Closet attachment. H. R. Kiessig. No. 1,038,388; Sept. 10; Gaz. vol. 182; p. 439.
Closet attachment, Dry and water. W. B. Webb. No. 1,042,061; Oct. 22; Gaz. vol. 183; p. 908.
Closet bend or connection. F. W. Carlson. (Reissue.) No. 13,485; Nov. 5; Gaz. vol. 184; p. 261.
Closet-bowl. C. W. Beswick. No. 1,037,110; Aug. 27; Gaz. vol. 181; p. 1021.
Closet-cistern-supply valve. A. J. Ashford. No. 1,013,720; Jan. 2; Sp. p. 1390; Gaz. vol. 174; p. 218.
Closet connection. F. W. Carlson. No. 1,044,347; Nov. 12; Gaz. vol. 184; p. 485.
Closet-seat. W. E. Ross and L. C. Jensen. No. 1,015,512; Jan. 23; Sp. p. 5344; Gaz. vol. 174; p. 917.
Closet-seat. R. McCord. No. 1,018,721; Feb. 27; Sp. p. 5539; Gaz. vol. 175; p. 959.
Closet-seat. W. S. Hamm and T. A. Lagge. No. 1,024,568; Apr. 30; Sp. p. 6100; Gaz. vol. 177; p. 1079.
Closing-disk. W. L. Wright. No. 1,036,769; Aug. 27; Gaz. vol. 181; p. 906.
Closing mechanism and the like. W. V. Gilbert. No. 1,024,987; Apr. 30; Sp. p. 6973; Gaz. vol. 177; p. 1225.
Closure and faucet, Combined. R. Head. No. 1,017,756; Feb. 20; Sp. p. 3323; Gaz. vol. 175; p. 595.
Closure for containers. W. E. Danat. No. 1,016,739; Feb. 6; Sp. p. 1137; Gaz. vol. 175; p. 175.
Closure for jars, &c. S. C. Carr. No. 1,033,382; July 23; Gaz. vol. 180; p. 992.
Closure-making machine. C. F. Jenkins. No. 1,017,549; Feb. 13; Sp. p. 2896; Gaz. vol. 175; p. 489.
Closure-retaining device. C. Calver. No. 1,029,047; June 11; Sp. p. 2129; Gaz. vol. 179; p. 366.
Closure, Vessel-. J. C. Eichhorn. No. 1,042,209; Oct. 22; Gaz. vol. 183; p. 957.
Cloth-board for winding fabrics thereon. J. H. Ackroyd. No. 1,038,061; Sept. 10; Gaz. vol. 182; p. 330.
Cloth-board holder. G. W. Dinsmoor. No. 1,045,530; Nov. 26; Gaz. vol. 184; p. 958.
Cloth-cutter. H. A. Meyer. No. 1,047,429; Dec. 17; Gaz. vol. 185; p. 636.
Cloth-cutting device. S. Hardy. No. 1,046,783; Dec. 10; Gaz. vol. 185; p. 384.
Cloth-cutting machine. A. Merhige and C. F. Cookson. No. 1,024,271; Apr. 23; Sp. p. 5397; Gaz. vol. 177; p. 945.
Cloth-cutting machine. E. H. Peterson. No. 1,041,341; Oct. 15; Gaz. vol. 183; p. 630.
Cloth-finishing machine. J. B. Dunn. No. 1,019,615; Mar. 5; Sp. p. 1349; Gaz. vol. 176; p. 205.
Cloth-finishing machine. E. H. Marble. No. 1,049,248; Dec. 31; Gaz. vol. 185; p. 1328.
Cloth-folding machines, Taking-in device for. J. Köhlen. No. 1,046,393; Dec. 3; Gaz. vol. 185; p. 208.
Cloth laying and piling apparatus. C. C. Schneider. No. 1,036,011; Aug. 20; Gaz. vol. 181; p. 610.
Cloth-laying machine. A. H. Van Devander and J. E. Moore. No. 1,030,145; June 18; Sp. p. 4510; Gaz. vol. 179; p. 779.
Cloth, Mending. A. Zeinzinger. No. 1,018,541; Feb. 27; Sp. p. 5168; Gaz. vol. 175; p. 899.
Cloth-package. A. T. Dorsey. No. 1,031,252; July 2; Gaz. vol. 180; p. 143.
Cloth-piling apparatus. J. Z. Pollard and G. J. Lederer. No. 1,021,002; Mar. 26; Sp. p. 4246; Gaz. vol. 176; p. 788.
Cloth-pressing machine. H. K. Kouyoumjian. No. 1,024,483; Apr. 23; Sp. p. 5834; Gaz. vol. 177; p. 1014.
Cloth, Raising the nap of. J. A. Jamieson. No. 1,017,151; Feb. 13; Sp. p. 2056; Gaz. vol. 175; p. 353.
Cloth-roll grip. W. S. Magee. No. 1,024,089; Apr. 23; Sp. p. 4974; Gaz. vol. 177; p. 879.
Cloth-slitting machine. B. T. Steber. No. 1,025,931; May 7; Sp. p. 1833; Gaz. vol. 178; p. 283.
Cloth-steaming machine. H. Moritz. No. 1,047,683; Dec. 17; Gaz. vol. 185; p. 728.
Cloth stretching and finishing machine. J. J. Westbrook. No. 1,046,519; Dec. 10; Gaz. vol. 185; p. 290.
Cloth-stretching machine. M. P. Hayward. No. 1,039,281; Sept. 24; Gaz. vol. 182; p. 800.
Cloth strips, Machine for folding, ironing, and spooling. A. L. Adams. No. 1,029,962; June 18; Sp. p. 4139; Gaz. vol. 179; p. 717.
Clothes-boiler. F. A. Spears. No. 1,019,198; Mar. 5; Sp. p. 427; Gaz. vol. 176; p. 67.
Clothes-cleaning machine. A. L. Nevels. No. 1,048,573; Dec. 31; Gaz. vol. 185; p. 1095.
Clothes-drainer. P. and J. Friederick. No. 1,044,768; Nov. 19; Gaz. vol. 184; p. 662.

Alphabetical list of inventions—Continued.

Clothes-drier. S. E. Jenkins. No. 1,015,959; Jan. 30; Sp. p. 6304; Gaz. vol. 174; p. 1097.
Clothes-drier. F. Dunham. No. 1,018,037; Feb. 20; Sp. p. 4008; Gaz. vol. 175; p. 694.
Clothes-drier. L. A. McGeary. No. 1,021,694; Mar. 26; Sp. p. 5680; Gaz. vol. 176; p. 1022.
Clothes-drier. E. T. Ferry. No. 1,021,976; Apr. 2; Sp. p. 486; Gaz. vol. 177; p. 77.
Clothes-drier. H. Herstein. No. 1,029,995; June 18; Sp. p. 4195; Gaz. vol. 179; p. 727.
Clothes-drier. P. D. Riordan. No. 1,035,640; Aug. 13; Gaz. vol. 181; p. 450.
Clothes-drier. W. P. Tarrant. No. 1,045,455; Nov. 26; Gaz. vol. 184; p. 929.
Clothes-drier attachment for boilers. P. Walther. No. 1,045,481; Nov. 26; Gaz. vol. 184; p. 939.
Clothes-drying rack. T. G. Amsden. No. 1,027,303; May 21; Sp. p. 4899; Gaz. vol. 178; p. 824.
Clothes-handling implement. J. F. O'Connor. No. 1,049,259; Dec. 31; Gaz. vol. 185; p. 1332.
Clothes-hanger. R. L. Gladden. No. 1,036,607; Aug. 27; Gaz. vol. 181; p. 853.
Clothes-hanger. D. D. Jones. No. 1,037,487; Sept. 3; Gaz. vol. 182; p. 106.
Clothes-hook. J. Raes. No. 1,035,740; Aug. 13; Gaz. vol. 181; p. 481.
Clothes-hook. R. Denny. No. 1,041,441; Oct. 15; Gaz. vol. 183; p. 663.
Clothes-line. J. B. Tuttle and R. P. Robinson. No. 1,040,467; Oct. 8; Gaz. vol. 183; p. 297.
Clothes-line. W. P. Henderson. No. 1,042,345; Oct. 22; Gaz. vol. 183; p. 1002.
Clothes-line. E. G. Echternach. No. 1,046,570; Dec. 10; Gaz. vol. 185; p. 308.
Clothes-line and merry-go-round, Combination. N. G. Zuzulin. No. 1,028,418; June 4; Sp. p. 779; Gaz. vol. 179; p. 118.
Clothes-line controller. T. B. Devine. No. 1,028,099; June 4; Sp. p. 14; Gaz. vol. 179; p. 5.
Clothes-line hand-reel. W. E. Huenefeld. No. 1,039,288; Sept. 24; Gaz. vol. 182; p. 802.
Clothes-line hanger. J. J. Foss. No. 1,032,395; July 16; Gaz. vol. 180; p. 619.
Clothes-line hanger. L. Kalmanovits. No. 1,043,604; Nov. 5; Gaz. vol. 184; p. 199.
Clothes-line hanger. M. J. Greubel. No. 1,045,393; Nov. 26; Gaz. vol. 184; p. 906.
Clothes-line holder. M. Markiewicz. No. 1,048,558; Dec. 31; Gaz. vol. 185; p. 1090.
Clothes-line holder, Safety. G. Rudolph. No. 1,046,652; Dec. 10; Gaz. vol. 185; p. 336.
Clothes-line, Metallic. C. F. Christopher. No. 1,041,027; Oct. 15; Gaz. vol. 183; p. 523.
Clothes-line prop. W. Beaver. No. 1,014,688; Jan. 16; Sp. p. 3568; Gaz. vol. 174; p. 610.
Clothes-line prop. G. C. Sharp. No. 1,018,523; Feb. 27; Sp. p. 5121; Gaz. vol. 175; p. 892.
Clothes-line prop. A. S. Hoxie. No. 1,046,787; Dec. 10; Gaz. vol. 185; p. 386.
Clothes-line reel. C. D. Riggle. No. 1,015,459; Jan. 23; Sp. p. 5246; Gaz. vol. 174; p. 899.
Clothes-line reel. L. S. Hackney. No. 1,016,493; Feb. 6; Sp. p. 582; Gaz. vol. 175; p. 90.
Clothes-line reel. R. H. and W. A. McNair. No. 1,017,010; Feb. 13; Sp. p. 1732; Gaz. vol. 175; p. 302.
Clothes-line reel. W. Boss. No. 1,017,734; Feb. 20; Sp. p. 3271; Gaz. vol. 175; p. 586.
Clothes-line reel. C. W. Ott. No. 1,020,440; Mar. 19; Sp. p. 3038; Gaz. vol. 176; p. 550.
Clothes-line reel. F. Eiche. No. 1,024,978; Apr. 30; Sp. p. 6950; Gaz. vol. 177; p. 1222.
Clothes-line reel. R. Ulbrecht. No. 1,046,684; Dec. 10; Gaz. vol. 185; p. 348.
Clothes-line reel and stretcher. C. Johnson. No. 1,027,655; May 28; Sp. p. 5613; Gaz. vol. 178; p. 980.
Clothes-line support. G. Frey. No. 1,014,291; Jan. 9; Sp. p. 2668; Gaz. vol. 174; p. 445.
Clothes-line support. G. Lefevre. No. 1,017,428; Feb. 13; Sp. p. 2655; Gaz. vol. 175; p. 448.
Clothes-line support. P. S. Stancliff. No. 1,021,274; Mar. 26; Sp. p. 4821; Gaz. vol. 176; p. 879.
Clothes-line support. M. Horovich. No. 1,026,865; May 21; Sp. p. 3899; Gaz. vol. 178; p. 673.
Clothes-line support. E. Eschelbacher. No. 1,033,566; July 23; Gaz. vol. 180; p. 1052.
Clothes-line support. M. Ruth. No. 1,038,968; Sept. 17; Gaz. vol. 182; p. 675.
Clothes-line support. R. M. Craig. No. 1,045,104; Nov. 19; Gaz. vol. 184; p. 777.
Clothes-line support. W. Whirtley. No. 1,045,230; Nov. 26; Gaz. vol. 184; p. 851.
Clothes-line support, Adjustable. J. H. Woolhiser. No. 1,048,780; Dec. 31; Gaz. vol. 185; p. 1168.
Clothes-line-supporting device. K. G. Hunt. No. 1,035,706; Aug. 13; Gaz. vol. 181; p. 471.
Clothes-pin. S. P. Hornseth. No. 1,020,203; Mar. 12; Sp. p. 2562; Gaz. vol. 176; p. 434.
Clothes-pin. F. Comeau. No. 1,030,386; June 25; Sp. p. 5072; Gaz. vol. 179; p. 904.
Clothes-pin. J. A. Hostettler. No. 1,040,542; Oct. 8; Gaz. vol. 183; p. 325.
Clothes-pin. E. A. Normand. No. 1,044,805; Nov. 19; Gaz. vol. 184; p. 675.
Clothes-pin bag. A. M. Schiele. No. 1,025,651; May 7; Sp. p. 1221; Gaz. vol. 178; p. 188.
Clothes-pin holder. J. J. Harris. No. 1,017,097; Feb. 13; Sp. p. 1944; Gaz. vol. 175; p. 334.
Clothes-pin, Metallic. F. A. Hawk. No. 1,041,785; Oct. 22; Gaz. vol. 183; p. 815.
Clothes-pins or similar articles, Making. F. H. Perry. No. 1,020,443; Mar. 19; Sp. p. 3041; Gaz. vol. 176; p. 551.
Clothes-pounder. E. R. Crooker. No. 1,039,701; Oct. 1; Gaz. vol. 183; p. 9.
Clothes-press. W. T. Francis. No. 1,015,167; Jan. 16; Sp. p. 4581; Gaz. vol. 174; p. 772.
Clothes-pressing machine. D. C. Hale, Jr. No. 1,037,899; Sept. 10; Gaz. vol. 182; p. 275.
Clothes-rack. A A. Boschee. No. 1,021,654; Mar. 26; Sp. p. 5615; Gaz. vol. 176; p. 1010.
Clothes-rack. C. W. Dudley. No. 1,031,989; July 9; Gaz. vol. 180; p. 437.
Clothes-rack. C. M. Goode. No. 1,035,575; Aug. 13; Gaz. vol. 181; p. 428.
Clothes-rack. B. L. Mohney. No. 1,046,319; Dec. 3; Gaz. vol. 185; p. 181.
Clothes-rack. F. D. Pelletier. No. 1,047,694; Dec. 17; Gaz. vol. 185; p. 732.
Clothes-receptacle, Portable. O. Weeks. No. 1,046,354; Dec. 3; Gaz. vol. 185; p. 193.
Clothes-reel. F. S. Powers. No. 1,020,446; Mar. 19; Sp. p. 3046; Gaz. vol. 176; p. 551.
Clothes-sprinkler, Self-feeding. A. W. Tesch. No. 1,038,025; Sept. 10; Gaz. vol. 182; p. 319.
Clothes-stick. S. Harding. No. 1,024,401; Apr. 23; Sp. p. 5660; Gaz. vol. 177; p. 985.
Clothes-washer. M. G. Evans and G. W. Logan. No. 1,016,820; Feb. 6; Sp. p. 1307; Gaz. vol. 175; p. 201.
Clothes-washer. C. H. Hyman. No. 1,027,543; May 28; Sp. p. 5385; Gaz. vol. 178; p. 944.
Clothes-washer. S. P. Foreman. No. 1,047,192; Dec. 17; Gaz. vol. 185; p. 552.
Clothes-wringer. M. P. Janisch. No. 1,018,422; Feb. 27; Sp. p. 4848; Gaz. vol. 175; p. 858.
Clothes-wringer. J. C. Thompson. No. 1,036,027; Aug. 20; Gaz. vol. 181; p. 616.
Clothes-wringer. J. Davies. No. 1,038,304; Sept. 10; Gaz. vol. 182; p. 411.
Clothes-wringer attachment for bath-tubs. J. L. Mayer. No. 1,044,897; Nov. 19; Gaz. vol. 184; p. 706.
Clothes-wringer clamp. P. V. Parrish. No. 1,017,584; Feb. 13; Sp. p. 2959; Gaz. vol. 175; p. 499.
Clothing delivery and protecting appliance. W. Falk, Jr. No. 1,048,818; Dec. 31; Gaz. vol. 185; p. 1182.
Clothing, Manufacture of. H. M. Lyles and B. Kranzberg. No. 1,037,945; Sept. 10; Gaz. vol. 182; p. 292.
Clothing to flats, Machine for attaching. C. Mills. No. 1,029,452; June 11; Sp. p. 3014; Gaz. vol. 179; p. 504.
Clover-buncher. H. W. Clark. No. 1,041,963; Oct. 22; Gaz. vol. 183; p. 875.
Clover-huller. M. King. No. 1,041,809; Oct. 22; Gaz. vol. 183; p. 824.
Clutch. L. Wirtz. No. 1,013,979; Jan. 9; Sp. p. 1993; Gaz. vol. 174; p. 337.
Clutch. C. A. Juengst. No. 1,014,481; Jan. 9; Sp. p. 3066; Gaz. vol. 174; p. 509.
Clutch. M. B. Ireland. No. 1,014,826; Jan. 16; Sp. p. 3871; Gaz. vol. 174; p. 657.
Clutch. J. K. McKelvey. No. 1,017,577; Feb. 13; Sp. p. 2946; Gaz. vol. 175; p. 498.
Clutch. F. H. Jones. No. 1,017,762; Feb. 20; Sp. p. 3336; Gaz. vol. 175; p. 597.
Clutch. C. C. Rich. No. 1,017,802; Feb. 20; Sp. p. 3475; Gaz. vol. 175; p. 611.
Clutch. F. S. Jones. No. 1,018,620; Feb. 27; Sp. p. 5331; Gaz. vol. 175; p. 925.
Clutch. F. S. Ellett. No. 1,018,890; Feb. 27; Sp. p. 5895; Gaz. vol. 175; p. 1016.
Clutch. F. S. Ellett. No. 1,018,891; Feb. 27; Sp. p. 5898; Gaz. vol. 175; p. 1017.
Clutch. M. N. Prange. No. 1,020,778; Mar. 19; Sp. p. 3780; Gaz. vol. 176; p. 662.
Clutch. F. R. Allen. No. 1,025,043; Apr. 30; Sp. p. 7076; Gaz. vol. 177; p. 1244.
Clutch. J. Gustafson. No. 1,026,437; May 14; Sp. p. 2971; Gaz. vol. 178; p. 492.
Clutch. N. C. Miller. No. 1,028,764; June 4; Sp. p. 1499; Gaz. vol. 179; p. 233.
Clutch. C. E. O. Hager. No. 1,029,607; June 18; Sp. p. 3334; Gaz. vol. 179; p. 594.
Clutch. W. H. Cameron. No. 1,031,240; July 2; Gaz. vol. 180; p. 138.
Clutch. S. H. Pitkin and F. Moeller. No. 1,031,729; July 9; Gaz. vol. 180; p. 348.
Clutch. A. D. Adriance. No. 1,034,183; July 30; Gaz. vol. 180; p. 1289.
Clutch. J. J. Rufe. No. 1,034,514; Aug. 6; Gaz. vol. 181; p. 38.
Clutch. K. Crittenden. No. 1,034,694; Aug. 6; Gaz. vol. 181; p. 97.
Clutch. C. H. Taylor and H. E. Coffin. No. 1,034,845; Aug. 6; Gaz. vol. 181; p. 149.

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Clutch. H. E. Edwards. No. 1,034,893; Aug. 6; Gaz. vol. 181; p. 165.
Clutch. L. J. Campbell. No. 1,036,560; Aug. 27; Gaz. vol. 181; p. 837.
Clutch. A. F. Walther. No. 1,038,033; Sept. 10; Gaz. vol. 182; p. 321.
Clutch. G. Bergmark. No. 1,039,351; Sept. 24; Gaz. vol. 182; p. 823.
Clutch. H. B. Savage. No. 1,039,595; Sept. 24; Gaz. vol. 182; p. 909.
Clutch. G. T. Trundle. No. 1,040,466; Oct. 8; Gaz. vol. 183; p. 297.
Clutch. G. L. Brownell. No. 1,041,010; Oct. 15; Gaz. vol. 183; p. 517.
Clutch. J. W. Denmead. No. 1,042,409; Oct. 29; Gaz. vol. 183; p. 1051.
Clutch. R. J. Denio. No. 1,043,406; Nov. 5; Gaz. vol. 184; p. 129.
Clutch. H. A. Budde. No. 1,043,566; Nov. 5; Gaz. vol. 184; p. 187.
Clutch. E. W. Crabbe. No. 1,043,805; Nov. 12; Gaz. vol. 184; p. 298.
Clutch. W. J. Herrick. No. 1,043,932; Nov. 12; Gaz. vol. 184; p. 342.
Clutch. E. L. Mead. No. 1,044,220; Nov. 12; Gaz. vol. 184; p. 441.
Clutch. F. S. Ellett. No. 1,045,688; Nov. 26; Gaz. vol. 184; p. 1013.
Clutch. J. Chalmers. No. 1,046,440; Dec. 10; Gaz. vol. 185; p. 261.
Clutch. G. H. Schaffer. No. 1,046,866; Dec. 10; Gaz. vol. 185; p. 411.
Clutch. M. and E. M. Deiller. No. 1,046,995; Dec. 10; Gaz. vol. 185; p. 453.
Clutch. C. S. Smith. No. 1,047,713; Dec. 17; Gaz. vol. 185; p. 739.
Clutch. E. H. Haney. No. 1,047,801; Dec. 17; Gaz. vol. 185; p. 768.
Clutch. L. J. Campbell. No. 1,048,036; Dec. 24; Gaz. vol. 185; p. 875.
Clutch-actuating mechanism. P. Daimler. No. 1,039,495; Sept. 24; Gaz. vol. 182; p. 873.
Clutch-actuating mechanism. P. Daimler. No. 1,045,527; Nov. 26; Gaz. vol. 184; p. 956.
Clutch and engine-starter, Combined elastic. E. U. G. Reagan. No. 1,024,099; Apr. 23; Sp. p. 5002; Gaz. vol. 177; p. 883.
Clutch, Automatic. P. Leone. No. 1,028,750; June 4; Sp. p. 1475; Gaz. vol. 179; p. 228.
Clutch, Automatic. O. C. Talbot. (Reissue.) No. 13,444; July 16; Gaz. vol. 180; p. 851.
Clutch, Automatic speed-regulating. J. A. Volk, Jr. No. 1,044,307; Nov. 12; Gaz. vol. 184; p. 472.
Clutch casing, Friction-. S. B. Peck. No. 1,020,441; Mar. 19; Sp. p. 3039; Gaz. vol. 176; p. 550.
Clutch, Centrifugal. J. B. Wiard. No. 1,032,524; July 16; Gaz. vol. 180; p. 662.
Clutch-collar. D. Langevin. No. 1,024,344; Apr. 23; Sp. p. 5515; Gaz. vol. 177; p. 966.
Clutch, Combined friction and jaw. H. F. Noyes. No. 1,024,595; Apr. 30; Sp. p. 6161; Gaz. vol. 177; p. 1088.
Clutch, Combined friction and positive. F. T. Goodwin. No. 1,044,515; Nov. 19; Gaz. vol. 184; p. 572.
Clutch-controller, Pneumatic. W. D. Nickum and M. Claussen. No. 1,018,772; Feb. 27; Sp. p. 5657; Gaz. vol. 175; p. 977.
Clutch-controlling device. P. Utne. No. 1,017,825; Feb. 20; Sp. p. 3517; Gaz. vol. 175; p. 618.
Clutch-coupling. M. A. Harris. No. 1,040,317; Oct. 8; Gaz. vol. 183; p. 248.
Clutch device. I. S. Whisler. No. 1,015,254; Jan. 16; Sp. p. 4759; Gaz. vol. 174; p. 802.
Clutch device. J. P. Coleman. No. 1,035,535; Aug. 18; Gaz. vol. 181; p. 415.
Clutch, Electromagnetic. K. Miram and L. Seidel. No. 1,031,081; July 2; Gaz. vol. 180; p. 83.
Clutch, Elevator-. S. Sanna. No. 1,031,470; July 2; Gaz. vol. 180; p. 217.
Clutch, Emergency-. A. L. De Leeuw. No. 1,035,547; Aug. 13; Gaz. vol. 181; p. 419.
Clutch-facings, Producing conical. H. S. Williams. No. 1,019,396; Mar. 5; Sp. p. 917; Gaz. vol. 176; p. 134.
Clutch, Flexible jointed. C. Beale and D. P. Moore. No. 1,015,259; Jan. 16; Sp. p. 4774; Gaz. vol. 174; p. 804.
Clutch, Fluid-. G. T. Johnson. No. 1,017,216; Feb. 13; Sp. p. 2208; Gaz. vol. 175; p. 375.
Clutch, Fluid-. P. Weeks. No. 1,021,282; Mar. 26; Sp. p. 4836; Gaz. vol. 176; p. 882.
Clutch, Fluid-. T. F. Rainsford. No. 1,025,481; May 7; Sp. p. 833; Gaz. vol. 178; p. 130.
Clutch, Fluid-. G. G. Crane. No. 1,030,463; June 25; Sp. p. 5236; Gaz. vol. 179; p. 932.
Clutch, Fluid-. J. C. Carpenter. No. 1,031,621; July 2; Gaz. vol. 180; p. 267.
Clutch, Fluid-. W. W. Henderson. No. 1,032,283; July 9; Gaz. vol. 180; p. 537.
Clutch, Fluid-. J. C. Carpenter. No. 1,033,048; July 16; Gaz. vol. 180; p. 839.
Clutch, Fluid-. A. H. Shoemaker. No. 1,034,739; Aug. 6; Gaz. vol. 181; p. 112.
Clutch, Fluid-. A. H. Shoemaker. No. 1,034,740; Aug. 6; Gaz. vol. 181; p. 113.
Clutch, Fluid-. C. A. Sawtelle. No. 1,035,478; Aug. 13; Gaz. vol. 181; p. 395.
Clutch, Fluid-. J. W. Rosche. No. 1,041,169; Oct. 15; Gaz. vol. 183; p. 572.
Clutch, Fluid-. J. H. Dodson. No. 1,042,410; Oct. 29; Gaz. vol. 183; p. 1051.
Clutch, Fluid-actuated. R. Diesel. No. 1,018,412; Feb. 27; Sp. p. 4831; Gaz. vol. 175; p. 855.
Clutch, Fluid-actuated. F. C. Mott. No. 1,045,315; Nov. 26; Gaz. vol. 184; p. 879.
Clutch, Fluid-actuated. T. A. Haakonson. No. 1,046,585; Dec. 10; Gaz. vol. 185; p. 313.
Clutch, Fluid-operated. J. R. McGiffert. No. 1,027,493; May 28; Sp. p. 5282; Gaz. vol. 178; p. 926.
Clutch for automobiles and the like. A. B. Morse. No. 1,016,427; Feb. 6; Sp. p. 416; Gaz. vol. 175; p. 66.
Clutch for cheese-cutters. G. F. Kriesel. No. 1,014,652; Jan. 16; Sp. p. 3483; Gaz. vol. 174; p. 597.
Clutch for engine-starters. C. Burton and R. Gardner. No. 1,042,887; Oct. 29; Gaz. vol. 183; p. 1219.
Clutch for loose pulleys, Friction-. H. T. Belden. No. 1,037,193; Sept. 3; Gaz. vol. 182; p. 5.
Clutch for navigational sounding-machines and the like. A. Lietz. No. 1,047,421; Dec. 17; Gaz. vol. 185; p. 634.
Clutch for power-presses, paper-cutters, &c., Safety-. L. H. Brown. No. 1,016,395; Feb. 6; Sp. p. 359; Gaz. vol. 175; p. 56.
Clutch, Friction-. W. V. Steiger. No. 1,013,848; Jan. 2; Sp. p. 1668; Gaz. vol. 174; p. 264.
Clutch, Friction-. R. M. Roof. No. 1,015,250; Jan. 16; Sp. p. 4746; Gaz. vol. 174; p. 800.
Clutch, Friction-. G. C. Martin. No. 1,019,267; Mar. 5; Sp. p. 570; Gaz. vol. 176; p. 91.
Clutch, Friction-. W. S. Harley. No. 1,020,199; Mar. 12; Sp. p. 2550; Gaz. vol. 176; p. 433.
Clutch, Friction-. H. Druschel. No. 1,021,972; Apr. 2; Sp. p. 480; Gaz. vol. 177; p. 76.
Clutch, Friction-. N. W. Gales. No. 1,023,249; Apr. 16; Sp. p. 3221; Gaz. vol. 177; p. 576.
Clutch, Friction-. H. Johnson. No. 1,024,006; Apr. 23; Sp. p. 4789; Gaz vol. 177; p. 850.
Clutch, Friction-. A. E. Jacobson. No. 1,025,190; May 7; Sp. p. 177; Gaz. vol. 178; p. 30.
Clutch, Friction-. W. Dennis. No. 1,027,377; May 21; Sp. p. 5047; Gaz. vol. 178; p. 850.
Clutch, Friction-. G. W. Shaffer. No. 1,029,147; June 11; Sp. p. 2342; Gaz. vol. 179; p. 399.
Clutch, Friction-. H. M. Norris. No. 1,030,424; June 25; Sp. p. 5155; Gaz. vol. 179; p. 918.
Clutch, Friction-. W. J. Hilliard. No. 1,035,346; Aug. 13; Gaz. vol. 181; p. 350.
Clutch, Friction-. L. W. Witry. No. 1,035,669; Aug. 13; Gaz. vol. 181; p. 459.
Clutch, Friction-. N. A. Christensen. No. 1,036,074; Aug. 20; Gaz. vol. 181; p. 634.
Clutch, Friction-. R. B. Disbrow. No. 1,037,876; Sept. 10; Gaz. vol. 182; p. 267.
Clutch, Friction-. J. Bowen. No. 1,040,866; Oct. 8; Gaz. vol. 183; p. 436.
Clutch, Friction-. C. E. Banks. No. 1,043,290; Nov. 5; Gaz. vol. 183; p. 86.
Clutch, Friction-. H. Hess. No. 1,043,423; Nov. 5; Gaz. vol. 184; p. 135.
Clutch, Friction-. S. Elliott. No. 1,047,011; Dec. 10; Gaz. vol. 185; p. 458.
Clutch, Friction-. W. H. Nelson. No. 1,047,109; Dec. 10; Gaz. vol. 185; p. 492.
Clutch, Friction-. C. Seybold. No. 1,047,313; Dec. 17; Gaz. vol. 185; p. 597.
Clutch, Governor-pulley. E. Craft. No. 1,019,305; Mar. 5; Sp. p. 673; Gaz. vol. 176; p. 105.
Clutch having removable wearing-surfaces, Friction-. H. Austin. No. 1,020,737; Mar. 19; Sp. p. 3699; Gaz. vol. 176; p. 649.
Clutch, Hydraulic. H. I. Manley. No. 1,043,617; Nov. 5; Gaz. vol. 184; p. 203.
Clutch-inserts, Means for adjusting. F. Jungjohann. No. 1,041,093; Oct. 15; Gaz. vol. 183; p. 546.
Clutch, Magnetic. V. Hemming. No. 1,038,131; Sept. 10; Gaz. vol. 182; p. 352.
Clutch mechanism. C. E. Smith. No. 1,013,457; Jan. 2; Sp. p. 799; Gaz. vol. 174; p. 128.
Clutch mechanism. H. S. Mustin. No. 1,015,394; Jan. 23; Sp. p. 5090; Gaz. vol. 174; p. 877.
Clutch mechanism. A. C. Webb. No. 1,016,052; Jan. 30; Sp. p. 6505; Gaz. vol. 174; p. 1132.
Clutch mechanism. C. Seitz. No. 1,016,647; Feb. 6; Sp. p. 953; Gaz. vol. 175; p. 143.
Clutch mechanism. W. H. Coldwell. No. 1,018,098; Feb. 20; Sp. p. 4159; Gaz. vol. 175; p. 715.
Clutch mechanism. F. R. Packham. No. 1,023,221; Apr. 16; Sp. p. 3168; Gaz. vol. 177; p. 567.
Clutch mechanism. F. B. Allen. No. 1,030,373; June 25; Sp. p. 5041; Gaz. vol. 179; p. 899.
Clutch mechanism. R. W. and L. H. Bateman. No. 1,032,179; July 9; Gaz. vol. 180; p. 500.
Clutch mechanism. L. A. Maurer. No. 1,032,759; July 16; Gaz. vol. 180; p. 744.

Alphabetical list of inventions—Continued.

Clutch mechanism. J. P. Cleal and J. G. Fletcher. No. 1,034,690; Aug. 6; Gaz. vol. 181; p. 95.
Clutch mechanism. J. M. Anderson. No. 1,035,135; Aug. 13; Gaz. vol. 181; p. 274.
Clutch mechanism for gang-plow lifters. F. J. Bradberry. No. 1,029,272; June 11; Sp. p. 2596; Gaz. vol. 179; p. 441.
Clutch mechanism for motor-shafts. J. Sabatino. No. 1,020,223; Mar. 12; Sp. p. 2603; Gaz. vol. 176; p. 441.
Clutch mechanism for sheet-conveying machines, Slow-down. T. C. Dexter and V. Garner. No. 1,045,685; Nov. 26; Gaz. vol. 184; p. 1012.
Clutch mechanism, Friction-. T. S. Miller. No. 1,024,737; Apr. 30; Sp. p. 6454; Gaz. vol. 177; p. 1138.
Clutch, Non-reversible. A. A. Faucher and T. Crosby. No. 1,021,748; Mar. 26; Sp. p. 5798; Gaz. vol. 176; p. 1041.
Clutch-operating mechanism, Friction-. O. A. Smith. No. 1,020,459; Mar. 19; Sp. p. 3070; Gaz. vol. 176; p. 556.
Clutch-operating mechanism, Friction-. C. B. King and C. B. Weston. No. 1,039,755; Oct. 1; Gaz. vol. 183; p. 29.
Clutch, Overload-. F. P. Glosh. No. 1,033,794; July 30; Gaz. vol. 180; p. 1151.
Clutch, Pneumatic. J. T. Dickson. No. 1,048,299; Dec. 24; Gaz. vol. 185; p. 963.
Clutch, Pneumatic friction-. J. A. Viele. No. 1,045,918; Dec. 3; Gaz. vol. 185; p. 42.
Clutch-release, Automatic. W. B. Keator. No. 1,017,219; Feb. 13; Sp. p. 2213; Gaz. vol. 175; p. 376.
Clutch, Roller-. H. M. Hunter. No. 1,024,580; Apr. 30; Sp. p. 6120; Gaz. vol. 177; p. 1083.
Clutch, Speed-regulator. H. L. Bostater. No. 1,018,476; Feb. 27; Sp. p. 4956; Gaz. vol. 175; p. 876.
Clutch, Split-ring. W. A. Cook. No. 1,014,865; Jan. 16; Sp. p. 3970; Gaz. vol. 174; p. 672.
Clutch, Strap-. J. L. Morrow. No. 1,038,628; Sept. 17; Gaz. vol. 182; p. 559.
Clutch, Tamper-handle. T. F. Boyle. No. 1,019,742; Mar. 5; Sp. p. 1587; Gaz. vol. 176; p. 247.
Clutch, Universal. J. Carl. No. 1,037,819; Sept. 3; Gaz. vol. 182; p. 213.
Clysterizing apparatus. A. G. Anderson. No. 1,023,452; Apr. 16; Sp. p. 3624; Gaz. vol. 177; p. 642.
Coal and slate separator. J. T. Norman. No. 1,025,587; May 7; Sp. p. 1080; Gaz. vol. 178; p. 167.
Coal, Apparatus for separating refuse from. G. W. Wilmot and R. L. Hinkle. No. 1,030,042; June 18; Sp. p. 4303; Gaz. vol. 179; p. 744.
Coal-boring bit. G. A. Moss. No. 1,040,383; Oct. 8; Gaz. vol. 183; p. 269.
Coal briquet and forming the same. W. W. Langdon. No. 1,015,033; Jan. 16; Sp. p. 4332; Gaz. vol. 174; p. 728.
Coal-distributer. E. L. Vise and C. Denham. No. 1,038,241; Sept. 10; Gaz. vol. 182; p. 389.
Coal-dumping device. N. Peterson. No. 1,025,833; May 7; Sp. p. 1582; Gaz. vol. 178; p. 251.
Coal-feeder. G. F. De Wein. No. 1,023,418; Apr. 16; Sp. p. 3552; Gaz. vol. 177; p. 632.
Coal furnace and stove. J. J. Dix. No. 1,023,459; Apr. 16; Sp. p. 3633; Gaz. vol. 177; p. 644.
Coal grading screen and picker table, Combination. O. B. Kloetzer. No. 1,032,612; July 16; Gaz. vol. 180; p. 691.
Coal-handling plant. F. W. Lovell. No. 1,028,235; June 4; Sp. p. 382; Gaz. vol. 179; p. 54.
Coal-hod and like handle. A. R. Pritchard. No. 1,048,733; Dec. 31; Gaz. vol. 185; p. 1151.
Coal-hod cover. M. P. Beecher. No. 1,033,770; July 23; Gaz. vol. 180; p. 1116.
Coal-holder. P. Kahlenberg. No. 1,048,543; Dec. 31; Gaz. vol. 185; p. 1085.
Coal-holes, manholes, vaults, trenches, &c., Cover for. H. A. Mugler and G. D. McNaughton. No. 1,035,722; Aug. 13; Gaz. vol. 181; p. 477.
Coal-leveling apparatus. J. M. B. Reis. No. 1,031,375; July 2; Gaz. vol. 180; p. 184.
Coal, Manufacturing artificial. J. Leach. No. 1,035,452; Aug. 13; Gaz. vol. 181; p. 387.
Coal, Manufacturing strongly-absorbent. F. Richter and L. von Orth. No. 1,027,153; May 21; Sp. p. 4601; Gaz. vol. 178; p. 772.
Coal, ores, &c., Storage of. W. F. Hunt. No. 1,026,444; May 14; Sp. p. 2998; Gaz. vol. 178; p. 494.
Coal-pocket. P. C. Blaisdell. No. 1,021,757; Apr. 2; Sp. p. 5; Gaz. vol. 177; p. 3.
Coal-punches, Machine for operating. A. Powell. No. 1,017,017; Feb. 13; Sp. p. 1744; Gaz. vol. 175; p. 304.
Coal-screening apparatus. W. K. Monroe. No. 1,023,582; Apr. 16; Sp. p. 3886; Gaz. vol. 177; p. 685.
Coal-separator. M. H. McTurk. No. 1,014,080; Jan. 9; Sp. p. 2216; Gaz. vol. 174; p. 371.
Coal-separator. D. J. Middleton, R. M. Keefer, and J. F. Ballamy. No. 1,040,374; Oct. 8; Gaz. vol. 183; p. 266.
Coal-tar, petroleum residues, creosote and schist oils, &c., into pitch. Conversion of. H. Hennebutte. No. 1,044,175; Nov. 12; Gaz. vol. 184; p. 426.
Coal-tipple. A. Allen. No. 1,032,800; July 16; Gaz. vol. 180; p. 757.
Coal-washing jig. G. W. Keller, C. and A. Brassington, and H. D. Kostenbauder. No. 1,041,800; Oct. 22; Gaz. vol. 183; p. 820.
Coaling device. C. C. Leftwich. No. 1,040,703; Oct. 8; Gaz. vol. 183; p. 384.
Coaling system. D. A. Lee. No. 1,048,325; Dec. 24; Gaz. vol. 185; p. 972.
Coaster, Beach-. G. W. Simpson. No. 1,023,601; Apr. 16; Sp. p. 3933; Gaz. vol. 177; p. 691.
Coaster-brake. G. Zimmerman. No. 1,018,471; Feb. 27; Sp. p. 4943; Gaz. vol. 175; p. 873.
Coaster-brake. W. P. Gordon. No. 1,022,937; Apr. 9; Sp. p. 2548; Gaz. vol. 177; p. 432.
Coaster-brake. P. W. Toohey. No. 1,025,598; May 7; Sp. p. 1101; Gaz. vol. 178; p. 171.
Coaster-brake. W. T. Carter. No. 1,026,972; May 21; Sp. p. 4171; Gaz. vol. 178; p. 712.
Coaster-brake. H. E. Van Ness and W. T. Kneale. No. 1,041,914; Oct. 22; Gaz. vol. 183; p. 860.
Coaster-brake. L. S. Kallajian. No. 1,042,006; Oct. 22; Gaz. vol. 183; p. 890.
Coaster-brake, Back-pedaling. J. H. Whittington. No. 1,023,347; Apr. 16; Sp. p. 3416; Gaz. vol. 177; p. 610.
Coat. M. Kohn. No. 1,014,651; Jan. 16; Sp. p. 3482; Gaz. vol. 174; p. 597.
Coat. F. T. Matthews. No. 1,017,781; Feb. 20; Sp. p. 3430; Gaz. vol. 175; p. 603.
Coat. I. Hershberg. No. 1,028,113; June 4; Sp. p. 40; Gaz. vol. 179; p. 11.
Coat and hat rack, Combined. L. E. Baldwin. No. 1,020,791; Mar. 19; Sp. p. 3803; Gaz. vol. 176; p. 666.
Coat and pants hanger, Combination. F. A. Collier. No. 1,018,299; Feb. 20; Sp. p. 4565; Gaz. vol. 175; p. 784.
Coat-armholes, Apparatus for stretching. J. Schlosser. No. 1,038,792; Sept. 17; Gaz. vol. 182; p. 616.
Coat-collar pattern. H. R. Western. No. 1,039,233; Sept. 24; Gaz. vol. 182; p. 782.
Coat-hanger. R. Rein. No. 1,014,976; Jan. 16; Sp. p. 4217; Gaz. vol. 174; p. 709.
Coat-hanger. W. E. Rape. No. 1,017,688; Feb. 20; Sp. p. 3174; Gaz. vol. 175; p. 571.
Coat-hanger. A. H. Doyle. No. 1,030,253; June 18; Sp. p. 4742; Gaz. vol. 179; p. 816.
Coat-hanger, Collapsible. J. W. Hamilton. No. 1,040,942; Oct. 8; Gaz. vol. 183; p. 461.
Coat-hanger, Folding. B. E. Leonard. No. 1,047,094; Dec. 10; Gaz. vol. 185; p. 486.
Coat-hanger for wardrobe-trunks. F. H. Parkhurst. No. 1,016,707; Feb. 6; Sp. p. 1074; Gaz. vol. 175; p. 165.
Coat, Reversible. M. Miller. No. 1,034,135; July 30; Gaz. vol. 180; p. 1272.
Coats, Producing. F. A. Antoni. No. 1,031,613; July 2; Gaz. vol. 180; p. 265.
Coating articles with paraffin or other coating material, Machine for. H. R. Heyl. No. 1,042,914; Oct. 29; Gaz. vol. 183; p. 1228.
Coating compound. T. E. Conway. No. 1,020,801; Mar. 19; Sp. p. 3821; Gaz. vol. 176; p. 669.
Coating-machine. E. G. Palmer. No. 1,026,765; May 21; Sp. p. 3697; Gaz. vol. 178; p. 639.
Coating-machine. F. E. Goldsmith. No. 1,027,414; May 28; Sp. p. 5135; Gaz. vol. 178; p. 901.
Coating-machine. C. W. Mayer. No. 1,043,021; Oct. 29; Gaz. vol. 183; p. 1265.
Coating-machine holder, Liquid-. R. A. Beausejour. No. 1,025,671; May 7; Sp. p. 1256; Gaz. vol. 178; p. 194.
Coating machine, Liquid-. R. A. Beausejour and G. Drubel. No. 1,014,282; Jan. 9; Sp. p. 2640; Gaz. vol. 174; p. 441.
Coating objects with subdivided material. F. F. Bradley. No. 1,034,761; Aug. 6; Gaz. vol. 181; p. 121.
Coating or mixing mineral aggregate with bituminous material, Machine for. C. P. Price. No. 1,019,522; Mar. 5; Sp. p. 1183; Gaz. vol. 176; p. 176.
Coating with metal. C. F. Burgess. No. 1,014,749; Jan. 16; Sp. p. 3690; Gaz. vol. 174; p. 630.
Coating with metal. C. F. Burgess. No. 1,014,750; Jan. 16; Sp. p. 3693; Gaz. vol. 174; p. 631.
Coatings, Apparatus for forming. E. W. Sample and W. H. Bason. No. 1,031,202; July 2; Gaz. vol. 180; p. 126.
Cock. W. H. Greatorex. No. 1,021,518; Mar. 26; Sp. p. 5371; Gaz. vol. 176; p. 966.
Cock and faucet. P. S. Hamrick. No. 1,027,474; May 28; Sp. p. 5244; Gaz. vol. 178; p. 920.
Cock and valve for liquids, gases, and steam. G. C. Hoare and T. Ackland. No. 1,031,932; July 9; Gaz. vol. 180; p. 418.
Cock, Automatic drain-. A. W. Lawnin. No. 1,021,537; Mar. 26; Sp. p. 5400; Gaz. vol. 176; p. 972.
Cock, Automatic slide-lever cylinder-. A. V. Pollmiller. No. 1,021,887; Apr. 2; Sp. p. 290; Gaz. vol. 177; p. 48.
Cock, Balance-. W. W. Dudley. No. 1,037,741; Sept. 3; Gaz. vol. 182; p. 188.
Cock, Ball-. L. Unckless. No. 1,016,458; Feb. 6; Sp. p. 508; Gaz. vol. 175; p. 78.
Cock, Ball-. E. J. Kivell. No. 1,037,638; Sept. 3; Gaz. vol. 182; p. 155.
Cock, Ball-. E. S. Stack. No. 1,038,014; Sept. 10; Gaz. vol. 182; p. 315.
Cock, Ball-. C. H. Ellis. No. 1,041,257; Oct. 15; Gaz. vol. 183; p. 602.
Cock, Ball-. J. L. Hague. No. 1,045,399; Nov. 26; Gaz. vol. 184; p. 908.

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Cock, Basin-. E. G. Watrous. No. 1,018,463; Feb. 27; Sp. p. 4930; Gaz. vol. 175; p. 871.
Cock, Blow-off. W. W. Hoffman. No. 1,031,554; July 2; Gaz. vol. 180; p. 245.
Cock, Combination beer-. H. Bell. No. 1,020,877; Mar. 19; Sp. p. 3987; Gaz. vol. 176; p. 694.
Cock, Convertible self-closing and compression. A. C. Schuermann. No. 1,044,694; Nov. 19; Gaz. vol. 184; p. 636.
Cock device, Angle-. W. V. Turner. No. 1,015,856; Jan. 30; Sp. p. 6087; Gaz. vol. 174; p. 1061.
Cock, Electric gas-. T. J. Litle, Jr. No. 1,047,907; Dec. 17; Gaz. vol. 185; p. 805.
Cock, Feed-. W. P. Winter. No. 1,044,327; Nov. 12; Gaz. vol. 184; p. 478.
Cock for flush-tanks, Ball-. W. A. Henn. No. 1,033,100; July 23; Gaz. vol. 180; p. 896.
Cock, Gage-. G. L. Tillotson and M. H. Nicholas. No. 1,014,538; Jan. 9; Sp. p. 3165; Gaz. vol. 174; p. 527.
Cock, Gage-. R. B. Swinny. No. 1,023,051; Apr. 9; Sp. p. 2758; Gaz. vol. 177; p. 470.
Cock, Gage-. C. E. Angier. No. 1,029,963; June 18; Sp. p. 4141; Gaz. vol. 179; p. 717.
Cock, Gage-. J. V. Scaife. No. 1,031,380; July 2; Gaz. vol. 180; p. 186.
Cock, Gage-. R. R. Shapley. No. 1,033,956; July 30; Gaz. vol. 180; p. 1210.
Cock, Gage-. N. G. Copley. No. 1,034,085; July 30; Gaz. vol. 180; p. 1256.
Cock, Gage-. L. W. Daniels. No. 1,039,652; Sept. 24; Gaz. vol. 182; p. 929.
Cock, Gas-. L. Bédard. No. 1,018,350; Feb. 20; Sp. p. 4656; Gaz. vol. 175; p. 800.
Cock, Gas-. A. W. Grove and D. F. Anderson. No. 1,039,386; Sept. 24; Gaz. vol. 182; p. 836.
Cock, Gas-. P. Mueller. No. 1,045,094; Nov. 19; Gaz. vol. 184; p. 774.
Cock, Gas-. J. Tolhurst and A. Wait. No. 1,048,764; Dec. 31; Gaz. vol. 185; p. 1162.
Cock-hole cover. P. and H. Mueller. No. 1,040,735; Oct. 8; Gaz. vol. 183; p. 394.
Cock, Interchangeable self-closing and compression. A. C. Schuermann. No. 1,036,012; Aug. 20; Gaz. vol. 181; p. 611.
Cock, Lock-. C. Stift. No. 1,015,094; Jan. 16; Sp. p. 4451; Gaz. vol. 174; p. 749.
Cock lock, Gas-. J. J. Comer. No. 1,016,872; Feb. 6; Sp. p. 1411; Gaz. vol. 175; p. 218.
Cock lock, Gas-. G. A. Glass. No. 1,039,048; Sept. 17; Gaz. vol. 182; p. 699.
Cock, Multiple. P. Mueller. No. 1,022,375; Apr. 2; Sp. p. 1292; Gaz. vol. 177; p. 209.
Cock-operating device, Gas-. A. H. Humphrey. No. 1,026,039; May 14; Sp. p. 2077; Gaz. vol. 178; p. 355.
Cock or faucet. H. Mueller. No. 1,024,093; Apr. 23; Sp. p. 4982; Gaz. vol. 177; p. 881.
Cock or faucet, Self-closing. H. Mueller. No. 1,046,399; Dec. 3; Gaz. vol. 185; p. 210.
Cock, Safety-. F. S. Bua. No. 1,014,805; Jan. 16; Sp. p. 3818; Gaz. vol. 174; p. 649.
Cock, Safety gas-. B. Devlin. No. 1,020,807; Mar. 19; Sp. p. 3833; Gaz. vol. 176; p. 671.
Cock seal, Service-. P. Mueller. No. 1,033,072; July 16; Gaz. vol. 180; p. 848.
Cock, Steam-gage. J. W. Fuller. No. 1,037,176; Aug. 27; Gaz. vol. 181; p. 1042.
Cock, Stop-. W. E. Suess. No. 1,015,358; Jan. 23; Sp. p. 5009; Gaz. vol. 174; p. 865.
Cock, Stop-. H. P. F. Hedger. No. 1,028,459; June 4; Sp. p. 875; Gaz. vol. 179; p. 132.
Cock, Stop-. H. E. Deckebach. No. 1,038,308; Sept. 10; Gaz. vol. 182; p. 412.
Cock, Stop-. M. S. Hollis. No. 1,040,327; Oct. 8; Gaz. vol. 183; p. 250.
Cock, Water-gage. G. M. Wolfe. No. 1,035,111; Aug. 6; Gaz. vol. 181; p. 236.
Cocks and the like, Device for automatically closing. K. V. Rotzov. No. 1,031,874; July 9; Gaz. vol. 180; p. 400.
Cocks, Shield or protector for stop-. F. J. Gemunder. No. 1,037,612; Sept. 3; Gaz. vol. 182; p. 145.
Cocks, Socket-head for curb-. P. Mueller. No. 1,032,492; July 16; Gaz. vol. 180; p. 652.
Cocks, Tool for inserting corporation-. P. Mueller. No. 1,024,096; Apr. 23; Sp. p. 4995; Gaz. vol. 177; p. 882.
Cocks, valves, switches, and the like, Apparatus for automatically opening and closing. W. Howlin. No. 1,026,586; May 14; Sp. p. 3268; Gaz. vol. 178; p. 540.
Cocoa powder, Producing. F. E. F. Neumann. No. 1,032,931; July 16; Gaz. vol. 180; p. 799.
Coffee and making same, Cereal. F. W. Bortner. No. 1,030,711; June 25; Sp. p. 5987; Gaz. vol. 179; p. 1020.
Coffee and tea pot. V. Paone. No. 1,035,099; Aug. 6; Gaz. vol. 181; p. 233.
Coffee and tea pot, Combined. J. R. Beasley. No. 1,035,407; Aug. 13; Gaz. vol. 181; p. 372.
Coffee and tea pot, Combined. L. S. James and H. R. Fryling. No. 1,035,444; Aug. 13; Gaz. vol. 181; p. 384.
Coffee and tea pot cover holder. W. Wood. No. 1,044,114; Nov. 12; Gaz. vol. 184; p. 405.
Coffee and the like, Apparatus for washing. R. Okrassa. No. 1,013,807; Jan. 2; Sp. p. 1567; Gaz. vol. 174; p. 249.
Coffee and the like, Machine for drying. R. Okrassa. No. 1,027,146; May 21; Sp. p. 4589; Gaz. vol. 178; p. 771.
Coffee-beans, Decaffeinating. L. Klein. No. 1,039,961; Oct. 1; Gaz. vol. 183; p. 96.
Coffee-berries, Machine for removing pulp from. J. M. Urgellés. No. 1,038,031; Sept. 10; Gaz. vol. 182; p. 320.
Coffee-berries, Treating. J. M. Urgellés. No. 1,038,032; Sept. 10; Gaz. vol. 182; p. 321.
Coffee, Decaffeinated. N. Rosewater. No. 1,016,293; Feb. 6; Sp. p. 126; Gaz. vol. 175; p. 20.
Coffee, Decaffeinated. N. Rosewater. No. 1,016,294; Feb. 6; Sp. p. 128; Gaz. vol. 175; p. 20.
Coffee-grinder. L. Warstler and P. F. Loichot. No. 1,027,019; May 21; Sp. p. 4276; Gaz. vol. 178; p. 728.
Coffee-grinder, W. A. McGuire. No. 1,034,833; Aug. 6; Gaz. vol. 181; p. 139.
Coffee huller and polisher. R. Okrassa. No. 1,035,631; Aug. 13; Gaz. vol. 181; p. 446.
Coffee-machine. C. Nelson and H. J. Axt. No. 1,026,405; May 14; Sp. p. 2912; Gaz. vol. 178; p. 482.
Coffee-machine. C. Nelson. No. 1,041,850; Oct. 22; Gaz. vol. 183; p. 838.
Coffee-mill. H. Tscherning. No. 1,032,635; July 16; Gaz. vol. 180; p. 701.
Coffee or tea, Steeping. G. B. De Lima. No. 1,041,822; Oct. 22; Gaz. vol. 183; p. 828.
Coffee-pot. T. J. Voyles. No. 1,013,340; Jan. 2; Sp. p. 555; Gaz. vol. 174; p. 89.
Coffee-pot. M. Parsons. No. 1,015,396; Jan. 23; Sp. p. 5095; Gaz. vol. 174; p. 878.
Coffee-pot. A. A. Smith. No. 1,018,684; Feb. 27; Sp. p. 5462; Gaz. vol. 175; p. 947.
Coffee-pot. A. H. S. Swan. No. 1,031,486; July 2; Gaz. vol. 180; p. 222.
Coffee-pot. J. J. Morgan. No. 1,041,143; Oct. 15; Gaz. vol. 183; p. 563.
Coffee-pot. J. V. Ramsey. No. 1,046,013; Dec. 3; Gaz. vol. 185; p. 73.
Coffee pot, Drip-. R. Petry. No. 1,018,337; Feb. 20; Sp. p. 4633; Gaz. vol. 175; p. 796.
Coffee preparation. A. H. Bullard. No. 1,026,971; May 21; Sp. p. 4170; Gaz. vol. 178; p. 712.
Coffee refiner and grader. F. F. Wear. No. 1,039,854; Oct. 1; Gaz. vol. 183; p. 63.
Coffee-refining machine. H. L. Johnston. No. 1,017,056; Feb. 13; Sp. p. 1837; Gaz. vol. 175; p. 319.
Coffee, Removing the toxic constituents from. H. de Pury. No. 1,041,160; Oct. 15; Gaz. vol. 183; p. 569.
Coffee-separator. R. Okrassa. No. 1,029,624; June 18; Sp. p. 3372; Gaz. vol. 179; p. 600.
Coffee, Treatment of. L. W. Geisler, Jr. No. 1,015,271; Jan. 16; Sp. p. 4801; Gaz. vol. 174; p. 808.
Coffin-case, Metallic. J. Jones. No. 1,026,513; May 14; Sp. p. 3141; Gaz. vol. 178; p. 518.
Coffin-fastener. C. H. Hiser. No. 1,029,013; June 11; Sp. p. 2060; Gaz. vol. 179; p. 354.
Coffin-fastener. G. W. Comee. No. 1,044,498; Nov. 19; Gaz. vol. 184; p. 566.
Coherer. C. D. Lanning. No. 1,019,260; Mar. 5; Sp. p. 554; Gaz. vol. 176; p. 88.
Coil-former. D. Miller. No. 1,032,925; July 16; Gaz. vol. 180; p. 798.
Coil-former. R. Varley. No. 1,047,899; Dec. 17; Gaz. vol. 185; p. 802.
Coil-forming apparatus. M. Sandfield. No. 1,037,998; Sept. 10; Gaz. vol. 182; p. 309.
Coil-forming machine. A. L. McHugh. No. 1,016,700; Feb. 6; Sp. p. 1059; Gaz. vol. 175; p. 162.
Coil-making apparatus. R. Varley. No. 1,047,720; Dec. 17; Gaz. vol. 185; p. 741.
Coil-making apparatus. R. Varley. No. 1,047,721; Dec. 17; Gaz. vol. 185; p. 741.
Coil-protector. H. E. Bailey. No. 1,043,660; Nov. 5; Gaz. vol. 184; p. 217.
Coil-winding machine. H. G. Sahlin. No. 1,025,835; May 7; Sp. p. 1585; Gaz. vol. 178; p. 252.
Coiler-making machine. W. J. Pine. No. 1,047,285; Dec. 17; Gaz. vol. 185; p. 587.
Coiler-tube. C. Mills. No. 1,040,566; Oct. 8; Gaz. vol. 183; p. 333.
Coin and bill carrier. C. S. J. Russell. No. 1,028,494; June 4; Sp. p. 950; Gaz. vol. 179; p. 143.
Coin and ticket delivery machine and cash-register. A. K. Cross. No. 1,035,862; Aug. 20; Gaz. vol. 181; p. 562.
Coin-collector. P. E. Oswald. No. 1,017,454; Feb. 13; Sp. p. 2723; Gaz. vol. 175; p. 458.
Coin-collector. A. F. Dixon. No. 1,040,526; Oct. 8; Gaz. vol. 183; p. 318.
Coin-collector. E. B. Craft and A. F. Dixon. No. 1,041,030; Oct. 15; Gaz. vol. 183; p. 524.
Coin-collector. O. F. Forsberg. No. 1,043,219; Nov. 5; Gaz. vol. 184; p. 63.
Coin-container. H. E. Harbaugh. No. 1,021,407; Mar. 26; Sp. p. 5128; Gaz. vol. 176; p. 927.
Coin-controlled apparatus. H. Schorske. No. 1,024,748; Apr. 30; Sp. p. 6487; Gaz. vol. 177; p. 1142.

Alphabetical list of inventions—Continued.

Coin-controlled apparatus. A. L. Nevels. No. 1,035,224; Aug. 13; Gaz. vol. 181; p. 306.
Coin-controlled apparatus. M. H. Brown. No. 1,048,490; Dec. 31; Gaz. vol. 185; p. 1066.
Coin-controlled device. D. P. Higgins. No. 1,018,055; Feb. 20; Sp. p. 4050; Gaz. vol. 175; p. 700.
Coin-controlled lock. N. Kretzer. No. 1,025,143; May 7; Sp. p. 67; Gaz. vol. 178; p. 12.
Coin-controlled lock. G. G. F. Boswell. No. 1,029,417; June 11; Sp. p. 2943; Gaz. vol. 179; p. 492.
Coin-controlled lock. G. G. F. Boswell. No. 1,031,833; July 9; Gaz. vol. 180; p. 384.
Coin-controlled lock. G. G. F. Boswell. No. 1,039,090; Sept. 24; Gaz. vol. 182; p. 731.
Coin-controlled lock. D. W. Wood. No. 1,041,396; Oct. 15; Gaz. vol. 183; p. 648.
Coin-controlled lock and conveyer. W. S. Farnsworth. No. 1,034,604; Aug. 6; Gaz. vol. 181; p. 67.
Coin-controlled machine. A. Rydquist. No. 1,034,147; July 30; Gaz. vol. 180; p. 1277.
Coin-controlled mechanism. G. L. Reichhelm. No. 1,045,185; Nov. 26; Gaz. vol. 184; p. 833.
Coin-controlled mechanism. C. J. Zirbel. No. 1,048,263; Dec. 24; Gaz. vol. 185; p. 950.
Coin counting and packaging device. A. Abbott. No. 1,037,405; Sept. 3; Gaz. vol. 182; p. 76.
Coin counting and wrapping machine. A. C. O. Bock. No. 1,024,057; Apr. 23; Sp. p. 4899; Gaz. vol. 177; p. 868.
Coin-counting apparatus. B. Lundin. No. 1,026,755; May 21; Sp. p. 3656; Gaz. vol. 178; p. 635.
Coin-delivery machine. A. K. Gross. No. 1,033,157; July 23; Gaz. vol. 180; p. 915.
Coin-detector. A. E. Marsh. No. 1,021,615; Mar. 26; Sp. p. 5552; Gaz. vol. 176; p. 997.
Coin-distributing apparatus. H. A. Smith. No. 1,039,604 Sept. 24; Gaz. vol. 182; p. 912.
Coin-freed mechanism. C. E. Hibberd. No. 1,038,136; Sept. 10; Gaz. vol. 182; p. 354.
Coin-handling apparatus. G. F. E. Henning. No. 1,043,006; Oct. 29; Gaz. vol. 183; p. 1260.
Coin-handling machine. R. B. Ware. No. 1,022,902; Apr. 9; Sp. p. 2442; Gaz. vol. 177; p. 418.
Coin-handling machine. F. L. Sattley. No. 1,047,305; Dec. 17; Gaz. vol. 185; p. 595.
Coin-holder. L. L. Joseph. No. 1,030,092; June 18; Sp. p. 4417; Gaz. vol. 179; p. 762.
Coin-holder. N. L. Anthony. No. 1,032,319; July 9; Gaz. vol. 180; p. 549.
Coin-holder. N. L. Anthony. No. 1,043,560; Nov. 5; Gaz. vol. 184; p. 184.
Coin-holder. F. S. Ellis. No. 1,046,749; Dec. 10; Gaz. vol. 185; p. 372.
Coin-holding pocket for covers. E. Krueger. No. 1,025,631; May 7; Sp. p. 1178; Gaz. vol. 178; p. 181.
Coin or ticket holder. W. A. Snyder. No. 1,039,833; Oct. 1; Gaz. vol. 183; p. 55.
Coin-packaging device. A. Abbott. No. 1,025,228; May 7; Sp. p. 261; Gaz. vol. 178; p. 43.
Coin-packaging machine. F. L. Sattley. No. 1,047,304; Dec. 17; Gaz. vol. 185; p. 594.
Coin-receptacle. O. Jaeger. No. 1,034,113; July 30; Gaz. vol. 180; p. 1265.
Coin-receptacle. J. F. Schwartz. No. 1,036,729; Aug. 27; Gaz. vol. 181; p. 893.
Coin-receptacle. I. M. Sharp. No. 1,037,551; Sept. 3; Gaz. vol. 182; p. 127.
Coin-receptacle. G. R. Perry. No. 1,045,175; Nov. 26; Gaz. vol. 184; p. 830.
Coin-receptacle-securing device. H. O. Schroeder. No. 1,021,634; Mar. 26; Sp. p. 5583; Gaz. vol. 176; p. 1003.
Coin-registering case or receptacle. M. H. Metal. No. 1,032,760; July 16; Gaz. vol. 180; p. 745.
Coin-selector. G. C. Reith and G. F. Flade. No. 1,038,655; Sept. 17; Gaz. vol. 182; p. 567.
Coin-selector. G. C. Reith. No. 1,042,968; Oct. 29; Gaz. vol. 183; p. 1246.
Coin-separator. A. B Flagg. No. 1,024,442; Apr. 23; Sp. p. 5733; Gaz. vol. 177; p. 998.
Coin slot-machine. J. M. McClatchie. No. 1,046,096; Dec. 3; Gaz. vol. 185; p. 102.
Coin sorter and counter. F. L. Sattley. No. 1,028,611; June 4; Sp. p. 1188; Gaz. vol. 179; p. 182.
Coin sorting and testing apparatus. S. Chiger. No. 1,038,293; Sept. 10; Gaz. vol. 182; p. 407.
Coin-sorting apparatus. A. U. Westfelt. No. 1,037,568; Sept. 3; Gaz. vol. 182; p. 132.
Coin-testing appliance. E. A. Buckman and H. L. Felio. No. 1,027,032; May 21; Sp. p. 4315; Gaz. vol. 178; p. 733.
Coin-tray. L. T. Savage. No. 1,022,442; Apr. 9; Sp. p. 1458; Gaz. vol. 177; p. 262.
Coin-wrapping machine. F. Hart. No. 1,038,361; Sept. 10; Gaz. vol. 182; p. 429.
Coke and similar loose material, Apparatus for handling. W. C. Mitchell. No. 1,013,676; Jan. 2; Sp. p. 1293; Gaz. vol. 174; p. 203.
Coke-conveyer. D. F. Lepley. No. 1,033,713; July 23; Gaz. vol. 180; p. 1099.
Coke-discharging apparatus. D. F. Lepley. No. 1,025,815; May 7; Sp. p. 1548; Gaz. vol. 178; p. 245.
Coke-discharging apparatus, Tilting-pan. W. C. Mitchell, No. 1,024,141; Apr. 23; Sp. p. 5105; Gaz. vol. 177; p. 898.
Coke-drawing machine. D. B. Stauft. No. 1,021,710; Mar. 26; Sp. p. 5716; Gaz. vol. 176; p. 1028.
Coke from horizontal and inclined retort-ovens, Method of and apparatus for effecting graded delivery of. H. Koppers. No. 1,036,648; Aug. 27; Gaz. vol. 181; p. 867.
Coke in coke-ovens, Apparatus for watering. C. E. Taylor and A. C. Wolfe. No. 1,049,006; Dec. 31; Gaz. vol. 185; p. 1246.
Coke, Manufacturing and purifying. W. S. Simpson. No. 1,047,845; Dec. 17; Gaz. vol. 185; p. 784.
Coke-oven. R. S. Moss. No. 1,025,419; May 7; Sp. p. 684; Gaz. vol. 178; p. 108.
Coke-oven. T. von Bauer. No. 1,026,894; May 21; Sp. p. 3980; Gaz. vol. 178; p. 685.
Coke-oven. E. Hohmann. No. 1,027,845; May 28; Sp. p. 6022; Gaz. vol. 178; p. 1043.
Coke-oven. T. von Bauer. No. 1,028,087; May 28; Sp. p. 6582; Gaz. vol. 178; p. 1123.
Coke-oven-charging apparatus. W. Hiby. No. 1,019,643; Mar. 5; Sp. p. 1403; Gaz. vol. 176; p. 215.
Coke-oven door. R. Kearns. No. 1,013,177; Jan. 2; Sp. p. 175; Gaz. vol. 174; p. 31.
Coke-oven door. R. Lucia. No. 1,015,696; Jan. 23; Sp. p. 5756; Gaz. vol. 174; p. 981.
Coke-oven door. W. O. White. No. 1,034,328; July 30; Gaz. vol. 180; p. 1339.
Coke-oven door. W. W. Macfarren. No. 1,045,864; Dec. 3; Gaz. vol. 185; p. 24.
Coke-oven, Horizontal. E. Hohmann. No. 1,047,635; Dec. 17; Gaz. vol. 185; p. 710.
Coke-oven of the regenerative type, Horizontal. E. Hohmann. No. 1,034,709; Aug. 6; Gaz. vol. 181; p. 103.
Coke-oven or gas-furnace charging machine. W. Feicks. No. 1,034,094; July 30; Gaz. vol. 180; p. 1259.
Coke-oven, Regenerative. J. G. Kros. No. 1,015,964; Jan. 30; Sp. p. 6317; Gaz. vol. 174; p. 1099.
Coke-oven, Regenerative. A. Gohmann. No. 1,041,457; Oct. 15; Gaz. vol. 183; p. 668.
Coke-oven system, Retort-. E. W. King. No. 1,038,762; Sept. 17; Gaz. vol. 182; p. 605.
Coke-oven, Vertical. A. O. Jones. No. 1,028,569; June 4; Sp. p. 1105; Gaz. vol. 179; p. 167.
Coke-ovens, Charging of. W. Hiby. No. 1,019,642; Mar. 5; Sp. p. 1402; Gaz. vol. 176; p. 215.
Coke-sprinkling apparatus. R. Hay, P. B. Rule, and D. Hay. No. 1,020,979; Mar. 26; Sp. p. 4208; Gaz. vol. 176; p. 782.
Coking briquets, Apparatus for. P. Hein. No. 1,037,479; Sept. 3; Gaz. vol. 182; p. 104.
Coking coal and producing gas. H. L. Doherty. No. 1,034,214; July 30; Gaz. vol. 180; p. 1299.
Cold-heading machine. C. S. Weeks. No. 1,024,046; Apr. 23; Sp. p. 4879; Gaz. vol. 177; p. 865.
Collapsible box. J. H. Stanton. No. 1,034,527; Aug. 6; Gaz. vol. 181; p. 43.
Collapsible box. A. M. Wight. No. 1,043,379; Nov. 5; Gaz. vol. 184; p. 119.
Collapsible box. F. H. Colgate. No. 1,044,023; Nov. 12; Gaz. vol. 184; p. 375.
Collapsible box or package. A. E. Bendelari. No. 1,020,878; Mar. 19; Sp. p. 3988; Gaz. vol. 176; p. 695.
Collapsible case. O. Kling. No. 1,045,412; Nov. 26; Gaz. vol. 184; p. 913.
Collapsible chair and bag, Combined. J. M. Arnold. No. 1,039,078; Sept. 24; Gaz. vol. 182; p. 727.
Collapsible cup. J. L. Follett. No. 1,020,347; Mar. 12; Sp. p. 2831; Gaz. vol. 176; p. 480.
Collapsible cup. L. R. Smith. No. 1,033,744; July 23; Gaz. vol. 180; p. 1108.
Collapsible cup or tray. A. F. Salstrom. No. 1,015,085; Jan. 16; Sp. p. 4431; Gaz. vol. 174; p. 745.
Collapsible drill. C. H. Osiund. No. 1,040,395; Oct. 8; Gaz. vol. 183; p. 273.
Collapsible drinking-cup. C. W. Barnett. No. 1,032,731; July 16; Gaz. vol. 180; p. 735.
Collapsible reel. E. H. Broden and J. G. Mustin. No. 1,017,130; Feb. 13; Sp. p. 2006; Gaz. vol. 175; p. 345.
Collapsible tube. H. W. Snow. No. 1,021,709; Mar. 26; Sp. p. 5715; Gaz. vol. 176; p. 1027.
Collapsible tube. G. D. Hazen. No. 1,027,728; May 28; Sp. p. 5757; Gaz. vol. 178; p. 1003.
Collapsible tube. C. H. Stuart. No. 1,045,629; Nov. 26; Gaz. vol. 184; p. 992.
Collar. W. M. Shewry. No. 1,014,527; Jan. 9; Sp. p. 3151; Gaz. vol. 174; p. 524.
Collar. W. H. Stevens. No. 1,015,747; Jan. 23; Sp. p. 5853; Gaz. vol. 174; p. 998.
Collar. N. J. Whitaker. No. 1,021,283; Mar. 26; Sp. p. 4839; Gaz. vol. 176; p. 883.
Collar. M. R. Rice. No. 1,029,891; June 18; Sp. p. 3983; Gaz. vol. 179; p. 693.
Collar. S. Harris. No. 1,039,528; Sept. 24; Gaz. vol. 182; p. 886.
Collar. S. Harris. No. 1,039,680; Sept. 24; Gaz. vol. 182; p. 938.
Collar. M. F. McNamara. No. 1,047,130; Dec. 10; Gaz. vol. 185; p. 501.

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Collar. S. Harris, (now by marriage S. Rosentover.) No. 1,048,155; Dec. 24; Gaz. vol. 185; p. 916.
Collar, Adjustable horse-. E. Walrath. No. 1,040,820; Oct. 8; Gaz. vol. 183; p. 421.
Collar, Adjustable spacing-. J. E. Marble. No. 1,035,799; Aug. 13; Gaz. vol. 181; p. 502.
Collar and hames, Horse-. J. N. Langum. No. 1,020,042; Mar. 12; Sp. p. 2205; Gaz. vol. 176; p. 380.
Collar and hood. I. N. Levy. No. 1,020,360; Mar. 12; Sp. p. 2853; Gaz. vol. 176; p. 483.
Collar and neck-pad support. F. W. Lindquist. No. 1,014,074; Jan. 9; Sp. p. 2205; Gaz. vol. 174; p. 369.
Collar and necktie holder. D. R. McDuff. No. 1,014,834; Jan. 16; Sp. p. 3894; Gaz. vol. 174; p. 661.
Collar and shirt securing device or fastener. J. Boivin. No. 1,047,733; Dec. 17; Gaz. vol. 185; p. 745.
Collar and tie. A. C. Heichelbech. No. 1,017,414; Feb. 13; Sp. p. 2622; Gaz. vol. 175; p. 443.
Collar and tie retainer. C. A. Barnes. No. 1,036,422; Aug. 20; Gaz. vol. 181; p. 757.
Collar-assembling apparatus. F. H. Norris. No. 1,027,355; May 21; Sp. p. 4995; Gaz. vol. 178; p. 842.
Collar attachment, Scarf-holding. T. S. Hamilton. No. 1,022,734; Apr. 9; Sp. p. 2119; Gaz. vol. 177; p. 363.
Collar clamp, Horse-. T. Voigt. No. 1,037,374; Sept. 3; Gaz. vol. 182; p. 66.
Collar coupling or fastener. W. Wilson. No. 1,020,242; Mar. 12; Sp. p. 2637; Gaz. vol. 176; p. 447.
Collar-fastener. G. A. Stiles. No. 1,041,368; Oct. 15; Gaz. vol. 183; p. 639.
Collar-fastener, Adjustable. D. Simon. No. 1,044,932; Nov. 19; Gaz. vol. 184; p. 718.
Collar-fastening device. R. Krasberg. No. 1,021,414; Mar. 26; Sp. p. 5140; Gaz. vol. 176; p. 930.
Collar for neckwear. A. H. Parsons. No. 1,023,223; Apr. 16; Sp. p. 3172; Gaz. vol. 177; p. 568.
Collar for neckwear. F. W. Parsons. No. 1,046,326; Dec. 3; Gaz. vol. 185; p. 184.
Collar foundation. A. M. Weber. No. 1,020,786; Mar. 19; Sp. p. 3794; Gaz. vol. 176; p. 665.
Collar, Horse-. D. A. Smith. No. 1,017,477; Feb. 13; Sp. p. 2765; Gaz. vol. 175; p. 466.
Collar, Horse-. E. D. Hale. No. 1,047,628; Dec. 17; Gaz. vol. 185; p. 708.
Collar, Ox-. J. B. Lesquerre. No. 1,025,409; May 7; Sp. p. 666; Gaz. vol. 178; p. 105.
Collar or cuff package. C. Cahn. No. 1,015,000; Jan. 16; Sp. p. 4272; Gaz. vol. 174; p. 717.
Collar-reinforcing means. C. Schenck. No. 1,020,576; Mar. 19; Sp. p. 3345; Gaz. vol. 176; p. 594.
Collar-shaping machine. J. B. Hamilton. No. 1,017,291; Feb. 13; Sp. p. 2353; Gaz. vol. 175; p. 400.
Collar-shaping machine. W. K. Hatler. No. 1,047,218; Dec. 17; Gaz. vol. 185; p. 562.
Collar-shaping machine, Fold-. E. H. Worthington. No. 1,016,312; Feb. 6; Sp. p. 170; Gaz. vol. 175; p. 26.
Collar, Split. F. A. Schulz. No. 1,029,950; June 18; Sp. p. 4109; Gaz. vol. 179; p. 713.
Collar-support. N. A. Krischer. No. 1,013,783; Jan. 2; Sp. p. 1523; Gaz. vol. 174; p. 242.
Collar-supporter. E. Caspary. No. 1,021,916; Apr. 2; Sp. p. 346; Gaz. vol. 177; p. 57.
Collar-supporter. F. B. Reynolds. No. 1,024,865; Apr. 30; Sp. p. 6726; Gaz. vol. 177; p. 1184.
Collar-supporter. I. J. Stewart. No. 1,033,962; July 30; Gaz. vol. 180; p. 1212.
Collar-supporter. J. W. Schloss. No. 1,040,026; Oct. 1; Gaz. vol. 183; p. 118.
Collar-supporter. J. H. and I. Taylor. No. 1,040,458; Oct. 8; Gaz. vol. 183; p. 294.
Collar throat, Horse-. C. C. Rose. No. 1,013,688; Jan. 2; Sp. p. 1339; Gaz. vol. 174; p. 207.
Collars, cuffs, &c., Blank-folding machine for the manufacture of. J. H. Ramsey, H. M. Clearwater, and J. Temple. No. 1,043,722; Nov. 5; Gaz. vol. 184; p. 238.
Collars in position to be repaired, Device for retaining horse-. J. A. Moorman. No. 1,049,312; Dec. 31; Gaz. vol. 185; p. 1350.
Collars, Manufacture of fold-. J. McKay. No. 1,045,724; Nov. 26; Gaz. vol. 184; p. 1026.
Collars or cuffs, Receptacle for. G. B. Kelly. No. 1,048,175; Dec. 24; Gaz. vol. 185; p. 923.
Collective system. H. Siedentopf. No. 1,016,369; Feb. 6; Sp. p. 290; Gaz. vol. 175; p. 46.
Collisions at sea, Device for preventing. D. H. Taylor. No. 1,020,330; Mar. 12; Sp. p. 2796; Gaz. vol. 176; p. 474.
Color-lake and manufacturing same. E. Ulrichs. No. 1,028,239; June 4; Sp. p. 392; Gaz. vol. 179; p. 56.
Color-lakes and making same. O. Stachlin and K. Zechentmayer. No. 1,031,823; July 9; Gaz. vol. 180; p. 381.
Color-study device. E. F. Wagner. (Reissue.) No. 13,358; Jan. 9; Sp. p. 3428; Gaz. vol. 174; p. 567.
Coloring-matter, Azo. A. Zart. No. 1,022,287; Apr. 2; Sp. p. 1125; Gaz. vol. 177; p. 179.
Coloring-matter, Azo. A. Zart. No. 1,022,288; Apr. 2; Sp. p. 1126; Gaz. vol. 177; p. 179.
Coloring-matter, Manufacture of azo. H. Bucherer. No. 1,026,902; May 21; Sp. p. 4003; Gaz. vol. 178; p. 687.
Coloring-matter, Producing organic. M. Wechsler. No. 1,031,602; July 2; Gaz. vol. 180; p. 261.
Coloring-matters, Black. J. Turner and H. Dean. No. 1,028,306; June 4; Sp. p. 531; Gaz. vol. 179; p. 77.
Coloring-matters containing a carbazole derivative, Manufacture of azo. H. Bucherer. No. 1,024,308; Apr. 23; Sp. p. 5456; Gaz. vol. 177; p. 956.
Coloring-matters, Manufacture of black. J. Turner and H. Dean. No. 1,014,982; Jan. 16; Sp. p. 4229; Gaz. vol. 174; p. 712.
Coloring-matters, Manufacture of black. J. Turner and H. Dean. No. 1,014,983; Jan. 16; Sp. p. 4229; Gaz. vol. 174; p. 712.
Coloring-matters, Manufacture of black. J. Turner and H. Dean. No. 1,014,984; Jan. 16; Sp. p. 4230; Gaz. vol. 174; p. 712.
Coloring-matters, Manufacturing black sulfurized. O. Reinhardt and J. Hoerlin. No. 1,026,881; May 21; Sp. p. 3948; Gaz. vol. 178; p. 680.
Colorimeter. P. G. Nutting. No. 1,026,878; May 21; Sp. p. 3933; Gaz. vol. 178; p. 679.
Colter attachment for plows. J. M. Chapman. No. 1,023,412; Apr. 16; Sp. p. 3545; Gaz. vol. 177; p. 631.
Colter, Plow-. C. C. Chappel. No. 1,030,718; June 25; Sp. p. 6000; Gaz. vol. 179; p. 1023.
Colter, Swinging and rolling. W. Klug. No. 1,035,450; Aug. 13; Gaz. vol. 181; p. 386.
Column. C. C. Barrick. No. 1,023,119; Apr. 16; Sp. p. 2929; Gaz. vol. 177; p. 531.
Column cap and base shaping machine. C. W. Borg. No. 1,026,071; May 14; Sp. p. 2171; Gaz. vol. 178; p. 367.
Column for the drying of liquids, pasty materials, or solid matter. G. P. Guignard and H. L. A. M. Watrigant. No. 1,036,486; Aug. 20; Gaz. vol. 181; p. 778.
Column-mold. P. A. and L. P. Deslauriers. No. 1,039,498; Sept. 24; Gaz. vol. 182; p. 874.
Column-polishing machine. D. L. Calahan. No. 1,025,859; May 7; Sp. p. 1648; Gaz. vol. 178; p. 259.
Column-setting device. J. E. Conzelman. No. 1,031,049; July 2; Gaz. vol. 180; p. 71.
Column, Skeleton. M. E. Sanford. No. 1,024,910; Apr. 30; Sp. p. 6817; Gaz. vol. 177; p. 1199.
Columns and the like, Making shapes for. J. E. York. No. 1,037,099; Aug. 27; Gaz. vol. 181; p. 1017.
Columns, Assembling-table for conical stave porch-. W. R. Ripley. No. 1,024,147; Apr. 23; Sp. p. 5120; Gaz. vol. 177; p. 900.
Comb: *See* Absorbent comb; Currycomb; Dressing-comb; Electrically-heated comb; Expansion-comb; Hair-comb; Hand-comb.
Comb. A. Benson. No. 1,014,037; Jan. 9; Sp. p. 2128; Gaz. vol. 174; p. 355.
Comb. S. C. Stroup. No. 1,031,485; July 2; Gaz. vol. 180; p. 222.
Comb. A. M. Blunkall. No. 1,035,411; Aug. 13; Gaz. vol. 181; p. 373.
Comb. H. L. De Mond. No. 1,040,167; Oct. 1; Gaz. vol. 183; p. 166.
Comb and brush, Combined. C. Boccia. No. 1,017,501; Feb. 13; Sp. p. 2805; Gaz. vol. 175; p. 474.
Comb-cleaner. S. L. Guy. No. 1,020,899; Mar. 19; Sp. p. 4023; Gaz. vol. 176; p. 702.
Comb-cleaner. N. H. C. Pihl. No. 1,037,182; Aug. 27; Gaz. vol. 181; p. 1044.
Comb-cleaner. R. A. Harvey. No. 1,038,362; Sept. 10; Gaz. vol. 182; p. 429.
Comb-cleaning device. J. Bercha. No. 1,040,849; Oct. 8; Gaz. vol. 183; p. 429.
Comb-cleaning device. E. J. Rajala. No. 1,042,270; Oct. 22; Gaz. vol. 183; p. 977.
Comb embossing and cutting dies. J. E. Burghoff and J. B. Wilks. No. 1,029,488; June 11; Sp. p. 3077; Gaz. vol. 179; p. 516.
Comber, Heilmann. H. Jarry. No. 1,029,128; June 11; Sp. p. 2300; Gaz. vol. 179; p. 392.
Comber, Heilmann. H. Jarry. No. 1,029,129; June 11; Sp. p. 2303; Gaz. vol. 179; p. 393.
Combing-machine. A. Tomlinson. No. 1,025,934; May 7; Sp. p. 1846; Gaz. vol. 178; p. 284.
Combing-machine, Circular. J. Smith. No. 1,026,058; May 14; Sp. p. 2129; Gaz. vol. 178; p. 362.
Combing-machine evener and stop-motion, Combined. A. W. and W. A. Bell. No. 1,018,029; Feb. 20; Sp. p. 3992; Gaz. vol. 175; p. 691.
Combing machine, Hair-. H. Doller. No. 1,043,909; Nov. 12; Gaz. vol. 184; p. 334.
Combing-machine, Heilman. O. L. Owen. No. 1,019,273; Mar. 5; Sp. p. 582; Gaz. vol. 176; p. 93.
Combing-machine thread-brake, First-. J. Gerstberger. No. 1,040,185; Oct. 1; Gaz. vol. 183; p. 172.
Combination-chair. L. M. Peterson. No. 1,028,956; June 11; Sp. p. 1926; Gaz. vol. 179; p. 333.
Combination hoe and plow. W. B. Willis. No. 1,032,719; July 16; Gaz. vol. 180; p. 731.
Combination-jar. T. C. Wheaton. No. 1,019,106; Mar. 5; Sp. p. 216; Gaz. vol. 176; p. 34.
Combination-knife for cutting toothpicks. G. P. Stanley. No. 1,038,798; Sept. 17; Gaz. vol. 182; p. 618.
Combination-lock. J. O. Kingsland, Sr. No. 1,016,331; Feb. 6; Sp. p. 215; Gaz. vol. 175; p. 33.
Combination-lock. O. G. Dodge. No. 1,019,136; Mar. 5; Sp. p. 286; Gaz. vol. 176; p. 45.

Alphabetical list of inventions—Continued.

Combination-lock. J. Schechter. No. 1,022,268; Apr. 2; Sp. p. 1083; Gaz. vol. 177; p. 173.
Combination-lock. A. F. Staples. No. 1,035,757; Aug. 13; Gaz. vol. 181; p. 488.
Combination-lock. N. S. G. Besharov. No. 1,046,253; Dec. 3; Gaz. vol. 185; p. 158.
Combination-lock. W. N. Hanson. No. 1,048,529; Dec. 31; Gaz. vol. 185; p. 1080.
Combination or keyless lock. O. M. Farrand. No. 1,028,868; June 11; Sp. p. 1732; Gaz. vol. 179; p. 303.
Combination-tool. A. M. Ostby. No. 1,032,855; July 16; Gaz. vol. 180; p. 776.
Combustion, Appliance for smokeless. A. B. Reck. No. 1,029,083; June 11; Sp. p. 2210; Gaz. vol. 179; p. 377.
Combustion-engine. J. Day. No. 1,039,705; Oct. 1; Gaz. vol. 183; p. 11.
Combustion-engine, Two-cycle. L. V. Pence. No. 1,043,537; Nov. 5; Gaz. vol. 184; p. 176.
Combustion-engine, Two-stroke cycle. E. Schwarz. No. 1,028,615; June 4; Sp. p. 1199; Gaz. vol. 179; p. 183.
Combustion engines. Automatic starting device for internal-. J. Desmond. No. 1,033,882; July 30; Gaz. vol. 180; p. 1183.
Combustion of coal, &c., Compound and method of increasing. E. C. Larkin and J. F. Duncan. No. 1,017,677; Feb. 20; Sp. p. 3149; Gaz. vol. 175; p. 568.
Comforter-filling machine. J. R. Sheldon. No. 1,027,570; May 28; Sp. p. 5452; Gaz. vol. 178; p. 953.
Commode. T. E. Morgan. No. 1,013,802; Jan. 2; Sp. p. 1560; Gaz. vol. 174; p. 248.
Commode. J. W. Hull, Sr. No. 1,019,154; Mar. 5; Sp. p. 328; Gaz. vol. 176; p. 51.
Commode. C. H. Barrett. No. 1,025,114; May 7; Sp. p. 1; Gaz. vol. 178; p. 3.
Commutator. M. Pfatischer. No. 1,014,253; Jan. 9; Sp. p. 2594; Gaz. vol. 174; p. 433.
Commutator. W. G. Viall. No. 1,018,141; Feb. 20; Sp. p. 4252; Gaz. vol. 175; p. 730.
Commutator. V. G. Apple. No. 1,032,802; July 16; Gaz. vol. 180; p. 758.
Commutator. C. Zenk. No. 1,046,928; Dec. 10; Gaz. vol. 185; p. 432.
Commutator construction for dynamo-electric machines. T. S. Allen. No. 1,017,945; Feb. 20; Sp. p. 3811; Gaz. vol. 175; p. 661.
Commutator for electrical machines. S. von Ammon. No. 1,018,544; Feb. 27; Sp. p. 5172; Gaz. vol. 175; p. 900.
Commutator-machines, Means for regulating polyphase. J. L. La Cour. No. 1,047,955; Dec. 24; Gaz. vol. 185; p. 849.
Commutator-slotting tool. A. W. Burke. No. 1,048,939; Dec. 31; Gaz. vol. 185; p. 1223.
Commutators, Making and mounting. F. P. Huyck. No. 1,045,147; Nov. 26; Gaz. vol. 184; p. 821.
Compass. A. D. Owen. No. 1,017,995; Feb. 20; Sp. p. 3927; Gaz. vol. 175; p. 679.
Compass. E. N. Kraemer. No. 1,035,973; Aug. 20; Gaz. vol. 181; p. 598.
Compass, Beam-. F. Machava. No. 1,031,354; July 2; Gaz. vol. 180; p. 178.
Compass, Boat-. F. G. Stephenson. No. 1,043,478; Nov. 5; Gaz. vol. 184; p. 155.
Compass-legs, Means for adjusting. L. Zweng. No. 1,042,866; Oct. 29; Gaz. vol. 183; p. 1213.
Compass, Marine. H. Hertzberg. No. 1,022,676; Apr. 9; Sp. p. 1957; Gaz. vol. 177; p. 340.
Compass, Marine. H. Hertzberg. No. 1,022,784; Apr. 9; Sp. p. 2216; Gaz. vol. 177; p. 379.
Compass, Marine. H. Hertzberg. No. 1,022,785; Apr. 9; Sp. p. 2218; Gaz. vol. 177; p. 380.
Compass, Mariner's liquid. L. A. Sherman. No. 1,024,810; Apr. 30; Sp. p. 6616; Gaz. vol. 177; p. 1164.
Compasses and pencil-case, Combined drawing-. V. Lampel. No. 1,028,228; June 4; Sp. p. 373; Gaz. vol. 179; p. 52.
Compasses, Drawing-. L. Myers. No. 1,047,275; Dec. 17; Gaz. vol. 185; p. 583.
Compasses for lettering, Spacing-. E. H. and E. L. Stover. No. 1,033,634; July 23; Gaz. vol. 180; p. 1075.
Compensator. A. Johnson. No. 1,016,155; Jan. 30; Sp. p. 6708; Gaz. vol. 174; p. 1166.
Composing and type-casting machine, Line-. B. Cade and A. Heldrich. No. 1,035,416; Aug. 13; Gaz. vol. 181; p. 374.
Composing device. G. R. Cornwall. No. 1,013,477; Jan. 2; Sp. p. 844; Gaz. vol. 174; p. 135.
Composing-machine. C. G. Pritchard. No. 1,029,317; June 11; Sp. p. 2705; Gaz. vol. 179; p. 458.
Composing machine, Type-. W. J. Poole. No. 1,032,564; July 16; Gaz. vol. 180; p. 675.
Composing-machine, Typograph. E. Uhthoff. No. 1,017,929; Feb. 20; Sp. p. 3781; Gaz. vol. 175; p. 657.
Composing-machine, Typographical. C. Muehleisen. No. 1,031,952; July 9; Gaz. vol. 180; p. 425.
Composing-machine, Typographical. W. Rödiger and C. Muehleisen. No. 1,041,676; Oct. 15; Gaz. vol. 183; p. 740.
Composing-machines, Line-measuring and automatic justifying mechanism for. R. C. Elliott. No. 1,024,503; Apr. 30; Sp. p. 5912; Gaz. vol. 177; p. 1056.
Composing-stick. F. J. Perrin. No. 1,023,958; Apr. 23; Sp. p. 4701; Gaz. vol. 177; p. 834.
Composing-stick. H. C. Gammeter. No. 1,049,074; Dec. 31; Gaz. vol. 185; p. 1269.
Composite structures, Reinforcing means for. J. F. Havemeyer. No. 1,023,149; Apr. 16; Sp. p. 3017; Gaz. vol. 177; p. 542.
Composite system. O. T. Lademan. No. 1,038,605; Sept. 17; Gaz. vol. 182; p. 550.
Composition containing vulcanized oil and manufacture. E. Taylor. No. 1,025,217; May 7; Sp. p. 237; Gaz. vol. 178; p. 40.
Composition, Cryolite-rutile. E. Kraus. No. 1,045,985; Dec. 3; Gaz. vol. 185; p. 64.
Composition of matter. N. F. Avery. No. 1,015,468; Jan. 23; Sp. p. 5264; Gaz. vol. 174; p. 902.
Composition of matter. J. F. Newman. No. 1,019,989; Mar. 12; Sp. p. 2098; Gaz. vol. 176; p. 362.
Composition of matter. C. O. Stinebaugh. No. 1,020,325; Mar. 12; Sp. p. 2787; Gaz. vol. 176; p. 472.
Composition of matter. A. H. Henderson. No. 1,020,497; Mar. 19; Sp. p. 3154; Gaz. vol. 176; p. 567.
Composition of matter. L. Gross. No. 1,023,642; Apr. 16; Sp. p. 4010; Gaz. vol. 177; p. 704.
Composition of matter. T. Sattile. No. 1,024,156; Apr. 23; Sp. p. 5135; Gaz. vol. 177; p. 903.
Composition of matter. J. J. Davoren. No. 1,024,561; Apr. 30; Sp. p. 6080; Gaz. vol. 177; p. 1076.
Composition of matter. J. R. C. Marsh. No. 1,027,620; May 28; Sp. p. 5534; Gaz. vol. 178; p. 968.
Composition of matter. J. R. C. Marsh. No. 1,028,046; May 28; Sp. p. 6490; Gaz. vol. 178; p. 1110.
Composition of matter. J. R. C. Marsh. No. 1,028,047; May 28; Sp. p. 6490; Gaz. vol. 178; p. 1110.
Composition of matter. R. M. Cobban. No. 1,034,979; Aug. 6; Gaz. vol. 181; p. 194.
Composition of matter. S. C. Peters. No. 1,035,729; Aug. 13; Gaz. vol. 181; p. 479.
Composition of matter. E. Armstrong. No. 1,041,229; Oct. 15; Gaz. vol. 183; p. 592.
Composition of matter and manufacturing the same. S. M. Lillie. No. 1,014,237; Jan. 9; Sp. p. 2557; Gaz. vol. 174; p. 426.
Composition of matter, Radio-active. V. C. J. Nightingall. No. 1,017,581; Feb. 13; Sp. p. 2952; Gaz. vol. 175; p. 499.
Composition of matter to be used as coating, size, or paste. M. Mayer, J. N. Wiggin, and R. W. Cornelison. No. 1,049,251; Dec. 31; Gaz. vol. 185; p. 1329.
Compound. A. M. Bailey. No. 1,029,165; June 11; Sp. p. 2381; Gaz. vol. 179; p. 406.
Compound containing active oxygen and making same. G. F. Jaubert. No. 1,039,408; Sept. 24; Gaz. vol. 182; p. 843.
Compound engine. C. J. Mellin. No. 1,025,638; May 7; Sp. p. 1196; Gaz. vol. 178; p. 184.
Compound engine. R. Jung. No. 1,044,392; Nov. 12; Gaz. vol. 184; p. 500.
Compound or composition of matter and producing same. A. J. Rossi and W. F. Meredith. No. 1,039,672; Sept. 24; Gaz. vol. 182; p. 935.
Compress. S. J. Webb. No. 1,025,849; May 7; Sp. p. 1614; Gaz. vol. 178; p. 256.
Compressed-air engine. D. R. Murphy. No. 1,024,740; Apr. 30; Sp. p. 6459; Gaz. vol. 177; p. 1139.
Compressed-air engine. C. B. Hodges. No. 1,024,778; Apr. 30; Sp. p. 6548; Gaz. vol. 177; p. 1153.
Compressed-air machine. J. G. Saurenmann. No. 1,023,041; Apr. 9; Sp. p. 2736; Gaz. vol. 177; p. 467.
Compressing-machine. F. A. Cooper. No. 1,015,784; Jan. 30; Sp. p. 5931; Gaz. vol. 174; p. 1038.
Compressing-machine. T. Lund. No. 1,030,739; June 25; Sp. p. 6045; Gaz. vol. 179; p. 1030.
Compressor. J. B. Vernon and G. De Camp. No. 1,018,221; Feb. 20; Sp. p. 4410; Gaz. vol. 175; p. 758.
Compressor. J. B. Bender. No. 1,019,749; Mar. 12; Sp. p. 1609; Gaz. vol. 176; p. 281.
Compressor. J. C. Kitton. No. 1,039,757; Oct. 1; Gaz. vol. 183; p. 30.
Compressor and pump, Centrifugal. R. H. Rice. No. 1,013,312; Jan. 2; Sp. p. 500; Gaz. vol. 174; p. 79.
Compressor and pump, Centrifugal. R. H. Rice and S. A. Moss. No. 1,041,511; Oct. 15; Gaz. vol. 183; p. 685.
Compressor, Centrifugal. S. A. Moss. No. 1,041,505; Oct. 15; Gaz. vol. 183; p. 684.
Compressor, Rotary. A. Huguenin. No. 1,036,627; Aug. 27; Gaz. vol. 181; p. 859.
Compressor, Variable-capacity. B. V. Nordberg. No. 1,047,977; Dec. 24; Gaz. vol. 185; p. 855.
Compressors, Means for regulating centrifugal. R. Troger. No. 1,041,529; Oct. 15; Gaz. vol. 183; p. 692.
Computer and register, Mathematical. E. Attaway. No. 1,016,245; Feb. 6; Sp. p. 1; Gaz. vol. 175; p. 3.
Computing device. H. Daemen-Schmid. No. 1,036,575; Aug. 27; Gaz. vol. 181; p. 843.
Computing device. H. A. Thomas. No. 1,040,592; Oct. 8; Gaz. vol. 183; p. 343.
Computing device, Automatic. M. W. Miracle. No. 1,033,439; July 23; Gaz. vol. 180; p. 1010.

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Computing-machine. G. O. Degener. No. 1,013,378; Jan. 2; Sp. p. 638; Gaz. vol. 174; p. 101.
Computing-machine. J. Oss. No. 1,022,590; Apr. 9; Sp. p. 1761; Gaz. vol. 177; p. 310.
Computing-machine. J. T. Hurley. No. 1,027,847; May 28; Sp. p. 6027; Gaz. vol. 178; p. 1044.
Computing-machine. W. S. Johns. No. 1,031,852; July 9; Gaz. vol. 180; p. 391.
Computing-machine. A. O. Davison. No. 1,033,787; July 30; Gaz. vol. 180; p. 1149.
Computing-machine. T. I. Potter. No. 1,035,047; Aug. 6; Gaz. vol. 181; p. 215.
Computing-machine. F. L. Manny. No. 1,038,774; Sept. 17; Gaz. vol. 182; p. 610.
Computing-machine. W. S. Johns. No. 1,048,973; Dec. 31; Gaz. vol. 185; p. 1234.
Computing-table. J. Knause. No. 1,037,640; Sept. 3; Gaz. vol. 182; p. 156.
Concave. P. W. Larson. No. 1,034,469; Aug. 6; Gaz. vol. 181; p. 22.
Concentrating and amalgamating apparatus, Hydraulic. W. F. M. McCarty. No. 1,047,673; Dec. 17; Gaz. vol. 185; p. 725.
Concentrating-table. W. L. Muender. No. 1,015,823; Jan. 30; Sp. p. 6009; Gaz. vol. 174; p. 1050.
Concentrating-table. G. A. Overstrom. No. 1,026,764; May 21; Sp. p. 3691; Gaz. vol. 178; p. 639.
Concentrating-table. E. and W. F. Deister. No. 1,040,164; Oct. 1; Gaz. vol. 183; p. 165.
Concentrating-table. E. and W. F. Deister. No. 1,040,165; Oct. 1; Gaz. vol. 183; p. 165.
Concentrating-table. F. H. Braeckel and F. J. Ehlerding. No. 1,047,161; Dec. 17; Gaz. vol. 185; p. 541.
Concentrator. R. B. Pate and F. B. Rose. No. 1,020,220; Mar. 12; Sp. p. 2591; Gaz. vol. 176; p. 440.
Concentrator. A. R. Wilfley. No. 1,021,961; Apr. 2; Sp. p. 451; Gaz. vol. 177; p. 72.
Concentrator. W. L. Hawley. No. 1,032,281; July 9; Gaz. vol. 180; p. 537.
Concentrator. I. F. Monell. No. 1,033,260; July 23; Gaz. vol. 180; p. 951.
Concentrator. A. R. Wilfley. No. 1,043,280; Nov. 5; Gaz. vol. 184; p. 83.
Concentrator. F. M. Atkinson. No. 1,049,035; Dec. 31; Gaz. vol. 185; p. 1256.
Concentrator, Belt. J. W. Pinder. No. 1,030,427; June 25; Sp. p. 5159; Gaz. vol. 179; p. 918.
Concentrator, Centrifugal. E. O. Mattern. No. 1,048,846; Dec. 31; Gaz. vol. 185; p. 1191.
Concentrator, Dry. C. W. Edgar. No. 1,016,680; Feb. 6; Sp. p. 1018; Gaz. vol. 175; p. 155.
Concentrator, Dry. J. Wagner. No, 1,045,478; Nov. 26; Gaz. vol. 184; p. 938.
Concentrator, Hydraulic. U. A. Garred. No. 1,031,113; July 2; Gaz. vol. 180; p. 94.
Concentrator, Pan-motion belt-. K. Senn. No. 1,044,697; Nov. 19; Gaz. vol. 184; p. 637.
Concentrator, Regulating-. B. Walter. No. 1,019,935; Mar. 12; Sp. p. 1991; Gaz. vol. 176; p. 344.
Concentrator, Slime-. W. E. Darrow. No. 1,035,165; Aug. 13; Gaz. vol. 181; p. 285.
Concentrator, Slime-. W. F. Deister. No. 1,037,212; Sept. 3; Gaz. vol. 182; p. 12.
Concentrator-tables and applying the same, Protective covering for. E. A. Baylis. No. 1,037,579; Sept. 3; Gaz. vol. 182; p. 136.
Concertina-action. E. Glass. No. 1,024,771; Apr. 30; Sp. p. 6532; Gaz. vol. 177; p. 1150.
Concrete and cement curbs and gutters, Machine for forming and finishing. T. Rauschenbach. No. 1,018,780; Feb. 27; Sp. p. 5673; Gaz. vol. 175; p. 980.
Concrete and cement mixer. N. Johnson. No. 1,048,317; Dec. 24; Gaz. vol. 185; p. 969.
Concrete and other plastic material, Machine for moving and depositing. W. G. Wilson. No. 1,048,019; Dec. 24; Gaz. vol. 185; p. 869.
Concrete and the like mixing machine. C. E. Bathrick. No. 1,013,109; Jan. 2; Sp. p. 27; Gaz. vol. 174; p. 7.
Concrete-arch reinforcement. C. A. P. Turner. No. 1,034,538; Aug. 6; Gaz. vol. 181; p. 46.
Concrete, artificial stone, or clay or similar plastic material, Production of hollow or solid bodies of. H. Wewerka. No. 1,044,959; Nov. 19; Gaz. vol. 184; p. 727.
Concrete beams, Apparatus for molding. E. Bianchi. No. 1,029,043; June 11; Sp. p. 2122; Gaz. vol. 179; p. 365.
Concrete beams, Carriage for transporting and laying. R. A. Reynolds and A. C. Raymond. No. 1,029,224; June 11; Sp. p. 2501; Gaz. vol. 179; p. 425.
Concrete binder and preservative. N. B. Arnold. No. 1,047,481; Dec. 17; Gaz. vol. 185; p. 656.
Concrete block and wall. L. G. Lease. No. 1,013,407; Jan. 2; Sp. p. 698; Gaz. vol. 174; p. 111.
Concrete-block machine. C. E. De Forrest. No. 1,013,536; Jan. 2; Sp. p. 977; Gaz. vol. 174; p. 156.
Concrete-block machine. M. Wohl. No. 1,034,854; Aug. 6; Gaz. vol. 181; p. 153.
Concrete-block machine. C. P. Flowers. No. 1,048,515; Dec. 31; Gaz. vol. 185; p. 1076.
Concrete-block-molding machine. S. Allen and F. L. Bailey. No. 1,023,778; Apr. 16; Sp. p. 4236; Gaz. vol. 177; p. 744.
Concrete-block-molding machine. J. W. Bragstäd. No. 1,041,731; Oct. 22; Gaz. vol. 183; p. 794.
Concrete building. C. A. P. Turner. No. 1,025,036; Apr. 30; Sp. p. 7066; Gaz. vol. 177; p. 1242.
Concrete-building apparatus. R. W. Fuller. No. 1,028,013; May 28; Sp. p. 6409; Gaz. vol. 178; p. 1099.
Concrete-building form and mold. C. H. Witthoefft. No. 1,013,632; Jan. 2; Sp. p. 1176; Gaz. vol. 174; p. 187.
Concrete building, Knockdown. W. C. Broughton. No. 1,048,938; Dec. 31; Gaz. vol. 185; p. 1222.
Concrete-building mold. J. Stretch. No. 1,038,986; Sept. 17; Gaz. vol. 182; p. 681.
Concrete buildings, Constructing. A. R. Baltzer. No. 1,035,826; Aug. 13; Gaz. vol. 181; p. 512.
Concrete buildings, Method and apparatus for constructing. R. H. Aiken. No. 1,023,349; Apr. 16; Sp. p. 3419; Gaz. vol. 177; p. 610.
Concrete buildings, Method and apparatus for constructing. A. R. Baltzer. No. 1,035,766; Aug. 13; Gaz. vol. 181; p. 491.
Concrete-burial-case mold. F. S. Clark. No. 1,036,566; Aug. 27; Gaz. vol. 181; p. 839.
Concrete burial-vault, Reinforced-. W. B. Bussard. No. 1,018,872; Feb. 27; Sp. p. 5857; Gaz. vol. 175; p. 1011.
Concrete caisson, Reinforced-. C. Meriwether. No. 1,048,993; Dec. 31; Gaz. vol. 185; p. 1241.
Concrete casings, Form and reinforcement for. F. A. Koetitz. No. 1,042,802; Oct. 29; Gaz. vol. 183; p. 1190.
Concrete-chimney mold. C. H. Witthoefft. No. 1,020,005; Mar. 12; Sp. p. 2131; Gaz. vol. 176; p. 367.
Concrete cisterns, Former or mold for forming. G. A. Wagner. No. 1,029,646; June 18; Sp. p. 3408; Gaz. vol. 179; p. 607.
Concrete columns, Mold for making hollow. C. H. Witthoefft. No. 1,013,251; Jan. 2; Sp. p. 355; Gaz. vol. 174; p. 56.
Concrete, Composition for waterproofing. W. C. Bladen. No. 1,021,569; Mar. 26; Sp. p. 5468; Gaz. vol. 176; p. 983.
Concrete, Composition for waterproofing. A. C. Horn. No. 1,048,695; Dec. 31; Gaz. vol. 185; p. 1140.
Concrete construction. T. Fellows. No. 1,013,480; Jan. 2; Sp. p. 851; Gaz. vol. 174; p. 136.
Concrete construction. J. E. Conzelman. No. 1,031,043; July 2; Gaz. vol. 180; p. 68.
Concrete construction. J. E. Conzelman. No. 1,031,044; July 2; Gaz. vol. 180; p. 69.
Concrete construction. J. E. Conzelman. No. 1,031,046; July 2; Gaz. vol. 180; p. 70.
Concrete construction. J. E. Conzelman. No. 1,031,047; July 2; Gaz. vol. 180; p. 70.
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Concrete construction. A. J. Meier. No. 1,031,079; July 2; Gaz. vol. 180; p. 82.
Concrete construction. C. W. Beverstock. No. 1,037,416; Sept. 3; Gaz. vol. 182; p. 80.
Concrete construction. J. E. Conzelman. No. 1,045,520; Nov. 26; Gaz. vol. 184; p. 953.
Concrete construction. J. E. Conzelman. No. 1,045,774; Nov. 26; Gaz. vol. 184; p. 1042.
Concrete construction, Anchor for. F. Chatfield. No. 1,022,826; Apr. 9; Sp. p. 2302; Gaz. vol. 177; p. 394.
Concrete-construction clip. J. H. Straus, Jr. No. 1,018,018; Feb. 20; Sp. p. 3965; Gaz. vol. 175; p. 687.
Concrete construction for hydraulic flumes, Reinforced. W. P. Brereton. No. 1,030,839; June 25; Sp. p. 6412; Gaz. vol. 179; p. 1068.
Concrete-construction form. J. Elsmere. No. 1,016,485; Feb. 6; Sp. p. 567; Gaz. vol. 175; p. 87.
Concrete construction, Form work for. R. Anderson. No. 1,014,738; Jan. 16; Sp. p. 3670; Gaz. vol. 174; p. 627.
Concrete construction, Means and apparatus for. W. C. Edwards, Jr. No. 1,013,591; Jan. 2; Sp. p. 1077; Gaz. vol. 174; p. 174.
Concrete-construction mold. A. F. Leiter. No. 1,047,254; Dec. 17; Gaz. vol. 185; p. 574.
Concrete construction, Reinforced. C. A. P. Turner. No. 1,032,571; July 16; Gaz. vol. 180; p. 677.
Concrete construction, Reinforced. J. Wunder. No. 1,036,049; Aug. 20; Gaz. vol. 181; p. 625.
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Concrete construction, Sectional mold for. M. D. Morrill. No. 1,014,630; Jan. 9; Sp. p. 3398; Gaz. vol. 174; p. 559.
Concrete-construction tension member. E. N. Pagelsen. No. 1,032,856; July 16; Gaz. vol. 180; p. 776.
Concrete construction, Wire clip for. J. H. Straus, Jr. No. 1,025,330; May 7; Sp. p. 496; Gaz. vol. 178; p. 77.
Concrete constructions, Form-holder for. J. R. Johnson. No. 1,048,838; Dec. 31; Gaz. vol. 185; p. 1188.
Concrete-container, Metal. I. A. Braddock. No. 1,016,912; Feb. 6; Sp. p. 1500; Gaz. vol. 175; p. 232.
Concrete courses, Apparatus for laying. E. L. Ransome. No. 1,042,822; Oct. 29; Gaz. vol. 183; p. 1197.

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Concrete-culvert core. J. W. Kempf. No. 1,044,394; Nov. 12; Gaz. vol. 184; p. 501.
Concrete culverts, Collapsible form for. W. Burgner. No. 1,027,176; May 21; Sp. p. 4639; Gaz. vol. 178; p. 779.
Concrete culverts, Core for making. J. W. Kempf. No. 1,023,429; Apr. 16; Sp. p. 3576; Gaz. vol. 177; p. 636.
Concrete curbs for graves, Mold for. J. Muckey. No. 1,024,646; Apr. 30; Sp. p. 6277; Gaz. vol. 177; p. 1106.
Concrete dam. G. W. Freeman. No. 1,043,761; Nov. 5; Gaz. vol. 184; p. 251.
Concrete dam, Reinforced-. H. L. Coburn. No. 1,033,988; July 30; Gaz. vol. 180; p. 1221.
Concrete, Deformed reinforcing-bar for. W. A. Collins. No. 1,016,984; Feb. 13; Sp. p. 1686; Gaz. vol. 175; p. 294.
Concrete-delivery apparatus. T. Emtman. No. 1,031,778; July 9; Gaz. vol. 180; p. 365.
Concrete fence-post. J. A. Griffin. No. 1,020,412; Mar. 19; Sp. p. 2975; Gaz. vol. 176; p. 539.
Concrete fence-post. R. H. Forsyth. No. 1,021,140; Mar. 26; Sp. p. 4526; Gaz. vol. 176; p. 834.
Concrete floor construction. W. H. Burk. No. 1,039,895; Oct. 1; Gaz. vol. 183; p. 76.
Concrete-floor decking. R. B. Higgins and H. Albers. No. 1,034,913; Aug. 6; Gaz. vol. 181; p. 171.
Concrete-floor hanger-support. E. E. Hall. No. 1,018,490; Feb. 27; Sp. p. 5008; Gaz. vol. 175; p. 881.
Concrete floor, Reinforced-. J. S. Nolan. No. 1,033,826; July 30; Gaz. vol. 180; p. 1163.
Concrete floors, floor-beams, girders, &c., Reinforcement for. W. C. Edwards, Jr. No. 1,045,006; Nov. 19; Gaz. vol. 184; p. 744.
Concrete floors, Tile construction for. J. S. Nolan. No. 1,025,536; May 7; Sp. p. 966; Gaz. vol. 178; p. 149.
Concrete floors, Tile structure for reinforced-. J. S. Nolan. No. 1,021,552; Mar. 26; Sp. p. 5430; Gaz. vol. 176; p. 977.
Concrete flume. S. L. Stovall. No. 1,036,162; Aug. 20; Gaz. vol. 181; p. 666.
Concrete for building structures, Reinforced. T. H. Skinner. No. 1,046,118; Dec. 3; Gaz. vol. 185; p. 110.
Concrete-form. J. V. Westerlund. No. 1,040,075; Oct. 1; Gaz. vol. 183; p. 135.
Concrete-form. C. H. Haga. No. 1,042,910; Oct. 29; Gaz. vol. 183; p. 1227.
Concrete-form clamp. A. H. Symons. No. 1,020,164; Mar. 12; Sp. p. 2467; Gaz. vol. 176; p. 420.
Concrete-form clamp. A. H. Symons and G. E. Conklin. No. 1,036,025; Aug. 20; Gaz. vol. 181; p. 616.
Concrete-form, Collapsible. W. C. Simpson. No. 1,028,294; June 4; Sp. p. 505; Gaz. vol. 179; p. 74.
Concrete form or mold. J. K. Goin. No. 1,016,140; Jan. 30; Sp. p. 6684; Gaz. vol. 174; p. 1161.
Concrete-handling apparatus. R. Welcker. No. 1,038,806; Sept. 17; Gaz. vol. 182; p. 620.
Concrete in forms, Device for placing. L. C. Brink. No. 1,036,068; Aug. 20; Gaz. vol. 181; p. 632.
Concrete in molds, Device for packing. H. G. Rounds. No. 1,047,301; Dec. 17; Gaz. vol. 185; p. 593.
Concrete ingredients, &c., Apparatus for mixing. J. W. Twinberrow. No. 1,033,218; July 23; Gaz. vol. 180; p. 937.
Concrete insert. W. W. Bright. No. 1,035,525; Aug. 13; Gaz. vol. 181; p. 411.
Concrete insert. J. Kennedy. No. 1,045,562; Nov. 26; Gaz. vol. 184; p. 968.
Concrete lamp-post. L. G. Haase. No. 1,026,801; May 21; Sp. p. 3766; Gaz. vol. 178; p. 652.
Concrete-machines, Feed-regulator for. P. Butler. No. 1,046,437; Dec. 10; Gaz. vol. 185; p. 260.
Concrete-making and aggregate-handling device. H. G. Butler. No. 1,037,861; Sept. 10; Gaz. vol. 182; p. 261.
Concrete-mixer. W. L. Keller. No. 1,015,687; Jan. 23; Sp. p. 5741; Gaz. vol. 174; p. 978.
Concrete-mixer. C. E. Roberts. No. 1,015,981; Jan. 30; Sp. p. 6352; Gaz. vol. 174; p. 1105.
Concrete-mixer. A. D. Hadsel. No. 1,016,920; Feb. 6; Sp. p. 1517; Gaz. vol. 175; p. 235.
Concrete-mixer. T. Rauschenbach. No. 1,018,779; Feb. 27; Sp. p. 5672; Gaz. vol. 175; p. 980.
Concrete-mixer. A. W. Ransome. No. 1,019,917; Mar. 12; Sp. p. 1956; Gaz. vol. 176; p. 339.
Concrete-mixer. W. M. Goss. No. 1,020,279; Mar. 12; Sp. p. 2708; Gaz. vol. 176; p. 459.
Concrete-mixer. M. E. Crandall. No. 1,023,724; Apr. 16; Sp. p. 4145; Gaz. vol. 177; p. 728.
Concrete-mixer. C. W. Levalley. No. 1,027,055; May 21; Sp. p. 4368; Gaz. vol. 178; p. 741.
Concrete-mixer. C. M. Whitney and E. C. Van Leuven. No. 1,038,698; Sept. 17; Gaz. vol. 182; p. 582.
Concrete-mixer. E. F. Bolte. No. 1,041,005; Oct. 15; Gaz. vol. 183; p. 516.
Concrete-mixer. E. W. Seamans. No. 1,043,151; Nov. 5; Gaz. vol. 184; p. 37.
Concrete-mixer. J. R. Boardman. No. 1,043,391; Nov. 5; Gaz. vol. 184; p. 123.
Concrete-mixer. E. F. Bolte. No. 1,045,117; Nov. 26; Gaz. vol. 184; p. 811.
Concrete-mixer. M. F. Sanborn. No. 1,048,738; Dec. 31; Gaz. vol. 185; p. 1152.
Concrete-mixer. W. A. Wheeler. No. 1,049,018; Dec. 31; Gaz. vol. 185; p. 1250.
Concrete-mixer, Continuous. A. S. Olney. No. 1,044,807; Nov. 19; Gaz. vol. 184; p. 676.
Concrete-mixers, Feed-regulator for gravity. G. W. Mills and J. E. Simpson. No. 1,047,680; Dec. 17; Gaz. vol. 185; p. 728.
Concrete-mixing apparatus. C. W. Levalley. No. 1,026,958; May 21; Sp. p. 4150; Gaz. vol. 178; p. 708.
Concrete-mixing machine. H. M. Whitcomb. No. 1,017,720; Feb. 20; Sp. p. 3244; Gaz. vol. 175; p. 582.
Concrete-mixing machine. C. O. Hoglund. No. 1,019,737; Mar. 5; Sp. p. 1577; Gaz. vol. 176; p. 246.
Concrete-mixing machine. D. B. Hoover. No. 1,029,126; June 11; Sp. p. 2293; Gaz. vol. 179; p. 391.
Concrete-mixing machines, Feeding apparatus for. J. L. Wettlaufer. No. 1,030,361; June 25; Sp. p. 5019; Gaz. vol. 179; p. 895.
Concrete-mixing machines, Stroking attachment for. F. W. Swautusch. No. 1,022,607; Apr. 9; Sp. p. 1812; Gaz. vol. 177; p. 317.
Concrete-mold. H. O. Meek. No. 1,016,285; Feb. 6; Sp. p. 111; Gaz. vol. 175; p. 17.
Concrete-mold. C. H. F. Dyhrkopp. No. 1,036,468; Aug. 20; Gaz. vol. 181; p. 772.
Concrete-mold. W. H. Alexander. No. 1,047,605; Dec. 17; Gaz. vol. 185; p. 700.
Concrete-molding machine. F. F. Landis. No. 1,017,876; Feb. 20; Sp. p. 3645; Gaz. vol. 175; p. 636.
Concrete monument. M. J. Stobbe and P. J. Conley. No. 1,035,260; Aug. 13; Gaz. vol. 181; p. 318.
Concrete outer coffin. B. R. Ruckstool. No. 1,036,151; Aug. 20; Gaz. vol. 181; p. 662.
Concrete piers, walls, and the like, Apparatus for constructing. S. L. Shaffer. No. 1,021,806; Apr. 2; Sp. p. 105; Gaz. vol. 177; p. 21.
Concrete pile, column, or pole, Reinforced-. R. A. Cummings. No. 1,041,034; Oct. 15; Gaz. vol. 183; p. 525.
Concrete pile, Corrugated. R. A. Cummings. No. 1,041,035; Oct. 15; Gaz. vol. 183; p. 526.
Concrete-pile-making machine. H. A. Riemann. No. 1,030,267; June 18; Sp. p. 4788; Gaz. vol. 179; p. 822.
Concrete-pile point. A. Mast. No. 1,018,979; Feb. 27; Sp. p. 6095; Gaz. vol. 175; p. 1048.
Concrete piles, Cushion-head for. A. R. Eichler. No. 1,039,369; Sept. 24; Gaz. vol. 182; p. 829.
Concrete piles, Method and apparatus for forming. F. Henderson and T. L. Essick. No. 1,047,632; Dec. 17; Gaz. vol. 185; p. 709.
Concrete piling. E. Bignell. No. 1,026,144; May 14; Sp. p. 2326; Gaz. vol. 178; p. 393.
Concrete piling and piling units. M. M. Upson. No. 1,025,434; May 7; Sp. p. 711; Gaz. vol. 178; p. 113.
Concrete piling, Reinforced-. W. Mueser. No. 1,034,277; July 30; Gaz. vol. 180; p. 1322.
Concrete pipe. E. S. Wortham. No. 1,014,735; Jan. 16; Sp. p. 3667; Gaz. vol. 174; p. 626.
Concrete pipe and tile, Making. W. A. and B. O. Reynolds. No. 1,019,918; Mar. 12; Sp. p. 1959; Gaz. vol. 176; p. 339.
Concrete pipe, Reinforced-. V. V. Messer. No. 1,013,302; Jan. 2; Sp. p. 479; Gaz. vol. 174; p. 75.
Concrete pipe with waterproof lining therein, Apparatus for producing. G. E. Salsbury. No. 1,023,336; Apr. 16; Sp. p. 3398; Gaz. vol. 177; p. 606.
Concrete plank and sea-wall casing, Reinforced-. J. J. Miller. No. 1,048,567; Dec. 31; Gaz. vol. 185; p. 1092.
Concrete-pouring system. R. F. Taylor. No. 1,039,213; Sept. 24; Gaz. vol. 182; p. 774.
Concrete, Producing. H. J. Harms and G. E. Small. No. 1,038,125; Sept. 10; Gaz. vol. 182; p. 350.
Concrete railway cross-tie. W. W. Frisholm. No. 1,020,973; Mar. 26; Sp. p. 4189; Gaz. vol. 176; p. 779.
Concrete railway-sleeper, Reinforced-. H. Hintermann. No. 1,046,389; Dec. 3; Gaz. vol. 185; p. 206.
Concrete railway-tie. A. Stark. No. 1,021,433; Mar. 26; Sp. p. 5172; Gaz. vol. 176; p. 936.
Concrete railway-tie. A. Stark. No. 1,036,160; Aug. 20; Gaz. vol. 181; p. 665.
Concrete railway-tie. A. T. Scott. No. 1,038,212; Sept. 10; Gaz. vol. 182; p. 379.
Concrete railway-tie, Reinforced-. B. W. Pinney. No. 1,045,741; Nov. 26; Gaz. vol. 184; p. 1031.
Concrete railway-tie, Reinforced-. A. N. Fenstermacher and W. E. Wilson. No. 1,046,575; Dec. 10; Gaz. vol. 185; p. 310.
Concrete reinforce. W. H. Burk. No. 1,043,198; Nov. 5; Gaz. vol. 184; p. 54.
Concrete reinforce. A. P. Clark. No. 1,043,204; Nov. 5; Gaz. vol. 184; p. 56.
Concrete reinforce. A. E. Lindau. No. 1,043,782; Nov. 5; Gaz. vol. 184; p. 258.
Concrete-reinforce rods, Splice for. G. Allen. No. 1,035,816; Aug. 13; Gaz. vol. 181; p. 508.
Concrete, Reinforced. W. F. Scott. No. 1,021,429; Mar. 26; Sp. p. 5164; Gaz. vol. 176; p. 934.
Concrete reinforcement. E. D. Pitt. No. 1,037,523; Sept. 3; Gaz. vol. 182; p. 118.

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Concrete reinforcements, Support for. C. A. Koerner. No. 1,047,655; Dec. 17; Gaz. vol. 185; p. 718.
Concrete-reinforcing bar. D. Kerr. No. 1,022,850; Apr. 9; Sp. p. 2353; Gaz. vol. 177; p. 402.
Concrete reservoir. J. E. Conzelman. No. 1,031,050; July 2; Gaz. vol. 180; p. 72.
Concrete roadways, Expansion-joint for. A. Thomas. No. 1,017,346; Feb. 13; Sp. p. 2471; Gaz. vol. 175; p. 419.
Concrete roadways, Reinforcement for. A. Thomas. No. 1,017,118; Feb. 13; Sp. p. 1981; Gaz. vol. 175; p. 341.
Concrete roof-tile. F. Latulip. No. 1,030,590; June 25; Sp. p. 5630; Gaz. vol. 179; p. 976.
Concrete scow. J. T. Gorsuch. No. 1,018,488; Feb. 27; Sp. p. 5003; Gaz. vol. 175; p. 880.
Concrete sign, Individual. L. G. Haase. No. 1,028,018; May 28; Sp. p. 6417; Gaz. vol. 178; p. 1101.
Concrete skylight, vault, and floor light. L. W. Milford. No. 1,021,548; Mar. 26; Sp. p. 5420; Gaz. vol. 176; p. 976.
Concrete slab, Reinforced-. R. A. Cummings. No. 1,035,323; Aug. 13; Gaz. vol. 181; p. 341.
Concrete slabs, System of reinforcement for. J. E. Conzelman. No. 1,031,045; July 2; Gaz. vol. 180; p. 69.
Concrete-spreader. T. Ahlborn. No. 1,048,785; Dec. 31; Gaz. vol. 185; p. 1170.
Concrete staircases, Apparatus for molding. C. H. Witthoefft. No. 1,041,551; Oct. 15; Gaz. vol. 183; p. 699.
Concrete steps, Means for forming. J. R. Long. No. 1,021,368; Mar. 26; Sp. p. 4999; Gaz. vol. 176; p. 913.
Concrete structure. C. R. Hall. No. 1,020,645; Mar. 19; Sp. p. 3490; Gaz. vol. 176; p. 616.
Concrete structure, Reinforced. W. C. Edwards, Jr. No. 1,013,592; Jan. 2; Sp. p. 1081; Gaz. vol. 174; p. 174.
Concrete structure, Reinforced. M. Mingay. No. 1,016,760; Feb. 6; Sp. p. 1180; Gaz. vol. 175; p. 181.
Concrete structure, Reinforced. P. Holmberg. No. 1,024,852; Apr. 30; Sp. p. 6701; Gaz. vol. 177; p. 1180.
Concrete structure, Reinforced. F. D. Huntington. No. 1,045,292; Nov. 26; Gaz. vol. 184; p. 871.
Concrete-structure stiffener. W. J. Connell and A. F. Dickey. No. 1,024,312; Apr. 23; Sp. p. 5463; Gaz. vol. 177; p. 957.
Concrete structure, Transparent. F. L. Keppler. No. 1,035,360; Aug. 13; Gaz. vol. 181; p. 356.
Concrete structures, Anchor or bolt-insert for. L. P. Hazen. No. 1,037,142; Aug. 27; Gaz. vol. 181; p. 1031.
Concrete structures, Beam form and joist for. R. Anderson. No. 1,015,279; Jan. 23; Sp. p. 4825; Gaz. vol. 174; p. 837.
Concrete structures, Bonding means for reinforced. R. D. Weekley. No. 1,046,913; Dec. 10; Gaz. vol. 185; p. 427.
Concrete structures, Core for hollow. R. B. Hartman. No. 1,033,798; July 30; Gaz. vol. 180; p. 1153.
Concrete structures, Draw-bar for. C. C. Allen. No. 1,020,676; Mar. 19; Sp. p. 3555; Gaz. vol. 176; p. 626.
Concrete structures, Frame for reinforced. A. H. Tashjian. No. 1,013,698; Jan. 2; Sp. p. 1353; Gaz. vol. 174; p. 210.
Concrete structures, Metal reinforcement for. A. W. Herbert. No. 1,046,186; Dec. 3; Gaz. vol. 185; p. 133.
Concrete structures, Metal reinforcement for. D. Maxwell. No. 1,048,421; Dec. 24; Gaz. vol. 185; p. 1003.
Concrete structures, Reinforcement for. T. H. Skinner. No. 1,046,117; Dec. 3; Gaz. vol. 185; p. 109.
Concrete structures, Reinforcement system for. R. B. Hartman. No. 1,033,797; July 30; Gaz. vol. 180; p. 1152.
Concrete structures, Spacing device for reinforcing-rods in. W. H. Burk. No. 1,016,319; Feb. 6; Sp. p. 190; Gaz. vol. 175; p. 29.
Concrete-supplying apparatus. C. W. Eaton. No. 1,040,656; Oct. 8; Gaz. vol. 183; p. 368.
Concrete surfaces from damages by frost in tidal waters, Protecting. J. Kennedy. No. 1,047,237; Dec. 17; Gaz. vol. 185; p. 569.
Concrete surfaces, Structure for forming. J. A. Sheffey. No. 1,042,043; Oct. 22; Gaz. vol. 183; p. 903.
Concrete tie. A. H. Moffet. No. 1,014,085; Jan. 9; Sp. p. 2224; Gaz. vol. 174; p. 375.
Concrete tie, Hollow reinforced-. H. R. Leonard. No. 1,045,711; Nov. 26; Gaz. vol. 184; p. 1021.
Concrete ties, Making hollow reinforced-. H. R. Leonard. No. 1,039,552; Sept. 24; Gaz. vol. 182; p. 894.
Concrete wall construction. S. Higgins. No. 1,019,326; Mar. 5; Sp. p. 722; Gaz. vol. 176; p. 112.
Concrete wall construction. E. F. Wiederholdt. No. 1,041,389; Oct. 15; Gaz. vol. 183; p. 645.
Concrete wall construction. W. O. Seat. No. 1,046,029; Dec. 3; Gaz. vol. 185; p. 78.
Concrete-wall-construction mold. W. J. Whitehead. No. 1,043,745; Nov. 5; Gaz. vol. 184; p. 246.
Concrete wall construction, Mold-form for. A. P. Crary. No. 1,042,648; Oct. 29; Gaz. vol. 183; p. 1136.
Concrete wall construction, Mold-form for. A. P. Crary. No. 1,044,862; Nov. 19; Gaz. vol. 184; p. 694.
Concrete wall construction, Sectional mold for. M. D. Morrill. No. 1,032,419; July 16; Gaz. vol. 180; p. 627.
Concrete wall, Hollow. W. Lake. No. 1,020,919; Mar. 19; Sp. p. 4052; Gaz. vol. 176; p. 708.
Concrete-wall mold. A. Barone. No. 1,021,443; Mar. 26; Sp. p. 5196; Gaz. vol. 176; p. 940.
Concrete-wall mold, Hollow-. F. H. Packard. No. 1,030,480; June 25; Sp. p. 5286; Gaz. vol. 179; p. 938.
Concrete-wall-molding apparatus. T. H. Brown. No. 1,013,475; Jan. 2; Sp. p. 842; Gaz. vol. 174; p. 135.
Concrete walls, Constructing. I. Randolph. No. 1,047,987; Dec. 24; Gaz. vol. 185; p. 859.
Concrete walls, Core for constructing hollow. A. G. Drake. No. 1,045,824; Dec. 3; Gaz. vol. 185; p. 10.
Concrete walls, piers, &c., Apparatus to be used in constructing. J. W. Seaver and J. E. A. Moore. No. 1,018,634; Feb. 27; Sp. p. 5358; Gaz. vol. 175; p. 930.
Concreting piles. A. H. Davis. No. 1,025,112; Apr. 30; Sp. p. 7225; Gaz. vol. 177; p. 1266.
Condensates from casein phenols and formic aldehyde and the product obtained thereby, Preparing. L. Berend. No. 1,040,850; Oct. 8; Gaz. vol. 183; p. 430.
Condensation product and making same, Colored. G. Engl. No. 1,043,682; Nov. 5; Gaz. vol. 184; p. 225.
Condenser. W. F. Edwards. No. 1,017,519; Feb. 13; Sp. p. 2847; Gaz. vol. 175; p. 480.
Condenser. G. B. Petsche. No. 1,036,698; Aug. 27; Gaz. vol. 181; p. 883.
Condenser. H. E. Beyer. No. 1,041,954; Oct. 22; Gaz. vol. 183; p. 873.
Condenser. E. G. Helander. No. 1,048,532; Dec. 31; Gaz. vol. 185; p. 1081.
Condenser and cooler. C. W. Vollmann. No. 1,033,132; July 23; Gaz. vol. 180; p. 907.
Condenser and purifier, Steam. J. L. Zeigler. No. 1,020,675; Mar. 19; Sp. p. 3553; Gaz. vol. 176; p. 625.
Condenser arrangement. A. R. Bullock. No. 1,048,034; Dec. 24; Gaz. vol. 185; p. 874.
Condenser, Barometric. C. L. W. Trinks. No. 1,028,156; June 4; Sp. p. 174; Gaz. vol. 179; p. 26.
Condenser, Barometric. C. L. W. Trinks. No. 1,028,157; June 4; Sp. p. 177; Gaz. vol. 179; p. 26.
Condenser, Barometric. R. D. Tomlinson. No. 1,036,031; Aug. 20; Gaz. vol. 181; p. 618.
Condenser, Barometric steam-. W. H. Norris. No. 1,043,135; Nov. 5; Gaz. vol. 184; p. 30.
Condenser, Double-pipe. L. C. Schneider. No. 1,016,582; Feb. 6; Sp. p. 810; Gaz. vol. 175; p. 121.
Condenser, Electric-furnace. T. P. Sharts. No. 1,044,087; Nov. 12; Gaz. vol. 184; p. 396.
Condenser for smelter-furnace fumes. C. E. M. Tambacopolo. No. 1,023,600; Apr. 16; Sp. p. 3930; Gaz. vol. 177; p. 690.
Condenser, Jet-. O. H. Mueller. No. 1,015,822; Jan. 30; Sp. p. 6008; Gaz. vol. 174; p. 1050.
Condenser, Jet-. G. De Laval. No. 1,044,504; Nov. 19; Gaz. vol. 184; p. 568.
Condenser, Jet-. G. De Laval. No. 1,044,631; Nov. 19; Gaz. vol. 184; p. 613.
Condenser-lap machine. H. C. Perham. No. 1,034,827; Aug. 6; Gaz. vol. 181; p. 144.
Condenser-lap machine. H. C. Perham. No. 1,034,828; Aug. 6; Gaz. vol. 181; p. 144.
Condenser-lap machine. H. C. Perham. No. 1,034,829; Aug. 6; Gaz. vol. 181; p. 144.
Condenser-lap machine. J. K. Whittier. No. 1,034,849; Aug. 6; Gaz. vol. 181; p. 151.
Condenser-lap machine. J. K. Whittier. No. 1,034,850; Aug. 6; Gaz. vol. 181; p. 152.
Condenser or pump. A. Künzli. No. 1,013,499; Jan. 2; Sp. p. 897; Gaz. vol. 174; p. 143.
Condenser, Rotary variable. H. Gernsback. No. 1,033,095; July 23; Gaz. vol. 180; p. 894.
Condenser-scraper. H. P. Selick. No. 1,037,672; Sept. 3; Gaz. vol. 182; p. 167.
Condenser, Steam-. J. J. Graf. No. 1,018,489; Feb. 27; Sp. p. 5006; Gaz. vol. 175; p. 880.
Condenser, Steam-. F. Hauswirth. No. 1,021,775; Apr. 2; Sp. p. 39; Gaz. vol. 177; p. 10.
Condenser, Surface. W. Kieser. No. 1,020,702; Mar. 19; Sp. p. 3621; Gaz. vol. 176; p. 636.
Condenser system. H. Keller. No. 1,013,178; Jan. 2; Sp. p. 176; Gaz. vol. 174; p. 31.
Condensers and other metal structures, Means for preventing corrosion of surface. P. E. G. Cumberland. No. 1,020,480; Mar. 19; Sp. p. 3113; Gaz. vol. 176; p. 562.
Condensers, Regulating resistance for electrolytic. E. E. F. Creighton. No. 1,029,344; June 11; Sp. p. 2777; Gaz. vol. 179; p. 468.
Condensing apparatus. E. W. Strohn. No. 1,017,338; Feb. 13; Sp. p. 2453; Gaz. vol. 175; p. 417.
Condensing apparatus, Steam-. J. J. Brown. No. 1,014,368; Jan. 9; Sp. p. 2857; Gaz. vol. 174; p. 472.
Condiment-holder. G. B. Clemmer. No. 1,023,413; Apr. 16; Sp. p. 3546; Gaz. vol. 177; p. 631.
Condiment-holder. E. Fuchs. No. 1,033,688; July 23; Gaz. vol. 180; p. 1090.
Condiment-holder. J. Gottlieb. No. 1,039,729; Oct. 1; Gaz. vol. 183; p. 20.
Condiment-holder. C. Ritter. No. 1,046,494; Dec. 10; Gaz. vol. 185; p. 281.
Conducting material and producing the same. E. Bennett. No. 1,023,917; Apr. 23; Sp. p. 4613; Gaz. vol. 177; p. 821.

Alphabetical list of inventions—Continued.

Conductive materials, Purifying electrically-. C. C. Ruprecht. No. 1,016,097; Jan. 30; Sp. p. 6608; Gaz. vol. 174; p. 1148.
Conductor-coupling. W. Sparks. No. 1,034,159; July 30; Gaz. vol. 180; p. 1281.
Conductor-joint, Sheathed. T. E. Murray. No. 1,028,257; June 4; Sp. p. 427; Gaz. vol. 179; p. 62.
Conductor-terminals, Means for securing. G. W. Hart. No. 1,046,067; Dec. 3; Gaz. vol. 185; p. 92.
Conductors, Device for use in laying. I. Bowdle. No. 1,019,419; Mar. 5; Sp. p. 965; Gaz. vol. 176; p. 140.
Conductors, Making molded. C. Van Brunt. No. 1,017,483; Feb. 13; Sp. p. 2775; Gaz. vol. 175; p. 468.
Conductors, Protective covering for resistance-. J. T. H. Dempster. No. 1,028,444; June 4; Sp. p. 848; Gaz. vol. 179; p. 127.
Conduit. J. S. Wilson. No. 1,020,672; Mar. 19; Sp. p. 3549; Gaz. vol. 176; p. 624.
Conduit. W. G. Fargo. No. 1,021,041; Mar. 26; Sp. p. 4324; Gaz. vol. 176; p. 803.
Conduit. A. P. Hinsky. No. 1,022,943; Apr. 9; Sp. p. 2556; Gaz. vol. 177; p. 433.
Conduit. H. H. Balliett. No. 1,029,040; June 11; Sp. p. 2116; Gaz. vol. 179; p. 364.
Conduit. H. S. Hunt. No. 1,041,290; Oct. 15; Gaz. vol. 183; p. 614.
Conduit and like joint. L. Billé. No. 1,016,124; Jan. 30; Sp. p. 6653; Gaz. vol. 174; p. 1157.
Conduit, Automatic shut-off. I. Gillen. No. 1,034,009; July 30; Gaz. vol. 180; p. 1229.
Conduit-covers of electric railways, Apparatus for actuating. D. D. Samaia. No. 1,028,394; June 4; Sp. p. 723; Gaz. vol. 179; p. 109.
Conduit fish-wire machine. F. Crawford. No. 1,038,093; Sept. 10; Gaz. vol. 182; p. 340.
Conduit-fitting. M. Havens, Jr. No. 1,044,521; Nov. 19; Gaz. vol. 184; p. 575.
Conduit fitting, Electric-. C. H. Bissell and F. Smith. No. 1,034,572; Aug. 6; Gaz. vol. 181; p. 57.
Conduit-fitting for electrical and other purposes. A. Brampton and F. Osborne. No. 1,020,123; Mar. 12; Sp. p. 2379; Gaz. vol. 176; p. 407.
Conduit for high-potential conductors. S. D. Sprong and W. E. McCoy. No. 1,043,164; Nov. 5; Gaz. vol. 184; p. 43.
Conduit for high-potential conductors. S. D. Sprong and W. E. McCoy. No. 1,043,165; Nov. 5; Gaz. vol. 184; p. 43.
Conduit for high-tension electric currents. W. A. Warren. No. 1,044,108; Nov. 12; Gaz. vol. 184; p. 403.
Conduit-joint. G. B. Von Boden. No. 1,042,852; Oct. 29; Gaz. vol. 183; p. 1207.
Conduit-machine. J. S. Wheeler and E. R. Ramsey. No. 1,039,341; Sept. 24; Gaz. vol. 182; p. 820.
Conduit or culvert, Drain-. E. Carroll. No. 1,014,636; Jan. 16; Sp. p. 3449; Gaz. vol. 174; p. 592.
Conduit throttle, Fluid-. W. H. Curtin. No. 1,043,403; Nov. 5; Gaz. vol. 184; p. 128.
Conduit, Water-. G. Kaufman and C. Meriwether. No. 1,013,660; Jan. 2; Sp. p. 1260; Gaz. vol. 174; p. 198.
Conduits and pipes, Connector for. G. A. Lutz. No. 1,028,579; June 4; Sp. p. 1125; Gaz. vol. 179; p. 171.
Conduits, Attachment for wood-stave. J. W. Flinn. No. 1,020,137; Mar. 12; Sp. p. 2406; Gaz. vol. 176; p. 411.
Conduits, Holding-sleeve for. F. M. Brinckerhoff. No. 1,037,200; Sept. 3; Gaz. vol. 182; p. 8.
Confection-box. W. A. Cardy. No. 1,045,675; Nov. 26; Gaz. vol. 184; p. 1009.
Confectionery-box. S. E. Mortenson. No. 1,018,628; Feb. 27; Sp. p. 5349; Gaz. vol. 175; p. 927.
Confectionery, Coating. M. Robertson. No. 1,021,705; Mar. 26; Sp. p. 5708; Gaz. vol. 176; p. 1026.
Confectionery - coating machine. J. Mathison. No. 1,032,014; July 9; Gaz. vol. 180; p. 445.
Confectionery-cutting machine. J. L. Dern. No. 1,015,790; Jan. 30; Sp. p. 5947; Gaz. vol. 174; p. 1040.
Confetti-making apparatus. G. G. Griffin. No. 1,040,935; Oct. 8; Gaz. vol. 183; p. 458.
Configuration of objects. Machine for reproducing the. T. Selmersheim. No. 1,021,005; Mar. 26; Sp. p. 4251; Gaz. vol. 176; p. 790.
Connecting device. D. D. Gordon. No. 1,041,066; Oct. 15; Gaz. vol. 183; p. 537.
Connecting device between a draft and a drag member. J. A. Gregory. No. 1,029,439; June 11; Sp. p. 2987; Gaz. vol. 179; p. 500.
Connecting device, Elastic. C. A. Smith. No. 1,020,579; Mar. 19; Sp. p. 3350; Gaz. vol. 176; p. 595.
Connecting device, Elastic. J. N. Cutler. No. 1,026,566; May 14; Sp. p. 3234; Gaz. vol. 178; p. 534.
Connecting-rod. A. L. Wyman. No. 1,043,495; Nov. 5; Gaz. vol. 184; p. 161.
Connection, Flexible. T. Smith. No. 1,015,718; Jan. 23; Sp. p. 5795; Gaz. vol. 174; p. 988.
Connector. W. P. Hammond. No. 1,039,279; Sept. 24; Gaz. vol. 182; p. 799.
Connector. W. P. Hammond. No. 1,044,885; Nov. 19; Gaz. vol. 184; p. 702.
Conserves, Treating. B. Arkell. No. 1,037,103; Aug. 27; Gaz. vol. 181; p. 1018.
Construction material. J. M. Neil. No. 1,023,673; Apr. 16; Sp. p. 4060; Gaz. vol. 177; p. 712.
Contact-chamber. G. Eschellmann and A. Harmuth. No. 1,030,508; June 25; Sp. p. 5365; Gaz. vol. 179; p. 947.
Contact device. E. L. Aiken. No. 1,030,045; June 18; Sp. p. 4311; Gaz. vol. 179; p. 745.
Contact-maker. J. F. Webb, Jr. No. 1,030,441; June 25; Sp. p. 5192; Gaz. vol. 179; p. 923.
Contact mechanism. P. R. Werner. No. 1,036,943; Aug. 27; Gaz. vol. 181; p. 963.
Contact-plates, Spring. T. E. Murray. No. 1,018,334; Feb. 20; Sp. p. 4629; Gaz. vol. 175; p. 795.
Contact-switch, Revolving. E. J. Guay. No. 1,044,378; Nov. 12; Gaz. vol. 184; p. 495.
Container. G. Rogers. No. 1,015,638; Jan. 23; Sp. p. 5623; Gaz. vol. 174; p. 962.
Container. F. N. Phillippar and P. J. Desselle. No. 1,026,453; May 14; Sp. p. 3015; Gaz. vol. 178; p. 497.
Container. F. B. Davidson. No. 1,028,195; June 4; Sp. p. 309; Gaz. vol. 179; p. 40.
Container. J. C. Peebles. No. 1,031,867; July 9; Gaz. vol. 180; p. 397.
Container. K. Kohn. No. 1,041,635; Oct. 15; Gaz. vol. 183; p. 725.
Container and cutter, Combined. J. K. Toles. No. 1,026,778; May 21; Sp. p. 3718; Gaz. vol. 178; p. 644.
Container and dispensing device. A. B. Brodie. No. 1,013,120; Jan. 2; Sp. p. 58; Gaz. vol. 174; p. 12.
Container and dropper. H. W. Cadwell. No. 1,019,022; Mar. 5; Sp. p. 18; Gaz. vol. 176; p. 6.
Container, Dispensing-. W. A. Kirkpatrick and C. E. Poorman. No. 1,039,756; Oct. 1; Gaz. vol. 183; p. 29.
Container, Double-walled enamel-lined. C. F. Potter. No. 1,041,347; Oct. 15; Gaz. vol. 183; p. 632.
Container ends prior to crimping or double seaming, Machine for temporarily securing metallic. J. J. Griffin and G. M. Peacock. No. 1,047,793; Dec. 17; Gaz. vol. 185; p. 766.
Container for retaining articles in a chilled or frozen condition. J. Fritsche. No. 1,039,506; Sept. 24; Gaz. vol. 182; p. 878.
Container for retaining articles in a heated condition. J. Fritsche. No. 1,039,507; Sept. 24; Gaz. vol. 182; p. 878.
Container for small articles. P. B. Schravesande. No. 1,028,289; June 4; Sp. p. 498; Gaz. vol. 179; p. 73.
Container, Liquid-. K. Löhle. No. 1,044,672; Nov. 19; Gaz. vol. 184; p. 628.
Container, Pressure-medium. H. M. McCaslin. No. 1,028,373; June 4; Sp. p. 679; Gaz. vol. 179; p. 102.
Container-supporting device. H. E. Miller. No. 1,045,870; Dec. 3; Gaz. vol. 185; p. 26.
Container-testing machine. M. Karp. No. 1,042,558; Oct. 29; Gaz. vol. 183; p. 1104.
Continuous press. S. J. Vernsten. No. 1,032,167; July 9; Gaz. vol. 180; p. 167.
Contour-gage. G. G. Schelter. No. 1,019,923; Mar. 12; Sp. p. 1966; Gaz. vol. 176; p. 341.
Contractor's elevator. W. H. Insley. No. 1,019,327; Mar. 5; Sp. p. 723; Gaz. vol. 176; p. 112.
Control apparatus. E. F. Northrup. No. 1,022,498; Apr. 9; Sp. p. 1567; Gaz. vol. 177; p. 281.
Control apparatus, Remote. W. M. Scott. No. 1,022,644; Apr. 9; Sp. p. 1882; Gaz. vol. 177; p. 329.
Control system. K. A. Pauly. No. 1,026,364; May 14; Sp. p. 2825; Gaz. vol. 178; p. 468.
Control system. J. L. Hall. No. 1,029,362; June 11; Sp. p. 2808; Gaz. vol. 179; p. 473.
Control system. L. E. Bogen. No. 1,030,050; June 18; Sp. p. 4332; Gaz. vol. 179; p. 748.
Control system. H. A. Steen. No. 1,031,096; July 2; Gaz. vol. 180; p. 88.
Control system. C. E. Lord. No. 1,046,473; Dec. 10; Gaz. vol. 185; p. 274.
Control system for projectors and the like. J. L. Hall. No. 1,021,250; Mar. 26; Sp. p. 4771; Gaz. vol. 176; p. 871.
Controller. E. W. Stull. No. 1,018,019; Feb. 20; Sp. p. 3966; Gaz. vol. 175; p. 687.
Controller. J. F. Menningen. No. 1,028,948; June 11; Sp. p. 1913; Gaz. vol. 179; p. 331.
Controller. H. W. Cheney. No. 1,030,569; June 25; Sp. p. 5551; Gaz. vol. 179; p. 969.
Controller. H. D. James. No. 1,042,444; Oct. 29; Gaz. vol. 183; p. 1065.
Controller. A. J. Loguin. No. 1,048,419; Dec. 24; Gaz. vol. 185; p. 1003.
Controller, Auxiliary. R. Cramer. No. 1,022,407; Apr. 9; Sp. p. 1366; Gaz. vol. 177; p. 250.
Controller-handles, Re-forming. F. Brostrom. No. 1,030,160; June 18; Sp. p. 4535; Gaz. vol. 179; p. 783.
Controller-regulator. C. P. Ebersole. No. 1,024,769; Apr. 30; Sp. p. 6527; Gaz. vol. 177; p. 1149.
Controller-regulator. F. P. Maize. No. 1,044,212; Nov. 12; Gaz. vol. 184; p. 439.
Controlling apparatus. E. C. Molina. No. 1,039,988; Oct. 1; Gaz. vol. 183; p. 105.
Controlling device. H. W. Royce. No. 1,023,879; Apr. 23; Sp. p. 4505; Gaz. vol. 177; p. 807.
Controlling device. N. C. Durand. No. 1,027,702; May 28; Sp. p. 5715; Gaz. vol. 178; p. 996.

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Controlling device. M. Kuhn and R. Netter. No. 1,046,808; Dec. 10; Gaz. vol. 185; p. 392.
Controlling mechanism. C. Chambers, Jr. No. 1,014,376; Jan. 9; Sp. p. 2871; Gaz. vol. 174; p. 475.
Controlling mechanism. D. Larson. No. 1,016,834; Feb. 6; Sp. p. 1329; Gaz. vol. 175; p. 205.
Controlling mechanism. A. Winton. No. 1,040,479; Oct. 8; Gaz. vol. 183; p. 301.
Converter. A. Tropenas. No. 1,013,702; Jan. 2; Sp. p. 1358; Gaz. vol. 174; p. 211.
Converter. S. B. Frumkin. No. 1,025,260; May 7; Sp. p. 335; Gaz. vol. 178; p. 54.
Converter. A. F. S. Blackwood. No. 1,042,876; Oct. 29; Gaz. vol. 183; p. 1216.
Converter. G. W. and H. E. Conrad. No. 1,048,500; Dec. 31; Gaz. vol. 185; p. 1070.
Converter for metal. A. Zenzes. No. 1,035,295; Aug. 13; Gaz. vol. 181; p. 331.
Converter, Rotary. V. A. Fynn. No. 1,044,641; Nov. 19; Gaz. vol. 184; p. 616.
Converters, Blast connection for. R. Bernhard and A. Niedermeyer. No. 1,026,556; May 14; Sp. p. 3212; Gaz. vol. 178; p. 531.
Converters, Repairing. E. A. C. Smith. No. 1,044,587; Nov. 19; Gaz. vol. 184; p. 599.
Convertible chair. R. Moskowits. No. 1,026,276; May 14; Sp. p. 2609; Gaz. vol. 178; p. 437.
Convertible motor. J. C. Lincoln. No. 1,018,833; Feb. 27; Sp. p. 5782; Gaz. vol. 175; p. 999.
Convertible-tread wheel. H. W. Clapp and B. C. Edgar. No. 1,039,898; Oct. 1; Gaz. vol. 183; p. 77.
Convertible wrench. J. W. Perkins and D. W. Roberts. No. 1,013,812; Jan. 2; Sp. p. 1576; Gaz. vol. 174; p. 251.
Conveyance and signaling appliance therefor. R. H. Manson. No. 1,048,557; Dec. 31; Gaz. vol. 185; p. 1089.
Conveyances propelled by electricity, Safety device for passenger-carrying. W. B. Hopkins. No. 1,025,091; Apr. 30; Sp. p. 7184; Gaz. vol. 177; p. 1259.
Conveyer. C. D. Seeberger. No. 1,014,100; Jan. 9; Sp. p. 2261; Gaz. vol. 174; p. 377.
Conveyer. H. W. Sanner. No. 1,015,086; Jan. 16; Sp. p. 4433; Gaz. vol. 174; p. 746.
Conveyer. C. D. Seeberger. No. 1,015,406; Jan. 23; Sp. p. 5106; Gaz. vol. 174; p. 880.
Conveyer. B. H. Wright. No. 1,017,941; Feb. 20; Sp. p. 3802; Gaz. vol. 175; p. 660.
Conveyer. C. D. Seeberger. No. 1,020,060; Mar. 12; Sp. p. 2236; Gaz. vol. 176; p. 386.
Conveyer. M. A. King. No. 1,021,253; Mar. 26; Sp. p. 4778; Gaz. vol. 176; p. 872.
Conveyer. A. G. and C. A. Kline. No. 1,022,244; Apr. 2; Sp. p. 1046; Gaz. vol. 177; p. 166.
Conveyer. F. Fissithaler. No. 1,022,359; Apr. 2; Sp. p. 1262; Gaz. vol. 177; p. 203.
Conveyer. H. Coulston. No. 1,022,929; Apr. 9; Sp. p. 2513; Gaz. vol. 177; p. 428.
Conveyer. C. D. Seeberger. No. 1,023,443; Apr. 16; Sp. p. 3601; Gaz. vol. 177; p. 640.
Conveyer. C. D. Seeberger. No. 1,025,316; May 7; Sp. p. 462; Gaz. vol. 178; p. 73.
Conveyer. W. J. Turnbull. No. 1,026,617; May 14; Sp. p. 3338; Gaz. vol. 178; p. 551.
Conveyer. J. W. Dawson. No. 1,027,036; May 21; Sp. p. 4330; Gaz. vol. 178; p. 735.
Conveyer. C. W. Levalley. No. 1,028,751; June 4; Sp. p. 1478; Gaz. vol. 179; p. 228.
Conveyer. H. S. Gardner. No. 1,030,296; June 25; Sp. p. 4861; Gaz. vol. 179; p. 870.
Conveyer. A. C. Starkweather and J. Nagel. No. 1,030,344; June 25; Sp. p. 4983; Gaz. vol. 179; p. 888.
Conveyer. G. D. Parker. No. 1,034,641; Aug. 6; Gaz. vol. 181; p. 79.
Conveyer. C. D. Seeberger. No. 1,034,841; Aug. 6; Gaz. vol. 181; p. 148.
Conveyer. W. Graham. No. 1,039,730; Oct. 1; Gaz. vol. 183; p. 20.
Conveyer. B. Norton. No. 1,041,507; Oct. 15; Gaz. vol. 183; p. 685.
Conveyer. T. A. Edison. No. 1,041,756; Oct. 22; Gaz. vol. 183; p. 804.
Conveyer. C. D. Seeberger. No. 1,043,542; Nov. 5; Gaz. vol. 184; p. 178.
Conveyer. H. Velten. No. 1,046,511; Dec. 10; Gaz. vol. 185; p. 287.
Conveyer. C. A. Morris. No. 1,047,273; Dec. 17; Gaz. vol. 185; p. 582.
Conveyer. C. W. Hunt. No. 1,048,834; Dec. 31; Gaz. vol. 185; p. 1187.
Conveyer apparatus. W. C. Lawson. No. 1,021,052; Mar. 26; Sp. p. 4350; Gaz. vol. 176; p. 807.
Conveyer, Belt. J. L. Wentz. No. 1,014,106; Jan. 9; Sp. p. 2276; Gaz. vol. 174; p. 379.
Conveyer, Belt. F. J. Dearborn. No. 1,041,439; Oct. 15; Gaz. vol. 183; p. 662.
Conveyer-bucket. C. W. Olson. No. 1,014,666; Jan. 16; Sp. p. 3514; Gaz. vol. 174; p. 602.
Conveyer-bucket. R. W. Dull. No. 1,026,385; May 14; Sp. p. 2866; Gaz. vol. 178; p. 475.
Conveyer, Bucket. A. T. Perkins. No. 1,040,005; Oct. 1; Gaz. vol. 183; p. 111.
Conveyer, Chain. F. R. Cornwall. No. 1,038,726; Sept. 17; Gaz. vol. 182; p. 592.
Conveyer-cleat. W. Weichseldorfer. No. 1,020,863; Mar. 19; Sp. p. 3967; Gaz. vol. 176; p. 691.
Conveyer-cleat. F. E. Tuxworth. No. 1,024,232; Apr. 23; Sp. p. 5316; Gaz. vol. 177; p. 931.
Conveyer-cover. C. A. Fry. No. 1,023,636; Apr. 16; Sp. p. 4000; Gaz. vol. 177; p. 702.
Conveyer-drive. W. D. Mount. No. 1,032,850; July 16; Gaz. vol. 180; p. 774.
Conveyer-elbow. W. G. Hudson. No. 1,044,181; Nov. 12; Gaz. vol. 184; p. 427.
Conveyer-feeding mechanism. H. D. Pratt. No. 1,023,036; Apr. 9; Sp. p. 2723; Gaz. vol. 177; p. 465.
Conveyer, Flight. J. F. White. No. 1,016,190; Jan. 30; Sp. p. 6769; Gaz. vol. 174; p. 1177.
Conveyer, Flight. J. F. White. No. 1,016,191; Jan. 30; Sp. p. 6771; Gaz. vol. 174; p. 1177.
Conveyer, Flight. J. F. White. No. 1,016,192; Jan. 30; Sp. p. 6773; Gaz. vol. 174; p. 1178.
Conveyer for metal rods. V. E. Edwards and J. R. George. No. 1,031,057; July 2; Gaz. vol. 180; p. 75.
Conveyer for metal rods. V. E. Edwards and J. R. George. No. 1,031,058; July 2; Gaz. vol. 180; p. 75.
Conveyer for use in mines. F. Billings. No. 1,030,226; June 18; Sp. p. 4691; Gaz. vol. 179; p. 807.
Conveyer, Gravity-. J. W. Anderson, Jr. No. 1,038,514; Sept. 17; Gaz. vol. 182; p. 518.
Conveyer, Link-belt. N. B. Widmayer. No. 1,040,828; Oct. 8; Gaz. vol. 183; p. 424.
Conveyer-loading apparatus. W. C. Lawson. No. 1,047,252; Dec. 17; Gaz. vol. 185; p. 574.
Conveyer, Lure-. O. P. Smith. No. 1,038,504; Sept. 10; Gaz. vol. 182; p. 480.
Conveyer, Plural-belt. W. W. Wallace. No. 1,044,428; Nov. 12; Gaz. vol. 184; p. 512.
Conveyer, Pneumatic. E. F. and T. F. Birkenkamp. No. 1,034,961; Aug. 6; Gaz. vol. 181; p. 188.
Conveyer, Portable. P. L. Wooster. No. 1,031,501; July 2; Gaz. vol. 180; p. 227.
Conveyer, Roller. O. Eick. No. 1,019,030; Mar. 5; Sp. p. 30; Gaz. vol. 176; p. 9.
Conveyer, Screw. D. D. Drummond. No. 1,019,438; Mar. 5; Sp. p. 1005; Gaz. vol. 176; p. 147.
Conveyer-slats, Means for attaching. G. E. Glisar. No. 1,015,558; Jan. 23; Sp. p. 5446; Gaz. vol. 174; p. 932.
Conveyer switch, Gravity-. M. C. Schwab. No. 1,047,309; Dec. 17; Gaz. vol. 185; p. 596.
Conveyer-unloader. A. Brotz. No. 1,045,939; Dec. 3; Gaz. vol. 185; p. 49.
Conveyers, Discharging apparatus for belt. T. A. Edison. (Reissue.) No. 13,434; June 25; Sp. p. 6457; Gaz. vol. 179; p. 1076.
Conveyers, Side troughing-roll for belt. E. Cuddihy. No. 1,035,322; Aug. 13; Gaz. vol. 181; p. 341.
Conveyers, Spiral blade for gravity-. M. C. Schwab. No. 1,014,262; Jan. 9; Sp. p. 2607; Gaz. vol. 174; p. 435.
Conveyers, &c., Supporting and driving device for. A. J. Hartley. No. 1,033,317; July 23; Gaz. vol. 180; p. 971.
Conveying and discharging apparatus. W. G. Wilson. No. 1,041,548; Oct. 15; Gaz. vol. 183; p. 698.
Conveying and feeding mechanism. W. L. Montgomery. No. 1,028,766; June 4; Sp. p. 1504; Gaz. vol. 179; p. 234.
Conveying and packing materials. C. Cable. No. 1,020,962; Mar. 26; Sp. p. 4167; Gaz. vol. 176; p. 775.
Conveying and sorting device. A. B. Proal, Jr. No. 1,046,853; Dec. 10; Gaz. vol. 185; p. 406
Conveying apparatus. E. Locke. No. 1,015,570; Jan. 23; Sp. p. 5476; Gaz. vol. 174; p. 937.
Conveying apparatus. J. H. Gilman. No. 1,021,866; Apr. 2; Sp. p. 250; Gaz. vol. 177; p. 41.
Conveying apparatus. A. S. Dwight. No. 1,027,111; May 21; Sp. p. 4513; Gaz. vol. 178; p. 760.
Conveying apparatus. P. R. Bannon. No. 1,030,451; June 25; Sp. p. 5208; Gaz. vol. 179; p. 927.
Conveying apparatus. G. Sauvola. No. 1,030,749; June 25; Sp. p. 6069; Gaz. vol. 179; p. 1034.
Conveying system. F. J. Schraeder, Jr. No. 1,014,727; Jan. 16; Sp. p. 3645; Gaz. vol. 174; p. 623.
Conveying system. F. J. Schraeder, Jr. No. 1,015,251; Jan. 16; Sp. p. 4749; Gaz. vol. 174; p. 801.
Conveying-trough. H. Roth. No. 1,022,332; Apr. 2; Sp. p. 1217; Gaz. vol. 177; p. 194.
Cooker. G. A. Long. No. 1,024,213; Apr. 23; Sp. p. 5270; Gaz. vol. 177; p. 924.
Cooker. J. Koppmann. No. 1,038,393; Sept. 10; Gaz. vol. 182; p. 441.
Cooker. J. E. Chambers. No. 1,041,022; Oct. 15; Gaz. vol. 183; p. 522.
Cooker. H. B. Seely. No. 1,046,870; Dec. 10; Gaz. vol. 185; p. 412.
Cooker, Agitating-. W. J. Schaefer. No. 1,044,822; Nov. 19; Gaz. vol. 184; p. 681.
Cooker and heater, Combined. A. Carpenter. No. 1,043,667; Nov. 5; Gaz. vol. 184; p. 220.
Cooker, Coffee-. J. N. Shaw. No. 1,022,337; Apr. 2; Sp. p. 1226; Gaz. vol. 177; p. 196.
Cooker, Electrically-heated. A. J. Kercher. No. 1,047,417; Dec. 17; Gaz. vol. 185; p. 632.

Alphabetical list of inventions—Continued.

Cooker, Electrically-heated. A. J. Kercher. No. 1,047,418; Dec. 17; Gaz. vol. 185; p. 632.
Cooker, Fireless. J. E. Sheaffer. No. 1,014,911; Jan. 16; Sp. p. 4059; Gaz. vol. 174; p. 686.
Cooker, Fireless. A. W. Jansen. No. 1,021,679; Mar. 26; Sp. p. 5653; Gaz. vol. 176; p. 1017.
Cooker, Fireless. C. A. Lauzon and J. A. Rose. No. 1,029,137; June 11; Sp. p. 2320; Gaz. vol. 179; p. 396.
Cooker for oil-bearing meal and the like, Steam-. A. W. French. No. 1,015,013; Jan. 16; Sp. p. 4293; Gaz. vol. 174; p. 722.
Cooker, Fry-cake and doughnut. G. R. von Krogoll. No. 1,025,630; May 7; Sp. p. 1177; Gaz. vol. 178; p. 181.
Cooker, Heat-insulated. H. Bienutta, G. Fischbach, and C. Zigahn. No. 1,041,581; Oct. 15; Gaz. vol. 183; p. 707.
Cooker, Oil and gas. N. C. Sprague. No. 1,023,768; Apr. 16; Sp. p. 4218; Gaz. vol. 177; p. 741.
Cooker reinforced heat-retaining stone, Fireless-. H. A. McCord. No. 1,034,268; July 30; Gaz. vol. 180; p. 1320.
Cooking apparatus. R. B. Vessey. No. 1,026,334; May 14; Sp. p. 2748; Gaz. vol. 178; p. 459.
Cooking apparatus. W. E. Baxter. No. 1,040,119; Oct. 1; Gaz. vol. 183; p. 150.
Cooking apparatus. H. J. Fell. No. 1,040,916; Oct. 8; Gaz. vol. 183; p. 452.
Cooking apparatus. M. Bohlig. No. 1,047,122; Dec. 10; Gaz. vol. 185; p. 497.
Cooking-apparatus boiler. A. Reichert. No. 1,042,143; Oct. 22; Gaz. vol. 183; p. 935.
Cooking apparatus, Fireless-. A. H. Revell and T. P. Murray. No. 1,043,360; Nov. 5; Gaz. vol. 184; p. 113.
Cooking articles of food. C. Lampert. No. 1,024,637; Apr. 30; Sp. p. 6263; Gaz. vol. 177; p. 1103.
Cooking cotton-seed or linseed meats, Device for. C. H. Fulson. No. 1,041,455; Oct. 15; Gaz. vol. 183; p. 668.
Cooking device, Coffee-. H. Paulson. No. 1,024,145; Apr. 23; Sp. p. 5118; Gaz. vol. 177; p. 900.
Cooking outfit, Field. C. A. Grover. No. 1,038,121; Sept. 10. Gaz. vol. 182; p. 348.
Cooking utensil. M. J. Woodworth. No. 1,013,253; Jan. 2; Sp. p. 358; Gaz. vol. 174; p. 57.
Cooking utensil. E. B. Smith and A. V. Marston. No. 1,014,342; Jan. 9; Sp. p. 2801; Gaz. vol. 174; p. 463.
Cooking utensil. I. Larson. No. 1,016,339; Feb. 6; Sp. p. 235; Gaz. vol. 175; p. 36.
Cooking utensil. J. Kowalski. No. 1,018,116; Feb. 20; Sp. p. 4198; Gaz. vol. 175; p. 721.
Cooking utensil. I. E. Miller. No. 1,020,304; Mar. 12; Sp. p. 2749; Gaz. vol. 176; p. 466.
Cooking utensil. M. A. Hayes. No. 1,022,237; Apr. 2; Sp. p. 1033; Gaz. vol. 177; p. 165.
Cooking utensil. F. Kneifel and T. H. Watt. No. 1,022,245; Apr. 2; Sp. p. 1048; Gaz. vol. 177; p. 167.
Cooking utensil. P. W. Hamilton. No. 1,023,645; Apr. 16; Sp. p. 4012; Gaz. vol. 177; p. 704.
Cooking utensil. H. P. Holm. No. 1,028,726; June 4; Sp. p. 1411; Gaz. vol. 179; p. 220.
Cooking utensil. A. B. Arctander. No. 1,034,563; Aug. 6; Gaz. vol. 181; p. 55.
Cooking utensil. L. S. Lachman. No. 1,034,805; Aug. 6; Gaz. vol. 181; p. 136.
Cooking utensil. F. Nestor. No. 1,041,332; Oct. 15; Gaz. vol. 183; p. 627.
Cooking utensil. F. D. Calkins. No. 1,046,263; Dec. 3; Gaz. vol. 185; p. 162.
Cooking utensil. E. Berthold. No. 1,047,608; Dec. 17; Gaz. vol. 185; p. 701.
Cooking utensil, Electric. L. F. Parkhurst and H. G. Weeks. No. 1,023,754; Apr. 16; Sp. p. 4193; Gaz. vol. 177; p. 736.
Cooking utensil, Electric. F. Kuhn. No. 1,047,088; Dec. 10; Gaz. vol. 185; p. 484.
Cooking-utensil lid. C. Spencer. No. 1,017,183; Feb. 13; Sp. p. 2125; Gaz. vol. 175; p. 363.
Cooking vessel. J. F. Haynes. No. 1,034,233; July 30; Gaz. vol. 180; p. 1307.
Cooler: *See* Air-cooler; Automobile-cooler; Beer-cooler; Brine-cooler; Clinker-cooler; Evaporating-cooler; Evaporative cooler; Journal-box cooler; Liquid-cooler; Milk, cream, and water cooler; Personal cooler; Pop-cooler; Water-cooler.
Cooler. P. Stauf. No. 1,017,478; Feb. 13; Sp. p. 2766; Gaz. vol. 175; p. 466.
Cooler. O. L. Meeks. No. 1,024,014; Apr. 23; Sp. p. 4804; Gaz. vol. 177; p. 853.
Cooler. R. C. Gildersleeve. No. 1,037,754; Sept. 3; Gaz. vol. 182; p. 193.
Cooler. A. E. Andersen. No. 1,038,511; Sept. 17; Gaz. vol. 182; p. 517.
Cooling and filtering machine. J. Gavelack. No. 1,013,761; Jan. 2; Sp. p. 1482; Gaz. vol. 174; p. 234.
Cooling and refrigeration apparatus. O. Kuphal. No. 1,036,528; Aug. 20; Gaz. vol. 181; p. 794.
Cooling and vending machine attachment. G. T. Bailey. No. 1,016,601; Feb. 6; Sp. p. 849; Gaz. vol. 175; p. 127.
Cooling-board. M. Smysor. No. 1,027,921; May 28; Sp. p. 6231; Gaz. vol. 178; p. 1070.
Cooling device. H. Moeller. No. 1,014,893; Jan. 16; Sp. p. 4025; Gaz. vol. 174; p. 680.
Cooling device. L. E. Larrance. No. 1,027,660; May 28; Sp. p. 5623; Gaz. vol. 178; p. 982.
Cooling device. P. W. Foster. No. 1,048,516; Dec. 31; Gaz. vol. 185; p. 1076.
Cooling device, Pneumatic. H. T. Sundstrom. No. 1,038,022; Sept. 10; Gaz. vol. 182; p. 318.
Cooling liquefied solids, Apparatus for. M. Kind. No. 1,046,307; Dec. 3; Gaz. vol. 185; p. 177.
Cooling-tower. E. Burhorn. No. 1,014,371; Jan. 9; Sp. p. 2862; Gaz. vol. 174; p. 473.
Cooling-tower. B. H. Coffey. No. 1,027,184; May 21; Sp. p. 4657; Gaz. vol. 178; p. 783.
Cooling-tower. E. Burhorn. No. 1,040,875; Oct. 8; Gaz. vol. 183; p. 438.
Coop. C. R. Baker. No. 1,040,489; Oct. 8; Gaz. vol. 183; p. 304.
Coop, Chicken-. E. Stout and J. M. Knowles. No. 1,013,233; Jan. 2; Sp. p. 316; Gaz. vol. 174; p. 50.
Coop, Chicken-. L. M. Rich. No. 1,029,144; June 11; Sp. p. 2334; Gaz. vol. 179; p. 398.
Coop, Chicken-. C. V. Hays. No. 1,039,532; Sept. 24; Gaz. vol. 182; p. 887.
Coop, Chicken-. R. O. Hammond. No. 1,049,228; Dec. 31; Gaz. vol. 185; p. 1321.
Coop, Collapsible. J. B. Davis and H. W. Smith. No. 1,017,140; Feb. 13; Sp. p. 2030; Gaz. vol. 175; p. 348.
Coop, Foldable chicken-. T. A. Mehringer. No. 1,031,359; July 2; Gaz. vol. 180; p. 179.
Coop, Folding chicken-. C. A. Brewster. No. 1,033,666; July 23; Gaz. vol. 180; p. 1084.
Coop, Knockdown brooder-. W. Warnick and H. L. Leilich. No. 1,048,611; Dec. 31; Gaz. vol. 185; p. 1108.
Coop, Knockdown chicken-. I. Davis. No. 1,024,441; Apr. 23; Sp. p. 5730; Gaz. vol. 177; p. 997.
Coop, Knockdown chicken-. W. H. Compton. No. 1,028,933; June 11; Sp. p. 1886; Gaz. vol. 179; p. 326.
Coop, Metal collapsible chicken-. C. Petersen. No. 1,047,561; Dec. 17; Gaz. vol. 185; p. 685.
Coop, Poultry-. L. D. Fowler. No. 1,039,113; Sept. 24; Gaz. vol. 182; p. 739.
Coop, Sectional. E. W. Philo. No. 1,013,563; Jan. 2; Sp. p. 1025; Gaz. vol. 174; p. 164.
Cop or bobbin. C. Ryden. No. 1,038,971; Sept. 17; Gaz. vol. 182; p. 677.
Cop-tube. H. Kellerman. No. 1,029,065; June 11; Sp. p. 2162; Gaz. vol. 179; p. 372.
Copies of certain objects in solid material, Making. W. Barrows and H. L. Moreau. No. 1,020,679; Mar. 19; Sp. p. 3562; Gaz. vol. 176; p. 627.
Copper and nickel, particularly from low-grade ores and products, Extraction of. W. Borchers and H. Pedersen. No. 1,043,291; Nov. 5; Gaz. vol. 184; p. 87.
Copper from calcined ore or slags, Extracting. A. Gadomsky. No. 1,014,868; Jan. 16; Sp. p. 3976; Gaz. vol. 174; p. 672.
Copper from compounds containing the same, Recovering. U. Wedge. No. 1,043,490; Nov. 5; Gaz. vol. 184; p. 160.
Copper from its ores, Recovering. H. K. Hess. No. 1,014,061; Jan. 9; Sp. p. 2175; Gaz. vol. 174; p. 364.
Copper from the wash liquors employed in the cuprammonia-cellulose process, Recovering. E. Bronnert. No. 1,049,201; Dec. 31; Gaz. vol. 185; p. 1312.
Copper, Fusing and purifying. W. S. Rockey and H. Eldridge. No. 1,018,681; Feb. 27; Sp. p. 5456; Gaz. vol. 175; p. 946.
Copper, lead, or iron vanadate from vanadiferous ores, Producing. W. F. Bleecker. No. 1,015,469; Jan. 23; Sp. p. 5265; Gaz. vol. 174; p. 902.
Copper, Material for treating. J. Kich. No. 1,041,297; Oct. 15; Gaz. vol. 183; p. 616.
Copper ores or copper-ore-mill tailings, Treating. J. W. Bennie. No. 1,019,708; Mar. 5; Sp. p. 1518; Gaz. vol. 176; p. 235.
Copper ores, Treating. R. Gabl. No. 1,021,768; Apr. 2; Sp. p. 25; Gaz. vol. 177; p. 7.
Copper, Refining. W. S. Rockey and H. Eldridge. No. 1,027,769; May 28; Sp. p. 5842; Gaz. vol. 178; p. 1017.
Copper, Refining. W. S. Rockey and H. Eldridge. No. 1,037,538; Sept. 3; Gaz. vol. 182; p. 122.
Copy-holder. R. B. Griffith. No. 1,014,646; Jan. 16; Sp. p. 3469; Gaz. vol. 174; p. 596.
Copy-holder. I. H. P. Colleen. No. 1,028,097; June 4; Sp. p. 9; Gaz. vol. 179; p. 4.
Copy-holder. J. F. Leigh. No. 1,032,288; July 9; Gaz. vol. 180; p. 539.
Copy-holder. D. H. Roberts and J. Peterson. No. 1,044,574; Nov. 19; Gaz. vol. 184; p. 593.
Copy-holder. H. J. Richendrfer and R. Boone. No. 1,045,747; Nov. 26; Gaz. vol. 184; p. 1033.
Copying apparatus. W. D. Bresee. No. 1,019,297; Mar. 5; Sp. p. 654; Gaz. vol. 176; p. 102.
Copying apparatus. G. H. Coqueugniot. No. 1,040,976; Oct. 8; Gaz. vol. 183; p. 473.
Copying apparatus, Letter-. E. A. Klaber. No. 1,028,885; June 11; Sp. p. 1770; Gaz. vol. 179; p. 309.
Copying apparatus, Letter-. A. D. Klaber. No. 1,030,310; June 25; Sp. p. 4907; Gaz. vol. 179; p. 876.
Copying apparatus, Letter-. E. A. Klaber. No. 1,047,242; Dec. 17; Gaz. vol. 185; p. 570.

Alphabetical list of inventions—Continued.

Copying-iron. F. H. Tongue. No. 1,036,165; Aug. 20; Gaz. vol. 181; p. 667.
Copying-machine. J. J. Flanigan. No. 1,019,312; Mar. 5; Sp. p. 687; Gaz. vol. 176; p. 107.
Copying-machine, Sculptor's. H. Hundrieser. No. 1,039,406; Sept. 24; Gaz. vol. 182; p. 842.
Cord for use in the manufacture of chairs or other articles. H. B. Morris. No. 1,027,751; May 28; Sp. p. 5802; Gaz. vol. 178; p. 1011.
Cord or cable supporting bracket. J. V. Trenaman. No. 1,026,186; May 14; Sp. p. 2415; Gaz. vol. 178; p. 406.
Cord or rope making machine. T. W. Norman. No. 1,031,367; July 2; Gaz. vol. 180; p. 182.
Cord-terminal. C. B. Schoenmehl. No. 1,044,923; Nov. 19; Gaz. vol. 184; p. 715.
Cord-tightening device. A. G. Soistmann. No. 1,034,155; July 30; Gaz. vol. 180; p. 1280.
Core. M. H. Fletcher. No. 1,038,550; Sept. 17; Gaz. vol. 182; p. 531.
Core-actuator. C. O. Brandell. No. 1,023,920; Apr. 23; Sp. p. 4617; Gaz. vol. 177; p. 822.
Core-bar pusher. J. R. McWane. No. 1,035,376; Aug. 13; Gaz. vol. 181; p. 361.
Core-bar-turning device, Multiple-. J. R. McWane. No. 1,035,375; Aug. 13; Gaz. vol. 181; p. 361.
Core-box. W. K. Levering. No. 1,028,367; June 4; Sp. p. 668; Gaz. vol. 179; p. 100.
Core-box-clamping machine. P. B. Harrison and A. P. Rissler. No. 1,022,363; Apr. 2; Sp. p. 1272; Gaz. vol. 177; p. 204.
Core-chaplet. E. W. Smith. No. 1,027,673; May 28; Sp. p. 5658; Gaz. vol. 178; p. 986.
Core, Cylinder-. F. E. Burk. No. 1,037,859; Sept. 10; Gaz. vol. 182; p. 260.
Core-drilling machinery. C. A. Terry. No. 1,025,333; May 7; Sp. p. 501; Gaz. vol. 178; p. 78.
Core for molding or casting, Collapsible. G. Atterbury. No. 1,042,749; Oct. 29; Gaz. vol. 183; p. 1172.
Core for resilient objects. W. Barbour. No. 1,031,671; July 2; Gaz. vol. 180; p. 285.
Core-grinding machine. O. E. Bremer. No. 1,049,200; Dec. 31; Gaz. vol. 185; p. 1311.
Core-making machine. G. L. Grimes. No. 1,018,823; Feb. 27; Sp. p. 5768; Gaz. vol. 175; p. 996.
Core-making machine. C. C. Peterson. No. 1,030,326; June 25; Sp. p. 4944; Gaz. vol. 179; p. 882.
Core-oven. C. F. Frede and H. M. Pflager. No. 1,029,986; June 18; Sp. p. 4180; Gaz. vol. 179; p. 725.
Core retainer or lifter. C. S. Proctor, N Loftus, and J. Anderson. No. 1,038,436; Sept. 10; Gaz. vol. 182; p. 458.
Core venting and wiring machine. J. E. Boegen. No. 1,015,610; Jan. 23; Sp. p. 5556; Gaz. vol. 174; p. 952.
Cores, Method of and apparatus for making. J. C. Bannister. No. 1,034,335; July 30; Gaz. vol. 180; p. 1342.
Corer and sizer, Automatic fruit. H. G. Ginaca. No. 1,039,926; Oct. 1; Gaz. vol. 183; p. 85.
Corer, Apple-. W. S. Shuler. No. 1,042,489; Oct. 29; Gaz. vol. 183; p. 1081.
Corer for tomatoes and other vegetables. E. H. Sawyer and M. Fels. No. 1,016,039; Jan. 30; Sp. p. 6478; Gaz. vol. 174; p. 1127.
Coring and cutting device, Fruit. L. B. Richard. No. 1,042,823; Oct. 29; Gaz. vol. 183; p. 1197.
Coring and sectioning device, Apple. C. A. Smith. No. 1,034,037; July 30; Gaz. vol. 180; p. 1240.
Cork articles, Making. L. L. Bentley. No. 1,035,146; Aug. 13; Gaz. vol. 181; p. 277.
Cork-assorting machine. J. A. Snyder. No. 1,031,481; July 2; Gaz. vol. 180; p. 221.
Cork-bark-splitting machine. A. H. Biertuempfel. No. 1,038,272; Sept. 10; Gaz. vol. 182; p. 400.
Cork-cutting machine. A. Bogdánffy. No. 1,048,283; Dec. 24; Gaz. vol. 185; p. 958.
Cork-extractor. R. L. Wilson. No. 1,030,698; June 25; Sp. p. 5943; Gaz. vol. 179; p. 1015.
Cork-extractor. J. H. Jones and E. Lippert. No. 1,040,956; Oct. 8; Gaz. vol. 183; p. 466.
Cork-extractor. H. Nies. No. 1,042,952; Oct. 29; Gaz. vol. 183; p. 1241.
Cork film, Manufacture of. H. G. Vincke and J. Miquel. No. 1,020,669; Mar. 19; Sp. p. 3544; Gaz. vol. 176; p. 624.
Cork-making machine. F. W. Delanoy. No. 1,017,039; Feb. 13; Sp. p. 1792; Gaz. vol. 175; p. 312.
Cork-shell-cutting machine. A. Bogdánffy. No. 1,048,282; Dec. 24; Gaz. vol. 185; p. 957.
Corks, Automatic feeder for the metallic caps of crown. A. Bogdánffy. No. 1,022,818; Apr. 9; Sp. p. 2287; Gaz. vol. 177; p. 391.
Corks in bottles, Machine for inserting. E. Horn and E. Sherman. No. 1,013,493; Jan. 2; Sp. p. 885; Gaz. vol. 174; p. 141.
Corkscrew. E. Earle. No. 1,036,980; Aug. 27; Gaz. vol. 181; p. 977.
Corkscrews, Making. E. Walker. No. 1,038,692; Sept. 17; Gaz. vol. 182; p. 581.
Corn and cane header. O. Schubert. No. 1,031,472; July 2; Gaz. vol. 180; p. 218.
Corn and like cereals, Preserving. J. C. Doane. No. 1,044,150; Nov. 12; Gaz. vol. 184; p. 417.
Corn and the like, Heading device for Kafir. A. Drury. No. 1,028,690; June 4; Sp. p. 1337; Gaz. vol. 179; p. 207.
Corn and the result of such process, Process of separating the germ or germ and hull from. H. Wulkan. No. 1,045,490; Nov. 26; Gaz. vol. 184; p. 942.
Corn, &c., Apparatus for heading Kafir. T. H. Sparks. No. 1,032,088; July 9; Gaz. vol. 180; p. 469.
Corn-bin. T. Forstner. No. 1,045,963; Dec. 3; Gaz. vol. 185; p. 58.
Corn-butting machine. J. Morral. No. 1,029,213; June 11; Sp. p. 2475; Gaz. vol. 179; p. 421.
Corn, cane, &c., Apparatus for cutting Kafir. T. H. Sparks. No. 1,033,631; July 23; Gaz. vol. 180; p. 1073.
Corn-coverer. T. F. Payne. No. 1,030,244; June 18; Sp. p. 4728; Gaz. vol. 179; p. 813.
Corn, Curing and preserving seed-. W. W. Wentworth. No. 1,037,382; Sept. 3; Gaz. vol. 182; p. 69.
Corn-cutter. G. S. Elliott. No. 1,041,049; Oct. 15; Gaz. vol. 183; p. 531.
Corn cutter, Kafir-. H. A. Gerstenfield and E. Friend. No. 1,047,040; Dec. 10; Gaz. vol. 185; p. 468.
Corn-cutting machine, Green-. J. M. C. Jones. No. 1,037,014; Aug. 27; Gaz. vol. 181; p. 988.
Corn drier, Seed-. T. C. Sime. No. 1,027,672; May 28; Sp. p. 5658; Gaz. vol. 178; p. 985.
Corn-drying device or utensil, Seed-. J. S. and B. L. Bain. No. 1,026,550; May 14; Sp. p. 3200; Gaz. vol. 178; p. 529.
Corn-droppers, Selector for. J. A. Anderson. No. 1,020,591; Mar. 19; Sp. p. 3369; Gaz. vol. 176; p. 599.
Corn-extracting device. R. B. Parker, Jr. No. 1,036,893; Aug. 27; Gaz. vol. 181; p. 947.
Corn-fodder salter, Shredded-. E. J. Schaefer. No. 1,033,199; July 23; Gaz. vol. 180; p. 930.
Corn from the cob, Device for removing. M. Kohn. No. 1,035,606; Aug. 13; Gaz. vol. 181; p. 438.
Corn gathering and husking machine. T. C. Stowell. No. 1,027,013; May 21; Sp. p. 4256; Gaz. vol. 178; p. 726.
Corn-gathering machine. H. Rust. No. 1,046,335; Dec. 3; Gaz. vol. 185; p. 187.
Corn-grader. D F. Luse. No. 1,043,019; Oct. 29; Gaz. vol. 183; p. 1265.
Corn grader, Seed-. C. Hunnicutt. No. 1,026,265; May 14; Sp. p. 2589; Gaz. vol. 178; p. 434.
Corn grader, Seed-. C. Hunnicutt. No. 1,027,734; May 28; Sp. p. 5771; Gaz. vol. 178; p. 1005.
Corn hanger, Seed-. G. A. Lang. No. 1,035,019; Aug. 6; Gaz. vol. 181; p. 206.
Corn-header frame, Kafir-. T. J. Hammons. No. 1,033,691; July 23; Gaz. vol. 180; p. 1091.
Corn-holder. H. Horton. No. 1,030,729; June 25; Sp. p. 6026; Gaz. vol. 179; p. 1026.
Corn-husker. J. Linder. No. 1,022,428; Apr. 9; Sp. p. 1435; Gaz. vol. 177; p. 257.
Corn-husker. W. L. Stallard. No. 1,027,446; May 28; Sp. p. 5195; Gaz. vol. 178; p. 911.
Corn-husker. W. H. and W. H. Allen. No. 1,035,071; Aug. 6; Gaz. vol. 181; p. 222.
Corn-husker. H. Besser. No. 1,040,854; Oct. 8; Gaz. vol. 183; p. 431.
Corn-husker. J. Wolfe. No. 1,048,624; Dec. 31; Gaz. vol. 185; p. 1112.
Corn husker and shredder. G. M. Merwin. No. 1,017,783; Feb. 20; Sp. p. 3433; Gaz. vol. 175; p. 604.
Corn husking and silking machine. J. H. O'Hara. No. 1,015,740; Jan. 23; Sp. p. 5839; Gaz. vol. 174; p. 995.
Corn-husking machine. W. C. Culbertson. No. 1,018,881; Feb. 27; Sp. p. 5874; Gaz. vol. 175; p. 1013.
Corn-husking machine. C. E. Barrie. No. 1,019,586; Mar. 5; Sp. p. 1299; Gaz. vol. 176; p. 195.
Corn-husking machine. J. Rickel. No. 1,019,838; Mar. 12; Sp. p. 1771; Gaz. vol. 176; p. 310.
Corn-husking machine. L. E. Streng. No. 1,020,326; Mar. 12; Sp. p. 2788; Gaz. vol. 176; p. 472.
Corn-husking machine. W. H. Sells. No. 1,028,616; June 4; Sp. p. 1200; Gaz. vol. 179; p. 183.
Corn-husking machine. G. W. Skinner. No. 1,034,152; July 30; Gaz. vol. 180; p. 1279.
Corn-husking machine. J. E. Goodhue. No. 1,040,663; Oct. 8; Gaz. vol. 183; p. 370.
Corn-husking machine. S. German. No. 1,047,783; Dec. 17; Gaz. vol. 185; p. 762.
Corn-husking rollers. B. Gronke. No. 1,030,467; June 25; Sp. p. 5243; Gaz. vol. 179; p. 933.
Corn, Machine for snapping and husking ears of. J. F. Mast. No. 1,021,321; Mar. 26; Sp. p. 4907; Gaz. vol. 176; p. 897.
Corn on the cob, Preserving green. C. L. Watson. No. 1,013,244; Jan. 2; Sp. p. 339; Gaz. vol. 174; p. 54.
Corn-parer, Safety. S. Korper. No. 1,014,154; Jan. 9; Sp. p. 2366; Gaz. vol. 174; p. 395.
Corn-pick. D. B. Stone. No. 1,018,788; Feb. 27; Sp. p. 5687; Gaz. vol. 175; p. 983.
Corn-picker. B. J. Kaull. No. 1,023,320; Apr. 16; Sp. p. 3369; Gaz. vol. 177; p. 601.
Corn picking and husking machine. W. H. Russell. No. 1,018,346; Feb. 20; Sp. p. 4648; Gaz. vol. 175; p. 799.

Alphabetical list of inventions—Continued.

Corn-planter. I. W. Miller. No. 1,032,693; July 16; Gaz. vol. 180; p. 721.
Corn-plaster. J. M. Brandenburg. No. 1,026,786; May 21; Sp. p. 3736; Gaz. vol. 178; p. 647.
Corn-popper. M. A. Freeman. No. 1,019,448; Mar. 5; Sp. p. 1023; Gaz. vol. 176; p. 150.
Corn-popper. L. Rowan. No. 1,021,426; Mar. 26; Sp. p. 5160; Gaz. vol. 176; p. 934.
Corn-popper with detachable handle and lid. C. C. Cornwell. No. 1,039,261; Sept. 24; Gaz. vol. 182; p. 793.
Corn-popping device and attachment therefor. J. C. Hilton. No. 1,032,212; July 9; Gaz. vol. 180; p. 512.
Corn-popping machine. F. P. McColg. No. 1,021,322; Mar. 26; Sp. p. 4908; Gaz. vol. 176; p. 897.
Corn-popping machine. J. A. Rotherham. No. 1,026,052; May 14; Sp. p. 2120; Gaz. vol. 178; p. 360.
Corn-rack. J. H. Brown. No. 1,039,359; Sept. 24; Gaz. vol. 182; p. 826.
Corn removing and curing device. D. M. Don Jian. No. 1,025,903; May 7; Sp. p. 1781; Gaz. vol. 178; p. 273.
Corn-sheller. S. Ordóñez. No. 1,016,089; Jan. 30; Sp. p. 6596; Gaz. vol. 174; p. 1146.
Corn-sheller. C. Bozile. No. 1,016,471; Feb. 6; Sp. p. 538; Gaz. vol. 175; p. 82.
Corn-sheller. J. H. Gilman. No. 1,018,820; Feb. 27; Sp. p. 5762; Gaz. vol. 175; p. 994.
Corn-sheller. C. McKee. No. 1,029,451; June 11; Sp. p. 3012; Gaz. vol. 179; p. 504.
Corn-sheller. C. Machacek, Jr. No. 1,034,809; Aug. 6; Gaz. vol. 181; p. 138.
Corn-sheller feeder. J. N. Kailor. No. 1,039,293; Sept. 24; Gaz. vol. 182; p. 804.
Corn-sheller spring mechanism. J. Velder. No. 1,026,134; May 14; Sp. p. 2306; Gaz. vol. 178; p. 389.
Corn-shellers, Chute attachment for. N. L. Larson. No. 1,021,201; Mar. 26; Sp. p. 4655; Gaz. vol. 176; p. 854.
Corn-shellers, &c., Cleaning apparatus for. F. Hall. (Reissue.) No. 13,418; May 14; Sp. p. 3421; Gaz. vol. 178; p. 564.
Corn-shelling machines, Suction device for. C. M. Rushing and A. J. Wheeler. No. 1,015,346; Jan. 23; Sp. p. 4989; Gaz. vol. 174; p. 861.
Corn-shock binding and tying device. G. F. Moyers. No. 1,035,628; Aug. 13; Gaz. vol. 181; p. 445.
Corn-shock loader. A. Brandhorst. No. 1,014,043; Jan. 9; Sp. p. 2139; Gaz. vol. 174; p. 357.
Corn-shock-loading apparatus. W. G. Osborn. No. 1,027,356; May 21; Sp. p. 4997; Gaz. vol. 178; p. 842.
Corn shocker, cutter, and harvester. F. H. Kauffold. No. 1,032,683; July 16; Gaz. vol. 180; p. 718.
Corn-shredder feeder. C. Kibat. No. 1,028,739; June 4; Sp. p. 1450; Gaz. vol. 179; p. 224.
Corn stringer, Seed-. J. C. O'Roake. No. 1,034,287; July 30; Gaz. vol. 180; p. 1326.
Corn-thinner. M. O'Bannon. No. 1,044,806; Nov. 19; Gaz. vol. 184; p. 675.
Corn-tipper. J. Hunt. No. 1,049,095; Dec. 31; Gaz. vol. 185; p. 1277.
Corn-topping mechanism. Z. R. Lile and V. H. Davidson. No. 1,041,821; Oct. 22; Gaz. vol. 183; p. 828.
Cornstalk-cutter. W. C. Smith. No. 1,038,979; Sept. 17; Gaz. vol. 182; p. 679.
Cornstalk-cutter. A. P. Banscher. No. 1,048,641; Dec. 31; Gaz. vol. 185; p. 1119.
Corns and calli, Safety-trimmer for. J. A. Makarhof. No. 1,016,343; Feb. 6; Sp. p. 244; Gaz. vol. 175; p. 38.
Corner-bead. M. J. Doner. No. 1,015,381; Jan. 23; Sp. p. 5060; Gaz. vol. 174; p. 873.
Corner-bead clip. M. A. Hannon. No. 1,019,462; Mar. 5; Sp. p. 1055; Gaz. vol. 176; p. 155.
Corner-bracket. J. Courville. No. 1,045,815; Dec. 3; Gaz. vol. 185; p. 7.
Corner-post fastening. L. Sussman. No. 1,030,494; June 25; Sp. p. 5318; Gaz. vol. 179; p. 942.
Corner-post fastening. A. Wolf and A. Governale. No. 1,048,256; Dec. 24; Gaz. vol. 185; p. 947.
Corner-post for box-like structures. W. Zabel. No. 1,030,444; June 25; Sp. p. 5197; Gaz. vol. 179; p. 924.
Corner-protector. A. Priddle. No. 1,025,424; May 7; Sp. p. 694; Gaz. vol. 178; p. 110.
Corner-protector. A. Priddle. No. 1,038,195; Sept. 10; Gaz. vol. 182; p. 373.
Cornet. Z. A. Meredith. No. 1,040,372; Oct. 8; Gaz. vol. 183; p. 265.
Cornet, &c., mute. A. M. Elrod. No. 1,033,307; July 23; Gaz. vol. 180; p. 967.
Cornets and the like, Attachment for. J. J. Greenwood. No. 1,045,700; Nov. 26; Gaz. vol. 184; p. 1017.
Cornice-brake. H. Higgin. No. 1,029,012; June 11; Sp. p. 2058; Gaz. vol. 179; p. 354.
Corroding-pots, Bearer for. A. J. Meier. No. 1,017,627; Feb. 13; Sp. p. 3043; Gaz. vol. 175; p. 513.
Corrugated sheet. E. H. Angier. No. 1,025,443; May 7; Sp. p. 752; Gaz. vol. 178; p. 117.
Corrugating-machine, Rotary. C. N. Frey. No. 1,017,400; Feb. 13; Sp. p. 2587; Gaz. vol. 175; p. 438.
Corrugations in sheet material, Forming angular. D M. Livingston. No. 1,018,399; Feb. 20; Sp. p. 4783; Gaz. vol. 175; p. 818.
Corset. M. L. E. Scudder. No. 1,018,135; Feb. 20; Sp. p. 4236; Gaz. vol. 175; p. 728.
Corset. D. H. Warner. No. 1,019,865; Mar. 12; Sp. p. 1833; Gaz. vol. 176; p. 321.
Corset. C. H. Schopbach. No. 1,021,489; Mar. 26; Sp. p. 5301; Gaz. vol. 176; p. 955.
Corset. C. E. Woodworth. No. 1,022,116; Apr. 2; Sp. p. 770; Gaz. vol. 177; p. 123.
Corset. J. Siegel. No. 1,030,338; June 25; Sp. p. 4973; Gaz. vol. 179; p. 886.
Corset. E. F. Hume. No. 1,030,585; June 25; Sp. p. 5613; Gaz. vol. 179; p. 975.
Corset. A. Ray. No. 1,031,197; July 2; Gaz. vol. 180; p. 124.
Corset. C. H. Schopbach. No. 1,035,481; Aug. 13; Gaz. vol. 181; p. 396.
Corset. K. Luke. No. 1,041,311; Oct. 15; Gaz. vol. 183; p. 620.
Corset. E. Temple. No. 1,044,947; Nov. 19; Gaz. vol. 184; p. 723.
Corset, Apparel-. D. Kops. No. 1,019,487; Mar. 5; Sp. p. 1120; Gaz. vol. 176; p. 164.
Corset, Apparel-. D. Kops. No. 1,020,764; Mar. 19; Sp. p. 3753; Gaz. vol. 176; p. 657.
Corset, Apparel-. D. Kops. No. 1,030,190; June 18; Sp. p. 4612; Gaz. vol. 179; p. 794.
Corset, Apparel-. D. Kops. No. 1,032,146; July 9; Gaz. vol. 180; p. 488.
Corset, Apparel-. D. Kops. No. 1,042,126; Oct. 22; Gaz. vol. 183; p. 930.
Corset, Apparel-. D. Kops. No. 1,044,191; Nov. 12; Gaz. vol. 184; p. 431.
Corset, Apparel-. D. Kops. No. 1,047,083; Dec. 10; Gaz. vol. 185; p. 482.
Corset attachment. A. J. Hensley. No. 1,031,069; July 2; Gaz. vol. 180; p. 79.
Corset, Breast-supporting. H. F. Leporin. No. 1,026,326; May 14; Sp. p. 2727; Gaz. vol. 178; p. 456.
Corset-fastener. D. F. Crossman. No. 1,024,063; Apr. 23; Sp. p. 4914; Gaz. vol. 177; p. 871.
Corset-fastening. B. Sokolow. No. 1,047,582; Dec. 17; Gaz. vol. 185; p. 692.
Corset-fitting chart. S. L. Adler. No. 1,023,060; Apr. 9; Sp. p. 2781; Gaz. vol. 177; p. 473.
Corset front-clasp. J. M. Welsh. No. 1,041,925; Oct. 22; Gaz. vol. 183; p. 864.
Corset, Front-laced. V. A. Faegre. No. 1,043,003; Oct. 29; Gaz. vol. 183; p. 1258.
Corset hose-supporter, Apparel-. D. Kops. No. 1,042,125; Oct. 22; Gaz. vol. 183; p. 929.
Corset, Reducing-. H. Jacobs. No. 1,020,825; Mar. 19; Sp. p. 3881; Gaz. vol. 176; p. 678.
Corset-shield. B. K. Richardson. No. 1,023,174; Apr. 16; Sp. p. 3082; Gaz. vol. 177; p. 551.
Corset-stay. W. H. Flechsing. No. 1,038,107; Sept. 10; Gaz. vol. 182; p. 344.
Corset-steel reinforcer. L. W. Litch. No. 1,024,087; Apr. 23; Sp. p. 4965; Gaz. vol. 177; p. 879.
Corset-waist. V. L. Kaehler. No. 1,033,105; July 23; Gaz. vol. 180; p. 897.
Corsets and other like garments, Fastening device for. R. M. Hahn. No. 1,023,374; Apr. 16; Sp. p. 3462; Gaz. vol. 177; p. 618.
Corsets, Front-clasp cover and stay-pocket for. J. E. Doolittle. No. 1,014,697; Jan. 16; Sp. p. 3581; Gaz. vol. 174; p. 613.
Corsets, Front steels on. A. J. Lecoutre. No. 1,037,499; Sept. 3; Gaz. vol. 182; p. 110.
Costumer or clothes-rack. F. D. Pelletier. No. 1,042,262; Oct. 22; Gaz. vol. 183; p. 974.
Cot. Covered folding. R. Snyder. No. 1,023,048; Apr. 9; Sp. p. 2751; Gaz. vol. 177; p. 469.
Cot or bed. H. S. Jones. No. 1,017,763; Feb. 20; Sp. p. 3339; Gaz. vol. 175; p. 598.
Cot or couch. J. L. Tandy. No. 1,019,553; Mar. 5; Sp. p. 1235; Gaz. vol. 176; p. 185.
Cot or cradle, Convertible. B. Larson. No. 1,017,769; Feb. 20; Sp. p. 3346; Gaz. vol. 175; p. 599.
Cot, Portable. H. Mattes. No. 1,020,998; Mar. 26; Sp. p. 4239; Gaz. vol. 176; p. 787.
Cotter-pin. A. C. Campbell. No. 1,019,595; Mar. 5; Sp. p. 1317; Gaz. vol. 176; p. 198.
Cotton and like filaments, Mechanism for cleaning. G. Krall. No. 1,031,937; July 9; Gaz. vol. 180; p. 420.
Cotton, Apparatus for reclaiming waste. J. W. Shaughnessy. No. 1,037,340; Sept. 3; Gaz. vol. 182; p. 53.
Cotton-batting preparatory for pressing and baling, Apparatus for solidifying. C. Banister. No. 1,025,503; May 7; Sp. p. 885; Gaz. vol. 178; p. 138.
Cotton-boll, Preserved. W. W. Gayle. No. 1,038,562; Sept. 17; Gaz. vol. 182; p. 535.
Cotton-chopper. W. A. Pledger, Jr., and B. W. Wood. No. 1,013,951; Jan. 9; Sp. p. 1930; Gaz. vol. 174; p. 328.
Cotton-chopper. M. C. Tedder. No. 1,013,969; Jan. 9; Sp. p. 1969; Gaz. vol. 174; p. 334.
Cotton-chopper. C. Prickett. No. 1,015,341; Jan. 23; Sp. p. 4979; Gaz. vol. 174; p. 859.
Cotton-chopper. J. E. Williams. No. 1,015,369; Jan. 23; Sp. p. 5033; Gaz. vol. 174; p. 869.

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Cotton-chopper. G. Kinnick. No. 1,019,804; Mar. 12; Sp. p. 1719; Gaz. vol. 176; p. 300.
Cotton-chopper. J. H. Ayers. No. 1,021,228; Mar. 26; Sp. p. 4727; Gaz. vol. 176; p. 864.
Cotton-chopper. C. W. Leubner. No. 1,024,346; Apr. 23; Sp. p. 5518; Gaz. vol. 177; p. 967.
Cotton-chopper. J. C. Towell. No. 1,025,935; May 7; Sp. p. 1848; Gaz. vol. 178; p. 284.
Cotton-chopper. J. C. Cassidy. No. 1,027,033; May 21; Sp. p. 4320; Gaz. vol. 178; p. 734.
Cotton-chopper. L. E. Bowser. No. 1,027,687; May 28; Sp. p. 5688; Gaz. vol. 178; p. 991.
Cotton-chopper. L. I. Richards. No. 1,028,278; June 4; Sp. p. 472; Gaz. vol. 179; p. 69.
Cotton-chopper. J. N. Cain. No. 1,029,587; June 18; Sp. p. 3284; Gaz. vol. 179; p. 585.
Cotton-chopper. R. Hamilton. No. 1,031,546; July 2; Gaz. vol. 180; p. 242.
Cotton-chopper. R. R. Bryant. No. 1,033,150; July 23; Gaz. vol. 180; p. 913.
Cotton-chopper. G. W. Dowell, Jr. No. 1,038,540; Sept. 17; Gaz. vol. 182; p. 527.
Cotton-chopper. E. K. Moore. No. 1,039,431; Sept. 24; Gaz. vol. 182; p. 851.
Cotton-chopper. I. N. Mansfield. No. 1,042,361; Oct. 22; Gaz. vol. 183; p. 1006.
Cotton-chopper. P. Carlson. No. 1,043,201; Nov. 5; Gaz. vol. 184; p. 56.
Cotton-chopper. E. B. Noel. No. 1,043,456; Nov. 5; Gaz. vol. 184; p. 147.
Cotton-chopper. S. E. Parsley. No. 1,045,431; Nov. 26; Gaz. vol. 184; p. 920.
Cotton-chopper. W. A. Shotts. No. 1,046,876; Dec. 10; Gaz. vol. 185; p. 414.
Cotton chopper and cultivator. H. C. Bickers. No. 1,016,733; Feb. 6; Sp. p. 1124; Gaz. vol. 175; p. 173.
Cotton chopper and cultivator. J. W. McMillan. No. 1,025,761; May 7; Sp. p. 1439; Gaz. vol. 178; p. 226.
Cotton chopper and cultivator. D. L. Thornton. No. 1,028,402; June 4; Sp. p. 743; Gaz. vol. 179; p. 112.
Cotton chopper and cultivator. G. D. Fargason. No. 1,029,282; June 11; Sp. p. 2623; Gaz. vol. 179; p. 445.
Cotton-chopper attachment. C. W. Mathus. No. 1,024,799; Apr. 30; Sp. p. 6597; Gaz. vol. 177; p. 1160.
Cotton-chopper, Selective. A. De Weese. No. 1,033,789; July 30; Gaz. vol. 180; p. 1149.
Cotton-cleaner. S. Williams. No. 1,029,162; June 11; Sp. p. 2370; Gaz. vol. 179; p. 404.
Cotton cleaner, Seed-. H. Thompson. No. 1,024,297; Apr. 23; Sp. p. 5436; Gaz. vol. 177; p. 952.
Cotton-compress. F. Phelps. No. 1,038,430; Sept. 10; Gaz. vol. 182; p. 455.
Cotton-compress. M. M. Mode. No. 1,038,934; Sept. 17; Gaz. vol. 182; p. 665.
Cotton-condenser and lint-flue. W. P. Summerrow. No. 1,023,772; Apr. 16; Sp. p. 4224; Gaz. vol. 177; p. 742.
Cotton container, Waste-. L. P. Dorais. No. 1,026,081; May 14; Sp. p. 2200; Gaz. vol. 178; p. 371.
Cotton elevator and distributer. J. N. Ellenburg and A. Nelson. No. 1,037,223; Sept. 3; Gaz. vol. 182; p. 16.
Cotton extracting and cleaning machine. J. E. Mitchell. No. 1,030,913; July 2; Gaz. vol. 180; p. 21.
Cotton-feeder. S. D. Murray. No. 1,017,446; Feb. 13; Sp. p. 2699; Gaz. vol. 175; p. 455.
Cotton-gin. J. R. Fordyce. No. 1,019,240; Mar. 5; Sp. p. 515; Gaz. vol. 176; p. 82.
Cotton-gin. F. Phelps. No. 1,022,259; Apr. 2; Sp. p. 1069; Gaz. vol. 177; p. 170.
Cotton-gin. J. R. Fordyce. No. 1,028,701; June 4; Sp. p. 1352; Gaz. vol. 179; p. 211.
Cotton-gin. J. R. Fordyce. No. 1,031,702; July 9; Gaz. vol. 180; p. 338.
Cotton-gin. J. R. Fordyce. No. 1,031,703; July 9; Gaz. vol. 180; p. 339.
Cotton-gin. J. R. Fordyce. No. 1,039,111; Sept. 24; Gaz. vol. 182; p. 738.
Cotton-gin brush. S. F. Krupp. No. 1,018,327; Feb. 20; Sp. p. 4620; Gaz. vol. 175; p. 793.
Cotton-gin cleaner. M. W. Williamson. No. 1,045,923; Dec. 3; Gaz. vol. 185; p. 44.
Cotton-gin cylinder. J. T. Fuller. No. 1,015,759; Jan. 23; Sp. p. 5878; Gaz. vol. 174; p. 1002.
Cotton-gin cylinder. J. T. Fuller. No. 1,035,821; Aug. 13; Gaz. vol. 181; p. 510.
Cotton-gin, Huller. N. W. L. Brown. No. 1,043,800; Nov. 12; Gaz. vol. 184; p. 296.
Cotton-gin, Pneumatic. J. J. McNally. No. 1,033,718; July 23; Gaz. vol. 180; p. 1100.
Cotton-gin roller. F. A. Diffenderfer. No. 1,016,817; Feb. 6; Sp. p. 1299; Gaz. vol. 175; p. 199.
Cotton-gin, Roller. F. A. Diffenderfer. No. 1,018,302; Feb. 20; Sp. p. 4569; Gaz. vol. 175; p. 784.
Cotton-gin saw-cleaner. C. D. House. No. 1,031,555; July 2; Gaz. vol. 180; p. 246.
Cotton-gin, Vacuum. J. R. Fordyce. No. 1,031,701; July 9; Gaz. vol. 180; p. 338.
Cotton-gins and machines for burring wool, Roll for. G. E. U. Huckaby. No. 1,039,946; Oct. 1; Gaz. vol. 183; p. 91.
Cotton-gins and the like, Roll for. N. P. Pearse. No. 1,043,248; Nov. 5; Gaz. vol. 184; p. 72.
Cotton-machine. J. C. Conrad. No. 1,046,441; Dec. 10; Gaz. vol. 185; p. 261.
Cotton, Machine for removing leaves and trash from seed-. O. C. Houghton. No. 1,039,402; Sept. 24; Gaz. vol. 182; p. 841.
Cotton, Machine for separating leaf and seed. B. C. Calderwood. No. 1,030,228; June 18; Sp. p. 4696; Gaz. vol. 179; p. 808.
Cotton-mercerizing machine, Revolver. J. Kleinewefers. No. 1,038,152; Sept. 10; Gaz. vol. 182; p. 360.
Cotton-opening and other cotton-working machines, Evener for. J. C. Potter. No. 1,015,508; Jan. 23; Sp. p. 5336; Gaz. vol. 174; p. 915.
Cotton or drag sack protector. T. M. Elkins. No. 1,022,308; Apr. 2; Sp. p. 1155; Gaz. vol. 177; p. 185.
Cotton-picker. E. S. Scheble and E. Ascue. No. 1,020,116; Mar. 12; Sp. p. 2367; Gaz. vol. 176; p. 404.
Cotton-picker. I. E. Neer. No. 1,020,838; Mar. 19; Sp. p. 3904; Gaz. vol. 176; p. 682.
Cotton-picker. B. Worthington. No. 1,020,867; Mar. 19; Sp. p. 3972; Gaz. vol. 176; p. 692.
Cotton-picker. L. Willman. No. 1,027,455; May 28; Sp. p. 5209; Gaz. vol. 178; p. 914.
Cotton-picker. E. C. Cook. No. 1,032,115; July 9; Gaz. vol. 180; p. 478.
Cotton-picker. J. Meier. No. 1,032,560; July 16; Gaz. vol. 180; p. 674.
Cotton-picker. W. D. Ball and J. G. Bradburn. No. 1,035,300; Aug. 13; Gaz. vol. 181; p. 333.
Cotton-picker. H. Skaer. No. 1,036,357; Aug. 20; Gaz. vol. 181; p. 735.
Cotton-picker. F. P. McCoig. No. 1,038,925; Sept. 17; Gaz. vol. 182; p. 663.
Cotton-picker. B. C. White and A. Campbell. No. 1,044,611; Nov. 19; Gaz. vol. 184; p. 607.
Cotton-picker. G. Butenschoen. No. 1,047,164; Dec. 17; Gaz. vol. 185: p. 542.
Cotton picker or harvester. M. Prior. No. 1,038,956; Sept. 17; Gaz. vol. 182; p. 672.
Cotton-picker, Pneumatic. E. Murray. No. 1,024,455; Apr 23; Sp. p. 5766; Gaz. vol. 177; p. 1003.
Cotton-pickers' sacks, Attachment for. T. P. Reed. No. 1,022,699; Apr. 9; Sp. p. 2019; Gaz. vol. 177; p. 349.
Cotton picking and cleaning machine. B. Johnson. No. 1,022,142; Apr. 2; Sp. p. 827; Gaz. vol. 177; p. 132.
Cotton-picking apparatus. A. P. Albert. No. 1,031,902; July 9; Gaz. vol. 180; p. 408.
Cotton-press. C. J. Luce. No. 1,014,764; Jan. 16; Sp. p. 3729; Gaz. vol. 174; p. 635.
Cotton-press. C. J. Luce. No. 1,014,765; Jan. 16; Sp. p. 3730; Gaz. vol. 174; p. 635.
Cotton-press tramper. N. W. L. Brown. No. 1,016,396; Feb. 6; Sp. p. 361; Gaz. vol. 175; p. 57.
Cotton-scraper-standard brace. H. F. Carter. No. 1,016,814; Feb. 6; Sp. p. 1294; Gaz. vol. 175; p. 198.
Cotton separator, Seed-. J. J. McNally. No. 1,033,719; July 23; Gaz. vol. 180; p. 1101.
Cotton-stalk cutter. V. Gieber. No. 1,031,641; July 2; Gaz. vol. 180; p. 274.
Cotton-stalk puller. J. B. Marshel. No. 1,042,704; Oct. 29; Gaz. vol. 183; p. 1156.
Cotton-thinning machine. W. J. Brawner. No. 1,032,656; July 16; Gaz. vol. 180; p. 708.
Cotton-waste, Renovating. J. Kauffmann. No. 1,026,267; May 14; Sp. p. 2594; Gaz. vol. 178; p. 434.
Couch. J. Hoey. No. 1,014,877; Jan. 16; Sp. p. 3993; Gaz. vol. 174; p. 675.
Couch. P. E. Ennis. No. 1,045,960; Dec. 3; Gaz. vol. 185; p. 56.
Couch and bed, Convertible. L. B. Jeffcott. No. 1,025,745; May 7; Sp. p. 1408; Gaz. vol. 178; p. 220.
Couch and folding bed, Combined. E. C. Fisher. No. 1,037,227; Sept. 3; Gaz. vol. 182; p. 17.
Couch, Box-. B. Quareles. No. 1,045,181; Nov. 26; Gaz. vol. 184; p. 832.
Couch, Extension-. J. A. Cobb. No. 1,048,943; Dec. 31; Gaz. vol. 185; p. 1224.
Couch or bed, Folding. J. Schwartzman. No. 1,042,486; Oct. 29; Gaz. vol. 183; p. 1079.
Counter. G. A. Lees. No. 1,019,058; Mar. 5; Sp. p. 95; Gaz. vol. 176; p. 19.
Counter. W. B. Pearson and E. R. Seward. No. 1,027,065; May 21; Sp. p. 4401; Gaz. vol. 178; p. 745.
Counter. C. H. Veeder. No. 1,039,227; Sept. 24; Gaz. vol. 182; p. 779.
Counter. J. G. Biggar. No. 1,039,485; Sept. 24; Gaz. vol. 182; p. 870.
Counter. C. H. Veeder. No. 1,044,710; Nov. 19; Gaz. vol. 184; p. 642.
Counter and heel support. S. Liolios. No. 1,044,548; Nov. 19; Gaz. vol. 184; p. 584.
Counter-forming machine. A. F. Jones. No. 1,014,226; Jan. 9; Sp. p. 2515; Gaz. vol. 174; p. 422.
Counter, Lunch-. B. Stevenson. No. 1,014,186; Jan. 9; Sp. p. 2426; Gaz. vol. 174; p. 407.
Counter Revolution-. C. P. Day. No. 1,046,992; Dec. 10; Gaz. vol. 185; p. 451.
Counter, Sanitary. G. V. Maser and J. A. Gebhart. No. 1,032,013; July 9; Gaz. vol. 180; p. 445.

Alphabetical list of inventions—Continued.

Counter, Setback-. S. W. Potts. No. 1,015,710; Jan. 23; Sp. p. 5779; Gaz. vol. 174; p. 985.
Counter-stiffener and arch-support, Combined. F. Beebe. No. 1,017,730; Feb. 20; Sp. p. 3265; Gaz. vol. 175; p. 585.
Counter, Store-. J. S. Mitchell and S. M. Colburn. No. 1,035,223; Aug. 13; Gaz. vol. 181; p. 305.
Counters or the like, Attachment for. F. W. Sterling. No. 1,036,367; Aug. 20; Gaz. vol. 181; p. 738.
Counterbore, Interchangeable. F. S. Walters. No. 1,016,116; Jan. 30: Sp. p. 6639; Gaz. vol. 174; p. 1154.
Counterweight, Compensating. L. Atwood. No. 1,047,143; Dec. 17; Gaz. vol. 185; p. 534.
Counting and packaging machine, Coin. E. T. McKaig. No. 1,023,162; Apr. 16; Sp. p. 3048; Gaz. vol. 177; p. 547.
Counting apparatus, Loaded-truck-. R. McGahey. No. 1,013,797; Jan. 2; Sp. p. 1546; Gaz. vol. 174; p. 246.
Counting apparatus, Money-. F. E. Bourck. No. 1,020,397; Mar. 19; Sp. p. 2939; Gaz. vol. 176; p. 534.
Counting-machine. R. A. Melton. No. 1,039,168; Sept. 24; Gaz. vol. 182; p. 757.
Counting-machine. I. Larsen. No. 1,039,761; Oct. 1; Gaz. vol. 183; p. 31.
Counting-machine. A. von Barth. No. 1,046,428; Dec. 10; Gaz. vol. 185; p. 256.
Counting-machine. W. B. Moon. No. 1,046,835; Dec. 10; Gaz. vol. 185; p. 401.
Counting machine, Pill and tablet. C. Goulding. No. 1,042,785; Oct. 29; Gaz. vol. 183; p. 1184.
Counting mechanism. J. Froehlich. No. 1,042,424; Oct. 29; Gaz. vol. 183; p. 1057.
Counting of money, dealing cards, turning leaves, &c., Device for facilitating. G. H. Rives. No. 1,016,362; Feb. 6; Sp. p. 276; Gaz. vol. 175; p. 43.
Counting of notes, dealing of cards, &c., Device for facilitating the. G. H. Rives. No. 1,040,761; Oct. 8; Gaz. vol. 183; p. 402.
Coupling: *See* Air-coupling; Air-brake coupling; Air-brake-hose coupling; Automatic coupling; Bolt-coupling; Car-coupling; Car automatic coupling; Car-heating coupling; Carriage-top bow-coupling; Chain or cord coupling; Clutch-coupling; Collar-coupling; Conductor-coupling; Electric coupling; Electric-fixture coupling; Electrical coupling; Engine-coupling; Flexible coupling; Friction-coupling; Hay-loader coupling; Hose-coupling; Hose and pipe coupling; Hose-pipe coupling; Joint-coupling; Locomotive pilot-coupling; Pipe-coupling; Pipe and cable coupling; Pipe and like coupling; Pipe automatic coupling; Pipe-line coupling; Pipe or conduit coupling; Pipe or hose coupling; Pipe-rig coupling; Pipe threadless coupling; Pull-line coupling; Pump-coupling; Pump-rod coupling; Railway-coupling; Railway-rail coupling; Rod-coupling; Rolling-mill spindle-coupling; Rope or cord coupling; Screw-joint coupling; Shaft-coupling; Shaft and tongue coupling; Shafting-coupling; Thill-coupling; Tool-coupling; Trace-coupling; Trip-coupling; Universal coupling; Water and shot feed coupling; Windmill-coupling; Windmill and engine coupling; Wire-coupling; Yoke-end coupling.
Coupling. C. B. Gracey. No. 1,013,598; Jan. 2; Sp. p. 1097; Gaz. vol. 174; p. 177.
Coupling. E. H. Schmidt. No. 1,017,630; Feb. 13; Sp. p. 3052; Gaz. vol. 175; p. 514.
Coupling. J. O. Martin and H. W. Scheiler. No. 1,020,431; Mar. 19; Sp. p. 3017; Gaz. vol. 176; p. 547.
Coupling. W. McConway, Jr. No. 1,021,418; Mar. 26; Sp. p. 5147; Gaz. vol. 176; p. 931.
Coupling. I. H. Milliken. No. 1,021,423; Mar. 26; Sp. p. 5156; Gaz. vol. 176; p. 933.
Coupling. P. J. Gaffney. No. 1,021,833; Apr. 2; Sp. p. 184; Gaz. vol. 177; p. 30.
Coupling. D. F. Langell. No. 1,022,485; Apr. 9; Sp. p. 1542; Gaz. vol. 177; p. 277.
Coupling. W. M. Smith. No. 1,026,716; May 21; Sp. p. 3574; Gaz. vol. 178; p. 623.
Coupling. C. Mendel. No. 1,027,267; May 21; Sp. p. 4815; Gaz. vol. 178; p. 812.
Coupling. C. E. Wright. No. 1,027,579; May 28; Sp. p. 5470; Gaz. vol. 178; p. 957.
Coupling. S. E. Metzger. No. 1,033,187; July 23; Gaz. vol. 180; p. 926.
Coupling. C. C. Hogen. No. 1,035,793; Aug. 13; Gaz. vol. 181; p. 499.
Coupling. H. Taylor and S. L. Hutchins. No. 1,040,964; Oct. 8; Gaz. vol. 183; p. 467.
Coupling. A. O. Gale and E. J. Iverson. No. 1,041,712; Oct. 15; Gaz. vol. 183; p. 752.
Coupling. H. Stewart. No. 1,044,590; Nov. 19; Gaz. vol. 184; p. 600.
Coupling. L. A. Scribner. No. 1,045,159; Nov. 26; Gaz. vol. 184; p. 839.
Coupling. M. Preuss. No. 1,046,328; Dec. 3; Gaz. vol. 185; p. 184.
Coupling and clamp, Combined. A. Sobey. No. 1,038,012; Sept. 10; Gaz. vol. 182; p. 314.
Coupling and steering mechanism, Combined. T. V. Buckwalter. No. 1,024,675; Apr. 30; Sp. p. 6332; Gaz. vol. 177; p. 1116.
Coupling and yoke. W. Blackmore. No. 1,022,652; Apr. 9; Sp. p. 1905; Gaz. vol. 177; p. 332.
Coupling attaching and testing machine. J. P. Buckley. No. 1,022,720; Apr. 9; Sp. p. 2083; Gaz. vol. 177; p. 358.
Coupling-controlling mechanism. H. C. Buhoup. No. 1,021,446; Mar. 26; Sp. p. 5201; Gaz. vol. 176; p. 941.
Coupling device. D. E. Engle. No. 1,018,556; Feb. 27; Sp. p. 5209; Gaz. vol. 175; p. 905.
Coupling device. S. F. Leslie. No. 1,027,861; May 28; Sp. p. 6089; Gaz. vol. 178; p. 1049.
Coupling device. S. C. Betts and A. Boucher. No. 1,041,415; Oct. 15; Gaz. vol. 183; p. 655.
Coupling device, Automatic. F. J. Fitch and G. Bausback. No. 1,034,352; July 30; Gaz. vol. 180; p. 1349.
Coupling device, Equalizing trailing. L. Almgren. No. 1,020,393; Mar. 19; Sp. p. 2934; Gaz. vol. 176; p. 533.
Coupling device or clasp. C. A. Gifford. No. 1,024,566; Apr. 30; Sp. p. 6095; Gaz. vol. 177; p. 1078.
Coupling-lock. E. E. Gold. No. 1,021,982; Apr. 2; Sp. p. 495; Gaz. vol. 177; p. 79.
Coupling-lock. E. E. Gold. No. 1,044,166; Nov. 12; Gaz. vol. 184; p. 422.
Coupling of screw-propellers, screw-ventilators, fly-wheels, &c. H. Reissner. No. 1,025,589; May 7; Sp. p. 1086; Gaz. vol. 178; p. 168.
Coupling or union. W. I. Twombly. No. 1,022,344; Apr. 2; Sp. p. 1235; Gaz. vol. 177; p. 198.
Coupling-release rigging. H. C. Buhoup. No. 1,021,914; Apr. 2; Sp. p. 340; Gaz. vol. 177; p. 57.
Couplings, Machine for tapping. C. M. Spencer. No. 1,045,203; Nov. 26; Gaz. vol. 184; p. 842.
Coupon certificate of deposit. C. H. Davis. No. 1,041,041; Oct. 15; Gaz. vol. 183; p. 528.
Coupon-cutting machine, Electrically-operated. G. A. Hobart. No. 1,042,436; Oct. 29; Gaz. vol. 183; p. 1062.
Cover. A. Johnson. No. 1,038,591; Sept. 17; Gaz. vol. 182; p. 545.
Cover and lock therefor. A. Udkler and J. A. J. Snartemo. No. 1,033,496; July 23; Gaz. vol. 180; p. 1028.
Cover-fastener. E. W. Stull. No. 1,047,588; Dec. 17; Gaz. vol. 185; p. 694.
Cover fastening and releasing device. W. H. Smith. No. 1,029,405; June 11; Sp. p. 2922; Gaz. vol. 179; p. 488.
Cover, Folding. A. J. Mahler. No. 1,036,662; Aug. 27; Gaz. vol. 181; p. 872.
Cover for metallic receptacles. J. Dahlquist and L. Lucas. No. 1,031,624; July 2; Gaz. vol. 180; p. 268.
Cover for perishable articles, Counterbalanced. D. S. Crofoot. No. 1,031,052; July 2; Gaz. vol. 180; p. 73.
Cover handle, Utensil-. A. J. Smith. No. 1,047,318; Dec. 17; Gaz. vol. 185; p. 599.
Cover retainer, Receptacle-. P. A. Lawrence. No. 1,026,096; May 14; Sp. p. 2229; Gaz. vol. 178; p. 376.
Cover-retaining devices to receptacles, Machine for applying. H. N. Mann. No. 1,015,047; Jan. 16; Sp. p. 4364; Gaz. vol. 174; p. 732.
Cover-retaining means, Receptacle-. L. F. Ryan No. 1,017,324; Feb. 13; Sp. p. 2429; Gaz. vol. 175; p. 412.
Cover, Utensil-. H. E. Holmes. No. 1,025,090; Apr. 30; Sp. p. 7183; Gaz. vol. 177; p. 1258.
Cover, Vessel-. O. Kampfe. No. 1,039,140; Sept. 24; Gaz. vol. 182; p. 748.
Covers, Combined protective shield and attaching device for receptacle-. J. Schaffer. No. 1,038,001; Sept. 10; Gaz. vol. 182; p. 310.
Covering, Acid, alkali, and water resisting. G. D. Crabbs. No. 1,034,981; Aug. 6; Gaz. vol. 181; p. 194.
Covering and making the same, Decorated. J. N. Wiggin. No. 1,044,323; Nov. 12; Gaz. vol. 184; p. 477.
Covering or re-covering surfaces. G. Duensser. No. 1,037,743; Sept. 3; Gaz. vol. 182; p. 189.
Covering, Weatherproof. L. T. Lindley. No. 1,040,706; Oct. 8; Gaz. vol. 183; p. 385.
Coverings, Apparatus for constructing. W. M. Janpole. No. 1,022,367; Apr. 2; Sp. p. 1278; Gaz. vol. 177; p. 206.
Cow-holder. S. H. Moss. No. 1,047,104; Dec. 10; Gaz. vol. 185; p. 490.
Cow-tail holder. A. L. Bartlett. No. 1,013,362; Jan. 2; Sp. p. 602; Gaz. vol. 174; p. 96.
Cow-tail holder. O. Nelsson. No. 1,023,588; Apr. 16; Sp. p. 3901; Gaz. vol. 177; p. 687.
Cow-tail holder. S. C. Beardsley. No. 1,026,378; May 14; Sp. p. 2854; Gaz. vol. 178; p. 473.
Cow-tail holder. F. E. Conant. No. 1,030,462; June 25; Sp. p. 5234; Gaz. vol. 179; p. 931.
Cow-tail holder. W. M. Underhill. No. 1,044,302; Nov. 12; Gaz. vol. 184; p. 469.
Cows from kicking, Device to prevent. B. M. Sharit. No. 1,014,910; Jan. 16; Sp. p. 4058; Gaz. vol. 174; p. 686.
Crabbing-machine. H. A. Fretts. No. 1,030,656; June 25; Sp. p. 5856; Gaz. vol. 179; p. 1002.
Cracker-can. A. L. Plotner. No. 1,035,635; Aug. 13; Gaz. vol. 181; p. 448.
Cracker-treating machine. O. B. Gilman. No. 1,019,630; Mar. 5; Sp. p. 1382; Gaz. vol. 176; p. 211.
Cradle. P. J. Reinert. No. 1,014,848; Jan. 16; Sp. p. 3927; Gaz. vol. 174; p. 665.

Alphabetical list of inventions—Continued.

Cradle and crib, Combined. L. G. Houser. No. 1,046,189; Dec. 3; Gaz. vol. 185; p. 134.
Cradle for rock-drills and other machines. W. C. Stephens. No. 1,047,586; Dec. 17; Gaz. vol. 185; p. 693.
Cradle, Swinging. J. E. Burge. No. 1,028,186; June 4; Sp. p. 291; Gaz. vol. 179; p. 37.
Cranberry-grader. L. A. Hayden. No. 1,021,311; Mar. 26; Sp. p. 4887; Gaz. vol. 176; p. 893.
Crane. G. A. True. No. 1,017,824; Feb. 20; Sp. p. 3516; Gaz. vol. 175; p. 618.
Crane. W. J. Muncaster. No. 1,023,438; Apr. 16; Sp. p. 3589; Gaz. vol. 177; p. 638.
Crane. P. R. Davison. No. 1,023,507; Apr. 16; Sp. p. 3730; Gaz. vol. 177; p. 660.
Crane and derrick. O. N. Gardner. No. 1,041,266; Oct. 15; Gaz. vol. 183; p. 605.
Crane, Balanced safety-. G. B. Garst. No. 1,048,520; Dec. 31; Gaz. vol. 185; p. 1077.
Crane controller, Electric-. E. M. Holme. No. 1,017,150; Feb. 13; Sp. p. 2053; Gaz. vol. 175; p. 352.
Crane-hook-locking attachment. A. Johnson. No. 1,046,795; Dec. 10; Gaz. vol. 185; p. 388.
Crane-operating mechanism. J. P. Dowd. No. 1,024,836; Apr. 30; Sp. p. 6670; Gaz. vol. 177; p. 1174.
Crane or davit. A. P. Lundin. No. 1,034,128; July 30; Gaz. vol. 180; p. 1270.
Crane, Safety-. W. F. Klaus. No. 1,016,417; Feb. 6; Sp. p. 404; Gaz. vol. 175; p. 63.
Crane, Street-lighting. F. E. Wilkinson. No. 1,036,393; Aug. 20; Gaz. vol. 181; p. 748.
Crane, Teeming-. N. Franzen and J. A. Bechtel. No. 1,021,457; Mar. 26; Sp. p. 5226; Gaz. vol. 176; p. 945.
Cranes and hoists, Load-brake for. C. H. Tucker. No. 1,031,302; July 2; Gaz. vol. 180; p. 160.
Crank-case. R. Huff. No. 1,024,579; Apr. 30; Sp. p. 6118; Gaz. vol. 177; p. 1083.
Crank manufacture. T. Mercer. No. 1,022,434; Apr. 9; Sp. p. 1448; Gaz. vol. 177; p. 259.
Crank mechanism. E. H. Miller. No. 1,024,139; Apr. 23; Sp. p. 5102; Gaz. vol. 177; p. 897.
Crank-pin connection. E. C. Bennett and C. J. Hillard. No. 1,048,485; Dec. 31; Gaz. vol. 185; p. 1064.
Crank-pin couplings, Forming universal. W. L. Caswell. No. 1,031,982; July 9; Gaz. vol. 180; p. 434.
Crank-pin turner, Portable. L. G. Schweinebraten. No. 1,024,367; Apr. 23; Sp. p. 5554; Gaz. vol. 177; p. 974.
Crank-pin-turning device. E. W. Louder. No. 1,042,578; Oct. 29; Gaz. vol. 183; p. 1112.
Crank-pin-turning machine. J. Kessler and J. Weiss. No. 1,015,188; Jan. 16; Sp. p. 4627; Gaz. vol. 174; p. 780.
Crank-pins on engine-shafts, Device for turning. L. W. Witry. No. 1,045,239; Nov. 26; Gaz. vol. 184; p. 854.
Crank-shaft. H. L. Arnold. No. 1,024,817; Apr. 30; Sp. p. 6628; Gaz. vol. 177; p. 1166.
Cranking device. P. Christensen. No. 1,037,129; Aug. 27; Gaz. vol. 181; p. 1027.
Cranking device, Automatic. W. H. Withers and C. T. Harris. No. 1,027,957; May 28; Sp. p. 6289; Gaz. vol. 178; p. 1081.
Cranking device, Safety. R. C. Hilton. No. 1,013,878; Jan. 9; Sp. p. 1766; Gaz. vol. 174; p. 302.
Crape hanger, Door-. M. T. Miller. No. 1,022,963; Apr. 9; Sp. p. 2593; Gaz. vol. 177; p. 440.
Crape-holder. J. J. Klein. No. 1,018,326; Feb. 20; Sp. p. 4618; Gaz. vol. 175; p. 793.
Crate. W. F. Buschardt. No. 1,014,445; Jan. 9; Sp. p. 3006; Gaz. vol. 174; p. 498.
Crate. A. A. Le Doyen. No. 1,019,665; Mar. 5; Sp. p. 1441; Gaz. vol. 176; p. 222.
Crate. W. Beehler. No. 1,022,814; Apr. 9; Sp. p. 2277; Gaz. vol. 177; p. 389.
Crate. J. Wahl. No. 1,027,631; May 28; Sp. p. 5561; Gaz. vol. 178; p. 972.
Crate. L. B. Kauffmann. No. 1,030,845; June 25; Sp. p. 6422; Gaz. vol. 179; p. 1070.
Crate. W. Nelson. No. 1,033,724; July 23; Gaz. vol. 180; p. 1102.
Crate. H. M. Roseboom. No. 1,040,580; Oct. 8; Gaz. vol. 183; p. 338.
Crate. J. S. De Long. No. 1,041,751; Oct. 22; Gaz. vol. 183; p. 802.
Crate, Collapsible. A. List and W. A. De Maine. No. 1,023,577; Apr. 16; Sp. p. 3879; Gaz. vol. 177; p. 683.
Crate, Collapsible. G. W. Craycraft. No. 1,034,982; Aug. 6; Gaz. vol. 181; p. 194.
Crate. Collapsible ventilated. L. A. Williams. No. 1,029,161; June 11; Sp. p. 2368; Gaz. vol. 179; p. 403.
Crate-corner lock. J. Mathy. No. 1,038,923; Sept. 17; Gaz. vol. 182; p. 662.
Crate, Foldable shipping-. M. Shepard. No. 1,039,452; Sept. 24; Gaz. vol. 182; p. 858.
Crate, Folding. J. H. Farmer. No. 1,015,430; Jan. 23; Sp. p. 5169; Gaz. vol. 174; p. 889.
Crate, Folding. M. Rinner. No. 1,016,523; Feb. 6; Sp. p. 675; Gaz. vol. 175; p. 101.
Crate, Folding. W. Malchow. No. 1,017,573; Feb. 13; Sp. p. 2942; Gaz. vol. 175; p. 497.
Crate, Folding. C. F. Miesen. No. 1,018,254; Feb. 20; Sp. p. 4483; Gaz. vol. 175; p. 769.
Crate, Folding. E. O. Renstrom. No. 1,018,521; Feb. 27; Sp. p. 5118; Gaz. vol. 175; p. 892.
Crate, Folding. G. M. Brown. No. 1,036,555; Aug. 27; Gaz. vol. 181; p. 835.
Crate, Folding. E. L. and A. F. Meyer. No. 1,037,162; Aug. 27; Gaz. vol. 181; p. 1037.
Crate, Folding. R. L. Pickering. No. 1,040,403; Oct. 8; Gaz. vol. 183; p. 276.
Crate, Folding. E. C. Hazel and H. Haase. No. 1,041,786; Oct. 22; Gaz. vol. 183; p. 815.
Crate, Folding. J. P. Smith. No. 1,042,164; Oct. 22; Gaz. vol. 183; p. 942.
Crate, Folding. J. Wahl. No. 1,045,479; Nov. 26; Gaz. vol. 184; p. 938.
Crate, Folding. A. O. Hubbard. No. 1,046,297; Dec. 3; Gaz. vol. 185; p. 174.
Crate, Folding fowl-. O. F. Hutchison. No. 1,036,850; Aug. 27; Gaz. vol. 181; p. 933.
Crate, Folding shipping-. R. Priest. No. 1,020,447; Mar. 19; Sp. p. 3047; Gaz. vol. 176; p. 552.
Crate for carrying bottles. C. J. Franks. No. 1,049,295; Dec. 31; Gaz. vol. 185; p. 1344.
Crate, Knockdown. A. V. Baumeister. No. 1,028,094; June 4; Sp. p. 2; Gaz. vol. 179; p. 3.
Crate, Knockdown. R. Douglass. No. 1,041,755; Oct. 22; Gaz. vol. 183; p. 803.
Crate, Knockdown shipping-. C. H. Matthews. No. 1,040,369; Oct. 8; Gaz. vol. 183; p. 264.
Crate, Knockdown shipping-. W. A. Safley. No. 1,044,251; Nov. 12; Gaz. vol. 184; p. 452.
Crate or box, Folding shipping. F. S. McKeever and H. C. Schuck. No. 1,013,196; Jan. 2; Sp. p. 221; Gaz. vol. 174; p. 37.
Crate, Poultry-. G. D. Ross. No. 1,027,771; May 28; Sp. p. 5843; Gaz. vol. 178; p. 1018.
Crate, Poultry-. N. M. Patton. No. 1,033,729; July 23; Gaz. vol. 180; p. 1104.
Crate, Sheet-metal folding shipping-. J. A. Conrad. No. 1,046,979; Dec. 10; Gaz. vol. 185; p. 448.
Crate, Shipping-. N. Jensen. No. 1,015,683; Jan. 23; Sp. p. 5733; Gaz. vol. 174; p. 976.
Crate, Shipping-. G. E. Hallaron. No. 1,017,539; Feb. 13; Sp. p. 2882; Gaz. vol. 175; p. 486.
Crates, Retainer for partitions of. G. C. D. Miller. No. 1,048,566; Dec. 31; Gaz. vol. 185; p. 1092.
Cravat holder and former. G. F. Hall. No. 1,042,220; Oct. 22; Gaz. vol. 183; p. 960.
Cream-dipper. L. Mansfield. No. 1,013,503; Jan. 2; Sp. p. 903; Gaz. vol. 174; p. 144.
Cream of tartar, Manufacture of. J. M. Perigny. No. 1,023,528; Apr. 16; Sp. p. 3769; Gaz. vol. 177; p. 666.
Cream, Producing toilet. W. H. Roystone. No. 1,017,595; Feb. 13; Sp. p. 2981; Gaz. vol. 175; p. 503.
Cream-ripener. C. C. Plummer. No. 1,036,704; Aug. 27; Gaz. vol. 181; p. 885.
Cream-ripener. D. E. Virtue. No. 1,046,908; Dec. 10; Gaz. vol. 185; p. 425.
Cream-separator. J. W. Hudlow and J. M. Chapman. No. 1,013,164; Jan. 2; Sp. p. 154; Gaz. vol. 174; p. 26.
Cream-separator. E. R. Bailey. No. 1,029,785; June 18; Sp. p. 3725; Gaz. vol. 179; p. 656.
Cream-separator and churn. A. Fay. No. 1,020,814; Mar. 19; Sp. p. 3845; Gaz. vol. 176; p. 674.
Cream-separator and churn. A. Fay. No. 1,021,401; Mar. 26; Sp. p. 5114; Gaz. vol. 176; p. 925.
Cream-separator, Centrifugal. W. P. Barclay. No. 1,020,248; Mar. 12; Sp. p. 2646; Gaz. vol. 176; p. 449.
Cream-separator-section-cleaning apparatus. P. L. Kimball. No. 1,043,606; Nov. 5; Gaz. vol. 184; p. 199.
Cream-separators, Adjustable cream-exit for centrifugal. G. M. Anderson. No. 1,016,536; Feb. 6; Sp. p. 705; Gaz. vol. 175; p. 105.
Cream-separators, Cream-exit for centrifugal. C. H. Hackett and T. W. Morgan. No. 1,015,018; Jan. 16; Sp. p. 4301; Gaz. vol. 174; p. 724.
Cream-separators, Spacer for liner-plates of centrifugal. G. M. Anderson. No. 1,013,834; Jan. 2; Sp. p. 1621; Gaz. vol. 174; p. 259.
Creasing-iron. F. E. Foster. No. 1,014,698; Jan. 16; Sp. p. 3582; Gaz. vol. 174; p. 613.
Creel. J. P. Cronin. No. 1,016,403; Feb. 6; Sp. p. 376; Gaz. vol. 175; p. 59.
Creel. S. W. Wardwell. No. 1,022,283; Apr. 2; Sp. p. 1117; Gaz. vol. 177; p. 178.
Creel, Metallic. C. A. Allen. No. 1,026,646; May 21; Sp. p. 3429; Gaz. vol. 178; p. 599.
Creeping and antiskidding device. W. S. Craig. No. 1,015,545; Jan. 23; Sp. p. 5414; Gaz. vol. 174; p. 927.
Crib, Disappearing. M. X. Corbin. No. 1,035,539; Aug. 13; Gaz. vol. 181; p. 416.
Cribs, &c., Baby-holder attachment for. M. J. Ross. No. 1,022,507; Apr. 9; Sp. p. 1589; Gaz. vol. 177; p. 284.
Cribs, Display-fixture for children's. H. M. Mannheimer and F. P. Green. No. 1,033,111; July 23; Gaz. vol. 180; p. 899.
Crimping appliance. W. H. Addison. No. 1,028,654; June 4; Sp. p. 1273; Gaz. vol. 179; p. 196.
Crimping-machine. L. F. Weber and P. Beier. No. 1,048,612; Dec. 31; Gaz. vol. 185; p. 1108.

Alphabetical list of inventions—Continued.

Crimping-machines, Roller spinning-disk for. G. W. Beadle. No. 1,038,715; Sept. 17; Gaz. vol. 182; p. 588.
Crochet-machine. J. M. Merrow. No. 1,045,163; Nov. 26; Gaz. vol. 184; p. 826.
Cross-arm. L. L. Crabtree and T. C. Ripley. No. 1,047,176; Dec. 17; Gaz. vol. 185; p. 545.
Cross-bearer. J. M. Ames. No. 1,021,909; Apr. 2; Sp. p. 329; Gaz. vol. 177; p. 55.
Cross, Folding. H. T. Walrow. No. 1,032,257; July 9; Gaz. vol. 180; p. 527.
Cross-head. M. D. Joyner. No. 1,037,633; Sept. 3; Gaz. vol. 182; p. 152.
Cross-joint between flat iron bars. G. Czimeg. No. 1,022,387; Apr. 2; Sp. p. 1317; Gaz. vol. 177; p. 213.
Cross-slide-operating means, Automatic. J. C. Potter. No. 1,034,506; Aug. 6; Gaz. vol. 181; p. 36.
Cross-tie. L. C. Mooney. No. 1,016,845; Feb. 6; Sp. p. 1350; Gaz. vol. 175; p. 208.
Cross-tie. J. H. Collins. No. 1,020,886; Mar. 19; Sp. p. 3999; Gaz. vol. 176; p. 697.
Cross-tie. W. G. Chipley. No. 1,030,230; June 18; Sp. p. 4700; Gaz. vol. 179; p. 808.
Cross-tie. J. H. Collins. No. 1,032,045; July 9; Gaz. vol. 180; p. 455.
Cross-tie. J. T. Andrew. No. 1,033,775; July 30; Gaz. vol. 180; p. 1145.
Cross-tie. W. G. Chipley. No. 1,040,145; Oct. 1; Gaz. vol. 183; p. 159.
Cross-tie. W. G. Chipley. No. 1,040,146; Oct. 1; Gaz. vol. 183; p. 160.
Cross-tie. J. T. Andrew. No. 1,047,876; Dec. 17; Gaz. vol. 185; p. 794.
Cross-tie and rail-joint, Combination flexible. G. W. Ayres. No. 1,048,640; Dec. 31; Gaz. vol. 185; p. 1118.
Cross-tie, Metal. D. R. Austin. No. 1,040,113; Oct. 1; Gaz. vol. 183; p. 148.
Cross-tie, Steel. W. M. Scott. No. 1,039,598; Sept. 24; Gaz. vol. 182; p. 910.
Crossing-gate. I. C. Johnson. No. 1,024,899; Apr. 30; Sp. p. 6798; Gaz. vol. 177; p. 1195.
Crossing-signal. T. A. Grist. No. 1,016,919; Feb. 6; Sp. p. 1515; Gaz. vol. 175; p. 234.
Crossover-switch. F. Fink and L. F. Rex. No. 1,039,041; Sept. 17; Gaz. vol. 182; p. 697.
Crosswalk. H. J. Fixmer. No. 1,043,310; Nov. 5; Gaz. vol. 184; p. 95.
Croze-cutting tool. H. Schneider. No. 1,017,329; Feb. 13; Sp. p. 2437; Gaz. vol. 175; p. 414.
Crucible-cover. T. McGrath. No. 1,029,815; June 18; Sp. p. 3801; Gaz. vol. 179; p. 667.
Crucible-furnace. G. E. Behrens. No. 1,013,472; Jan. 2; Sp. p. 838; Gaz. vol. 174; p. 134.
Crucible-furnace. D. R. Steele. No. 1,029,090; June 11; Sp. p. 2224; Gaz. vol. 179; p. 380.
Crucible-furnace. W. S. Rockwell. No. 1,042,825; Oct. 29; Gaz. vol. 183; p. 1198.
Crucible-furnace. W. Buess. No. 1,044,012; Nov. 12; Gaz. vol. 184; p. 371.
Crumb-collector. W. H. McConnaughy. No. 1,013,195; Jan. 2; Sp. p. 219; Gaz. vol. 174; p. 37.
Crumbling device for superphosphate and other materials. N. K. E. Malmsten and K. T. Thorssell. No. 1,026,273; May 14; Sp. p. 2603; Gaz. vol. 178; p. 436.
Crupper. S. D. Hinkle and A. Catlett. No. 1,047,808; Dec. 17; Gaz. vol. 185; p. 771.
Crusher: *See* Clod-crusher; Gyratory crusher; Ice-crusher; Jaw-crusher; Ore-crusher; Rock-crusher; Seed-crusher; Stone-crusher.
Crusher. T. L. and T. J. Sturtevant. No. 1,013,459; Jan. 2; Sp. p. 802; Gaz. vol. 174; p. 129.
Crusher. W. H. Lieber. No. 1,030,194; June 18; Sp. p. 4619; Gaz. vol. 179; p. 795.
Crusher. R. C. Newhouse. No. 1,031,083; July 2; Gaz. vol. 180; p. 84.
Crusher. H. Lechtenberg. No. 1,039,062; Sept. 17; Gaz. vol. 182; p. 704.
Crusher. T. J. Sturtevant. No. 1,044,596; Nov. 19; Gaz. vol. 184; p. 602.
Crusher. O. C. Beach. No. 1,045,499; Nov. 26; Gaz. vol. 184; p. 944.
Crusher. F. O. Whiting. No. 1,045,763; Nov. 26; Gaz. vol. 184; p. 1038.
Crusher and pulverizer. M. F. Williams. No. 1,020,380; Mar. 12; Sp. p. 2893; Gaz. vol. 176; p. 490.
Crusher and pulverizer. F. L. Buchanan. No. 1,035,313; Aug. 13; Gaz. vol. 181; p. 337.
Crusher and pulverizer. F. L. Buchanan. No. 1,044,441; Nov. 12; Gaz. vol. 184; p. 516.
Crusher or grinder. J. L. Sargent. No. 1,044,255; Nov. 12; Gaz. vol. 184; p. 453.
Crusher or pulverizer. M. J. Williams. No. 1,030,956; July 2; Gaz. vol. 180; p. 36.
Crusher or pulverizer adjusting mechanism. M. F. Williams. No. 1,039,623; Sept. 24; Gaz. vol. 182; p. 919.
Crusher-plate. F. M. Canda. No. 1,015,871; Jan. 30; Sp. p. 6113; Gaz. vol. 174; p. 1066.
Crushing and grinding mill. G. W. O'Bryan. No. 1,019,828; Mar. 12; Sp. p. 1753; Gaz. vol. 176; p. 307.
Crushing and pulverizing machine. J. L. Hiller. No. 1,020,501; Mar. 19; Sp. p. 3162; Gaz. vol. 176; p. 568.
Crushing and separating fine materials. T. A. Edison. (Reissue.) No. 13,382; Mar. 12; Sp. p. 2923; Gaz. vol. 176; p. 495.
Crushing-machine. E. B. Symons. No. 1,013,626; Jan. 2; Sp. p. 1160; Gaz. vol. 174; p. 184.
Crushing-machine. C. G. Buchanan. No. 1,024,497; Apr. 30; Sp. p. 5893; Gaz. vol. 177; p. 1054.
Crushing-machine. J. Willners. No. 1,025,895; May 7; Sp. p. 1765; Gaz. vol. 178; p. 271.
Crushing-machine. C. G. Buchanan. No. 1,029,910; June 18; Sp. p. 4030; Gaz. vol. 179; p. 700.
Crushing-machine. J. M. Sholl. No. 1,038,794; Sept. 17; Gaz. vol. 182; p. 616.
Crushing-machine roll. W. A. Box. No. 1,036,067; Aug. 20; Gaz. vol. 181; p. 631.
Crushing-machine, Roll. T. L. and T. J. Sturtevant. No. 1,045,454; Nov. 26; Gaz. vol. 184; p. 929.
Crushing-mill. T. J. Sturtevant. No. 1,027,222; May 21; Sp. p. 4737; Gaz. vol. 178; p. 796.
Crushing-mill. T. L. and T. J. Sturtevant. No. 1,027,294; May 21; Sp. p. 4883; Gaz. vol. 178; p. 821.
Crushing-rolls. J. S. Frazee. No. 1,014,383; Jan. 9; Sp. p. 2887; Gaz. vol. 174; p. 478.
Crutch. S. E. Walton. No. 1,035,760; Aug. 13; Gaz. vol. 181; p. 489.
Crutches, Antislipping attachment for. E. Conrad. No. 1,031,247; July 2; Gaz. vol. 180; p. 141.
Cue. H. W. McLaughlin. No. 1,014,502; Jan. 9; Sp. p. 3102; Gaz. vol. 174; p. 515.
Cue. F. A. Torrey. No. 1,048,007; Dec. 24; Gaz. vol. 185; p. 865.
Cue, Automatic chalking-. W. C. Vasbinder. No. 1,031,668; July 2; Gaz. vol. 180; p. 284.
Cue-chalker. A. E. Newman. No. 1,041,148; Oct. 15; Gaz. vol. 183; p. 564.
Cue-rack. T. R. Treiber. No. 1,047,339; Dec. 17; Gaz. vol. 185; p. 608.
Cue-tip. J. Masgai. No. 1,013,671; Jan. 2; Sp. p. 1286; Gaz. vol. 174; p. 201.
Cue-tip. P. Balzano. No. 1,046,371; Dec. 3; Gaz. vol. 185; p. 199.
Cue-tip-chalking device. A. A. Chisholm and A. E. James. No. 1,034,421; Aug. 6; Gaz. vol. 181; p. 8.
Cue-tip, Detachable. A. Benhoff. No. 1,022,172; Apr. 2; Sp. p. 892; Gaz. vol. 177; p. 142.
Cue-tip fastener. T. N. De Witt. No. 1,028,002; May 28; Sp. p. 6393; Gaz. vol. 178; p. 1097.
Cue-tip holder. J. C. Bechtold. No. 1,014,559; Jan. 9; Sp. p. 3206; Gaz. vol. 174; p. 534.
Cue-tip holder. W. H. La Fevre. No. 1,040,362; Oct. 8; Gaz. vol. 183; p. 262.
Cue-trimmer. F. Brecker. No. 1,021,128; Mar. 26; Sp. p. 4501; Gaz. vol. 176; p. 830.
Cuff-fastener. A. G. Gates. No. 1,017,865; Feb. 20; Sp. p. 3615; Gaz. vol. 175; p. 633.
Cuff, Finger-. C. C. Hedrick. No. 1,042,344; Oct. 22; Gaz. vol. 183; p. 1002.
Cuff, Garment-. G. Becker. No. 1,039,888; Oct. 1; Gaz. vol. 183; p. 73.
Cuff-pin. W. W. Williams. No. 1,027,302; May 21; Sp. p. 4897; Gaz. vol. 178; p. 824.
Cuff-pin. W. W. Williams. No. 1,041,932; Oct. 22; Gaz. vol. 183; p. 866.
Cuff-pin. W. R. Perce. No. 1,047,441; Dec. 17; Gaz. vol. 185; p. 640.
Cuff-press. W. Bartholomew. No. 1,021,231; Mar. 26; Sp. p. 4731; Gaz. vol. 176; p. 865.
Cuff-press. W. Bartholomew. No. 1,042,752; Oct. 29; Gaz. vol. 183; p. 1173.
Cuff-protector. N. Cerri. No. 1,013,126; Jan. 2; Sp. p. 76; Gaz. vol. 174; p. 14.
Cuff, Reversible. N. P. Shulin. No. 1,020,318; Mar. 12; Sp. p. 2776; Gaz. vol. 176; p. 470.
Cuffs, &c., Machine for folding blanks for. G. J. Dormandy. No. 1,017,040; Feb. 13; Sp. p. 1794; Gaz. vol. 175; p. 313.
Culinary apparatus, Electrically-heated. W. S. Hadaway, Jr., and E. E. Rose. No. 1,028,107; June 4; Sp. p. 28; Gaz. vol. 179; p. 8.
Culinary article. C. Nelson. No. 1,022,438; Apr. 9; Sp. p. 1452; Gaz. vol. 177; p. 260.
Culinary article. O. D. Brossia. No. 1,045,252; Nov. 26; Gaz. vol. 184; p. 858.
Culinary device. J. S. Johnson. No. 1,014,479; Jan. 9; Sp. p. 3063; Gaz. vol. 174; p. 508.
Culinary implement. W. T. Wood. No. 1,024,240; Apr. 23; Sp. p. 5336; Gaz. vol. 177; p. 935.
Culinary implement. J. E. Wyatt. No. 1,041,221; Oct. 15; Gaz. vol. 183; p. 589.
Culinary machine. H. F. Hall. No. 1,036,488; Aug. 20; Gaz. vol. 181; p. 779.
Culinary machine. H. F. Hall. No. 1,036,489; Aug. 20; Gaz. vol. 181; p. 780.
Culinary machine. R. Kisic. No. 1,045,039; Nov. 19; Gaz. vol. 184; p. 756.
Culinary or kitchen utensil. A. B. Spangler. No. 1,023,226; Apr. 16; Sp. p. 3176; Gaz. vol. 177; p. 568.
Culinary separating-machine. A. C. Pancoast. No. 1,015,337; Jan. 23; Sp. p. 4971; Gaz. vol. 174; p. 858.

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Culinary-utensil cover. E. Zysset. No. 1,013,263; Jan. 2; Sp. p. 379; Gaz. vol. 174; p. 61.
Cultivating device. F. M. Shonkwiler and J. Thomi. No. 1,029,472; June 11; Sp. p. 3053; Gaz. vol. 179; p. 511.
Cultivating implement. J. W. Carawan. No. 1,021,573; Mar. 26; Sp. p. 5478; Gaz. vol. 176; p. 984.
Cultivating-machine. D. H. Abbott. No. 1,023,704; Apr. 16; Sp. p. 4108; Gaz. vol. 177; p. 721.
Cultivating-machine. K. Köszegi and E. Széchenyi. No. 1,034,124; July 30; Gaz. vol. 180; p. 1268.
Cultivating or plowing land. Implement for. T. C. Darby. No. 1,038,858; Sept. 17; Gaz. vol. 182; p. 639.
Cultivator. J. E. Binns, Jr. No. 1,013,269; Jan. 2; Sp. p. 391; Gaz. vol. 174; p. 63.
Cultivator. W. H. Parlin. No. 1,013,306; Jan. 2; Sp. p. 487; Gaz. vol. 174; p. 76.
Cultivator. W. J. Burrows. No. 1,013,476; Jan. 2; Sp. p. 843; Gaz. vol. 174; p. 135.
Cultivator. V. Widder. No. 1,013,710; Jan. 2; Sp. p. 1370; Gaz. vol. 174; p. 214.
Cultivator. A. S. Beymer. No. 1,014,038; Jan. 9; Sp. p. 2129; Gaz. vol. 174; p. 356.
Cultivator. E. J. Brooks. No. 1,014,045; Jan. 9; Sp. p. 2146; Gaz. vol. 174; p. 358.
Cultivator. E. J. Davis. No. 1,014,572; Jan. 9; Sp. p. 3232; Gaz. vol. 174; p. 538.
Cultivator. J. G. Briggs. No. 1,014,944; Jan. 16; Sp. p. 4148; Gaz. vol. 174; p. 698.
Cultivator. A. Glatt. No. 1,017,048; Feb. 13; Sp. p. 1819; Gaz. vol. 175; p. 316.
Cultivator. F. C. Warne. No. 1,017,353; Feb. 13; Sp. p. 2483; Gaz. vol. 175; p. 421.
Cultivator. J. J. Rampley. No. 1,017,465; Feb. 13; Sp. p. 2744; Gaz. vol. 175; p. 462.
Cultivator. E. T. Van Boven. No. 1,019,382; Mar. 5; Sp. p. 883; Gaz. vol. 176; p. 130.
Cultivator. J. C. Kiel. No. 1,019,803; Mar. 12; Sp. p. 1717; Gaz. vol. 176; p. 300.
Cultivator. J. W. Osborne. No. 1,020,620; Mar. 19; Sp. p. 3437; Gaz. vol. 176; p. 608.
Cultivator. E. B. Builta. No. 1,022,354; Apr. 2; Sp. p. 1254; Gaz. vol. 177; p. 201.
Cultivator. C. W. Gift. No. 1,024,986; Apr. 30; Sp. p. 6971; Gaz. vol. 177; p. 1225.
Cultivator. S. H. Tinsman. No. 1,025,220; May 7; Sp. p. 244; Gaz. vol. 178; p. 41.
Cultivator. M. N. Kirkhuff. No. 1,025,749; May 7; Sp. p. 1414; Gaz. vol. 178; p. 222.
Cultivator. M. N. Kirkhuff. No. 1,025,874; May 7; Sp. p. 1689; Gaz. vol. 178; p. 264.
Cultivator. W. E. Mikesell. No. 1,028,053; May 28; Sp. p. 6499; Gaz. vol. 178; p. 1112.
Cultivator. W. L. Paul. No. 1,028,954; June 11; Sp. p. 1923; Gaz. vol. 179; p. 332.
Cultivator. I. A. Weaver. No. 1,033,852; July 30; Gaz. vol. 180; p. 1172.
Cultivator. F. N. Taff. No. 1,034,165; July 30; Gaz. vol. 180; p. 1283.
Cultivator. J. Kindl. No. 1,034,624; Aug. 6; Gaz. vol. 181; p. 74.
Cultivator. W. L. Paul. No. 1,035,039; Aug. 6; Gaz. vol. 181; p. 211.
Cultivator. W. J. Daniel. No. 1,036,460; Aug. 20; Gaz. vol. 181; p. 770.
Cultivator. F. C. Warne. No. 1,036,940; Aug. 27; Gaz. vol. 181; p. 962.
Cultivator. J. W. Jennings. No. 1,037,484; Sept. 3; Gaz. vol. 182; p. 105.
Cultivator. W. A. Calvin. No. 1,040,879; Oct. 8; Gaz. vol. 183; p. 439.
Cultivator. J. C. Avary. No. 1,040,990; Oct. 15; Gaz. vol. 183; p. 511.
Cultivator. L. H. Beltzer. No. 1,040,999; Oct. 15; Gaz. vol. 183; p. 514.
Cultivator. J. H. Dekle. No. 1,041,043; Oct. 15; Gaz. vol. 183; p. 529.
Cultivator. R. C. Dougan. No. 1,041,447; Oct. 15; Gaz. vol. 183; p. 664.
Cultivator. C. Christensen and C. W. Noonen. No. 1,043,202; Nov. 5; Gaz. vol. 184; p. 56.
Cultivator. J. Olson. No. 1,043,246; Nov. 5; Gaz. vol. 184; p. 71.
Cultivator. H. D. Leonard. No. 1,043,779; Nov. 5; Gaz. vol. 184; p. 257.
Cultivator. F. P. Goodwin. No 1,044,043; Nov 12; Gaz. vol. 184; p. 381.
Cultivator. E. H. Colgan. No. 1,044,497; Nov. 19; Gaz. vol. 184; p. 565.
Cultivator. L. E. Waterman. No. 1,044,714; Nov. 19; Gaz. vol. 184; p. 645.
Cultivator. R. H. Purnell. No. 1,045,080; Nov. 19; Gaz. vol. 184; p. 769.
Cultivator. J. C. Williams. No. 1,046,419; Dec. 3; Gaz. vol. 185; p. 217.
Cultivator. L. Sessler. No. 1,046,872; Dec. 10; Gaz. vol. 185; p. 413.
Cultivator. C. Raybourn and F. W. Hertel. No. 1,047,564; Dec. 17; Gaz. vol. 185; p. 686.
Cultivator, Adjustable. J. K. Wedgworth. No. 1,039,856; Oct. 1; Gaz. vol. 183; p. 63.
Cultivator and beet-digger. H. C. Shay. No. 1,041,684; Oct. 15; Gaz. vol. 183; p. 742.
Cultivator and fertilizer-distributer, Combined. T. J. Grimes. No. 1,040,936; Oct. 8; Gaz. vol. 183; p. 458.
Cultivator and planter, Combined. W. C. Dunlap. No. 1,045,381; Nov. 26; Gaz. vol. 184; p. 902.
Cultivator attachment. A. A. Mitchell. No. 1,013,675; Jan. 2; Sp. p. 1292; Gaz. vol. 174; p. 203.
Cultivator attachment. W. C. Dunlap. No. 1,025,458; May 7; Sp. p. 780; Gaz. vol. 178; p. 122.
Cultivator attachment. C. Lickey. No. 1,027,264; May 21; Sp. p. 4811; Gaz. vol. 178; p. 811.
Cultivator attachment. J. A. Janosek. No. 1,031,121; July 2; Gaz. vol. 180; p. 97.
Cultivator attachment. E. J. Hoetzel. No. 1,033,697; July 23; Gaz. vol. 180; p. 1094.
Cultivator attachment. W. W. Buboltz. No. 1,039,890; Oct. 1; Gaz. vol. 183; p. 74.
Cultivator attachment. W. V. and M. S. Crouch. No. 1,043,044; Oct. 29; Gaz. vol. 183; p. 1274.
Cultivator attachment. F. Lockett. No. 1,043,119; Nov. 5; Gaz. vol. 184; p. 25.
Cultivator attachment. A. H. Davis. No. 1,045,126; Nov. 26; Gaz. vol. 184; p. 814.
Cultivator attachment. F. H. Coates. No. 1,048,040; Dec. 24; Gaz. vol. 185; p. 876.
Cultivator attachment, Disk-. C. H. Gardiner. No. 1,045,137; Nov. 26; Gaz. vol. 184; p. 817.
Cultivator, Beet-blocking. A. Clark. No. 1,025,961; May 14; Sp. p. 1906; Gaz. vol. 178; p. 328.
Cultivator-blade attachment. W. Cantrelle. No. 1,015,136; Jan. 16; Sp. p. 4530; Gaz. vol. 174; p. 764.
Cultivator, Combination-. J. Ropp. No. 1,019,738; Mar. 5; Sp. p. 1579; Gaz. vol. 176; p. 246.
Cultivator, Combination-. J. Ropp. No. 1,019,739; Mar. 5; Sp. p. 1581; Gaz. vol. 176; p. 246.
Cultivator cotton-chopping attachment. C. F. and C. D. Smith. No. 1,034,038; July 30; Gaz. vol. 180; p. 1240.
Cultivator, Disk. A. Brigden. No. 1,031,518; July 2; Gaz. vol. 180; p. 233.
Cultivator, Disk. L. E. Waterman. No. 1,042,991; Oct. 29; Gaz. vol. 183; p. 1254.
Cultivator draft-equalizer. C. E. King. No. 1,028,076; May 28; Sp. p. 6556; Gaz. vol. 178; p. 1119.
Cultivator dropper attachment. S. H. Hill. No. 1,018,709; Feb. 27; Sp. p. 5517; Gaz. vol. 175; p. 955.
Cultivator-fender. W. P. Cheatham. No. 1,018,298; Feb. 20; Sp. p. 4564; Gaz. vol. 175; p. 783.
Cultivator-fender. D. J. Orton. No. 1,037,654; Sept. 3; Gaz. vol. 182; p. 160.
Cultivator-fender adjuster. W. H. Fox. No. 1,037,609; Sept. 3; Gaz. vol. 182; p. 144.
Cultivator-frame. L. E. Waterman. No. 1,025,770; May 7; Sp. p. 1455; Gaz. vol. 178; p. 229.
Cultivator harrow attachment. S. A. Cowart. No. 1,014,124; Jan. 9; Sp. p. 2314; Gaz. vol. 174; p. 386.
Cultivator harrow attachment. R. S. Wynne. No. 1,017,838; Feb. 20; Sp. p. 3552; Gaz. vol. 175; p. 624.
Cultivator-hoe, Revolving. J. S. Lynch. No. 1,045,863; Dec. 3; Gaz. vol. 185; p. 23.
Cultivator-hopple. F. Smith. No. 1,022,272; Apr. 2; Sp. p. 1089; Gaz. vol. 177; p. 174.
Cultivator, Hydrocarbon disk. W. E. Nye and J. E. Cram. No. 1,014,899; Jan. 16; Sp. p. 4035; Gaz. vol. 174; p. 682.
Cultivator, Lister-. F. L. Dewey. No. 1,021,826; Apr. 2; Sp. p. 167; Gaz. vol. 177; p. 27.
Cultivator, Motor-driven hand-. S. G. Stevens. No. 1,038,454; Sept. 10; Gaz. vol. 182; p. 465.
Cultivator planter attachment. J. P. Bradford. No. 1,037,724; Sept. 3; Gaz. vol. 182; p. 183.
Cultivator-rake. F. H. Chase. No. 1,031,688; July 9; Gaz. vol. 180; p. 334.
Cultivator, Revolving. F. W. Leonard. No. 1,018,717; Feb. 27; Sp. p. 5532; Gaz. vol. 175; p. 958.
Cultivator riding attachment. C. W. Gerdes. No. 1,017,209; Feb. 13; Sp. p. 2188; Gaz. vol. 175; p. 372.
Cultivator, Rotary. A. J. Dremel. No. 1,041,980; Oct. 22; Gaz. vol. 183; p. 881.
Cultivator-shovel. J. P. Stanza. No. 1,037,355; Sept. 3; Gaz. vol. 182; p. 59.
Cultivator-shovel support. L. E. Waterman. No. 1,025,771; May 7; Sp. p. 1456; Gaz. vol. 178; p. 229.
Cultivator spreader-arch. S. S. Swanson. No. 1,033,765; July 23; Gaz. vol. 180; p. 1115.
Cultivator-standard. E. D. Yeatts. No. 1,031,607; July 2; Gaz. vol. 180; p. 263.
Cultivator-tooth. S. K. Dennis. No. 1,041,975; Oct. 22; Gaz. vol. 183; p. 880.
Cultivator-tooth and connection. D. W. Martin. No. 1,034,474; Aug. 6; Gaz. vol. 181; p. 24.
Cultivator-tooth attachment. W. L. Holt. No. 1,020,202; Mar. 12; Sp. p. 2559; Gaz. vol. 176; p. 434.
Cultivator-wheel guard. F. Adix. No. 1,026,293; May 14; Sp. p. 2649; Gaz. vol. 178; p. 443.
Cultivators, Cotton-chopping attachment for. J. Walthall and O. C. Carter. No. 1,020,862; Mar. 19; Sp. p. 3965; Gaz. vol. 176; p. 691.
Cultivators, harrows, &c., Tooth for. X. Helmbacher. No. 1,042,674; Oct. 29; Gaz. vol. 183; p. 1146.

Alphabetical list of inventions—Continued.

Cultivators or plows, Spacing attachment for. J. H. Stubblefield. No. 1,025,546; May 7; Sp. p. 990; Gaz. vol. 178; p. 153.
Culvert. J. H. Schlafly. No. 1,016,581; Feb. 6; Sp. p. 809; Gaz. vol. 175; p. 120.
Culvert. T. A. Hill. No. 1,025,186; May 7; Sp. p. 171; Gaz. vol. 178; p. 29.
Culvert. H. I. Standley. No. 1,025,327; May 7; Sp. p. 492; Gaz. vol. 178; p. 76.
Culvert. A. Reuterdahl. No. 1,028,829; June 4; Sp. p. 1634; Gaz. vol. 179; p. 255.
Culvert. A. Reuterdahl. No. 1,028,830; June 4; Sp. p. 1635; Gaz. vol. 179; p. 255.
Culvert. C. Haines. No. 1,030,298; June 25; Sp. p. 4866; Gaz. vol. 179; p. 871.
Culvert. G. A. Belding. No. 1,036,546; Aug. 27; Gaz. vol. 181; p. 832.
Culvert. W. B. Stambaugh. No. 1,040,046; Oct. 1; Gaz. vol. 183; p. 125.
Culvert. R. B. Hibbs. No. 1,048,071; Dec. 24; Gaz. vol. 185; p. 886.
Culvert. W. H. Haight. No. 1,048,153; Dec. 24; Gaz. vol. 185; p. 915.
Culvert, Corrugated. G. W. Warner. No. 1,020,002; Mar. 12; Sp. p. 2127; Gaz. vol. 176; p. 366.
Culvert-form. M. J. A. Flom. No. 1,035,336; Aug. 13; Gaz. vol. 181; p. 346.
Culvert, Metal. W. T. Shannon. No. 1,040,442; Oct. 8; Gaz. vol. 183; p. 289.
Culvert, Metallic. J. R. Rankin and J. H. Larrick. No. 1,013,440; Jan. 2; Sp. p. 771; Gaz. vol. 174; p. 122.
Culvert, Metallic. K. J. Thorsby. No. 1,017,347; Feb. 13; Sp. p. 2472; Gaz. vol. 175; p. 420.
Culvert, Metallic. K. J. Thorsby. No. 1,028,638; June 4; Sp. p. 1241; Gaz. vol. 179; p. 191.
Culvert-mold. O. L. Ledington and J. Sandell. No. 1,018,396; Feb. 20; Sp. p. 4778; Gaz. vol. 175; p. 817.
Culvert-mold. G. B. Murray. No. 1,029,024; June 11; Sp. p. 2081; Gaz. vol. 179; p. 358.
Culvert-mold. W. H. Beery. No. 1,043,193; Nov. 5; Gaz. vol. 184; p. 53.
Culvert-pipe. E. S. Putney and F. L. Carswell. No. 1,020,779; Mar. 19; Sp. p. 3783; Gaz. vol. 176; p. 663.
Culvert-pipe. F. B. Zieg. No. 1,037,709; Sept. 3; Gaz. vol. 182; p. 179.
Culvert, Sectional. R. Hardesty. No. 1,044,044; Nov. 12; Gaz. vol. 184; p. 381.
Culvert-sections, Means for joining. A. G. Felker. No. 1,016,878; Feb. 6; Sp. p. 1420; Gaz. vol. 175; p. 220.
Culverts and bridges, Adjustable mold for. P. C. Merillat. No. 1,022,960; Apr. 9; Sp. p. 2584; Gaz. vol. 177; p. 439.
Cup: *See* Aseptic cup; Collapsible cup; Dental impression-cup; Douche-cup; Drinking-cup; Egg-cup; Engine priming-cup; Folding cup; Grease-cup; Jewel-cup; Lubricant-cup; Lubricating-cup; Milking-machine teat-cup; Oil-cup; Paper drinking-cup; Sanitary cup; Sap-cup; Sputum-cup; Teat-cup; Turpentine-cup; Umbrella drip-cup.
Cup. L. W. Luellen. No. 1,032,557; July 16; Gaz. vol. 180; p. 673.
Cup blank, Sanitary-drinking-. G. F. Hogan. No. 1,021,099; Mar. 26; Sp. p. 4436; Gaz. vol. 176; p. 821.
Cup carrying and collecting apparatus, Drinking-. L. W. Farmer. No. 1,045,135; Nov. 26; Gaz. vol. 184; p. 817.
Cup device, Drinking-. J. H. Marsters and A. Abraham. No. 1,035,718; Aug. 13; Gaz. vol. 181; p. 475.
Cup-dispensing device. L. W. Luellen. No. 1,043,854; Nov. 12. Gaz. vol. 184; p. 315.
Cup holder, Drinking-. J. B. Walker. No. 1,019,934; Mar. 12; Sp. p. 1989; Gaz. vol. 176; p. 344.
Cup holder, Drinking-. C. A. Bryant. No. 1,029,342; June 11; Sp. p. 2772; Gaz. vol. 179; p. 467.
Cup-shaped articles, Machine for making. L. F. Brasch and A. C. Teany. No. 1,033,300; July 23; Gaz. vol. 180; p. 965.
Cup-shaped articles, Making. F. Weiss. No. 1,042,300; Oct. 22; Gaz. vol. 183; p. 986.
Cups, Nest of drinking-. W. H. Cushman. No. 1,021,716; Mar. 26; Sp. p. 5730; Gaz. vol. 176; p. 1029.
Cupboard and dumb-waiter, Combined. C. C. Yetter. No. 1,027,229; May 21; Sp. p. 4750; Gaz. vol. 178; p. 799.
Cupboard and ironing-board, Combined. A. G. L. Schwartz and J. Geiger. No. 1,038,447; Sept. 10; Gaz. vol. 182; p. 462.
Curb and gutter form. J. N. Heltzel. No. 1,037,907; Sept. 10; Gaz. vol. 182; p. 278.
Curb and gutter mold, Cement. J. S. W. Cannell. No. 1,034,074; July 30; Gaz. vol. 180; p. 1252.
Curb and snaffle bit, Combined. G. Johnston. No. 1,014,881; Jan. 16; Sp. p. 4001; Gaz. vol. 174; p. 676.
Curb-nosing and the like. W. E. Ficklen. No. 1,032,393; July 16; Gaz. vol. 180; p. 619.
Curb-shaping tool. E. Olson. No. 1,035,037; Aug. 6; Gaz. vol. 181; p. 211.
Curbing, &c. S. N. Cornwall. No. 1,020,887; Mar. 19; Sp. p. 4002; Gaz. vol. 176; p. 697.
Curbing mold, Well-. E. Savoy. No. 1,041,358; Oct. 15; Gaz. vol. 183; p. 636.
Curette. J. H. McCurry. No. 1,033,914; July 30; Gaz. vol. 180; p. 1194.
Curing apparatus. J. F. Jack. No. 1,013,600; Jan. 2; Sp. p. 1100; Gaz. vol. 174; p. 177.
Curling-iron. C. W. Wilmot. No. 1,031,604; July 2; Gaz. vol. 180; p. 262.
Curling-iron, Electric. C. P. Madsen. No. 1,018,673; Feb. 27; Sp. p. 5440; Gaz. vol. 175; p. 943.
Curling-iron heater. C. P. Shinn. No. 1,023,044; Apr. 9; Sp. p. 2742; Gaz. vol. 177; p. 468.
Curling-iron protector. C. H. Brown. No. 1,023,716; Apr. 16; Sp. p. 4131; Gaz. vol. 177; p. 725.
Currency cutting and signing machine. A. C. La May. No. 1,029,199; June 11; Sp. p. 2445; Gaz. vol. 179; p. 416.
Currency-cutting machine. L. H. Colburn and F. F. Clarke. No. 1,044,990; Nov. 19; Gaz. vol. 184; p. 738.
Current-collecting mechanism. C. J. E. Waxbom. No. 1,027,090; May 21; Sp. p. 4469; Gaz. vol. 178; p. 753.
Current-conducting wires, Bracket for. A. Kleinhesselink. No. 1,048,706; Dec. 31; Gaz. vol. 185; p. 1143.
Current-controller. G. B. Dusinberre. No. 1,041,982; Oct. 22; Gaz. vol. 183; p. 882.
Current-controller. L. Bradley. No. 1,043,565; Nov. 5; Gaz. vol. 184; p. 187.
Current-controlling apparatus. E. L. Gale, Sr. No. 1,048,450; Dec. 24; Gaz. vol. 185; p. 1014.
Current converter, Continuous-. W. Alhorn. No. 1,038,064; Sept. 10; Gaz. vol. 182; p. 331.
Current distributer and timer. J. M. Smith. No. 1,038,451; Sept. 10; Gaz. vol. 182; p. 463.
Current distributer and timer. J. M. Smith. No. 1,048,903; Dec. 31; Gaz. vol. 185; p. 1210.
Current-distributer, Wireless-controlled. C. Wirth. No. 1,029,573; June 11; Sp. p. 3252; Gaz. vol. 179; p. 546.
Current-distributing system, Alternating-. S. D. Sprong and W. E. McCoy. No. 1,035,394; Aug. 13; Gaz. vol. 181; p. 367.
Current-interrupter. E. S. Beck. No. 1,039,011; Sept. 17; Gaz. vol. 182; p. 690.
Current-meter. G. C. Buck. No. 1,034,399; July 30; Gaz. vol. 180; p. 1365.
Current meter, Alternating-. K. H. Gyr. No. 1,039,387; Sept. 24; Gaz. vol. 182; p. 836.
Current-motor. G. M. Kievlan. No. 1,014,066; Jan. 9; Sp. p. 2187; Gaz. vol. 174; p. 366.
Current-motor. H. Alles. No. 1,014,930; Jan. 16; Sp. p. 4114; Gaz. vol. 174; p. 693.
Current-motor. C. E. Redfield. No. 1,020,574; Mar. 19; Sp. p. 3339; Gaz. vol. 176; p. 594.
Current-motor. D. Bartoszewicz. No. 1,023,494; Apr. 16; Sp. p. 3706; Gaz. vol. 177; p. 656.
Current-motor. J. H. Martin. No. 1,025,002; Apr. 30; Sp. p. 7004; Gaz. vol. 177; p. 1230.
Current-motor. C. A. Neyland. No. 1,027,213; May 21; Sp. p. 4717; Gaz. vol. 178; p. 792.
Current-motor. E. Cox. No. 1,027,993; May 28; Sp. p. 6368; Gaz. vol. 178; p. 1094.
Current-motor. T. H. Walker. No. 1,034,940; Aug. 6; Gaz. vol. 181; p. 181.
Current-motor. W. C. Howland. No. 1,037,255; Sept. 3; Gaz. vol. 182; p. 27.
Current-motor. O. D. Booth. No. 1,039,087; Sept. 24; Gaz. vol. 182; p. 730.
Current-motor. S. Roney. No. 1,045,191; Nov. 26; Gaz. vol. 184; p. 836.
Current-motor. C. B. Murdock. No. 1,047,274; Dec. 17; Gaz. vol. 185; p. 583.
Current motor, Alternate-. V. A. Fynn. No. 1,038,337; Sept. 10; Gaz. vol. 182; p. 422.
Current motor, Alternate-. V. A. Fynn. No. 1,038,338; Sept. 10; Gaz. vol. 182; p. 422.
Current motor, Alternating-. H. F. Hitner. No. 1,014,001; Jan. 9; Sp. p. 2043; Gaz. vol. 174; p. 344.
Current motor, Alternating-. A. C. Bell. No. 1,015,534; Jan. 23; Sp. p. 5390; Gaz. vol. 174; p. 923.
Current motor, Alternating-. E. F. W. Alexanderson. No. 1,019,402; Mar. 5; Sp. p. 932; Gaz. vol. 176; p. 136.
Current motor, Alternating-. V. A. Fynn. (Reissue.) No. 13,426; June 11; Sp. p. 3267; Gaz. vol. 179; p. 548.
Current motor, Multiple-. W. T. Bridges. No. 1,034,683; Aug. 6; Gaz. vol. 181; p. 93.
Current or wave motor. H. W. Lundquist. No. 1,016,022; Jan. 30; Sp. p. 6438; Gaz. vol. 174; p. 1120.
Current program system, Alternating-. J. L. Wrenn. No. 1,026,290; May 14; Sp. p. 2643; Gaz. vol. 178; p. 442.
Current rectification, High-voltage. J. L. R. Hayden. No. 1,032,900; July 16; Gaz. vol. 180; p. 790.
Current rectifier, Alternating-. C. P. Steinmetz. No. 1,037,558; Sept. 3; Gaz. vol. 182; p. 129.
Current rectifier, Alternating-. C. F. Fayer. No. 1,048,819; Dec. 31; Gaz. vol. 185; p. 1182.
Current-rectifier system. Q. A. Brackett. No. 1,036,789; Aug. 27; Gaz. vol. 181; p. 913.
Current regulation, System of alternating-. J. Bijur. No. 1,014,373; Jan. 9; Sp. p. 2864; Gaz. vol. 174; p. 474.
Current-regulator. W. H. Sherbondy. No. 1,026,775; May 21; Sp. p. 3712; Gaz. vol. 178; p. 643.
Current regulator, Alternating-. E. F. Gehrkens. No. 1,014,821; Jan. 16; Sp. p. 3856; Gaz. vol. 174; p. 655.
Current regulator, Alternating-. T. E. Adams. No. 1,024,963; Apr. 30; Sp. p. 6926; Gaz. vol. 177; p. 1217.

Alphabetical list of inventions—Continued.

Current switch, Alternating-. F. W. Smith and L. Larsen. No. 1,031,387; July 2; Gaz. vol. 180; p. 188.
Current system, Selective alternating-direct-. J. F. Tritle. No. 1,028,405; June 4; Sp. p. 752; Gaz. vol. 179; p. 113.
Current-transformer. L. M. Schmidt. No. 1,022,880; Apr. 9; Sp. p. 2402; Gaz. vol. 177; p. 411.
Current variations, Amplifying. E. Weintraub and M. C. A. Latour. No. 1,041,210; Oct. 15; Gaz. vol. 183; p. 586.
Currents into alternating currents, Apparatus for transforming continuous. E. L. Joseph. No. 1,042,446; Oct. 29; Gaz. vol. 183; p. 1065.
Currents, Method of and apparatus for relaying high-frequency. E. F. W. Alexanderson. No. 1,042,069; Oct. 22; Gaz. vol. 183; p. 910.
Currents, Transformation of direct. P. Amsler. No. 1,046,934; Dec. 10; Gaz. vol. 185; p. 434.
Currycomb. D. J. Alston. No. 1,026,843; May 21; Sp. p. 3858; Gaz. vol. 178; p. 666.
Currycomb. W. E. Steyding. No. 1,030,141; June 18; Sp. p. 4503; Gaz. vol. 179; p. 777.
Currycomb. J. W. Black. No. 1,038,273; Sept. 10; Gaz. vol. 182; p. 401.
Currycomb and brush. H. F. Endsley. No. 1,025,793; May 7; Sp. p. 1499; Gaz. vol. 178; p. 237.
Currycomb and cleaner, Combined. O. S. Lovely. No. 1,014,160; Jan. 9; Sp. p. 2376; Gaz. vol. 174; p. 397.
Currycomb-cleaning attachment. A. J. Thelen. No. 1,020,855; Mar. 19; Sp. p. 3951; Gaz. vol. 176; p. 688.
Currycomb, Self-cleaning. J. E. and A. Grönlund. No. 1,031,999; July 9; Gaz. vol. 180; p. 440.
Currycomb, Self-cleaning. R. Evans. No. 1,045,384; Nov. 26; Gaz. vol. 184; p. 902.
Currycomb, Vacuum-. W. H. Keller. No. 1,015,894; Jan. 30; Sp. p. 6167; Gaz. vol. 174; p. 1075.
Curtain and drapery support. O. S. Gage and T. E. Haskett. No. 1,049,073; Dec. 31; Gaz. vol. 185; p. 1269.
Curtain and shade holder. G. L. Smith. No. 1,030,340; June 25; Sp. p. 4975; Gaz. vol. 179; p. 887.
Curtain and shade holder, Combined. J. F. Lemieux. No. 1,015,693; Jan. 23; Sp. p. 5751; Gaz. vol. 174; p. 980.
Curtain and shade rollers, Spring-mounting for. H. Czabor. No. 1,028,995; June 11; Sp. p. 2022; Gaz. vol. 179; p. 347.
Curtain and shade support. J. Escher. No. 1,015,879; Jan. 30; Sp. p. 6129; Gaz. vol. 174; p. 1069.
Curtain-bracket. O. Kenitz and G. Debrowsky. No. 1,022,319; Apr. 2; Sp. p. 1176; Gaz. vol. 177; p. 189.
Curtain-bracket. E. J. Childress. No. 1,034,977; Aug. 6; Gaz. vol. 181; p. 195.
Curtain-bracket. J. F. Sofranko. No. 1,039,606; Sept. 24; Gaz. vol. 182; p. 913.
Curtain-bracket, Adjustable. G. C. Foertsch. No 1,042,421; Oct. 29; Gaz. vol. 183; p. 1056.
Curtain-fastener. W. Jamrog. No. 1,045,709; Nov. 26; Gaz. vol. 184; p. 1020.
Curtain-fixture. W. P. Marquis. No. 1,017,574; Feb. 13; Sp. p. 2943; Gaz. vol. 175; p. 497.
Curtain-fixture. H. Kiefer. No. 1,017,765; Feb. 20; Sp. p. 3341; Gaz. vol. 175; p. 598.
Curtain-fixture. A. I. Ross. No. 1,018,272; Feb. 20; Sp. p. 4508; Gaz. vol. 175; p. 774.
Curtain-fixture. J. Kroder. No. 1,019,662; Mar. 5; Sp. p. 1436; Gaz. vol. 176; p. 221.
Curtain-fixture. J. H. Deitz. No. 1,022,227; Apr. 2; Sp. p. 1010; Gaz. vol. 177; p. 162.
Curtain-fixture. P. R. Schmaltz. No. 1,024,288; Apr. 23; Sp. p. 5423; Gaz. vol. 177; p. 950.
Curtain-fixture. S. Skwarczewski. No. 1,024,913; Apr. 30; Sp. p. 6828; Gaz. vol. 177; p. 1200.
Curtain-fixture. B. Bower and H. Spero. No. 1,025,116; May 7; Sp. p. 3; Gaz. vol. 178; p. 3.
Curtain-fixture. H. S. Meek. No. 1,025,920; May 7; Sp. p. 1814; Gaz. vol. 178; p. 280.
Curtain-fixture. C. A. Sterling. No. 1,026,286; May 14; Sp. p. 2633; Gaz. vol. 178; p. 441.
Curtain-fixture. W. Bradley. No. 1,026,652; May 21; Sp. p. 3443; Gaz. vol. 178; p. 601.
Curtain-fixture. J. Werner. No. 1,027,950; May 28; Sp. p. 6277; Gaz. vol. 178; p. 1079.
Curtain-fixture. J. D. Gray. No. 1,030,997; July 2; Gaz. vol. 180; p. 52.
Curtain-fixture. E. E. Woodworth. No. 1,031,898; July 9; Gaz. vol. 180; p. 407.
Curtain-fixture. R. Andlauer. No. 1,033,224; July 23; Gaz. vol. 180; p. 939.
Curtain-fixture. J. L. Regne. No. 1,035,906; Aug. 20; Gaz. vol. 181; p. 578.
Curtain-fixture. E. E. Whitmore. No. 1,036,045; Aug. 20; Gaz. vol. 181; p. 623.
Curtain-fixture. V. Andrejkovits. No. 1,041,563; Oct. 15; Gaz. vol. 183; p. 702.
Curtain-fixture. C. S. Reeser. No. 1,041,671; Oct. 15; Gaz. vol. 183; p. 739.
Curtain-fixture. G. G. Sands. No. 1,046,862; Dec. 10; Gaz. vol. 185; p. 409.
Curtain fixture, Shade-. S. J. Gill. No. 1,040,186; Oct. 1; Gaz. vol. 183; p. 172.
Curtain-hanger. W. H. Huffman. No. 1,025,064; Apr. 30; Sp. p. 7112; Gaz. vol. 177; p. 1250.
Curtain-hanger. J. G. Hearest. No. 1,026,951; May 21; Sp. p. 4136; Gaz. vol. 178; p. 705.
Curtain-heading tape. H. A. Hart. No. 1,017,754; Feb. 20; Sp. p. 3320; Gaz. vol. 175; p. 594.
Curtain-holder. A. Mattern. No. 1,024,349; Apr. 23; Sp. p. 5527; Gaz. vol. 177; p. 968.
Curtain-holder. S. B. Walker. No. 1,028,164; June 4; Sp. p. 248; Gaz. vol. 179; p. 30.
Curtain-holder. C. M. Bergstrom. No. 1,036,785; Aug. 27; Gaz. vol. 181; p. 911.
Curtain or shade guide. A. C. Rader. No. 1,015,977; Jan. 30; Sp. p. 6343; Gaz. vol. 174; p. 1104.
Curtain or the like hanger. A. Andruskewicz. No. 1,042,521; Oct. 29; Gaz. vol. 183; p. 1092.
Curtain-pile. E. B. King. No. 1,029,372; June 11; Sp. p. 2840; Gaz. vol. 179; p. 477.
Curtain-pole. T. Jankowski. No. 1,013,169; Jan. 2; Sp. p. 164; Gaz. vol. 174; p. 28.
Curtain-pole. A. Mazurek. No. 1,014,405; Jan. 9; Sp. p. 2931; Gaz. vol. 174; p. 486.
Curtain-pole. J. Pulit. No. 1,015,068; Jan. 16; Sp. p. 4403; Gaz. vol. 174; p. 740.
Curtain-pole. C. Schinke. No. 1,016,040; Jan. 30; Sp. p. 6481; Gaz. vol. 174; p. 1127.
Curtain-pole. W. Walkiewicz. No. 1,018,794; Feb. 27; Sp. p. 5696; Gaz. vol. 175; p. 985.
Curtain-pole. G. M. Trombley. No. 1,018,852; Feb. 27; Sp. p. 5812; Gaz. vol. 175; p. 1004.
Curtain-pole. A. Kish and J. A. Henry. No. 1,020,988; Mar. 26; Sp. p. 4224; Gaz. vol. 176; p. 784.
Curtain-pole. E. Molencki. No. 1,021,064; Mar. 26; Sp. p. 4371; Gaz. vol. 176; p. 811.
Curtain-pole. H. Purat. No. 1,021,555; Mar. 26; Sp. p. 5434; Gaz. vol. 176; p. 978.
Curtain-pole. W. F. Bolinger. No. 1,021,570; Mar. 26; Sp. p. 5470; Gaz. vol. 176; p. 983.
Curtain-pole. M. J. Sowers. No. 1,021,902; Apr. 2; Sp. p. 318; Gaz. vol. 177; p. 53.
Curtain-pole. J. Thir. No. 1,022,210; Apr. 2; Sp. p. 970; Gaz. vol. 177; p. 155.
Curtain-pole. F. Ramming. No. 1,023,963; Apr. 23; Sp. p. 4710; Gaz. vol. 177; p. 835.
Curtain-pole. H. A. Anderson. No. 1,026,647; May 21; Sp. p. 3430; Gaz. vol. 178; p. 599.
Curtain-pole. A. P. Geiser. No. 1,029,358; June 11; Sp. p. 2801; Gaz. vol. 179; p. 472.
Curtain-pole. A. Rewi. No. 1,029,890; June 18; Sp. p. 3982; Gaz. vol. 179; p. 693.
Curtain-pole. E. A. Brockway. No. 1,029,973; June 18; Sp. p. 4158; Gaz. vol. 179; p. 720.
Curtain-pole. J. Anderson. No. 1,032,265; July 9; Gaz. vol. 180; p. 530.
Curtain-pole. F. Slacinski. No. 1,032,788; July 16; Gaz. vol. 180; p. 753.
Curtain-pole. F. Zeller. No. 1,036,404; Aug. 20; Gaz. vol. 181; p. 751.
Curtain-pole. C. J. Casbourne. No. 1,036,450; Aug. 20; Gaz. vol. 181; p. 766.
Curtain-pole. H. A. Anderson. No. 1,037,846; Sept. 10; Gaz. vol. 182; p. 256.
Curtain-pole. C. Hellmich. No. 1,037,906; Sept. 10; Gaz. vol. 182; p. 278.
Curtain-pole. H. B. Nylund. No. 1,039,787; Oct. 1; Gaz. vol. 183; p. 40.
Curtain-pole. J. C. De Haven. No. 1,042,093; Oct. 22; Gaz. vol. 183; p. 919.
Curtain-pole and bracket. J. W. Lovejoy. No. 1,022,852; Apr. 9; Sp. p. 2356; Gaz. vol. 177; p. 402.
Curtain pole and roller fixture, Combined. L. Lewandowski. No. 1,024,488; Apr. 23; Sp. p. 5848; Gaz. vol. 177; p. 1017.
Curtain-pole and shade-support, Combined. J. S. Schoonover. No. 1,018,633; Feb. 27; Sp. p. 5357; Gaz. vol. 175; p. 929.
Curtain-pole and shade-support, Combined. C. Margerison. No. 1,028,757; June 4; Sp. p. 1488; Gaz. vol. 179; p. 230.
Curtain-pole bracket. W. S. Moffat. No. 1,033,440; July 23; Gaz. vol. 180; p. 1010.
Curtain-pole fixture. J. J. Houlahen. No. 1,019,474; Mar. 5; Sp. p. 1074; Gaz. vol. 176; p. 158.
Curtain-pole holder. H. T. Holland. No. 1,026,953; May 21; Sp. p. 4139; Gaz. vol. 178; p. 706.
Curtain-pole remover. L. N. Adair. No. 1,046,047; Dec. 3; Gaz. vol. 185; p. 85.
Curtain-pole-removing device. A. W. Beglinger. No. 1,024,968; Apr. 30; Sp. p. 6935; Gaz. vol. 177; p. 1219.
Curtain-pole ring. C. Remhof. No. 1,022,873; Apr. 9; Sp. p. 2390; Gaz. vol. 177; p. 408.
Curtain-protector. C. Ice. No. 1,047,526; Dec. 17; Gaz. vol. 185; p. 672.
Curtain-ring. C. F. Laun. No. 1,034,630; Aug. 6; Gaz. vol. 181; p. 75.
Curtain-rod. M. Hovagimian. No. 1,023,650; Apr. 16; Sp. p. 4018; Gaz. vol. 177; p. 705.
Curtain-rod. W. B. Miller. No. 1,035,989; Aug. 20; Gaz. vol. 181; p. 604.

Alphabetical list of inventions—Continued.

Curtain-rod, &c. J. J. Clemens. No. 1,034,876; Aug. 6; Gaz. vol. 181; p. 161.
Curtain-rod and attachment. F. L. Lathrop and G. T. S. Spokes. No. 1,026,042; May 14; Sp. p. 2081; Gaz. vol. 178; p. 356.
Curtain-rod and bracket. F. L. Lathrop. No. 1,044,893; Nov. 19; Gaz. vol. 184; p. 705.
Curtain-rod and shade-fixture, Combined. C. W. Sumner. No. 1,044,940; Nov. 19; Gaz. vol. 184; p. 720.
Curtain-rod bracket. W. H. Edsall. No. 1,019,232; Mar. 5; Sp. p. 501; Gaz. vol. 176; p. 79.
Curtain-rod bracket. F. H. Shaw. No. 1,045,898; Dec. 3; Gaz. vol. 185; p. 35.
Curtain-rod heads, Machine for forming corrugated. C. P. Henry and F. H. Shaw. No. 1,034,796; Aug. 6; Gaz. vol. 181; p. 133.
Curtain-rod socket. W. H. Edsall and F. L. Lathrop. No. 1,036,813; Aug. 27; Gaz. vol. 181; p. 921.
Curtain rod, Window-. J. Geary. No. 1,028,706; June 4; Sp. p. 1362; Gaz. vol. 179; p. 213.
Curtain-roller. C. A. Carmany. No. 1,013,531; Jan. 2; Sp. p. 961; Gaz. vol. 174; p. 154.
Curtain-roller. C. A. Carmany. No. 1,013,532; Jan. 2; Sp. p. 965; Gaz. vol. 174; p. 155.
Curtain-roller. J. McCurry. No. 1,019,338; Mar. 5; Sp. p. 742; Gaz. vol. 176; p. 115.
Curtain-roller, Reinforced. W. H. Forsyth. No. 1,037,886; Sept. 10; Gaz. vol. 182; p. 270.
Curtain-rollers, Means for supporting and operating. E. H. McCloud. No. 1,015,331; Jan. 23; Sp. p. 4962; Gaz. vol. 174; p. 856.
Curtain-shade-operating means. J. W. Tatum. No. 1,033,490; July 23; Gaz. vol. 180; p. 1026.
Curtain-stretcher. J. O. Holmquist. No. 1,022,737; Apr. 9; Sp. p. 2124; Gaz. vol. 177; p. 364.
Curtain-stretcher. K. S. McKelvey. No. 1,024,905; Apr. 30; Sp. p. 6807; Gaz. vol. 177; p. 1197.
Curtain-stretcher. J. H. Hildreth. No. 1,032,061; July 9; Gaz. vol. 180; p. 460.
Curtain-stretcher. H. Morley. No. 1,035,627; Aug. 13; Gaz. vol. 181; p. 445.
Curtain-stretcher. N. G. Harper. No. 1,039,053; Sept. 17; Gaz. vol. 182; p. 701.
Curtain-stretcher. C. G. Carlson. No. 1,039,095; Sept. 24; Gaz. vol. 182; p. 733.
Curtain-stretcher. B. Schenk. No. 1,042,284; Oct. 22; Gaz. vol. 183; p. 981.
Curtain-stretcher. J. L. Hearn. No. 1,042,342; Oct. 22; Gaz. vol. 183; p. 1001.
Curtain-stretcher. J. H. Wise. No. 1,044,720; Nov. 19; Gaz. vol. 184; p. 645.
Curtain-stretcher, Self-squaring. J. O. Holmquist. (Reissue.) No. 13,379; Mar. 5; Sp. p. 1599; Gaz. vol. 176; p. 249.
Curtain-support. J. T. Cole. No. 1,023,069; Apr. 9; Sp. p. 2800; Gaz. vol. 177; p. 476.
Curtain-support. C. Joseph. No. 1,029,871; June 18; Sp. p. 3939; Gaz. vol. 179; p. 686.
Curtain-support. C. F. Laun. No. 1,037,936; Sept. 10; Gaz. vol. 182; p. 288.
Curtain-support, Adjustable. C. M. Thurston. No. 1,025,335; May 7; Sp. p. 507; Gaz. vol. 178; p. 79.
Curtain-suspender. M. Riedl. No. 1,047,295; Dec. 17; Gaz. vol. 185; p. 591.
Curtains or the like, Means for hanging. C. B. White. No. 1,039,343; Sept. 24; Gaz. vol. 182; p. 821.
Cushion: *See* Bath-cushion; Foot-cushion; Heel-cushion; Pneumatic cushion; Pump air-cushion.
Cushion-beating machine. C. R. Vinquist. No. 1,034,663; Aug. 6; Gaz. vol. 181; p. 86.
Cushion edge pad. W. R. Smith and F. H. Hampton. No. 1,030,795; June 25; Sp. p. 6216; Gaz. vol. 179; p. 1051.
Cushion-tire wheel, Combination spring-. R. F. Balding and H. P. Garland. No. 1,047,485; Dec. 17; Gaz. vol. 185; p. 657.
Cushion-tired wheel. N. Gratz. No. 1,036,829; Aug. 27; Gaz. vol. 181; p. 927.
Cushion-tired wheel. W. D. Simpson. No. 1,041,182; Oct. 15; Gaz. vol. 183; p. 576.
Cushion-wheel. J. Millar. No. 1,047,268; Dec. 17; Gaz. vol. 185; p. 580.
Cushion-wheel, Vehicle. J. F. Mitchell. No. 1,014,244; Jan. 9; Sp. p. 2575; Gaz. vol. 174; p. 429.
Cushioning device. A. Chabot, Jr. No. 1,022,225; Apr. 2; Sp. p. 1006; Gaz. vol. 177; p. 161.
Cushioning device. A. F. Rockwell and C. F. Schmelz. No. 1,036,340; Aug. 20; Gaz. vol. 181; p. 729.
Cushioning device. H. Harding. No. 1,046,589; Dec. 10; Gaz. vol. 185; p. 315.
Cushioning device, Liquid. T. J. Fox. No. 1,035,339; Aug. 13; Gaz. vol. 181; p. 347.
Cuspidor. H. C. Lovis. No. 1,015,046; Jan. 16; Sp. p. 4363; Gaz. vol. 174; p. 732.
Cuspidor. G. Lengyel. No. 1,015,694; Jan. 23; Sp. p. 5752; Gaz. vol. 174; p. 980.
Cuspidor. B. Bartosiewicz. No. 1,018,806; Feb. 27; Sp. p. 5729; Gaz. vol. 175; p. 989.
Cuspidor. W. L. Hilty and W. Hopes. No. 1,018,907; Feb. 27; Sp. p. 5934; Gaz. vol. 175; p. 1022.
Cuspidor. M. Walent. No. 1,019,565; Mar. 5; Sp. p. 1264; Gaz. vol. 176; p. 189.
Cuspidor. H. E. Weber. (Reissue.) No. 13,388; Mar. 19; Sp. p. 4150; Gaz. vol. 176; p. 725.
Cuspidor. H. G. Scholl. No. 1,021,073; Mar. 26; Sp. p. 4385; Gaz. vol. 176; p. 813.
Cuspidor. M. Boldizs. No. 1,023,616; Apr. 16; Sp. p. 3959; Gaz. vol. 177; p. 695.
Cuspidor. A. Szabados. No. 1,024,954; Apr. 30; Sp. p. 6912; Gaz. vol. 177; p. 1214.
Cuspidor. J. Noga. No. 1,030,116; June 18; Sp. p. 4457; Gaz. vol. 179; p. 770.
Cuspidor. R. S. Aspinwall. No. 1,031,103; July 2; Gaz. vol. 180; p. 90.
Cuspidor. D. Cavicchioli. No. 1,034,080; July 30; Gaz. vol. 180; p. 1254.
Cuspidor. T. Kunysz. No. 1,035,201; Aug. 13; Gaz. vol. 181; p. 298.
Cuspidor. H. F. Cryar. No. 1,040,154; Oct. 1; Gaz. vol. 183; p. 162.
Cuspidor. J. Mlinar. No. 1,043,339; Nov. 5; Gaz. vol. 184; p. 105.
Cuspidor. M. Plocher. No. 1,047,287; Dec. 17; Gaz. vol. 185; p. 588.
Cuspidor, Adjustable flushing. J. T. Fowler. No. 1,030,722; June 25; Sp. p. 6006; Gaz. vol. 179; p. 1024.
Cuspidor and the like, Sanitary. B. "J" Wilson and W. B. Couson. No. 1,037,700; Sept. 3; Gaz. vol. 182; p. 176.
Cuspidor and washbasin, Combined. A. C. Clark. No. 1,049,290; Dec. 31; Gaz. vol. 185; p. 1342.
Cuspidor-cleaner. L. D. Lawhon. No. 1,014,236; Jan. 9; Sp. p. 2556; Gaz. vol. 174; p. 426.
Cuspidor, Dental. A. C. Clark. No. 1,049,207; Dec. 31; Gaz. vol. 185; p. 1313.
Cuspidor for cars and the like. L. Doszpoly. No. 1,048,396; Dec. 24; Gaz. vol. 185; p. 996.
Cuspidor-holder. L. N. Salisbury. No. 1,036,476; Aug. 13; Gaz. vol. 181; p. 394.
Cuspidor-lifter. R. Henry. No. 1,026,354; May 14; Sp. p. 2801; Gaz. vol. 178; p. 465.
Cuspidor, Sanitary. E. Buck. No. 1,017,203; Feb. 13; Sp. p. 2177; Gaz. vol. 175; p. 370.
Cuspidor, Sanitary. W. Morey. No. 1,025,288; May 7; Sp. p. 389; Gaz. vol. 178; p. 64.
Cuspidor, Sanitary. N. Winsze and M. Plocher. No. 1,027,785; May 28; Sp. p. 5875; Gaz. vol. 178; p. 1022.
Cuspidor, Sanitary. H. H. Craft. No. 1,044,628; Nov. 19; Gaz. vol. 184; p. 612.
Cuspidor, Sanitary. G. L. Walker. No. 1,046,911; Dec. 10; Gaz. vol. 185; p. 426.
Cuspidors, Check-valve for. W. Pyzikowski. No. 1,015,069; Jan. 16; Sp. p. 4405; Gaz. vol. 174; p. 740.
Cut-off. H. F. Storer and W. W. Jamieson, Jr. No. 1,013,695; Jan. 2; Sp. p. 1350; Gaz. vol. 174; p. 210.
Cut-off. J. B. Pruden. No. 1,018,925; Feb. 27; Sp. p. 5967; Gaz. vol. 175; p. 1028.
Cut-off. W. T. Wood. No. 1,021,566; Mar. 26; Sp. p. 5464; Gaz. vol. 176; p. 982.
Cut-off device. W. F. Dickey. No. 1,036,807; Aug. 27; Gaz. vol. 181; p. 919.
Cut-off device. A. Kadow. No. 1,040,346; Oct. 8; Gaz. vol. 183; p. 256.
Cut-off device, Automatic rain-water-. L. and J. L. Heflin and C. E. Penisten. No. 1,030,175; June 18; Sp. p. 4565; Gaz. vol. 179; p. 789.
Cut-off device, Fluid-. H. Nold. No. 1,025,011; Apr. 30; Sp. p. 7022; Gaz. vol. 177; p. 1233.
Cut-off switch and lamp-socket, Combined automatic. F. O. Stallman. No. 1,039,835; Oct. 1; Gaz. vol. 183; p. 55.
Cut-out, Electrical low-speed. M. F. Owens. No. 1,047,557; Dec. 17; Gaz. vol. 185; p. 683.
Cut-out, Meter-testing. T. E. Murray. No. 1,028,254; June 4; Sp. p. 421; Gaz. vol. 179; p. 61.
Cutlery, &c., Device for cleansing. H. Folkes, Sr. No. 1,018,752; Feb. 27; Sp. p. 5616; Gaz. vol. 175; p. 971.
Cutlery, &c., Device for cleansing. H. Folkes, Sr. No. 1,018,753; Feb. 27; Sp. p. 5618; Gaz. vol. 175; p. 971.
Cutlery, tools, and the like in their handles, Fixing the tangs of table-. A. and E. Müller. No. 1,030,321; June 25; Sp. p. 4934; Gaz. vol. 179; p. 880.
Cutter: *See* Band-cutter; Bandage-roll cutter; Beet-top cutter; Bread-cutter; Butter-cutter; Cable and wire cutter; Cane-cutter; Cheese-cutter; Cigar-cutter; Cigar-tip cutter; Circular cutter; Cloth-cutter; Corn-cutter; Cornstalk-cutter; Cotton-stalk cutter; Dough-cutter; Feed-cutter; Fodder-cutter; Food-cutter; Fruit-cutter; Gear-cutter; Glass-gage cutter; Grass-cutter; Hair-cutter; Hay-cutter; Hinge-seat cutter; Ice-cutter; Ice-cream cutter; Meat-cutter; Meat and sausage cutter; Milling-cutter; Noodle-cutter; Paper-cutter; Paper-board cutter; Pipe-cutter; Pipe or tube cutter; Plane-cutter; Potato-cutter; Rice-field cutter; Rock-cutter; Rod-cutter; Rod and bolt cutter; Root-cutter; Rotary cutter; Screw-cutter; Seed-potato cutter; Shears-cutter; Sod-cutter; Stalk-cutter; Stereotype-plate cutter; Thread-cutter; Ticket-cutter; Tobacco-cutter; Turf-cutter; Twine-cutter; Vamp-cutter; Weed-cutter; Wire-cutter; Yarn-cutter.

Alphabetical list of inventions—Continued.

Cutter. G. Wieber. No. 1,020,865; Mar. 19; Sp. p. 3970; Gaz. vol. 176; p. 691.
Cutter. W. F. Hutchinson. No. 1,031,935; July 9; Gaz. vol. 180; p. 419.
Cutter. M. M. Currie. No. 1,032,381; July 16; Gaz. vol. 180; p. 615.
Cutter. E. W. Jones. No. 1,034,246; July 30; Gaz. vol. 180; p. 1312.
Cutter and mixer, Combined. C. S. Hardy. No. 1,022,315; Apr. 2; Sp. p. 1170; Gaz. vol. 177; p. 188.
Cutter-casing. T. N. Cass. No. 1,046,551; Dec. 10; Gaz. vol. 185; p. 302.
Cutter for forming irregular surfaces. C. J. Boyce. No. 1,031,318; July 2; Gaz. vol. 180; p. 166.
Cutter-head. K. S. Faucette. No. 1,013,540; Jan. 2; Sp. p. 982; Gaz. vol. 174; p. 157.
Cutter-head. H. T. Weirbach. No. 1,014,794; Jan. 16; Sp. p. 3796; Gaz. vol. 174; p. 645.
Cutter-head. M. Arbuthnot. No. 1,015,927; Jan. 30; Sp. p. 6233; Gaz. vol. 174; p. 1086.
Cutter-head. A. B. Landis. No. 1,017,882; Feb. 20; Sp. p. 3668; Gaz. vol. 175; p. 639.
Cutter-head. A. B. Landis. No. 1,017,883; Feb. 20; Sp. p. 3671; Gaz. vol. 175; p. 639.
Cutter-head. A. B. Landis. No. 1,017,884; Feb. 20; Sp. p. 3675; Gaz. vol. 175; p. 640.
Cutter-head. A. B. Landis. No. 1,017,885; Feb. 20; Sp. p. 3677; Gaz. vol. 175; p. 640.
Cutter-head. A. B. Landis. No. 1,017,886; Feb. 20; Sp. p. 3679; Gaz. vol. 175; p. 641.
Cutter-head. A. B. Landis. No. 1,017,887; Feb. 20; Sp. p. 3681; Gaz. vol. 175; p. 641.
Cutter-head. A. B. Landis. No. 1,017,888; Feb. 20; Sp. p. 3683; Gaz. vol. 175; p. 642.
Cutter-head. A. B. Landis. No. 1,017,890; Feb. 20; Sp. p. 3692; Gaz. vol. 175; p. 643.
Cutter-head. A. B. Landis. No. 1,017,891; Feb. 20; Sp. p. 3696; Gaz. vol. 175; p. 643.
Cutter-head. A. B. Landis. No. 1,017,892; Feb. 20; Sp. p. 3700; Gaz. vol. 175; p. 644.
Cutter-head. A. B. Landis. No. 1,018,393; Feb. 20; Sp. p. 4770; Gaz. vol. 175; p. 816.
Cutter-head. A. B. Landis. No. 1,018,394; Feb. 20; Sp. p. 4774; Gaz. vol. 175; p. 817.
Cutter-head. L. F. Hess. No. 1,019,251; Mar. 5; Sp. p. 535; Gaz. vol. 176; p. 85.
Cutter-head. C. D. Marsh. No. 1,021,202; Mar. 26; Sp. p. 4657; Gaz. vol. 176; p. 854.
Cutter-head. W. F. and J. D. Mattern. No. 1,025,149; May 7; Sp. p. 81; Gaz. vol. 178; p. 15.
Cutter-head. E. S. Shimer. No. 1,025,838; May 7; Sp. p. 1593; Gaz. vol. 178; p. 252.
Cutter-head. E. S. Shimer. No. 1,025,839; May 7; Sp. p. 1594; Gaz. vol. 178; p. 253.
Cutter-head. G. A. Gibeson. No. 1,032,891; July 16; Gaz. vol. 180; p. 787.
Cutter-head. J. H. Burke. No. 1,033,380; July 23; Gaz. vol. 180; p. 991.
Cutter-head. C. A. Haas. No. 1,043,225; Nov. 5; Gaz. vol. 184; p. 64.
Cutter-head. J. H. Copping. No. 1,047,752; Dec. 17; Gaz. vol. 185; p. 752.
Cutter-head and mechanism for actuating the dies thereof. V. R. Koontz. No. 1,048,081; Dec. 24; Gaz. vol. 185; p. 890.
Cutter-head gage. G. Watkins and S. M. Taylor. No. 1,026,136; May 14; Sp. p. 2309; Gaz. vol. 178; p. 390.
Cutter-head-keying device. W. D. Ash. No. 1,046,937; Dec. 10; Gaz. vol. 185; p. 435.
Cutter-head knives, Gage for setting. J. J. Salmer. No. 1,042,280; Oct. 22; Gaz. vol. 183; p. 980.
Cutter-heads, Bit-adjuster for rotary. E. G. Watkins. No. 1,032,636; July 16; Gaz. vol. 180; p. 701.
Cutter-heads, Holder for templet-gages for setting cutters in. J. Himes. No. 1,046,296; Dec. 3; Gaz. vol. 185; p. 173.
Cutter-holder. W. H. Binger. No. 1,042,190; Oct. 22; Gaz. vol. 183; p. 950.
Cutter-holder for cutter-heads. H. C. Hartzell. No. 1,039,054; Sept. 17; Gaz. vol. 182; p. 701.
Cutter-holding means. F. W. Taylor. No. 1,015,409; Jan. 23; Sp. p. 5128; Gaz. vol. 174; p. 881.
Cutter-securing means. F. A. Wagner. No. 1,047,466; Dec. 17; Gaz. vol. 185; p. 650.
Cutter-setting device. W. H. Oehler. No. 1,034,927; Aug. 6; Gaz. vol. 181; p. 176.
Cutting and folding machine. H. M. Barber. No. 1,013,919; Jan. 9; Sp. p. 1847; Gaz. vol. 174; p. 317.
Cutting and folding machine. E. H. Cottrell. No. 1,047,503; Dec. 17; Gaz. vol. 185; p. 663.
Cutting and marking die. S. G. Hollander. No. 1,030,781; June 25; Sp. p. 6183; Gaz. vol. 179; p. 1046.
Cutting and ornamenting sheet material, Device for. T. Lund. No. 1,048,842; Dec. 31; Gaz. vol. 185; p. 1189.
Cutting and printing machine. W. P. Marsh and H. E. Dill. No. 1,029,021; June 11; Sp. p. 2075; Gaz. vol. 179; p. 357.
Cutting and punching machine. S. A. Bostwick. No. 1,026,072; May 14; Sp. p. 2173; Gaz. vol. 178; p. 367.
Cutting and stamping machine. C. C. Gibson. No. 1,038,741; Sept. 17; Gaz. vol. 182; p. 598.
Cutting apparatus. J. C. Rust. No. 1,029,825; June 18; Sp. p. 3827; Gaz. vol. 179; p. 671.
Cutting apparatus. E. J. Wolfrom. No. 1,046,530; Dec. 10; Gaz. vol. 185; p. 294.
Cutting-block. J. B. Gilbert. No. 1,048,147; Dec. 24; Gaz. vol. 185; p. 913.
Cutting device. E. A. Stiggins. No. 1,027,510; May 28; Sp. p. 5318; Gaz. vol. 178; p. 932.
Cutting device. C. F. Billau. No. 1,028,667; June 4; Sp. p. 1302; Gaz. vol. 179; p. 200.
Cutting device. R. W. Jolly. No. 1,038,896; Sept. 17; Gaz. vol. 182; p. 652.
Cutting device. F. J. Schnorr. No. 1,049,156; Dec. 31; Gaz. vol. 185; p. 1296.
Cutting-die. L. Painchaud. No. 1,030,529; June 25; Sp. p. 5436; Gaz. vol. 179; p. 955.
Cutting holes in sheet metal, Device for. E. L. Schanck. No. 1,034,517; Aug. 6; Gaz. vol. 181; p. 39.
Cutting-machine. T. N. Shaw. No. 1,013,903; Jan. 9; Sp. p. 1818; Gaz. vol. 174; p. 311.
Cutting-machine. W. B. Wescott. No. 1,021,028; Mar. 26; Sp. p. 4224; Gaz. vol. 176; p. 798.
Cutting-machine. H. Fachs. No. 1,025,741; May 7; Sp. p. 1399; Gaz. vol. 178; p. 219.
Cutting-machine. T. N. Shaw. No. 1,043,472; Nov. 5; Gaz. vol. 184; p. 153.
Cutting-machine for cloth, leather, &c. F. W. Stork. No. 1,040,587; Oct. 8; Gaz. vol. 183; p. 341.
Cutting machine, Hand-hole-. C. L. Briggs. No. 1,023,619; Apr. 16; Sp. p. 3966; Gaz. vol. 177; p. 697.
Cutting-machine, Rotating disk. L. Anschel. No. 1,020,873; Mar. 19; Sp. p. 3982; Gaz. vol. 176; p. 694.
Cutting machinery. G. P. Schmidt. No. 1,025,927; May 7; Sp. p. 1828; Gaz. vol. 178; p. 282.
Cutting meat, lard, &c., by means of flat rotating knives, Machine for. O. Wefing. No. 1,028,510; June 4; Sp. p. 984; Gaz. vol. 179; p. 148.
Cutting-off tool. N. A. Johnson. No. 1,019,477; Mar. 5; Sp. p. 1080; Gaz. vol. 176; p. 160.
Cutting out and molding machine. E. L. Pourtauborde. No. 1,017,461; Feb. 13; Sp. p. 2733; Gaz. vol. 175; p. 460.
Cutting-tool. J. B. Compton. No. 1,034,345; July 30; Gaz. vol. 180; p. 1345.
Cutting-tool. A. A. Shapiro. No. 1,048,218; Dec. 24; Gaz. vol. 185; p. 936.
Cutting, Tool for radially-movable blades for circular. F. A. Babcock. No. 1,038,819; Sept. 17; Gaz. vol. 182; p. 626.
Cutting-tool, Rotary. F. S. Walters. No. 1,031,828; July 9; Gaz. vol. 180; p. 383.
Cyanid-cylinder. H. B. Meade. No. 1,038,173; Sept. 10; Gaz. vol. 182; p. 366.
Cyanid plant. A. F. Tanner. No. 1,034,532; Aug. 6; Gaz. vol. 181; p. 44.
Cyanid solutions, Precipitating apparatus for. D. Bosqui. No. 1,035,941; Aug. 20; Gaz. vol. 181; p. 589.
Cyanids and cyanamids, Producing. C. Bosch and A. Mittasch. No. 1,022,351; Apr. 2; Sp. p. 1248; Gaz. vol. 177; p. 200.
Cyanogen and its compounds, Obtaining. J. Buab. No. 1,032,988; July 16; Gaz. vol. 180; p. 819.
Cyanogen compounds, Producing. C. E. Acker. No. 1,019,002; Feb. 27; Sp. p. 6145; Gaz. vol. 175; p. 1056.
Cycle, Air-. J. H. Price. No. 1,013,952; Jan. 9; Sp. p. 1932; Gaz. vol. 174; p. 328.
Cycle and other saddles, Spring-support for motor-. F. Robinson. No. 1,015,712; Jan. 23; Sp. p. 5782; Gaz. vol. 174; p. 986.
Cycle carrying attachment, Motor-. A. L. Du Breuil. No. 1,044,867; Nov. 19; Gaz. vol. 184; p. 695.
Cycle driving-belt, Motor-. C. T. L. von Rabenau. No. 1,028,783; June 4; Sp. p. 1537; Gaz. vol. 179; p. 239.
Cycle-fork. G. Cummings. No. 1,014,285; Jan. 9; Sp. p. 2653; Gaz. vol. 174; p. 442.
Cycle frame, Motor-. G. W. Breed. No. 1,015,418; Jan. 23; Sp. p. 5147; Gaz. vol. 174; p. 884.
Cycle frame, Motor-. J. M. Michaelson. No. 1,047,430; Dec. 17; Gaz. vol. 185; p. 637.
Cycle frame, Motor-. J. M. Michaelson. No. 1,047,431; Dec. 17; Gaz. vol. 185; p. 637.
Cycle-frame rear-wheel fitting. C. G. McKellar. No. 1,024,216; Apr. 23; Sp. p. 5276; Gaz. vol. 177; p. 925.
Cycle-globe, Amusement. H. Richmond and C. E. Barber. No. 1,027,069; May 21; Sp. p. 4415; Gaz. vol. 178; p. 746.
Cycle handle, Motor-. W. F. Boast and W. B. Conrad. No. 1,030,866; July 2; Gaz. vol. 180; p. 6.
Cycle, Motor-. M. W. Stuart. No. 1,035,917; Aug. 20; Gaz. vol. 181; p. 581.
Cycle, Motor-. E. O. Himes. No. 1,039,943; Oct. 1; Gaz. vol. 183; p. 90.
Cycle, Motor-. A. A. Horton. No. 1,044,051; Nov. 12; Gaz. vol. 184; p. 383.
Cycle, motor-cycle, and vehicle mud-guard. W. R. Birt, Jr. No. 1,034,066; July 30; Gaz. vol. 180; p. 1250.
Cycle, motor-cycle, and vehicle mud-guard flap. W. R. Birt, Jr. No. 1,034,067; July 30; Gaz. vol. 180; p. 1250.

Alphabetical list of inventions—Continued.

Cycle rear-seat spring, Motor-. F. E. and R. A. Palin. No. 1,026,115; May 14; Sp. p. 2269; Gaz. vol. 178; p. 383.
Cycle running-gear, Motor-. C. Hendricksen. No. 1,022,675; Apr. 9; Sp. p. 1956; Gaz. vol. 177; p. 340.
Cycle saddle, Motor-. F. Mesinger. No. 1,036,877; Aug. 27; Gaz. vol. 181; p. 942.
Cycle saddle, Motor-. H. Mesinger. No. 1,037,287; Sept. 3; Gaz. vol. 182; p. 36.
Cycle saddle, Motor-. F. Mesinger. No. 1,045,999; Dec. 3; Gaz. vol. 185; p. 68.
Cycle-saddle, seat, stool, and the like. T. Shepherd. No. 1,044,272; Nov. 12; Gaz. vol. 184; p. 459.
Cycle seat and carrier, Motor-. C. J. Embree. No. 1,020,486; Mar. 19; Sp. p. 3127; Gaz. vol. 176; p. 564.
Cycle seat attachment, Motor-. F. R. Covey and C. F. Hoag. No. 1,027,992; May 28; Sp. p. 6367; Gaz. vol. 178; p. 1094.
Cycle-seat or the like. V. W. Phillips. No. 1,036,702; Aug. 27; Gaz. vol. 181; p. 884.
Cycle shock-absorber, Motor-. A. B. Anzi. No. 1,039,684; Oct. 1; Gaz. vol. 183; p. 3.
Cycle spring-frame. E. Héroguez. No. 1,045,025; Nov. 19; Gaz. vol. 184; p. 750.
Cycle spring-frame, Motor-. C. G. Stephenson. No. 1,029,771; June 18; Sp. p. 3694; Gaz. vol. 179; p. 651.
Cycle spring-frame, Motor-. F. T. Koehn. No. 1,042,563; Oct. 29; Gaz. vol. 183; p. 1106.
Cycle spring-frame. Motor-. C. G. Stephenson. No. 1,043,269; Nov. 5; Gaz. vol. 184; p. 79.
Cycle stand, Motor-. S. T. Steinberger. No. 1,039,838; Oct. 1; Gaz. vol. 183; p. 57.
Cycle starting device, Motor-. F. A. Burrows. No. 1,021,657; Mar. 26; Sp. p. 5619; Gaz. vol. 176; p. 1011.
Cycles and motor-cycles, Spring-fork for. S. R. Ridgway. No. 1,042,480; Oct. 29; Gaz. vol. 183; p. 1077.
Cycles and the like, Saddle-support for motor-. W. H. Bradley. No. 1,044,436; Nov. 12; Gaz. vol. 184; p. 515.
Cycles and the like, Shock-absorber for motor-. A. L. Walters. No. 1,042,060; Oct. 22; Gaz. vol. 183; p. 908.
Cycles, Detachable mud-guard and dress-protector for motor-. G. H. Blake. No. 1,027,806; May 28; Sp. p. 5930; Gaz. vol. 178; p. 1030.
Cycles, Elastic pedal-crank for. A. Walter. No. 1,021,957; Apr. 2; Sp. p. 443; Gaz. vol. 177; p. 71.
Cycles, Grip-control mechanism for motor-. W. G. Henderson. No. 1,022,081; Apr. 2; Sp. p. 695; Gaz. vol. 177; p. 111.
Cycles, Luggage and like carrier for. G. E. Hormbrey. No. 1,021,044; Mar. 26; Sp. p. 4335; Gaz. vol. 176; p. 804.
Cycles, motor-cycles, and like machines, Saddle for. E. Lycett. No. 1,023,744; Apr. 16; Sp. p. 4177; Gaz. vol. 177; p. 734.
Cycles or the like, Handle-grip control for motor-. S. J. Chubbuck. No. 1,019,304; Mar. 5; Sp. p. 671; Gaz. vol. 176; p. 104.
Cycles, Parcel-carrier for motor-. D. S. Popini. No. 1,013,684; Jan. 2; Sp. p. 1332; Gaz. vol. 174; p. 206.
Cycles, Resilient driving mechanism for motor-. A. A. Dove. No. 1,028,335; June 4; Sp. p. 587; Gaz. vol. 179; p. 88.
Cycles, &c., Saddle for motor-. C. E. Chapman. No. 1,019,597; Mar. 5; Sp. p. 1319; Gaz. vol. 176; p. 198.
Cylinder-supporting means. A. M. E. Grignard. No. 1,047,206; Dec. 17; Gaz. vol. 185; p. 558.
Cylinder, Toothed. F. C. Stevens. No. 1,022,896; Apr. 9; Sp. p. 2433; Gaz. vol. 177; p. 416.
Cylinder, Toothed. F. C. Stevens. No. 1,031,097; July 2; Gaz. vol. 180; p. 89.
Cylinders, Making toothed-wire-covered. A. C. Sargent. No. 1,016,098; Jan. 30; Sp. p. 6610; Gaz. vol. 174; p. 1148.
Cylinders, Sole-plate for. T. L. Egnor. No. 1,047,771; Dec. 17; Gaz. vol. 185; p. 758.
Cylindrical drier. F. A. Rundle. No. 1,044,084; Nov. 12; Gaz. vol. 184; p. 395.
Cystoscope. R. H. Wappler. No. 1,021,809; Apr. 2; Sp. p. 110; Gaz. vol. 177; p. 22.
Cystoscope. R. H. Wappler and R. Jung. No. 1,021,810; Apr. 2; Sp. p. 112; Gaz. vol. 177; p. 22.
Dagger, Stage-. J. E. Banner. No. 1,016,727; Feb. 6; Sp. p. 1114; Gaz. vol. 175; p. 171.
Dam. F. L. Vars. No. 1,047,342; Dec. 17; Gaz. vol. 185; p. 609.
Dam. W. W. Colpitts. No. 1,047,501; Dec. 17; Gaz. vol. 185; p. 663.
Dam and hydraulic-power transmitter. W. H. Baker. No. 1,042,381; Oct. 29; Gaz. vol. 183; p. 1040.
Dam, Portable ditch-. A. Cadwallader. No. 1,027,235; May 21; Sp. p. 4761; Gaz. vol. 178; p. 801.
Dam, Underflow gravity-. U. G. McCoy. No. 1,034,269; July 30; Gaz. vol. 180; p. 1320.
Dams or dikes, Wall construction for. W. E. Pedley. No. 1,013,610; Jan. 2; Sp. p. 1125; Gaz. vol. 174; p. 180.
Dampener, Clothes-. P. M. Haw. No. 1,036,840; Aug. 27; Gaz. vol. 181; p. 930.
Dampening apparatus. G. H. Bishop. No. 1,030,380; June 25; Sp. p. 5056; Gaz. vol. 179; p. 902.
Dampening-machine. C. J. Prankard, Jr. No. 1,027,275; May 21; Sp. p. 4835; Gaz. vol. 178; p. 815.
Damper. H. Rosenberg. No. 1,013,819; Jan. 2; Sp. p. 1587; Gaz. vol. 174; p. 253.
Damper. W. S. Mumford. No. 1,020,216; Mar. 12; Sp. p. 2585; Gaz. vol. 176; p. 439.
Damper. L. J. Mueller, Jr. No. 1,023,866; Apr. 23; Sp. p. 4480; Gaz. vol. 177; p. 803.
Damper. W. J. Moreland. No. 1,024,946; Apr. 30; Sp. p. 6898; Gaz. vol. 177; p. 1212.
Damper. D. W. Powers. No. 1,034,507; Aug. 6; Gaz. vol. 181; p. 36.
Damper, Automatic spring-. M. F. Gibbons. No. 1,039,512; Sept. 24; Gaz. vol. 182; p. 880.
Damper, Check-. J. Demarest. No. 1,027,037; May 21; Sp. p. 4331; Gaz. vol. 178; p. 735.
Damper control, Electric. F. Huff. No. 1,020,606; Mar. 19; Sp. p. 3398; Gaz. vol. 176; p. 603.
Damper, Fireplace-. S. F. Myers. No. 1,047,434; Dec. 17; Gaz. vol. 185; p. 638.
Damper, Flue-. J. White. No. 1,023,232; Apr. 16; Sp. p. 3185; Gaz. vol. 177; p. 570.
Damper-regulating apparatus. E. J. Deegan. (Reissue.) No. 13,346; Jan. 2; Sp. p. 1690; Gaz. vol. 174; p. 267.
Damper-regulator. G. W. Bigelow. No. 1,017,731; Feb. 20; Sp. p. 3266; Gaz. vol. 175; p. 585.
Damper-regulator. I. A. Backlund. No. 1,032,176; July 9; Gaz. vol. 180; p. 499.
Damper-regulator. N. G. Copley. No. 1,034,084; July 30; Gaz. vol. 180; p. 1255.
Damper, &c., regulator. O. E. Williams. No. 1,046,922; Dec. 10; Gaz. vol. 185; p. 430.
Damper-regulator. H. Munzer. No. 1,048,090; Dec. 24; Gaz. vol. 185; p. 894.
Damper-regulator, Automatic. E. A. Orr. No. 1,014,845; Jan. 16; Sp. p. 3921; Gaz. vol. 174; p. 664.
Damper-regulator, Automatic. H. J. Carpenter. No. 1,044,988; Nov. 19; Gaz. vol. 184; p. 738.
Dark chamber, Portable folding. W. Macke. No. 1,027,662; May 28; Sp. p. 5625; Gaz. vol. 178; p. 982.
Dark room, Portable. A. v. Bajkay. No. 1,032,728; July 16; Gaz. vol. 180; p. 734.
Darning-ball and handy implement, Combination. H. C. Cook. No. 1,048,296; Dec. 24; Gaz. vol. 185; p. 961.
Dash-pot. A. C. Livermore. No. 1,039,555; Sept. 24; Gaz. vol. 182; p. 895.
Dates, dried fruit, and the like, Device for handling. E. M. Stiles. No. 1,043,168; Nov. 5; Gaz. vol. 184; p. 44.
Dauber, Shoe-. J. R. Cygon. No. 1,044,355; Nov. 12; Gaz. vol. 184; p. 488.
Davenport. D. E. Sweeney. No. 1,014,535; Jan. 9; Sp. p. 3162; Gaz. vol. 174; p. 526.
Davenport. J. Luppino. No. 1,018,122; Feb. 20; Sp. p. 4209; Gaz. vol. 175; p. 723.
Davenport. M. Clune. No. 1,043,068; Nov. 5; Gaz. vol. 184; p. 6.
Davenport. E. C. Fisher. No. 1,043,413; Nov. 5; Gaz. vol. 184; p. 131.
Davenport. R. C. Thum, L. C. Umphrey, and M. Clune. No. 1,043,482; Nov. 5; Gaz. vol. 184; p. 157.
Davenport. W. Van Derzee. No. 1,043,552; Nov. 5; Gaz. vol. 184; p. 182.
Davenport, Folding. G. W. Henry. No. 1,032,543; July 16; Gaz. vol. 180; p. 543.
Davit. O. E. Knoph. No. 1,043,607; Nov. 5; Gaz. vol. 184; p. 200.
Davit and means for operating the same, Ship's. W. L. Messick. No. 1,021,545; Mar. 26; Sp. p. 5416; Gaz. vol. 176; p. 975.
Davit and the raising and lowering gear therefor, Boat's. J. Graham. No. 1,024,507; Apr. 30; Sp. p. 5929; Gaz. vol. 177; p. 1058.
Davit, Boat-. C. E. Waterworth. No. 1,040,822; Oct. 8; Gaz. vol. 183; p. 422.
Davit-hook. C. A. Petrie. No. 1,043,625; Nov. 5; Gaz. vol. 184; p. 206.
Day and night glass. L. Henle. No. 1,042,346; Oct. 22; Gaz. vol. 183; p. 1002.
Deckle-strap. F. L. Smith. No. 1,022,513; Apr. 9; Sp. p. 1595; Gaz. vol. 177; p. 285.
Decorated fabric. J. A. Groebli. No. 1,024,891; Apr. 30; Sp. p. 6775; Gaz. vol. 177; p. 1192.
Decorated fabric. F. Rink. No. 1,026,125; May 14; Sp. p. 2291; Gaz. vol. 178; p. 386.
Decorated fabric. G. H. Taylor. No. 1,026,131; May 14; Sp. p. 2302; Gaz. vol. 178; p. 388.
Decorticating-machine. L. Lavedan and H. Amigues. No. 1,017,104; Feb. 13; Sp. p. 1956; Gaz. vol. 175; p. 336.
Decorticating-machine. E. Delafond. No. 1,023,508; Apr. 16; Sp. p. 3731; Gaz. vol. 177; p. 660.
Decorticating-machine. H. W. Gabbett-Fairfax. No. 1,038,339; Sept. 10; Gaz. vol. 182; p. 422.
Decorticating machine, Flax-. W. J. Hollier. No. 1,023,152; Apr. 16; Sp. p. 3025; Gaz. vol. 177; p. 543.
Decoy, Duck-. M. B. Baker and J. A. Kender. No. 1,021,910; Apr. 2; Sp. p. 330; Gaz. vol. 177; p. 55.
Defibrating-machine. R. A. Wilson. No. 1,037,389; Sept. 3; Gaz. vol. 182; p. 71.

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Deflectometer. W. Fentzloff. No. 1,015,305; Jan. 23; Sp. p. 4888; Gaz. vol. 174; p. 846.
Deflector and ventilator, Combined. T. T. Peddy and G. F. Gallagher. No. 1,025,832; May 7; Sp. p. 1580; Gaz. vol. 178; p. 251.
Deflector, Flame-. E. Mireau. No. 1,022,436; Apr. 9; Sp. p. 1450; Gaz. vol. 177; p. 260.
Dehairing mechanism, Carcass-. A. Hannaford. No. 1,016,495; Feb. 6; Sp. p. 584; Gaz. vol. 175; p. 91.
Dehydrated mixtures, Preparing. E. G. Acheson. No. 1,030,372; June 25; Sp. p. 5040; Gaz. vol. 179; p. 899.
Dehydrated potatoes and preparing the same. E. W. Cooke. No. 1,025,373; May 7; Sp. p. 595; Gaz. vol. 178; p. 92.
Dehydrating animal and vegetable substances. E. W. Cooke. No. 1,025,374; May 7; Sp. p. 597; Gaz. vol. 178; p. 93.
Delinters, Float for. G. L. Blanchard. No. 1,015,724; Jan. 23; Sp. p. 5805; Gaz. vol. 174; p. 990.
Delinting apparatus. H. E. Hawk. No. 1,041,468; Oct. 15; Gaz. vol. 183; p. 672.
Delinting-machine. W. A. Pollock. No. 1,032,938; July 16; Gaz. vol. 180; p. 802.
Delinting-machine. W. S. Cannaday. No. 1,035,316; Aug. 13; Gaz. vol. 181; p. 339.
Delivering apparatus. J. N. Johnson. No. 1,037,629; Sept. 3; Gaz. vol. 182; p. 151.
Delivery appliance. C. Hoth. No. 1,018,497; Feb. 27; Sp. p. 5022; Gaz. vol. 175; p. 884.
Delivery-goods receiver. I. T. Verdin. No. 1,028,918; June 11; Sp. p. 1849; Gaz. vol. 179; p. 321.
Delivery-machine. W. Sutcliffe and G. R. Stillman. No. 1,042,620; Oct. 29; Gaz. vol. 183; p. 1127.
Delivery mechanism. W. Scott. No. 1,027,283; May 21, Sp. p. 4858; Gaz. vol. 178; p. 818.
Delivery mechanism. H. C. Gammeter. No. 1,044,450; Nov. 12; Gaz. vol. 184; p. 519.
Delivery-receptacle. A. B. Cowles. No. 1,020,539; Mar. 19; Sp. p. 3248; Gaz. vol. 176; p. 581.
Delivery system, Electric. J. Bailey. No. 1,020,016; Mar. 12; Sp. p. 2151; Gaz. vol. 176; p. 371.
Demonstrating device. H. R. Priest. No. 1,034,297; July 30; Gaz. vol. 180; p. 1329.
Demonstrating-machine. W. R. Rae. No. 1,029,223; June 11; Sp. p. 2497; Gaz. vol. 179; p. 425.
Dental and other purposes, Swaging device for. R. Lamb. No. 1,044,892; Nov. 19; Gaz. vol. 184; p. 704.
Dental apparatus. F. E. Buck. No. 1,036,441; Aug. 20; Gaz. vol. 181; p. 763.
Dental apparatus. J. M. Gilmore. No. 1,039,728; Oct. 1; Gaz. vol. 183; p. 20.
Dental apparatus. R. E. Zellers. No. 1,043,284; Nov. 5; Gaz. vol. 184; p. 84.
Dental apparatus. J. P. Flaherty. No. 1,046,166; Dec. 3; Gaz. vol. 185; p. 126.
Dental apparatus for removing wax from the teeth. P. H. Sands. No. 1,031,737; July 9; Gaz. vol. 180; p. 351.
Dental appliance. W. F. Davison. No. 1,031,533; July 2; Gaz. vol. 180; p. 237.
Dental articulator. E. Eltner. No. 1,033,562; July 23; Gaz. vol. 180; p. 1050.
Dental articulator. A. Gysi. No. 1,041,270; Oct. 15; Gaz. vol. 183; p. 606.
Dental articulator. T. H. Montague. No. 1,045,586; Nov. 26; Gaz. vol. 184; p. 976.
Dental articulators, Platform for. G. B. Snow. No. 1,029,149; June 11; Sp. p. 2347; Gaz. vol. 179; p. 400.
Dental bridge, crown, and plate work, &c., Facing and backing for. W. W. Atkinson. No. 1,032,103; July 9; Gaz. vol. 180; p. 474.
Dental bridges and plates, Anchorage for. S. F. Gilmore. No. 1,022,070; Apr. 2; Sp. p. 676; Gaz. vol. 177; p. 108.
Dental broach. L. L. Funk. No. 1,022,838; Apr. 9; Sp. p. 2325; Gaz. vol. 177; p. 398.
Dental broach and holder. D. A. Rosenthal. No. 1,035,239; Aug. 13; Gaz. vol. 181; p. 311.
Dental casting-machine. F. A. Carter. No. 1,036,563; Aug. 27; Gaz. vol. 181; p. 838.
Dental-casting pressure-tool. H. Schweitzer. No. 1,046,113; Dec. 3; Gaz. vol. 185; p. 108.
Dental castings, Preparation of molds for. H. Schweitzer. No. 1,046,114; Dec. 3; Gaz. vol. 185; p. 109.
Dental cervical-margin clamp. J. W. Ivory. No. 1,032,833; July 16; Gaz. vol. 180; p. 769.
Dental-chair arm. G. W. Grant. No. 1,014,702; Jan. 16; Sp. p. 3588; Gaz. vol. 174; p. 614.
Dental cleaning device. G. B. Hakins. No. 1,014,594; Jan. 9; Sp. p. 3273; Gaz. vol. 174; p. 546.
Dental crown and backing. R. E. Campbell. No. 1,028,539; June 4; Sp. p. 1036; Gaz. vol. 179; p. 158.
Dental disk-guide. J. B. Schlund. No. 1,042,039; Oct. 22; Gaz. vol. 183; p. 901.
Dental disk-holder. J. A. Prescott. No. 1,018,340; Feb. 20; Sp. p. 4637; Gaz. vol. 175; p. 797.
Dental engine. O. H. and A. F. Pieper. No. 1,040,576; Oct. 8; Gaz. vol. 183; p. 337.
Dental engine. O. H. and A. F. Pieper. No. 1,040,577; Oct. 8; Gaz. vol. 183; p. 337.
Dental fillings, bridges, and the like, Apparatus for making. D. S. Mackenzie. No. 1,048,982; Dec. 31; Gaz. vol. 185; p. 1236.
Dental floss-package. A. Bauer. No. 1,040,490; Oct. 8; Gaz. vol. 183; p. 305.
Dental form. R. J. Wenker. No. 1,045,920; Dec. 3; Gaz. vol. 185; p. 43.
Dental gold-cap-crown remover. I. B. Kenney. No. 1,041,098; Oct. 15; Gaz. vol. 183; p. 548.
Dental hand porte-polisher. J. W. Ivory. No. 1,021,527; Mar. 26; Sp. p. 5385; Gaz. vol. 176; p. 969.
Dental-handpiece water-dropper. C. S. Jorgens. No. 1,033,592; July 23; Gaz. vol. 180; p. 1060.
Dental handpieces, Angle attachment for. J. A. MacDonald. No. 1,039,420; Sept. 24; Gaz. vol. 182; p. 847.
Dental impression-cup. M. Marcks. No. 1,023,213; Apr. 16; Sp. p. 3156; Gaz. vol. 177; p. 565.
Dental impression-tray. E. E. Wightman. No. 1,044,614; Nov. 19; Gaz. vol. 184; p. 608.
Dental inlays, Making. J. P. Lederle. No. 1,013,666; Jan. 2; Sp. p. 1275; Gaz. vol. 174; p. 199.
Dental instrument. S. D. Ruggles. No. 1,033,942; July 30; Gaz. vol. 180; p. 1205.
Dental instrument. D. E. Coulson. No. 1,046,560; Dec. 10; Gaz. vol. 185; p. 305.
Dental instrument-guard. J. Neil, Jr. No. 1,021,065; Mar. 26; Sp. p. 4372; Gaz. vol. 176; p. 811.
Dental lathe attachment. W. F. Richards. No. 1,032,241; July 9; Gaz. vol. 180; p. 522.
Dental mirror. E. P. Beadles. No. 1,029,258; June 11; Sp. p. 2574; Gaz. vol. 179; p. 437.
Dental mold. B. C. Moll. No. 1,037,962; Sept. 10; Gaz. vol. 182; p. 298.
Dental pivot-crown remover. V. B. Dalton. No. 1,041,601; Oct. 15; Gaz. vol. 183; p. 714.
Dental plate. H. J. Smith. No. 1,024,153; Apr. 23; Sp. p. 5131; Gaz. vol. 177; p. 902.
Dental plates, Method and means for producing. H. J. Smith. No. 1,024,152; Apr. 23; Sp. p. 5129; Gaz. vol. 177; p. 902.
Dental plunger. W. A. Salt. No. 1,040,424; Oct. 8; Gaz. vol. 183; p. 283.
Dental post-extractor. T. W. Ross. No. 1,021,893; Apr. 2; Sp. p. 305; Gaz. vol. 177; p. 50.
Dental post-extractor. T. W. Ross. No. 1,035,744; Aug. 13; Gaz. vol. 181; p. 483.
Dental press. F. O. Jaques, Jr. No. 1,013,940; Jan. 9; Sp. p. 1903; Gaz. vol. 174; p. 324.
Dental process. F. A. Carter. No. 1,036,561; Aug. 27; Gaz. vol. 181; p. 838.
Dental purposes, Casting device for. J. F. and W. G. Alexander. No. 1,038,063; Sept. 10; Gaz. vol. 182; p. 331.
Dental regulator. H. A. Pullen. No. 1,023,273; Apr. 16; Sp. p. 3280; Gaz. vol. 177; p. 586.
Dental speculum and saliva-ejector, Combined. F. L. Marshall. No. 1,042,133; Oct. 22; Gaz. vol. 183; p. 932.
Dental spindles, Guard-sleeve for. J. H. Abbott. No. 1,030,856; July 2; Gaz. vol. 180; p. 3.
Dental stool. C. M. Hedman. No. 1,044,523; Nov. 19; Gaz. vol. 184; p. 575.
Dental swage. J. B. Sedberry. No. 1,016,786; Feb. 6; Sp. p. 1237; Gaz. vol. 175; p. 190.
Dental syringe. G. McMann. No. 1,033,819; July 30; Gaz. vol. 180; p. 1161.
Dental tool. C. L. Gibbs. No. 1,014,056; Jan. 9; Sp. p. 2167; Gaz. vol. 174; p. 362.
Dental tool. V. Lasbury. No. 1,015,039; Jan. 16; Sp. p. 4345; Gaz. vol. 174; p. 730.
Dental tool for removing crown-pins. G. T. Carpenter. (Reissue.) No. 13,361; Jan. 16; Sp. p. 4817; Gaz. vol. 174; p. 811.
Dental tooth regulating and retaining appliance. E. H. Angle. No. 1,014,028; Jan. 9; Sp. p. 2102; Gaz. vol. 174; p. 353.
Dental tooth-regulating appliance. F. A. Gough. No. 1,013,993; Jan. 9; Sp. p. 2022; Gaz. vol. 174; p. 341.
Dental tooth-regulating appliance. E. H. Angle. No. 1,014,029; Jan. 9; Sp. p. 2105; Gaz. vol. 174; p. 353.
Dental tooth-regulating appliance. E. H. Angle. No. 1,014,030; Jan. 9; Sp. p. 2107; Gaz. vol. 174; p. 353.
Dental tooth-regulating appliance. E. H. Angle and J. L. Young. No. 1,039,683; Oct. 1; Gaz. vol. 183; p. 3.
Dental vulcanizer. G. L. Bruce. No. 1,034,764; Aug. 6; Gaz. vol. 181; p. 122.
Dental waste-receptacle, Sanitary. T. S. Harlan. No. 1,022,316; Apr. 2; Sp. p. 1172; Gaz. vol. 177; p. 188.
Dental work, Making wax patterns for castings for. A. W. Tatham. No. 1,033,489; July 23; Gaz. vol. 180; p. 1026.
Dental work, Means for protecting. A. R. De Pass. No. 1,019,733; Mar. 5; Sp. p. 1571; Gaz. vol. 176; p. 244.
Dental work, Protecting. A. R. De Pass. No. 1,035,950; Aug. 20; Gaz. vol. 181; p. 592.
Dentimeter. W. B. Struble, Jr. No. 1,036,927; Aug. 27; Gaz. vol. 181; p. 958.
Dentist's anvil. L. F. Koehler. No. 1,018,712; Feb. 27; Sp. p. 5522; Gaz. vol. 175; p. 956.
Dentist's anvil. L. F. Koehler. No. 1,018,713; Feb. 27; Sp. p. 5524; Gaz. vol. 175; p. 957.
Denture. L. Greenbaum. No. 1,028,017; May 28; Sp. p. 6415; Gaz. vol. 178; p. 1101.
Denture, Artificial. E. C. Bennett. No. 1,013,111; Jan. 2; Sp. p. 33; Gaz. vol. 174; p. 8.

Alphabetical list of inventions—Continued.

Depilator. J. Sabo. No. 1,036,725; Aug. 27; Gaz. vol. 181; p. 892.
Depilatory and making it. A. H. Stone. No. 1,041,897; Oct. 22; Gaz. vol. 183; p. 854.
Deposit and collection receptacle. J. Hartman. No. 1,046,784; Dec. 10; Gaz. vol. 185; p. 385.
Depositing device. H. B. Goss. No. 1,035,180; Aug. 13; Gaz. vol. 181; p. 291.
Depositing-machine. E. Herisse. No. 1,014,874; Jan. 16; Sp. p. 3986; Gaz. vol. 174; p. 674.
Depository and accounting device. F. Whallon. No. 1,018,283; Feb. 20; Sp. p. 4527; Gaz. vol. 175; p. 778.
Depository, Article-. A. H. Fry. No. 1,047,035; Dec. 10; Gaz. vol. 185; p. 467.
Derailing device. G. H. Frazier and J. M. Catlic. No. 1,046,381; Dec. 3; Gaz. vol. 185; p. 203.
Derailment-preventer. J. W. McLean. No. 1,028,585; June 4; Sp. p. 1141; Gaz. vol. 179; p. 173.
Derrick. E. Swensson. No. 1,018,529; Feb. 27; Sp. p. 5134; Gaz. vol. 175; p. 894.
Derrick. W. F. and E. W. Muth. No. 1,023,327; Apr. 16; Sp. p. 3383; Gaz. vol. 177; p. 604.
Derrick. V. O. Barlow and J. Holman. No. 1,024,665; Apr. 30; Sp. p. 6311; Gaz. vol. 177; p. 1112.
Derrick. H. A. Bowers. No. 1,030,640; June 25; Sp. p. 5809; Gaz. vol. 179; p. 996.
Derrick. F. J. Blake. No. 1,031,037; July 2; Gaz. vol. 180; p. 66.
Derrick. J. M. Kane. No. 1,031,123; July 2; Gaz. vol. 180; p. 97.
Derrick. J. L. Taylor. No. 1,032,251; July 9; Gaz. vol. 180; p. 525.
Derrick. J. S. Allen. No. 1,033,652; July 23; Gaz. vol. 180; p. 1080.
Derrick. J. C. Boehm. No. 1,043,394; Nov. 5; Gaz. vol. 184; p. 125.
Derrick connection. W. Bishop. No. 1,026,845; May 21; Sp. p. 3860; Gaz. vol. 178; p. 667.
Derrick for erecting poles. E. Howland. No. 1,049,094; Dec. 31; Gaz. vol. 185; p. 1276.
Derrick-guys, &c., Means for coupling. P. B. McCaghey. No. 1,047,965; Dec. 24; Gaz. vol. 185; p. 852.
Derrick, Hay-. W. A. Brittain. No. 1,035,311; Aug. 13; Gaz. vol. 181; p. 337.
Derrick, Pole-. D. A. Manross. No. 1,015,236; Jan. 16; Sp. p. 4720; Gaz. vol. 174; p. 795.
Derrick, Portable. M. G. Bean. No. 1,030,765; June 25; Sp. p. 6120; Gaz. vol. 179; p. 1039.
Desiccating. W. H. Allen. No. 1,040,486; Oct. 8; Gaz. vol. 183; p. 303.
Desiccating apparatus. J. C. MacLachlen. No. 1,038,773; Sept. 17; Gaz. vol. 182; p. 609.
Desiccating apparatus. J. M. Gabler-Salliter. No. 1,046,767; Dec. 10; Gaz. vol. 185; p. 379.
Desiccating fluid substances, Apparatus for. W. S. Osborne. No. 1,028,267; June 4; Sp. p. 446; Gaz. vol. 179; p. 65.
Desiccating process. P. Bévenot and E. de Neveu. No. 1,020,632; Mar. 19; Sp. p. 3465; Gaz. vol. 176; p. 612.
Designs, Device for making. L. L. Allen. No. 1,039,474; Sept. 24; Gaz. vol. 182; p. 866.
Desk. J. A. Peek. No. 1,016,952; Feb. 13; Sp. p. 1607; Gaz. vol. 175; p. 283.
Desk. E. Baltzley. No. 1,028,424; June 4; Sp. p. 792; Gaz. vol. 179; p. 120.
Desk. S. Garavagno. No. 1,033,575; July 23; Gaz. vol. 180; p. 1055.
Desk. E. G. Budd. No. 1,046,731; Dec. 10; Gaz. vol. 185; p. 365.
Desk and register, Combined. J. E. Winchel. No. 1,017,357; Feb. 13; Sp. p. 2495; Gaz. vol. 175; p. 423.
Desk and seat, Adjustable school. S. M. Jones. No. 1,033,591; July 23; Gaz. vol. 180; p. 1060.
Desk and seat, Combination school. F. W. Else. No. 1,013,141; Jan. 2; Sp. p. 101; Gaz. vol. 174; p. 18.
Desk-pad. M. W. Floto. No. 1,037,607; Sept. 3; Gaz. vol. 182; p. 144.
Desk, Reading-. P. Baillod. No. 1,020,875; Mar. 19; Sp. p. 3984; Gaz. vol. 176; p. 694.
Desk safety device, Cash-. W. Eichelkraut. No. 1,023,461; Apr. 16; Sp. p. 3638; Gaz. vol. 177; p. 645.
Desk, Stenographer's. J. C. Long. No. 1,023,432; Apr. 16; Sp. p. 3579; Gaz. vol. 177; p. 636.
Desk, Stenographer's. J. C. Long. No. 1,039,979; Oct. 1; Gaz. vol. 183; p. 103.
Desk-table. J. Herzog. No. 1,031,791; July 9; Gaz. vol. 180; p. 369.
Desk, Writing-. J. L. Dow. No. 1,013,868; Jan. 9; Sp. p. 1737; Gaz. vol. 174; p. 300.
Detachable handle for hand-baggage. J. R. Scott. No. 1,035,483; Aug. 13; Gaz. vol. 181; p. 397.
Detachable roller. A. W. Kaufman. No. 1,023,939; Apr. 23; Sp. p. 4662; Gaz. vol. 177; p. 828.
Detachable spindle. C. B. Wilson. No. 1,028,090; May 28; Sp. p. 6601; Gaz. vol. 178; p. 1124.
Detachable wheel. J. V. Pugh. No. 1,031,583; July 2; Gaz. vol. 180; p. 254.
Detecting and observing forces, Method and apparatus for. A. C. Crehore and G. O. Squier. No. 1,044,502; Nov. 19; Gaz. vol. 184; p. 567.
Detector: *See* Gas-meter detector.
Detector. F. G. Sargent. No. 1,013,223; Jan. 2; Sp. p. 298; Gaz. vol. 174; p. 47.
Detergents, Manufacture of. W. R. Ormandy and J. W. Spensley. No. 1,036,316; Aug. 20; Gaz. vol. 181; p. 720.
Detergents, Manufacture of. W. R. Ormandy and J. W. Spensley. No. 1,046,847; Dec. 10; Gaz. vol. 185; p. 404.
Detersive agents, Manufacture of. R. Macpherson and W. E. Heys. No. 1,027,744; May 28; Sp. p. 5788; Gaz. vol. 178; p. 1009.
Detinning-machine. W. M. Connor. No. 1,021,302; Mar. 26; Sp. p. 4874; Gaz. vol. 176; p. 890.
Detonating alarm. H. A. Ford. No. 1,047,778; Dec. 17; Gaz. vol. 185; p. 761.
Detonating composition. E. Goodwin. No. 1,029,287; June 11; Sp. p. 2631; Gaz. vol. 179; p. 446.
Detonator. A. Price and W. Pryse. No. 1,047,985; Dec. 24; Gaz. vol. 185; p. 858.
Detonator for hand-grenades. E. Sokolowski. No. 1,041,894; Oct. 22; Gaz. vol. 183; p. 854.
Detonator-magazine. A. S. Hamilton. No. 1,038,355; Sept. 10; Gaz. vol. 182; p. 427.
Detonator-magazine, Portable. A. S. Hamilton. No. 1,026,860; May 21; Sp. p. 3889; Gaz. vol. 178; p. 671.
Developer, Flexible or spring grip-. W. E. Clements. No. 1,041,431; Oct. 15; Gaz. vol. 183; p. 659.
Developing apparatus. S. Pratt. No. 1,039,190; Sept. 24; Gaz. vol. 182; p. 765.
Developing-tank. I. A. Bell. No. 1,044,433; Nov. 12; Gaz. vol. 184; p. 514.
Devotional chair. J. B. Webster. No. 1,025,348; May 7; Sp. p. 538; Gaz. vol. 178; p. 84.
Devulcanizing apparatus. J. Bardsley. No. 1,039,010; Sept. 17; Gaz. vol. 182; p. 689.
Dextrin, Manufacture of. J. Verity. No. 1,016,803; Feb. 6; Sp. p. 1271; Gaz. vol. 175; p. 195.
Diacetyl-paramido-phenol, Manufacturing. F. E. Stockelbach. No. 1,034,528; Aug. 6; Gaz. vol. 181; p. 43.
Dial-lock. W. H. Taylor. No. 1,042,838; Oct. 29; Gaz. vol. 183; p. 1202.
Dial, Luminous. E. D. Lipmann. No. 1,017,896; Feb. 20; Sp. p. 3714; Gaz. vol. 175; p. 646.
Dial, Mechanism for operating a hand of a. E. K. Mackintosh. No. 1,019,065; Mar. 5; Sp. p. 112; Gaz. vol. 176; p. 21.
Diaminodioxyarsenobenzene, Derivatives of. G. Körndorfer. No. 1,024,993; Apr. 30; Sp. p. 6989; Gaz. vol. 177; p. 1228.
Diamond drill. F. Bade. No. 1,041,568; Oct. 15; Gaz. vol. 183; p. 704.
Diamond-holder. E. C. Strong. No. 1,033,749; July 23; Gaz. vol. 180; p. 1110.
Diamond-holder. F. W. Bauscher. No. 1,045,664; Nov. 26; Gaz. vol. 184; p. 1005.
Diamond-set tool. F. J. Corvilain. No. 1,030,284; June 25; Sp. p. 4841; Gaz. vol. 179; p. 866.
Diamonds, Machine for cutting concave facets in cut. J. L. Gonard. No. 1,023,513; Apr. 16; Sp. p. 3747; Gaz. vol. 177; p. 662.
Diamonds, Regrinding and polishing perforated. L. Poppe. No. 1,039,186; Sept. 24; Gaz. vol. 182; p. 764.
Diaphragm. F. B. Meech. No. 1,016,704; Feb. 6; Sp. p. 1069; Gaz. vol. 175; p. 164.
Diaphragm. J. R. Tanner. No. 1,034,323; July 30; Gaz. vol. 180; p. 1337.
Diaphragm. J. H. Ellis and A. J. Hoffman. No. 1,040,294; Oct. 8; Gaz. vol. 183; p. 239.
Diaphragm, Flexible metallic. W. B. Hodge. No. 1,045,791; Nov. 26; Gaz. vol. 184; p. 1048.
Dictaphones, Back-spacer for. T. H. Macdonald. No. 1,030,740; June 25; Sp. p. 6047; Gaz. vol. 179; p. 1031.
Die: *See* Bottle-cap-making die; Cap-crimping die; Comb embossing and cutting die; Cutting-die; Cutting and marking die; Embossing-die; Pipe-threading die; Sheet-metal-cutting die; Threading-die; Type-die.
Die. G. Christenson. No. 1,041,960; Oct. 22; Gaz. vol. 183; p. 874.
Die. J. S. Duncan. No. 1,048,460; Dec. 24; Gaz. vol. 185; p. 1018.
Die and carrier. E. C. Henn. No. 1,038,580; Sept. 17; Gaz. vol. 182; p. 541.
Die-blank. F. E. Wells. No. 1,048,921; Dec. 31; Gaz. vol. 185; p. 1216.
Die-block. R. L. Wilcox. No. 1,035,400; Aug. 13; Gaz. vol. 181; p. 369.
Die-box. C. A. Cuenin. No. 1,027,185; May 21; Sp. p. 4659; Gaz. vol. 178; p. 783.
Die-head. B. Borden. No. 1,036,550; Aug. 27; Gaz. vol. 181; p. 833.
Die-press. A. W. Roovers. No. 1,016,292; Feb. 6; Sp. p. 125; Gaz. vol. 175; p. 20.
Die-press, Multiple. C. P. Higgins. No. 1,043,520; Nov. 5; Gaz. vol. 184; p. 170.
Die-presses and analogous machines, Safety device for. H. C. H. Walsh. No. 1,047,349; Dec. 17; Gaz. vol. 185; p. 611.
Die-sinking or routing tool. G. Melling. No. 1,029,208; June 11; Sp. p. 2465; Gaz. vol. 179; p. 419.
Die-stamp. E. D. N. Schulte. No. 1,025,592; May 7; Sp. p. 1091; Gaz. vol. 178; p. 169.

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Die-starter. J. J. Young. No. 1,026,194; May 14; Sp. p. 2442; Gaz. vol. 178; p. 409.
Die-starter. J. J. Young. No. 1,042,995; Oct. 29; Gaz. vol. 183; p. 1256.
Die-stock. J. A. Phelps. No. 1,036,001; Aug. 20; Gaz. vol. 181; p. 607.
Die-stock. C. T. Benson. No. 1,042,073; Oct. 22; Gaz. vol. 183; p. 912.
Die-stock. H. W. Oster. No. 1,044,808; Nov. 19; Gaz. vol. 184; p. 676.
Die-stock. H. W. Oster. No. 1,044,809; Nov. 19; Gaz. vol. 184; p. 676.
Die-stock. H. W. Oster. No. 1,044,810; Nov. 19; Gaz. vol. 184; p. 677.
Die-stock. R. B. Tewksbury. No. 1,048,108; Dec. 24; Gaz. vol. 185; p. 899.
Die-stock. R. B. Tewksbury. No. 1,049,007; Dec. 31; Gaz. vol. 185; p. 1246.
Die-stock, Hand. G. H. Ray. No. 1,045,885; Dec. 3; Gaz. vol. 185; p. 31.
Die stock or head. J. A. Becher. No. 1,015,282; Jan. 23; Sp. p. 4835; Gaz. vol. 174; p. 838.
Die-stock, Ratchet. L. H. Louis. No. 1,021,155; Mar. 26; Sp. p. 4561; Gaz. vol. 176; p. 839.
Die structure. B. Adriance and A. Calleson. No. 1,029,333; June 11; Sp. p. 2743; Gaz. vol. 179; p. 464.
Dies and dolly. F. A. Gill. No. 1,039,380; Sept. 24; Gaz. vol. 182; p. 834.
Dies and metal-working machines, Cooling and lubricating apparatus for. F. C. Arey. No. 1,036,173; Aug. 20; Gaz. vol. 181; p. 670.
Dies, Forming. W. J. MacFarland and W. G. Eaton. No. 1,020,297; Mar. 12; Sp. p. 2740; Gaz. vol. 176; p. 464.
Differential device. O. Cullman. No. 1,018,553; Feb. 27; Sp. p. 5202; Gaz. vol. 175; p. 904.
Diffusing-cluster. W. D. Ryan. No. 1,022,878; Apr. 9; Sp. p. 2399; Gaz. vol. 177; p. 410.
Diffusion process. P. J. Wolff. No. 1,028,650; June 4; Sp. p. 1265; Gaz. vol. 179; p. 195.
Digester, Combination-. A. F. Richter. No. 1,031,088; July 2; Gaz. vol. 180; p. 85.
Digesters, Apparatus for feeding materials to. G. H. Tomlinson. No. 1,032,445; July 16; Gaz. vol. 180; p. 635.
Digesters, Feeding material to. G. H. Tomlinson. No. 1,032,441; July 16; Gaz. vol. 180; p. 634.
Digesters, Feeding material to. G. H. Tomlinson. No. 1,032,442; July 16; Gaz. vol. 180; p. 634.
Digger: *See* Beet-digger; Clam-digger; Ditch-digger; Grass-digger; Post-hole digger; Potato-digger; Root-digger; Weed-digger.
Digging implement. R. Heidkamp. No. 1,032,754; July 16; Gaz. vol. 180; p. 742.
Digging-machine. W. M. Hale. No. 1,039,932; Oct. 1; Gaz. vol. 183; p. 87.
Digging machine, Trench-. J. Lapin. No. 1,023,571; Apr. 16; Sp. p. 3868; Gaz vol. 177; p. 680.
Digging machine, Trench-. S. Belanger. No. 1,042,997; Oct. 29; Gaz. vol. 183; p. 1256.
Digging shovel, Trench-. J. Lapin. No. 1,027,345; May 21; Sp. p. 4975; Gaz. vol. 178; p. 838.
Dilator, Medicating-. T. Weaver and D. M. Ennis. No. 1,015,253; Jan. 16; Sp. p. 4758; Gaz. vol. 174; p. 802.
Dilator, Vibratory. J. T. Keough. No. 1,032,840; July 16; Gaz. vol. 180; p. 771.
Dinking-block support. W. R. Forsyth. No. 1,030,396; June 25; Sp. p. 5092; Gaz. vol. 179; p. 908.
Diolefins, Producing. F. Webel. No. 1,026,418; May 14; Sp. p. 2937; Gaz. vol. 178; p. 486.
Diolefins, Producing. F. Webel. No. 1,026,419; May 14; Sp. p. 2938; Gaz. vol. 178; p. 486.
Diolefins, Producing. F. Webel. No. 1,026,420; May 14; Sp. p. 2939; Gaz. vol. 178; p. 486.
Dioxydiamino-arsenobenzene and making same, Derivatives of. F. Stolz and F. Flächer. No. 1,048,002; Dec. 24; Gaz. vol. 185; p. 863.
Dioxyphenyl-alpha-propanolamin. W. Grüttefien. No. 1,044,778; Nov. 19; Gaz. vol. 184; p. 667.
Dip-regulator and tar-seal, Combined. J. Dell and G. H. Niles. No. 1,041,044; Oct. 15; Gaz. vol. 183; p. 529.
Dip-tank with automatic cover. F. B. Waibel. No. 1,020,526; Mar. 19; Sp. p. 3220; Gaz. vol. 176; p. 576.
Dipper. H. B. Bryan. No. 1,015,135; Jan. 16; Sp. p. 4530; Gaz. vol. 174; p. 763.
Dipper-body, Cast-metal. W. S. McKee and P. M. Vilas. No. 1,031,138; July 2; Gaz. vol. 180; p. 103.
Dipper-front, Cast-metal. W. S. McKee and P. M. Vilas. No. 1,033,818; July 30; Gaz. vol. 180; p. 1160.
Dipping-machine. J. W. Denmead. No. 1,015,998; Jan. 30; Sp. p. 6389; Gaz. vol. 174; p. 1111.
Dipping-tank. G. A. Meyer. No. 1,023,387; Apr. 16; Sp. p. 3493; Gaz. vol. 177; p. 623.
Direction, Device for determining. D. M. Bliss. No. 1,047,157; Dec. 17; Gaz. vol. 185; p. 539.
Directory and advertising device, Mechanical. W. A. Wotherspoon. No. 1,042,519; Oct. 29; Gaz. vol. 183; p. 1091.
Directory, Key-operated. G. I. Leonard and W. C. Cutler. No. 1,024,211; Apr. 23; Sp. p. 5267; Gaz. vol. 177; p. 923.
Dirt-handling apparatus. J. C. and W. R. Dorsey. No. 1,047,006; Dec. 10; Gaz. vol. 185; p. 456.
Dirt-loader. W. R. Litzenberg. No. 1,018,672; Feb. 27; Sp. p. 5438; Gaz. vol. 175; p. 943.
Dirt-receptacle. A. H. Havard. No. 1,020,349; Mar. 12; Sp. p. 2834; Gaz. vol. 176; p. 480.
Dirt-receptacle, Wheeled. J. G. Miller. No. 1,031,949; July 9; Gaz. vol. 180; p. 424.
Discharge-pipe. F. Berndt. No. 1,046,948; Dec. 10; Gaz. vol. 185; p. 439.
Discharging apparatus, Rotary. J. J. Power. No. 1,033,929; July 30; Gaz. vol. 180; p. 1200.
Discus. W. Berg. No. 1,040,851; Oct. 8; Gaz. vol. 183; p. 430.
Dish, Butter-. A. A. Fordon and G. L. Morrison. No. 1,027,719; May 28; Sp. p. 5741; Gaz. vol. 178; p. 1001.
Dish, Butter-. H. M. Moenck. No. 1,041,659; Oct. 15; Gaz. vol. 183; p. 735.
Dish, Carving-. W. J. Pitt. No. 1,038,647; Sept. 17; Gaz. vol. 182; p. 564.
Dish-cleaner. E. Sanborn and A. K. Macdonald. No. 1,040,021; Oct. 1; Gaz. vol. 183; p. 117.
Dish-cleaner. E. A. Prunier and L. Hertenbein. No. 1,045,079; Nov. 19; Gaz. vol. 184; p. 769.
Dish-cutting machine. P. R. Simmons. No. 1,044,931; Nov. 19; Gaz. vol. 184; p. 718.
Dish-drainer. W. E. Hayward. No. 1,034,912; Aug. 6; Gaz. vol. 181; p. 171.
Dish-drainer. F. Sonnemann. No. 1,037,073; Aug. 27; Gaz. vol. 181; p. 1008.
Dish drip-tray. G. Wingender. No. 1,025,178; May 7; Sp. p. 153; Gaz. vol. 178; p. 26.
Dish-drying rack. L. Goehr. No. 1,022,544; Apr. 9; Sp. p. 1666; Gaz. vol. 177; p. 296.
Dish-receptacle. M. E. Boice. No. 1,028,320; June 4; Sp. p. 559; Gaz. vol. 179; p. 83.
Dish-warmer H. Young. No. 1,023,191; Apr. 16; Sp. p. 3116; Gaz. vol. 177; p. 557.
Dish-washer. I. Brownrigg. No. 1,032,737; July 16; Gaz. vol. 180; p. 737.
Dish-washer. J. E. Gribben. No. 1,034,229; July 30; Gaz. vol. 180; p. 1305.
Dish-washer. C. L. Beach. No. 1,034,676; Aug. 6; Gaz. vol. 181; p. 91.
Dish-washer. I. McClure. No. 1,036,669; Aug. 27; Gaz. vol. 181; p. 874.
Dish-washer. O. Lock. No. 1,042,242; Oct. 22; Gaz. vol. 183; p. 968.
Dish-washer. W. S. Miller. No. 1,045,726; Nov. 26; Gaz. vol. 184; p. 1026.
Dish-washer. M. M. Beal. No. 1,046,249; Dec. 3; Gaz. vol. 185; p. 157.
Dish-washer. H. S. Nesbitt. No. 1,048,862; Dec. 31; Gaz. vol. 185; p. 1196.
Dish-washing machine. J. F. Hilscher. No. 1,016,995; Feb. 13; Sp. p. 1705; Gaz. vol. 175; p. 298.
Dish-washing machine. H. F. Smith. No. 1,020,932; Mar. 19; Sp. p. 4082; Gaz. vol. 176; p. 713.
Dish-washing machine. L. A. Haustetter. No. 1,029,541; June 11; Sp. p. 3181; Gaz. vol. 179; p. 534.
Dish-washing machine. J. B. Laplace. No. 1,031,186; July 2; Gaz. vol. 180; p. 120.
Dish-washing machine. E. J. Miller. No. 1,032,018; July 9; Gaz. vol. 180; p. 446.
Dish-washing machine. L. P. Perew and U. J. Rogers. No. 1,039,794; Oct. 1; Gaz. vol. 183; p. 42.
Dish-washing machine. F. Householder. No. 1,041,085; Oct. 15; Gaz. vol. 183; p. 544.
Dish-washing machine. C. F. Frothingham. No. 1,042,664; Oct. 29; Gaz. vol. 183; p. 1143.
Dish-washing machine. H. T. Goss. No. 1,042,784; Oct. 29; Gaz. vol. 183; p. 1184.
Dish-washing machine. W. T. Hoofnagle. No. 1,043,010; Oct. 29; Gaz. vol. 183; p. 1261.
Dish-washing pan. E. O. C. Ord. No. 1,014,509; Jan. 9; Sp. p. 3117; Gaz. vol. 174; p. 518.
Disinfectant device for mouthpieces. A. E. Le Ford. No. 1,022,247; Apr. 2; Sp. p. 1050; Gaz. vol. 177; p. 167.
Disinfectant-holder. J. R. Jackson. No. 1,025,189; May 7; Sp. p. 176; Gaz. vol. 178; p. 30.
Disinfectant or insecticide container. G. D. Snell. No. 1,016,648; Feb. 6; Sp. p. 955; Gaz. vol. 175; p. 144.
Disinfectant substances and products produced thereby, Manufacture of. K. Rülke. No. 1,020,624; Mar. 19; Sp. p. 3445; Gaz. vol. 176; p. 609.
Disinfecting agent. M. Engelmann. No. 1,034,093; July 30; Gaz. vol. 180; p. 1258.
Disinfecting agent. L. Taub. No. 1,034,166; July 30; Gaz. vol. 180; p. 1284.
Disinfecting and other purposes, Composition for. L. H. Reuter. No. 1,027,000; May 21; Sp. p. 4233; Gaz. vol. 178; p. 722.
Disinfecting and sponging apparatus. S. and M. J. Baruch. No. 1,035,676; Aug. 13; Gaz. vol. 181; p. 461.
Disinfecting apparatus. F. R. Bensinger. No. 1,021,500; Mar. 26; Sp. p. 5325; Gaz. vol. 176; p. 959.
Disinfecting apparatus. G. C. Beeman and T. Kelley. No. 1,036,782; Aug. 27; Gaz. vol. 181; p. 910.
Disinfecting composition containing oil, Solid. C. Ellis. No. 1,048,815; Dec. 31; Gaz. vol. 185; p. 1181.
Disinfecting device. G. Michels. No. 1,024,591; Apr. 30; Sp. p. 6154; Gaz. vol. 177; p. 1087.

Alphabetical list of inventions—Continued.

Disinfecting inclosed spaces. G. Harker. No. 1,016,145; Jan. 30; Sp. p. 6694; Gaz. vol. 174; p. 1163.
Disintegrator. J. Boero. No. 1,013,527; Jan. 2; Sp. p. 955; Gaz. vol. 174; p. 153.
Disintegrator. H. P. Paul. No. 1,018,440; Feb. 27; Sp. p. 4884; Gaz. vol. 175; p. 864.
Disintegrator. B. Granville. No. 1,046,290; Dec. 3; Gaz. vol. 185; p. 171.
Disk attachment. H. M. Stainfield. No. 1,033,484; July 23; Gaz. vol. 180; p. 1025.
Disk-feed, Automatic. W. Deats. No. 1,031,694; July 9; Gaz. vol. 180; p. 336.
Disk-harrow scraping and pulverizing attachment. J. E. Erb. No. 1,032,998; July 16; Gaz. vol. 180; p. 822.
Disk-mounting. H. M. Stainfield and E. R. Beeman. No. 1,046,231; Dec. 3; Gaz. vol. 185; p. 151.
Disk-record holder. A. S. Nichols. No. 1,026,111; May 14; Sp. p. 2262; Gaz. vol. 178; p. 381.
Disk-supporting arm. H. Brockmeyer. No. 1,035,776; Aug. 13; Gaz. vol. 181; p. 494.
Disk-supporting arm. H. Brockmeyer. No. 1,043,666; Nov. 5; Gaz. vol. 184; p. 219.
Dispenser. C. De Julio. No. 1,022,774; Apr. 9; Sp. p. 2194; Gaz. vol. 177; p. 376.
Dispensing and forming apparatus. J. F. Leeper. No. 1,028,749; June 4; Sp. p. 1474; Gaz. vol. 179; p. 228.
Dispensing apparatus. T. C. Bounds. No. 1,014,115; Jan. 9; Sp. p. 2295; Gaz. vol. 174; p. 382.
Dispensing apparatus. G. A. Spratt. No. 1,037,681; Sept. 3; Gaz. vol. 182; p. 170.
Dispensing apparatus. R. J. Wightman. No. 1,045,347; Nov. 26; Gaz. vol. 184; p. 891.
Dispensing apparatus. C. M. Brehm. No. 1,046,957; Dec. 10; Gaz. vol. 185; p. 441.
Dispensing-box. R. R. Ringer. No. 1,018,269; Feb. 20; Sp. p. 4504; Gaz. vol. 175; p. 774.
Dispensing-can. C. A. Hertenstein and W. F. Probst. No. 1,026,582; May 14; Sp. p. 3261; Gaz. vol. 178; p. 539.
Dispensing-can. W. F. Pierce. No. 1,026,828; May 21; Sp. p. 3821; Gaz. vol. 178; p. 661.
Dispensing-can. A. C. Davis. No. 1,040,519; Oct. 8; Gaz. vol. 183; p. 316.
Dispensing device. J. J. Dobes. No. 1,017,856; Feb. 20; Sp. p. 3591; Gaz. vol. 175; p. 630.
Dispensing device. C. V. and C. J. Case and F. E. Parker. No. 1,027,177; May 21; Sp. p. 4641; Gaz. vol. 178; p. 779.
Display and icing can or box, Sheet-metal oyster. A. S. Jackson. No. 1,036,631; Aug. 27; Gaz. vol. 181; p. 861.
Display and shipping case, Combined. W. D. Light. No. 1,041,495; Oct. 15; Gaz. vol. 183; p. 681.
Display and storage case, Counter. L. Frank. No. 1,024,323; Apr. 23; Sp. p. 5481; Gaz. vol. 177; p. 961.
Display apparatus. C. H. Congdon. No. 1,014,640; Jan. 16; Sp. p. 3458; Gaz. vol. 174; p. 594.
Display apparatus. M. J. Wessels. No. 1,017,832; Feb. 20; Sp. p. 3535; Gaz. vol. 175; p. 621.
Display apparatus. M. T. Ash. No. 1,018,403; Feb. 27; Sp. p. 4801; Gaz. vol. 175; p. 851.
Display apparatus. M. Fisher. No. 1,020,896; Mar. 19; Sp. p. 4015; Gaz. vol. 176; p. 700.
Display apparatus. E. M. Dougherty. No. 1,021,358; Mar. 26; Sp. p. 4985; Gaz. vol. 176; p. 910.
Display apparatus. K. Koike. No. 1,026,214; May 14; Sp. p. 2491; Gaz. vol. 178; p. 417.
Display apparatus. H. Holden. No. 1,027,606; May 28; Sp. p. 5513; Gaz. vol. 178; p. 964.
Display apparatus. K. Koike. No. 1,031,125; July 2; Gaz. vol. 180; p. 98.
Display apparatus. K. Koike. No. 1,031,126; July 2; Gaz. vol. 180; p. 98.
Display apparatus. K. Koike. No. 1,038,899; Sept. 17; Gaz. vol. 182; p. 653.
Display apparatus. B. B. Bienhoff. No. 1,047,904; Dec. 17; Gaz. vol. 185; p. 804.
Display apparatus. H. F. Bauer. No. 1,049,196; Dec. 31; Gaz. vol. 185; p. 1310.
Display apparatus. F. Janeček. No. 1,049,240; Dec. 31; Gaz. vol. 185; p. 1324.
Display apparatus, Advertising. C. J. Cooke. No. 1,020,538; Mar. 19; Sp. p. 3247; Gaz. vol. 176; p. 581.
Display apparatus, Dissolving-view. G. T. Fielding, Jr. No. 1,031,542; July 2; Gaz. vol. 180; p. 240.
Display apparatus, Motor for advertisement-. W. H. Thompson. No. 1,022,898; Apr. 9; Sp. p. 2436; Gaz. vol. 177; p. 416.
Display apparatus, Package-. F. Wokoun. No. 1,041,552; Oct. 15; Gaz. vol. 183; p. 699.
Display attachment for boxes. H. W. Williams. No. 1,044,839; Nov. 19; Gaz. vol. 184; p. 686.
Display-box. J. G. Heinicke. No. 1,016,148; Jan. 30; Sp. p. 6698; Gaz. vol. 174; p. 1164.
Display-box. O. A. Wolf. No. 1,029,096; June 11; Sp. p. 2234; Gaz. vol. 179; p. 381.
Display-box. H. Schandein and M. P. Lind. No. 1,030,209; June 18; Sp. p. 4659; Gaz. vol. 179; p. 801.
Display-box. H. T. Loomis. No. 1,030,903; July 2; Gaz. vol. 180; p. 18.
Display-box. E. J. Schoettle. No. 1,046,337; Dec. 3; Gaz. vol. 185; p. 188.
Display-cabinet. D. Lochner. No. 1,014,158; Jan. 9; Sp. p. 2374; Gaz. vol. 174; p. 397.
Display-cabinet. J. A. Douglass. No. 1,016,818; Feb. 6; Sp. p. 1302; Gaz. vol. 175; p. 200.
Display-cabinet. C. A. Hamilton. No. 1,027,723; May 28; Sp. p. 5748; Gaz. vol. 178; p. 1002.
Display-cabinet. J. Lines. No. 1,041,497; Oct. 15; Gaz. vol. 183; p. 681.
Display-cabinet. J. N. Macom and L. B. Walker. No. 1,044,677; Nov. 19; Gaz. vol. 184; p. 630.
Display-cabinet, Clothing-merchant's. A. Blitz. No. 1,046,142; Dec. 3; Gaz. vol. 185; p. 119.
Display-cabinet door structure. L. W. Welch. No. 1,025,350; May 7; Sp. p. 541; Gaz. vol. 178; p. 84.
Display-card. C. M. Morgan. No. 1,028,479; June 4; Sp. p. 925; Gaz. vol. 179; p. 138.
Display card, Merchandise-. A. D. Rawlings. No. 1,032,024; July 9; Gaz. vol. 180; p. 448.
Display-case. I. F. Omwake. No. 1,018,679; Feb. 27; Sp. p. 5453; Gaz. vol. 175; p. 946.
Display case, Lace-curtain-. W. A. Charlet. No. 1,026,561; May 14; Sp. p. 3221; Gaz. vol. 178; p. 532.
Display case, Stock-. G. H. Burlingame. No. 1,014,947; Jan. 16; Sp. p. 4156; Gaz. vol. 174; p. 699.
Display-cases, Supporting-arm for. M. Freud. No. 1,041,264; Oct. 15; Gaz. vol. 183; p. 604.
Display-container. W. H. Clements. No. 1,042,086; Oct. 22; Gaz. vol. 183; p. 917.
Display device. J. M. Dannheiser. No. 1,016,677; Feb. 6; Sp. p. 1014; Gaz. vol. 175; p. 154.
Display device. J. Holmes. No. 1,019,151; Mar. 5; Sp. p. 324; Gaz. vol. 176; p. 50.
Display device. D. L. Lanford. No. 1,019,807; Mar. 12; Sp. p. 1723; Gaz. vol. 176; p. 301.
Display device. S. Hodge. No. 1,022,137; Apr. 2; Sp. p. 820; Gaz. vol. 177; p. 130.
Display device. J. Stranders. No. 1,026,634; May 14; Sp. p. 3379; Gaz. vol. 178; p. 557.
Display device. O. L. Smith. No. 1,027,083; May 21; Sp. p. 4454; Gaz. vol. 178; p. 751.
Display device. D. Marshall. No. 1,028,842; June 4; Sp. p. 1663; Gaz. vol. 179; p. 259.
Display device. A. Vanderveld. No. 1,032,969; July 16; Gaz. vol. 180; p. 812.
Display device. H. W. Knautz. No. 1,034,369; July 30; Gaz. vol. 180; p. 1355.
Display device. J. Crowther. No. 1,034,884; Aug. 6; Gaz. vol. 181; p. 163.
Display device, Collapsible. J. Stranders. No. 1,028,147; June 4; Sp. p. 150; Gaz. vol. 179; p. 23.
Display device, Collapsible. W. M. Carter. No. 1,041,738; Oct. 22; Gaz. vol. 183; p. 797.
Display device, Curtain and like. F. Frank. No. 1,028,565; June 4; Sp. p. 1091; Gaz. vol. 179; p. 166.
Display-easel. J. A. Dinkler. No. 1,048,395; Dec. 24; Gaz. vol. 185; p. 996.
Display-figure attachment. W. H. Beyette. No. 1,024,244; Apr. 23; Sp. p. 5341; Gaz. vol. 177; p. 936.
Display-fixture. S. Weisberger. No. 1,025,349; May 7; Sp. p. 539; Gaz. vol. 178; p. 84.
Display-fixture. J. T. Clark. No. 1,044,493; Nov. 19; Gaz. vol. 184; p. 564.
Display-fixture. J. T. Clark. No. 1,046,735; Dec. 10; Gaz. vol. 185; p. 367.
Display form, Shoe-. J. K. Gaines. No. 1,043,762; Nov. 5; Gaz. vol. 184; p. 251.
Display machine, Picture-. H. S. Rogers. No. 1,030,611; June 25; Sp. p. 5713; Gaz. vol. 179; p. 985.
Display mattress-rack. H. M. Taylor. No. 1,020,331; Mar. 12; Sp. p. 2797; Gaz. vol. 176; p. 474.
Display, measuring, and cutting device, Combined. G. W. Therien and O. R. Zoll. No. 1,040,054; Oct. 1; Gaz. vol. 183; p. 128.
Display-rack. T. W. Warren. No. 1,014,426; Jan. 9; Sp. p. 2970; Gaz. vol. 174; p. 492.
Display-rack. M. S. Rocereto and L. D. Bert. No. 1,015,079; Jan. 16; Sp. p. 4422; Gaz. vol. 174; p. 744.
Display-rack. A. S. Madden. No. 1,015,448; Jan. 23; Sp. p. 5208; Gaz. vol. 174; p. 895.
Display-rack. W. G. Anderson. No. 1,015,926; Jan. 30; Sp. p. 6232; Gaz. vol. 174; p. 1086.
Display-rack. J. Walz. No. 1,019,384; Mar. 5; Sp. p. 889; Gaz. vol. 176; p. 131.
Display-rack. A. M. McGaughey. No. 1,019,983; Mar. 12; Sp. p. 2086; Gaz. vol. 176; p. 359.
Display-rack. W. G. Peugh. No. 1,020,114; Mar. 12; Sp. p. 2364; Gaz. vol. 176; p. 404.
Display-rack. L. Feldmann, Jr., and T. E. Crecelius. No. 1,020,545; Mar. 19; Sp. p. 3256; Gaz. vol. 176; p. 583.
Display-rack. A. E. Miller. No. 1,023,789; Apr. 16; Sp. p. 4260; Gaz. vol. 177; p. 748.
Display-rack. R. S. Ford. No. 1,024,253; Apr. 23; Sp. p. 5359; Gaz. vol. 177; p. 939.
Display-rack. B. J. Buckingham. No. 1,026,241; May 14; Sp. p. 2542; Gaz. vol. 178; p. 426.
Display-rack. J. R. Mahoney. No. 1,026,593; May 14; Sp. p. 3283; Gaz. vol. 178; p. 543.
Display-rack. A. H. Riederer. No. 1,026,771; May 21; Sp. p. 3707; Gaz. vol. 178; p. 642.
Display-rack. A. E. Miller. No. 1,032,341; July 9; Gaz. vol. 180; p. 556.

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Display-rack. J. H. Cuddy, Jr. No. 1,032,590; July 16; Gaz. vol. 180; p. 684.
Display-rack. R. W. Sowers. No. 1,033,630; July 23; Gaz. vol. 180; p. 1073.
Display-rack. O. N. Hegge. No. 1,035,006; Aug. 6; Gaz. vol. 181; p. 202.
Display-rack. C. Doering, Jr. No. 1,035,551; Aug. 13; Gaz. vol. 181; p. 420.
Display-rack. R. J. and F. Wright. No. 1,035,932; Aug. 20; Gaz. vol. 181; p. 586.
Display-rack. J. L. Harr. No. 1,044,381; Nov. 12; Gaz. vol. 184; p. 496.
Display-rack. C. Holland. No. 1,047,053; Dec. 10; Gaz. vol. 185; p. 473.
Display-rack. F. P. Murphy. No. 1,049,133; Dec. 31; Gaz. vol. 185; p. 1290.
Display-rack, Adjustable. C. Doering, Sr. No. 1,035,553; Aug. 13; Gaz. vol. 181; p. 421.
Display-rack, Collapsible. C. Doering, Jr. No. 1,035,552; Aug. 13; Gaz. vol. 181; p. 420.
Display rack, Garment-. F. J. Hughes. No. 1,031,268; July 2; Gaz. vol. 180; p. 148.
Display-rack, Hat-nesting. R. Parker, Jr. No. 1,026,116; May 14; Sp. p. 2271; Gaz. vol. 178; p. 383.
Display rack, Oil-. A. W. Harris. No. 1,017,540; Feb. 13; Sp. p. 2883; Gaz. vol. 175; p. 486.
Display-rack, Sanitary. F. Andrews. No. 1,044,471; Nov. 19; Gaz. vol. 184; p. 557.
Display-receptacle, Reinforced. J. C. Skinner. No. 1,036,358; Aug. 20; Gaz. vol. 181; p. 735.
Display-sign. T. Candy. No. 1,035,153; Aug. 13; Gaz. vol. 181; p. 280.
Display-stand. W. Faerber. No. 1,013,539; Jan. 2; Sp. p. 981; Gaz. vol. 174; p. 157.
Display-stand. W. E. Ragsdale. No. 1,015,457; Jan. 23; Sp p. 5243; Gaz. vol. 174; p. 898.
Display-stand. C. L. Hickey. No. 1,024,777; Apr. 30; Sp. p. 6547; Gaz. vol. 177; p. 1152.
Display-stand. F. E. Peterson. No. 1,035,100; Aug. 6; Gaz. vol. 181; p. 233.
Display-stand. H. L. Beach. No. 1,047,882; Dec. 17; Gaz. vol. 185; p. 797.
Display-stand. E. E. Schmitt. No. 1,048,354; Dec. 24; Gaz. vol. 185; p. 981.
Displayer, Coin-. F. C. Fabry. No. 1,013,991; Jan. 9; Sp. p. 2016; Gaz. vol. 174; p. 341.
Displaying and vending apparatus, Postal-card. B. S. Wallick. No. 1,013,976; Jan. 9; Sp. p. 1985; Gaz. vol. 174; p. 336.
Displaying apparatus for show windows and cases. B. P. Ross. No. 1,017,470; Feb. 13; Sp. p. 2750; Gaz. vol. 175; p. 463.
Displaying device for advertisements. C. A. Lain and E. W. Jennings. No. 1,017,563; Feb. 13; Sp. p. 2919; Gaz. vol. 175; p. 494.
Displaying machine, Picture-. A. F. Victor. No. 1,019,932; Mar. 12; Sp. p. 1985; Gaz. vol. 176; p. 343.
Displaying sheets, Contrivance for intermittently. E. W. Brown. No. 1,022,179; Apr. 2; Sp. p. 905; Gaz. vol. 177; p. 144.
Distance and speed meter. M. J. Klein. No. 1,019,007; Feb. 27; Sp. p. 6164; Gaz. vol. 175; p. 1058.
Distance-finder. J. M. Washburn. No. 1,033,848; July 30; Gaz. vol. 180; p. 1171.
Distance-finder. J. M. Washburn. No. 1,033,850; July 30; Gaz. vol. 180; p. 1172.
Distance-gage. J. M. Washburn. No. 1,033,849; July 30; Gaz. vol. 180; p. 1171.
Distillation. S. Neal. No. 1,036,306; Aug. 20; Gaz. vol. 181; p. 716.
Distillation apparatus. J. T. Davis. No. 1,023,244; Apr. 16; Sp. p. 3212; Gaz. vol. 177; p. 574.
Distillation apparatus. P. J. Mattingly, P. J. Hines, and J. J. Brennan. No. 1,034,267; July 30; Gaz. vol. 180; p. 1319.
Distillation of bituminous coal and the like. J. M. Rusby and O. B. Evans. No. 1,030,333; June 25; Sp. p. 4962; Gaz. vol. 179; p. 885.
Distillation of coal-tar, mineral oils, &c., Plant for the continuous. H. P. Hird. No. 1,041,082; Oct. 15; Gaz. vol. 183; p. 543.
Distilling apparatus. H. C. Duensing. No. 1,043,305; Nov. 5; Gaz. vol. 184; p. 93.
Distilling apparatus. E. Beaucondray and W. G. Biery. No. 1,043,894; Nov. 12; Gaz. vol. 184; p. 329.
Distilling apparatus, Water-. J. M. Harsh. No. 1,013,936; Jan. 9; Sp. p. 1897; Gaz. vol. 174; p. 323.
Distilling apparatus, Wood-. R. W. Hilton. No. 1,018,419; Feb. 27; Sp. p. 4842; Gaz. vol. 175; p. 857.
Distilling-column. F. Pampe. No. 1,048,425; Dec. 24; Gaz. vol. 185; p. 1005.
Distilling hydrocarbon oil, Apparatus for. C. W. Turner. No. 1,046,683; Dec. 10; Gaz. vol. 185; p. 348.
Distilling, Process of and apparatus for. C. T. Hanna. No. 1,029,363; June 11; Sp. p. 2813; Gaz. vol. 179; p. 474.
Distilling wood. R. Strobach. No. 1,015,519; Jan. 23; Sp. p. 5356; Gaz. vol. 174; p. 918.
Distilling wood, Apparatus and method for. F. and G. M. Pope. No. 1,030,011; June 18; Sp. p. 4227; Gaz. vol. 179; p. 732.
Distributer. G. A. Berry. No. 1,022,577; Apr. 9; Sp. p. 1738; Gaz. vol. 177; p. 306.
Distributing apparatus. C. B. Tewksbury. No. 1,014,786; Jan. 16; Sp. p. 3781; Gaz. vol. 174; p. 642.
Distributing apparatus. H. Derdeyn. No. 1,019,609; Mar. 5; Sp. p. 1341; Gaz. vol. 176; p. 203.
Distributing flat bodies, Apparatus for. F. Ruppel. No. 1,016,779; Feb. 6; Sp. p. 1227; Gaz. vol. 175; p. 189.
Distributing-machine. N. Meronek. No. 1,021,544; Mar. 26; Sp. p. 5413; Gaz. vol. 176; p. 975.
Distribution system, Electrical. W. A. Turbayne. No. 1,033,357; July 23; Gaz. vol. 180; p. 984.
Ditch-digger. W. L. Grey. No. 1,045,834; Dec. 3; Gaz. vol. 185; p. 13.
Ditcher and grader. G. W. Jory. No. 1,028,734; June 4; Sp. p. 1430; Gaz. vol. 179; p. 222.
Ditching and grading machine, Combined. E. W. Lilly. No. 1,043,610; Nov. 5; Gaz. vol. 184; p. 201.
Ditching-machine. F. Johanning and L. Richnow. No. 1,016,998; Feb. 13; Sp. p. 1710; Gaz. vol. 175; p. 298.
Ditching-machine. O. Frechette. No. 1,019,242; Mar. 5; Sp. p. 520; Gaz. vol. 176; p. 82.
Ditching-machine. W. L. Combs and J. A. Kerber. No. 1,020,911; Mar. 19; Sp. p. 4042; Gaz. vol. 176; p. 706.
Ditching-machine. C. Kosmin. No. 1,023,156; Apr. 16; Sp. p. 3036; Gaz. vol. 177; p. 545.
Ditching-machine. E. Jeschke. No. 1,028,218; June 4; Sp. p. 352; Gaz. vol. 179; p. 49.
Ditching-machine. H. W. and A. G. Gribler. No. 1,029,498; June 11; Sp. p. 3100; Gaz. vol. 179; p. 520.
Ditching-machine. P. J. Lyback. No. 1,038,915; Sept. 17; Gaz. vol. 182; p. 658.
Ditching-machine. R. Y. Kessler. No. 1,039,412; Sept. 24; Gaz. vol. 182; p. 844.
Ditching-machine. F. J. Wertelewski. No. 1,048,014; Dec. 24; Gaz. vol. 185; p. 867.
Ditching-machine. A. E. Hanson. No. 1,048,408; Dec. 24; Gaz. vol. 185; p. 999.
Ditching-machine and tile-distributer. A. E. Hanson. No. 1,022,843; Apr. 9; Sp. p. 2338; Gaz. vol. 177; p. 399.
Ditching-machine and tile-distributer. A. E. Hanson. No. 1,026,672; May 21; Sp. p. 3478; Gaz. vol. 178; p. 607.
Diving-suit. C. Anderson and M. Silver. No. 1,022,997; Apr. 9; Sp. p. 2647; Gaz. vol. 177; p. 452.
Divinyl, Producing. F. Hofmann and C. Coutelle. No. 1,028,938; June 11; Sp. p. 1893; Gaz. vol. 179; p. 327.
Division, Method of performing. C. H. Tallmadge. No. 1,047,854; Dec. 17; Gaz. vol. 185; p. 787.
Dobby of the Hattersley type. H. Stäubli. No. 1,017,184; Feb. 13; Sp. p. 2126; Gaz. vol. 175; p. 363.
Dock, Floating dry-. W. T. Donnelly. No. 1,019,434; Mar. 5; Sp. p. 995; Gaz. vol. 176; p. 145.
Dock, Floating dry-. A. C. Cunningham. No. 1,022,931; Apr. 9; Sp. p. 2516; Gaz. vol. 177; p. 429.
Dock, Floating dry-. G. C. Engstrand. No. 1,043,411; Nov. 5; Gaz. vol. 184; p. 130.
Dock or bulkhead construction. M. M. Upson. No. 1,030,496; June 25; Sp. p. 5324; Gaz. vol. 179; p. 943.
Dock, Sectional floating dry-. W. T. Donnelly. No. 1,019,611; Mar. 5; Sp. p. 1344; Gaz. vol. 176; p. 204.
Document, Monetary. G. N. Knight. No. 1,019,661; Mar. 5; Sp. p. 1435; Gaz. vol. 176; p. 221.
Documentary distributing device. W. L. Deming. No. 1,027,701; May 28; Sp. p. 5712; Gaz. vol. 178; p. 995.
Doffer. H. D. Colman. No. 1,044,993; Nov. 19; Gaz. vol. 184; p. 739.
Doffing mechanism. J. Armitage. No. 1,035,403; Aug. 13; Gaz. vol. 181; p. 370.
Dogs from worrying sheep, Device to prevent. W. Graham. No. 1,046,177; Dec. 3; Gaz. vol. 185; p. 129.
Doily-mat. W. N. Parkes. No. 1,037,044; Aug. 27; Gaz. vol. 181; p. 998.
Doll. M. K. Baker. No. 1,025,234; May 7; Sp. p. 272; Gaz. vol. 178; p. 45.
Doll. A. J. Gleason. No. 1,044,162; Nov. 12; Gaz. vol. 184; p. 421.
Doll. E. Gleason. No. 1,044,163; Nov. 12; Gaz. vol. 184; p. 421.
Doll-head. J. M. Dickson. No. 1,027,324; May 21; Sp. p. 4940; Gaz. vol. 178; p. 831.
Doll-head. J. A. Manning. No. 1,047,259; Dec. 17; Gaz. vol. 185; p. 576.
Dolly. M. J. Trott. No. 1,043,984; Nov. 12; Gaz. vol. 184; p. 362.
Door. O. W. Meissner. No. 1,014,768; Jan. 16; Sp. p. 3741; Gaz. vol. 174; p. 636.
Door. L. Larson. No. 1,019,664; Mar. 5; Sp. p. 1440; Gaz. vol. 176; p. 222.
Door. H. F. Cuntz. No. 1,022,468; Apr. 9; Sp. p. 1511; Gaz. vol. 177; p. 271.
Door. J. C. Duner. No. 1,022,661; Apr. 9; Sp. p. 1922; Gaz. vol. 177; p. 335.
Door. B. C. Rockwell. No. 1,028,280; June 4; Sp. p. 474; Gaz. vol. 179; p. 69.
Door. R. M. Zimmerman. No. 1,038,058; Sept. 10; Gaz. vol. 182; p. 329.
Door. W. R. Jeavons. No. 1,038,590; Sept. 17; Gaz. vol. 182; p. 544.
Door. O. W. Meissner. No. 1,043,953; Nov. 12; Gaz. vol. 184; p. 351.

Door. J. O. Hatch. No. 1,044,383; Nov. 12; Gaz. vol. 184; p. 497.
Door. E. R. St. John. No. 1,048,471; Dec. 24; Gaz. vol. 185; p. 1022.
Door, Accordion-. W. Werner and J. Currivan. No. 1,043,492; Nov. 5; Gaz. vol. 184; p. 160.
Door-alarm. W. E. Klein. No. 1,041,811; Oct. 22; Gaz. vol. 183; p. 825.
Door and manufacturing the same, Metal. G. H. Forsyth. No. 1,046,455; Dec. 10; Gaz. vol. 185; p. 266.
Door and operating mechanism therefor. L. J. Eyth. No. 1,015,158; Jan. 16; Sp. p. 4567; Gaz. vol. 174; p. 770.
Door and pedal operating mechanism. G. P. Brand and J. Santos. No. 1,021,571; Mar. 26; Sp. p. 5471; Gaz. vol. 176; p. 983.
Door and show-case, Combined. A. L. Johnson. No. 1,035,015; Aug. 6; Gaz. vol. 181; p. 204.
Door and step operating mechanism. H. Rowntree. No. 1,014,907; Jan. 16; Sp. p. 4052; Gaz. vol. 174; p. 685.
Door and the like, Hollow metal. A. J. Ellis. No. 1,039,371; Sept. 24; Gaz. vol. 182; p. 830.
Door and the like, Sheet-metal. A. Johnson. No. 1,039,292; Sept. 24; Gaz. vol. 182; p. 803.
Door and window bolt. F. C. vom Bruck. No. 1,023,455; Apr. 16; Sp. p. 3627; Gaz. vol. 177; p. 643.
Door and window closure. B. C. Rockwell. No. 1,036,721; Aug. 27; Gaz. vol. 181; p. 890.
Door and window opening. G. A. Berlinghof and E. L. Davis. No. 1,027,460; May 28; Sp. p. 5219; Gaz. vol. 178; p. 915.
Door and window stop and alarm, Combined. J. Simpson. No. 1,041,685; Oct. 15; Gaz. vol. 183; p. 743.
Door and window structure. J. T. Simpson. No. 1,039,830; Oct. 1; Gaz. vol. 183; p. 54.
Door attachment. O. Klonower. No. 1,036,646; Aug. 27; Gaz. vol. 181; p. 866.
Door attachment, Burglar-proof. G. Hensle. No. 1,043,231; Nov. 5; Gaz. vol. 184; p. 66.
Door attachment, Screen-. J. E. Johnson. No. 1,025,746; May 7; Sp. p. 1410; Gaz. vol. 178; p. 221.
Door, Automatic. F. E. Wenzel. No. 1,044,837; Nov. 19; Gaz. vol. 184; p. 685.
Door-bolt. B. L. Davidson and E. B. Welch. No. 1,027,035; May 21; Sp. p. 4329; Gaz. vol. 178; p. 734.
Door-bolt. J. Shone. No. 1,047,315; Dec. 17; Gaz. vol. 185; p. 598.
Door-bolt-actuated circuit-closer. G. A. Spring. No. 1,044,099; Nov. 12; Gaz. vol. 184; p. 401.
Door-bolt-adjusting mechanism. E. L. Teich. No. 1,033,057; July 16; Gaz. vol. 180; p. 843.
Door-bolt, Safety. B. F. Foss. No. 1,038,111; Sept. 10; Gaz. vol. 182; p. 345.
Door-bolt, Safety. T. Morrison. No. 1,047,139; Dec. 10; Gaz. vol. 185; p. 504.
Door-bolting device. J. M. Sausser. No. 1,013,820; Jan. 2; Sp. p. 1588; Gaz. vol. 174; p. 253.
Door-buffer. A. S. Newton. No. 1,044,412; Nov. 12; Gaz. vol. 184; p. 508.
Door-catch. F. J. Lee. No. 1,021,611; Mar. 26; Sp. p. 5545; Gaz. vol. 176; p. 995.
Door-catch. M. Hughes. No. 1,024,781; Apr. 30; Sp. p. 6553; Gaz. vol. 177; p. 1154.
Door-catch. F. S. Fleury. No. 1,028,561; June 4; Sp. p. 1087; Gaz. vol. 179; p. 165.
Door-catch. F. W. Ricker. No. 1,031,872; July 9; Gaz. vol. 180; p. 399.
Door-catch. A. F. McDonnell. No. 1,048,989; Dec. 31; Gaz. vol. 185; p. 1240.
Door, Cellar-. J. H. Tolson. No. 1,033,214; July 23; Gaz. vol. 180; p. 935.
Door, Changeable front. H. F. Doll. No. 1,018,101; Feb. 20; Sp. p. 4165; Gaz. vol. 175; p. 716.
Door-check. J. E. Gibbs. No. 1,013,762; Jan. 2; Sp. p. 1486; Gaz. vol. 174; p. 235.
Door-check. J. C. Earnshaw. No. 1,014,817; Jan. 16; Sp. p. 3841; Gaz. vol. 174; p. 653.
Door-check. E. von Gunten. No. 1,015,222; Jan. 16; Sp. p. 4682; Gaz. vol. 174; p. 790.
Door-check. C. C. Traum. No. 1,015,655; Jan. 23; Sp. p. 5659; Gaz. vol. 174; p. 967.
Door-check. J. C. Schmidt. No. 1,021,803; Apr. 2; Sp. p. 100; Gaz. vol. 177; p. 20.
Door-check. W. H. Aspegrén. No. 1,028,850; June 11; Sp. p. 1687; Gaz. vol. 179; p. 295.
Door-check. W. H. Aspegren. No. 1,035,298; Aug. 13; Gaz. vol. 181; p. 332.
Door-check. C. B. Harkness. No. 1,036,098; Aug. 20; Gaz. vol. 181; p. 643.
Door-check. J. Koch, Jr. No. 1,037,641; Sept. 3; Gaz. vol. 182; p. 156.
Door-check. E. W. Clark. No. 1,041,430; Oct. 15; Gaz. vol. 183; p. 659.
Door-check. P. E. Nordqvist. No. 1,041,853; Oct. 22; Gaz. vol. 183; p. 839.
Door-check. E. P. Prator. No. 1,041,869; Oct. 22; Gaz. vol. 183; p. 845.
Door-check. J. C. A. Anderson. No. 1,044,723; Nov. 19; Gaz. vol. 184; p. 645.
Door-check. G. Basler. No. 1,044,728; Nov. 19; Gaz. vol. 184; p. 647.
Door-check. E. Anhorn. No. 1,044,843; Nov. 19; Gaz. vol. 184; p. 687.
Door check and closer. J. G. Lofgren. No. 1,013,788; Jan. 2; Sp. p. 1529; Gaz. vol. 174; p. 243.
Door check and closer. M. J. Flynn. No. 1,020,033; Mar. 12; Sp. p. 2186; Gaz. vol. 176; p. 377.
Door check and closer. P. E. Nordqvist. No. 1,041,854; Oct. 22; Gaz. vol. 183; p. 839.
Door check and closer. D. J. Hurley. No. 1,049,096; Dec. 31; Gaz. vol. 185; p. 1277.
Door check and holder. A. Rispel. No. 1,035,235; Aug. 13; Gaz. vol. 181; p. 309.
Door check and holder. H. A. Gustafsson. No. 1,042,340; Oct. 22; Gaz. vol. 183; p. 1001.
Door check and lock, Combined. E. von Gunten. No. 1,037,377; Sept. 3; Gaz. vol. 182; p. 67.
Door check and spring. C. T. Rogers. No. 1,042,274; Oct. 22; Gaz. vol. 183; p. 977.
Door-check, Concealed. P. E. Nordqvist. No. 1,041,857; Oct. 22; Gaz. vol. 183; p. 840.
Door-check cushion-stop. H. G. Voight. No. 1,024,465; Apr. 23; Sp. p. 5798; Gaz. vol. 177; p. 1007.
Door-check, Link. G. C. Klein. No. 1,029,693; June 18; Sp. p. 3520; Gaz. vol. 179; p. 624.
Door-check mechanism. P. E. Nordqvist. No. 1,041,856; Oct. 22; Gaz. vol. 183; p. 839.
Door check or the like, Screen-. A. E. Molin. No. 1,044,225; Nov. 12; Gaz. vol. 184; p. 442.
Door-check stop. W. K. Henry. No. 1,028,460; June 4; Sp. p. 877; Gaz. vol. 179; p. 132.
Door-check valve mechanism. P. E. Nordqvist. No. 1,041,855; Oct. 22; Gaz. vol. 183; p. 839.
Door-clamp. J. B. Job. No. 1,042,232; Oct. 22; Gaz. vol. 183; p. 965.
Door-closer. A. H. Stutler. No. 1,014,266; Jan. 9; Sp. p. 2614; Gaz. vol. 174; p. 436.
Door-closer. H. G. Voight. No. 1,017,714; Feb. 20; Sp. p. 3223; Gaz. vol. 175; p. 579.
Door-closer. J. D. Humphrey. No. 1,040,683; Oct. 8; Gaz. vol. 183; p. 378.
Door closer and check. M. C. Clark. No. 1,046,556; Dec. 10; Gaz. vol. 185; p. 303.
Door closing and checking device. A. H. Sulser. No. 1,019,857; Mar. 12; Sp. p. 1815; Gaz. vol. 176; p. 318.
Door-closing apparatus. W. Duggan, Jr. No. 1,026,155; May 14; Sp. p. 2348; Gaz. vol. 178; p. 396.
Door-closing device. J. Sheffer. No. 1,042,829; Oct. 29; Gaz. vol. 183; p. 1199.
Door-closing means, Sliding-. R. H. Reh and Y. Burgess. No. 1,018,442; Feb. 27; Sp. p. 4888; Gaz. vol. 175; p. 865.
Door-closing mechanism. O. C. Rixson. No. 1,025,309; May 7; Sp. p. 447; Gaz. vol. 178; p. 71.
Door. Combined screen and storm. L. Hansen. No. 1,022,547; Apr. 9; Sp. p. 1671; Gaz. vol. 177; p. 297.
Door construction, Sliding-. J. R. Hussey. No. 1,015,025; Jan. 16; Sp. p. 4313; Gaz. vol. 174; p. 726.
Door controlling and locking means. H. G. Voight. No. 1,040,970; Oct. 8; Gaz. vol. 183; p. 471.
Door-controlling device. E. Wylde and C. Schenck. No. 1,044,115; Nov. 12; Gaz. vol. 184; p. 405.
Door-controlling means. H. G. Voight. No. 1,028,833; June 4; Sp. p. 1643; Gaz. vol. 179; p. 256.
Door-controlling means. H. G. Voight. No. 1,040,969; Oct. 8; Gaz. vol. 183; p. 470.
Door-controlling means. H. G. Voight. No. 1,041,705; Oct. 15; Gaz. vol. 183; p. 750.
Door-controlling means. H. G. Voight. No. 1,041,706; Oct. 15; Gaz. vol. 183; p. 750.
Door, Electrically-operated. G. Korytowski. No. 1,018,246; Feb. 20; Sp. p. 4461; Gaz. vol. 175; p. 766.
Door-fastener. H. Jetté. No. 1,014,755; Jan. 16; Sp. p. 3702; Gaz. vol. 174; p. 632.
Door-fastener. E. A. Kutz. No. 1,030,192; June 18; Sp. p. 4615; Gaz. vol. 179; p. 795.
Door, &c., fastener. R. E. Jones. No. 1,046,072; Dec. 3; Gaz. vol. 185; p. 93.
Door-fastener, Burglar-proof. F. Buskirk. No. 1,040,505; Oct. 8; Gaz. vol. 183; p. 311.
Door fastener, Emergency-exit-. R. L. G. Palm. No. 1,029,626; June 18; Sp. p. 3375; Gaz. vol. 179; p. 601.
Door fastener, Sliding-. J. H. Simonton. No. 1,015,646; Jan. 23; Sp. p. 5645; Gaz. vol. 174; p. 964.
Door fastener, Sliding-. J. M. Hopkins. No. 1,021,524; Mar. 26; Sp. p. 5380; Gaz. vol. 176; p. 968.
Door fastener, Sliding-. D. E. Shranger. No. 1,034,395; July 30; Gaz. vol. 180; p. 1363.
Door for silos, Vertical-swing. J. D. La Tier. No. 1,046,611; Dec. 10; Gaz. vol. 185; p. 322.
Door-frame. T. Buchholz. No. 1,015,989; Jan. 30; Sp. p. 6370; Gaz. vol. 174; p. 1109.
Door-frame. A. J. Ellis. No. 1,034,601; Aug. 6; Gaz. vol. 181; p. 66.
Door-frame. C. P. Vernier. No. 1,038,994; Sept. 17; Gaz. vol. 182; p. 684.
Door-frame, Hollow metal. A. J. Ellis and C. E. Nellis. No. 1,031,331; July 2; Gaz. vol. 180; p. 170.
Door, Grain-. M. S. Greeley. No. 1,013,766; Jan. 2; Sp. p. 1495; Gaz. vol. 174; p. 237.
Door, Grain-. C. P. Coon. No. 1,019,025; Mar. 5; Sp. p. 21; Gaz. vol. 176; p. 7.

Alphabetical list of inventions—Continued.

Door, Grain-. C. A. Larsen. No. 1,020,831; Mar. 19; Sp. p. 3891; Gaz. vol. 176; p. 680.
Door, Grain-. J. Henry. No. 1,029,061; June 11; Sp. p. 2150; Gaz. vol. 179; p. 370.
Door, Grain-. C. W. White. No. 1,038,696; Sept. 17; Gaz. vol. 182; p. 582.
Door, Grain-. W. Gradick, Sr. No. 1,045,278; Nov. 26; Gaz. vol. 184; p. 867.
Door-guide, Automatic. J. D. Wiese. No. 1,040,829; Oct. 8; Gaz. vol. 183; p. 424.
Door-hanger. W. W. Nicodemus. No. 1,015,827; Jan. 30; Sp. p. 6018; Gaz. vol. 174; p. 1051.
Door-hanger. A. Perlman. No. 1,016,438; Feb. 6; Sp. p. 461; Gaz. vol. 175; p. 70.
Door-hanger. P. L. Hoffman. No. 1,017,757; Feb. 20; Sp. p. 3326; Gaz. vol. 175; p. 595.
Door-hanger. S. and T. H. Parry. No. 1,020,776; Mar. 19; Sp. p. 3778; Gaz. vol. 176; p. 662.
Door-hanger. P. M. Elliott. No. 1,025,617; May 7; Sp. p. 1154; Gaz. vol. 178; p. 177.
Door-hanger. F. W. S. Elstroth. No. 1,027,645; May 28; Sp. p. 5584; Gaz. vol. 178; p. 976.
Door-hanger. F. W. S. Elstroth. No. 1,027,705; May 28; Sp. p 5720; Gaz. vol. 178; p. 997.
Door-hanger. H. L. Ferris. No. 1,027,714; May 28; Sp. p. 5736; Gaz. vol. 178; p. 999.
Door-hanger. A. H. Neller and R. B. Louden. No. 1,028,900; June 11; Sp. p. 1811; Gaz. vol. 179; p. 315.
Door-hanger. Z. T. Crego. No. 1,029,913; June 18; Sp. p. 4036; Gaz. vol. 179; p. 701.
Door-hanger. J. L. Kail. No. 1,033,177; July 23; Gaz. vol. 180; p. 922.
Door-hanger. C. T. Westlin and G. S. Ellithorpe. No. 1,035,064; Aug. 6; Gaz. vol. 181; p. 220.
Door-hanger. J. T. McCabe. No. 1,038,502; Sept. 10; Gaz. vol. 182; p. 480.
Door-hanger. J. F. Murphy. No. 1,038,938; Sept. 17; Gaz. vol. 182; p. 666.
Door-hanger. L. A. Bittorf. No. 1,039,246; Sept. 24; Gaz. vol. 182; p. 788.
Door-hanger. L. E. Fournier. No. 1,039,720; Oct. 1; Gaz. vol. 183; p. 17.
Door-hanger. C. O. Marx. No. 1,041,833; Oct. 22; Gaz. vol. 183; p. 832.
Door-hanger. J. G. King. No. 1,042,927; Oct. 29; Gaz. vol. 183; p. 1233.
Door-hanger. I. Johnson. No. 1,046,071; Dec. 3; Gaz. vol. 185; p. 93.
Door-hanger. G. T. Buddle. No. 1,046,961; Dec. 10; Gaz. vol. 185; p. 443.
Door hanger and track. D. A. Dodge. No. 1,032,122; July 9; Gaz. vol. 180; p. 480.
Door hanger and track. M. J. Evans. No. 1,041,053; Oct. 15; Gaz. vol. 183; p. 532.
Door hanger and track, Combined. W. J. Fisher. No. 1,015,161; Jan. 16; Sp. p. 4571; Gaz. vol. 174; p. 770.
Door hanger and track construction. J. W. Rumsey. No. 1,041,880; Oct. 22; Gaz. vol. 183; p. 849.
Door-hanger, Ball-bearing. H. M. Haun. No. 1,045,284; Nov. 26; Gaz. vol. 184; p. 869.
Door-hanger, Releasing. J. L. Rifer. No. 1,027,504; May 28; Sp. p. 5308; Gaz. vol. 178; p. 930.
Door hanger, Sliding-. O. W. Dolph. No. 1,041,446; Oct. 15; Gaz. vol. 183; p. 664.
Door-hanger track. H. L. Ferris. No. 1,027,713; May 28; Sp. p. 5735; Gaz. vol. 178; p. 999.
Door-hanger track. P. Frantz. No. 1,034,608; Aug. 6; Gaz. vol. 181; p. 68.
Door-hanger track. A. J. Eggleston. No. 1,036,589; Aug. 27; Gaz. vol. 181; p. 847.
Door-hanger track. J. H. Lawrence. No. 1,040,960; Oct. 8; Gaz. vol. 183; p. 467.
Door-hanger track. P. Frantz. (Reissue.) No. 13,497; Dec. 17; Gaz. vol. 185; p. 806.
Door hangers, Track for barn-. H. L. Ferris. No. 1,032,056; July 9; Gaz. vol. 180; p. 459.
Door, hatch, or like closing device. G. Mazzolini. No. 1,029,620; June 18; Sp. p. 3364; Gaz. vol. 179; p. 599.
Door-holder. R. B. Ogden. No. 1,036,890; Aug. 27; Gaz. vol. 181; p. 946.
Door-holder. F. J. Lee. No. 1,040,360; Oct. 8; Gaz. vol. 183; p. 261.
Door-holder. P. Denitz and A. Jacobs. No. 1,045,127; Nov. 26; Gaz. vol. 184; p. 814.
Door-holder. B. F. Foss. No. 1,048,060; Dec. 24; Gaz. vol. 185; p. 883.
Door, Hollow metal. A. J. Ellis and C. E. Nellis. No. 1,039,370; Sept. 24; Gaz. vol. 182; p. 830.
Door-jack. J. C. Warner. No. 1,018,282; Feb. 20; Sp. p. 4525; Gaz. vol. 175; p. 778.
Door-jamb, Adjustable. J. J. Smith. No. 1,046,666; Dec. 10; Gaz. vol. 185; p. 342.
Door-jamb setter. F. Scelza. No. 1,017,811; Feb. 20; Sp. p. 3491; Gaz. vol. 175; p. 614.
Door-lock. M. Rasmussen. No. 1,015,070; Jan. 16; Sp. p. 4406; Gaz. vol. 174; p. 740.
Door-lock. J. T. Grzybowski. No. 1,017,289; Feb. 13; Sp. p. 2350; Gaz. vol. 175; p. 400.
Door-lock. A. Petterson. No. 1,018,077; Feb. 20; Sp. p. 4111; Gaz. vol. 175; p. 768.
Door-lock. J. M. Sauleiko. No. 1,019,844; Mar. 12; Sp. p. 1787; Gaz. vol. 176; p. 313.
Door-lock. J. Caldwell. No. 1,028,929; June 11; Sp. p. 1879; Gaz. vol. 179; p. 324.
Door-lock. W. D. Markley. No. 1,030,313; June 25; Sp. p. 4916; Gaz. vol. 179; p. 877.
Door-lock. J. Schicke. No. 1,031,293; July 2; Gaz. vol. 180; p. 157.
Door-lock. A. Tresselt. No. 1,032,034; July 9; Gaz. vol. 180; p. 452.
Door-lock. J. Schmittberger. No. 1,036,346; Aug. 20; Gaz. vol. 181; p. 731.
Door-lock. G. Sahmer. No. 1,038,663; Sept. 17; Gaz. vol. 182; p. 570.
Door-lock. J. Caldwell. No. 1,046,438; Dec. 10; Gaz. vol. 185; p. 260.
Door-lock. J. E. Boyce. No. 1,047,160; Dec. 17; Gaz. vol. 185; p. 540.
Door, &c., lock. R. Woolsey. No. 1,048,628; Dec. 31; Gaz. vol. 185; p. 1114.
Door lock and bell, Combined. A. W. Summers and J. V. Thompson. No. 1,022,275; Apr. 2; Sp. p. 1094; Gaz. vol. 177; p. 175.
Door lock and signal. N. Silverson. No. 1,037,674; Sept. 3; Gaz. vol. 182; p. 168.
Door lock, Communicating-. H. G. Voight and N. B. Hurd. No. 1,018,534; Feb. 27; Sp. p. 5149; Gaz. vol. 175; p. 896.
Door-lock, Cylinder. G. N. Mason. No. 1,032,920; July 16; Gaz. vol. 180; p. 796.
Door-lock, Emergency. H. G. Voight. No. 1,026,888; May 21; Sp. p. 3966; Gaz. vol. 178; p. 683.
Door lock, Emergency-exit-. A. J. Butler. No. 1,033,151; July 23; Gaz. vol. 180; p. 913.
Door lock, Emergency-exit-. R. C. and H. A. Hannum. No. 1,039,734; Oct. 1; Gaz. vol. 183; p. 22.
Door-lock fastener. J. Powers. No. 1,020,157; Mar. 12; Sp. p. 2456; Gaz. vol. 176; p. 418.
Door-lock, Gravity. A. E. Spooner. No. 1,047,847; Dec. 17; Gaz. vol. 185; p. 785.
Door-lock, Keyless combination. J. J. Schaefer. No. 1,017,327; Feb. 13; Sp. p. 2434; Gaz. vol. 175; p. 413.
Door lock, Passage-. H. G. Voight and N. B. Hurd. No. 1,028,407; June 4; Sp. p. 757; Gaz. vol. 179; p. 114.
Door-lock, Permutation. J. Pignocco. No. 1,015,832; Jan. 30; Sp. p. 6029; Gaz. vol. 174; p. 1053.
Door-lock, Pneumatic. J. C. Messick. No. 1,038,624; Sept. 17; Gaz. vol. 182; p. 557.
Door-lock, Recording. J. F. Cole. No. 1,043,069; Nov. 5; Gaz. vol. 184; p. 6.
Door lock, Sliding-. R. F. Franklin. No. 1,032,595; July 16; Gaz. vol. 180; p. 686.
Door lock, Sliding-. H. L. Ewing. No. 1,034,699; Aug. 6; Gaz. vol. 181; p. 99.
Door lock, Sliding-. J. Schmittberger. No. 1,036,348; Aug. 20; Gaz. vol. 181; p. 732.
Door lock, Sliding-. H. G. Voight. No. 1,040,967; Oct. 8; Gaz. vol. 183; p. 469.
Door lock, Sliding-. H. G. Voight. No. 1,041,704; Oct. 15; Gaz. vol. 183; p. 749.
Door lock, Sliding-. H. V. Cookingham and G. O. Price. No. 1,042,326; Oct. 22; Gaz. vol. 183; p. 995.
Door lock, Sliding-. G. V. Schatz. No. 1,046,336; Dec. 3; Gaz. vol. 185; p. 187.
Door lock, Sliding-. R. U. Gibson. No. 1,048,678; Dec. 31; Gaz. vol. 185; p. 1133.
Door-lock, Springless. C. Brown. No. 1,037,588; Sept. 3; Gaz. vol. 182; p. 138.
Door lock, Wardrobe-. H. G. Voight and N. B. Hurd. No. 1,024,468; Apr. 23; Sp. p. 5803; Gaz. vol. 177; p. 1008.
Door-locking apparatus. Jail-. F. Adam. No. 1,034,672; Aug. 6; Gaz. vol. 181; p. 89.
Door-locking device. E. B. Brady. No. 1,032,585; July 16; Gaz. vol. 180; p. 682.
Door-locking device. Folding-. J. J. Kalivoda. No. 1,039,952; Oct. 1; Gaz. vol. 183; p. 93.
Door-locking device, Folding-. J. J. Kalivoda. No. 1,039,953; Oct. 1; Gaz. vol. 183; p. 94.
Door-locking means. F. Schmidgall. No. 1,024,603; Apr. 30; Sp. p. 6183; Gaz. vol. 177; p. 1091.
Door-locking mechanism. C. J. Ericson. No. 1,014,960; Jan. 16; Sp. p. 4179; Gaz. vol. 174; p. 703.
Door-mat. E. M. Forbes. No. 1,028,871; June 11; Sp. p. 1738; Gaz. vol. 179; p. 304.
Door-mat. L. Giclas. No. 1,029,802; June 18; Sp. p. 3767; Gaz. vol. 179; p. 662.
Door-mat. E. M. Forbes. (Reissue.) No. 13,460; Aug. 27; Gaz. vol. 181; p. 1045.
Door, Metal. L. G. Fowler and H. V. Thomas. No. 1,042,903; Oct. 29; Gaz. vol. 183; p. 1225.
Door, Metallic. E. N. Gould. No. 1,013,934; Jan. 9; Sp. p. 1894; Gaz. vol. 174; p. 322.
Door, Metallic. E. G. Budd. No. 1,020,742; Mar. 19; Sp. p. 3708; Gaz. vol. 176; p. 650.
Door, Metallic. J. I. Lempera. No. 1,021,053; Mar. 26; Sp. p. 4351; Gaz. vol. 176; p. 807.
Door, Metallic. C. M. Sinclair. No. 1,025,023; Apr. 30; Sp. p. 7039; Gaz. vol. 177; p. 1237.
Door motor-gearing, Revolving-. E. C. Haviland. No. 1,015,491; Jan. 23; Sp. p. 5311; Gaz. vol. 174; p. 910.

Alphabetical list of inventions—Continued.

Door mounting, Sliding-. A. Voigt. No. 1,048,240; Dec. 24; Gaz. vol. 185; p. 942.
Door-opener. B. F. Souther. No. 1,026,284; May 14; Sp. p. 2629; Gaz. vol. 178; p. 440.
Door-opener. J. H. Kitchen and H. Stiller. No. 1,042,800; Oct. 29; Gaz. vol. 183; p. 1189.
Door opening and closing device. H. C. Bundy. No. 1,040,504; Oct. 8; Gaz. vol. 183; p. 310.
Door opening and closing mechanism. F. Knight. No. 1,037,267; Sept. 3; Gaz. vol. 182; p. 30.
Door operating and locking device, Combined. F. M. Brinckerhoff. No. 1,038,837; Sept. 17; Gaz. vol. 182; p. 632.
Door-operating appliance, Automatic. M. Hynek. No. 1,026,805; May 21; Sp. p. 3773; Gaz. vol. 178; p. 653.
Door-operating device. C. Alter. No. 1,027,231; May 21; Sp. p. 4754; Gaz. vol. 178; p. 800.
Door-operating device. A. E. Ostrander. No. 1,041,864; Oct. 22; Gaz. vol. 183; p. 842.
Door-operating device. D. S. Barrows. No. 1,042,384; Oct. 29; Gaz. vol. 183; p. 1042.
Door-operating device, Jail-. C. M. Finch. No. 1,013,481; Jan. 2; Sp. p. 852; Gaz. vol. 174; p. 136.
Door-operating device, Sliding-. A. Krause. No. 1,032,148; July 9; Gaz. vol. 180; p. 489.
Door-operating means. D. F. Youngblood. No. 1,030,699; June 25; Sp. p. 5944; Gaz. vol. 179; p. 1016.
Door-operating means. G. J. Kosters. No. 1,046,608; Dec. 10; Gaz. vol. 185; p. 321.
Door-operating mechanism. J. Brombacher. No. 1,014,367; Jan. 9; Sp. p. 2856; Gaz. vol. 174; p. 472.
Door-operating mechanism. S. Jones. No. 1,024,582; Apr. 30; Sp. p. 6123; Gaz. vol. 177; p. 1084.
Door-operating mechanism. C. P. Turner, W. T. Drake, and J. E. Little. No. 1,025,890; May 7; Sp. p. 1752; Gaz. vol. 178; p. 270.
Door-operating mechanism. A. D. Lake. No. 1,026,170; May 14; Sp. p. 2377; Gaz. vol. 178; p. 401.
Door-operating mechanism. F. H. Gibbs. No. 1,030,808; June 25; Sp. p. 6252; Gaz. vol. 179; p. 1056.
Door-operating mechanism. T. J. Heron. No. 1,039,393; Sept. 24; Gaz. vol. 182; p. 838.
Door-operating mechanism. T. H. Tutwiler and A. D. McWhorter. No. 1,040,817; Oct. 8; Gaz. vol. 183; p. 420.
Door-operating mechanism. G. M. Cameron. No. 1,040,880; Oct. 8; Gaz. vol. 183; p. 439.
Door-operating mechanism, Automatic. W. D. Baker. No. 1,029,255; June 11; Sp. p. 2569; Gaz. vol. 179; p. 435.
Door-operating mechanism, Sliding-. M. Cossey. No. 1,023,723; Apr. 16; Sp. p. 4143; Gaz. vol. 177; p. 727.
Door operator and lock. T. H. Garland. No. 1,037,893; Sept. 10; Gaz. vol. 182; p. 273.
Door or gate hook. C. Scott. No. 1,036,013; Aug. 20; Gaz. vol. 181; p. 611.
Door or window lock. V. J. Daniels. No. 1,042,329; Oct. 22; Gaz. vol. 183; p. 996.
Door, Pay-as-you-enter. E. N. Kleinbaum. No. 1,022,684; Apr. 9; Sp. p. 1978; Gaz. vol. 177; p. 343.
Door, Poultry-house. R. H. Shaw. No. 1,043,543; Nov. 5; Gaz. vol. 184; p. 178.
Door-releasing mechanism. A. Christianson. No. 1,044,491; Nov. 19; Gaz. vol. 184; p. 564.
Door, Revolving. K. O. S. Ramondt. No. 1,030,266; June 18; Sp. p. 4786; Gaz. vol. 179; p. 822.
Door, Revolving. D. M. Quay. No. 1,030,849; June 25; Sp. p. 6434; Gaz. vol. 179; p. 1072.
Door, Revolving. H. W. Dyer. No. 1,045,827; Dec. 3; Gaz. vol. 185; p. 11.
Door safety-bolt. F. X. Hofbauer. No. 1,038,752; Sept. 17; Gaz. vol. 182; p. 602.
Door-securer. A. Lochhead. No. 1,033,255; July 23; Gaz. vol. 180; p. 949.
Door-securer. E. F. Vincent. No. 1,038,690; Sept. 17; Gaz. vol. 182; p. 580.
Door-securer. C. H. Stevenson. No. 1,043,549; Nov. 5; Gaz. vol. 184; p. 181.
Door-securing device. R. Heinzelman. No. 1,026,745; May 21; Sp. p. 3635; Gaz. vol. 178; p. 632.
Door-securing device. I. G. Dodge. No. 1,037,457; Sept. 3; Gaz. vol. 182; p. 96.
Door-securing device. J. Kelly. No. 1,038,897; Sept. 17; Gaz. vol. 182; p. 652.
Door-securing device. E. B. Noel. No. 1,046,102; Dec. 3; Gaz. vol. 185; p. 104.
Door, Sheet-metal. G. H. Hess. No. 1,044,047; Nov. 12; Gaz. vol. 184; p. 382.
Door, Sidewalk-. L. W. Mulford. No. 1,015,579; Jan. 23; Sp. p. 5495; Gaz. vol. 174; p. 940.
Door, Silo-. F. E. Parrish. No. 1,035,726; Aug. 13; Gaz. vol. 181; p. 478.
Door, Silo-. J. M. Moore. No. 1,037,963; Sept. 10; Gaz. vol. 182; p. 298.
Door, Silo-. C. J. Craig. No. 1,047,755; Dec. 17; Gaz. vol. 185; p. 753.
Door, Sliding. C. Gordon. No. 1,029,288; June 11; Sp. p. 2632; Gaz. vol. 179; p. 446.
Door, Spring-. W. H. Jordan. No. 1,028,571; June 4; Sp. p. 1108; Gaz. vol. 179; p. 168.
Door-spring. N. B. Wilder. No. 1,045,652; Nov. 26; Gaz vol. 184; p. 1000.
Door-stop. H. J. Cline. No. 1,015,424; Jan. 23; Sp. p. 5158; Gaz. vol. 174; p. 886.
Door-stop. J. W. Buoy. No. 1,018,871; Feb. 27; Sp. p. 5856; Gaz. vol. 175; p. 1011.
Door-stop. J. N. Tate. No. 1,035,264; Aug. 13; Gaz. vol. 181; p. 320.
Door-stop. A. A. Coffin. No. 1,037,439; Sept. 3; Gaz. vol. 182; p. 89.
Door-stop. F. W. Stanton. No. 1,039,461; Sept. 24; Gaz. vol. 182; p. 861.
Door stop and holder. G. W. Rigney. No. 1,026,702; May 21; Sp. p. 3543; Gaz. vol. 178; p. 618.
Door stop and holder. J. H. Coffman. No. 1,040,887; Oct. 8; Gaz. vol. 183; p. 442.
Door-strip. L. J. Valentine. No. 1,028,801; June 4; Sp. p. 1574; Gaz. vol. 179; p. 246.
Door-switch. J. G. Peterson. No. 1,023,224; Apr. 16; Sp. p. 3175; Gaz. vol. 177; p. 568.
Door-switch. E. Anderson. No. 1,031,611; July 2; Gaz. vol. 180; p. 264.
Door track and cap, Sliding-. M. H. McNamara. No. 1,023,950; Apr. 23; Sp. p. 4684; Gaz. vol. 177; p. 831.
Door track and hanger. W. F. Hackney. No. 1,028,714; June 4; Sp. p. 1389; Gaz. vol. 179; p. 216.
Door track and hanger construction. J. W. Rumsey. No. 1,031,677; July 2; Gaz. vol. 180; p. 287.
Door wall-bed, Reversible-. L. E. Frye. No. 1,034,611; Aug. 6; Gaz. vol. 181; p. 69.
Doors and analogous uses, Metal structure for. A. H. Schaffert. No. 1,015,212; Jan. 16; Sp. p. 4668; Gaz. vol. 174; p. 788.
Doors and other objects, Supporting mechanism for. E. McClure. No. 1,019,335; Mar. 5; Sp. p. 736; Gaz. vol. 176; p. 114.
Doors, Device for operating double. C. H. Wegner. No. 1,046,916; Dec. 10; Gaz. vol. 185; p. 428.
Doors, Fluid-pressure apparatus for operating bulkhead and other. F. J. Pike and H. Neville. No. 1,039,185; Sept. 24; Gaz. vol. 182; p. 764.
Doors, Speed-controlling mechanism for revolving. G. C. Blickensderfer. No. 1,014,997; Jan. 16; Sp. p. 4266; Gaz. vol. 174; p. 716.
Doorways, Brace connection for silo-. J. D. La Tier. No. 1,046,612; Dec. 10; Gaz. vol. 185; p. 323.
Double-compartment substance-holder. E. Fuchs. No. 1,033,689; July 23; Gaz. vol. 180; p. 1091.
Double-cylinder engine. A. G. Bethard. No. 1,026,198; May 14; Sp. p. 2449; Gaz. vol. 178; p. 411.
Double-jaw friction-grip clamp. F. Thomas. No. 1,037,560; Sept. 3; Gaz. vol. 182; p. 130.
Double-throw switch. R. Cannan and J. A. Misland. No. 1,025,454; May 7; Sp. p. 773; Gaz. vol. 178; p. 121.
Doubletree. H. E. Livingston. No. 1,028,038; May 28; Sp. p. 6471; Gaz. vol. 178; p. 1107.
Doubletree. F. M. Fleishman. No. 1,032,749; July 16; Gaz. vol. 180; p. 741.
Doubletree, Slide-equalizer. P. A. Larsen. No. 1,028,746; June 4; Sp. p. 1470; Gaz. vol. 179; p. 227.
Doubletree, Three-horse. H. E. Bridgman. No. 1,039,020; Sept. 17; Gaz. vol. 182; p. 692.
Doubling and twisting frames, &c., Stop-motion device for. W. Sharkie. No. 1,033,740; July 23; Gaz. vol. 180; p. 1107.
Doubling and twisting machinery, Means for wetting yarns for use in. J. D. Whyte. No. 1,035,929; Aug. 20; Gaz. vol. 181; p. 585.
Doubling and twisting machines, Attachment for thread. G. F. Macfarlane. No. 1,029,382; June 11; Sp. p. 2855; Gaz. vol. 179; p. 480.
Doubling machine, Fabric-. A. Leisel. No. 1,042,129; Oct. 22; Gaz. vol. 183; p. 930.
Douche-cup, Vaginal. M. H. Kutch. No. 1,033,808; July 30; Gaz. vol. 180; p. 1157.
Dough, Aeration of. M. A. Adam. No. 1,017,361; Feb. 13; Sp. p. 2502; Gaz. vol. 175; p. 424.
Dough-cutter. E. W. Carnes. No. 1,031,243; July 2; Gaz. vol. 180; p. 140.
Dough-cutter. E. E. Lawrence. No. 1,032,070; July 9; Gaz. vol. 180; p. 463.
Dough-cutting machine. C. F. Betz. No. 1,017,374; Feb. 13; Sp. p. 2527; Gaz. vol. 175; p. 428.
Dough-cutting-machine scrapper. E. E. Lawrence. No. 1,032,069; July 9; Gaz. vol. 180; p. 463.
Dough, Device for denoting expansion of. G. I. Andersen. No. 1,037,714; Sept. 3; Gaz. vol. 182; p. 180.
Dough-divider. T. Masel. No. 1,021,157; Mar. 26; Sp. p. 4565; Gaz. vol. 176; p. 839.
Dough-divider. R. A. Schulz. No. 1,021,896; Apr. 2; Sp. p. 309; Gaz. vol. 177; p. 51.
Dough-dividing machine. O. Teichmann. No. 1,019,556; Mar. 5; Sp. p. 1249; Gaz. vol. 176; p. 186.
Dough-dividing machine. F. H. Van Houten, Jr. No. 1,028,406; June 4; Sp. p. 754; Gaz. vol. 179; p. 114.
Dough, &c., dividing machine. J. J. Pfenninger. No. 1,039,795; Oct. 1; Gaz. vol. 183; p. 43.
Dough-dividing machine. J. Wilson. No. 1,046,924; Dec. 10; Gaz. vol. 185; p. 431.
Dough, Facilitating the fermentation of. D. J. Hanna. No. 1,036,490; Aug. 20; Gaz. vol. 181; p. 780.
Dough-making apparatus. G. Lunt. No. 1,048,327; Dec. 24; Gaz. vol. 185; p. 973.

Alphabetical list of inventions—Continued.

Dough mixer and kneader. O. D. Woodruff. No. 1,027,960; May 28; Sp. p. 6298; Gaz. vol. 178; p. 1082.
Dough mixer or kneader. C. A. Roseland. No. 1,042,278; Oct. 22; Gaz. vol. 183; p. 979.
Dough mixing and kneading machine. W. J. Travis. No. 1,041,908; Oct. 22; Gaz. vol. 183; p. 857.
Dough-mixing machine. C. E. Oelman. No. 1,019,076; Mar. 5; Sp. p. 147; Gaz. vol. 176; p. 25.
Dough-molding machine. P. Storme. No. 1,018,640; Feb. 27; Sp. p. 5380; Gaz. vol. 175; p. 932.
Dough-molding machine. J. Moores. No. 1,044,803; Nov. 19; Gaz. vol. 184; p. 675.
Dough-raiser. A. L. Fenton. No. 1,026,978; May 21; Sp. p. 4180; Gaz. vol. 178; p. 714.
Dough-raiser. F. T. Lembke. No. 1,039,551; Sept. 24; Gaz. vol. 182; p. 894.
Dough-raiser. M. M. Billingsley. No. 1,045,364; Nov. 26; Gaz. vol. 184; p. 897.
Dough-raising apparatus. J. F. Berthelot. No. 1,034,570; Aug. 6; Gaz. vol. 181; p. 57.
Dough-raising cabinet. M. Klaren. No. 1,042,235; Oct. 22; Gaz. vol. 183; p. 966.
Dough-raising device. M. I. Young. No. 1,013,260; Jan. 2; Sp. p. 370; Gaz. vol. 174; p. 59.
Dough retainer or trough. I. B. Golden. No. 1,040,929; Oct. 8; Gaz. vol. 183; p. 456.
Dough-rounding machine. J. J. Shupe. No. 1,037,343; Sept. 3; Gaz. vol. 182; p. 54.
Dough-rounding machine. H. M. Ruffin. No. 1,037,797; Sept. 3; Gaz. vol. 182; p. 207.
Dough weighing and dividing machine. H. and A. H. Hayssen. No. 1,041,278; Oct. 15; Gaz. vol. 183; p. 610.
Dough-working apparatus. D. J. Hanna. No. 1,028,820; June 4; Sp. p. 1614; Gaz. vol. 179; p. 252.
Dowel. H. Harrild. No. 1,036,229; Aug. 20; Gaz. vol. 181; p. 691.
Dowel-feeding device. H. A. Russell. No. 1,031,589; July 2; Gaz. vol. 180; p. 256.
Dowel-plate for use in the production of screen-frames, &c., Metallic. R. McKnight. No. 1,028,761; June 4; Sp. p. 1496; Gaz. vol. 179; p. 232.
Draft and buffing mechanism, Friction. I. Simpson. No. 1,036,920; Aug. 27; Gaz. vol. 181; p. 956.
Draft apparatus. J. B. Pyles. No. 1,034,299; July 30; Gaz. vol. 180; p. 1330.
Draft apparatus. J. K. and A. O. Miller. No. 1,035,988; Aug. 20; Gaz. vol. 181; p. 603.
Draft appliance. P. E. Waldvogel. No. 1,027,677; May 28; Sp. p. 5663; Gaz. vol. 178; p. 987.
Draft appliance. F. M. Norton and B. C. H. Simpson. No. 1,043,347; Nov. 5; Gaz. vol. 184; p. 108.
Draft appliance. W. Haag. No. 1,044,883; Nov. 19; Gaz. vol. 184; p. 702.
Draft attachment. M. H. Blanchard. No. 1,015,260; Jan. 16; Sp. p. 4776; Gaz. vol. 174; p. 804.
Draft attachment. J. F. Holtzen. No. 1,021,314; Mar. 26; Sp. p. 4894; Gaz. vol. 176; p. 894.
Draft attachment. A. Taicher. No. 1,029,093; June 11; Sp. p. 2230; Gaz. vol. 179; p. 381.
Draft attachment. W. W. White. No. 1,038,697; Sept. 17; Gaz. vol. 182; p. 582.
Draft attachment. A. N. De Groff and C. A. Crandall. No. 1,040,163; Oct. 1; Gaz. vol. 183; p. 165.
Draft device. H. Barber. No. 1,042,523; Oct. 29; Gaz. vol. 183; p. 1093.
Draft-equalizer. E. Compton. No. 1,014,121; Jan. 9; Sp. p. 2309; Gaz. vol. 174; p. 385.
Draft-equalizer. D. P. Sweger. No. 1,020,934; Mar. 19; Sp. p. 4086; Gaz. vol. 176; p. 714.
Draft-equalizer. P. B. Martin and H. Dahlenburg. No. 1,022,490; Apr. 9; Sp. p. 1552; Gaz. vol. 177; p. 278.
Draft-equalizer. F. E. Spencer. No. 1,026,130; May 14; Sp. p. 2301; Gaz. vol. 178; p. 388.
Draft-equalizer. L. R. Cron. No. 1,026,909; May 21; Sp. p. 4015; Gaz. vol. 178; p. 689.
Draft-equalizer. W. J. Campbell. No. 1,027,988; May 28; Sp. p. 6363; Gaz. vol. 178; p. 1093.
Draft-equalizer. R. G. Gose. No. 1,030,078; June 18; Sp. p. 4386; Gaz. vol. 179; p. 756.
Draft-equalizer. J. Deters. No. 1,032,276; July 9; Gaz. vol. 180; p. 534.
Draft-equalizer. S. L. Meek. No. 1,036,135; Aug. 20; Gaz. vol. 181; p. 656.
Draft-equalizer. L. T. Scovel. No. 1,036,351; Aug. 20; Gaz. vol. 181; p. 733.
Draft-equalizer. F. Hamm. No. 1,037,618; Sept. 3; Gaz. vol. 182; p. 147.
Draft-equalizer. N. B. Krangness. No. 1,037,930; Sept. 10; Gaz. vol. 182; p. 287.
Draft-equalizer. W. S. Nichols. No. 1,038,632; Sept. 17; Gaz. vol. 182; p. 560.
Draft-equalizer. W. W. Cameron. No. 1,039,253; Sept. 24; Gaz. vol. 182; p. 790.
Draft-equalizer. G. S. Duffin. No. 1,040,174; Oct. 1; Gaz. vol. 183; p. 169.
Draft-equalizer. H. G. Kleihauer. No. 1,040,352; Oct. 8; Gaz. vol. 183; p. 258.
Draft-equalizer. J. B. Pyles. No. 1,042,269; Oct. 22; Gaz. vol. 183; p. 976.
Draft-equalizer. D. M. Murken. No. 1,043,860; Nov. 12; Gaz. vol. 184; p. 316.
Draft-equalizer. W. G. McConnachie. No. 1,044,556; Nov. 19; Gaz. vol. 184; p. 586.
Draft-equalizer. I. D. Ryan. No. 1,044,577; Nov. 19; Gaz. vol. 184; p. 594.
Draft-equalizer. F. H. Bradshaw. No. 1,044,738; Nov. 19; Gaz. vol. 184; p. 651.
Draft-equalizer. D. W. Emerick. No. 1,045,010; Nov. 19; Gaz. vol. 184; p. 745.
Draft-equalizers, Releasable coupling for. C. S. Carlson. No. 1,019,596; Mar. 5; Sp. p. 1318; Gaz. vol. 176; p. 198.
Draft-equalizing device. J. M. Wright. No. 1,033,365; July 23; Gaz. vol. 180; p. 986.
Draft-evener. J. L. Beene. No. 1,031,164; July 2; Gaz. vol. 180; p. 112.
Draft-evener. F. A. Bressmer and J. Shelhammer. No. 1,040,871; Oct. 8; Gaz. vol. 183; p. 436.
Draft-evener. W. P. Stegmeyer. No. 1,046,890; Dec. 10; Gaz. vol. 185; p. 419.
Draft-evener. H. C. Huff. No. 1,048,170; Dec. 24; Gaz. vol. 185; p. 921.
Draft-gear. C. A. Gilmore. No. 1,014,590; Jan. 9; Sp. p. 3261; Gaz. vol. 174; p. 544.
Draft-gear. H. T. Krakau. No. 1,023,109; Apr. 9; Sp. p. 2885; Gaz. vol 177; p. 490.
Draft-gear. J. F. Courson. No. 1,031,424; July 2; Gaz. vol. 180; p. 201.
Draft-gear. J. R. Cardwell. No. 1,034,199; July 30; Gaz. vol. 180; p. 1294.
Draft-gear. C. J. Nash. No. 1,036,511; Aug. 20; Gaz. vol. 181; p. 788.
Draft-gear. J. J. Hoffman. No. 1,047,225; Dec. 17; Gaz. vol. 185; p. 564.
Draft-gear, Friction. J. F. O'Connor. No. 1,017,230; Feb. 13; Sp. p. 2235; Gaz. vol. 175; p. 380.
Draft member, Metallic. W. D. Henry. No. 1,019,736; Mar. 5; Sp. p. 1576; Gaz. vol. 176; p. 245.
Draft-modifier, Automatic. C. O. Mailloux and H. J. Westover. No. 1,043,616; Nov. 5; Gaz. vol. 184; p. 203.
Draft or other blower sets, Diffusion-vane for forced-. W. J. A. London. No. 1,031,944; July 9; Gaz. vol. 180; p. 422.
Draft-regulator. C. H. McCall. No. 1,032,015; July 9; Gaz. vol. 180; p. 445.
Draft-regulator for hot-water heaters. W. A. Schleit. No. 1,026,965; May 21; Sp. p. 4162; Gaz. vol. 178; p. 710.
Draft-regulator for incubators or other purposes, Thermostatic. J. Boekel. No. 1,016,126; Jan. 30; Sp. p. 6657; Gaz. vol. 174; p. 1157.
Draft-regulator, Thermostatic. J. H. Atterbury. No. 1,014,032; Jan. 9; Sp. p. 2111; Gaz. vol. 174; p. 354.
Draft, Reversible. M. B. Metcalf. No. 1,025,006; Apr. 30; Sp. p. 7013; Gaz. vol. 177; p. 1232.
Draft-rigging. W. H. Potter. No. 1,020,445; Mar. 19; Sp. p. 3044; Gaz. vol. 176; p. 551.
Draft-rigging. W. P. Bettendorf. No. 1,025,445; May 7; Sp. p. 756; Gaz. vol. 178; p. 117.
Draft-rigging. R. G. Taylor. No. 1,033,212; July 23; Gaz. vol. 180; p. 934.
Draft-rigging. C. L. Bundy. No. 1,044,344; Nov. 12; Gaz. vol. 184; p. 485.
Draft-rigging. J. J. Byers. No. 1,044,345; Nov. 12; Gaz. vol. 184; p. 485.
Draft-rigging. J. J. Byers. No. 1,044,346; Nov. 12; Gaz. vol. 184; p. 485.
Draft-rigging. G. Q. Lewis. No. 1,048,710; Dec. 31; Gaz. vol. 185; p. 1144.
Draft-rigging for rolling-stock. H. Straub. No. 1,016,858; Feb. 6; Sp. p. 1380; Gaz. vol. 175; p. 213.
Draft-rigging, Friction. J. F. O'Connor. No. 1,026,113; May 14; Sp. p. 2266; Gaz. vol. 178; p. 382.
Draft-rigging, Friction. J. F. O'Connor. No. 1,044,077; Nov. 12; Gaz. vol. 184; p. 393.
Draft-rigging, Friction. J. F. O'Connor. No. 1,048,729; Dec. 31; Gaz. vol. 185; p. 1149.
Draft-rigging safety-support. C. E. Dath. No. 1,018,485; Feb. 27; Sp. p. 4994; Gaz. vol. 175; p. 879.
Draft-rigging, Stop-casting for tandem-spring. R. G. Ellis. No. 1,042,416; Oct. 29; Gaz. vol. 183; p. 1054.
Draft-rigging, Tandem-spring. R. E. Frame. No. 1,026,741; May 21; Sp. p. 3630; Gaz. vol. 178; p. 631.
Draft through smoke-stacks, Device for creating a. J. D. McKay. No. 1,013,887; Jan. 9; Sp. p. 1781; Gaz. vol. 174; p. 305.
Drafting appliance. O. C. Blair. No. 1,020,253; Mar. 12; Sp. p. 2656; Gaz. vol. 176; p. 450.
Drafting device. O. Linnemann. No. 1,044,461; Nov. 12; Gaz. vol. 184; p. 523.
Drafting device for shading circles. V. Constantinescu. No. 1,027,102; May 21; Sp. p. 4495; Gaz. vol. 178; p. 757.
Drafting instrument. H. G. Bohn. No. 1,014,803; Jan. 16; Sp. p. 3814; Gaz. vol. 174; p. 648.
Drafting instrument. G. H. Cardell. No. 1,015,423; Jan. 23; Sp. p. 5157; Gaz. vol. 174; p. 886.
Drafting instrument. W. C. Pocklington. No. 1,031,665; July 2; Gaz. vol. 180; p. 283.
Draftsman's apparatus. G. S. Smith. No. 1,035,755; Aug. 13; Gaz. vol. 181; p. 487.

Alphabetical list of inventions—Continued.

Draftsman's appliance. R. Williams. No. 1,029,248; June 11; Sp. p. 2556; Gaz. vol. 179; p. 433.
Draftsman's table. F. J. Lang. No. 1,044,196; Nov. 12; Gaz. vol. 184; p. 433.
Drag. M. J. Hill. No. 1,031,553; July 2; Gaz. vol. 180; p. 245.
Drag attachment. E. C. Gledhill. No. 1,039,381; Sept. 24; Gaz. vol. 182; p. 834.
Drag, Revolving. L. Weimar. No. 1,031,894; July 9; Gaz. vol. 180; p. 406.
Drag, Road-. D. Shank. No. 1,018,785; Feb. 27; Sp. p. 5681; Gaz. vol. 175; p. 982.
Drag, Road-. W. L. Bott and O. M. Davis. No. 1,019,417; Mar. 5; Sp. p. 963; Gaz. vol. 176; p. 140.
Drag, Road-. R. W. and C. F. Eifert. No. 1,023,421; Apr. 16; Sp. p. 3557; Gaz. vol. 177; p. 633.
Drag, Road-. W. Stoops. No. 1,038,456; Sept. 10; Gaz. vol. 182; p. 466.
Drain, Area-. G. W. Schodde. No. 1,035,480; Aug. 13; Gaz. vol. 181; p. 396.
Drain, Land-. E. W. Appelman. No. 1,015,530; Jan. 23; Sp. p. 5382; Gaz. vol. 174; p. 922.
Drain-trap. S. G. Brown. No. 1,021,823; Apr. 2; Sp. p. 159; Gaz. vol. 177; p. 26.
Drain-trap. G. J. Dehn. No. 1,046,741; Dec. 10; Gaz. vol. 185; p. 369.
Drainage, Apparatus for disposing of oil-laden. G. V. Ellis. No. 1,041,050; Oct. 15; Gaz. vol. 183; p. 531.
Drainage-governor, Automatic. C. Selin. No. 1,017,178; Feb. 13; Sp. p. 2110; Gaz. vol. 175; p. 362.
Drainage-gutter. J. F. Weitzel. No. 1,028,512; June 4; Sp. p. 987; Gaz. vol. 179; p. 149.
Drainage of moors, Arrangement for the. A. Butz. No. 1,032,186; July 9; Gaz. vol. 180; p. 502.
Drainage system. J. R. Harrison. No. 1,032,405; July 16; Gaz. vol. 180; p. 623.
Drainer, Dish-. C. Andrews, Jr. No. 1,029,906; June 18; Sp. p. 4021; Gaz. vol. 179; p. 699.
Drainer, Dish-. C. A. Holbert. No. 1,045,290; Nov. 26; Gaz. vol. 184; p. 871.
Drapery and grille structure. L. B. Christopherson. No. 1,016,211; Jan. 30; Sp. p. 6813; Gaz. vol. 174; p. 1184.
Draping dummies from an uncut length of cloth, Method and apparatus for. R. F. Downey. No. 1,024,927; Apr. 30; Sp. p. 6860; Gaz. vol. 177; p. 1205.
Draw-bar. W. D. Dambino. No. 1,027,323; May 21; Sp. p. 4939; Gaz. vol. 178; p. 831.
Draw-bar. C. A. Myers. No. 1,044,903; Nov. 19; Gaz. vol. 184; p. 708.
Draw-bar construction. F. L. Cole. No. 1,047,916; Dec. 24; Gaz. vol. 185; p. 837.
Draw-bar mechanism. G. H. Forsyth. No. 1,025,522; May 7; Sp. p. 928; Gaz. vol. 178; p. 144.
Draw-bed. J. M. Gardner. No. 1,025,391; May 7; Sp. p. 637; Gaz. vol. 178; p. 99.
Drawer and file-holder. G. B. Meleney. No. 1,016,890; Feb. 6; Sp. p. 1438; Gaz. vol. 175; p. 224.
Drawer-lock for addressing-machines. D. C. Hughes. No. 1,046,789; Dec. 10; Gaz. vol. 185; p. 386.
Drawer roller suspension. C. U. Carpenter. No. 1,042,646; Oct. 29; Gaz. vol. 183; p. 1136.
Drawer-slide. J. J. Rooney. No. 1,037,542; Sept. 3; Gaz. vol. 182; p. 124.
Drawer-slide. M. Cossey. No. 1,045,523; Nov. 26; Gaz. vol. 184; p. 955.
Drawer, Sliding. K. Král. No. 1,039,548; Sept. 24; Gaz. vol. 182; p. 893.
Drawer, Sponge-. C. J. Whitmore. No. 1,016,119; Jan. 30; Sp. p. 6644; Gaz. vol. 174; p. 1155.
Drawer-stop. V. C. Luppert. No. 1,039,557; Sept. 24; Gaz. vol. 182; p. 896.
Drawer-support. S. M. Wirts. No. 1,037,702; Sept. 3; Gaz. vol. 182; p. 177.
Drawer support, Furniture-. J. F. Dunleavy. No. 1,040,907; Oct. 8; Gaz. vol. 183; p. 448.
Drawer, Vertical-filing. F. L. G. Straubel. No. 1,013,234; Jan. 2; Sp. p. 319; Gaz. vol. 174; p. 51.
Drawing and music case. J. Jorg. No. 1,027,611; May 28; Sp. p. 5525; Gaz. vol. 178; p. 960.
Drawing-board. E. J. Potvin. No. 1,040,010; Oct. 1; Gaz. vol. 183; p. 113.
Drawing-board. R. J. Welton. No. 1,049,015; Dec. 31; Gaz. vol. 185; p. 1249.
Drawing-frames, Clearer and stop-motion for. J. Brady. No. 1,014,042; Jan. 9; Sp. p. 2138; Gaz. vol. 174; p. 357.
Drawing instrument. J. Dzierwa. No. 1,021,583; Mar. 26; Sp. p. 5493; Gaz. vol. 176; p. 987.
Drawing instrument. T. H. McAnelly. No. 1,021,692; Mar. 26; Sp. p. 5676; Gaz. vol. 176; p. 1022.
Drawing instrument. E. T. Childs. No. 1,023,242; Apr. 16; Sp. p. 3205; Gaz. vol. 177; p. 574.
Drawing instrument. J. W. Whalen. No. 1,038,998; Sept. 17; Gaz. vol. 182; p. 686.
Drawing instrument. C. Hill. No. 1,039,057; Sept. 17; Gaz. vol. 182; p. 702.
Drawing instrument. J. W. Whalen. No. 1,043,789; Nov. 5; Gaz. vol. 184; p. 260.
Drawing instrument. S. C. and J. F. Lary. No. 1,045,300; Nov. 26; Gaz. vol. 184; p. 874.
Drawing machine, Curve-. F. S. Woodward. No. 1,031,034; July 2; Gaz. vol. 180; p. 65.
Drawing or marking lines on wearing-apparel, Apparatus for. K. Meyer. No. 1,046,316; Dec. 3; Gaz. vol. 185; p. 180.
Drawing-press. A. H. Seidel. No. 1,013,902; Jan. 9; Sp. p. 1816; Gaz. vol. 174; p. 311.
Drawing-press. F. Orton. No. 1,025,154; May 7; Sp. p. 89; Gaz. vol. 178; p. 16.
Drawing purposes, Formation of the ends of tubes for. H. Higgin. No. 1,031,000; July 2; Gaz. vol. 180; p. 53.
Drawing-roll. W. H. Bolduc. No. 1,018,867; Feb. 27; Sp. p. 5850; Gaz. vol. 175; p. 1009.
Drawing-room fountain. F. Choné. No. 1,049,050; Dec. 31; Gaz. vol. 185; p. 1261.
Drawing sharp edges on metallic bodies, Machine for. H. P. Hanson. No. 1,031,549; July 2; Gaz. vol. 180; p. 243.
Drawings, writings, photographs, blocks, and the like, Machine for the electromechanical reproduction of. H. Carbonnelle. No. 1,024,616; Apr. 30; Sp. p. 6205; Gaz. vol. 177; p. 1095.
Dredge, Dipper-. E. Kreher. No. 1,023,660; Apr. 16; Sp. p. 4040; Gaz. vol. 177; p. 708.
Dredges, Raft for. H. J. Clark. No. 1,019,224; Mar. 5; Sp. p. 480; Gaz. vol. 176; p. 76.
Dredger, Clam-shell. S. C. Smith. No. 1,018,848; Feb. 27; Sp. p. 5806; Gaz. vol. 175; p. 1003.
Dredger for pulverulent material. C. W. Ebeling. No. 1,034,598; Aug. 6; Gaz. vol. 181; p. 65.
Dredger, Suction-. F. Lobnitz. No. 1,013,669; Jan. 2; Sp. p. 1279; Gaz. vol. 174; p. 200.
Dredger, Suction-. E. E. Roberson. No. 1,028,387; June 4; Sp. p. 701; Gaz. vol. 179; p. 107.
Dredger, Suction and pressure. P. Van Wienen. No. 1,038,049; Sept. 10; Gaz. vol. 182; p. 326.
Dredgers, Spud-operating mechanism for. J. A. Johnson. No. 1,021,933; Apr. 2; Sp. p. 373; Gaz. vol. 177; p. 62.
Dredging apparatus. W. T. Donnelly. No. 1,019,610; Mar. 5; Sp. p. 1342; Gaz. vol. 176; p. 203.
Dredging channels. S. A. Geoghegan. No. 1,015,170; Jan. 16; Sp. p. 4586; Gaz. vol. 174; p. 773.
Dredging-machine. I. Peterson. No. 1,034,501; Aug. 6; Gaz. vol. 181; p. 34.
Dredging-machines, Suction-tube for hydraulic. L. J. Baltz. No. 1,024,664; Apr. 30; Sp. p. 6308; Gaz. vol. 177; p. 1112.
Dredging-machines, Suction-tube for hydraulic. L. J. Baltz. No. 1,027,095; May 21; Sp. p. 4478; Gaz. vol. 178; p. 755.
Dress. D. Zavodnik. No. 1,035,671; Aug. 13; Gaz. vol. 181; p. 460.
Dress, Lady's. I. Lefkowitz. No. 1,037,270; Sept. 3; Gaz. vol. 182; p. 31.
Dress or shirt shield, Inflatable. F. P. Baker. No. 1,021,176; Mar. 26; Sp. p. 4610; Gaz. vol. 176; p. 846.
Dress-shield. N. C. Nevin. No. 1,048,727; Dec. 31; Gaz. vol. 185; p. 1149.
Dress-weight tape. A. Wein. No. 1,024,957; Apr. 30; Sp. p. 6917; Gaz. vol. 177; p. 1215.
Dress, Woman's reversible-front house-. W. C. P. Baldwin. No. 1,039,632; Sept. 24; Gaz. vol. 182; p. 922.
Dressing-comb. R. L. Potter. No. 1,025,156; May 7; Sp. p. 96; Gaz. vol. 178; p. 17.
Dressing-table. J. Lurtz. No. 1,029,812; June 18; Sp. p. 3797; Gaz. vol. 179; p. 666.
Drier: *See* Brick-drier; Centrifugal drier; Clayware-drier; Clothes-drier; Corn-drier; Cylindrical drier; Electric drier; Fish-line drier; Fruit-drier; Grain-drier; Grain or seed drier; Gummed-sheet drier; Hair-drier; Laundry-drier; Plant-drier; Rotary drier; Sand-drier; Seed-corn drier; Stocking-drier; Stocking and other fabric drier; Sugar-drier; Wall-board drier.
Drier. W. Landes. No. 1,016,568; Feb. 6; Sp. p. 781; Gaz. vol. 175; p. 116.
Drier. F. P. Hess. No. 1,020,695; Mar. 19; Sp. p. 3601; Gaz. vol. 176; p. 633.
Drier. T. M. Wilson. No. 1,027,513; May 28; Sp. p. 5326; Gaz. vol. 178; p. 933.
Drier. A. L. Griffin. No. 1,030,515; June 25; Sp. p. 5395; Gaz. vol. 179; p. 950.
Drier, J. C. Cogburn. No. 1,034,205; July 30; Gaz. vol. 180; p. 1296.
Drier. J. G. Pierce. No. 1,038,952; Sept. 17; Gaz. vol. 182; p. 671.
Drier. R. D. Greene. No. 1,039,385; Sept. 24; Gaz. vol. 182; p. 835.
Drier. G. E. Scott. No. 1,039,449; Sept. 24; Gaz. vol 182; p. 857.
Drier. C. B. Smith. No. 1,046,664; Dec. 10; Gaz. vol. 185; p. 341.
Dry cell. F. J. Humel. No. 1,015,317; Jan. 23; Sp. p. 4913; Gaz. vol. 174; p. 851.
Dry closet. D. E. Fitzgerald. No. 1,014,213; Jan. 9; Sp. p. 2483; Gaz. vol. 174; p. 417.
Dry goods, Put-up for. M. H. Burch. No. 1,019,021; Mar. 5; Sp. p. 17; Gaz. vol. 176; p. 6.
Dry-kiln. C. A. Wenborne. No. 1,014,190; Jan. 9; Sp. p. 2436; Gaz. vol. 174; p. 409.

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Dry-kiln. E. D. Sidman. No. 1,028,292; June 4; Sp. p. 503; Gaz. vol. 179; p. 73.
Dry-kiln. H. Hunter. No. 1,043,236; Nov. 5; Gaz. vol. 184; p. 67.
Dry-kiln for lumber. J. M. Leaver. No. 1,039,301; Sept. 24; Gaz. vol. 182; p. 807.
Dry-kiln for lumber. J. M. Leaver. No. 1,039,302; Sept. 24; Gaz. vol. 182; p. 807.
Dry-kilns, Curtain for. E. D. Sidman. No. 1,028,293; June 4; Sp. p. 504; Gaz. vol. 179; p. 74.
Dry-pan. R. C. Penfield. (Reissue.) No. 13,356; Jan. 9; Sp. p. 3420; Gaz. vol. 174; p. 566.
Dry-pan screen. J. F. Morgal. No. 1,048,721; Dec. 31; Gaz. vol. 185; p. 1147.
Dry-room hanger. W. Bartholomew. No. 1,025,853; May 7; Sp. p. 1625; Gaz. vol. 178; p. 257.
Dry separator and amalgamator. J. B. Hartman and P. O. Cummiskey. No. 1,034,792; Aug. 6; Gaz. vol. 181; p. 132.
Drying and bleaching. J. D. Tompkins. No. 1,037,370; Sept. 3; Gaz. vol. 182; p. 64.
Drying and ironing machine. W. H. H. Tracy. No. 1,017,349; Feb. 13; Sp. p. 2476; Gaz. vol. 175; p. 420.
Drying and moistening machine, Combination. T. M. Coyle. No. 1,015,786; Jan. 30; Sp. p. 5934; Gaz. vol. 174; p. 1038.
Drying apparatus. A. Gerlach. No. 1,015,796; Jan. 30; Sp. p. 5957; Gaz. vol. 174; p. 1042.
Drying apparatus. F. Lafeuille. No. 1,026,683; May 21; Sp. p. 3505; Gaz. vol. 178; p. 612.
Drying apparatus. H. S. Hopkins. No. 1,034,112; July 30; Gaz. vol. 180; p. 1264.
Drying apparatus. H. S. Hopkins. No. 1,037,254; Sept. 3; Gaz. vol. 182; p. 27.
Drying apparatus. T. Suzuki. No. 1,039,841; Oct. 1; Gaz. vol. 183; p. 58.
Drying apparatus. W. T. Hoofnagle. No. 1,043,011; Oct. 29; Gaz. vol. 183; p. 1261.
Drying apparatus. T. Suzuki. No. 1,043,982; Nov. 12; Gaz. vol. 184; p. 361.
Drying apparatus. W. S. Duell. No. 1,046,058; Dec. 3; Gaz. vol. 185; p. 89.
Drying apparatus for fish, &c. J. W. Clouston. No. 1,033,153; July 23; Gaz. vol. 180; p. 914.
Drying apparatus for pulp-like paste, Two-roll. T. Drzymalla. No. 1,014,956; Jan. 16; Sp. p. 4173; Gaz. vol. 174; p. 702.
Drying-chambers, Arrangement for removing the moist air from. H. Allard. No. 1,025,603; May 7; Sp. p. 1109; Gaz. vol. 178; p. 172.
Drying clothes and other articles, Apparatus for. H. Löfquist. No. 1,047,958; Dec. 24; Gaz. vol. 185; p. 850.
Drying-kiln. L. J. Tripp. (Reissue.) No. 13,372; Feb. 20; Sp. p. 4795; Gaz. vol. 175; p. 821.
Drying-kiln. R. Abernethy. No. 1,038,709; Sept. 17; Gaz. vol. 182; p. 586.
Drying machine, Wool and other fiber. A. Sowden. No. 1,032,713; July 16; Gaz. vol. 180; p. 729.
Drying process and apparatus. G. W. McMullen. No. 1,040,556; Oct. 8; Gaz. vol. 183; p. 330.
Drying process and apparatus. C. P. Bossert. No. 1,046,254; Dec. 3; Gaz. vol. 185; p. 159.
Drying proofed and like fabrics or materials, Apparatus for. J. Spenlé. No. 1,018,992; Feb. 27; Sp. p. 6127; Gaz. vol. 175; p. 1053.
Drying-rack. F. J. Balder, F. J. Lawson, and A. C. Davis. No. 1,036,420; Aug. 20; Gaz. vol. 181; p. 757.
Drying-room. E. E. Perkins. No 1,036,323; Aug. 20; Gaz. vol. 181; p. 723.
Drying system. W. M. Grosvenor. No. 1,014,462; Jan. 9; Sp. p. 3035; Gaz. vol. 174; p. 503.
Drying-table. F. I. Burgher. No. 1,030,281; June 25; Sp. p. 4835; Gaz. vol. 179; p. 865.
Drying timber and other moisture-bearing substances, Apparatus for. H. D. Tiemann. No. 1,019,743; Mar. 5; Sp. p. 1588; Gaz. vol. 176; p. 247.
Drying timber and other moisture-bearing substances, Apparatus for. H. D. Tiemann. No. 1,019,999; Mar. 12; Sp. p. 2120; Gaz. vol. 176; p. 365.
Drill: *See* Automatic drill; Beet-drill; Breast-drill; Chain-drill; Collapsible drill; Diamond drill; Electric drill; Grain-drill; Hammer-drill; Hand or breast drill; High-speed drill; Hydropneumatic drill; Multiple drill; Multiple-spindle drill; Percussive drill; Pneumatic drill; Push-drill; Radial drill; Rail-drill; Ratchet-drill; Rivet-head drill; Rock-drill; Rock, coal, &c., drill; Rock-core drill; Seed-drill; Track-drill; Well-drill.
Drill. S. Doubet. No. 1,013,281; Jan. 2; Sp. p. 419; Gaz. vol. 174; p. 67.
Drill. C. F. Heinkel and J. Muth. No. 1,022,135; Apr. 2; Sp. p. 816; Gaz. vol. 177; p. 129.
Drill. W. R. Down. No. 1,027,039; May 21; Sp. p. 4335; Gaz. vol. 178; p. 735.
Drill. F. F. Cortinas. No. 1,029,491; June 11; Sp. p. 3084; Gaz. vol. 179; p. 517.
Drill. W. H. Critton. No. 1,030,387; June 25; Sp. p. 5073; Gaz. vol. 179; p. 904.
Drill. A. J. King. No. 1,033,419; July 23; Gaz. vol. 180; p. 1004.
Drill. T. J. Thomas. No. 1,035,270; Aug. 13; Gaz. vol. 181; p. 322.
Drill. W. E. Thrasher. No. 1,037,082; Aug. 27; Gaz. vol. 181; p. 1011.
Drill. R. B. Crump and W. M. Robertson. No. 1,037,449; Sept. 3; Gaz. vol. 182; p. 93.
Drill. J. A. Pease. No. 1,042,597; Oct. 29; Gaz. vol. 183; p. 1119.
Drill. J. C. Sullivan. No. 1,044,598; Nov. 19; Gaz. vol. 184; p. 603.
Drill. T. F. Litaker. No. 1,046,615; Dec. 10; Gaz. vol. 185; p. 324.
Drill-actuating mechanism. W. K. Riley. No. 1,030,832; June 25; Sp. p. 6384; Gaz. vol. 179; p. 1065.
Drill and chuck. C. A. Palmgren. No. 1,041,338; Oct. 15; Gaz. vol. 183; p. 629.
Drill and chuck. V. J. Wahlstrom. No. 1,046,237; Dec. 3; Gaz. vol. 185; p. 153.
Drill and drag tractor-hitch. P. M. Knutson. No. 1,041,815; Oct. 22; Gaz. vol. 183; p. 826.
Drill and socket construction. F. G. Echols. No. 1,020,544; Mar. 19; Sp. p. 3254; Gaz. vol. 176; p. 582.
Drill-bar rotating and feeding mechanism. L. C. Hardsocg. No. 1,020,903; Mar. 19; Sp. p. 4030; Gaz. vol. 176; p. 703.
Drill-bit. J. Sohacki and G. W. Cook. No. 1,026,530; May 14; Sp. p. 3165; Gaz. vol. 178; p. 523.
Drill-bit. R. A. Welch. No. 1,043,885; Nov. 12; Gaz. vol. 184; p. 326.
Drill bit, Rock-. A. S. Meguire. No. 1,036,673; Aug. 27; Gaz. vol. 181; p. 875.
Drill-bits and the like, Machine for forming and sharpening. H. J. H. Nathorst and G. Lundström. No. 1,023,476; Apr. 16; Sp. p. 3668; Gaz. vol. 177; p. 650.
Drill-casing pulling-stand. A. C. Ludlum. No. 1,027,867; May 28; Sp. p. 6128; Gaz. vol. 178; p. 1052.
Drill, center-reamer, and countersink-tool, Combined. F. A. Wagner. No. 1,017,352; Feb. 13; Sp. p. 2481; Gaz. vol. 175; p. 421.
Drill-chuck and drill attachment. M. Szeitl. No. 1,035,495; Aug. 13; Gaz. vol. 181; p. 401.
Drill, &c., clamp. C. H. Oslund. No. 1,034,288; July 30; Gaz. vol. 180; p. 1326.
Drill disk attachment. O. G. Rieske. No. 1,015,458; Jan. 23; Sp. p. 5244; Gaz. vol. 174; p. 898.
Drill-extractor. B. F. Betts. No. 1,024,173; Apr. 23; Sp. p. 5175; Gaz. vol. 177; p. 909.
Drill-extractor. B. F. Betts. No. 1,042,873; Oct. 29; Gaz. vol. 183; p. 1215.
Drill forging and sharpening machine. C. O. Borkman. No. 1,022,925; Apr. 9; Sp. p. 2503; Gaz. vol. 177; p. 427.
Drill-holder. D. A. Sine. No. 1,018,729; Feb. 27; Sp. p. 5558; Gaz. vol. 175; p. 962.
Drill-holder. D. A. Sine. (Reissue.) No. 13,408; Apr. 23; Sp. p. 5850; Gaz. vol. 177; p. 1017.
Drill-jig. A. Swainson-Brooke. No. 1,045,633; Nov. 26; Gaz. vol. 184; p. 993.
Drill magazine and chuck. W. F. Sweet. No. 1,022,711; Apr. 9; Sp. p. 2064; Gaz. vol. 177; p. 355.
Drill mounting, Air-feed-. W. Prellwitz. No. 1,019,361; Mar. 5; Sp. p. 821; Gaz. vol. 176; p. 123.
Drill-press. M. Himoff. No. 1,032,410; July 16; Gaz. vol. 180; p. 624.
Drill-press. W. Robertson. No. 1,032,430; July 16; Gaz. vol. 180; p. 631.
Drill-press, Radial. M. Himoff. No. 1,032,408; July 16; Gaz. vol. 180; p. 623.
Drill-press, Radial. M. Himoff. No. 1,032,409; July 16; Gaz. vol. 180; p. 624.
Drill-presses, Automatic speed-change and tap-reversing attachment for. F. P. Miller. No. 1,017,785; Feb. 20; Sp. p. 3439; Gaz. vol. 175; p. 605.
Drill-presses, Key-seat-cutting attachment for. G. Berghansen. No. 1,045,501; Nov. 26; Gaz. vol. 184; p. 945.
Drill-presses, Milling attachment for. R. H. Ritter. No. 1,029,402; June 11; Sp. p. 2916; Gaz. vol. 179; p. 487.
Drill-rod couplings, Safety device for diamond-. V. Soderstrom. No. 1,016,106; Jan. 30; Sp. p. 6623; Gaz. vol. 174; p. 1151.
Drill-rod grab. J. W. Young. No. 1,048,630; Dec. 31; Gaz. vol. 185; p. 1115.
Drill-shoe. F. Kerian. No. 1,047,816; Dec. 17; Gaz. vol. 185; p. 774.
Drill-socket. N. E. Woods. No. 1,019,110; Mar. 5; Sp. p. 223; Gaz. vol. 176; p. 36.
Drill-socket. J. W. Harrison. No. 1,033,099; July 23; Gaz. vol. 180; p. 895.
Drill-socket, Adjustable extension. S. W. Meredith. No. 1,028,126; June 4; Sp. p. 69; Gaz. vol. 179; p. 15.
Drill socket, Air-. R. J. Smith. No. 1,028,623; June 4; Sp. p. 1210; Gaz. vol. 179; p. 185.
Drill-spindles, Feeding attachment for. R. Milne. No. 1,026,595; May 14; Sp. p. 3285; Gaz. vol. 178; p. 543.
Drill-stand. B. H. Locke. No. 1,048,841; Dec. 31; Gaz. vol. 185; p. 1189.
Drill-steel-forming and drill-bit-sharpening machine, Fluid-controlled. J. G. Leyner. No. 1,026,872; May 21; Sp. p. 3916; Gaz. vol. 178; p. 676.
Drills and the like, Bar for. W. K. Riley. No. 1,030,830; June 25; Sp. p. 6381; Gaz. vol. 179; p. 1064.

Alphabetical list of inventions—Continued.

Drills, Automatic turning device for fluid hammer-. J. J. Purcell. No. 1,028,275; June 4; Sp. p. 462; Gaz. vol. 179; p. 68.
Drills, Belt-tightener for. F. K. Hendrickson. No. 1,019,639; Mar. 5; Sp. p. 1397; Gaz. vol. 176; p. 214.
Drills, Disk attachment for. O. G. Rieske. No. 1,030,247; June 18; Sp. p. 4731; Gaz. vol. 179; p. 814.
Drills, Disk attachment for. O. G. Rieske. No. 1,046,221; Dec. 3; Gaz. vol. 185; p. 147.
Drills, Double-disk attachment for. O. G. Rieske. No. 1,049,265; Dec. 31; Gaz. vol. 185; p. 1334.
Drills, Drill-hole-cleaning attachment for hammer-. D. S. Waugh. (Reissue.) No. 13,403; Apr. 9; Sp. p. 2921; Gaz. vol. 177; p. 498.
Drills, Drill-hole-cleaning attachment for hammer-. D. S. Waugh. No. 1,023,899; Apr. 23; Sp. p. 4563; Gaz. vol. 177; p. 814.
Drills, &c., Driving mechanism for portable. J. A. Bradley. No. 1,040,867; Oct. 8; Gaz. vol. 183; p. 435.
Drills, Dust-collector for. W. Prellwitz. No. 1,023,594; Apr. 16; Sp. p. 3915; Gaz. vol. 177; p. 689.
Drills, &c., Hand-ratchet for. C. J. Scholler. No. 1,021,558; Mar. 26; Sp. p. 5438; Gaz. vol. 176; p. 979.
Drills, Shell for core-barrels for rotary. R. Wilcox. No. 1,019,707; Mar. 5; Sp. p. 1517; Gaz. vol. 176; p. 235.
Drilling apparatus. E. B. Clark. No. 1,018,096; Feb. 20; Sp. p. 4157; Gaz. vol. 175; p. 715.
Drilling apparatus. W. H. French. No. 1,047,625; Dec. 17; Gaz. vol. 185; p. 707.
Drilling-bit, Adjustable. W. T. Evans and B. F. Reilly. No. 1,022,129; Apr. 2; Sp. p. 805; Gaz. vol. 177; p. 127.
Drilling bolts and other work, Machine for. E. W. Fishburne. No. 1,021,242; Mar. 26; Sp. p. 4754; Gaz. vol. 176; p. 868.
Drilling bolts, &c., Machine for. E. W. Fishburne. No. 1,034,436; Aug. 6; Gaz. vol. 181; p. 13.
Drilling in rough water, Apparatus for. H. G. Plummer. No. 1,041,158; Oct. 15; Gaz. vol. 183; p. 568.
Drilling-machine. J. N. Brattain. No. 1,016,735; Feb. 6; Sp. p. 1126; Gaz. vol. 175; p. 173.
Drilling-machine. H. A. Ogle. No. 1,017,990; Feb. 20; Sp. p. 3917; Gaz. vol. 175; p. 677.
Drilling-machine. J. P. Karns. No. 1,023,654; Apr. 16; Sp. p. 4023; Gaz. vol. 177; p. 706.
Drilling-machine. O. Cluts, W. Salisbury, and J. W. Turall. No. 1,023,722; Apr. 16; Sp. p. 4142; Gaz. vol. 177; p. 727.
Drilling-machine. S. L. Long. No. 1,031,945; July 9; Gaz. vol. 180; p. 422.
Drilling-machine. M. K. Nakamura. No. 1,032,292; July 9; Gaz. vol. 180; p. 540.
Drilling-machine. L. J. Black. No. 1,034,573; Aug. 6; Gaz. vol. 181; p. 58.
Drilling-machine. A. W. Drake and W. I. Ravert. No. 1,035,428; Aug. 13; Gaz. vol. 181; p. 378.
Drilling-machine. E. L. Burton. No. 1,041,013; Oct. 15; Gaz. vol. 183; p. 519.
Drilling-machine. A. W. Redin. No. 1,043,724; Nov. 5; Gaz. vol. 184; p. 239.
Drilling-machine. P. P. Au Buchon. No. 1,045,246; Nov. 26; Gaz. vol. 184; p. 856.
Drilling-machine post. W. Firman. No. 1,015,160; Jan. 16; Sp. p. 4570; Gaz. vol. 174; p. 770.
Drilling-machine universal-joint coupling. J. P. Karns. No. 1,030,663; June 25; Sp. p. 5869; Gaz. vol. 179; p. 1004.
Drilling-rig. A. C. Zierath. No. 1,048,632; Dec. 31; Gaz. vol. 185; p. 1116.
Drilling-tool, Automatic. W. Kahle. No. 1,034,368; July 30; Gaz. vol. 180; p. 1354.
Drinking apparatus. C. J. Rollefson. No. 1,034,837; Aug. 6; Gaz. vol. 181; p. 147.
Drinking-bowl for animals. R. Markley. No. 1,042,246; Oct. 22; Gaz. vol. 183; p. 969.
Drinking-cup. A. H. Hartman. No. 1,022,548; Apr. 9; Sp. p. 1673; Gaz. vol. 177; p. 297.
Drinking-cup. G. W. Beadle. No. 1,030,637; June 25; Sp. p. 5806; Gaz. vol. 179; p. 995.
Drinking-cup. J. F. Brady. No. 1,048,935; Dec. 31; Gaz. vol. 185; p. 1221.
Drinking-cup, Collapsible. W. S. Matthews. No. 1,020,617; Mar. 19; Sp. p. 3428; Gaz. vol. 176; p. 607.
Drinking-cup, Collapsible. S. Curtis. No. 1,025,380; May 7; Sp. p. 617; Gaz. vol. 178; p. 95.
Drinking-cup, Collapsible. P. A. Bayless and H. D. Henry. No. 1,025,606; May 7; Sp. p. 1114; Gaz. vol. 178; p. 173.
Drinking-cup, Collapsible. E. Von Vargyas and J. W. Deidrick. No. 1,025,937; May 7; Sp. p. 1852; Gaz. vol. 178; p. 285.
Drinking-cup, Collapsible. F. C. Smith. No. 1,037,068; Aug. 27; Gaz. vol. 181; p. 1006.
Drinking-cup, Collapsible. H. F. Rengstorf. No. 1,037,985; Sept. 10; Gaz. vol. 182; p. 306.
Drinking-cup, Collapsible. H. W. Bowman. No. 1,049,199; Dec. 31; Gaz. vol. 185; p. 1311.
Drinking-cup holder, Individual-. J. B. Forsyth. No. 1,025,909; May 7; Sp. p. 1793; Gaz. vol. 178; p. 276.
Drinking-cup holder, Individual-. O. J. Bainum. No. 1,032,527; July 16; Gaz. vol. 180; p. 663.
Drinking cup or goblet, Trick. J. P. Anagnoston. No. 1,030,859; July 2; Gaz. vol. 180; p. 4.
Drinking-cup, Sanitary. F. H. Ellsworth. No. 1,023,998; Apr. 23; Sp. p. 4778; Gaz. vol. 177; p. 848.
Drinking-cups, Machine for making sanitary. G. H. Kaiser. No. 1,018,911; Feb. 27; Sp. p. 5940; Gaz. vol. 175; p. 1023.
Drinking-cups, Making sanitary. A. M. Bliss. No. 1,046,050; Dec. 3; Gaz. vol. 185; p. 86.
Drinking device, Sanitary. J. B. Howell. No. 1,021,677; Mar. 26; Sp. p. 5650; Gaz. vol. 176; p. 1016.
Drinking device, Sanitary. A. D. Seaman. No. 1,028,142; June 4; Sp. p. 137; Gaz. vol. 179; p. 21.
Drinking-fountain. H. N. Roden. No. 1,016,851; Feb. 6; Sp. p. 1364; Gaz. vol. 175; p. 210.
Drinking-fountain. L. D. Lawnin. No. 1,018,572; Feb. 27; Sp. p. 5237; Gaz. vol. 175; p. 910.
Drinking-fountain. A. Byrd. No. 1,019,881; Mar. 12; Sp. p. 1868; Gaz. vol. 176; p. 326.
Drinking-fountain. A. Whittier. No. 1,022,572; Apr. 9; Sp. p. 1726; Gaz. vol. 177; p. 304.
Drinking-fountain. T. J. Price. No. 1,023,874; Apr. 23; Sp. p. 4495; Gaz. vol. 177; p. 805.
Drinking-fountain. J. E. Johnsen. No. 1,032,142; July 9; Gaz. vol. 180; p. 487.
Drinking-fountain. G. G. Cooke. No. 1,032,589; July 16; Gaz. vol. 180; p. 684.
Drinking-fountain. D. X. Coakley. No. 1,034,384; July 30; Gaz. vol. 180; p. 1360.
Drinking-fountain. A. Whittier. No. 1,036,046; Aug. 20; Gaz. vol. 181; p. 623.
Drinking-fountain. T. E. Lindsay. No. 1,038,399; Sept. 10; Gaz. vol. 182; p. 443.
Drinking-fountain. P. J. Madden. No. 1,038,916; Sept. 17; Gaz. vol. 182; p. 659.
Drinking-fountain. W. Mueller. No. 1,038,937; Sept. 17; Gaz. vol. 182; p. 666.
Drinking-fountain. A. P. Olson. No. 1,045,171; Nov. 26; Gaz. vol. 184; p. 829.
Drinking-fountain. J. Hall, Jr. No. 1,047,210; Dec. 17; Gaz. vol. 185; p. 559.
Drinking-fountain. J. C. Davis. No. 1,047,762; Dec. 17; Gaz. vol. 185; p. 756.
Drinking-fountain and faucet, Combined. F. D. Jacobs. No. 1,036,852; Aug. 27; Gaz. vol. 181; p. 934.
Drinking-fountain, Bubbling. S. C. Keith, Jr. No. 1,019,162; Mar. 5; Sp. p. 346; Gaz. vol. 176; p. 54.
Drinking-fountain for fowls. H. C. Lamdin. No. 1,014,490; Jan. 9; Sp. p. 3081; Gaz. vol. 174; p. 512.
Drinking-fountain jet-head. H. W. Thorndike. No. 1,022,162; Apr. 2; Sp. p. 869; Gaz. vol. 177; p. 138.
Drinking-fountain, Poultry. W. Bowie. No. 1,023,240; Apr. 16; Sp. p. 3201; Gaz. vol. 177; p. 573.
Drinking-fountain, Public. G. B. Stack. No. 1,016,652; Feb. 6; Sp. p. 960; Gaz. vol. 175; p. 145.
Drinking-fountain, Sanitary. P. Mueller and A. C. Schuermann. No. 1,014,324; Jan. 9; Sp. p. 2738; Gaz. vol. 174; p. 456.
Drinking-fountain, Sanitary. J. L. Millen. No. 1,020,303; Mar. 12; Sp. p. 2748; Gaz. vol. 176; p. 466.
Drinking-fountain, Sanitary. P. Mueller and A. C. Schuermann. No. 1,020,923; Mar. 19; Sp. p. 4063; Gaz. vol. 176; p. 710.
Drinking-fountain, Sanitary. L. A. Cooper. No. 1,031,051; July 2; Gaz. vol. 180; p. 72.
Drinking-fountain, Sanitary. L. A. Cooper. No. 1,033,063; July 16; Gaz. vol. 180; p. 845.
Drinking-fountain, Sanitary. J. H. Brady. No. 1,034,411; Aug. 6; Gaz. vol. 181; p. 4.
Drinking-fountain, Sanitary. J. H. Brady. No. 1,034,412; Aug. 6; Gaz. vol. 181; p. 5.
Drinking-fountain, Sanitary. A. E. Summers. No. 1,038,021; Sept. 10; Gaz. vol. 182; p. 317.
Drinking-fountain, Sanitary. J. H. Ashton. No. 1,038,817; Sept. 17; Gaz. vol. 182; p. 625.
Drinking-fountain, Sanitary. C. D. Avery. No. 1,039,880; Oct. 1; Gaz. vol. 183; p. 70.
Drinking-fountain, Sanitary. T. F. Dunphy. No. 1,044,033; Nov. 12; Gaz. vol. 184; p. 378.
Drinking-glasses, Sanitary attachment for. L. McNair. No. 1,034,636; Aug. 6; Gaz. vol. 181; p. 77.
Drinking-receptacle, Collapsible. E. Von Vargyas and J. W. Deidrick. No. 1,025,660; May 7; Sp. p. 1235; Gaz. vol. 178; p. 191.
Drinking-trough. C. H. Chester. No. 1,019,133; Mar. 5; Sp. p. 281; Gaz. vol. 176; p. 44.
Drinking vessel. H. L. Shafer and C. G. Smith. No. 1,034,313; July 30; Gaz. vol. 180; p. 1334.
Drinking vessel, Collapsible. E. R. Douglas. No. 1,040,652; Oct. 8; Gaz. vol. 183; p. 367.
Drip-pan. A. A. Otto. No. 1,017,455; Feb. 13; Sp. p. 2724; Gaz. vol. 175; p. 458.
Drip-pan. C. F. Bishop. No. 1,034,340; July 30; Gaz. vol. 180; p. 1344.
Drip-pan alarm attachment. J. T. Waniger. No. 1,041,385; Oct. 15; Gaz. vol. 183; p. 644.
Drive, Four-wheel. E. P. Bergman and H. Clarke. No. 1,034,956; Aug. 6; Gaz. vol. 181; p. 186.
Drive mechanism. J. H. App. No. 1,029,736; June 18; Sp. p. 3631; Gaz. vol. 179; p. 640.

Alphabetical list of inventions—Continued.

Drive mechanism, Frictional. C. B. King and J. W. Fellmeth. No. 1,043,111; Nov. 5; Gaz. vol. 184; p. 22.
Driven wrench. J. A. McGreevey. No. 1,028,123; June 4; Sp. p. 62; Gaz. vol. 179; p. 14.
Driving a part at variable speed, Mechanism for. G. Spiess. No. 1,046,504; Dec. 10; Gaz. vol. 185; p. 285.
Driving at uniform speeds, Mechanism for. D. Higham. No. 1,031,339; July 2; Gaz. vol. 180; p. 173.
Driving connection. E. A. Wolfe and H. W. Gilbert. No. 1,037,393; Sept. 3; Gaz. vol. 182; p. 72.
Driving device, Frictional. W. J. Hardy. No. 1,039,125; Sept. 24; Gaz. vol. 182; p. 743.
Driving-gear, Electrically-operated. J. A. Essberger. No. 1,022,666; Apr. 9; Sp. p. 1929; Gaz. vol. 177; p. 337.
Driving-gear mechanism. J. M. Sailer. No. 1,044,579; Nov. 19; Gaz. vol. 184; p. 595.
Driving mechanism. J. J. Hesse. No. 1,016,010; Jan. 30; Sp. p. 6414; Gaz. vol. 174; p. 1116.
Driving mechanism. N. Helwig. No. 1,016,941; Feb. 13; Sp. p. 1578; Gaz. vol. 175; p. 279.
Driving mechanism. W. O. Foss. No. 1,016,987; Feb. 13; Sp. p. 1690; Gaz. vol. 175; p. 295.
Driving mechanism. G. W. Slater. No. 1,017,923; Feb. 20; Sp. p. 3770; Gaz. vol. 175; p. 655.
Driving mechanism. A. R. Murray. No. 1,028,771; June 4; Sp. p. 1510; Gaz. vol. 179; p. 235.
Driving mechanism. W. H. George. No. 1,030,993; July 2; Gaz. vol. 180; p. 50.
Driving mechanism. P. J. Mueller. No. 1,032,696; July 16; Gaz. vol. 180; p. 723.
Driving mechanism. E. A. and E. L. Eustice. No. 1,033,567; July 23; Gaz. vol. 180; p. 1052.
Driving mechanism. W. O. Foss. No. 1,042,101; Oct. 22; Gaz. vol. 183; p. 922.
Driving mechanism. E. D. Brothers. No. 1,044,129; Nov. 12; Gaz. vol. 184; p. 410.
Driving mechanism. R. B. Disbrow. No. 1,044,759; Nov. 19; Gaz. vol. 184; p. 660.
Driving mechanism and differential, Combination. P. G. Ledeboer. No. 1,030,097; June 18; Sp. p. 4426; Gaz. vol. 179; p. 764.
Driving mechanism and support therefor. A. W. Altorfer. No. 1,047,118; Dec. 10; Gaz. vol. 185; p. 495.
Driving mechanism and support therefor. A. W. Altorfer. No. 1,047,119; Dec. 10; Gaz. vol. 185; p. 495.
Driving mechanism, Electric control mechanism for. C. A. Dresser. No. 1,046,057; Dec. 3; Gaz. vol. 185; p. 88.
Driving mechanism for machines and vehicles. F. Kleinvogel. No. 1,036,264; Aug. 20; Gaz. vol. 181; p. 703.
Driving mechanism for motor-vehicles, Friction. J. M. Gilstrap. No. 1,048,406; Dec. 24; Gaz. vol. 185; p. 999.
Driving mechanism, Friction. A. E. Imler. No. 1,014,152; Jan. 9; Sp. p. 2362; Gaz. vol. 174; p. 394.
Driving mechanism, Friction. M. L. Jenkins. No. 1,048,315; Dec. 24; Gaz. vol. 185; p. 969.
Driving mechanism, Reversible. R. H. Johnson. No. 1,037,922; Sept. 10; Gaz. vol. 182; p. 284.
Driving mechanism, Reversing. F. D. Thomson. No. 1,024,298; Apr. 23; Sp. p. 5438; Gaz. vol. 177; p. 953.
Driving mechanism, Reversing frictional. F. W. Daeuble. No. 1,013,989; Jan. 9; Sp. p. 2013; Gaz. vol. 174; p. 340.
Driving mechanism, Variable-speed. A. Cotoli. No. 1,033,991; July 30; Gaz. vol. 180; p. 1222.
Driving system, Polyphase-motor cascade. C. de Kando. No. 1,046,601; Dec. 10; Gaz. vol. 185; p. 318.
Driving systems, Means for controlling electrically-operated. J. C. Macfarlane, H. Burge, and A. Williams. No. 1,019,676; Mar. 5; Sp. p. 1465; Gaz. vol. 176; p. 226.
Driving systems, Means for regulating electrically-operated. J. C. Macfarlane, H. Burge, and A. Williams. No. 1,019,677; Mar. 5; Sp. p. 1468; Gaz. vol. 176; p. 227.
Drop-light support. C. W. Morningstar. No. 1,047,433; Dec. 17; Gaz. vol. 185; p. 638.
Dropper: *See* Grain-dropper; Medicine-dropper; Oil-dropper; Pea-dropper.
Druggist's device for dividing powders. J. D. Knowlton. No. 1,037,023; Aug. 27; Gaz. vol. 181; p. 991.
Drum. G. H. Logan. No. 1,018,767; Feb. 27; Sp. p. 5649; Gaz. vol. 175; p. 976.
Drum. C. B. Wanamaker. No. 1,031,032; July 2; Gaz. vol. 180; p. 64.
Drum and cymbal beater. G. H. Risley. No. 1,033,270; July 23; Gaz. vol. 180; p. 955.
Drum and cymbal beater, Combined. F. L. Fraser. No. 1,042,904; Oct. 29; Gaz. vol. 183; p. 1225.
Drum and cymbal beater, Combined. W. H. Hughes. No. 1,042,919; Oct. 29; Gaz. vol. 183; p. 1230.
Drum and cymbal beater, Foot-operated bass-. J. A. Meyer. No. 1,016,510; Feb. 6; Sp. p. 626; Gaz. vol. 175; p. 96.
Drum attachment. F. J. Strahl. No. 1,040,809; Oct. 8; Gaz. vol. 183; p. 418.
Drum-beater. C. B. Wanamaker. No. 1,020,378; Mar. 12; Sp. p. 2889; Gaz. vol. 176; p. 489.
Drum, Heating-. W. A. Brewster. No. 1,025,736; May 7; Sp. p. 1390; Gaz. vol. 178; p. 217.
Drum, Heating-. C. F. Peterson. No. 1,037,306; Sept. 3; Gaz. vol. 182; p. 43.
Drum-player. F. O. Anderson. No. 1,045,357; Nov. 26; Gaz. vol. 184; p. 894.
Drum-rod support. T. Wilson. No. 1,014,109; Jan. 9; Sp. p. 2283; Gaz. vol. 174; p. 380.
Drum, Snare-. I. H. Sapp. No. 1,032,508; July 16; Gaz. vol. 180; p. 657.
Drum snare strainer and muffer. J. E. Lynehan. No. 1,025,146; May 7; Sp. p. 74; Gaz. vol. 178; p. 14.
Drum, Stovepipe-. F. J. Thody. No. 1,032,964; July 16; Gaz. vol. 180; p. 810.
Drum, Striking-bag. P. S. Medart. No. 1,046,397; Dec. 3; Gaz. vol. 185; p. 209.
Drum-support. A. Maphet. No. 1,022,149; Apr. 2; Sp. p. 843; Gaz. vol. 177; p. 134.
Drum, Tanning-. C. Haas. No. 1,036,223; Aug. 20; Gaz. vol. 181; p. 689.
Drums, Building cooling or warming. H. Heenan. No. 1,018,242; Feb. 20; Sp. p. 4456; Gaz. vol. 175; p. 765.
Drums, Steam-actuating device for friction-driven. T. W. Hine. No. 1,044,049; Nov. 12; Gaz. vol. 184; p. 383.
Drummer's pedal. J. D. Tobias. No. 1,031,598; July 2; Gaz. vol. 180; p. 260.
Dual-tire wheel for autotrucks. P. Jones. No. 1,032,757; July 16; Gaz. vol. 180; p. 743.
Duck-blind, Collapsible. H. C. January. No. 1,031,851; July 9; Gaz. vol. 180; p. 391.
Dumb and bar bell and ring-weight. A. Calvert. No. 1,044,018; Nov. 12; Gaz. vol. 184; p. 373.
Dumb-bell and the like. C. C. Balston. No. 1,019,584; Mar. 5; Sp. p. 1295; Gaz. vol. 176; p. 194.
Dumb-bell, Grip. J. C. Korth. No. 1,026,215; May 14; Sp. p. 2492; Gaz. vol. 178; p. 417.
Dumb-waiter control, Electric. M. Spahn and I. Concoff. No. 1,033,286; July 23; Gaz. vol. 180; p. 960.
Dump-box. R. Matthies and J. A. Shepherd. No. 1,022,562; Apr. 9; Sp. p. 1707; Gaz. vol. 177; p. 301.
Dump-box. W. A. Underhill. No. 1,044,949; Nov. 19; Gaz. vol. 184; p. 723.
Dump-car. T. B. Blackburn. No. 1,032,872; July 16; Gaz. vol. 180; p. 781.
Dumping apparatus. W. A. Butler. No. 1,023,719; Apr. 16; Sp. p. 4138; Gaz. vol. 177; p. 726.
Dumping-body, Unit-compartment. W. B. Longest. No. 1,013,789; Jan. 2; Sp. p. 1530; Gaz. vol. 174; p. 243.
Dumping-fork, Adjustable. G. Heedwell and W. F. McNew. No. 1,048,964; Dec. 31; Gaz. vol. 185; p. 1230.
Duplex-piston engine. G. K. Gjerde. No. 1,049,076; Dec. 31; Gaz. vol. 185; p. 1269.
Duplicating apparatus, Stencil-. A. B. Dick. No. 1,024,186; Apr. 23; Sp. p. 5212; Gaz. vol. 177; p. 913.
Duplicating-machine. C. E. Adamson. No. 1,015,256; Jan. 16; Sp. p. 4763; Gaz. vol. 174; p. 803.
Duplicating-machine. A. H. Bates. No. 1,045,498; Nov. 26; Gaz. vol. 184; p. 944.
Duplicating-machine. H. G. Liebenthal. No. 1,048,551; Dec. 31; Gaz. vol. 185; p. 1088.
Duplicating-machine. H. C. Gammeter. No. 1,049,323; Dec. 31; Gaz. vol. 185; p. 1354.
Duplicating-machines, Motor-drive for. H. C. Gammeter. No. 1,048,305; Dec. 24; Gaz. vol. 185; p. 965.
Dust and grain separator. F. H. Day. No. 1,030,875; July 2; Gaz. vol. 180; p. 9.
Dust and other fine particles, Apparatus for collecting. W. W. Green. No. 1,035,822; Aug. 13; Gaz. vol. 181; p. 510.
Dust and other materials, Means for recovering. C. E. Goodrich. No. 1,041,617; Oct. 15; Gaz. vol. 183; p. 718.
Dust-bins, Tilting apparatus for emptying portable. A. Wodarra. No. 1,021,649; Mar. 26; Sp. p. 5606; Gaz. vol. 176; p. 1008.
Dust-catcher. J. A. Dyblie. No. 1,045,532; Nov. 26; Gaz. vol. 184; p. 958.
Dust-collecting system. H. L. Day. No. 1,029,531; June 11; Sp. p. 3160; Gaz. vol. 179; p. 530.
Dust-collecting system. W. E. Allington. No. 1,048,477; Dec. 31; Gaz. vol. 185; p. 1061.
Dust-collector. G. A. Kluge. No. 1,023,082; Apr. 9; Sp. p. 2826; Gaz. vol. 177; p. 481.
Dust-collector. O. M. Morse. No. 1,029,214; June 11; Sp. p. 2479; Gaz. vol. 179; p. 422.
Dust-collector. C. R. Thurman. No. 1,043,551; Nov. 5; Gaz. vol. 184; p. 181.
Dust collector or separator. O. M. Morse. No. 1,031,862; July 9; Gaz. vol. 180; p. 395.
Dust-collectors, Adjustable valve for. P. C. Miller. No. 1,023,521; Apr. 16; Sp. p. 3760; Gaz. vol. 177; p. 665.
Dust-collectors, Vacuum-creating mechanism for. J. MacLean. No. 1,013,606; Jan. 2; Sp. p. 1110; Gaz. vol. 174; p. 179.
Dust extractor and separator. I. H. Spencer. No. 1,043,264; Nov. 5; Gaz. vol. 184; p. 77.
Dust-flue hood, ash-grate, and coal-economizer. C. Gorgas. No. 1,047,044; Dec. 10; Gaz. vol. 185; p. 469.
Dust-guard. G. F. Godley. No. 1,040,308; Oct. 8; Gaz. vol. 183; p. 244.
Dust-guard for wheels. R. Stock. No. 1,048,369; Dec. 24; Gaz. vol. 185; p. 987.

Dust-hood. J. N. Busell. No. 1,034,073; July 30; Gaz. vol. 180; p. 1252.
Dust-receptacle. T. E. Mitchell. No. 1,038,413; Sept. 10; Gaz. vol. 182; p. 449.
Dust-separator. A. Wolf. No. 1,025,730; May 7; Sp. p. 1380; Gaz. vol. 178; p. 215.
Dust-separator. L. Anderson. No. 1,039,008; Sept. 17; Gaz. vol. 182; p. 689.
Dust-separator for vacuum-cleaners. R. R. Smith. No. 1,038,223; Sept. 10; Gaz. vol. 182; p. 382.
Dust-settler. M. J. Baker. No. 1,048,473; Dec. 24; Gaz. vol. 185; p. 1023.
Dust-sucker, Vacuum. G. Lindenberg. No. 1,024,267; Apr. 23; Sp. p. 5390; Gaz. vol. 177; p. 944.
Duster. F. A. Howard and J. W. Smith. No. 1,033,175; July 23; Gaz. vol. 180; p. 922.
Duster. R. C. Hoag. No. 1,047,222; Dec. 17; Gaz. vol. 185; p. 563.
Duster, Feather. A. C. Isham. No. 1,033,898; July 30; Gaz. vol. 180; p. 1190.
Dye. W. Berchelmann. No. 1,014,204; Jan. 9; Sp. p. 2460; Gaz. vol. 174; p. 414.
Dye. M. Weiler. No. 1,023,977; Apr. 23; Sp. p. 4734; Gaz. vol. 177; p. 840.
Dye and making same, Anthracene. O. Bally. No. 1,016,604; Feb. 6; Sp. p. 862; Gaz. vol. 175; p. 129.
Dye and making same, Anthracene. O. Bally. No. 1,037,410; Sept. 3; Gaz. vol. 182; p. 78.
Dye and making same, Vat. A. L. Laska. No. 1,016,638; Feb. 6; Sp. p. 940; Gaz. vol. 175; p. 141.
Dye and making the same, Disazo. P. Volkmann. No. 1,020,670; Mar. 19; Sp. p. 3545; Gaz. vol. 176; p. 624.
Dye, Anthracene. A. Jacobi. No. 1,038,589; Sept. 17; Gaz. vol. 182; p. 544.
Dye, Azo. A. Zart. No. 1,015,375; Jan. 23; Sp. p. 5051; Gaz. vol. 174; p. 871.
Dye, Azo. A. Blank. No. 1,023,120; Apr. 16; Sp. p. 2931; Gaz. vol. 177; p. 532.
Dye, Azo. H. Schweitzer and A. Zart. No. 1,024,031; Apr. 23; Sp. p. 4844; Gaz. vol. 177; p. 859.
Dye, Azo. H. Jordan and W. Neelmeier. No. 1,024,080; Apr. 23; Sp. p. 4947; Gaz. vol. 177; p. 876.
Dye, Azo. H. Jordan and W. Neelmeier. No. 1,024,081; Apr. 23; Sp. p. 4948; Gaz. vol. 177; p. 876.
Dye, Azo. M. Kahn and A. Ossenbeck. No. 1,025,983; May 14; Sp. p. 1945; Gaz. vol. 178; p. 336.
Dye, Azo. M. Kahn and A. Ossenbeck. No. 1,027,132; May 21; Sp. p. 4562; Gaz. vol. 178; p. 766.
Dye, Azo. F. Rünkel. No. 1,028,493; June 4; Sp. p. 949; Gaz. vol. 179; p. 143.
Dye, Azo. W. Herzberg and O. Scharfenberg. No. 1,038,884; Sept. 17; Gaz. vol. 182; p. 647.
Dye-bath and dyeing. M. Kahn and A. Ossenbeck. No. 1,025,273; May 7; Sp. p. 357; Gaz. vol. 178; p. 58.
Dye, Blue cotton-. H. Jordan and W. Neelmeier. No. 1,032,412; July 16; Gaz. vol. 180; p. 625.
Dye, Blue wool-. C. Heidenreich. No. 1,025,267; May 7; Sp. p. 348; Gaz. vol. 178; p. 57.
Dye, Brown azo. M. Kahn and A. Ossenbeck. No. 1,025,984; May 14; Sp. p. 1946; Gaz. vol. 178; p. 336.
Dye, Brown tetrazo. O. Günther. No. 1,019,321; Mar. 5; Sp. p. 714; Gaz. vol. 176; p. 111.
Dye, Green triphenylmethane. A. Hausdörfer and C. Heidenreich. No. 1,021,364; Mar. 26; Sp. p. 4995; Gaz. vol. 176; p. 912.
Dye, Greenish-blue wool-. W. Berchelmann. No. 1,045,805; Dec. 3; Gaz. vol. 185; p. 3.
Dye, Manufacture of beta-naphthol-ortho-oxy-azo. K. Elbel. No. 1,023,199; Apr. 16; Sp. p. 3130; Gaz. vol. 177; p. 560.
Dye, Manufacture of pyrazolone-azo. K. Elbel. No. 1,026,257; May 14; Sp. p. 2576; Gaz. vol. 178; p. 431.
Dye, Monoazo. A. E. Gessler. No. 1,033,310; July 23; Gaz. vol. 180; p. 969.
Dye, New. W. Bergdolt. No. 1,014,633; Jan. 16; Sp. p. 3445; Gaz. vol. 174; p. 591.
Dye of the anthracene series, Manufacture of a sulfureted vat. B. Mayer and L. Weil. No. 1,044,797; Nov. 19; Gaz. vol. 184; p. 673.
Dye of the triphenylmethane series. A. Hausdörfer and C. Heidenreich. No. 1,026,089; May 14; Sp. p. 2215; Gaz. vol. 178; p. 374.
Dye or stain. L. N. Sahm. No. 1,016,295; Feb. 6; Sp. p. 131; Gaz. vol. 175; p. 20.
Dye, Orange-red vat. A. Lüttringhaus and H. von Diesbach. No. 1,018,836; Feb. 27; Sp. p. 5788; Gaz. vol. 175; p. 1000.
Dye, Orange-yellow vat. A. Lüttringhaus and H. von Diesbach. No. 1,044,673; Nov. 19; Gaz. vol. 184; p. 628.
Dye, Red azo. A. Ossenbeck and A. Zart. No. 1,027,148; May 21; Sp. p. 4591; Gaz. vol. 178; p. 771.
Dye, Red disazo. M. Cantor. No. 1,042,198; Oct. 22; Gaz. vol. 183; p. 953.
Dye, Red-violet triphenylmethane. M. Weller. No. 1,034,173; July 30; Gaz. vol. 180; p. 1286.
Dye, Triphenylmethane. A. Hausdörfer and C. Heidenreich. No. 1,021,366; Mar. 26; Sp. p. 4997; Gaz. vol. 176; p. 912.
Dye, Triphenylmethane. M. Weiler. No. 1,044,836; Nov. 19; Gaz. vol. 184; p. 685.
Dye, Vat. H. Friedmann. No. 1,022,781; Apr. 9; Sp. p. 2212; Gaz. vol. 177; p. 378.
Dye, Vat. H. Friedmann. No. 1,023,248; Apr. 16; Sp. p. 3220; Gaz. vol. 177; p. 576.
Dye, Vat. P. Thomaschewski. No. 1,028,637; June 4; Sp. p. 1240; Gaz. vol. 179; p. 190.
Dye, Vat. H. Friedmann. No. 1,034,895; Aug. 6; Gaz. vol. 181; p. 166.
Dye, Vat. P. Thomaschewski. No. 1,044,603; Nov. 19; Gaz. vol. 184; p. 604.
Dye, Violet cotton-. A. L. Laska. No. 1,049,109; Dec. 31; Gaz. vol. 185; p. 1282.
Dye, Yellow-green triphenylmethane. A. Hausdörfer and C. Heidenreich. No. 1,021,365; Mar. 26; Sp. p. 4996; Gaz. vol. 176; p. 912.
Dye, Yellow vat. A. Lüttringhaus and H. von Diesbach. No. 1,018,837; Feb. 27; Sp. p. 5789; Gaz. vol. 175; p. 1000.
Dye, Yellow vat. H. Friedmann. No. 1,034,896; Aug. 6; Gaz. vol. 181; p. 166.
Dye, Yellow vat. A. Lüttringhaus and E. Schwarz. No. 1,044,674; Nov. 19; Gaz. vol. 184; p. 629.
Dye, Yellow vat. A. Lüttringhaus and E. Schwarz. No. 1,044,675; Nov. 19; Gaz. vol. 184; p. 629.
Dyes and making same, Anthracene. M. H. Isler. No. 1,026,588; May 14; Sp. p. 3271; Gaz. vol. 178; p. 541.
Dyes and making same, Anthracene. M. H. Isler. No. 1,047,812; Dec. 17; Gaz. vol. 185; p. 772.
Dyes and making same, Halogenated vat. O. Bally. No. 1,026,621; May 14; Sp. p. 3354; Gaz. vol. 178; p. 553.
Dyes and making same, Yellowish-green pigment. A. Stock. No. 1,043,271; Nov. 5; Gaz. vol. 184; p. 80.
Dyes and making the same, Azo. E. Fussenegger. No. 1,034,898; Aug. 6; Gaz. vol. 181; p. 167.
Dyes and making the same, Vat. A. Lüttringhaus and W. Braren. No. 1,035,023; Aug. 6; Gaz. vol. 181; p. 207.
Dyes and making them, Anthraquinone vat. M. Isler. No. 1,032,215; July 9; Gaz. vol. 180; p. 512.
Dyes and making them, Anthraquinone vat. M. Isler. No. 1,032,216; July 9; Gaz. vol. 180; p. 513.
Dyes and making them, Disazo. A. L. Laska, A. Zitscher, and F. Kunert. No. 1,042,356; Oct. 22; Gaz. vol. 183; p. 1005.
Dyes, Azo. H. Schweitzer and A. Zart. No. 1,038,210; Sept. 10; Gaz. vol. 182; p. 378.
Dyes for lakes, Azo. A. Winther, A. L. Laska, and A. Zitscher. No. 1,034,853; Aug. 6; Gaz. vol. 181; p. 153.
Dyes of the anthracene series, Making vat. F. Singer. No. 1,044,932; Nov. 19; Gaz. vol. 184; p. 718.
Dyes, Polyazo. H. Schweitzer and A. Zart. No. 1,038,209; Sept. 10; Gaz. vol. 182; p. 377.
Dyeing. M. Schwarz. No. 1,019,092; Mar. 5; Sp. p. 188; Gaz. vol. 176; p. 30.
Dyeing and the product thereof. G. Engi and J. Fröhlich. No. 1,026,574; May 14; Sp. p. 3245; Gaz. vol. 178; p. 537.
Dyeing apparatus. H. Windrath and H. Eicken. No. 1,021,811; Apr. 2; Sp. p. 113; Gaz. vol. 177; p. 23.
Dyeing apparatus. D. M. Hey. No. 1,027,729; May 28; Sp. p. 5758; Gaz. vol. 178; p. 1003.
Dyeing apparatus. L. P. Hart. No. 1,033,584; July 23; Gaz. vol. 180; p. 1058.
Dyeing, bleaching, &c., machine. A. Schiffers. No. 1,020,452; Mar. 19; Sp. p. 3056; Gaz. vol. 176; p. 553.
Dyeing fibrous materials. W. R. Smith. No. 1,025,323; May 7; Sp. p. 486; Gaz. vol. 178; p. 75.
Dyeing-machine. W. S. Duell. No. 1,040,654; Oct. 8; Gaz. vol. 183; p. 367.
Dyeing-machine, Pressure. F. J. Muir. No. 1,034,487; Aug. 6; Gaz. vol. 181; p. 28.
Dyeing machine, Warp-. W. F. Haskell. No. 1,029,866; June 18; Sp. p. 3930; Gaz. vol. 179; p. 684.
Dyeing of cotton or linen cloth with vat colors. A. Kertesz. No. 1,043,016; Oct. 29; Gaz. vol. 183; p. 1263.
Dyeing-tub. R. B. Mills. No. 1,014,243; Jan. 9; Sp. p. 2574; Gaz. vol. 174; p. 429.
Dyeing-vat-closing device. C. P. Delahunty. No. 1,049,322; Dec. 31; Gaz. vol. 185; p. 1354.
Dyeing vegetable fiber. G. C. Dörr. No. 1,047,923; Dec. 24; Gaz. vol. 185; p. 839.
Dyeing vegetable fibers with halogenated indigo and indigoid dyestuffs. A. Kertesz. No. 1,029,006; June 11; Sp. p. 2164; Gaz. vol. 179; p. 372.
Dyestuff. C. O. Müller and A. Luther. No. 1,041,146; Oct. 15; Gaz. vol. 183; p. 564.
Dyestuff and making same, Alizarin-red vat. M. Hessenland. No. 1,023,847; Apr. 23; Sp. p. 4438; Gaz. vol. 177; p. 797.
Dyestuff and making same, Black disazo. F. Scholl. No. 1,028,140; June 4; Sp. p. 133; Gaz. vol. 179; p. 20.
Dyestuff and making same, Blue vat. R. Welde and R. Homolka. No. 1,025,174; May 7; Sp. p. 145; Gaz. vol. 178; p. 25.
Dyestuff and making same, Brown azo. F. Scholl and W. Tropp. No. 1,043,873; Nov. 12; Gaz. vol. 184; p. 321.
Dyestuff and making same, Brown vat. R. Maag. No. 1,018,433; Feb. 27; Sp. p. 4870; Gaz. vol. 175; p. 862.
Dyestuff and making same, Monoazo. H. Wagner and J. Erber. No. 1,016,307; Feb. 6; Sp. p. 157; Gaz. vol. 175; p. 24.

Alphabetical list of inventions—Continued.

Dyestuff and making same, Salmon-colored vat. G. Kränzlein. No. 1,025,195; May 7; Sp. p. 187; Gaz. vol. 178; p. 32.
Dyestuff and making same, Vat. R. Maag. No. 1,025,147; May 7; Sp. p. 76; Gaz. vol. 178; p. 14.
Dyestuff, Azo. K. Schirmacher. No. 1,045,196; Nov. 26; Gaz. vol. 184; p. 837.
Dyestuff of the anthracene series and making same, Vat. A. L. Laska, A. Zitscher, and E. J. Rath. No. 1,042,931; Oct. 29; Gaz. vol. 183; p. 1234.
Dyestuff of the triphenylmethane series and making same. A. Stock and F. Heim. No. 1,042,498; Oct. 29; Gaz. vol. 183; p. 1084.
Dyestuff, Vat. P. Thomaschewski. No. 1,044,602; Nov. 19; Gaz. vol. 184; p. 604.
Dyestuffs and making same. H. Wagner and J. Erber. No. 1,041,919; Oct. 22; Gaz. vol. 183; p. 862.
Dyestuffs and making same, Black disazo. F. Scholl. No. 1,029,639; June 18; Sp. p. 3396; Gaz. vol. 179; p. 605.
Dyestuffs and making same, Black monoazo. F. Scholl. No. 1,032,433; July 16; Gaz. vol. 180; p. 631.
Dyestuffs and making same, Cotton-. R. Gast. No. 1,020,756; Mar. 19; Sp. p. 3732; Gaz. vol. 176; p. 655.
Dyestuffs and making same, Reddish-blue vat. A. Schmidt and K. Thiess. No. 1,028,911; June 11; Sp. p. 1831; Gaz. vol. 179; p. 318.
Dyestuffs and making same, Vat. R. Maag. No. 1,015,329; Jan. 23; Sp. p. 4959; Gaz. vol. 174; p. 856.
Dyestuffs, Dark-blue monoazo. M. Böniger. No. 1,014,039; Jan. 9; Sp. p. 2134; Gaz. vol. 174; p. 356.
Dyestuffs, Manufacture and production of fast ortho-oxy-azo. K. Elbel. No. 1,028,006; May 28; Sp. p. 6398; Gaz. vol. 178; p. 1098.
Dyestuffs, Manufacture of azo. H. Levinstein and M. Wyler. No. 1,024,794; Apr. 30; Sp. p. 6590; Gaz. vol. 177; p. 1159.
Dyestuffs, Manufacture of brominated blue indigo. A. Schmidt, H. Rössner, and H. Balhorn. No. 1,043,468; Nov. 5; Gaz. vol. 184; p. 152.
Dyestuffs of the anthraquinone series and making same, Manufacture of azo. A. Schmidt and G. Kränzlein. No. 1,028,139; June 4; Sp. p. 132; Gaz. vol. 179; p. 20.
Dyestuffs of the anthraquinone series and making same, Vat. M. Hessenland. No. 1,047,940; Dec. 24; Gaz. vol. 185; p. 844.
Dyestuffs, Red monoazo. M. Böniger. No. 1,014,114; Jan. 9; Sp. p. 2293; Gaz. vol. 174; p. 382.
Dyestuffs, Violet-blue vat. E. Hoffa. No. 1,025,138; May 7; Sp. p. 59; Gaz. vol. 178; p. 11.
Dynamo, Alternating-current. M. C. A. Latour. No. 1,016,021; Jan. 30; Sp. p. 6436; Gaz. vol. 174; p. 1120.
Dynamo-machines and electric circuits, Regulator for. R. M. Newbold. No. 1,034,924; Aug. 6; Gaz. vol. 181; p. 174.
Dynamo-regulator. W. H. Chapman. No. 1,027,101; May 21; Sp. p. 4489; Gaz. vol. 178; p. 757.
Dynamo suspension, Truck construction for. P. Kennedy. No. 1,049,103; Dec. 31; Gaz. vol. 185; p. 1280.
Dynamo suspension, Truck construction for. P. Kennedy. No. 1,049,104; Dec. 31; Gaz. vol. 185; p. 1280.
Dynamos, Driving mechanism for axle-driven. W. L. Bliss. No. 1,013,925; Jan. 9; Sp. p. 1874; Gaz. vol. 174; p. 319.
Dynamos, Interrupter for ignition-. C. T. Mason. No. 1,017,304; Feb. 13; Sp. p. 2384; Gaz. vol. 175; p. 406.
Dynamometer. H. N. Leask. No. 1,014,494; Jan. 9; Sp. p. 3086; Gaz. vol. 174; p. 513.
Dynamometer. F. Harrison. No. 1,035,700; Aug. 13; Gaz. vol. 181; p. 469.
Dynamometer. W. G. Walker. No. 1,047,347; Dec. 17; Gaz. vol. 185; p. 610.
Dynamometer for measuring forces. G. Wazau. No. 1,027,300; May 21; Sp. p. 4893; Gaz. vol. 178; p. 823.
Ear-drum, Artificial. J. B. Campbell. No. 1,045,812; Dec. 3; Gaz. vol. 185; p. 6.
Ear-drum, Artificial. L. P. Valiquet. No. 1,045,917; Dec. 3; Gaz. vol. 185; p. 42.
Ear-protector. J. A. R. Elliott. No. 1,016,877; Feb. 6; Sp. p. 1419; Gaz. vol. 175; p. 220.
Ear-ring. T. E. Knoll. No. 1,034,254; July 30; Gaz. vol. 180; p. 1315.
Earpiece-disinfector. L. Block. No. 1,027,174; May 21; Sp. p. 4637; Gaz. vol. 178; p. 779.
Earth-chipping machine. J. R. McCoy. No. 1,025,475; May 7; Sp. p. 823; Gaz. vol. 178; p. 128.
Earth pushing and distributing machine. F. O. Smith. No. 1,032,031; July 9; Gaz. vol. 180; p. 450.
Easel. G. B. Streit. No. 1,020,583; Mar. 19; Sp. p. 3355; Gaz. vol. 176; p. 596.
Easel. O. Anderson. No. 1,023,117; Apr. 16; Sp. p. 2927; Gaz. vol. 177; p. 531.
Easel. J. J. Hannerty. No. 1,038,126; Sept. 10; Gaz. vol. 182; p. 350.
Easel. M. Herbst. No. 1,046,786; Dec. 10; Gaz. vol. 185; p. 385.
Eaves-trough. P. F. Flagge. No. 1,020,087; Mar. 12; Sp. p. 2301; Gaz. vol. 176; p. 394.
Eaves-trough. A. N. Faupel. No. 1,026,085; May 14; Sp. p. 2209; Gaz. vol. 178; p. 372.
Eaves-trough. C. and C. S. Hines. No. 1,044,886; Nov. 19; Gaz. vol. 184; p. 703.
Eaves-trough fastener. H. Callahan. No. 1,023,456; Apr. 16; Sp. p. 3628; Gaz. vol. 177; p. 643.
Eaves-trough hanger. W. E. Patchin. No. 1,020,951; Mar. 19; Sp. p. 4128; Gaz. vol. 176; p. 720.
Eaves-trough hanger. E. K. Day. No. 1,041,750; Oct. 22; Gaz. vol. 183; p. 801.
Ebonites resisting the action of chlorin, Manufacture of. M. Wildermann. No. 1,022,014; Apr. 2; Sp. p. 564; Gaz. vol. 177; p. 89.
Eccentric. W. D. Nash. No. 1,014,896; Jan. 16; Sp. p. 4030; Gaz. vol. 174; p. 682.
Eccentric, Antifriction-. J. E. Vilkie. No. 1,018,142; Feb. 20; Sp. p. 4253; Gaz. vol. 175; p. 731.
Eccentric ring. H. W. and D. R. Blakeslee. No. 1,013,367; Jan. 2; Sp. p. 608; Gaz. vol. 174; p. 97.
Eccentric, Variable-throw. F. H. Blanding. No. 1,046,375; Dec. 3; Gaz. vol. 185; p. 201.
Eccentric wheeler. L. W. G. Flynt. No. 1,030,576; June 25; Sp. p. 5584; Gaz. vol. 179; p. 971.
Economizer, regenerator, and the like. W. Mathesius. No. 1,027,875; May 28; Sp. p. 6138; Gaz. vol. 178; p. 1054.
Edge-chamfering machine. W. G. Eaton. No. 1,029,178; June 11; Sp. p. 2400; Gaz. vol. 179; p. 409.
Edge-forming machine. E. L. Wales. No. 1,047,346; Dec. 17; Gaz. vol. 185; p. 610.
Edge gage for stock-fitting machines. G. F. Wolfe. No. 1,030,631; June 25; Sp. p. 5793; Gaz. vol. 179; p. 993.
Edge gage, Straight-. E. C. Mershon. No. 1,017,639; Feb. 13; Sp. p. 3069; Gaz. vol. 175; p. 517.
Edge-setting machine. E. E. Winkley and B. Phillips. No. 1,034,851; Aug. 6; Gaz. vol. 181; p. 152.
Edge-setting machine. A. E. Jerram. No. 1,035,445; Aug. 13; Gaz. vol. 181; p. 384.
Edgings, Machine for making. J. P. Weis. No. 1,018,796; Feb. 27; Sp. p. 5700; Gaz. vol. 175; p. 985.
Edible products from bassia-seeds, Manufacture of. M. Monhaupt. No. 1,030,674; June 25; Sp. p. 5896; Gaz. vol. 179; p. 1007.
Educational apparatus. F. J. Westgate. No. 1,018,146; Feb. 20; Sp. p. 4266; Gaz. vol. 175; p. 732.
Educational appliance. A. W. Arnett. No. 1,013,856; Jan. 9; Sp. p. 1706; Gaz. vol. 174; p. 295.
Educational appliance. J. Hegewald. No. 1,028,212; June 4; Sp. p. 342; Gaz. vol. 179; p. 47.
Educational device. M. Mullins. No. 1,023,586; Apr. 16; Sp. p. 3897; Gaz. vol. 177; p. 686.
Educational device. H. Newman. No. 1,028,378; June 4; Sp. p. 687; Gaz. vol. 179; p. 104.
Educational device. S. H. Fanning. No. 1,038,332; Sept. 10; Gaz. vol. 182; p. 420.
Educational device. J. H. Fox. No. 1,041,059; Oct. 15; Gaz. vol. 183; p. 534.
Educational device. W. N. Hull. No. 1,043,596; Nov. 5; Gaz. vol. 184; p. 196.
Effervescent compound. E. H. Strickler. No. 1,037,078; Aug. 27; Gaz. vol. 181; p. 1009.
Egg, Antiseptic nest-. W. E. Smith. No. 1,042,494; Oct. 29; Gaz. vol. 183; p. 1082.
Egg-beater. F. G. Spear. No. 1,019,546; Mar. 5; Sp. p. 1224; Gaz. vol. 176; p. 182.
Egg-beater. R. R. Turner. No. 1,030,796; June 25; Sp. p. 6217; Gaz. vol. 179; p. 1051.
Egg-beater. S. A. Grant. No. 1,034,908; Aug. 6; Gaz. vol. 181; p. 169.
Egg-beater or the like. S. Leger. No. 1,032,551; July 16; Gaz. vol. 180; p. 672.
Egg-beater or the like. E. W. H. Helken. No. 1,039,735; Oct. 1; Gaz. vol. 183; p. 22.
Egg-beating, cream-whipping, &c., implement. E. H. Johnson. No. 1,025,982; May 14; Sp. p. 1944; Gaz. vol. 178; p. 336.
Egg-candler. H. R. Morris. No. 1,023,091; Apr. 9; Sp. p. 2847; Gaz. vol. 177; p. 484.
Egg-candler scoop. A. Brunnert. No. 1,030,280; June 25; Sp. p. 4834; Gaz. vol. 179; p. 865.
Egg-carrier. J. E. Herman. No. 1,029,542; June 11; Sp. p. 3184; Gaz. vol. 179; p. 534.
Egg-carrier. R. De Wright. No. 1,041,443; Oct. 15; Gaz. vol. 183; p. 663.
Egg-carrier. H. S. Jenne. No. 1,043,435; Nov. 5; Gaz. vol. 184; p. 139.
Egg carrier and delivery tray, Combined. H. H. Cummer. No. 1,049,211; Dec. 31; Gaz. vol. 185; p. 1315.
Egg carrier or receptacle. E. N. Gilfillan. No. 1,029,749; June 18; Sp. p. 3653; Gaz. vol. 179; p. 644.
Egg-case. F. A. Purchas and A. W. Chapin. No. 1,014,414; Jan. 9; Sp. p. 2946; Gaz. vol. 174; p. 489.
Egg-case. L. A. Pichon. No. 1,015,708; Jan. 23; Sp. p. 5776; Gaz. vol. 174; p. 984.
Egg-case. G. A. Fisher and J. A. Morrison. No. 1,017,254; Feb. 13; Sp. p. 2285; Gaz. vol. 175; p. 388.
Egg-case. A. Olson. No. 1,025,294; May 7; Sp. p. 401; Gaz. vol. 178; p. 66.
Egg-case. J. Fritz. No. 1,028,702; June 4; Sp. p. 1355; Gaz. vol. 179; p. 211.
Egg-case and means for emptying the same. A. Brunnert. No. 1,032,182; July 9; Gaz. vol. 180; p. 501.
Egg-cup. J. E. P. Pender. No. 1,030,324; June 25; Sp. p. 4941; Gaz. vol. 179; p. 881.
Egg marker and dater. W. S. Payne. No. 1,039,792; Oct. 1; Gaz. vol. 183; p. 41.

Egg-marking attachment for hens. A. Kurre. No. 1,037,644; Sept. 3; Gaz. vol. 182; p. 157.
Egg, Medicated nest-. A. F. Dice. No. 1,030,056; June 18; Sp. p. 4345; Gaz. vol. 179; p. 750.
Egg, Nest-. J. R. Clutter. No. 1,032,741; July 16; Gaz. vol. 180; p. 738.
Egg-preserving apparatus. F. R. James and A. C. Thompson. No. 1,019,048; Mar 5; Sp. p. 81; Gaz. vol. 176; p. 16.
Egg-saving packer. J. J. Miller. No. 1,026,359; May 14; Sp. p. 2816; Gaz. vol. 178; p. 466.
Egg-separator. O. H. Willard. No. 1,029,902; June 18; Sp. p. 4011; Gaz. vol. 179; p. 697.
Egg-separator, Sanitary. C. L. Svensson and H. A. Perry. No. 1,030,346; June 25; Sp. p. 4987; Gaz. vol. 179; p. 889.
Egg-tester. J. Carr. No. 1,016,610; Feb. 6; Sp. p. 877; Gaz. vol. 175; p. 131.
Egg-tester. D. B. Conway. No. 1,040,626; Oct. 8; Gaz. vol. 183; p. 355.
Egg-tester. W. D. Bixler. No. 1,042,191; Oct. 22; Gaz. vol. 183; p. 950.
Egg-tester. J. Balkema. No. 1,046,370; Dec. 3; Gaz. vol. 185; p. 199.
Egg tester and enumerator. A. H. Seay. No. 1,046,339; Dec. 3; Gaz. vol. 185; p. 188.
Egg-testing device. A. D. Fizer. No. 1,032,888; July 16; Gaz. vol. 180; p. 786.
Egg-testing device. W. Humphrey. No. 1,033,017; July 16; Gaz. vol. 180; p. 828.
Egg-testing device. H. C. Timms. No. 1,047,336; Dec. 17; Gaz. vol. 185; p. 607.
Egg-testing machine. S. J. Fish. No. 1,040,919; Oct. 8; Gaz. vol. 183; p. 453.
Egg-tray. C. D. Barr. No. 1,026,551; May 14; Sp. p. 3201; Gaz. vol. 178; p. 529.
Egg-turning device. P. H. Herndon. No. 1,018,191; Feb. 20; Sp. p. 4357; Gaz. vol. 175; p. 748.
Eggs, Chemical product for preserving. A. Duboux and C. H. Rapin. No. 1,019,614; Mar. 5; Sp. p. 1349; Gaz. vol. 176; p. 205.
Eggs, Conservation of. H. Jerne. No. 1,043,600; Nov. 5; Gaz. vol. 184; p. 198.
Eggs, cream, batter, &c., Beater for beating and aerating. E. P. Sperry. No. 1,036,159; Aug. 20; Gaz. vol. 181; p. 665.
Eggs, Preserving. F. Belhommet. No. 1,024,056; Apr. 23; Sp. p. 4899; Gaz. vol. 177; p. 868.
Ejector. F. J. O'Leary. No. 1,017,792; Feb. 20; Sp. p. 3455; Gaz. vol. 175; p. 607.
Ejector. M. Leblanc. No. 1,031,722; July 9; Gaz. vol. 180; p. 345.
Elastic fabric. W. Kops. No. 1,024,207; Apr. 23; Sp. p. 5258; Gaz. vol. 177; p. 921.
Elastic fabric. W. Kops. No. 1,030,893; July 2; Gaz. vol. 180; p. 15.
Elastic fabric. W. Kops. No. 1,030,894; July 2; Gaz. vol. 180; p. 15.
Elastic fabric. W. Kops. No. 1,030,895; July 2; Gaz. vol. 180; p. 16.
Elastic fabric. W. Kops. No. 1,044,890; Nov. 19; Gaz. vol. 184; p. 704.
Elastic fabric or webbing. C. J. White. No. 1,042,632; Oct. 29; Gaz. vol. 183; p. 1131.
Elastic material. W. J. Teufel. No. 1,035,107; Aug. 6; Gaz. vol. 181; p. 235.
Elastic webbing. W. Kops. No. 1,043,524; Nov. 5; Gaz. vol. 184; p. 172.
Elastic webbing. W. Kops. No. 1,043,525; Nov. 5; Gaz. vol. 184; p. 172.
Elastic webbing. W. Kops. No. 1,047,656; Dec. 17; Gaz. vol. 185; p. 718.
Elastic webbing and weaving the same. W. Kops. No. 1,024,206; Apr. 23; Sp. p. 5256; Gaz. vol. 177; p. 921.
Elastic wheel. L. A. Garchey. No. 1,017,259; Feb. 13; Sp. p. 2295; Gaz. vol. 175; p. 390.
Elastic wheel. H. G. Baldwin. No. 1,032,730; July 16; Gaz. vol. 180; p. 735.
Elastic wheel. N. Braibant. No. 1,033,664; July 23; Gaz. vol. 180; p. 1084.
Elastic wheel. L. A. Hubert. No. 1,039,538; Sept. 24; Gaz. vol. 182; p. 889.
Electric alarm. W. J. Knobloch. No. 1,026,518; May 14; Sp. p. 3149; Gaz. vol. 178; p. 519.
Electric alternating currents, Strengthening. R. Goldschmidt. No. 1,043,923; Nov. 12; Gaz. vol. 184; p. 339.
Electric apparatus, Alternating-current dynamo-. G. Winter and F. Eichberg. No. 1,016,866; Feb. 6; Sp. p. 1398; Gaz. vol. 175; p. 216.
Electric apparatus, Cooling vapor. P. H. Thomas. No. 1,048,762; Dec. 31; Gaz. vol. 185; p. 1161.
Electric apparatus, Gas or vapor. P. C. Hewitt and N. W. Rogers. No. 1,030,262; June 18; Sp. p. 4764; Gaz. vol. 179; p. 820.
Electric apparatus, High-tension magneto-. F. R. Simms. No. 1,017,474; Feb. 13; Sp. p. 2759; Gaz. vol. 175; p. 464.
Electric apparatus, Starter for vapor. P. C. Hewitt. No. 1,031,931; July 9; Gaz. vol. 180; p. 418.
Electric apparatus, Terminal for gas and vapor. D. M. Moore. No. 1,020,110; Mar. 12; Sp. p. 2357; Gaz. vol. 176; p. 403.
Electric apparatus, Vapor. W. R. Whitney. No. 1,023,286; Apr. 16; Sp. p. 3304; Gaz. vol. 177; p. 590.
Electric apparatus, Vapor. P. C. Hewitt. No. 1,025,464; May 7; Sp. p. 797; Gaz. vol. 178; p. 124.
Electric apparatus, Vapor. O. O. Kruh. No. 1,029,375; June 11; Sp. p. 2843; Gaz. vol. 179; p. 478.
Electric apparatus, Vapor. O. O. Kruh. No. 1,032,914; July 16; Gaz. vol. 180; p. 794.
Electric apparatus, Vapor. C. A. Kraus and R. D. Mailey. No. 1,046,081; Dec. 3; Gaz. vol. 185; p. 97.
Electric apparatus, Vapor. C. A. Kraus and R. D. Mailey. No. 1,046,082; Dec. 3; Gaz. vol. 185; p. 97.
Electric apparatus, Vapor. C. A. Kraus and R. D. Mailey. No. 1,046,083; Dec. 3; Gaz. vol. 185; p. 97.
Electric appliance. M. Thulin. No. 1,014,537; Jan. 9; Sp. p. 3164; Gaz. vol. 174; p. 527.
Electric-arc lamp. O. A. Ross. No. 1,032,946; July 16; Gaz. vol. 180; p. 804.
Electric arcs and apparatus therefor, Production of continuous. F. H. A. Wielgolaski and O. Schönherr. No. 1,028,516; June 4; Sp. p. 994; Gaz. vol. 179; p. 151.
Electric arcs for effecting gas reactions, Method of and apparatus for producing and utilizing disk-like. F. Rothe. No. 1,018,990; Feb. 27; Sp. p. 6122; Gaz. vol. 175; p. 1052.
Electric attachment-plug. M. Herskovitz. No. 1,042,348; Oct. 22; Gaz. vol. 183; p. 1002.
Electric battery. H. Halsey. No. 1,014,146; Jan. 9; Sp. p. 2348; Gaz. vol. 174; p. 393.
Electric battery. H. De Martis. No. 1,030,650; June 25; Sp. p. 5836; Gaz. vol. 179; p. 999.
Electric battery. C. D. Galloway, Jr. No. 1,035,178; Aug. 13; Gaz. vol. 181; p. 291.
Electric battery. W. H. Lowe. No. 1,044,549; Nov. 19; Gaz. vol. 184; p. 584.
Electric battery. G. A. Lutz. No. 1,045,862; Dec. 3; Gaz. vol. 185; p. 23.
Electric battery. F. L. White. No. 1,048,773; Dec. 31; Gaz. vol. 185; p. 1166.
Electric-box connection. T. H. Ward. No. 1,042,510; Oct. 29; Gaz. vol. 183; p. 1088.
Electric-bulb sockets, Shade-holder for. C. W. Lucas. No. 1,024,732; Apr. 30; Sp. p. 6446; Gaz. vol. 177; p. 1136.
Electric-cable-drying chamber. A. Cassirer. No. 1,025,121; May 7; Sp. p. 12; Gaz. vol. 178; p. 5.
Electric cables, Binding-post for connecting. G. Honold. No. 1,030,817; June 25; Sp. p. 6287; Gaz. vol. 179; p. 1059.
Electric call system. J. W. Wilson and W. H. Still. No. 1,021,713; Mar. 26; Sp. p. 5722; Gaz. vol. 176; p. 1028.
Electric-circuit breaker. F. L. Sessions. No. 1,040,440; Oct. 8; Gaz. vol. 183; p. 288.
Electric-circuit-control system. F. W. Harris. No. 1,017,052; Feb. 13; Sp. p. 1825; Gaz. vol. 175; p. 317.
Electric-circuit controller. H. C. Hastings and W. L. Wise. No. 1,019,467; Mar. 5; Sp. p. 1061; Gaz. vol. 176; p. 156.
Electric-circuit controller. W. D. Heath. No. 1,046,463; Dec. 10; Gaz. vol. 185; p. 270.
Electric-circuit controller. O. P. Noisom and H. Koontz. No. 1,047,112; Dec. 10; Gaz. vol. 185; p. 493.
Electric-circuit controller. R. H. Manson. No. 1,047,260; Dec. 17; Gaz. vol. 185; p. 577.
Electric-circuit-controlling apparatus. T. L. Lee, Jr. No. 1,024,587; Apr. 30; Sp. p. 6130; Gaz. vol. 177; p. 1085.
Electric-circuit-controlling apparatus. T. L. Lee, Jr. No. 1,024,588; Apr. 30; Sp. p. 6133; Gaz. vol. 177; p. 1085.
Electric-circuit-controlling means. G. A. Burnham. No. 1,029,974; June 18; Sp. p. 4159; Gaz. vol. 179; p. 720.
Electric-circuit-controlling system. H. B. Kahn. No. 1,034,119; July 30; Gaz. vol. 180; p. 1267.
Electric-circuit interrupter. R. P. Jackson. No. 1,013,167; Jan. 2; Sp. p. 160; Gaz. vol. 174; p. 27.
Electric-circuit-regulating means. H. Leitner and R. N. Lucas. No. 1,024,793; Apr. 30; Sp. p. 6585; Gaz. vol. 177; p. 1158.
Electric-circuit regulation. M. Guett. No. 1,021,774; Aug. 2; Sp. p. 36; Gaz. vol. 177; p. 9.
Electric-circuit safety device. E. H. Jacobs. No. 1,045,981; Dec. 3; Gaz. vol. 185; p. 63.
Electric circuits, Automatic controlling-switch for. G. J. Schneider. No. 1,046,499; Dec. 10; Gaz. vol. 185; p. 283.
Electric circuits, Contact-terminal for interrupting. G. Honold. No. 1,047,524; Dec. 17; Gaz. vol. 185; p. 671.
Electric circuits, Time-switch for. F. W. Smith. No. 1,022,708; Apr. 9; Sp. p. 2047; Gaz. vol. 177; p. 354.
Electric coils, Making. J. L. Milton. No. 1,046,211; Dec. 3; Gaz. vol. 185; p. 142.
Electric-conductor connector. H. F. Maxim. No. 1,039,422; Sept. 24; Gaz. vol. 182; p. 848.
Electric-conductor connector. H. F. Maxim. No. 1,039,423; Sept. 24; Gaz. vol. 182; p. 848.
Electric-conductor connector. H. F. Maxim. No. 1,039,424; Sept. 24; Gaz. vol. 182; p. 848.
Electric-conductor distribution. F. W. Erickson. No. 1,015,484; Jan. 23; Sp. p. 5296; Gaz. vol. 174; p. 908.

Alphabetical list of inventions—Continued.

Electric-conductor terminal. F. E. Case. No. 1,019,423; Mar. 5; Sp. p. 971; Gaz. vol. 176; p. 142.
Electric conductors, Connecting device for. R. R. Dunlop. No. 1,042,897; Oct. 29; Gaz. vol. 183; p. 1223.
Electric conductors, Connecting device for. D. T. Fisher. No. 1,043,759; Nov. 5; Gaz. vol. 184; p. 250.
Electric conductors, Connecting device for. D. T. Fisher. No. 1,046,759; Dec. 10; Gaz. vol. 185; p. 376.
Electric conductors, Switch and connecting device for. N. D. Levin. No. 1,045,572; Nov. 26; Gaz. vol. 184; p. 971.
Electric conductors to insulators, Means of fastening. J. S. Thompson. No. 1,022,161; Apr. 2; Sp. p. 868; Gaz. vol. 177; p. 138.
Electric conduit. O. T. Hungerford. No. 1,017,759; Feb. 20; Sp. p. 3329; Gaz. vol. 175; p. 596.
Electric-conduit fitting. B. M. Graybill. No. 1,034,909; Aug. 6; Gaz. vol. 181; p. 169.
Electric-conduit fitting. W. C. Robinson. (Reissue.) No. 13,475; Oct. 8; Gaz. vol. 183; p. 479.
Electric-conduit fitting. C. H. Bissell and C. B. Garling. No. 1,043,797; Nov. 12; Gaz. vol. 184; p. 295.
Electric-conduit outlet-boxes, Adjustable fixture-stud for. W. S. Earhart. No. 1,040,175; Oct. 1; Gaz. vol. 183; p. 169.
Electric conduits, Outlet-box for. W. A. Bonnell. (Reissue.) No. 13,432; June 25; Sp. p. 6453; Gaz. vol. 179; p. 1075.
Electric connector. L. F. Parkhurst. No. 1,035,227; Aug. 6; Gaz. vol. 181; p. 307.
Electric contact device. C. W. Coleman. No. 1,024,718; Apr. 30; Sp. p. 6421; Gaz. vol. 177; p. 1131.
Electric contact device. C. W. Coleman. No. 1,024,719; Apr. 30; Sp. p. 6423; Gaz. vol. 177; p. 1131.
Electric control system. H. W. Leonard. No. 1,043,778; Nov. 5; Gaz. vol. 184; p. 257.
Electric controller. A. C. Eastwood. No. 1,013,754; Jan. 2; Sp. p. 1466; Gaz. vol. 174; p. 232.
Electric controller. A. C. Eastwood. No. 1,014,625; Jan. 9; Sp. p. 3369; Gaz. vol. 174; p. 557.
Electric controller. J. P. Hayes. No. 1,017,413; Feb. 13; Sp. p. 2614; Gaz. vol. 175; p. 443.
Electric controller. W. Schwieder. No. 1,027,072; May 21; Sp. p. 4419; Gaz. vol. 178; p. 747.
Electric controller. R. V. Sill. No. 1,030,617; June 25; Sp. p. 5736; Gaz. vol. 179; p. 988.
Electric controller. G. B. Dusinberre. No. 1,038,320; Sept. 10; Gaz. vol. 182; p. 416.
Electric controller. A. C. Eastwood. No. 1,040,292; Oct. 8; Gaz. vol. 183; p. 238.
Electric controller. J. A. Latimer. No. 1,040,359; Oct. 8; Gaz. vol. 183; p. 261.
Electric controller. J. A. Moore. No. 1,043,340; Nov. 5; Gaz. vol. 184; p. 105.
Electric-controller crank. G. E. Henry. No. 1,027,129; May 21; Sp. p. 4557; Gaz. vol. 178; p. 765.
Electric-controller device. J. F. Miller and W. V. Turner. No. 1,039,170; Sept. 24; Gaz. vol. 182; p. 757.
Electric controlling device. H. W. Leonard. No. 1,042,130; Oct. 22; Gaz. vol. 183; p. 931.
Electric coupling. P. C. Wild. No. 1,014,108; Jan. 9; Sp. p. 2282; Gaz. vol. 174; p. 380.
Electric cranes, Current-collector for. F. C. Lemon. No. 1,014,071; Jan. 9; Sp. p. 2197; Gaz. vol. 174; p. 368.
Electric-current controller. H. Kaeter. No. 1,037,016; Aug. 27; Gaz. vol. 181; p. 989.
Electric-current-distribution system. C. M. Moss and S. Q. Hayes. No. 1,017,060; Feb. 13; Sp. p. 1845; Gaz. vol. 175; p. 320.
Electric-current-distribution system. H. M. Scheibe. No. 1,036,914; Aug. 27; Gaz. vol. 181; p. 953.
Electric-current generator. J. M. Wilson. No. 1,038,254; Sept. 10; Gaz. vol. 182; p. 394.
Electric-current indicator. F. Kratz. No. 1,048,179; Dec. 24; Gaz. vol. 185; p. 924.
Electric-current machinery, Safety device for. J. M. S. Fontecha. No. 1,035,563; Aug. 13; Gaz. vol. 181; p. 424.
Electric-current-producing devices, Means to control magnetic circulation in. E. F. Smith. No. 1,044,827; Nov. 19; Gaz. vol. 184; p. 682.
Electric-current regulator. J. S. Goodwin. No. 1,031,708; July 9; Gaz. vol. 180; p. 341.
Electric-current-supply system. P. Kennedy. No. 1,019,483; Mar. 5; Sp. p. 1108; Gaz. vol. 176; p. 162.
Electric-current transformer. E. C. Westcott. No. 1,048,436; Dec. 24; Gaz. vol. 185; p. 1009.
Electric-current variations, System for amplifying. C. D. Lindridge. No. 1,047,956; Dec. 24; Gaz. vol. 185; p. 849.
Electric currents, Apparatus for measuring the ratio of two. L. Joly. No. 1,033,409; July 23; Gaz. vol. 180; p. 1000.
Electric currents, Apparatus for the production of high-potential. D. G. McCaa. No. 1,047,545; Dec. 17; Gaz. vol. 185; p. 678.
Electric currents, Method of and apparatus for amplifying varying. L. W. Southgate. No. 1,033,629; July 23; Gaz. vol. 180; p. 1073.
Electric cut-out. H. R. Sargent. No. 1,014,854; Jan. 16; Sp. p. 3945; Gaz. vol. 174; p. 668.
Electric cut-out. T. E. Murray. No. 1,021,550; Mar. 26; Sp. p. 5424; Gaz. vol. 176; p. 977.
Electric cut-out. T. E. Murray. No. 1,023,326; Apr. 16; Sp. p. 3381; Gaz. vol. 177; p. 603.
Electric cut-out. T. E. Murray. No. 1,028,256; June 4; Sp. p. 425; Gaz. vol. 179; p. 61.
Electric cut-out. T. E. Murray. No. 1,028,258; June 4; Sp. p. 428; Gaz. vol. 179; p. 62.
Electric cut-out. T. E. Murray. No. 1,041,846; Oct. 22; Gaz. vol. 183; p. 836.
Electric cut-out. T. E. Murray. No. 1,041,847; Oct. 22; Gaz. vol. 183; p. 837.
Electric cut-out. T. E. Murray. No. 1,048,857; Dec. 31; Gaz. vol. 185; p. 1194.
Electric cut-out or switch. G. A. Jordan. No. 1,018,501; Feb. 27; Sp. p. 5029; Gaz. vol. 175; p. 885.
Electric cut-out, Protective. S. G. Rhodes. No. 1,019,362; Mar. 5; Sp. p. 822; Gaz. vol. 176; p. 123.
Electric cut-out switch, Automatic. R. Winterhalder. No. 1,025,357; May 7; Sp. p. 556; Gaz. vol. 178; p. 87.
Electric-despatch system. K. Hansel. No. 1,046,782; Dec. 10; Gaz. vol. 185; p. 384.
Electric device, Magneto-. H. N. Motsinger. No. 1,021,001; Mar. 26; Sp. p. 4244; Gaz. vol. 176; p. 788.
Electric device, Vapor. E. Weintraub. No. 1,022,010; Apr. 2; Sp. p. 559; Gaz. vol. 177; p. 88.
Electric device, Vapor. F. A. Kroner. No. 1,042,565; Oct. 29; Gaz. vol. 183; p. 1106.
Electric device, Vapor. E. Thomson. No. 1,045,641; Nov. 26; Gaz. vol. 184; p. 996.
Electric distribution system. V. G. Apple. No. 1,034,561; Aug. 6; Gaz. vol. 181; p. 54.
Electric drier. T. B. Ray and W. Laford. No. 1,021,704; Mar. 26; Sp. p. 5706; Gaz. vol. 176; p. 1026.
Electric drill. W. J. Bauroth. No. 1,044,338; Nov. 12; Gaz. vol. 184; p. 482.
Electric energy into heat, Means for transforming. C. O. Bastian. No. 1,032,267; July 9; Gaz. vol. 180; p. 531.
Electric energy, Means for control of. H. W. Leonard. No. 1,043,777; Nov. 5; Gaz. vol. 184; p. 256.
Electric fixture. J. Neuhoefer, A. and W. Polascheck. No. 1,014,897; Jan. 16; Sp. p. 4032; Gaz. vol. 174; p. 682.
Electric fixture. L. Schepmoes. No. 1,025,208; May 7; Sp. p. 217; Gaz. vol. 178; p. 36.
Electric fixture. J. L. Palmer and C. N. Wheeler. No. 1,029,557; June 11; Sp. p. 3225; Gaz. vol. 179; p. 541.
Electric fixture. J. L. Palmer and C. N. Wheeler. No. 1,029,558; June 11; Sp. p. 3228; Gaz. vol. 179; p 541.
Electric fixture. A. R. Lockwood. No. 1,039,556; Sept. 24; Gaz. vol. 182; p. 896.
Electric-fixture connection. J. P. Rohan. No. 1,016,777; Feb. 6; Sp. p. 1224; Gaz. vol. 175; p. 188.
Electric-fixture coupling. J. T. Bartley. No. 1,017,368; Feb. 13; Sp. p. 2512; Gaz. vol. 175; p. 426.
Electric fixtures or electroliers, Shade-holder for. L. W. Andersen. No. 1,026,422; May 14; Sp. p. 2941; Gaz. vol. 178; p. 487.
Electric foot-switch. C. A. Lundgren. No. 1,031,191; July 2; Gaz. vol. 180; p. 122.
Electric furnace. F. Louvrier. No. 1,013,189; Jan. 2; Sp. p. 194; Gaz. vol. 174; p. 35.
Electric furnace. M. Appel. No. 1,013,359; Jan. 2; Sp. p. 597; Gaz. vol. 174; p. 95.
Electric furnace. M. Ruthenburg. No. 1,018,727; Feb. 27; Sp. p. 5554; Gaz. vol. 175; p. 961.
Electric furnace. A. E. Greene. No. 1,021,187; Mar. 26; Sp. p. 4632; Gaz. vol. 176; p. 849.
Electric furnace. C. T. Fuller. No. 1,023,371; Apr. 16; Sp. p. 3455; Gaz. vol. 177; p. 617.
Electric furnace. M. R. Conley. No. 1,023,996; Apr. 23; Sp. p. 4775; Gaz. vol. 177; p. 847.
Electric furnace. E. Stassano. No. 1,024,657; Apr. 30; Sp. p. 6295; Gaz. vol. 177; p. 1109.
Electric furnace. C. A. Weeks. No. 1,034,747; Aug. 6; Gaz. vol. 181; p. 116.
Electric furnace. M. J. Johnson. No. 1,035,596; Aug. 13; Gaz. vol. 181; p. 435.
Electric furnace. E. A. A. Grönwall, A. R. Lindblad, and O. Stålhane. No. 1,039,732; Oct. 1; Gaz. vol. 183; p. 21.
Electric furnace. O. Vogel. No. 1,040,818; Oct. 8; Gaz. vol. 183; p. 420.
Electric furnace. J. A. Seede. No. 1,042,613; Oct. 29; Gaz. vol. 183; p. 1125.
Electric furnace. T. P. Sharts. No. 1,044,088; Nov. 12; Gaz. vol. 184; p. 397.
Electric furnace for producing gas reactions. H. Pauling. No. 1,029,886; June 18; Sp. p. 3978; Gaz. vol. 179; p. 692.
Electric furnace for producing oxids of phosphorus from natural phosphates. F. S. Washburn. No. 1,044,957; Nov. 19; Gaz. vol. 184; p. 726.
Electric furnace for smelting and reduction of ore. H. B. Lorentzen. No. 1,030,904; July 2; Gaz. vol. 180; p. 18.
Electric furnace method and apparatus. E. Weintraub. No. 1,019,392; Mar. 5; Sp. p. 906; Gaz. vol. 176; p. 133.
Electric fuse, Inclosed. L. B. Buchanan. No. 1,033,754; July 23; Gaz. vol. 180; p. 1111.

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Electric generator. B. P. and F. I. Remy, F. P. McDermott, Jr., and I. J. Reuter. No. 1,024,225; Apr. 23; Sp. p. 5300; Gaz. vol. 177; p. 929.
Electric generator, Variable-speed. C. H. Roth and W. J. Warder, Jr. No. 1,039,197; Sept. 24; Gaz. vol. 182; p. 769.
Electric generators, Means for supporting and driving. G. M. Turner. No. 1,030,354; June 25; Sp. p. 5007; Gaz. vol. 179; p. 892.
Electric-globe packing and testing means, Incandescent-. A. A. Brown. No. 1,034,762; Aug. 6; Gaz. vol. 181; p. 121.
Electric heater. R. Smith. No. 1,013,327; Jan. 2; Sp. p. 530; Gaz. vol. 174; p. 84.
Electric heater. C. O. Bastian. No. 1,014,437; Jan. 9; Sp. p. 2990; Gaz. vol. 174; p. 496.
Electric heater. J. F. Monnot. No. 1,014,662; Jan. 16; Sp. p. 3506; Gaz. vol. 174; p. 601.
Electric heater. L. E. A. Kelso. No. 1,017,874; Feb. 20; Sp. p. 3643; Gaz. vol. 175; p. 636.
Electric heater. W. S. Hadaway, Jr. No. 1,018,558; Feb. 27; Sp. p. 5213; Gaz. vol. 175; p. 906.
Electric heater. H. P. Ball. No. 1,021,230; Mar. 26; Sp. p. 4730; Gaz. vol. 176; p. 864.
Electric heater. W. S. Andrews. No. 1,022,016; Apr. 2; Sp. p. 567; Gaz. vol. 177; p. 89.
Electric heater. C. P. Madsen. No. 1,023,475; Apr. 16; Sp. p. 3667; Gaz. vol. 177; p. 650.
Electric heater. W. Stanley. No. 1,027,291; May 21; Sp. p. 4876; Gaz. vol. 178; p. 820.
Electric heater. L. F. Parkhurst. No. 1,028,383; June 4; Sp. p. 695; Gaz. vol. 179; p. 106.
Electric heater. J. E. Harvey. No. 1,033,799; July 30; Gaz. vol. 180; p. 1153.
Electric heater. A. P. Blenkner and B. Z. Smith. No. 1,033,867; July 30; Gaz. vol. 180; p. 1177.
Electric heater. C. P. Madsen. No. 1,034,130; July 30; Gaz. vol. 180; p. 1270.
Electric heater. R. M. Miliar. No. 1,034,393; July 30; Gaz. vol. 180; p. 1363.
Electric heater. F. C. Perkins and M. M. Buck. No. 1,035,042; Aug. 6; Gaz. vol. 181; p. 213.
Electric heater. E. C. Donaldson. No. 1,035,555; Aug. 13; Gaz. vol. 181; p. 421.
Electric heater. C. H. Allen. No. 1,037,573; Sept. 3; Gaz. vol. 182; p. 134.
Electric heater. F. Kuhn and F. E. Shailor. No. 1,037,932; Sept. 10; Gaz. vol. 182; p. 287.
Electric heater. F. P. Mies. No. 1,038,410; Sept. 10; Gaz. vol. 182; p. 448.
Electric heater. F. H. Smith. No. 1,040,043; Oct. 1; Gaz. vol. 183; p. 124.
Electric heater. L. F. Parkhurst. No. 1,046,103; Dec. 3; Gaz. vol. 185; p. 104.
Electric heater. W. Stanley. No. 1,046,888; Dec. 10; Gaz. vol. 185; p. 419.
Electric heater, Flexible. L. C. Rhea. No. 1,027,763; May 28; Sp. p. 5831; Gaz. vol. 178; p. 1015.
Electric heater, Portable. F. L. Dyer. No. 1,021,974; Apr. 2; Sp. p. 483; Gaz. vol. 177; p. 77.
Electric heaters and irons, Stand for. R. P. Moodie and C. W. Ball. No. 1,026,596; May 14; Sp. p. 3290; Gaz. vol. 178; p. 544.
Electric heaters, Automatic cut-out for. W. S. Andrews. No. 1,025,852; May 7; Sp. p. 1623; Gaz. vol. 178; p. 257.
Electric heating devices, Cut-out for. E. E. Rose. No. 1,039,810; Oct. 1; Gaz. vol. 183; p. 48.
Electric heating unit. T. Van Aller. No. 1,024,234; Apr. 23; Sp. p. 5322; Gaz. vol. 177; p. 932.
Electric heating unit. L. F. Parkhurst. No. 1,043,029; Oct. 29; Gaz. vol. 183; p. 1268.
Electric hoists, Safety device for. J. H. Hall. No. 1,027,126; May 21; Sp. p. 4551; Gaz. vol. 178; p. 765.
Electric horn. M. E. Hepburn. No. 1,045,706; Nov. 26; Gaz. vol. 184; p. 1019.
Electric ignition device. T. Hubert. No. 1,045,405; Nov. 26; Gaz. vol. 184; p. 910.
Electric ignition-gear, Distributer for. F. R. Simms. No. 1,036,356; Aug. 20; Gaz. vol. 181; p. 734.
Electric illuminating-body. G. Weissmann. No. 1,047,353; Dec. 17; Gaz. vol. 185; p. 612.
Electric illuminating device. R. H. Henderson. No. 1,024,573; Apr. 30; Sp. p. 6108; Gaz. vol. 177; p. 1080.
Electric illumination. I. Kitsee. No. 1,017,263; Feb. 13; Sp. p. 2301; Gaz. vol. 175; p. 391.
Electric impulses, Electrocapillary instrument for detecting and recording the passage of. A. Orling. No. 1,037,972; Sept. 10; Gaz. vol. 182; p. 302.
Electric indicator system. S. R. Stone. No. 1,013,904; Jan. 9; Sp. p. 1820; Gaz. vol. 174; p. 312.
Electric induction-furnace. J. H. Reid. No. 1,021,478; Mar. 26; Sp. p. 5277; Gaz. vol. 176; p. 951.
Electric induction-furnace. A. E. Greene. No. 1,036,996; Aug. 27; Gaz. vol. 181; p. 982.
Electric iron. W. Heaviside. No. 1,031,443; July 2; Gaz. vol. 180; p. 207.
Electric jacquard apparatus. A. Regal. No. 1,017,063; Feb. 13; Sp. p. 1850; Gaz. vol. 175; p. 321.
Electric light. A. W. Gast. No. 1,043,821; Nov. 12; Gaz. vol. 184; p. 304.
Electric-light arm. S. D. R. Braun. No. 1,030,642; June 25; Sp. p. 5814; Gaz. vol. 179; p. 996.
Electric-light attachment. W. S. Ryan. No. 1,017,173; Feb. 13; Sp. p. 2101; Gaz. vol. 175; p. 360.
Electric-light attachment. A. J. Pagnod. No. 1,024,417; Apr. 23; Sp. p. 5686; Gaz. vol. 177; p. 990.
Electric-light attachment. J. C. Zubli and A. Vles. No. 1,025,896; May 7; Sp. p. 1769; Gaz. vol. 178; p. 271.
Electric-light bracket. A. F. Anderson and C. W. Armstrong. No. 1,025,442; May 7; Sp. p. 751; Gaz. vol. 178; p. 116.
Electric-light bracket. F. L. Ellis. No. 1,046,573; Dec. 10; Gaz. vol. 185; p. 309.
Electric-light bracket, Extensible. F. L. Ellis. No. 1,030,987; July 2; Gaz. vol. 180; p. 48.
Electric-light-cord adjuster. T. Smith. No. 1,034,741; Aug. 6; Gaz. vol. 181; p. 114.
Electric-light devices, Combined socket-cover and shade-holder for. L. W. Andersen. No. 1,037,101; Aug. 27; Gaz. vol. 181; p. 1018.
Electric-light display system. H. E. Way. No. 1,040,475; Oct. 8; Gaz. vol. 183; p. 299.
Electric-light fixture. W. F. and F. Overbagh and I. H. Brent. No. 1,017,267; Feb. 13; Sp. p. 2307; Gaz. vol. 175; p. 393.
Electric-light fixture. W. J. Cherry. No. 1,046,972; Dec. 10; Gaz. vol. 185; p. 446.
Electric-light fixture. R. S. Kennedy. No. 1,047,074; Dec. 10; Gaz. vol. 185; p. 479.
Electric-light fixture or electrolier. W. Goodwin. No. 1,041,458; Oct. 15; Gaz. vol. 183; p. 669.
Electric-light fixture or electrolier. W. Goodwin. No. 1,041,459; Oct. 15; Gaz. vol. 183; p. 669.
Electric-light fixture, Portable. L. A. Williamson. No. 1,027,633; May 28; Sp. p. 5564; Gaz. vol. 178; p. 972.
Electric-light fixture, Portable. L. A. Williamson. No. 1,027,634; May 28; Sp. p. 566; Gaz. vol. 178; p. 973.
Electric-light fixture, Portable. L. A. Williamson. No. 1,027,635; May 28; Sp. p. 5567; Gaz. vol. 178; p. 973.
Electric light, Portable. C. Hubert. No. 1,035,879; Aug. 20; Gaz. vol. 181; p. 568.
Electric light, Portable. C. Hubert. No. 1,047,525; Dec. 17; Gaz. vol. 185; p. 671.
Electric-light socket. T. A. C. Both. No. 1,036,551; Aug. 27; Gaz. vol. 181; p. 834.
Electric-light socket. F. T. Moreland and P. H. Petersen. No. 1,038,415; Sept. 10; Gaz. vol. 182; p. 450.
Electric-light socket. T. A. C. Both. No. 1,040,131; Oct. 1; Gaz. vol. 183; p. 154.
Electric-light-socket handle. F. Clapham. No. 1,024,311; Apr. 23; Sp. p. 5462; Gaz. vol. 177; p. 957.
Electric-light sockets, Shade-holder attachment for. P. H. Robinson. No. 1,018,270; Feb. 20; Sp. p. 4505; Gaz. vol. 175; p. 774.
Electric-light stand or support. J. F. Pierce. No. 1,044,689; Nov. 19; Gaz. vol. 184; p. 634.
Electric-light support or holder, Incandescent-. H. E. Beisler. No. 1,044,852; Nov. 19; Gaz. vol. 184; p. 690.
Electric-light switch. C. P. Smith. No. 1,018,934; Feb. 27; Sp. p. 5982; Gaz. vol. 175; p. 1031.
Electric lights, Combined socket and switch for. D. A. Bailey. No. 1,036,418; Aug. 20; Gaz. vol. 181; p. 756.
Electric lights, telephones, &c., Holder for. C. W. Sprague. No. 1,025,026; Apr. 30; Sp. p. 7048; Gaz. vol. 177; p. 1238.
Electric lighter for gas-burners. S. Brown. No. 1,026,848; May 21; Sp. p. 3867; Gaz. vol. 178; p. 668.
Electric lighting. C. P. Steinmetz. No. 1,020,323; Mar. 12; Sp. p. 2784; Gaz. vol. 176; p. 472.
Electric lighting. F. L. Temple. No. 1,044,291; Nov. 12; Gaz. vol. 184; p. 466.
Electric lighting and engine-starting system. C. E. Bonine. No. 1,023,122; Apr. 16; Sp. p. 2938; Gaz. vol. 177; p. 532.
Electric-lighting apparatus. W. D. Uptegraff. No. 1,044,950; Nov. 19; Gaz. vol. 184; p. 724.
Electric-lighting apparatus, Vacuum-tube. D. M. Moore. No. 1,032,928; July 16; Gaz. vol. 180; p. 799.
Electric-lighting device. L. W. Andersen. No. 1,022,919; Apr. 9; Sp. p. 2493; Gaz. vol. 177; p. 424.
Electric-lighting fixture, Outdoor. R. B. Benjamin. No. 1,036,064; Aug. 20; Gaz. vol. 181; p. 630.
Electric lighting, Incandescent. W. L. Bliss. No. 1,022,057; Apr. 2; Sp. p. 651; Gaz. vol. 177; p. 103.
Electric lighting or heating, Current-regulating device or resistance applicable for. W. Sumner. No. 1,037,683; Sept. 3; Gaz. vol. 182; p. 171.
Electric-lighting system. C. E. Bonine. No. 1,023,121; Apr. 16; Sp. p. 2932; Gaz. vol. 177; p. 532.
Electric-lighting system. E. and N. R. Booth. No. 1,024,495; Apr. 30; Sp. p. 5889; Gaz. vol. 177; p. 1053.
Electric-lighting system for vehicles. S. W. Rushmore. No. 1,016,037; Jan. 30; Sp. p. 6473; Gaz. vol. 174; p. 1126.
Electric-lighting system, Interior. A. Blondel. No. 1,019,730; Mar. 5; Sp. p. 1565; Gaz. vol. 176; p. 243.
Electric line, Aerial. W. Ellingen. No. 1,030,060; June 18; Sp. p. 4350; Gaz. vol. 179; p. 750.
Electric-line switch. F. Fisher. No. 1,017,527; Feb. 13; Sp. p. 2860; Gaz. vol. 175; p. 483.

Alphabetical list of inventions—Continued.

Electric-line-tapping connector. J. F. Richardson. No. 1,027,279; May 21; Sp. p. 4851; Gaz. vol. 178; p. 817.
Electric lock. W. S. Henry. No. 1,028,568; June 4; Sp. p. 1102; Gaz. vol. 179; p. 167.
Electric machine, Alternating-current commutator dynamo-. W. Doinikoff. No. 1,038,861; Sept. 17; Gaz. vol. 182; p. 640.
Electric machine, Alternating-current dynamo-. G. Winter and F. Eichberg. No. 1,016,865; Feb. 6; Sp. p. 1393; Gaz. vol. 175; p. 216.
Electric-machine cooling means, Dynamo-. W. A. Dick. No. 1,034,890; Aug. 6; Gaz. vol. 181; p. 164.
Electric-machine core structure, Dynamo-. E. R. Knight. No. 1,030,095; June 18; Sp. p. 4423; Gaz. vol. 179; p. 764.
Electric machine, Dynamo-. C. A. Psilander. No. 1,013,216; Jan. 2; Sp. p. 277; Gaz. vol. 174; p. 44.
Electric machine, Dynamo-. L. J. Hunt. (Reissue.) No. 13,354; Jan. 9; Sp. p. 3414; Gaz. vol. 174; p. 564.
Electric machine, Dynamo-. E. D. Priest. No. 1,014,904; Jan. 16; Sp. p. 4046; Gaz. vol. 174; p. 684.
Electric machine, Dynamo-. H. Geisenhöner. No. 1,016,005; Jan. 30; Sp. p. 6404; Gaz. vol. 174; p. 1114.
Electric machine, Dynamo-. E. M. Tingley. No. 1,018,531; Feb. 27; Sp. p. 5137; Gaz. vol. 175; p. 895.
Electric machine, Dynamo-. B. G. Lamme. No. 1,018,571; Feb. 27; Sp. p. 5236; Gaz. vol. 175; p. 910.
Electric machine, Dynamo-. W. J. Foster. No. 1,022,023; Apr. 2; Sp. p. 580; Gaz. vol. 177; p. 91.
Electric machine, Dynamo-. B. Frankenfield. No. 1,023,511; Apr. 16; Sp. p. 3744; Gaz. vol. 177; p. 662.
Electric machine, Dynamo-. W. W. Dean. No. 1,026,737; May 21; Sp. p. 3624; Gaz. vol. 178; p. 630.
Electric machine, Dynamo-. J. E. Noeggerath. No. 1,027,145; May 21; Sp. p. 4588; Gaz. vol. 178; p. 771.
Electric machine, Dynamo-. L. W. Nelson. No. 1,027,273; May 21; Sp. p. 4831; Gaz. vol. 178; p. 814.
Electric machine, Dynamo-. W. H. Powell and R. B. Williamson. No. 1,028,963; June 11; Sp. p. 1942; Gaz. vol. 179; p. 335.
Electric machine, Dynamo-. H. H. Ralston. No. 1,028,965; June 11; Sp. p. 1947; Gaz. vol. 179; p. 336.
Electric machine, Dynamo-. B. A. Behrend. No. 1,028,985; June 11; Sp. p. 1995; Gaz. vol. 179; p. 344.
Electric machine, Dynamo-. H. H. Ralston. No. 1,030,013; June 18; Sp. p. 4232; Gaz. vol. 179; p. 733.
Electric machine, Dynamo-. R. B. Williamson. No. 1,030,041; June 18; Sp. p. 4301; Gaz. vol. 179; p. 744.
Electric machine, Dynamo-. B. Elshoff. No. 1,030,061; June 18; Sp. p. 4350; Gaz. vol. 179; p. 750.
Electric machine, Dynamo-. R. B. Williamson. No. 1,030,556; June 25; Sp. p. 5493; Gaz. vol. 179; p. 963.
Electric machine, Dynamo-. R. B. Williamson. No. 1,030,557; June 25; Sp. p. 5496; Gaz. vol. 179; p. 964.
Electric machine, Dynamo-. A. M. Gray. No. 1,030,581; June 25; Sp. p. 5603; Gaz. vol. 179; p. 973.
Electric machine, Dynamo-. B. G. Lamme. No. 1,031,009; July 2; Gaz. vol. 180; p. 56.
Electric machine, Dynamo-. V. G. Apple. No. 1,031,316; July 2; Gaz. vol. 180; p. 165.
Electric machine, Dynamo-. C. C. Mitchell. No. 1,033,188; July 23; Gaz. vol. 180; p. 926.
Electric machine, Dynamo-. J. Burke. No. 1,033,379; July 23; Gaz. vol. 180; p. 991.
Electric machine, Dynamo-. J. C. Macfarlane and H. Burge. No. 1,035,717; Aug. 13; Gaz. vol. 181; p. 475.
Electric machine, Dynamo-. M. Walker. No. 1,036,757; Aug. 27; Gaz. vol. 181; p. 902.
Electric machine, Dynamo-. F. C. Hall. No. 1,036,835; Aug. 27; Gaz. vol. 181; p. 929.
Electric machine, Dynamo-. L. W. Nelson. No. 1,038,494; Sept. 10; Gaz. vol. 182; p. 477.
Electric machine, Dynamo-. R. J. Dearborn. No. 1,042,408; Oct. 29; Gaz. vol. 183; p. 1051.
Electric machine, Dynamo-. J. E. Noeggerath. No. 1,043,028; Oct. 29; Gaz. vol. 183; p. 1268.
Electric machine, Dynamo-. J. B. Wiard. No. 1,043,887; Nov. 12; Gaz. vol. 184; p. 327.
Electric machine, Dynamo-. V. A. Fynn. No. 1,044,640; Nov. 19; Gaz. vol. 184; p. 616.
Electric machine, Dynamo-. R. Lundell. No. 1,045,158; Nov. 26; Gaz. vol. 184; p. 824.
Electric machine, Dynamo-. C. E. Bonine. No. 1,047,158; Dec. 17; Gaz. vol. 185; p. 540.
Electric machine, Dynamo-. J. C. Macfarlane and H. Burge. No. 1,047,821; Dec. 17; Gaz. vol. 185; p. 775.
Electric machine, Dynamo-. M. E. Thompson. No. 1,048,006; Dec. 24; Gaz. vol. 185; p. 865.
Electric machine, Dynamo-. J. C. Macfarlane and H. Burge. No. 1,049,114; Dec. 31; Gaz. vol. 185; p. 1282.
Electric machine, High-tension magneto-. W. O. Kennington. No. 1,039,543; Sept. 24; Gaz. vol. 182; p. 891.
Electric machine, Homopolar, acyclic, or unipolar dynamo-. O. Schulz. No. 1,025,021; Apr. 30; Sp. p. 7035; Gaz. vol. 177; p. 1236.
Electric-machine regulating apparatus, Dynamo-. C. E. Bonine. No. 1,026,900; May 21; Sp. p. 3990; Gaz. vol. 178; p. 686.
Electric-machine rotor. R. Goldschmidt. No. 1,043,047; Oct. 29; Gaz. vol. 183; p. 1275.
Electric machine, Static. T. H. Patee. No. 1,043,030; Oct. 29; Gaz. vol. 183; p. 1268.
Electric machines, Brush for dynamo-. A. Press. No. 1,028,964; June 11; Sp. p. 1945; Gaz. vol. 179; p. 336.
Electric machines, Circuit-breaker for magneto-. C. A. Pfanstiehl. No. 1,017,794; Feb. 20; Sp. p. 3457; Gaz. vol. 175; p. 608.
Electric machines, Collecting device for dynamo-. H. E. Ralston. No. 1,016,774; Feb. 6; Sp. p. 1220; Gaz. vol. 175; p. 187.
Electric machines, Core structure for dynamo-. C. B. Mills. No. 1,046,834; Dec. 10; Gaz. vol. 185; p. 400.
Electric machines, Gear-case for dynamo-. J. F. Curtis. No. 1,039,703; Oct. 1; Gaz. vol. 183; p. 10.
Electric machines, Magnetizable wedge for dynamo-. R. E. Hellmund. No. 1,024,572; Apr. 30; Sp. p. 6107; Gaz. vol. 177; p. 1080.
Electric machines, Regulating dynamo-. G. H. Condict. No. 1,029,276; June 11; Sp. p. 2607; Gaz. vol. 179; p. 443.
Electric machines, Suspension device for dynamo-. A. H. Darker. No. 1,045,818; Dec. 3; Gaz. vol. 185; p. 8.
Electric machinery, Dynamo-. C. A. Parsons and A. H. Law. No. 1,022,255; Apr. 2; Sp. p. 1060; Gaz. vol. 177; p. 169.
Electric magneto-machine. G. W. Foye. No. 1,028,202; June 4; Sp. p. 327; Gaz. vol. 179; p. 43.
Electric melting-furnace. W. D. Ludwick. No. 1,038,614; Sept. 17; Gaz. vol. 182; p. 553.
Electric meter. A. A. Kent. No. 1,019,163; Mar. 5; Sp. p. 349; Gaz. vol. 176; p. 55.
Electric meter. J. E. Graybill and P. McJunkin. No. 1,019,456; Mar. 5; Sp. p. 1035; Gaz. vol. 176; p. 153.
Electric meter. R. A. Willson. No. 1,031,500; July 2; Gaz. vol. 180; p. 227.
Electric meter. G. A. Scheeffer. No. 1,032,301; July 9; Gaz. vol. 180; p. 542.
Electric meter. G. A. Scheeffer. No. 1,032,778; July 16; Gaz. vol. 180; p. 750.
Electric meter. M. E. Turner. No. 1,042,847; Oct. 29; Gaz. vol. 183; p. 1204.
Electric meter. J. B. Entz. No. 1,046,750; Dec. 10; Gaz. vol. 185; p. 373.
Electric-meter protective casing. T. E. Murray. No. 1,048,856; Dec. 31; Gaz. vol. 185; p. 1194.
Electric meters, Means for preventing theft of current from. C. F. Bertig. No. 1,041,728; Oct. 22; Gaz. vol. 183; p. 794.
Electric metering apparatus. F. W. Roller. No. 1,038,659; Sept. 17; Gaz. vol. 182; p. 568.
Electric moldings or conduits, Branch block for. G. A. Jordan. No. 1,022,423; Apr. 9; Sp. p. 1427; Gaz. vol. 177; p. 256.
Electric motor. J. D. Forrer. No. 1,013,149; Jan. 2; Sp. p. 117; Gaz. vol. 174; p. 21.
Electric motor. F. W. Casterline. No. 1,017,510; Feb. 13; Sp. p. 2825; Gaz. vol. 175; p. 477.
Electric motor. J. F. and R. E. McKinzie and J. B. Clark. No. 1,020,566; Mar. 19; Sp. p. 3312; Gaz. vol. 176; p. 591.
Electric motor. J. Burke. No. 1,026,904; May 21; Sp. p. 4006; Gaz. vol. 178; p. 688.
Electric motor. L. A. Hawkins. No. 1,027,048; May 21; Sp. p. 4350; Gaz. vol. 178; p. 738.
Electric motor. E. S. Wetmore. No. 1,033,221; July 23; Gaz. vol. 180; p. 938.
Electric motor. E. W. Brown. No. 1,034,069; July 30; Gaz. vol. 180; p. 1250.
Electric motor. E. M. Barnes. No. 1,034,408; Aug. 6; Gaz. vol. 181; p. 3.
Electric motor. H. I. Finch. No. 1,039,110; Sept. 24; Gaz. vol. 182; p. 738.
Electric motor. E. Bretch. No. 1,041,009; Oct. 15; Gaz. vol. 183; p. 518.
Electric motor, Alternating-current. W. N. Dickinson, Jr. No. 1,014,210; Jan. 9; Sp. p. 2475; Gaz. vol. 174; p. 415.
Electric motor and dynamo. F. J. B. Cordeiro. No. 1,019,709; Mar. 5; Sp. p. 1521; Gaz. vol. 176; p. 236.
Electric motor, Direct-current. J. Lecoche. No. 1,031,561; July 2; Gaz. vol. 180; p. 247.
Electric motor for drills, Reciprocating. P. J. Lincoln. No. 1,014,495; Jan. 9; Sp. p. 3087; Gaz. vol. 174; p. 513.
Electric motor or generator. E. A. Halbleib. No. 1,041,782; Oct. 22; Gaz. vol. 183; p. 814.
Electric motor, Variable-speed. J. C. Lincoln. No. 1,043,325; Nov. 5; Gaz. vol. 184; p. 100.
Electric motors, Starter for. V. and V. E. Royle. No. 1,032,708; July 16; Gaz. vol. 180; p. 727.
Electric oscillations, Apparatus for producing rapid. E. von Lepel. No. 1,043,117; Nov. 5; Gaz. vol. 184; p. 24.
Electric oscillations, Method of and apparatus for producing. R. C. Galletti. No. 1,028,204; June 4; Sp. p. 330; Gaz. vol. 179; p. 44.
Electric outlet-boxes, Combined coupling and nipple for. O. Von Humrick. No. 1,035,443; Aug. 13; Gaz. vol. 181; p. 383.
Electric-plug lock. E. E. Rogers. No. 1,017,110; Feb. 13; Sp. p. 1967; Gaz. vol. 175; p. 338.

Electric power, Transmission of. T. T. Kryshtofovich. No. 1,015,196; Jan. 16; Sp. p. 4639; Gaz. vol. 174; p. 782.
Electric protective circuit. O. Jacobson. No. 1,022,848; Apr. 9; Sp. p. 2348; Gaz. vol. 177; p. 401.
Electric pull-socket switch. W. Pfeifer, Jr. No. 1,036,326; Aug. 20; Gaz. vol. 181; p. 724.
Electric push-button switch. J. Brunner. No. 1,039,644; Sept. 24; Gaz. vol. 182; p. 926.
Electric push-switch. E. Anderson. No. 1,030,860; July 2; Gaz. vol. 180; p. 4.
Electric pyrometer, Thermo-. W. S. Peake. No. 1,025,715; May 7; Sp. p. 1342; Gaz. vol. 178; p. 209.
Electric railway-signal. R. P. Kistler. No. 1,032,913; July 16; Gaz. vol. 180; p. 794.
Electric refining-crucible. J. H. Reid. No. 1,026,281; May 14; Sp. p. 2623; Gaz. vol. 178; p. 439.
Electric regulation. J. L. Creveling. No. 1,018,963; Feb. 27; Sp. p. 6046; Gaz. vol. 175; p. 1042.
Electric regulation. J. L. Creveling. No. 1,018,964; Feb. 27; Sp. p. 6048; Gaz. vol. 175; p. 1043.
Electric regulation. J. L. Creveling. No. 1,020,479; Mar. 19; Sp. p. 3111; Gaz. vol. 176; p. 561.
Electric regulation. J. L. Creveling. No. 1,025,455; May 7; Sp. p. 775; Gaz. vol. 178; p. 121.
Electric regulation. J. L. Creveling. No. 1,042,770; Oct. 29; Gaz. vol. 183; p. 1180.
Electric regulator, Automatic. W. L. Bliss. No. 1,025,559; May 7; Sp. p. 1019; Gaz. vol. 178; p. 157.
Electric regulator, Automatic. H. Leitner. No. 1,040,704; Oct. 8; Gaz. vol. 183; p. 385.
Electric resistance unit. E. N. Lightfoot. No. 1,046,816; Dec. 10; Gaz. vol. 185; p. 395.
Electric sad-irons, Cut-out for. W. S. Hadaway, Jr. No. 1,015,954; Jan. 30; Sp. p. 6292; Gaz. vol. 174; p. 1095.
Electric safety device for the flowing out of excess voltage. G. Giles. No. 1,040,927; Oct. 8; Gaz. vol. 183; p. 455.
Electric shunt connection. A. H. Hoyt. No. 1,046,465; Dec. 10; Gaz. vol. 185; p. 271.
Electric signal. C. C. Blake. No. 1,039,247; Sept. 24; Gaz. vol. 182; p. 788.
Electric signal and train control. J. H. Sanor and E. W. Conkell. No. 1,039,324; Sept. 24; Gaz. vol. 182; p. 814.
Electric signals, Electromechanical device for controlling. A. H. Caven. No. 1,032,880; July 16; Gaz. vol. 180; p. 783.
Electric snap-switch. W. V. Steiger. No. 1,020,231; Mar. 12; Sp. p. 2621; Gaz. vol. 176; p. 444.
Electric snap-switch. T. M. Smith. No. 1,036,019; Aug. 20; Gaz. vol. 181; p. 613.
Electric socket and shade-holder and socket-cover, Combined. L. W. Andersen. No. 1,020,736; Mar. 19; Sp. p. 3698; Gaz. vol. 176; p. 648.
Electric solenoid. G. W. Collin. No. 1,033,543; July 23; Gaz. vol. 180; p. 1043.
Electric switch. P. L. Sibole. No. 1,013,569; Jan. 2; Sp. p. 1034; Gaz. vol. 174; p. 166.
Electric switch. J. E. Du Val. No. 1,013,990; Jan. 9; Sp. p. 2016; Gaz. vol. 174; p. 341.
Electric switch. G. A. Burnham. No. 1,015,613; Jan. 23; Sp. p. 5561; Gaz. vol. 174; p. 953.
Electric switch. W. A. Paris. No. 1,015,972; Jan. 30; Sp. p. 6331; Gaz. vol. 174; p. 1101.
Electric switch. J. T. Janette. No. 1,016,071; Jan. 30; Sp. p. 6559; Gaz. vol. 174; p. 1138.
Electric switch. R. P. Brown. No. 1,018,648; Feb. 27; Sp. p. 5398; Gaz. vol. 175; p. 934.
Electric switch. P. Kennedy. No. 1,019,484; Mar. 5; Sp. p. 1114; Gaz. vol. 176; p. 163.
Electric switch. E. T. Lockard. No. 1,021,540; Mar. 26; Sp. p. 5407; Gaz. vol. 176; p. 973.
Electric switch. G. B. Reisbach. No. 1,022,049; Apr. 2; Sp. p. 635; Gaz. vol. 177; p. 101.
Electric switch. L. B. Abbott. No. 1,022,809; Apr. 9; Sp. p. 2267; Gaz. vol. 177; p. 388.
Electric switch. G. H. Taylor. No. 1,023,691; Apr. 16; Sp. p. 4088; Gaz. vol. 177; p. 717.
Electric switch. M. Guett. No. 1,028,350; June 4; Sp. p. 635; Gaz. vol. 179; p. 94.
Electric switch. E. M. Hewlett. No. 1,029,366; June 11; Sp. p. 2823; Gaz. vol. 179; p. 475.
Electric switch. W. S. MacLewee. No. 1,030,102; June 18; Sp. p. 4434; Gaz. vol. 179; p. 766.
Electric switch. A. Jacobson. No. 1,030,185; June 18; Sp. p. 4605; Gaz. vol. 179; p. 793.
Electric switch. J. J. Rawlings and G. Sweetser. No. 1,030,207; June 18; Sp. p. 4656; Gaz. vol. 179; p. 800.
Electric switch. H. Morey, Jr., and F. A. Brogden. No. 1,030,788; June 25; Sp. p. 6199; Gaz. vol. 179; p. 1048.
Electric switch. C. F. Cookson. No. 1,031,324; July 2; Gaz. vol. 180; p. 167.
Electric switch. J. G. Peterson. No. 1,032,767; July 16; Gaz. vol. 180; p. 747.
Electric switch. S. Morris. No. 1,033,340; July 23; Gaz. vol. 180; p. 977.
Electric switch. G. B. Reisbach. No. 1,033,935; July 30; Gaz. vol. 180; p. 1202.
Electric switch. P. Druseidt. No. 1,034,596; Aug. 6; Gaz. vol. 181; p. 64.
Electric switch. F. Kuhn and F. E. Shailor. No. 1,036,126; Aug. 20; Gaz. vol. 181; p. 653.
Electric switch. H. J. Morey and F. A. Brogden. No. 1,037,964; Sept. 10; Gaz. vol. 182; p. 299.
Electric switch. A. F. Wallbillich. No. 1,038,995; Sept. 17; Gaz. vol. 182; p. 685.
Electric switch. J. C. Dunfee. No. 1,042,414; Oct. 29; Gaz. vol. 183; p. 1053.
Electric switch. J. G. Peterson. No. 1,043,718; Nov. 5; Gaz. vol. 184; p. 237.
Electric switch. J. W. Morway. No. 1,043,859; Nov. 12; Gaz. vol. 184; p. 316.
Electric switch. A. G. Fitz Gerald. No. 1,045,692; Nov. 26; Gaz. vol. 184; p. 1014.
Electric switch. A. H. Nero. No. 1,045,733; Nov. 26; Gaz. vol. 184; p. 1028.
Electric switch. J. D. Johnson. No. 1,046,796; Dec. 10; Gaz. vol. 185; p. 389.
Electric switch. R. L. Ramsay. No. 1,046,854; Dec. 10; Gaz. vol. 185; p. 407.
Electric switch. G. C. Knauff. No. 1,047,245; Dec. 17; Gaz. vol. 185; p. 571.
Electric switch. H. R. Bickford. No. 1,047,372; Dec. 17; Gaz. vol. 185; p. 618.
Electric switch. F. Schneider. No. 1,047,575; Dec. 17; Gaz. vol. 185; p. 690.
Electric switch. J. E. Wood. No. 1,048,119; Dec. 24; Gaz. vol. 185; p. 903.
Electric switch. C. E. Hain. No. 1,049,296; Dec. 31; Gaz. vol. 185; p. 1344.
Electric switch, Centripetal. T. J. Downer. No. 1,032,471; July 16; Gaz. vol. 180; p. 645.
Electric switch, Clock-operated. F. P. Cauble. No. 1,026,905; May 21; Sp. p. 4008; Gaz. vol. 178; p. 688.
Electric-switch contact. L. L. Tatum. No. 1,040,455; Oct. 8; Gaz. vol. 183; p. 293.
Electric-switch-contact holder. D. Larson. No. 1,016,833; Feb. 6; Sp. p. 1328; Gaz. vol. 175; p. 205.
Electric-switch-contact holder. D. L. Lindquist and D. Larson. No. 1,016,837; Feb. 6; Sp. p. 1335; Gaz. vol. 175; p. 206.
Electric switch, Distant-control. C. C. Badeau. No. 1,036,417; Aug. 20; Gaz. vol. 181; p. 756.
Electric switch, High-potential. C. C. Badeau. No. 1,029,098; June 11; Sp. p. 2239; Gaz. vol. 179; p. 383.
Electric-switch mounting, Support and housing for. S. Morris. No. 1,035,380; Aug. 13; Gaz. vol. 181; p. 363.
Electric switch, Pressure-closed. T. P. Bacon and W. A. Gwynn. No. 1,015,225; Jan. 16; Sp. p. 4688; Gaz. vol. 174; p. 791.
Electric switch, Push-button. H. Cahen. No. 1,038,284; Sept. 10; Gaz. vol. 182; p. 404.
Electric switch, Quick-action. J. A. Cole. No. 1,045,773; Nov. 26; Gaz. vol. 184; p. 1042.
Electric switch, Time-controlled. C. M. Crook. No. 1,022,532; Apr. 9; Sp. p. 1642; Gaz. vol. 177; p. 292.
Electric switches, Pneumatic blow-out for. E. H. Dewson. No. 1,039,264; Sept. 24; Gaz. vol. 182; p. 794.
Electric switches, Selective time-limit-controlling device for. G. A. Burnham. No. 1,041,716; Oct. 15; Gaz. vol. 183; p. 753.
Electric system, Composite. A. D. T. Libby. No. 1,023,256; Apr. 16; Sp. p. 3235; Gaz. vol. 177; p. 579.
Electric testing apparatus. C. R. Butler. No. 1,046,148; Dec. 3; Gaz. vol. 185; p. 120.
Electric time-switch. W. Wood. No. 1,014,277; Jan. 9; Sp. p. 2634; Gaz. vol. 174; p. 440.
Electric time-switch. S. Chiger. No. 1,031,040; July 2; Gaz. vol. 180; p. 67.
Electric time-switch. W. J. Brown. No. 1,037,818; Sept. 3; Gaz. vol. 182; p. 213.
Electric time-switch. O. P. Noisom and O. P. Lunde. No. 1,045,735; Nov. 26; Gaz. vol. 184; p. 1029.
Electric track-switch. R. R. Miller. No. 1,046,001; Dec. 3; Gaz. vol. 185; p. 69.
Electric transformer and motor-generator, Rotary. J. C. Macfarlane and H. Burge. No. 1,024,410; Apr. 23; Sp. p. 5674; Gaz. vol. 177; p. 988.
Electric-translating-device support. B. A. Stowe. No. 1,040,452; Oct. 8; Gaz. vol. 183; p. 292.
Electric transmission-lines, Suspension-chain for high-pressure. C. M. E. Priestley. No. 1,039,799; Oct. 1; Gaz. vol. 183; p. 44.
Electric transmission systems, Automatic side-tracking sectionalizer for. F. C. Hirdler. No. 1,030,181; June 18; Sp. p. 4578; Gaz. vol. 179; p. 791.
Electric trap. J. Klemovics. No. 1,017,875; Feb. 20; Sp. p. 3643; Gaz. vol. 175; p. 636.
Electric trap. I. Takács. No. 1,023,599; Apr. 16; Sp. p. 3929; Gaz. vol. 177; p. 690.
Electric trap. C. A. Bowen. No. 1,024,969; Apr. 30; Sp. p. 6936; Gaz. vol. 177; p. 1219.
Electric trap. K. Devich. No. 1,034,212; July 30; Gaz. vol. 180; p. 1298.
Electric tugs, Conductor for. G. Meyer. No. 1,034,022; July 30; Gaz. vol. 180; p. 1234.
Electric-wave transmission. J. H. Cuntz. No. 1,026,150; May 14; Sp. p. 2338; Gaz. vol. 178; p. 395.
Electric-wire-feeding apparatus and reel therefor. F. N. Woods. No. 1,018,599; Feb. 27; Sp. p. 5293; Gaz. vol. 175; p. 919.
Electric-wire terminal. G. C. Knauff. No. 1,018,570; Feb. 27; Sp. p. 5234; Gaz. vol. 175; p. 909.

Alphabetical list of inventions—Continued.

Electrical alarm. T. Erickson. No. 1,034,223; July 30; Gaz. vol. 180; p. 1303.
Electrical apparatus. J. M. Barr. No. 1,013,108; Jan. 2; Sp. p. 23; Gaz. vol. 174; p. 7.
Electrical apparatus. W. L. Bliss. No. 1,022,058; Apr. 2; Sp. p. 652; Gaz. vol. 177; p. 104.
Electrical apparatus. A. B. Reynders and J. E. Mateer. No. 1,034,929; Aug. 6; Gaz. vol. 181; p. 176.
Electrical apparatus. T. F. Croker. No. 1,037,447; Sept. 3; Gaz. vol. 182; p. 92.
Electrical apparatus. C. J. E. Waxbom. No. 1,049,011; Dec. 31; Gaz. vol. 185; p. 1247.
Electrical-apparatus hanger. A. Scheible. No. 1,034,518; Aug. 6; Gaz. vol. 181; p. 39.
Electrical apparatus, Protective device for. R. H. Manson. No. 1,025,532; May 7; Sp. p. 954; Gaz. vol. 178; p. 148.
Electrical bonding device. H. C. Williams. No. 1,041,394; Oct. 15; Gaz. vol. 183; p. 647.
Electrical bonding device. H. C. Williams. No. 1,042,304; Oct. 22; Gaz. vol. 183; p. 988.
Electrical cables or wires, Elevating or separating jack for. T. J. Cope. No. 1,027,104; May 21; Sp. p. 4499; Gaz. vol. 178; p. 758.
Electrical-circuit protector. C. A. Rolfe. No. 1,036,723; Aug. 27; Gaz. vol. 181; p. 891.
Electrical-circuit protector. C. A. Rolfe. No. 1,046,860; Dec. 10; Gaz. vol. 185; p. 408.
Electrical-circuit switch. J. M. Smith. No. 1,018,381; Feb. 20; Sp. p. 4738; Gaz. vol. 175; p. 811.
Electrical coil and making the same. C. R. Underhill. No. 1,036,935; Aug. 27; Gaz. vol. 181; p. 960.
Electrical coil and making the same. C. R. Underhill. No. 1,036,936; Aug. 27; Gaz. vol. 181; p. 961.
Electrical coils, Making. C. R. Underhill. No. 1,036,937; Aug. 27; Gaz. vol. 181; p. 961.
Electrical communicating apparatus. T. M. St. John. No. 1,018,940; Feb. 27; Sp. p. 5997; Gaz. vol. 175; p. 1034.
Electrical conductor for lighting purposes. I. Ladoff. No. 1,019,902; Mar. 12; Sp. p. 1919; Gaz. vol. 176; p. 334.
Electrical conductor for lighting purposes. I. Ladoff. No. 1,019,970; Mar. 12; Sp. p. 2054; Gaz. vol. 176; p. 355.
Electrical conductor. High-frequency. R. A. Fessenden. No. 1,039,717; Oct. 1; Gaz. vol. 183; p. 16.
Electrical conductors, Fault location on. H. M. Friendly. No. 1,034,609; Aug. 6; Gaz. vol. 181; p. 68.
Electrical conductors, Grounding device for. F. W. Pardee. No. 1,013,305; Jan. 2; Sp. p. 485; Gaz. vol. 174; p. 76.
Electrical-conduit connector. A. McMurtrie. No. 1,036,296; Aug. 20; Gaz. vol. 181; p. 713.
Electrical conduits, Mechanism for manufacturing. R. C. Rahm. No. 1,017,232; Feb. 13; Sp. p. 2240; Gaz. vol. 175; p. 381.
Electrical connection. J. M. Andersen. No. 1,026,238; May 14; Sp. p. 2537; Gaz. vol. 178; p. 425.
Electrical connections, Lock-snap contact for making. J. O. Heinze, Jr. No. 1,039,392; Sept. 24; Gaz. vol. 182; p. 838.
Electrical connector. J. C. Royce. No. 1,021,377; Mar. 26; Sp. p. 5012; Gaz. vol. 176; p. 915.
Electrical connector. W. O. Kennington. No. 1,039,542; Sept. 24; Gaz. vol. 182; p. 891.
Electrical connector. A. J. Seemann. No. 1,046,227; Dec. 3; Gaz. vol. 185; p. 149.
Electrical contact. E. E. Clement. No. 1,027,240; May 21; Sp. p. 4774; Gaz. vol. 178; p. 803.
Electrical contact. H. F. Stratton. No. 1,045,212; Nov. 26; Gaz. vol. 184; p. 844.
Electrical contact-bank and making same. G. W. Lorimer. No. 1,019,166; Mar. 5; Sp. p. 354; Gaz. vol. 176; p. 56.
Electrical control system. E. E. Yaxley. No. 1,019,112; Mar. 5; Sp. p. 225; Gaz. vol. 176; p. 36.
Electrical controlling mechanism. C. G. Lohay. No. 1,031,457; July 2; Gaz. vol. 180; p. 211.
Electrical coupling. I. H. Parsons. No. 1,014,718; Jan. 16; Sp. p. 3627; Gaz. vol. 174; p. 620.
Electrical coupling. J. L. Hinds and J. J. Dossert. No. 1,019,044; Mar. 5; Sp. p. 69; Gaz. vol. 176; p. 14.
Electrical device. J. Creedon. No. 1,046,985; Dec. 10; Gaz. vol. 185; p. 450.
Electrical device for controlling from a distance any number of movements. P. Viry. No. 1,035,501; Aug. 13; Gaz. vol. 181; p. 403.
Electrical distributing-cabinet. A. E. Blackman. No. 1,036,177; Aug. 20; Gaz. vol. 181; p. 671.
Electrical distribution. R. D. Cutler and M. F. Owens. No. 1,014,049; Jan. 9; Sp. p. 2154; Gaz. vol. 174; p. 360.
Electrical distribution. J. L. Woodbridge. No. 1,033,509; July 23; Gaz. vol. 180; p. 1033.
Electrical distribution. P. C. Hewitt. No. 1,043,104; Nov. 5; Gaz. vol. 184; p. 19.
Electrical distribution system. F. Darlington. No. 1,013,133; Jan. 2; Sp. p. 85; Gaz. vol. 174; p. 15.
Electrical distribution system. P. M. Lincoln. No. 1,013,186; Jan. 2; Sp. p. 188; Gaz. vol. 174; p. 33.
Electrical distribution system. R. Braun. No. 1,013,270; Jan. 2; Sp. p. 394; Gaz. vol. 174; p. 63.
Electrical distribution system. J. L. Woodbridge. No. 1,014,354; Jan. 9; Sp. p. 2827; Gaz. vol. 174; p. 467.
Electrical distribution system. J. L. Woodbridge. No. 1,014,355; Jan. 9; Sp. p. 2830; Gaz. vol. 174; p. 468.
Electrical distribution system. R. C. Hull. No. 1,014,395; Jan. 9; Sp. p. 2908; Gaz. vol. 174; p. 482.
Electrical distribution system. J. S. Peck. No. 1,015,974; Jan. 30; Sp. p. 6338; Gaz. vol. 174; p. 1103.
Electrical distribution system. L. E. Bogen. No. 1,023,500; Apr. 16; Sp. p. 3718; Gaz. vol. 177; p. 658.
Electrical distribution system. J. P. Crouch and J. Etchells. No. 1,029,428; June 11; Sp. p. 2965; Gaz. vol. 179; p. 496.
Electrical distribution system. W. A. Turbayne. No. 1,034,537; Aug. 6; Gaz. vol. 181; p. 45.
Electrical distribution system. P. M. Lincoln. No. 1,039,767; Oct. 1; Gaz. vol. 183; p. 33.
Electrical distribution system. W. L. Bliss. No. 1,040,496; Oct. 8; Gaz. vol. 183; p. 307.
Electrical distribution system. P. C. Hewitt. No. 1,043,766; Nov. 5; Gaz. vol. 184; p. 253.
Electrical distribution system. L. C. Marburg. No. 1,048,985; Dec. 31; Gaz. vol. 185; p. 1238.
Electrical distribution system and apparatus. V. G. Apple. No. 1,036,961; Aug. 27; Gaz. vol. 181; p. 965.
Electrical distribution systems, Emergency means for. J. H. Crosier. No. 1,043,001; Oct. 29; Gaz. vol. 183; p. 1258.
Electrical distribution systems, Instrument set for. V. G. Apple. No. 1,021,293; Mar. 26; Sp. p. 4856; Gaz. vol. 176; p. 886.
Electrical distribution systems, Protecting means for. G. A. Burnham. No. 1,022,355; Apr. 2; Sp. p. 1255; Gaz. vol. 177; p. 202.
Electrical energy, Apparatus for collecting. W. I. Pennock. No. 1,014,719; Jan. 16; Sp. p. 3629; Gaz. vol. 174; p. 621.
Electrical fitting. H. C. Barber. No. 1,016,728; Feb. 6; Sp. p. 1115; Gaz. vol. 175; p. 171.
Electrical fixture. R. D. Buchanan. No. 1,044,134; Nov. 12; Gaz. vol. 184; p. 412.
Electrical furnace with resistances arranged diametrically, Revolving. O. Serpek. No. 1,044,928; Nov. 19; Gaz. vol. 184; p. 717.
Electrical heater. C. P. Madsen. No. 1,014,161; Jan. 9; Sp. p. 2377; Gaz. vol. 174; p. 397.
Electrical ignition systems, Apparatus for. M. Schäfer and R. Wagner. No. 1,047,573; Dec. 17; Gaz. vol. 185; p. 689.
Electrical-impulse-transmitting device. J. Erickson. No. 1,023,200; Apr. 16; Sp. p. 3130; Gaz. vol. 177; p. 560.
Electrical installations from excess voltages, Means for protecting. G. Campos. No. 1,017,634; Feb. 13; Sp. p. 3058; Gaz. vol. 175; p. 516.
Electrical installations from excess voltages, Means for the protection of. G. Campos. No. 1,018,874; Feb. 27; Sp. p. 5863; Gaz. vol. 175; p. 1011.
Electrical installations from excess voltages, Means for the protection of. G. Campos. No. 1,034,197; July 30; Gaz. vol. 180; p. 1293.
Electrical installations from excess voltages, Means for the protection of. G. Campos. No. 1,034,198; July 30; Gaz. vol. 180; p. 1294.
Electrical-instrument coils, Manufacturing. W. Keller. No. 1,041,293; Oct. 15; Gaz. vol. 183; p. 615.
Electrical interrupter device. C. H. North. No. 1,021,881; Apr. 2; Sp. p. 281; Gaz. vol. 177; p. 46.
Electrical make-and-break-circuit device. W. S. Ryan. No. 1,033,473; July 23; Gaz. vol. 180; p. 1021.
Electrical pendant switch. H. D. Gortner. No. 1,029,750; June 18; Sp. p. 3655; Gaz. vol. 179; p. 644.
Electrical pull-socket. D. P. Wolhaupter. No. 1,024,304; Apr. 23; Sp. p. 5449; Gaz. vol. 177; p. 955.
Electrical receptacle. Weatherproof. F. J. Russell. No. 1,036,010; Aug. 20; Gaz. vol. 181; p. 610.
Electrical resistance. C. C. Nuckols and F. Pruyn. No. 1,019,075; Mar. 5; Sp. p. 146; Gaz. vol. 176; p. 24.
Electrical resistance. E. Weintraub. No. 1,019,390; Mar. 5; Sp. p. 903; Gaz. vol. 176; p. 133.
Electrical resistance. J. A. Misland. No 1,036,304; Aug. 20; Gaz. vol. 181; p. 716.
Electrical resistance. E. Thomson. No. 1,039,463; Sept. 24; Gaz. vol. 182; p. 862.
Electrical resistance. C. A. Mudge. No. 1,044,562; Nov. 19; Gaz. vol. 184; p. 589.
Electrical resistance. F. Buchanan. No. 1,047,742; Dec. 17; Gaz. vol. 185; p. 749.
Electrical resistance-furnace. H. Helberger. No. 1,023,309; Apr. 16; Sp. p. 3343; Gaz. vol. 177; p. 597.
Electrical resistance-furnace. O. Serpek. No. 1,044,927; Nov. 19; Gaz. vol. 184; p. 717.
Electrical rosette. W. J. Gagnon. No. 1,039,670; Sept. 24; Gaz. vol. 182; p. 935.
Electrical starting device. J. L. Schureman. No. 1,030,435; June 25; Sp. p. 5179; Gaz. vol. 179; p. 921.
Electrical switch. A. H. Kling and B. D. Horton. No. 1,022,629; Apr. 9; Sp. p. 1849; Gaz. vol. 177; p. 323.
Electrical switch. A. J. Gifford. No. 1,029,676; June 18; Sp. p. 3485; Gaz. vol. 179; p. 617.
Electrical switch. O. S. Walker. No. 1,031,031; July 2; Gaz. vol. 180; p. 64.
Electrical switch. M. D. Greengard. No. 1,033,796; July 30; Gaz. vol. 180; p. 1152.

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Electrical switch. A. P. Nichols. No. 1,047,277; Dec. 17; Gaz. vol. 185; p. 584.
Electrical switch. B. D. Horton. No. 1,047,414; Dec. 17; Gaz. vol. 185; p. 631.
Electrical-switch contact. F. R. McBerty. No. 1,046,823; Dec. 10; Gaz. vol. 185; p. 396.
Electrical switch, Disconnecting. D. C. Hooker. No. 1,039,129; Sept. 24; Gaz. vol. 182; p. 744.
Electrical switches, Wall-base for. W. H. Colgan. No. 1,014,692; Jan. 16; Sp. p. 3573; Gaz. vol. 174; p. 611.
Electrical switching and testing device. M. R. Hutchison. No. 1,048,172; Dec. 24; Gaz. vol. 185; p. 922.
Electrical systems, Protection for. M. O. Troy. No. 1,025,846; May 7; Sp. p. 1610; Gaz. vol. 178; p. 255.
Electrical treatment of vapors or gases, Apparatus for the. W. T. Hoofnagle. No. 1,014,151; Jan. 9; Sp. p. 2360; Gaz. vol. 174; p. 394.
Electrical-wave transmission, Method of and apparatus for. E. E. Clement. No. 1,032,658; July 16; Gaz. vol. 180; p. 708.
Electrically-controlled brake. E. Price. No. 1,022,001; Apr. 2; Sp. p. 539; Gaz. vol. 177; p. 84.
Electrically-heated comb. E. Schwartz. No. 1,033,122; July 23; Gaz. vol. 180; p. 903.
Electrically-heated utensil. A. A. Warner. No. 1,040,595; Oct. 8; Gaz. vol. 183; p. 344.
Electrically-heated utensil. A. A. Warner. No. 1,043,487; Nov. 5; Gaz. vol. 184; p. 159.
Electricity-meter. G. M. Willis. No. 1,039,467; Sept. 24; Gaz. vol. 182; p. 863.
Electrocuting device. J. Balint. No. 1,045,662; Nov. 26; Gaz. vol. 184; p. 1004.
Electrocuting device for rats. A. Ziavin. No. 1,035,672; Aug. 13; Gaz. vol. 181; p. 460.
Electrode. C. A. Ernst. No. 1,019,443; Mar. 5; Sp. p. 1015; Gaz. vol. 176; p. 149.
Electrode. J. Härdén. No. 1,024,257; Apr. 23; Sp. p. 5371; Gaz. vol. 177; p. 941.
Electrode. W. A. Smith. No. 1,032,247; July 9; Gaz. vol. 180; p. 524.
Electrode. E. C. Speiden. No. 1,033,205; July 23; Gaz. vol. 180; p. 932.
Electrode. M. McGary. No. 1,035,215; Aug. 13; Gaz. vol. 181; p. 303.
Electrode. O. Schönherr and J. Hessberger. No. 1,038,208; Sept. 10; Gaz. vol. 182; p. 377.
Electrode and making it, Storage-battery. W. Morrison. No. 1,021,989; Apr. 2; Sp. p. 512; Gaz. vol. 177; p. 81.
Electrode and making the same, Arc-light. J. T. H. Dempster. No. 1,041,752; Oct. 22; Gaz. vol. 183; p. 802.
Electrode, Arc-lamp. G. Egly. No. 1,036,815; Aug. 27; Gaz. vol. 181; p. 921.
Electrode, Arc-light. E. R. Berry. No. 1,017,497; Feb. 13; Sp. p. 2801; Gaz. vol. 175; p. 472.
Electrode, Arc-light. J. Härdén. No. 1,019,464; Mar. 5; Sp. p. 1057; Gaz. vol. 176; p. 155.
Electrode, Arc-light. I. Ladoff. No. 1,025,407; May 7; Sp. p. 663; Gaz. vol. 178; p. 104.
Electrode, Arc-light. E. J. Guay. No. 1,039,522; Sept. 24; Gaz. vol. 182; p. 884.
Electrode, Carbon. C. A. Hansen. No. 1,019,463; Mar. 5; Sp. p. 1057; Gaz. vol. 176; p. 155.
Electrode-collar for electric furnaces. E. R. Taylor. No. 1,028,150; June 4; Sp. p. 156; Gaz. vol. 179; p. 24.
Electrode, Composite. W. A. Smith. No. 1,032,248; July 9; Gaz. vol. 180; p. 525.
Electrode, Composite. E. C. Speiden. No. 1,032,250; July 9; Gaz. vol. 180; p. 525.
Electrode, Composite. W. A. Smith. No. 1,032,514; July 16; Gaz. vol. 180; p. 659.
Electrode, Flaming-arc. E. J. Guay. No. 1,035,119; Aug. 6; Gaz. vol. 181; p. 239.
Electrode for arc-lamps, Cored carbon. R. R. Herbst. No. 1,042,554; Oct. 29; Gaz. vol. 183; p. 1103.
Electrode for electric furnaces, Carbon. B. Redlich. No. 1,048,581; Dec. 31; Gaz. vol. 185; p. 1097.
Electrode for electrical purposes, Carbon. B. Redlich. No. 1,018,003; Feb. 20; Sp. p. 3940; Gaz. vol. 175; p. 681.
Electrode for illuminating purposes. I. Ladoff. No. 1,033,762; July 23; Gaz. vol. 180; p. 1114.
Electrode for producing gas reactions by means of the electric arc. H. Pauling. No. 1,029,885; June 18; Sp. p. 3977; Gaz. vol. 179; p. 692.
Electrode for reversible galvanic batteries. W. Morrison. (Reissue.) No. 13,420; May 14; Sp. p. 3425; Gaz. vol. 178; p. 565.
Electrode for secondary galvanic cells. H. P. R. L. Pörscke and J. A. E. Achenbach. No. 1,032,158; July 9; Gaz. vol. 180; p. 493.
Electrode for welding. W. B. Cleveland and W. E. Huber. No. 1,045,948; Dec. 3; Gaz. vol. 185; p. 52.
Electrode-holder. F. T. Snyder. No. 1,041,689; Oct. 15; Gaz. vol. 183; p. 744.
Electrode. Non-consuming arc-lamp. E. Weintraub. No. 1,027,162; May 21; Sp. p. 4619; Gaz. vol. 178; p. 775.
Electrode or pencil, Arc-light. I. Ladoff. No. 1,022,426; Apr. 9; Sp. p. 1433; Gaz. vol. 177; p. 257.
Electrode or pencil for the arc-light. I. Ladoff. No. 1,017,005; Feb. 13; Sp. p. 1724; Gaz. vol. 175; p. 301.
Electrode, Secondary-battery. H. Garde and A. J. Adams. No. 1,046,288; Dec. 3; Gaz. vol. 185; p. 170.
Electrode, Sectional. A. M. Williamson. No. 1,040,830; Oct. 8; Gaz. vol. 183; p. 425.
Electrodes, Apparatus for graphitizing large. P. L. T. Héroult. No. 1,029,121; June 11; Sp. p. 2282; Gaz. vol. 179; p. 390.
Electrodes, Binding the active material of positive-pole lead. W. Morrison. No. 1,021,993; Apr. 2; Sp. p. 521; Gaz. vol. 177; p. 82.
Electrodes, Binding the active material of positive-pole lead. W. Morrison. No. 1,021,994; Apr. 2; Sp. p. 523; Gaz. vol. 177; p. 82.
Electrodes, Binding the active material of positive-pole lead. W. Morrison. No. 1,021,995; Apr. 2; Sp. p. 524; Gaz. vol. 177; p. 82.
Electrodes, Binding the active material of positive-pole lead. W. Morrison. No. 1,021,996; Apr. 2; Sp. p. 526; Gaz. vol. 177; p. 83.
Electrodes, Graphitizing. P. L. T. Héroult. No. 1,029,122; June 11; Sp. p. 2284; Gaz. vol. 179; p. 390.
Electrodes, Manufacturing. H. Rodman. No. 1,013,445; Jan. 2; Sp. p. 779; Gaz. vol. 174; p. 124.
Electrodes, Manufacturing. R. W. Davis, Jr. No. 1,039,034; Sept. 17; Gaz. vol. 182; p. 696.
Electrodes, Manufacturing metallic-oxid. R. W. Davis, Jr. No. 1,039,071; Sept. 17; Gaz. vol. 182; p. 706.
Electrodes, Method and apparatus for producing and feeding furnace-. E. R. Taylor. No. 1,043,481; Nov. 5; Gaz. vol. 184; p. 157.
Electrodes of secondary batteries, Process to regenerate and improve the structure of lead. E. H. Naylor. No. 1,026,527; May 14; Sp. p. 3161; Gaz. vol. 178; p. 522.
Electrolier. R. B. Benjamin. No. 1,016,317; Feb. 6; Sp. p. 184; Gaz. vol. 175; p. 28.
Electrolier. T. P. Strittmatter. No. 1,024,160; Apr. 23; Sp. p. 5148; Gaz. vol. 177; p. 904.
Electrolier attachment. F. I. Hollingsworth. No. 1,023,649; Apr. 16; Sp. p. 4017; Gaz. vol. 177; p. 705.
Electrolysis, Diaphragm for. O. Dieffenbach. No. 1,039,266; Sept. 24; Gaz. vol. 182; p. 795.
Electrolysis of liquids. J. Billiter. No. 1,037,585; Sept. 3; Gaz. vol. 182; p. 137.
Electrolysis of metallic solutions. F. Lacroix. No. 1,019,969; Mar. 12; Sp. p. 2052; Gaz. vol. 176; p. 355.
Electrolyte. W. H. Lowe. No. 1,043,328; Nov. 5; Gaz. vol. 184; p. 102.
Electrolyte, Means and method for preventing depletion of. T. A. Edison. No. 1,016,874; Feb. 6; Sp. p. 1413; Gaz. vol. 175; p. 219.
Electrolytic apparatus. H. E. T. Haultain. No. 1,018,901; Feb. 27; Sp. p. 5923; Gaz. vol. 175; p. 1020.
Electrolytic apparatus. L. G. Fixen. No. 1,026,857; May 21; Sp. p. 3885; Gaz. vol. 178; p. 670.
Electrolytic apparatus. W. E. Greenawalt. No. 1,043,096; Nov. 5; Gaz. vol. 184; p. 17.
Electrolytic cell. W. H. Davis. No. 1,015,546; Jan. 23; Sp. p. 5416; Gaz. vol. 174; p. 928.
Electrolytic cell. O. H. and A. F. Pieper. No. 1,024,597; Apr. 30; Sp. p. 6165; Gaz. vol. 177; p. 1089.
Electrolytic cell. A. Tommasini. No. 1,035,060; Aug. 6; Gaz. vol. 181; p. 218.
Electrolytic cell. E. A. Allen. No. 1,035,133; Aug. 13; Gaz. vol. 181; p. 273.
Electrolytic cell. F. H. Briggs. No. 1,036,554; Aug. 27; Gaz. vol. 181; p. 835.
Electrolytic cleansing. A. Herrmann. No. 1,041,790; Oct. 22; Gaz. vol. 183; p. 817.
Electrolytic interrupter. J. R. Kelley. No. 1,020,698; Mar. 19; Sp. p. 3611; Gaz. vol. 176; p. 634.
Electrolytic meter. H. S. Hatfield. No. 1,048,156; Dec. 24; Gaz. vol. 185; p. 916.
Electrolytic process. H. H. Bates and F. Adam. No. 1,023,545; Apr. 16; Sp. p. 3805; Gaz. vol. 177; p. 671.
Electrolytic process. R. J. McNitt. No. 1,027,495; May 28; Sp. p. 5287; Gaz. vol. 178; p. 927.
Electrolytic process. C. J. Reed. No. 1,032,623; July 16; Gaz. vol. 180; p. 695.
Electrolytic rectifier. W. Morrison. No. 1,022,695; Apr. 9; Sp. p. 2012; Gaz. vol. 177; p. 348.
Electrolytic rectifier. W. Morrison. No. 1,023,092; Apr. 9; Sp. p. 2849; Gaz. vol. 177; p. 484.
Electrolytic separator and making same. P. Marino. No. 1,020,149; Mar. 12; Sp. p. 2424; Gaz. vol. 176; p. 414.
Electromagnet. C. W. Coleman. No. 1,015,992; Jan. 30; Sp. p. 6374; Gaz. vol. 174; p. 1110.
Electromagnet. A. Quastenberg. No. 1,025,020; Apr. 30; Sp. p. 7034; Gaz. vol. 177; p. 1236.
Electromagnet. E. Price. No. 1,028,385; June 4; Sp. p. 697; Gaz. vol. 179; p. 106.
Electromagnet. N. H. Suren. No. 1,029,150; June 11; Sp. p. 2347; Gaz. vol. 179; p. 400.
Electromagnet. D. L. Lindquist. No. 1,038,610; Sept. 17; Gaz. vol. 182; p. 551.
Electromagnet, Alternating-current. E. Lehr. No. 1,015,968; Jan. 30; Sp. p. 6325; Gaz. vol. 174; p. 1100.
Electromagnet controlling device. H. K. Kouyoumjian. No. 1,042,691; Oct. 29; Gaz. vol. 183; p. 1151.

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Electromagnet for surgical purposes. G. T. Fette. No. 1,033,883; July 30; Gaz. vol. 180; p. 1184.
Electromagnetic apparatus. J. McIntyre. No. 1,029,388; June 11; Sp. p. 2886; Gaz. vol. 179; p. 482.
Electromagnetic device. B. Soldatencow. No. 1,034,397; July 30; Gaz. vol. 180; p. 1364.
Electromagnetic engine. H. J. Ford. No. 1,018,309; Feb. 20; Sp. p. 4584; Gaz. vol. 175; p. 787.
Electromagnetic instrument. W. K. Menns. No. 1,029,880; June 18; Sp. p. 3965; Gaz. vol. 179; p. 690.
Electromagnetic instrument. W. K. Menns. No. 1,035,378; Aug. 13; Gaz. vol. 181; p. 362.
Electromagnetic mechanism, Contact for. R. A. Fessenden. No. 1,048,670; Dec. 31; Gaz. vol. 185; p. 1131.
Electromagnetic receiving apparatus. J. B. M. P. H. R. D'Ivry. No. 1,020,402; Mar. 19; Sp. p. 2952; Gaz. vol. 176; p. 536.
Electromagnetic separator. H. Stein. No. 1,048,223; Dec. 24; Gaz. vol. 185; p. 938.
Electromagnetic switch. J. C. Smith. No. 1,048,366; Dec. 24; Gaz. vol. 185; p. 986.
Electromagnetic-wave receiver. R. A. Fessenden. No. 1,022,539; Apr. 9; Sp. p. 1655; Gaz. vol. 177; p. 294.
Electromagnetic-wave receiver. E. R. Carlson. No. 1,027,238; May 21; Sp. p. 4770; Gaz. vol. 178; p. 802.
Electromagnetic-wave receiver. R. A. Fessenden. No. 1,042,778; Oct. 29; Gaz. vol. 183; p. 1182.
Electromagnetic waves, Receiving. R. A. Fessenden. No. 1,044,637; Nov. 19; Gaz. vol. 184; p. 615.
Electromagnetically-operated switch. G. H. Hill. No. 1,024,896; Apr. 30; Sp. p. 6792; Gaz. vol. 177; p. 1194.
Electromechanical device. G. H. Rowe. No. 1,024,026; Apr. 23; Sp. p. 4832; Gaz. vol. 177; p. 857.
Electromechanical device. G. H. Rowe. No. 1,024,027; Apr. 23; Sp. p. 4834; Gaz. vol. 177; p. 858.
Electromotive device. C. F. Burgess. No. 1,031,038; July 2; Gaz. vol. 180; p. 66.
Electromotive power for starting machinery, &c., Application and distribution of. G. W. Mascord. No. 1,033,257; July 23; Gaz. vol. 180; p. 950.
Electromotor. B. F. Hutches, Jr. No. 1,013,494; Jan. 2; Sp. p. 887; Gaz. vol. 174; p. 141.
Electromotor - controlling system. C. Krämer. No. 1,048,548; Dec. 31; Gaz. vol. 185; p. 1086.
Electroplated, Support for articles to be. G. A. Lutz. No. 1,022,794; Apr. 9; Sp. p. 2233; Gaz. vol. 177; p. 383.
Electroplated, Support for articles to be. G. A. Lutz. No. 1,022,853; Apr. 9; Sp. p. 2357; Gaz. vol. 177; p. 403.
Electroplating. F. J. McElhone. No. 1,018,332; Feb. 20; Sp. p. 4626; Gaz. vol. 175; p. 795.
Electroplating. F. J. McElhone. No. 1,025,760; May 7; Sp. p. 1438; Gaz. vol. 178; p. 226.
Electroplating. A. Leuchter. No. 1,026,628; May 14; Sp. p. 3370; Gaz. vol. 178; p. 555.
Electroplating. J. W. Aylsworth. No. 1,029,965; June 18; Sp. p. 4144; Gaz. vol. 179; p. 718.
Electroplating. M. A. McKee. No. 1,033,604; July 23; Gaz. vol. 180; p. 1065.
Electroplating. L. Daft. No. 1,042,533; Oct. 29; Gaz. vol. 183; p. 1096.
Electroplating aluminium and its alloys. E. and O. Becker. No. 1,014,560; Jan. 9; Sp. p. 3208; Gaz. vol. 174; p. 534.
Electroplating apparatus. T. A. Edison. No. 1,016,875; Feb. 6; Sp. p. 1415; Gaz. vol. 175; p. 219.
Electroplating apparatus. T. R. Canning. No. 1,020,262; Mar. 12; Sp. p. 2667; Gaz. vol. 176; p. 453.
Electroplating apparatus. G. A. Lutz. No. 1,022,487; Apr. 9; Sp. p. 1547; Gaz. vol. 177; p. 278.
Electroplating apparatus. G. A. Lutz. No. 1,022,561; Apr. 9; Sp. p. 1702; Gaz. vol. 177; p. 301.
Electroplating apparatus. M. Reid. No. 1,028,786; June 4; Sp. p. 1541; Gaz. vol. 179; p. 240.
Electroplating apparatus. J. W. Dow. No. 1,034,219; July 30; Gaz. vol. 180; p. 1302.
Electroplating appliance. J. A. Fraser. No. 1,040,923; Oct. 8; Gaz. vol. 183; p. 454.
Electroplating with zinc. A. A. Lemêtre. No. 1,017,981; Feb. 20; Sp. p. 3899; Gaz. vol. 175; p. 674.
Electropneumatic instruments, Sostenuto attachment for. L. E. Morel. No. 1,030,319; June 25; Sp. p. 4926; Gaz. vol. 179; p. 879.
Electrostatic separation. H. M. Sutton and W. L. and E. G. Steele. No. 1,020,063; Mar. 12; Sp. p. 2243; Gaz. vol. 176; p. 387.
Electrostatic separator. H. Sutton, W. L. and E. G. Steele. No. 1,017,701; Feb. 20; Sp. p. 3193; Gaz. vol. 175; p. 575.
Electrotype-molds, Metallizing. H. E. Goldberg. No. 1,037,469; Sept. 3; Gaz. vol. 182; p. 100.
Electrotype-plates, Cooling device for. P. J. Cronin and E. Harrington. No. 1,014,641; Jan. 16; Sp. p. 3459; Gaz. vol. 174; p. 594.
Electrotype-plates, Manufacture of. C. P. Cottrell. No. 1,034,880; Aug. 6; Gaz. vol. 181; p. 162.
Electrotype-shells, Machine for backing up. C. P. Cottrell. No. 1,034,881; Aug. 6; Gaz. vol. 181; p. 162.
Electrotypes, Producing. H. S. Levy. No. 1,017,776; Feb. 20; Sp. p. 3414; Gaz. vol. 175; p. 601.
Electrotyping. M. A. McKee. No. 1,033,435; July 23; Gaz. vol. 180; p. 1008.
Electrotyping, Composition of matter for use in removing grease, &c., from molds used in. G. E. Dunton. No. 1,030,290; June 25; Sp. p. 4851; Gaz. vol. 179; p. 868.
Electrotyping-molds, Composition of matter for removing grease from. G. E. Dunton. No. 1,040,908; Oct. 8; Gaz. vol. 183; p. 449.
Electrowhistle-alarm. C. H. Rettmann. No. 1,017,689; Feb. 20; Sp. p. 3175; Gaz. vol. 175; p. 572.
Elevated carrier. C. S. Sack. No. 1,034,515; Aug. 6; Gaz. vol. 181; p. 39.
Elevating and dumping apparatus, Combined. G. D. Parker. No. 1,045,072; Nov. 19; Gaz. vol. 184; p. 767.
Elevating apparatus, Car or carrier for. F. H. and F. H. Brown. No. 1,037,119; Aug. 27; Gaz. vol. 181; p. 1024.
Elevating attachment. J. W. Ashworth. No. 1,023,981; Apr. 23; Sp. p. 4745; Gaz. vol. 177; p. 841.
Elevating, transporting, and discharging apparatus. T. S. Watson. No. 1,019,867; Mar. 12; Sp. p. 1836; Gaz. vol. 176; p. 322.
Elevating, transporting, and discharging material, Apparatus for. E. B. Miller. No. 1,021,063; Mar. 26; Sp. p. 4369; Gaz. vol. 176; p. 811.
Elevator: *See* Aerial-vessel elevator; Automobile-elevator; Casing-elevator; Contractor's elevator; Cotton-elevator; Fire-fighting elevator; Folding elevator; Fruit-elevator; Grain-elevator; Package-elevator; Plunger-elevator; Pneumatic elevator; Portable elevator; Rope-drive elevator; Safety-elevator; Silo-elevator; Skirt-elevator; Smoke-elevator; Straw-elevator; Sucker-rod elevator; Traction-elevator; Water-elevator.
Elevator. C. D. Seeberger. No. 1,014,856; Jan. 16; Sp. p. 3947; Gaz. vol. 174; p. 668.
Elevator. F. G. Roempler. No. 1,018,781; Feb. 27; Sp. p. 5674; Gaz. vol. 175; p. 981.
Elevator. J. F. Smith. No. 1,020,458; Mar. 19; Sp. p. 3069; Gaz. vol. 176; p. 555.
Elevator. A. S. Dehler. No. 1,020,746; Mar. 19; Sp. p. 3716; Gaz. vol. 176; p. 652.
Elevator. F. Widmann and H. S. Wells. No. 1,021,172; Mar. 26; Sp. p. 4603; Gaz. vol. 176; p. 845.
Elevator. H. H. Johnston. No. 1,022,681; Apr. 9; Sp. p. 1970; Gaz. vol. 177; p. 342.
Elevator. J. T. Clark. No. 1,023,124; Apr. 16; Sp. p. 2942; Gaz. vol. 177; p. 533.
Elevator. W. A. Crichton. No. 1,023,626; Apr. 16; Sp. p. 3981; Gaz. vol. 177; p. 699.
Elevator. M. E. Bloom. No. 1,026,650; May 21; Sp. p. 3439; Gaz. vol. 178; p. 600.
Elevator. M. C. Schwab. No. 1,027,628; May 28; Sp. p. 5548; Gaz. vol. 178; p. 971.
Elevator. C. A. Sturm. No. 1,028,798; June 4; Sp. p. 1567; Gaz. vol. 179; p. 244.
Elevator. C. S. Driscoll. No. 1,032,819; July 16; Gaz. vol. 180; p. 764.
Elevator. C. A. Sturm. No. 1,038,020; Sept. 10; Gaz. vol. 182; p. 317.
Elevator. H. G. Hillman. No. 1,045,844; Dec. 3; Gaz. vol. 185; p. 17.
Elevator. J. Heimer. No. 1,046,386; Dec. 3; Gaz. vol. 185; p. 205.
Elevator and conveyer. P. B. Camp. No. 1,021,760; Apr. 2; Sp. p. 10; Gaz. vol. 177; p. 4.
Elevator and tank construction. J. E. Conzelman. No. 1,045,522; Nov. 26; Gaz. vol. 184; p. 954.
Elevator automatic safety appliance. F. G. Henkle. No. 1,044,174; Nov. 12; Gaz. vol. 184; p. 425.
Elevator automatic stop. P. L. Manlet. No. 1,032,363; July 9; Gaz. vol. 180; p. 564.
Elevator-brake. J. Hill. No. 1,039,284; Sept. 24; Gaz. vol. 182; p. 801.
Elevator-brake. N. W. Gudmundson. No. 1,043,693; Nov. 5; Gaz. vol. 184; p. 228.
Elevator-brake, Combined electrical and mechanical. E. W. Moon. No. 1,047,272; Dec. 17; Gaz. vol. 185; p. 582.
Elevator-bucket. F. G. Lawyer. No. 1,038,608; Sept. 17; Gaz. vol. 182; p. 551.
Elevator cage and scale, Combined. W. M. Cronk, Jr. No. 1,015,874; Jan. 30; Sp. p. 6120; Gaz. vol. 174; p. 1067.
Elevator cars or cages, Guide for. O. D. McClure. No. 1,037,282; Sept. 3; Gaz. vol. 182; p. 34.
Elevator circuit-breakers, Cable-clamp for electric-. A. H. Lowe. No. 1,015,809; Jan. 30; Sp. p. 5981; Gaz. vol. 174; p. 1046.
Elevator cleaner and scraper, Grain-. H. Farrar. No. 1,037,184; Aug. 27; Gaz. vol. 181; p. 1045.
Elevator compound brake, Traction-. A. Sundh. No. 1,043,740; Nov. 5; Gaz. vol. 184; p. 244.
Elevator control. J. D. Ihlder. No. 1,040,546; Oct. 8; Gaz. vol. 183; p. 326.
Elevator-controlling apparatus. W. Baxter, Jr. No. 1,047,151; Dec. 17; Gaz. vol. 185; p. 537.
Elevator-controlling apparatus, Electric-. W. D. Lutz. No. 1,034,719; Aug. 6; Gaz. vol. 181; p. 106.
Elevator device. C. Johnson and A. Sahlen. No. 1,025,873; May 7; Sp. p. 1687; Gaz. vol. 178; p. 263.
Elevator device, Safety. P. Stine. No. 1,013,232; Jan. 2; Sp. p. 315; Gaz. vol. 174; p. 50.

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Elevator device, Safety. R. D. Clark. No. 1,015,137; Jan. 16; Sp. p. 4532; Gaz. vol. 174; p. 764.
Elevator device, Safety. J. Balazs. No. 1,023,711; Apr. 16; Sp. p. 4124; Gaz. vol. 177; p. 724.
Elevator-door controller. E. P. Warren. No. 1,035,761; Aug. 13; Gaz. vol. 181; p. 489.
Elevator-door frame, Sidewalk-. C. G. Janson. No. 1,020,286; Mar. 12; Sp. p. 2722; Gaz. vol. 176; p. 461.
Elevator-door guard. L. Christiansen. No. 1,039,097; Sept. 24; Gaz. vol. 182; p. 734.
Elevator-door lock. L. P. Edes. No. 1,035,174; Aug. 13; Gaz. vol. 181; p. 289.
Elevator emergency-brake. P. C. Slowe. No. 1,021,114; Mar. 26; Sp. p. 4462; Gaz. vol. 176; p. 825.
Elevator-gate. F. E. Simons. No. 1,042,160; Oct. 22; Gaz. vol. 183; p. 941.
Elevator-gate-closing device. E. L. Murray. No. 1,042,949; Oct. 29; Gaz. vol. 183; p. 1239.
Elevator - gate mechanism, Electrically - operable open - at-will. W. H. Kienker. No. 1,037,637; Sept. 3; Gaz. vol. 182; p. 154.
Elevator-guide lubricator. O. T. Snyder. No. 1,017,331; Feb. 13; Sp. p. 2440; Gaz. vol. 175; p. 415.
Elevator-guide lubricator. C. Schenck. No. 1,020,715; Mar. 19; Sp. p. 3645; Gaz. vol. 176; p. 641.
Elevator-guide lubricator. J. H. Hirz. No. 1,021,190; Mar. 26; Sp. p. 4638; Gaz. vol. 176; p. 850.
Elevator - guide - rail lubricator. L. Schultheis. No. 1,027,909; May 28; Sp. p. 6212; Gaz. vol. 178; p. 1066.
Elevator guide-rails, Device for lubricating. J. F. MacIndoe. No. 1,038,165; Sept. 10; Gaz. vol. 182; p. 364.
Elevator-hood. E. O. Droegemeier. No. 1,020,542; Mar. 19; Sp. p. 3253; Gaz. vol. 176; p. 582.
Elevator-indicator. F. A. Boedtcher. No. 1,037,113; Aug. 27; Gaz. vol. 181; p. 1022.
Elevator-lock. G. Lockhart. No. 1,023,159; Apr. 16; Sp. p. 3041; Gaz. vol 177; p. 545.
Elevator-lock. C. H. A. Bahde. No. 1,035,130; Aug. 6; Gaz. vol. 181; p. 242.
Elevator-lock. E. E. Angell. No. 1,041,228; Oct. 15; Gaz. vol. 183; p. 591.
Elevator or conveyer. P. G. Donald and M. H. Matthews. No. 1,039,499; Sept. 24; Gaz. vol. 182; p. 875.
Elevator-safeties, Electric-motor mechanism for operating. A. Magnuson. No. 1,040,555; Oct. 8; Gaz. vol. 183; p. 329.
Elevator-safeties, Spring-motor mechanism and attachment for operating. A. Magnuson. No. 1,034,472; Aug. 6; Gaz. vol. 181; p. 23.
Elevator safety appliance. S. M. Miller. No. 1,017,684; Feb. 20; Sp. p. 3160; Gaz. vol. 175; p. 570.
Elevator safety appliance. G. Roussel. No. 1,023,277; Apr. 16; Sp. p. 3289; Gaz. vol. 177; p. 587.
Elevator safety appliance. G. W. Lathrop and J. W. Powles. No. 1,023,857; Apr. 23; Sp. p. 4464; Gaz. vol. 177; p. 800.
Elevator safety appliance. J. A. Thornhill. No. 1,043,881; Nov. 12; Gaz. vol. 184; p. 324.
Elevator safety attachment. E. Danberry. No. 1,015,726; Jan. 23; Sp. p. 5807; Gaz. vol. 174; p. 990.
Elevator safety - brake. E. J. Mounts. No. 1,040,734; Oct. 8; Gaz. vol. 183; p. 393.
Elevator safety-catch. A. L. Bush. No. 1,031,980; July 9; Gaz. vol. 180; p. 434.
Elevator safety-clutch. J. F. Tighe. No. 1,041,904; Oct. 22; Gaz. vol. 183; p. 856.
Elevator safety device. G. H. Inman. No. 1,016,014; Jan. 30; Sp. p. 6422; Gaz. vol. 174; p. 1118.
Elevator safety device. R. C. Smith. No. 1,016,903; Feb. 6; Sp. p. 1484; Gaz. vol. 175; p. 229.
Elevator safety device. F. Sowinski. No. 1,017,332; Feb. 13; Sp. p. 2441; Gaz. vol. 175; p. 415.
Elevator safety device. C. E. and B. Baumer. No. 1,018,864; Feb. 27; Sp. p. 5844; Gaz. vol. 175; p. 1008.
Elevator safety device. C. J. Cole. No. 1,022,386; Apr. 2; Sp. p. 1316; Gaz. vol. 177; p. 213.
Elevator safety device. F. A. Krenz. No. 1,024,085; Apr. 23; Sp. p. 4960; Gaz. vol. 177; p. 878.
Elevator safety device. J. Tözsér. No. 1,024,300; Apr. 23; Sp. p. 5440; Gaz. vol. 177; p. 953.
Elevator safety device. V. W. Mason. No. 1,024,943; Apr. 30; Sp. p. 6893; Gaz. vol. 177; p. 1211.
Elevator safety device. L. Hamilton. No. 1,025,871; May 7; Sp. p. 1684; Gaz. vol. 178; p. 263.
Elevator safety device. L. Gyorffy. No. 1,026,159; May 14; Sp. p. 2357; Gaz. vol. 178; p. 398.
Elevator safety device. W. H. Graham. No. 1,027,840; May 28; Sp. p. 6005; Gaz. vol. 178; p. 1042.
Elevator safety device. W. H. Grant. No. 1,028,454; June 4; Sp. p. 864; Gaz. vol. 179; p. 129.
Elevator safety device. M. Nesztor. No. 1,028,594; June 4; Sp. p. 1159; Gaz. vol. 179; p. 176.
Elevator safety device. E. S. Matthews. No. 1,032,340; July 9; Gaz. vol. 180; p. 556.
Elevator safety device. H. G. Tessmer. No. 1,039,073; Sept. 17; Gaz. vol. 182; p. 706.
Elevator safety device. J. Hill. No. 1,039,283; Sept. 24; Gaz. vol. 182; p. 801.
Elevator safety device. C. Carson and E. B. Timmerman. No. 1,041,019; Oct. 15; Gaz. vol. 183; p. 521.
Elevator safety device. H. G. Tessmer. No. 1,042,172; Oct. 22; Gaz. vol. 183; p. 945.
Elevator safety device. C. S. Mortenson. No. 1,042,813; Oct. 29; Gaz. vol. 183; p. 1193.
Elevator safety device. S. Kosztura. No. 1,046,609; Dec. 10; Gaz. vol. 185; p. 322.
Elevator safety device, Automatic. P. Hinkel. No. 1,043,833; Nov. 12; Gaz. vol. 184; p. 308.
Elevator safety device, Hydraulic-. T. E. Brown. No. 1,028,807; June 4; Sp. p. 1585; Gaz. vol. 179; p. 248.
Elevator safety device, Passenger-. B. Bates. No. 1,023,611; Apr. 16; Sp. p. 3951; Gaz. vol. 177; p. 694.
Elevator safety mechanism. C. G. Armstrong. No. 1,032,320; July 9; Gaz. vol. 180; p. 549.
Elevator-shaft door. H. B. Pitcher. No. 1,043,138; Nov. 5; Gaz. vol. 184; p. 32.
Elevator-shaft fire-doors. J. E. and T. F. Donnelly. No. 1,021,304; Mar. 26; Sp. p. 4877; Gaz. vol. 176; p. 890.
Elevator-stop. R. W. Wilson. No. 1,016,054; Jan. 30; Sp. p. 6508; Gaz. vol. 174; p. 1132.
Elevator-stopping mechanism, Automatic. T. Larsson. No. 1,033,181; July 23; Gaz. vol. 180; p. 923.
Elevator system, Traction-. D. L. Lindquist. No. 1,047,255; Dec. 17; Gaz. vol. 185; p. 575.
Elevator-way. J. Z. Benedict. No. 1,034,061; July 30; Gaz. vol. 180; p. 1248.
Elevator-well gates, Tripping mechanism for. W. E. Esten. No. 1,041,760; Oct. 22; Gaz. vol. 183; p. 805.
Elevators, Automatic cut-off valve for pneumatic cotton-. H. W. Ligon. No. 1,022,635; Apr. 9; Sp. p. 1863; Gaz. vol. 177; p. 326.
Elevators, Automatic safety-gate for freight-. G. W. Underwood. No. 1,035,759; Aug. 13; Gaz. vol. 181; p. 489.
Elevators, Connecting device for pipe-. F. H. Holmes. No. 1,021,984; Apr. 2; Sp. p. 500; Gaz. vol. 177; p. 80.
Elevators, Foot-guard for. W. S. Ross. No. 1,022,972; Apr. 9; Sp. p. 2609; Gaz. vol. 177; p. 443.
Elevators or hoisting machinery, Limit-switch for. H. W. Forslund. No. 1,042,212; Oct. 22; Gaz. vol. 183; p. 958.
Elevators, Traveling contact for. S. S. Williamson and B. Wilson. No. 1,017,614; Feb. 13; Sp. p. 3011; Gaz. vol. 175; p. 509.
Ellipsograph. A. Gran and J. H. Karlson. No. 1,017,287; Feb. 13; Sp. p. 2346; Gaz. vol. 175; p. 399.
Ellipsograph. T. Ohye. No. 1,022,969; Apr. 9; Sp. p. 2604; Gaz. vol. 177; p. 443.
Ellipsograph. L. Burke. No. 1,026,560; May 14; Sp. p. 3219; Gaz. vol. 178; p. 532.
Ellipsograph. C. Schreiber. No. 1,029,515; June 11; Sp. p. 3131; Gaz. vol. 179; p. 525.
Ellipsograph. C. C. Fine. No. 1,031,780; July 9; Gaz. vol. 180; p. 365.
Ellipsograph. B. A. Ball. No. 1,048,126; Dec. 24; Gaz. vol. 185; p. 906.
Embalming apparatus. L. McCoy. No. 1,031,565; July 2; Gaz. vol. 180; p. 248.
Embankment. E. P. Stratton. No. 1,026,616; May 14; Sp. p. 3337; Gaz. vol. 178; p. 551.
Embankments in water, Structure for use in building. E. S. Johnson. No. 1,048,700; Dec. 31; Gaz. vol. 185; p. 1141.
Embossing device. W. B. Wait. No. 1,046,351; Dec. 3; Gaz. vol. 185; p. 192.
Embossing-die, Multiple. E. D. Sherlock. No. 1,023,765; Apr. 16; Sp. p. 4213; Gaz. vol. 177; p. 740.
Embossing-press attachment, Power-. J. H. Demery. No. 1,032,469; July 16; Gaz. vol. 180; p. 644.
Embroideries, Apparatus for cutting the waste from. A. Tscherne. No. 1,022,610; Apr. 9; Sp. p. 1817; Gaz. vol. 177; p. 318.
Embroideries, Machine for cutting. A. Tscherne. No. 1,024,812; Apr. 30; Sp. p. 6619; Gaz. vol. 177; p. 1165.
Embroideries, Machine for cutting. A. Tscherne. No. 1,025,490; May 7; Sp. p. 863; Gaz. vol. 178; p. 134.
Embroideries, Machine for cutting. A. Tscherne. No. 1,025,491; May 7; Sp. p. 865; Gaz. vol. 178; p. 134.
Embroidering-machine. M. H. Rumpf. No. 1,020,663; Mar. 19; Sp. p. 3527; Gaz. vol. 176; p. 622.
Embroidering-machine. M. Schoenfeld. No. 1,024,867; Apr. 30; Sp. p. 6732; Gaz. vol. 177; p. 1185.
Embroidering-machine. M. Schoenfeld. No. 1,024,911; Apr. 30; Sp. p. 6819; Gaz. vol. 177; p. 1199.
Embroidering-machine. M. Schoenfeld. No. 1,024,912; Apr. 30; Sp. p. 6825; Gaz. vol. 177; p. 1200.
Embroidering-machine. I. A. Antopol. No. 1,031,681; July 9; Gaz. vol. 180; p. 331.
Embroidering-machine. K. Keller. No. 1,031,936; July 9; Gaz. vol. 180; p. 419.
Embroidering-machine. B. Greuter. No. 1,039,929; Oct. 1; Gaz. vol. 183; p. 86.
Embroidering-machine. R. Zahn. No. 1,045,354; Nov. 26; Gaz. vol. 184; p. 893.
Embroidering - machine, Automatic. R. Zahn. No. 1,027,789; May 28; Sp. p. 5881; Gaz. vol. 178; p. 1023.
Embroidering-machine, Crank hemstitch. D. Noble. No. 1,033,055; July 16; Gaz. vol. 180; p. 842.
Embroidering-machine driving and stop mechanism. G. L. Bourquin and R. Loeb. No. 1,034,759; Aug. 6; Gaz. vol. 181; p. 120.

Alphabetical list of inventions—Continued.

Embroidering-machine, Jacquard. R. Zahn. No. 1,048,782; Dec. 31; Gaz. vol. 185; p. 1169.
Embroidering-machine, Multiplex-shuttle. J. Krusi. No. 1,017,421; Feb. 13; Sp. p. 2635; Gaz. vol. 175; p. 446.
Embroidering - machine, Pantograph. R. Zahn. No. 1,013,467; Jan. 2; Sp. p. 825; Gaz. vol. 174; p. 131.
Embroidering - machine protective device. J. A. Groebli. No. 1,040,938; Oct. 8; Gaz. vol. 183; p. 459.
Embroidering-machine safety mechanism. J. A. Groebli. No. 1,037,471; Sept. 3; Gaz. vol. 182; p. 101.
Embroidering-machine, Shuttle. J. Krusi. No. 1,017,422; Feb. 13; Sp. p. 2638; Gaz. vol. 175; p. 446.
Embroidering-machine, Shuttle. R. Zahn. No. 1,020,674; Mar. 19; Sp. p. 3551; Gaz. vol. 176; p. 625.
Embroidering-machine, Shuttle. R. Zahn. No. 1,049,026; Dec. 31; Gaz. vol. 185; p. 1253.
Embroidering-machines, Counterbalancing mechanism for. J. A. Groebli. No. 1,024,892; Apr. 30; Sp. p. 6777; Gaz. vol. 177; p. 1192.
Embroidering-machines, Jacquard mechanism for. R. Zahn. No. 1,013,261; Jan. 2; Sp. p. 371; Gaz. vol. 174; p. 59.
Embroidering-machines, Machine for cutting cards for automatic. J. J. Knecht. No. 1,027,256; May 21; Sp. p. 4796; Gaz. vol. 178; p. 808.
Embroidering-machines. Protective device for. J. A. Groebli. No. 1,045,971; Dec. 3; Gaz. vol. 185; p. 60.
Embroidery-background, Machine for cutting. A. Tscherne. No. 1,025,492; May 7; Sp. p. 868; Gaz. vol. 178; p. 135.
Embroidery foundation, Machine for cutting. A. Tscherne. No. 1,022,611; Apr. 9; Sp. p. 1818; Gaz. vol. 177; p. 318.
Embroidery-hoop. L. Gibbs. No. 1,030,073; June 18; Sp. p. 4375; Gaz. vol. 179; p. 754.
Embroidery-hoop. M. L. Keagy. No. 1,039,141; Sept. 24; Gaz. vol. 182; p. 749.
Embroidery-machine. R. Zahn. No. 1,016,193; Jan. 30; Sp. p. 6776; Gaz. vol. 174; p. 1178.
Embroidery-machine. R. Zahn. No. 1,016,194; Jan. 30; Sp. p. 6778; Gaz. vol. 174; p. 1178.
Embroidery-machine. R. Zahn. No. 1,020,009; Mar. 12; Sp. p. 2137; Gaz. vol. 176; p. 368.
Embroidery-machine. W. N. Parkes. No. 1,027,064; May 21; Sp. p. 4397; Gaz. vol. 178; p. 744.
Embroidery-machine. R. Zahn. No. 1,031,159; July 2; Gaz. vol. 180; p. 110.
Embroidery-machine. E. Friedman. No. 1,043,685; Nov. 5; Gaz. vol. 184; p. 226.
Embroidery-machine, Jacquard. R. Zahn. No. 1,020,010; Mar. 12; Sp. p. 2138; Gaz. vol. 176; p. 368.
Embroidery-machine, Jacquard. R. Zahn. No. 1,040,834; Oct. 8; Gaz. vol. 183; p. 426.
Embroidery-machines, Card-punching device for automatic. J. J. Knecht. No. 1,048,416; Dec. 24; Gaz. vol. 185; p. 1002.
Embroidery, Performing operations incidental to machine-. H. Bosshardt, Sr. No. 1,030,159; June 18; Sp. p. 4533; Gaz. vol. 179; p. 783.
Embroidery-work holder. J. R. Wilkins. No. 1,016,463; Feb. 6; Sp. p. 518; Gaz. vol. 175; p. 80.
Emergency-brake. M. O. Godding. No. 1,019,146; Mar. 5; Sp. p. 314; Gaz. vol. 176; p. 49.
Emergency-brake. W. R. Reno. No. 1,023,682; Apr. 16; Sp. p. 4069; Gaz. vol. 177; p. 714.
Emergency-brake. G. Sorensen. No. 1,047,909; Dec. 17; Gaz. vol. 185; p. 806.
Emergency-brake, Automatic. M. Choumbrot. No. 1,023,623; Apr. 16; Sp. p. 3976; Gaz. vol. 177; p. 698.
Emergency-brake for hoist-engines. H. N. Covell. No. 1,013,131; Jan. 2; Sp. p. 82; Gaz. vol. 174; p. 15.
Emery-wheel dresser. P. W. Lamson. No. 1,036,273; Aug. 20; Gaz. vol. 181; p. 706.
Emery-wheel dresser. F. C. Brandenburg. No. 1,042,761; Oct. 29; Gaz. vol. 183; p. 1176.
Emery-wheel guard. W. B. Martin. No. 1,041,128; Oct. 15; Gaz. vol. 183; p. 558.
Emery-wheels, Tool for dressing. J. Z. Frankofsky. No. 1,041,768; Oct. 22; Gaz. vol. 183; p. 808.
Emulsifier or mixer, Centrifugal. W. Richmond. No. 1,031,666; July 2; Gaz. vol. 180; p. 283.
Emulsifying apparatus. A. B. Gardiner, Jr., and R. M. Shaffer. No. 1,042,781; Oct. 29; Gaz. vol. 183; p. 1183.
Emulsion, Hydrocarbon. R. Wallbaum. No. 1,014,103; Jan. 9; Sp. p. 2270; Gaz. vol. 174; p. 378.
Emulsions with solid substances, Obtaining. W. Jeroch. No. 1,045,982; Dec. 3; Gaz. vol. 185; p. 64.
Enameled metal, Decorating. G. R. Meyercord. No. 1,033,821; July 30; Gaz. vol. 180; p. 1162.
Enameling steel and the like. D. A. York and J. A. Tinker. No. 1,017,360; Feb. 13; Sp. p. 2501; Gaz. vol. 175; p. 424.
Enamels, Producing a filler for white. I. Kreidl. No. 1,024,405; Apr. 23; Sp. p. 5667; Gaz. vol. 177; p. 987.
Enciphering and deciphering messages, Machine for. E. W. Fuller. No. 1,038,556; Sept. 17; Gaz. vol. 182; p. 533.
End-gate. W. A. Rogers. No. 1,013,446; Jan. 2; Sp. p. 780; Gaz. vol. 174; p. 125.
End-gate. R. M. Sturdevant. No. 1,020,726; Mar. 19; Sp. p. 3669; Gaz. vol. 176; p. 645.
End-gate. H. A. Becker. No. 1,036,062; Aug. 20; Gaz. vol. 181; p. 630.
End-gate. D. W. Shaw. No. 1,037,341; Sept. 3; Gaz. vol. 182; p. 54.
End-gate. R. A. Holtfrerich. No. 1,041,794; Oct. 22; Gaz. vol. 183; p. 818.
End-gate. J. W. Hilt. No. 1,046,592; Dec. 10; Gaz. vol. 185; p. 315.
End-gate fastener. P. E. Lane. No. 1,041,819; Oct. 22; Gaz. vol. 183; p. 827.
End-gate fastening. T. T. Smith. No. 1,018,453; Feb. 27; Sp. p. 4914; Gaz. vol. 175; p. 868.
End-gate fastening, Wagon-. J. W. Schroeder. No. 1,040,779; Oct. 8; Gaz. vol. 183; p. 408.
End-gate-rod lock. J. Nohava. No. 1,030,117; June 18; Sp. p. 4458; Gaz. vol. 179; p. 770.
End-gate, Wagon. C. Skidmore. No. 1,020,320; Mar. 12; Sp. p. 2779; Gaz. vol. 176; p. 471.
End-gate, Wagon. C. Skidmore. No. 1,025,024; Apr. 30; Sp. p. 7042; Gaz. vol. 177; p. 1237.
End-gate, Wagon. W. E. Hinze. No. 1,025,979; May 14; Sp. p. 1939; Gaz. vol. 178; p. 334.
End-gate, Wagon. R. G. Ping. No. 1,035,901; Aug. 20; Gaz. vol. 181; p. 576.
End-gate, Wagon. C. I. Johnson. No. 1,037,628; Sept. 3; Gaz. vol. 182; p. 151.
End-gate, Wagon. S. J. Tilley. No. 1,038,989; Sept. 17; Gaz. vol. 182; p. 683.
End-play device. R. C. Newhouse. No. 1,019.074; Mar. 5; Sp. p. 144; Gaz. vol. 176; p. 24.
End-play device. C. A. Fischer. No. 1,023,245; Apr. 16; Sp. p. 3213; Gaz. vol. 177; p. 575.
Endothermic compounds from their components, Producing. W. Siebert. No. 1,033,126; July 23; Gaz. vol. 180; p. 904.
Energy by electromagnetic waves, Means for the transmission of. R. A. Fessenden. No. 1,015,881; Jan. 30; Sp. p. 6133; Gaz. vol. 174; p. 1070.
Engine: *See* Air and gas engine; Atmospheric engine; Beating-engine; Blowing-engine; Caloric engine; Carbon - dioxid engine; Centripetal engine; Combustion-engine; Compound engine; Compressed - air engine; Dental engine; Double-cylinder engine; Duplex-piston engine; Electromagnetic engine; Expansion-engine; Explosion-engine; Explosive-engine; Fire-engine; Fluid-pressure engine; Gas-engine; Gasolene-engine; Hoisting-engine; Hot-air engine; Hydrocarbon-engine; Internal-combustion engine; Internal-combustion and compressed-air engine; Internal-combustion rotary engine; Locomotive-engine; Logging-engine; Oil-engine; Oscillating engine; Oscillating-cylinder engine; Pneumatic engine; Power-engine; Pile-driving engine; Reciprocating engine; Reversible two-cycle engine; Road-engine; Rock-drill engine; Rope-engine; Rotary engine; Rotary explosion-engine; Rotary explosive-engine; Rotary gas-engine; Rotary gasolene-engine; Rotary internal-combustion engine; Rotary steam-engine; Rotating-cylinder engine; Rubbing-machine engine; Steam-engine; Traction-engine; Turbine-engine; Turbo-displacement engine; Two-cycle engine; Valveless engine; Vapor-engine; Vertical engine; Wave-engine; Winding-engine.
Engine. E. Taylor. No. 1,013,907; Jan. 9; Sp. p. 1825; Gaz. vol. 174; p. 312.
Engine. W. F. M. Goss. No. 1,015,016; Jan. 16; Sp. p. 4299; Gaz. vol. 174; p. 723.
Engine. W. R. McKeen, Jr. No. 1,017,008; Feb. 13; Sp. p. 1727; Gaz. vol. 175; p. 301.
Engine. S. A. Miles. No. 1,023,670; Apr. 16; Sp. p. 4055; Gaz. vol. 177; p. 711.
Engine. A. Tosco and A. Camino. No. 1,024,379; Apr. 23; Sp. p. 5573; Gaz. vol. 177; p. 977.
Engine. J. G. Crowdes. No. 1,024,440; Apr. 23; Sp. p. 5729; Gaz. vol. 177; p. 997.
Engine. T. J. Ashby. No. 1,026,424; May 14; Sp. p. 2944; Gaz. vol. 178; p. 488.
Engine. T. S. Miller. No. 1,028,127; June 4; Sp. p. 70; Gaz. vol. 179; p. 15.
Engine. C. H. Pierce. No. 1,030,679; June 25; Sp. p. 5903; Gaz. vol. 179; p. 1009.
Engine. J. H. Pierce. No. 1,034,732; Aug. 6; Gaz. vol. 181; p. 110.
Engine. G. A. Lowry. No. 1,038,612; Sept. 17; Gaz. vol. 182; p. 552.
Engine. J. W. Moore and W. A. Browne. No. 1,038,780; Sept. 17; Gaz. vol. 182; p. 612.
Engine. F. W. Lake. No. 1,040,700; Oct. 8; Gaz. vol. 183; p. 383.
Engine. E. Dembowsky. No. 1,041,606; Oct. 15; Gaz. vol. 183; p. 715.
Engine. E. Fisher, Jr. No. 1,041,764; Oct. 22; Gaz. vol. 183; p. 806.
Engine. J. M. Brown. No. 1,042,883; Oct. 29; Gaz. vol. 183; p. 1218.
Engine. J. G. Snyder. No. 1,043,546; Nov. 5; Gaz. vol. 184; p. 180.
Engine. E. E. Proulx. No. 1,046,220; Dec. 3; Gaz. vol. 185; p. 146.
Engine and heater, Combined steam-. A. B. Wallem. No. 1,042,729; Oct. 29; Gaz. vol. 183; p. 1165.
Engine attachment, Gas-. L. J. Bordo. No. 1,044,125; Nov. 12; Gaz. vol. 184; p. 409.
Engine attachment, Internal-combustion-. W. H. Tatman. No. 1,043,643; Nov. 5; Gaz. vol. 184; p. 212.

Engine-base, Detachable. J. H. Kinsting. No. 1,034,250; July 30; Gaz. vol. 180; p. 1313.
Engine base, Gas-. E. J. Gulick. No. 1,031,785; July 9; Gaz. vol. 180; p. 367.
Engine construction. J. T. Rydberg. No. 1,038,970; Sept. 17; Gaz. vol. 182; p. 676.
Engine control, Automatic. J. J. Ripper and J. Bornander. No. 1,037,661; Sept. 3; Gaz. vol. 182; p. 163.
Engine-controlling device, Explosive-. G. H. Watt. No. 1,013,245; Jan. 2; Sp. p. 341; Gaz. vol. 174; p. 54.
Engine-controlling means, Combustion-. W. N. Park. No. 1,041,339; Oct. 15; Gaz. vol. 183; p. 629.
Engine-controlling means, Explosive-. L. G. Wolfe. No. 1,017,359; Feb. 13; Sp. p. 2500; Gaz. vol. 175; p. 424.
Engine-cooling device. J. Desmond. No. 1,025,251; May 7; Sp. p. 319; Gaz. vol. 178; p. 51.
Engine-cooling device. Y. Newman. No. 1,043,344; Nov. 5; Gaz. vol. 184; p. 107.
Engine-cooling device, Gas-. C. A. Myers. No. 1,045,061; Nov. 19; Gaz. vol. 184; p. 763.
Engine-cooling means, Gas-. C. C. Jones. No. 1,028,359; June 4; Sp. p. 650; Gaz. vol. 179; p. 97.
Engine-cooling means, Gasolene-. T. J. Loftus. No. 1,040,709; Oct. 8; Gaz. vol. 183; p. 386.
Engine-cooling system, Explosive-. T. C. Luce. No. 1,044,065; Nov. 12; Gaz. vol. 184; p. 389.
Engine-coupling. R. E. Coffin. No. 1,025,785; May 7; Sp. p. 1481; Gaz. vol. 178; p. 234.
Engine crank device, Internal-combustion-. G. C. Cornell. No. 1,037,133; Aug. 27; Gaz. vol. 181; p. 1028.
Engine crank-shaft, Steam-. H. A. Ivatt. No. 1,016,504; Feb. 6; Sp. p. 617; Gaz. vol. 175; p. 94.
Engine-cranking device, Explosive-. C. E. Best. No. 1,040,495; Oct. 8; Gaz. vol. 183; p. 306.
Engine-cranking device, Internal-combustion-. M. G. Worth. No. 1,024,241; Apr. 23; Sp. p. 5337; Gaz. vol. 177; p. 935.
Engine cylinder, Gas-. E. T. Adams. No. 1,045,766; Nov. 26; Gaz. vol. 184; p. 1039.
Engine cylinder, Internal-combustion-. H. S. Simpson. No. 1,035,391; Aug. 13; Gaz. vol. 181; p. 366.
Engine-cylinders, Compound for removing carbon from. D. E. Cripe. No. 1,022,466; Apr. 9; Sp. p. 1509; Gaz. vol. 177; p. 271.
Engine cylinders, Device for cleaning explosive-. A. De Clairmont. No. 1,040,147; Oct. 1; Gaz. vol. 183; p. 160.
Engine-cylinders, Means for removing carbon from. E. S. Michener. No. 1,022,040; Apr. 2; Sp. p. 616; Gaz. vol. 177; p. 97.
Engine-driving mechanism, Traction-. W. S. Morton. No. 1,042,714; Oct. 29; Gaz. vol. 183; p. 1160.
Engine exhauster, Gas-. A. T. and A. R. Titus. No. 1,038,685; Sept. 17; Gaz. vol. 182; p. 578.
Engine fire-pot. T. Stockmann. No. 1,017,336; Feb. 13; Sp. p. 2450; Gaz. vol. 175; p. 416.
Engine gearing, Housing for traction-. E. M. Wheelock. No. 1,024,430; Apr. 23; Sp. p. 5709; Gaz. vol. 177; p. 994.
Engine gearing, Traction-. E. M. Wheelock. No. 1,013,977; Jan. 9; Sp. p. 1989; Gaz. vol. 174; p. 336.
Engine-houses, Smoke and gas collector for. H. Clasen. No. 1,028,437; June 4; Sp. p. 824; Gaz. vol. 179; p. 124.
Engine igniting apparatus, Gas-. E. Thomson. No. 1,021,219; Mar. 26; Sp. p. 4701; Gaz. vol. 176; p. 860.
Engine igniting mechanism, Explosive-. A. Winton and H. B. Anderson. No. 1,021,031; Mar. 26; Sp. p. 4302; Gaz. vol. 176; p. 799.
Engine ignition apparatus, Explosive-. D. E. Collard. No. 1,035,318; Aug. 13; Gaz. vol. 181; p. 340.
Engine ignition apparatus, Large-internal-combustion-. G. Honold. No. 1,047,891; Dec. 17; Gaz. vol. 185; p. 800.
Engine ignition device, Explosive-. C. T. Mason. No. 1,030,243; June 18; Sp. p. 4726; Gaz. vol. 179; p. 813.
Engine ignition device, Gas-. L. J. Le Pontois. No. 1,045,859; Dec. 3; Gaz. vol. 185; p. 22.
Engine ignition system, Gas-. W. E. Dow. No. 1,030,288; June 25; Sp. p. 4847; Gaz. vol. 179; p. 867.
Engine indicator, Steam, gas, and other. J. N. Wallace. No. 1,030,216; June 18; Sp. p. 4671; Gaz. vol. 179; p. 803.
Engine-lathe attachment. H. Newmann. No. 1,031,956; July 9; Gaz. vol. 180; p. 427.
Engine lower crank-case, Combustion-. W. H. Goldstine. No. 1,022,413; Apr. 9; Sp. p. 1375; Gaz. vol. 177; p. 252.
Engine-lubricating apparatus. J. Horton and T. W. Keen. No. 1,031,715; July 9; Gaz. vol. 180; p. 343.
Engine-lubricating device. D. Morehouse. No. 1,013,678; Jan. 2; Sp. p. 1303; Gaz. vol. 174; p. 204.
Engine-lubricating system, Explosion-. C. H. Taylor and H. E. Coffin. No. 1,026,287; May 14; Sp. p. 2637; Gaz. vol. 178; p. 441.
Engine lubricating system, Internal-combustion and other. W. J. Wright. No. 1,020,007; Mar. 12; Sp. p. 2133; Gaz. vol. 176; p. 367.
Engine lubricator, Explosion-. E. W. Goodnow. No. 1,037,239; Sept. 3; Gaz. vol. 182; p. 21.
Engine lubricator, Steam-. R. C. Holman and G. I. Theile. No. 1,018,112; Feb. 20; Sp. p. 4182; Gaz. vol. 175; p. 720.
Engine lubricator, Steam-. D. Morehouse. No. 1,026,526; May 14; Sp. p. 3159; Gaz. vol. 178; p. 522.
Engine-muffler. C. J. Knopp. No. 1,044,397; Nov. 12; Gaz. vol. 184; p. 502.
Engine-operating means, Oil-. L. Wygodsky. No. 1,015,115; Jan. 16; Sp. p. 4490; Gaz. vol. 174; p. 756.
Engine piston, Expansion-. R. S. Moore. No. 1,020,836; Mar. 19; Sp. p. 3899; Gaz. vol. 176; p. 682.
Engine primer, Gasolene-. E. Silver. No. 1,030,931; July 2; Gaz. vol. 180; p. 27.
Engine priming-cup, Gas-. C. W. Beck. No. 1,040,996; Oct. 15; Gaz. vol. 183; p. 513.
Engine priming-cup, Gasolene-. J. C. Beck. No. 1,015,868; Jan. 30; Sp. p. 6106; Gaz. vol. 174; p. 1065.
Engine priming mechanism, Explosive-. J. H. Durno. No. 1,042,415; Oct. 29; Gaz. vol. 183; p. 1054.
Engine regulator, Explosion-. C. C. Stedman. No. 1,027,778; May 28; Sp. p. 5863; Gaz. vol. 178; p. 1020.
Engine reverse-gear, Steam-. F. J. Cole. No. 1,023,995; Apr. 23; Sp. p. 4773; Gaz. vol. 177; p. 847.
Engine-reversing device, Multicylinder-internal-combustion-. G. H. W. Uren. No. 1,017,350; Feb. 13; Sp. p. 2478; Gaz. vol. 175; p. 420.
Engine-reversing gear, Multiple-cylinder-combustion-. J. Vollmer. No. 1,042,989; Oct. 29; Gaz. vol. 183; p. 1253.
Engine-reversing mechanism, Explosive-. J. B. Moore. No. 1,024,945; Apr. 30; Sp. p. 6896; Gaz. vol. 177; p. 1211.
Engine-reversing mechanism, Internal-combustion-. F. Henninger. No. 1,013,491; Jan. 2; Sp. p. 880; Gaz. vol. 174; p. 141.
Engine-room return-signal. V. H. Street. No. 1,025,488; May 7; Sp. p. 860; Gaz. vol. 178; p. 133.
Engine safety cranking attachment, Explosive-. F. Brayer and S. L. Long. No. 1,031,166; July 2; Gaz. vol. 180; p. 112.
Engine safety cranking device, Explosive-. J. L. Beck. No. 1,027,798; May 28; Sp. p. 5911; Gaz. vol. 178; p. 1027.
Engine safety cranking device, Explosive-. J. L. Beck. No. 1,027,799; May 28; Sp. p. 5914; Gaz. vol. 178; p. 1027.
Engine safety cranking device, Explosive-. J. L. Beck. No. 1,046,947; Dec. 10; Gaz. vol. 185; p. 438.
Engine safety starting-crank, Explosive-. J. T. Weinzierl and J. Sturtevant. No. 1,040,598; Oct. 8; Gaz. vol. 183; p. 345.
Engine safety starting device, Internal-combustion-. J. M. Rhett. No. 1,039,321; Sept. 24; Gaz. vol. 182; p. 813.
Engine safety starting means, Explosive-. W. R. Webster. No. 1,044,315; Nov. 12; Gaz. vol. 184; p. 474.
Engine silencer, Gas-. H. P. Maxim. No. 1,015,698; Jan. 23; Sp. p. 5758; Gaz. vol. 174; p. 981.
Engine silencer, Internal-combustion-. M. F. Graydon. No. 1,017,536; Feb. 13; Sp. p. 2876; Gaz. vol. 175; p. 485.
Engine spark-plug, Internal-combustion-. V. G. Apple. No. 1,025,232; May 7; Sp. p. 268; Gaz. vol. 178; p. 45.
Engine spark-regulator, Explosion-. C. H. Newman. No. 1,029,026; June 11; Sp. p. 2085; Gaz. vol. 179; p. 359.
Engine sparking apparatus, Internal-combustion-. H. C. Clay. No. 1,015,005; Jan. 16; Sp. p. 4279; Gaz. vol. 174; p. 719.
Engine sparking device, Internal-combustion-. C. C. Williams. No. 1,029,903; June 18; Sp. p. 4012; Gaz. vol. 179; p. 697.
Engine sparking mechanism, Internal-combustion-. L. T. Rhoades. No. 1,034,835; Aug. 6; Gaz. vol. 181; p. 146.
Engine sparking-regulator, Internal-combustion-. G. W. Hutchinson. No. 1,039,407; Sept. 24; Gaz. vol. 182; p. 843.
Engine-starter. L. L. McLarty. No. 1,015,817; Jan. 30; Sp. p. 5993; Gaz. vol. 174; p. 1048.
Engine-starter. G. S. Sutliff. No. 1,021,493; Mar. 26; Sp. p. 5308; Gaz. vol. 176; p. 957.
Engine-starter. W. D. Everly. No. 1,024,000; Apr. 23; Sp. p. 4780; Gaz. vol. 177; p. 848.
Engine-starter. W. H. Williams. No. 1,024,712; Apr. 30; Sp. p. 6411; Gaz. vol. 177; p. 1129.
Engine-starter. E. Guthrie. No. 1,027,648; May 28; Sp. p. 5599; Gaz. vol. 178; p. 978.
Engine-starter. J. O. Roberts. No. 1,030,430; June 25; Sp. p. 5168; Gaz. vol. 179; p. 919.
Engine-starter. W. L. Stuller. No. 1,032,516; July 16; Gaz. vol. 180; p. 659.
Engine-starter. E. A. Bostrom. No. 1,032,584; July 16; Gaz. vol. 180; p. 682.
Engine-starter. J. C. Henderson. No. 1,038,132; Sept. 10; Gaz. vol. 182; p. 352.
Engine-starter. E. M. Card. No. 1,038,286; Sept. 10; Gaz. vol. 182; p. 405.
Engine-starter. J. A. Germonprez. No. 1,039,118; Sept. 24; Gaz. vol. 182; p. 741.
Engine-starter. F. Briggs. No. 1,039,357; Sept. 24; Gaz. vol. 182; p. 825.
Engine-starter, Automobile. G. H. Kelley. No. 1,035,091; Aug. 6; Gaz. vol. 181; p. 229.
Engine starter, Explosive-. C. H. Freeman. No. 1,036,213; Aug. 20; Gaz. vol. 181; p. 685.

Alphabetical list of inventions—Continued.

Engine starter, Explosive-. W. E. Bock. No. 1,043,392; Nov. 5; Gaz. vol. 184; p. 124.
Engine starter, Explosive-. W. E. Bock. No. 1,043,393; Nov. 5; Gaz. vol. 184; p. 124.
Engine starter, Explosive-. J. E. Galtra. No. 1,045,966; Dec. 3; Gaz. vol. 185; p. 59.
Engine-starter for automobiles. W. A. Sharpe. No. 1,046,030; Dec. 3; Gaz. vol. 185; p. 79.
Engine starter, Gas-. J. J. O'Leary. No. 1,017,453; Feb. 13; Sp. p. 2719; Gaz. vol. 175; p. 457.
Engine starter, Gas-. G. E. Miller. No. 1,034,274; July 30; Gaz. vol. 180; p. 1322.
Engine starter, Gas-. P. English. No. 1,044,366; Nov. 12; Gaz. vol. 184; p. 491.
Engine starter, Gas-. C. F. Jenkins. No. 1,047,527; Dec. 17; Gaz. vol. 185; p. 672.
Engine starter, Internal-combustion-. F. G. McKlveen and L. W. Naylor. No. 1,017,681; Feb. 20; Sp. p. 3154; Gaz. vol. 175; p. 569.
Engine starter, Internal-combustion-. G. G. F. Boswell. No. 1,022,820; Apr. 9; Sp. p. 2291; Gaz. vol. 177; p. 391.
Engine starter, Internal-combustion-. G. B. Sinclair. No. 1,023,279; Apr. 16; Sp. p. 3292; Gaz. vol. 177; p. 588.
Engine starter, Internal-combustion-. C. A. Kinney. No. 1,025,810; May 7; Sp. p. 1536; Gaz. vol. 178; p. 243.
Engine starter, Internal-combustion-. C. Van Tubbergan and P. Westrate. No. 1,027,087; May 21; Sp. p. 4463; Gaz. vol. 178; p. 752.
Engine starter, Internal-combustion-. L. V. Moulton and P. A. Jones. (Reissue.) No. 13,450; July 30; Gaz. vol. 180; p. 1368.
Engine starter, Internal-combustion-. B. Volkmar. No. 1,037,376; Sept. 3; Gaz. vol. 182; p. 67.
Engine starter, Internal-combustion-. W. J. Presley. No. 1,044,081; Nov. 12; Gaz. vol. 184; p. 394.
Engine-starter, Pneumatic. J. A. Heany. No. 1,029,994; June 18; Sp. p. 4193; Gaz. vol. 179; p. 727.
Engine-starters, Distributer for automobile. C. A. Wulf. No. 1,048,021; Dec. 24; Gaz. vol. 185; p. 870.
Engine-starting apparatus. E. A. Halbleib. No. 1,017,538; Feb. 13; Sp. p. 2879; Gaz. vol. 175; p. 486.
Engine-starting apparatus. E. A. Halbleib. No. 1,034,230; July 30; Gaz. vol. 180; p. 1306.
Engine-starting apparatus, Internal-combustion-. G. Honold. No. 1,043,595; Nov. 5; Gaz. vol. 184; p. 196.
Engine starting crank, Explosive-. H. H. Kolb. No. 1,045,041; Nov. 19; Gaz. vol. 184; p. 756.
Engine-starting crank, Hydrocarbon-. E. J. Patton. No. 1,026,528; May 14; Sp. p. 3162; Gaz. vol. 178; p. 522.
Engine-starting crank, Hydrocarbon-. A. M. Walstrom. No. 1,034,543; Aug. 6; Gaz. vol. 181; p. 47.
Engine-starting device. C. Barbey. No. 1,013,723; Jan. 2; Sp. p. 1394; Gaz. vol. 174; p. 219.
Engine-starting device. J. A. Walker. No. 1,025,344; May 7; Sp. p. 527; Gaz. vol. 178; p. 82.
Engine-starting device. C. A. Milne, W. Taylor, and M. R. Churchill. No. 1,032,694; July 16; Gaz. vol. 180; p. 722.
Engine-starting device. J. W. Tudor. No. 1,034,325; July 30; Gaz. vol. 180; p. 1338.
Engine-starting device. J. O. Roberts and J. W. Nunn. No. 1,037,663; Sept. 3; Gaz. vol. 182; p. 164.
Engine-starting device, Auto-. A. F. Harrison. No. 1,042,672; Oct. 29; Gaz. vol. 183; p. 1145.
Engine-starting device, Explosion-. C. C. Roth. No. 1,024,103; Apr. 23; Sp. p. 5008; Gaz. vol. 177; p. 885.
Engine-starting device, Explosion-. W. W. Boa and K. Schoenbauer. No. 1,035,150; Aug. 13; Gaz. vol. 181; p. 279.
Engine-starting device, Explosion-. F. C. Hayes. No. 1,039,127; Sept. 24; Gaz. vol. 182; p. 743.
Engine-starting device, Explosion-. W. E. Blair. No. 1,044,479; Nov. 19; Gaz. vol. 184; p. 560.
Engine-starting device, Explosive-. F. Reynolds. No. 1,016,522; Feb. 6; Sp. p. 666; Gaz. vol. 175; p. 100.
Engine-starting device, Explosive-. E. M. Wood. No. 1,021,812; Apr. 2; Sp. p. 115; Gaz. vol. 177; p. 23.
Engine-starting device, Explosive-. W. C. Hartmann. No. 1,026,314; May 14; Sp. p. 2698; Gaz. vol. 178; p. 451.
Engine-starting device, Explosive-. E. V. Swern. No. 1,026,374; May 14; Sp. p. 2845; Gaz. vol. 178; p. 471.
Engine-starting device, Explosive-. J. A. Brown and C. G. Bosch. No. 1,031,908; July 9; Gaz. vol. 180; p. 410.
Engine-starting device, Explosive-. W. J. Foster. No. 1,034,778; Aug. 6; Gaz. vol. 181; p. 127.
Engine-starting device, Explosive-. W. S. Regur. No. 1,035,232; Aug. 13; Gaz. vol. 181; p. 308.
Engine-starting device, Explosive-. P. W. Kane. No. 1,035,356; Aug. 13; Gaz. vol. 181; p. 354.
Engine-starting device, Explosive-. M. E. Cole. No. 1,043,399; Nov. 5; Gaz. vol. 184; p. 126.
Engine-starting device, Explosive-. C. M. Lee. No. 1,044,546; Nov. 19; Gaz. vol. 184; p. 583.
Engine-starting device, Explosive-. L. C. Van Riper. No. 1,044,952; Nov. 19; Gaz. vol. 184; p. 724.
Engine-starting device, Explosive-. W. L. McKissick. No. 1,045,422; Nov. 26; Gaz. vol. 184; p. 917.
Engine-starting device, Explosive-. L. C. Van Riper. No. 1,046,407; Dec. 3; Gaz. vol. 185; p. 213.
Engine-starting device, Explosive-. H. L. Meeder. No. 1,049,122; Dec. 31; Gaz. vol. 185; p. 1286.
Engine-starting device, Gas-. C. E. Dunham. No. 1,022,538; Apr. 9; Sp. p. 1652; Gaz. vol. 177; p. 294.
Engine-starting device, Gas-. W. A. Hansen. No. 1,027,649; May 28; Sp. p. 5600; Gaz. vol. 178; p. 978.
Engine-starting device, Gas-. R. C. Hiller and D. W. Wade. No. 1,037,622; Sept. 3; Gaz. vol. 182; p. 149.
Engine-starting device, Gas-. E. Williams. No. 1,039,237; Sept. 24; Gaz. vol. 182; p. 784.
Engine-starting device, Internal-combustion-. A. P. Hinsky. No. 1,013,293; Jan. 2; Sp. p. 462; Gaz. vol. 174; p. 71.
Engine-starting device, Internal-combustion-. G. L. Henry. No. 1,015,272; Jan. 16; Sp. p. 4802; Gaz. vol. 174; p. 808.
Engine-starting device, Internal-combustion-. E. K. Baker. No. 1,016,314; Feb. 6; Sp. p. 177; Gaz. vol. 175; p. 27.
Engine-starting device, Internal-combustion-. F. H. Walker. No. 1,022,281; Apr. 2; Sp. p. 1106; Gaz. vol. 177; p. 177.
Engine-starting device, Internal-combustion-. C. F. Jenkins. No. 1,024,077; Apr. 23; Sp. p. 4940; Gaz. vol. 177; p. 875.
Engine-starting device, Internal-combustion-. E. A. Halbleib. No. 1,024,447; Apr. 23; Sp. p. 5750; Gaz. vol. 177; p. 1000.
Engine-starting device, Internal-combustion-. D. E. Crouse. No. 1,032,274; July 9; Gaz. vol. 180; p. 533.
Engine-starting device, Internal-combustion-. C. G. Adsit. No. 1,034,559; Aug. 6; Gaz. vol. 181; p. 53.
Engine-starting device, Internal-combustion-. D. E. Crouse. No. 1,036,972; Aug. 27; Gaz. vol. 181; p. 974.
Engine-starting device, Internal-combustion-. R. H. Muntz. No. 1,037,653; Sept. 3; Gaz. vol. 182; p. 160.
Engine-starting device, Internal-combustion-. R. W. Long and G. Buress. No. 1,038,401; Sept. 10; Gaz. vol. 182; p. 444.
Engine-starting device, Internal-combustion-. O. Fraschini. No. 1,039,504; Sept. 24; Gaz. vol. 182; p. 877.
Engine-starting device, Internal-combustion-. W. B. S. Whaley. No. 1,039,864; Oct. 1; Gaz. vol. 183; p. 65.
Engine-starting device, Internal-combustion-. H. B. Anderson. No. 1,044,118; Nov. 12; Gaz. vol. 184; p. 406.
Engine-starting mechanism, Explosive-. O. Ducker. No. 1,015,482; Jan. 23; Sp. p. 5293; Gaz. vol. 174; p. 907.
Engine-starting mechanism, Explosive-. L. C. Van Riper and A. Novick. No. 1,045,344; Nov. 26; Gaz. vol. 184; p. 890.
Engine-starting mechanism, Hydrocarbon-. F. Dettman. No. 1,020,967; Mar. 26; Sp. p. 4179; Gaz. vol. 176; p. 777.
Engine-starting mechanism, Internal-combustion-. O. P. Ostergren. No. 1,025,295; May 7; Sp. p. 401; Gaz. vol. 178; p. 66.
Engine-starting mechanism, Internal-combustion-. J. L. and F. A. Barker. No. 1,030,799; June 25; Sp. p. 6227; Gaz. vol. 179; p. 1052.
Engine-starting mechanism, Internal-combustion-. P. A. Painchaud. No. 1,035,383; Aug. 13; Gaz. vol. 181; p. 364.
Engine-starting mechanism, Internal-combustion-. C. A. Deal and M. E. Cox. No. 1,046,277; Dec. 3; Gaz. vol. 185; p. 167.
Engine-steering device, Traction-. C. S. Whitworth. No. 1,034,550; Aug. 6; Gaz. vol. 181; p. 50.
Engine-stop. J. L. Kimball. No. 1,026,041; May 14; Sp. p. 2079; Gaz. vol. 178; p. 356.
Engine stop and speed limit. W. A. Mueller. No. 1,029,023; June 11; Sp. p. 2079; Gaz. vol. 179; p. 358.
Engine-stop, Automatic. J. K. Wright. No. 1,020,940; Mar. 19; Sp. p. 4095; Gaz. vol. 176; p. 716.
Engine-stop, Automatic. L. P. Strong. No. 1,036,742; Aug. 27; Gaz. vol. 181; p. 896.
Engine stop device. A. Gale. No. 1,038,867; Sept. 17; Gaz. vol. 182; p. 641.
Engine stop mechanism. M. and J. H. Raymaker. No. 1,014,669; Jan. 16; Sp. p. 3521; Gaz. vol. 174; p. 604.
Engine-stopping device. H. Alsterberg. No. 1,029,657; June 18; Sp. p. 3442; Gaz. vol. 179; p. 611.
Engine-tender. W. Heinig. No. 1,044,045; Nov. 12; Gaz. vol. 184; p. 381.
Engine-throttle. A. A. and G. H. Steward. No. 1,030,140; June 18; Sp. p. 4500; Gaz. vol. 179; p. 777.
Engine timer, Explosion-. A. E. Youngren. No. 1,037,401; Sept. 3; Gaz. vol. 182; p. 75.
Engine vaporizing device, Explosive-. A. A. Low and H. Hertzberg. No. 1,035,614; Aug. 13; Gaz. vol. 181; p. 441.
Engine water-cooling system, Hydrocarbon-. J. W. Packard. No. 1,034,728; Aug. 6; Gaz. vol. 181; p. 109.
Engines and self-propelled vehicles, Starter for explosion-. D. B Gardner. No. 1,037,466; Sept. 3; Gaz. vol. 182; p. 99.
Engines and the like, Producing barrels of ovate section for rotary. H. Lee. No. 1,028,036; May 28; Sp. p. 6461; Gaz. vol. 178; p. 1107.

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Engines and the like, Steering mechanism for traction-. D. P. Davies. No. 1,045,952; Dec. 3; Gaz. vol. 185; p. 53.
Engines, Apparatus for distributing fuel to internal-combustion. H. T. Bruns. No. 1,026,732; May 21; Sp. p. 3616; Gaz. vol. 178; p. 628.
Engines, Apparatus for purifying the exhaust of internal-combustion. P. Gerli and G. Blenio. No. 1,032,536; July 16; Gaz. vol. 180; p. 666.
Engines, Automatic reversing and timing switch for gas-. J. M. Rhett. No. 1,014,723; Jan. 16; Sp. p. 3636; Gaz. vol. 174; p. 622.
Engines, Automatic safety-trip for. C. Schnitzler. No. 1,028,397; June 4; Sp. p. 735; Gaz. vol. 179; p. 111.
Engines, Automatic spark-timing mechanism for internal-combustion. T. Townson. No. 1,025,336; May 7; Sp. p. 509; Gaz. vol. 178; p. 80.
Engines, Automatic time-controlled regulator for gas-. W. C. Gambrel. No. 1,020,897; Mar. 19; Sp. p. 4018; Gaz. vol. 176; p. 701.
Engines, Balancing two-crank. F. B. K. Schubert. No. 1,027,775; May 28; Sp. p. 5856; Gaz. vol. 178; p. 1019.
Engines, Combined muffler and exhaust-pipe for internal-combustion. W. T. Rice. No. 1,036,713; Aug. 27; Gaz. vol. 181; p. 887.
Engines, Connecting-rod for. J. R. Foulder. No. 1,042,543; Oct. 29; Gaz. vol. 183; p. 1099.
Engines, Contact-breaker for electrical ignition apparatus for internal-combustion. G. Honold. No. 1,041,476; Oct. 15; Gaz. vol. 183; p. 675.
Engines, Continuous indicator for. W. L. Trill. No. 1,028,154; June 4; Sp. p. 163; Gaz. vol. 179; p. 25.
Engines, Continuous indicator for. W. L. Trill. No. 1,028,155; June 4; Sp. p. 171; Gaz. vol. 179; p. 26.
Engines, Controlling-gear for steam or other fluid. H. Pilling. No. 1,047,836; Dec. 17; Gaz. vol. 185; p. 780.
Engines, Counting apparatus for the indicated output of piston-. A. F. C. Böttcher and L. W. Lehmann. No. 1,039,250; Sept. 24; Gaz. vol. 182; p. 789.
Engines, Current-controlling mechanism for internal-combustion. L. T. Rhoades. No. 1,028,277; June 4; Sp. p. 467; Gaz. vol. 179; p. 68.
Engines, Cylinder and piston construction for internal-combustion. W. M. Upchurch. No. 1,038,238; Sept. 10; Gaz. vol. 182; p. 388.
Engines, Cylinder for double-acting piston-. C. Grunwald. No. 1,045,702; Nov. 26; Gaz. vol. 184; p. 1018.
Engines, Device for attaching reels to. F. J. Moser. No. 1,024,592; Apr. 30; Sp. p. 6155; Gaz. vol. 177; p. 1087.
Engines, Device for producing draft in. J. Trotter. No. 1,015,460; Jan. 23; Sp. p. 5248; Gaz. vol. 174; p. 899.
Engines, Eccentric-shifting mechanism for steam-. C. Ferrari. No. 1,033,570; July 23; Gaz. vol. 180; p. 1053.
Engines, Electric device for explosive-. C. T. Mason. No. 1,031,016; July 2; Gaz. vol. 180; p. 59.
Engines, Electric igniter for explosive-. L. E. Wegner. No. 1,022,990; Apr. 9; Sp. p. 2636; Gaz. vol. 177; p. 449.
Engines, Electric ignition system for internal-combustion. G. Honold, M. Rall, and P. Mumprecht. No. 1,014,824; Jan. 16; Sp. p. 3866; Gaz. vol. 174; p. 656.
Engines, Electric ignition system for internal-combustion. J. L. Milton. No. 1,039,171; Sept. 24; Gaz. vol. 182; p. 758.
Engines, Electric spark-plug for combustion-. L. Podszus. No. 1,017,459; Feb. 13; Sp. p. 2728; Gaz. vol. 175; p. 459.
Engines, Electrical appliance for gas-. J. W. Jepson. No. 1,037,485; Sept. 3; Gaz. vol. 182; p. 105.
Engines, Electrical ignition apparatus for internal-combustion. G. Honold. No. 1,041,477; Oct. 15; Gaz. vol. 183; p. 675.
Engines, Exhaust mechanism for. C. H. McCall. No. 1,032,016; July 9; Gaz. vol. 180; p. 446.
Engines, Fluid-mixer for gasolene-. S. La Mont. No. 1,029,810; June 18; Sp. p. 3778; Gaz. vol. 179; p. 665.
Engines, Fuel-supply system for explosive-. H. Lemp. No. 1,025,814; May 7; Sp. p. 1546; Gaz. vol. 178; p. 244.
Engines, Gas-controller for use with gas-. O. H. Wenderoth. No. 1,029,650; June 18; Sp. p. 3417; Gaz. vol. 179; p. 608.
Engines, Gas-making and charge-forming apparatus for internal-combustion. E. W. Stevens. No. 1,048,224; Dec. 24; Gaz. vol. 185; p. 938.
Engines, Gas-starter for internal-combustion. T. J. McCarthy. No. 1,046,825; Dec. 10; Gaz. vol. 185; p. 397.
Engines, Gearing for traction-. J. T. and G. Metcalfe. No. 1,048,464; Dec. 24; Gaz. vol. 185; p. 1019.
Engines, High-tension magneto ignition apparatus for internal-combustion. A. M. Patton. No. 1,016,895; Feb. 6; Sp. p. 1456; Gaz. vol. 175; p. 226.
Engines, Hydrocarbon-vaporizer for internal-combustion. J. W. Mowbray. No. 1,021,326; Mar. 26; Sp. p. 4915; Gaz. vol. 176; p. 898.
Engines, Igniting mechanism for internal-combustion. G. Honold and A. Zähringer. No. 1,017,212; Feb. 13; Sp. p. 2193; Gaz. vol. 175; p. 373.
Engines, Igniting system for automobile-. J. G. Winsor. No. 1,042,740; Oct. 29; Gaz. vol. 183; p. 1169.
Engines, Ignition apparatus for combustion-. M. A. Thiel. No. 1,045,639; Nov. 26; Gaz. vol. 184; p. 995.
Engines, Ignition apparatus for hydrocarbon-. M. Tibbetts. No. 1,023,180; Apr. 16; Sp. p. 3092; Gaz. vol. 177; p. 553.
Engines, Ignition apparatus for internal-combustion. M. B. Crist and M. R. Wells. No. 1,040,518; Oct. 8; Gaz. vol. 183; p. 315.
Engines, Ignition for internal-combustion. C. L. Terry. No. 1,025,844; May 7; Sp. p. 1607; Gaz. vol. 178; p. 254.
Engines, Implement for automobile-. J. J. Cooper. No. 1,018,236; Feb. 20; Sp. p. 4444; Gaz. vol. 175; p. 763.
Engines, Low-tension sparking mechanism for gas-. H. J. Podlešák. No. 1,022,642; Apr. 9; Sp. p. 1878; Gaz. vol. 177; p. 329.
Engines, Magneto-drive for internal-combustion. W. H. Frost. No. 1,046,579; Dec. 10; Gaz. vol. 185; p. 311.
Engines, Magneto ignition device for internal-combustion. C. B. Redrup. No. 1,030,127; June 18; Sp. p. 4470; Gaz. vol. 179; p. 772.
Engines, Means for driving the pumps of internal-combustion. H. T. Bruns. No. 1,023,241; Apr. 16; Sp. p. 3203; Gaz. vol. 177; p. 573.
Engines, Means for preliminarily heating internal-combustion. A. A. Low and H. Hertzberg. No. 1,029,380; June 11; Sp. p. 2851; Gaz. vol. 179; p. 479.
Engines, Means for the prevention of racing of marine. F. Tanner. No. 1,038,460; Sept. 10; Gaz. vol. 182; p. 467.
Engines, Means of removing the carbon from the cylinders, valves, and rings of gasolene-. C. Elliott and C. Kelly. No. 1,038,324; Sept. 10; Gaz. vol. 182; p. 417.
Engines, &c., Mixer for internal-combustion. W. C. Westaway. No 1,031,753; July 9; Gaz. vol. 180; p. 357.
Engines, Mixer for internal-combustion. W. Kelly. No. 1,041,096; Oct. 15; Gaz. vol. 183; p. 548.
Engines, &c., Mixing device for internal-combustion. W. C. Westaway. No. 1,031,755; July 9; Gaz. vol. 180; p. 357.
Engines, Mixture-producing and speed-governing device for gas-. H. J. Podlešák. No. 1,014,328; Jan. 9; Sp. p. 2746; Gaz. vol. 174; p. 458.
Engines, Motive-fluid mixer for internal-combustion. W. G. Cross. No. 1,030,388; June 25; Sp. p. 5074; Gaz. vol. 179; p. 904.
Engines, Non-vibrator ignition apparatus for internal-combustion. M. B. Crist and M. R. Wells. No. 1,037,732; Sept. 3; Gaz. vol. 182; p. 186.
Engines, Oil-feeding system for internal-combustion. W. I. Twombly. No. 1,044,709; Nov. 19; Gaz. vol. 184; p. 641.
Engines, Operating internal-combustion. R. M. Fryer. No. 1,027,380; May 21; Sp. p. 5053; Gaz. vol. 178; p. 851.
Engines or pumps, Cylinder for fluid-pressure. C. B. Redrup. No. 1,030,681; June 25; Sp. p. 5909; Gaz. vol. 179; p. 1010.
Engines, Pipe-supporting system for locomotive-. A. R. Ayers. No. 1,027,973; May 28; Sp. p. 6335; Gaz. vol. 178; p. 1087.
Engines, Pump feeding mechanism for internal-combustion. L. H. L. Bellem and G. J. B. Brégéras. No. 1,036,424; Aug. 20; Gaz. vol. 181; p. 758.
Engines, Radial pitman for multiple-cylinder. C. B. Redrup. No. 1,036,337; Aug. 20; Gaz. vol. 181; p. 728.
Engines, Rotary pump for reversing-. J. R. Kinney. No. 1,035,449; Aug. 13; Gaz. vol. 181; p. 385.
Engines, Safety-crank for explosion-. W. R. Clark. No. 1,020,799; Mar. 19; Sp. p. 3818; Gaz. vol. 176; p. 669.
Engines, Safety cranking device for internal-combustion. F. Dion. No. 1,049,061; Dec. 31; Gaz. vol. 185; p. 1265.
Engines, Safety-stop for steam-. S. C. Carr. No. 1,041,239; Oct. 15; Gaz. vol. 183; p. 594.
Engines, Self-starting device for internal-combustion. L. T. Weiss, Jr. No. 1,023,903; Apr. 23; Sp. p. 4575; Gaz. vol. 177; p. 815.
Engines, Spark-generator for internal-combustion. I. M. Davidson. No. 1,015,788; Jan. 30; Sp. p. 5942; Gaz. vol. 174; p. 1039.
Engines, Sparking plug for internal-combustion. A. Zähringer. No. 1,032,099; July 9; Gaz. vol. 180; p. 473.
Engines, Starting ignition for internal-combustion. G. Honold and M. Rall. No. 1,048,162; Dec. 24; Gaz. vol. 185; p. 918.
Engines, Starting internal-combustion. F. R. Simms. No. 1,048,362; Dec. 24; Gaz. vol. 185; p. 984.
Engines, Starting motor-vehicle internal-combustion. C. W. Mallins. No. 1,023,212; Apr. 16; Sp. p. 3154; Gaz. vol. 177; p. 564.
Engines, System and apparatus for starting internal-combustion. J. C. Boyle. No. 1,022,926; Apr. 9; Sp. p. 2506; Gaz. vol. 177; p. 427.
Engines, Throttle-controlling device for internal-combustion. E. P. Robinson. No. 1,040,017; Oct. 1; Gaz. vol. 183; p. 115.
Engines, Vaporizer for internal-combustion. E. Thomson. No. 1,021,220; Mar. 26; Sp. p. 4704; Gaz. vol. 176; p. 860.

Alphabetical list of inventions—Continued.

Engines, Water-cooling system for hydrocarbon-. R. Huff. No. 1,028,115; June 4; Sp. p. 43; Gaz. vol. 179; p. 11.
Engines, Working and governing internal-combustion. T. Rigby. No. 1,017,592; Feb. 13; Sp. p. 2974; Gaz. vol. 175; p. 502.
Engines, Working process for internal-combustion. G. Schimming. No. 1,039,823; Oct. 1; Gaz. vol. 183; p. 52.
Engineering instrument. D. W. Adams. No. 1,018,289; Feb. 20; Sp. p. 4549; Gaz. vol. 175; p. 780.
Engineer's combination-rod. A. Schroeder. No. 1,029,470; June 11; Sp. p. 3048; Gaz. vol. 179; p. 510.
Engineer's slope-rod. C. R. Hauke. No. 1,026,579; May 14; Sp. p. 3255; Gaz. vol. 178; p. 538.
Engraver's tool. P. P. Wentz. No. 1,018,348; Feb. 20; Sp. p. 4652; Gaz. vol. 175; p. 799.
Engraving and similar machine. W. S. Eaton. No. 1,039,714; Oct. 1; Gaz. vol. 183; p. 15.
Engraving-machine. W. A. Warman. No. 1,013,343; Jan. 2; Sp. p. 559; Gaz. vol. 174; p. 90.
Engraving-machine. T. G. and L. L. Cordi. No. 1,036,526; Aug. 20; Gaz. vol. 181; p. 783.
Engraving-machine. W. S. Eaton. No. 1,039,712; Oct. 1; Gaz. vol. 183; p. 14.
Engravings, Producing color-type. F. D. Montgomery. No. 1,027,142; May 21; Sp. p. 4581; Gaz. vol. 178; p. 770.
Ensilage-carrier. O. Borgen. No. 1,028,988; June 11; Sp. p. 2001; Gaz. vol. 179; p. 345.
Enumerating-machine. H. Hodsdon. No. 1,034,239; July 30; Gaz. vol. 180; p. 1309.
Envelop. W. F. Stevens. No. 1,013,571; Jan. 2; Sp. p. 1037; Gaz. vol. 174; p. 167.
Envelop. F. Lajos. No. 1,013,785; Jan. 2; Sp. p. 1525; Gaz. vol. 174; p. 242.
Envelop. C. F. Moulton. No. 1,016,950; Feb. 13; Sp. p. 1600; Gaz. vol. 175; p. 282.
Envelop. F. Grab. No. 1,019,783; Mar. 12; Sp. p. 1680; Gaz. vol. 176; p. 293.
Envelop. J. A. Woolslare. No. 1,020,469; Mar. 19; Sp. p. 3093; Gaz. vol. 176; p. 559.
Envelop. J. R. Kirksey. No. 1,023,382; Apr. 16; Sp. p. 3481; Gaz. vol. 177; p. 621.
Envelop. A. Mossop. No. 1,023,437; Apr. 16; Sp. p. 3588; Gaz. vol. 177; p. 638.
Envelop. J. S. Heeley. No. 1,024,258; Apr. 23; Sp. p. 5372; Gaz. vol. 177; p. 941.
Envelop. E. W. Morgan. No. 1,025,583; May 7; Sp. p. 1075; Gaz. vol. 178; p. 166.
Envelop. F. J. Schnorr. No. 1,025,837; May 7; Sp. p. 1592; Gaz. vol. 178; p. 252.
Envelop. E. G. Shreve. No. 1,026,933; May 21; Sp. p. 4065; Gaz. vol. 178; p. 697.
Envelop. G. J. Hartke. No. 1,031,550; July 2; Gaz. vol. 180; p. 244.
Envelop. J. H. Weishampel. No. 1,035,284; Aug. 13; Gaz. vol. 181; p. 327.
Envelop. A. W. McGuire. No. 1,039,567; Sept. 24; Gaz. vol. 182; p. 900.
Envelop. E. E. Cole. No. 1,039,899; Oct. 1; Gaz. vol. 183; p. 77.
Envelop. L. D. MacNaughton. No. 1,041,827; Oct. 22; Gaz. vol. 183; p. 830.
Envelop. J. M. Ness. No. 1,044,563; Nov. 19; Gaz. vol. 184; p. 589.
Envelop. L. D. Kohlhof. No. 1,044,666; Nov. 19; Gaz. vol. 184; p. 626.
Envelop. C. H. Snider. No. 1,044,935; Nov. 19; Gaz. vol. 184; p. 719.
Envelop. A. Delffs. No. 1,045,001; Nov. 19; Gaz. vol. 184; p. 742.
Envelop. W. E. Guina. No. 1,045,836; Dec. 3; Gaz. vol. 185; p. 14.
Envelop. H. H. Jensen. No. 1,046,467; Dec. 10; Gaz. vol. 185; p. 271.
Envelop. W. F. Grampp and W. D. Carson. No. 1,047,515; Dec. 17; Gaz. vol. 185; p. 668.
Envelop. W. Mackie. No. 1,048,556; Dec. 31; Gaz. vol. 185; p. 1089.
Envelop and advertising device. J. G. Patton. No. 1,040,004; Oct. 1; Gaz. vol. 183; p. 111.
Envelop and card feeding mechanism. S. L. Long and G. J. Albrecht. No. 1,032,556; July 16; Gaz. vol. 180; p. 673.
Envelop and letter-sheet packet, Combined. D. M. Benton. No. 1,014,441; Jan. 9; Sp. p. 2995; Gaz. vol. 174; p. 497.
Envelop-fastener. A. E. Edmondson. No. 1,030,507; June 25; Sp. p. 5364; Gaz. vol. 179; p. 947.
Envelop-machine. G. W. Smith and F. F. Flagg. No. 1,039,603; Sept. 24; Gaz. vol. 182; p. 912.
Envelop-machine. A. Novick. No. 1,039,786; Oct. 1; Gaz. vol. 183; p. 40.
Envelop-machine. J. Froehlich. No. 1,042,423; Oct. 29; Gaz. vol. 183; p. 1056.
Envelop-machine. J. West. No. 1,043,278; Nov. 5; Gaz. vol. 184; p. 82.
Envelop-machines, Gum-roll governor for. A. Laubscher. No. 1,029,304; June 11; Sp. p. 2668; Gaz. vol. 179; p. 452.
Envelop-opener. C. H. Crawford. No. 1,027,994; May 28; Sp. p. 6370; Gaz. vol. 178; p. 1094.
Envelop-opener. A. L. Palis. No. 1,031,578; July 2; Gaz. vol. 180; p. 253.
Envelop-opener. J. W. Sinnott. No. 1,032,865; July 16; Gaz. vol. 180; p. 779.
Envelop-opening device. L. Sadowski. No. 1,014,415; Jan. 9; Sp. p. 2947; Gaz. vol. 174; p. 489.
Envelop-opening machine. I. Michel. No. 1,013,201; Jan. 2; Sp. p. 228; Gaz. vol. 174; p. 38.
Envelop-opening means. J. W. Vendegriff. No. 1,013,909; Jan. 9; Sp. p. 1830; Gaz. vol. 174; p. 313.
Envelop-pad. G. G. Press. No. 1,019,275; Mar. 5; Sp. p. 586; Gaz. vol. 176; p. 94.
Envelop, Return-. J. M. Hoffner. No. 1,040,200; Oct. 1; Gaz. vol. 183; p. 178.
Envelop, Reversible and expanding. M. J. Shaffer. No. 1,042,488; Oct. 29; Gaz. vol. 183; p. 1081.
Envelop, Safety-. A. Mieden. No. 1,013,557; Jan. 2; Sp. p. 1014; Gaz. vol. 174; p. 163.
Envelop, Safety-. J. Mika. No. 1,033,606; July 23; Gaz. vol. 180; p. 1065.
Envelop, Safety-. M. E. Caldwell. No. 1,039,252; Sept. 24; Gaz. vol. 182; p. 790.
Envelop, Safety-. J. M. Skeene. No. 1,046,503; Dec. 10; Gaz. vol. 185; p. 284.
Envelops, &c., Apparatus for stacking. G. S. Lewis. No. 1,019,059; Mar. 5; Sp. p. 98; Gaz. vol. 176; p. 19.
Envelops, bags, boxes, and other articles, Fastening device for. W. and W. L. Joseph. No. 1,030,187; June 18; Sp. p. 4607; Gaz. vol. 179; p. 793.
Envelops or bags, Manufacturing. A. Wasmus. No. 1,035,109; Aug. 6; Gaz. vol. 181; p. 236.
Envelops, Transparent panel for. W. E. Swift. No. 1,038,459; Sept. 10; Gaz. vol. 182; p. 466.
Equalizer. D. W. McNatt. No. 1,031,019; July 2; Gaz. vol. 180; p. 60.
Equalizer. J. H. Emert. No. 1,038,326; Sept. 10; Gaz. vol. 182; p. 418.
Equalizer connection. J. W. Gamble. No. 1,039,378; Sept. 24; Gaz. vol. 182; p. 833.
Equalizer, Four-horse. J. H. Post. No. 1,037,310; Sept. 3; Gaz. vol. 182; p. 44.
Equilibrator. M. Vaniman. No. 1,043,376; Nov. 5; Gaz. vol. 184; p. 118.
Equipoiser. G. Hipwood and P. Egan. No. 1,028,071; May 28; Sp. p. 6539; Gaz. vol. 178; p. 1117.
Eraser. J. V. Washburne. No. 1,013,575; Jan. 2; Sp. p. 1046; Gaz. vol. 174; p. 166.
Eraser-cleaner, Vacuum. C. W. Polley. No. 1,026,697; May 21; Sp. p. 3533; Gaz. vol. 178; p. 616.
Eraser-dust-collecting instrument. H. H. Yelf. No. 1,043,282; Nov. 5; Gaz. vol. 184; p. 84.
Eraser for blackboards, &c. E. M. Hasbrouck. No. 1,034,706; Aug. 6; Gaz. vol. 181; p. 102.
Eraser-holder. H. H. Yelf. No. 1,018,288; Feb. 20; Sp. p. 4548; Gaz. vol. 175; p. 780.
Eraser-holder. T. P. Kruger. No. 1,028,034; May 28; Sp. p. 6456; Gaz. vol. 178; p. 1103.
Eraser, Ink-. J. K. Ruth. No. 1,048,350; Dec. 24; Gaz. vol. 185; p. 980.
Eraser mechanism. J. Auld. No. 1,034,054; July 30; Gaz. vol. 180; p. 1245.
Eraser-tool. W. L. Siegel. No. 1,029,572; June 11; Sp. p. 3251; Gaz. vol. 179; p. 545.
Erythrene, Producing. L. P. Kyriakides and R. B. Earle. No. 1,033,327; July 23; Gaz. vol. 180; p. 973.
Erythrene, Producing. G. Merling and H. Köhler. No. 1,036,876; Aug. 27; Gaz. vol. 181; p. 942.
Erythrene, Producing. C. Harries. No. 1,038,359; Sept. 10; Gaz. vol. 182; p. 428.
Escapement. C. A. Norell. No. 1,023,269; Apr. 16; Sp. p. 3275; Gaz. vol. 177; p. 585.
Escapement-regulator. F. Ecaubert. No. 1,023,140; Apr. 16; Sp. p. 2995; Gaz. vol. 177; p. 539.
Escapement-wheel. P. E. Jeanmairet. No. 1,044,054; Nov. 12; Gaz. vol. 184; p. 385.
Esters of metacresol and derivatives of same with lower fatty acids. N. Sulzberger. No. 1,031,971; July 9; Gaz. vol. 180; p. 431.
Esters of the hydrocinchona alkaloids, Manufacture of. H. Thron. No. 1,041,528; Oct. 15; Gaz. vol. 183; p. 692.
Esters of the hydrocinchona alkaloids, Manufacture of. H. Thron. No. 1,049,172; Dec. 31; Gaz. vol. 185; p. 1301.
Etching apparatus. J. S. Freer. No. 1,016,487; Feb. 6; Sp. p. 572; Gaz. vol. 175; p. 88.
Etching-machine. E. Albert. No. 1,013,717; Jan. 2; Sp. p. 1386; Gaz. vol. 174; p. 217.
Etching-machine. R. R. Page and F. J. Black. No. 1,013,892; Jan. 9; Sp. p. 1791; Gaz. vol. 174; p. 307.
Etching-machine. W. S. Eaton. No. 1,039,713; Oct. 1; Gaz. vol. 183; p. 14.
Etching-machine. H. S. Levy. No. 1,042,699; Oct. 29; Gaz. vol. 183; p. 1154.
Etching machine, Plate-. H. W. Baker. No. 1,039,242; Sept. 24; Gaz. vol. 182; p. 786.
Etching plates by electricity. E. G. Schwuchow and G. F. Johnston. No. 1,047,995; Dec. 24; Gaz. vol. 185; p. 861.

Alphabetical list of inventions—Continued.

Ethyl alcohol by fermenting sulfite liquor, Manufacture of. P. G. Ekström. No. 1,046,160; Dec. 3; Gaz. vol. 185; p. 124.
Evaporating and fumigating apparatus. J. W. Bates. No. 1,029,841; June 18; Sp. p. 3876; Gaz. vol. 179; p. 676.
Evaporating apparatus. P. Kestner. No. 1,016,160; Jan. 30; Sp. p. 6716; Gaz. vol. 174; p. 1167.
Evaporating apparatus. C. L. Prache. No. 1,020,659; Mar. 19; Sp. p. 3520; Gaz. vol. 176; p. 620.
Evaporating apparatus. N. H. Hiller. No. 1,024,576; Apr. 30; Sp. p. 6112; Gaz. vol. 177; p. 1081.
Evaporating apparatus. P. Kestner. No. 1,028,738; June 4; Sp. p. 1442; Gaz. vol. 179; p. 224.
Evaporating apparatus. J. A. Power. No. 1,028,777; June 4; Sp. p. 1525; Gaz. vol. 179; p. 237.
Evaporating apparatus. T. F. Sanborn. No. 1,028,792; June 4; Sp. p. 1553; Gaz. vol. 179; p. 242.
Evaporating apparatus. H. Kayser. No. 1,036,637; Aug. 27; Gaz. vol. 181; p. 862.
Evaporating apparatus for recovering soda-ash. G. H. Marshall. No. 1,035,097; Aug. 6; Gaz. vol. 181; p. 233.
Evaporating apparatus having multiple evaporation. W. Rusiecki. No. 1,021,486; Mar. 26; Sp. p. 5292; Gaz. vol. 176; p. 954.
Evaporating-cooler. E. Gosliner. No. 1,044,376; Nov. 12; Gaz. vol. 184; p. 495.
Evaporating-pan. R. G. Hamilton. No. 1,014,468; Jan. 9; Sp. p. 3046; Gaz. vol. 174; p. 505.
Evaporating-pan for driving off alcohol from malt liquors. H. E. Deckebach. No. 1,040,287; Oct. 8; Gaz. vol. 183; p. 236.
Evaporation and apparatus therefor, Process of. P. Kestner. No. 1,028,737; June 4; Sp. p. 1439; Gaz. vol. 179; p. 223.
Evaporation-controlling apparatus. R. S. Blair. No. 1,026,846; May 21; Sp. p. 3862; Gaz. vol. 178; p. 667.
Evaporative cooler. J. A. and C. W. Walkup. No. 1,030,693; June 25; Sp. p. 5935; Gaz. vol. 179; p. 1014.
Evaporator. O. Faller. No. 1,028,086; May 28; Sp. p. 6579; Gaz. vol. 178; p. 1122.
Evaporator. J. E. Dunn. No. 1,033,558; July 23; Gaz. vol. 180; p. 1049.
Evaporator. W. G. Hall and W. Searby. No. 1,033,580; July 23; Gaz. vol. 180; p. 1057.
Evaporator. P. Müller. No. 1,033,609; July 23; Gaz. vol. 180; p. 1066.
Evaporator. R. B. Hall. No. 1,039,525; Sept. 24; Gaz. vol. 182; p. 885.
Evaporator. G. W. Heisserman, Jr. No. 1,045,023; Nov. 19; Gaz. vol. 184; p. 750..
Evaporator, Sea-water. W. Weir. No. 1,049,014; Dec. 31; Gaz. vol. 185; p. 1249.
Evaporators, Removing salt from. S. M. Lillie. No. 1,036,127; Aug. 20; Gaz. vol. 181; p. 653.
Evener. J. P. Cormode. No. 1,038,725; Sept. 17; Gaz. vol. 182; p. 592.
Evener. W. C. Hoppes. No. 1,043,700; Nov. 5; Gaz. vol. 184; p. 231.
Evener attachment. C. O. Thorson. No. 1,038,463; Sept. 10; Gaz. vol. 182; p. 468.
Evener-bar. E. Duschen. No. 1,024,318; Apr. 23; Sp. p. 5475; Gaz. vol. 177; p. 960.
Evener, Side-draft. H. B. White. No. 1,031,760; July 9; Gaz. vol. 180; p. 359.
Evening and grading machine. E. P. Nichols. No. 1,046,213; Dec. 3; Gaz. vol. 185; p. 143.
Excavating and conveying apparatus. J. L. Potter. No. 1,018,359; Feb. 20; Sp. p. 4672; Gaz. vol. 175; p. 803.
Excavating and levee-building machine, Combined. C. H. Dishman. No. 1,040,525; Oct. 8; Gaz. vol. 183; p. 318.
Excavating and loading machine. G. W. Jackson. No. 1,046,300; Dec. 3; Gaz. vol. 185; p. 175.
Excavating and loading mechanism. J. S. Tindall. No. 1,038,684; Sept. 17; Gaz. vol. 182; p. 578.
Excavating apparatus. H. H. Harris. No. 1,049,229; Dec. 31; Gaz. vol. 185; p. 1321.
Excavating-bucket. F. G. Frink. No 1,023,370; Apr. 16; Sp. p. 3454; Gaz. vol. 177; p. 617.
Excavating-bucket. J. H. Murphy. No. 1,033,822; July 30; Gaz. vol. 180; p. 1162.
Excavating-bucket, Automatic electric. W. G. Stephan and C. E. Beard. No. 1,043,640; Nov. 5; Gaz. vol. 184; p. 211.
Excavating-dipper. A. E. Park. No. 1,047,135; Dec. 10; Gaz. vol. 185; p. 502.
Excavating-machine. C. A. Whipple. No. 1,015,525; Jan. 23; Sp. p. 5370; Gaz. vol. 174; p. 920.
Excavating-machine. F. Somers. No. 1,015,850; Jan. 30; Sp. p. 6076; Gaz. vol. 174; p. 1059.
Excavating-machine. C. S. Brown. No. 1,016,127; Jan. 30; Sp. p. 6659; Gaz. vol. 174; p. 1158.
Excavating-machine. J. Hood. No. 1,020,504; Mar. 19; Sp. p. 3167; Gaz. vol. 176; p. 569.
Excavating-machine. F. E. Horning. No. 1,021,777; Apr. 2; Sp. p. 42; Gaz. vol. 177; p. 10.
Excavating-machine. C. E. Bathrick. No. 1,023,356; Apr. 16; Sp. p. 3429; Gaz. vol. 177; p. 612.
Excavating-machine. M. C. Hanson. No. 1,031,788; July 9; Gaz. vol. 180; p. 368.
Excavating-machine. F. J. Dearborn. No. 1,041,603; Oct. 15; Gaz. vol. 183; p. 714.
Excavating-machine. L. A. Krupp. No. 1,043,113; Nov. 5; Gaz. vol. 184; p. 23.
Excavating-machine. L. K. Sherman. No. 1,044,090; Nov. 12; Gaz. vol. 184; p. 398.
Excavating-machine. L. A. Ward. No. 1,048,244; Dec. 24; Gaz. vol. 185; p. 943.
Excavating-scoop. W. H. Gade. No. 1,014,293; Jan. 9; Sp. p. 2671; Gaz. vol. 174; p. 445.
Excavating-scoop for wire-rope haul. A. McGillis. No. 1,027,876; May 28; Sp. p. 6140; Gaz. vol. 178; p. 1054.
Excavating-scraper. E. Johnson. No. 1,017,293; Feb. 13; Sp. p. 2355; Gaz. vol. 175; p. 401.
Excavating-shovel. C. A. Morris. No. 1,022,638; Apr. 9; Sp. p. 1870; Gaz. vol. 177; p. 327.
Excavator. A. D. Hadsel. No. 1,015,486; Jan. 23; Sp. p. 5299; Gaz. vol. 174; p. 908.
Excavator. A. D. Hadsel. No. 1,015,488; Jan. 23; Sp. p. 5303; Gaz. vol. 174; p. 909.
Excavator. A. D. Hadsel. No. 1,015,489; Jan. 23; Sp. p. 5306; Gaz. vol. 174; p. 910.
Excavator. J. M. Brooks. No. 1,018,160; Feb. 20; Sp. p. 4292; Gaz. vol. 175; p. 737.
Excavator. C. E. Bathrick. No. 1,018,692; Feb. 27; Sp. p. 5298; Gaz. vol. 175; p. 920.
Excavator. T. G. Travers. No. 1,031,402; July 2; Gaz. vol. 180; p. 194.
Excavator. C. C. Jacobs. No. 1,032,834; July 16; Gaz. vol. 180; p. 769.
Excavator. N. A. Lybeck. No. 1,032,845; July 16; Gaz. vol. 180; p. 773.
Excavator. M. G. Bunnell. No. 1,037,429; Sept. 3; Gaz. vol. 182; p. 85.
Excavator. J. Gallagher. No. 1,040,304; Oct. 8; Gaz. vol. 183; p. 243.
Excavator. W. S. Smith. No. 1,044,279; Nov. 12; Gaz. vol. 184; p. 462.
Excavator. A. D. Hadsel. No. 1,046,180; Dec. 3; Gaz. vol. 185; p. 130.
Excavator. R. R. Hatchett. No. 1,047,804; Dec. 17; Gaz. vol. 185; p. 769.
Excavator, Belt. P. J. Lyback. No. 1,020,296; Mar. 12; Sp. p. 2739; Gaz. vol. 176; p. 464.
Excavator-bucket. E. R. Shnable. No. 1,018,275; Feb. 20; Sp. p. 4514; Gaz. vol. 175; p. 776.
Excavator-bucket clean-out. H. J. Bentson. No. 1,020,958; Mar. 26; Sp. p. 4158; Gaz. vol. 176; p. 773.
Excavator-bucket cleaner. C. W. Hill. No. 1,034,237; July 30; Gaz. vol. 180; p. 1308.
Excavator, Drag-line. H. J. Bentson. No. 1,035,768; Aug. 13; Gaz. vol. 181; p. 492.
Excavator-wheel. A. Roberts. No. 1,021,113; Mar. 26; Sp. p. 4461; Gaz. vol. 176; p. 825.
Excelsior-knife. H. W. Selle. No. 1,033,202; July 23; Gaz. vol. 180; p. 931.
Excelsior-machine. J. W. Keogh. No. 1,020,100; Mar. 12; Sp. p. 2333; Gaz. vol. 176; p. 399.
Exerciser. R. B. Patterson, Jr. No. 1,020,367; Mar. 12; Sp. p. 2867; Gaz. vol. 176; p. 485.
Exerciser, straightener, and heightener, Physical. T. M. Allan. No. 1,013,097; Jan. 2; Sp. p. 4; Gaz. vol. 174; p. 4.
Exercising and strength-testing appliance. J. Harania. No. 1,020,551; Mar. 19; Sp. p. 3277; Gaz. vol. 176; p. 585.
Exercising apparatus. H. W. Titus. No. 1,019,861; Mar. 12; Sp. p. 1824; Gaz. vol. 176; p. 320.
Exercising apparatus. A. A. Pons. No. 1,023,756; Apr. 16; Sp. p. 4196; Gaz. vol. 177; p. 737.
Exercising apparatus (controller for vertical adjustment). M. B. Reach. No. 1,045,611; Nov. 26; Gaz. vol. 184; p. 985.
Exercising apparatus, (marking device.) M. B. Reach. No. 1,035,904; Aug. 20; Gaz. vol. 181; p. 577.
Exercising apparatus, vaulting-horse. M. B. Reach. No. 1,013,685; Jan. 2; Sp. p. 1333; Gaz. vol. 174; p. 206.
Exercising device. R. A. Rohrer. No. 1,014,774; Jan. 16; Sp. p. 3753; Gaz. vol. 174; p. 638.
Exercising device. H. Whiting. No. 1,017,356; Feb. 13; Sp. p. 2493; Gaz. vol. 175; p. 423.
Exercising device, (vaulting-bar.) A. Couture. No. 1,047,754; Dec. 17; Gaz. vol. 185; p. 753.
Exercising machine, Registering physical-. A. E. Hartig. No. 1,040,672; Oct. 8; Gaz. vol. 183; p. 374.
Exhaust-controlling mechanism. S. S. Stevenson. No. 1,024,375; Apr. 23; Sp. p. 5565; Gaz. vol. 177; p. 976.
Exhaust-motor. C. F. High. No. 1,040,199; Oct. 1; Gaz. vol. 183; p. 177.
Exhaust-motor. C. F. High. No. 1,048,311; Dec. 24; Gaz. vol. 185; p. 967.
Exhaust-silencer. Z. Swearingen. No. 1,030,347; June 25; Sp. p. 4989; Gaz. vol. 179; p. 889.
Exhaust-stand. A. J. Hall. No. 1,039,524; Sept. 24; Gaz. vol. 182; p. 885.
Exhaust, Steam-actuated. E. Turner. No. 1,042,846; Oct. 29; Gaz. vol. 183; p. 1204.
Exhauster or compressor for gases, also applicable as an ejector-condenser. W. Hunt. No. 1,040,981; Oct. 8; Gaz. vol. 183; p. 475.

Alphabetical list of inventions—Continued.

Exhibit device. O. E. Kellum. No. 1,022,743; Apr. 9; Sp. p. 2136; Gaz. vol. 177; p. 366.
Exhibit device. O. E. Kellum. No. 1,022,744; Apr. 9; Sp. p. 2138; Gaz. vol. 177; p. 367.
Exhibiting and advertising device. H. W. Pearson. No. 1,032,156; July 9; Gaz. vol. 180; p. 492.
Exhibition device, Automatic. A. Hinzpeter. No. 1,039,397; Sept. 24; Gaz. vol. 182; p. 839.
Exhibition mechanism, Automatic. R. E. Lippincott. No. 1,031,857; July 9; Gaz. vol. 180; p. 393.
Exhibitor, Chart-. R. H. Stone. No. 1,036,926; Aug. 27; Gaz. vol. 181; p. 957.
Expansible bolt. P. Veres. No. 1,035,277; Aug. 13; Gaz. vol. 181; p. 324.
Expansion-bolt. F. H. Ruecking. No. 1,013,222; Jan. 2; Sp. p. 297; Gaz. vol. 174; p. 47.
Expansion-bolt. J. E. Goewey. No. 1,014,144; Jan. 9; Sp. p. 2346; Gaz. vol. 174; p. 392.
Expansion-bolt. C. Pauli. No. 1,019,723; Mar. 5; Sp. p. 1554; Gaz. vol. 176; p. 241.
Expansion-bolt. H. W. Munger. No. 1,024,949; Apr. 30; Sp. p. 6903; Gaz. vol. 177; p. 1213.
Expansion-bolt. M. H. Paine. No. 1,031,462; July 2; Gaz. vol. 180; p. 214.
Expansion-bolt. D. W. Bennett. No. 1,041,953; Oct. 22; Gaz. vol. 183; p. 872.
Expansion-comb. P. Wilson. No. 1,013,714; Jan. 2; Sp. p. 1379; Gaz. vol. 174; p. 216.
Expansion-engine for producing low temperatures. C. W. P. Heylandt. No. 1,019,790; Mar. 12; Sp. p. 1694; Gaz. vol. 176; p. 295.
Expansion-engine for reducing compressed gas to low temperatures. C. W. P. Heylandt. No. 1,019,791; Mar. 12; Sp. p. 1696; Gaz. vol. 176; p. 296.
Expansion-hoop. N. M. Brown. No. 1,028,325; June 4; Sp. p. 569; Gaz. vol. 179; p. 84.
Expansion-joint. W. Wright and H. F. Hall. No. 1,021,082; Mar. 26; Sp. p. 4399; Gaz. vol. 176; p. 816.
Expansion-joint. J. Adkins, Jr. No. 1,040,093; Oct. 1; Gaz. vol. 183; p. 141.
Expansion-joint, Fluid-tight. C. E. Heitman. No. 1,015,180; Jan. 16; Sp. p. 4607; Gaz. vol. 174; p. 777.
Expansion-joint for integrally-cast structures. C. F. Coda. No. 1,040,623; Oct. 8; Gaz. vol. 183; p. 354.
Exploder, Delay-action. F. Bernardi and J. B. Sauve. No. 1,029,261; June 11; Sp. p. 2578; Gaz. vol. 179; p. 438.
Exploding charges, Means for. C. I. Dodson. No. 1,024,621; Apr. 30; Sp. p. 6215; Gaz. vol. 177; p. 1097.
Exploding charges, Means for. C. I. Dodson. No. 1,024,622; Apr. 30; Sp. p. 6220; Gaz. vol. 177; p. 1097.
Explosion-engine. J. G. Utz. No. 1,014,270; Jan. 9; Sp. p. 2621; Gaz. vol. 174; p. 437.
Explosion-engine. J. G. Utz. No. 1,015,101; Jan. 16; Sp. p. 4463; Gaz. vol. 174; p. 751.
Explosion-engine. G. F. Mort. No. 1,021,697; Mar. 26; Sp. p. 5685; Gaz. vol. 176; p. 1024.
Explosion-engine. H. E. Coffin. No. 1,024,618; Apr. 30; Sp. p. 6209; Gaz. vol. 177; p. 1095.
Explosion-engine. H. E. Coffin. No. 1,024,619; Apr. 30; Sp. p. 6210; Gaz. vol. 177; p. 1096.
Explosion-engine. H. Mörtzsch. No. 1,031,809; July 9; Gaz. vol. 180; p. 376.
Explosion-engine. W. S. Lee. No. 1,033,911; July 30; Gaz. vol. 180; p. 1193.
Explosion-motor. P. Daimler. No. 1,016,675; Feb. 6; Sp. p. 1011; Gaz. vol. 175; p. 153.
Explosion-motor, Rotary. F. Beck. No. 1,025,361; May 7; Sp. p. 569; Gaz. vol. 178; p. 89.
Explosion-motor, Two-cycle. H. Scheit. No. 1,015,909; Jan. 30; Sp. p. 6198; Gaz. vol. 174; p. 1081.
Explosion-motor, Two-cycle. L. Palous. No. 1,041,154; Oct. 15; Gaz. vol. 183; p. 567.
Explosive. J. F. O'Brien. No. 1,021,882; Apr. 2; Sp. p. 284; Gaz. vol. 177; p. 46.
Explosive. J. F. O'Brien. No. 1,028,950; June 11; Sp. p. 1917; Gaz. vol. 179; p. 331.
Explosive. J. F. O'Brien. No. 1,028,951; June 11; Sp. p. 1918; Gaz. vol. 179; p. 332.
Explosive. J. F. O'Brien. No. 1,028,952; June 11; Sp. p. 1920; Gaz. vol. 179; p. 332.
Explosive. W. Riokmers. No. 1,032,242; July 9; Gaz. vol. 180; p. 523.
Explosive. J. F. O'Brien. No. 1,037,300; Sept. 3; Gaz. vol. 182; p. 41.
Explosive. J. F. O'Brien. No. 1,038,187; Sept. 10; Gaz. vol. 182; p. 371.
Explosive. J. F. O'Brien. No. 1,038,188; Sept. 10; Gaz. vol. 182; p. 371.
Explosive. H. P. Bostaph. No. 1,038,275; Sept. 10; Gaz. vol. 182; p. 402.
Explosive. B. J. Flürscheim. No. 1,045,012; Nov. 19; Gaz. vol. 184; p. 746.
Explosive charge. E. Sokolowski. No. 1,033,285; July 23; Gaz. vol. 180; p. 960.
Explosive charge and explosive body for projectiles, mines, and torpedoes. C. E. Bichel. No. 1,036,176; Aug. 20; Gaz. vol. 181; p. 671.
Explosive charges, Tool for preparing ground to receive. S. Rand. No. 1,027,433; May 28; Sp. p. 5175; Gaz. vol. 178; p. 907.
Explosive, Chlorate. O. Silberrad. No. 1,040,793; Oct. 8; Gaz. vol. 183; p. 412.
Explosive-engine. W. Rowbotham. No. 1,014,332; Jan. 9; Sp. p. 2762; Gaz. vol. 174; p. 459.
Explosive-engine. S. Ybarra. No. 1,015,116; Jan. 16; Sp. p. 4494; Gaz. vol. 174; p. 757.
Explosive-engine. J. W. Meaker. No. 1,015,502; Jan. 23; Sp. p. 5328; Gaz. vol. 174; p. 913.
Explosive-engine. C. E. Mead. (Reissue.) No. 13,368; Feb. 13; Sp. p. 3076; Gaz. vol. 175; p. 518.
Explosive-engine. W. Ottaway. No. 1,017,993; Feb. 20; Sp. p. 3924; Gaz. vol. 175; p. 678.
Explosive-engine. H. J. Podlešák. No. 1,019,354; Mar. 5; Sp. p. 800; Gaz. vol. 176; p. 120.
Explosive-engine. A. Hanson. No. 1,020,819; Mar. 19; Sp. p. 3868; Gaz. vol. 176; p. 676.
Explosive-engine. F. J. Gremel. No. 1,022,476; Apr. 9; Sp. p. 1526; Gaz. vol. 177; p. 274.
Explosive-engine. J. W. Meaker. No. 1,023,088; Apr. 9; Sp. p. 2840; Gaz. vol. 177; p. 483.
Explosive-engine. W. J. Wright. No. 1,023,606; Apr. 16; Sp. p. 3940; Gaz. vol. 177; p. 692.
Explosive-engine. W. J. Wright. No. 1,023,607; Apr. 16; Sp. p. 3944; Gaz. vol. 177; p. 692.
Explosive-engine. R. McKee. No. 1,026,403; May 14; Sp. p. 2904; Gaz. vol. 178; p. 481.
Explosive-engine. G. F. Dillon. No. 1,033,160; July 23; Gaz. vol. 180; p. 916.
Explosive-engine. W. P. Pembroke. No. 1,036,321; Aug. 20; Gaz. vol. 181; p. 722.
Explosive-engine. H. J. Podlešák. No. 1,037,526; Sept. 3; Gaz. vol. 182; p. 119.
Explosive-engine. W. A. Schaffer. No. 1,037,667; Sept. 3; Gaz. vol. 182; p. 165.
Explosive-engine. O. Ducker. No. 1,038,541; Sept. 17; Gaz. vol. 182; p. 528.
Explosive-engine. A. Lee. No. 1,042,572; Oct. 29; Gaz. vol. 183; p. 1109.
Explosive-engine. H. W. Moore. No. 1,042,947; Oct. 29; Gaz. vol. 183; p. 1238.
Explosive-engine. W. A. Sorg. No. 1,044,096; Nov. 12; Gaz. vol. 184; p. 400.
Explosive-engine. M. C. Kessler. No. 1,046,392; Dec. 3; Gaz. vol. 185; p. 207.
Explosive-engine. S. Ybarra. No. 1,046,704; Dec. 10; Gaz. vol. 185; p. 356.
Explosive-engine. R. Ragan. No. 1,048,095; Dec. 24; Gaz. vol. 185; p. 895.
Explosive, especially suitable for the preparation of pressed pieces, and making the same, Granular. O. Reuter. No. 1,036,906; Aug. 27; Gaz. vol. 181; p. 951.
Explosive-motor. J. Shaw. No. 1,044,089; Nov. 12; Gaz. vol. 184; p. 397.
Explosive or combustible mixture of liquid fuel and air, Apparatus for producing an. C. E. Dawson. No. 1,029,796; June 18; Sp. p. 3752; Gaz. vol. 179; p. 660.
Explosive or internal-combustion engine. A. B. Casper. No. 1,036,451; Aug. 20; Gaz. vol. 181; p. 766.
Explosive, Perchlorate. O. Silberrad. No. 1,040,794; Oct. 8; Gaz. vol. 183; p. 413.
Explosive, Safety. N. Ceipek. No. 1,033,537; July 23; Gaz. vol. 180; p. 1042.
Explosive, Safety. N. Ceipek. No. 1,038,292; Sept. 10; Gaz. vol. 182; p. 407.
Explosives containing common resin, Producing. O. B. Carlson. No. 1,038,847; Sept. 17; Gaz. vol. 182; p. 635.
Explosives containing nitro derivatives of common resin, Producing. O. B. Carlson. No. 1,043,042; Oct. 29; Gaz. vol. 183; p. 1273.
Explosives, Detonation of. H. Brunswig. No. 1,042,643; Oct. 29; Gaz. vol. 183; p. 1135.
Explosives, Making unfreezable. V. Vender. No. 1,029,519; June 11; Sp. p. 3136; Gaz. vol. 179; p. 526.
Explosives, Manufacture of. P. E. C. Corbin. No. 1,041,745; Oct. 22; Gaz. vol. 183; p. 799.
Expulsion-switch. E. M. Hewlett. No. 1,039,395; Sept. 24; Gaz. vol. 182; p. 839.
Extensible bracket. A. F. Pieper. No. 1,036,703; Aug. 27; Gaz. vol. 181; p. 885.
Extensible bracket. A. F. Pieper. No. 1,040,575; Oct. 8; Gaz. vol. 183; p. 336.
Extensible table. C. H. Harris. No. 1,037,758; Sept. 3; Gaz. vol. 182; p. 194.
Extensible table. J. Sedaj. No. 1,048,596; Dec. 31; Gaz. vol. 185; p. 1102.
Extension-rod, Telescopic. J. A. Leland. No. 1,030,592; June 25; Sp. p. 5635; Gaz. vol. 179; p. 977.
Extension-table. C. S. Burton. No. 1,030,459; June 25; Sp. p. 5227; Gaz. vol. 179; p. 930.
Extension-table. P. C. McMahan and E. L. King. No. 1,030,853; June 25; Sp. p. 6445; Gaz. vol. 179; p. 1073.
Extension-table. C. H. Johnsen. No. 1,031,557; July 2; Gaz. vol. 180; p. 246.
Extension-table. E. Tyden. No. 1,033,844; July 30; Gaz. vol. 180; p. 1170.
Extension-table. W. McGall and T. E. Morgan. No. 1,035,214; Aug. 13; Gaz. vol. 181; p. 302.
Extension-table. C. Hedrich. No. 1,039,128; Sept. 24; Gaz. vol. 182; p. 744.

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Extension-table. E. W. Schultz. No. 1,040,028; Oct. 1; Gaz. vol. 183; p. 118.
Extension-table. S. R. Libbey. No. 1,043,710; Nov. 5; Gaz. vol. 184; p. 234.
Extension-table, Knockdown. E. Tyden. No. 1,030,438; June 25; Sp. p. 5187; Gaz. vol. 179; p. 922.
Extension-table, Pedestal. W. L. Pfefferkorn, A. P. Schloerb, and A. H. Hammetter. No. 1,017,062; Feb. 13; Sp. p. 1848; Gaz. vol. 175; p. 320.
Extension-table, Round-top. C. N. Munz. No. 1,019,826; Mar. 12; Sp. p. 1750; Gaz. vol. 176; p. 307.
Extractor: *See* Bolt-extractor; Cork-extractor; Dental post-extractor; Drill-extractor; Dust-extractor; Fish-hook extractor; Metal-extractor; Nail-extractor; Pen-extractor; Pig-extractor; Semen-extractor; Stopper-extractor.
Extracts, Apparatus for producing vegetable. A. Rosenberger. No. 1,028,282; June 4; Sp. p. 477; Gaz. vol. 179; p. 70.
Extrusion-press. L. G. Derain. No. 1,037,213; Sept. 3; Gaz. vol. 182; p. 12.
Eye-cap. H. Morgan. No. 1,016,083; Jan. 30; Sp. p. 6584; Gaz. vol. 174; p. 1143.
Eye examining and testing machine. G. A. Rogers. No. 1,013,316; Jan. 2; Sp. p. 508; Gaz. vol. 174; p. 80.
Eye-model. J. J. Myers. No. 1,042,815; Oct. 29; Gaz. vol. 183; p. 1194.
Eye-protector. H. A. Corbett. No. 1,025,124; May 7; Sp. p. 28; Gaz. vol. 178; p. 6.
Eye-shield. R. Malcom. No. 1,031,859; July 9; Gaz. vol. 180; p. 394.
Eye-shield, Sanitary. J. F. Snyder. No. 1,029,241; June 11; Sp. p. 2543; Gaz. vol. 179; p. 431.
Eyes, Device for removing foreign matter from the. W. A. Jones. No. 1,020,985; Mar. 26; Sp. p. 4220; Gaz. vol. 176; p. 784.
Eyeglass attachment. O. Schwimmer. No. 1,030,545; June 25; Sp. p. 5464; Gaz. vol. 179; p. 960.
Eyeglass-case. E. S. Coy. No. 1,017,514; Feb. 13; Sp. p. 2836; Gaz. vol. 175; p. 478.
Eyeglass-case. H. V. Conrad. No. 1,025,372; May 7; Sp. p. 594; Gaz. vol. 178; p. 92.
Eyeglass-case and screw-driver, Combined. H. Asher. No. 1,041,402; Oct. 15; Gaz. vol. 183; p. 650.
Eyeglass-clamp. G. A. Squier. No. 1,040,045; Oct. 1; Gaz. vol. 183; p. 125.
Eyeglass-cleaner. J. Lederer. No. 1,018,430; Feb. 27; Sp. p. 4865; Gaz. vol. 175; p. 861.
Eyeglass-holder. A. J. Smith. No. 1,016,103; Jan. 30; Sp. p. 6619; Gaz. vol. 174; p. 1150.
Eyeglass-holder. F. R. Bishop. No. 1,024,434; Apr. 23; Sp. p. 5714; Gaz. vol. 177; p. 995.
Eyeglass-holder, Safety. E. W. Dick. No. 1,039,265; Sept. 24; Gaz. vol. 182; p. 794.
Eyeglass-holder. C. Goodwin. No. 1,043,092; Nov. 5; Gaz. vol. 184; p. 15.
Eyeglass-lens. W. K. Kight. No. 1,022,789; Apr. 9; Sp. p. 2225; Gaz. vol. 177; p. 381.
Eyeglass-lens mounting. J. W. Kelley. No. 1,036,639; Aug. 27; Gaz. vol. 181; p. 863.
Eyeglass-lenses, Machine for beveling. B. Habild. No. 1,034,011; July 30; Gaz. vol. 180; p. 1230.
Eyeglass-mounting. A. V. Brown. No. 1,014,116; Jan. 9; Sp. p. 2297; Gaz. vol. 174; p. 383.
Eyeglass-mounting. D. V. Brown. No. 1,014,205; Jan. 9; Sp. p. 2461; Gaz. vol. 174; p. 414.
Eyeglass-mounting. L. F. Adt. No. 1,018,600; Feb. 27; Sp. p. 5294; Gaz. vol. 175; p. 919.
Eyeglass-mounting. L. F. Adt. No. 1,019,115; Mar. 5; Sp. p. 230; Gaz. vol. 176; p. 37.
Eyeglass-mounting. L. F. Adt. No. 1,019,117; Mar. 5; Sp. p. 238; Gaz. vol. 176; p. 38.
Eyeglass-mounting. L. F. Adt. No. 1,019,214; Mar. 5; Sp. p. 459; Gaz. vol. 176; p. 73.
Eyeglass-mounting. J. T. Laughlin. (Reissue.) No. 13,394; Apr. 2; Sp. p. 1335; Gaz. vol. 177; p. 217.
Eyeglass-mounting. J. R. Van Tassel. No. 1,025,847; May 7; Sp. p. 1612; Gaz. vol. 178; p. 255.
Eyeglass-mounting. G. A. Bader. No. 1,027,515; May 28; Sp. p. 5332; Gaz. vol. 178; p. 934.
Eyeglass-mounting. F. A. Persohn. No. 1,030,828; June 25; Sp. p. 6373; Gaz. vol. 179; p. 1064.
Eyeglass-mounting. F. A. Marcher. No. 1,032,488; July 16; Gaz. vol. 180; p. 651.
Eyeglass-mounting. W. R. Uhlemann. No. 1,036,034; Aug. 20; Gaz. vol. 181; p. 619.
Eyeglass-mounting. W. R. Uhlemann. No. 1,036,036; Aug. 20; Gaz. vol. 181; p. 619.
Eyeglass-mounting. G. A. Bader. No. 1,037,849; Sept. 10; Gaz. vol. 182; p. 257.
Eyeglass-mounting. G. A. Bader. No. 1,038,516; Sept. 17; Gaz. vol. 182; p. 519.
Eyeglass-mounting. L. F. Adt. (Reissue.) No. 13,466; Sept. 17; Gaz. vol. 182; p. 707.
Eyeglass-mounting. L. F. Adt. No. 1,040,098; Oct. 1; Gaz. vol. 183; p. 142.
Eyeglass-mounting. L. F. Adt. No. 1,040,099; Oct. 1; Gaz. vol. 183; p. 143.
Eyeglass-mounting. L. F. Adt. No. 1,040,100; Oct. 1; Gaz. vol. 183; p. 143.
Eyeglass-mounting. L. F. Adt. No. 1,040,101; Oct. 1; Gaz. vol. 183; p. 144.
Eyeglass-mounting. G. A. Bader. No. 1,040,607; Oct. 8; Gaz. vol. 183; p. 348.
Eyeglass-mounting. L. F. Adt. No. 1,042,376; Oct. 29; Gaz. vol. 183; p. 1039.
Eyeglass-mounting. G. A. Bader. No. 1,043,289; Nov. 5; Gaz. vol. 184; p. 86.
Eyeglass-mounting. G. A. Bader. No. 1,046,425; Dec. 10; Gaz. vol. 185; p. 255.
Eyeglass-mounting, Finger-piece. D. V. Brown. No. 1,031,319; July 2; Gaz. vol. 180; p. 166.
Eyeglass-mounting guard. I. R. Cohen. No. 1,032,814; July 16; Gaz. vol. 180; p. 762.
Eyeglass nose-clip. H. M. Sacks. No. 1,040,770; Oct. 8; Gaz. vol. 183; p. 405.
Eyeglass nose-grip. W. R. Uhlemann. No. 1,036,035; Aug. 20; Gaz. vol. 181; p. 619.
Eyeglass nose-guard. J. H. Ostrander. No. 1,028,773; June 4; Sp. p. 1517; Gaz. vol. 179; p. 236.
Eyeglass nose-guard. F. A. Stevens. No. 1,035,916; Aug. 20; Gaz. vol. 181; p. 580.
Eyeglass nose-guard. L. F. Adt. No. 1,038,711; Sept. 17; Gaz. vol. 182; p. 587.
Eyeglass nose guard or clip. W. Dengler. No. 1,034,588; Aug. 6; Gaz. vol. 181; p. 62.
Eyeglass-reel. H. B. Bingham. No. 1,024,115; Apr. 23; Sp. p. 5038; Gaz. vol. 177; p. 890.
Eyeglass-reel. C. N. Hiner. No. 1,036,844; Aug. 27; Gaz. vol. 181; p. 931.
Eyeglass-temple attachment. W. S. Searles. No. 1,034,651; Aug. 6; Gaz. vol. 181; p. 82.
Eyeglasses. W. Blume. No. 1,014,938; Jan. 16; Sp. p. 4130; Gaz. vol. 174; p. 696.
Eyeglasses. H. E. Kirstein. No. 1,017,004; Feb. 13; Sp. p. 1722; Gaz. vol. 175; p. 300.
Eyeglasses. L. F. Adt. No. 1,019,116; Mar. 5; Sp. p. 238; Gaz. vol. 176; p. 38.
Eyeglasses. C. Leveque. No. 1,026,272; May 14; Sp. p. 2602; Gaz. vol. 178; p. 436.
Eyeglasses. W. W. Essick. No. 1,026,386; May 14; Sp. p. 2866; Gaz. vol. 178; p. 475.
Eyeglasses. A. A. Day. No. 1,036,581; Aug. 27; Gaz. vol. 181; p. 845.
Eyeglasses. P. H. Herbert. No. 1,036,843; Aug. 27; Gaz. vol. 181; p. 931.
Eyeglasses. L. Poeton. No. 1,038,649; Sept. 17; Gaz. vol. 182; p. 565.
Eyeglasses. N. Caron. No. 1,039,024; Sept. 17; Gaz. vol. 182; p. 693.
Eyeglasses. N. M. Baker. No. 1,039,069; Sept. 17; Gaz. vol. 182; p. 705.
Eyeglasses. H. H. Styll. No. 1,039,462; Sept. 24; Gaz. vol. 182; p. 862.
Eyeglasses. J. R. Van Tassel. No. 1,040,062; Oct. 1; Gaz. vol. 183; p. 130.
Eyeglasses. L. F. Adt. No. 1,040,094; Oct. 1; Gaz. vol. 183; p. 141.
Eyeglasses. L. F. Adt. No. 1,040,095; Oct. 1; Gaz. vol. 183; p. 141.
Eyeglasses. L. F. Adt. No. 1,040,096; Oct. 1; Gaz. vol. 183; p. 142.
Eyeglasses. L. F. Adt. No. 1,040,102; Oct. 1; Gaz. vol. 183; p. 144.
Eyeglasses. L. F. Adt. No. 1,040,103; Oct. 1; Gaz. vol. 183; p. 144.
Eyeglasses. L. F. Adt. No. 1,040,104; Oct. 1; Gaz. vol. 183; p. 145.
Eyeglasses. L. F. Adt. No. 1,040,105; Oct. 1; Gaz. vol. 183; p. 145.
Eyeglasses. S. J. Clulee. No. 1,048,497; Dec. 31; Gaz. vol. 185; p. 1068.
Eyeglasses and spectacles. G. H. Day. No. 1,036,083; Aug. 20; Gaz. vol. 181; p. 638.
Eyeglasses and spectacles. J. C. Wells. No. 1,046,129; Dec. 3; Gaz. vol. 185; p. 114.
Eyeglasses and spectacles, Lens-mounting for. C. F. Wall. No. 1,033,845; July 30; Gaz. vol. 180; p. 1170.
Eyeglasses and spectacles, Repair device for. C. M. Haynes. No. 1,027,417; May 28; Sp. p. 5140; Gaz. vol. 178; p. 902.
Eyeglasses, Arm for supporting the nose-grips of. A. V. Brown. No. 1,019,018; Mar. 5; Sp. p. 11; Gaz. vol. 176; p. 5.
Eyeglasses. Bridge-spring for. L. F. Adt. No. 1,024,814; Apr. 30; Sp. p. 6622; Gaz. vol. 177; p. 1165.
Eyeglasses, Finger-piece. E. C. Bernheim. No. 1,029,262; June 11; Sp. p. 2581; Gaz. vol. 179; p. 438.
Eyeglasses, Folding. E. P. Hutten and J. McDougall. No. 1,016,153; Jan. 30; Sp. p. 6706; Gaz. vol. 174; p. 1165.
Eyeglasses, Instrument for holding. I. Brooke. No. 1,045,119; Nov. 26; Gaz. vol. 184; p. 811.
Eyelet-covering machine. L. Muther. No. 1,022,043; Apr. 2; Sp. p. 622; Gaz. vol. 177; p. 98.
Eyelet-setting machine. L. F. Muther and W. M. Sprye. No. 1,044,410; Nov. 12; Gaz. vol. 184; p. 507.
Eyelet-stay-joining machine. F. L. Anderson. (Reissue.) No. 13,416; May 14; Sp. p. 3413; Gaz. vol. 178; p. 561.

Alphabetical list of inventions—Continued.

Eyelets, Machine-tool for clenching. M. A. A. Edmond-Simonnet. No. 1,018,888; Feb. 27; Sp. p. 5892; Gaz. vol. 175; p. 1016.
Eyeleting-machine. M. H. Pearson. No. 1,013,215; Jan. 2; Sp. p. 266; Gaz. vol. 174; p. 44.
Eyeleting-machine. R. B. Smith. No. 1,017,602; Feb. 13; Sp. p. 2992; Gaz. vol. 175; p. 505.
Eyeleting-machine. F. A. Rumney. No. 1,030,833; June 25; Sp. p. 6387; Gaz. vol. 179; p. 1065.
Eyeleting-machine. J. J. Doidge. No. 1,035,554; Aug. 13; Gaz. vol. 181; p. 421.
Eyeleting-machine, Gang. J. J. Doidge. No. 1,036,808; Aug. 27; Gaz. vol. 181; p. 919.
Eyeleting-machines, &c., Punching mechanism for. R. B. Smith. No. 1,016,717; Feb. 6; Sp. p. 1094; Gaz. vol. 175; p. 168.
Fabric: *See* Astrakhan fabric; Bed-bottom fabric; Bed or couch fabric; Bed-spring fabric; Button-covering fabric; Chain fabric; Chenille fabric; Decorated fabric; Elastic fabric; Fence fabric; Knitted fabric; Lace fabric; Mattress fabric; Mesh fabric; Metal fabric; Metallic link fabric; Pile fabric; Rubber fabric; Spring and couch fabric; Tire fabric; Tubular fabric; Wire fabric; Woven fabric.
Fabric. A. Hopkins. No. 1,019,473; Mar. 5; Sp. p. 1073; Gaz. vol. 176; p. 158.
Fabric and yarn therefor. A. De Laski. (Reissue.) No. 13,393; Apr. 2; Sp. p. 1334; Gaz. vol. 177; p. 217.
Fabric, Apparatus for conditioning adhesive-coated. J. Meade. No. 1,035,218; Aug. 13; Gaz. vol. 181; p. 303.
Fabric band, Laminated cohesive interwound. L. A. Subers. No. 1,017,271; Feb. 13; Sp. p. 2314; Gaz. vol. 175; p. 394.
Fabric-border-forming machine. W. H. Carter. No. 1,020,944; Mar. 19; Sp. p. 4107; Gaz. vol. 176; p. 717.
Fabric-bordering machine. L. N. D. Williams. No. 1,025,176; May 7; Sp. p. 148; Gaz. vol. 178; p. 25.
Fabric-cleaning machine. J. E. Baker. No. 1,028,317; June 4; Sp. p. 555; Gaz. vol. 179; p. 82.
Fabric-coating machine. W. Salisbury. No. 1,023,398; Apr. 16; Sp. p. 3518; Gaz. vol. 177; p. 626.
Fabric constructed of laminated cohesive interwound members. L. A. Subers. No. 1,024,040; Apr. 23; Sp. p. 4866; Gaz. vol. 177; p. 863.
Fabric-drying apparatus. J. H. Schaller. No. 1,038,002; Sept. 10; Gaz. vol. 182; p. 311.
Fabric-forming device, Tubular-. E. D. C. Bayne and L. A. Subers. No. 1,026,648; May 21; Sp. p. 3431; Gaz. vol. 178; p. 599.
Fabric having layers of variable extensibility. L. A. Subers. No. 1,021,014; Mar. 26; Sp. p. 4268; Gaz. vol. 176; p. 792.
Fabric-making machine. G. E. Bigelow. No. 1,043,897; Nov. 12; Gaz. vol. 184; p. 330.
Fabric-marking machine. G. Horváth. No. 1,029,543; June 11; Sp. p. 3186; Gaz. vol. 179; p. 534.
Fabric-marking machine. G. Horváth. No. 1,029,544; June 11; Sp. p. 3188; Gaz. vol. 179; p. 535.
Fabric or cloth. A. H. Henderson. No. 1,020,499; Mar. 19; Sp. p. 3158; Gaz. vol. 176; p. 568.
Fabric, paper, or cardboard having an inclosure of crossing threads, Machine for producing. H. Gueffroy. No. 1,015,174; Jan. 16; Sp. p. 4593; Gaz. vol. 174; p. 775.
Fabric-roll protector. C. J. Rothermel. No. 1,029,947; June 18; Sp. p. 4103; Gaz. vol. 179; p. 712.
Fabric-shrinking machine. E. W. Vincent and E. Croasdale. No. 1,043,742; Nov. 5; Gaz. vol. 184; p. 244.
Fabric-singeing machine. G. Collis. No. 1,043,672; Nov. 5; Gaz. vol. 184; p. 222.
Fabric-testing means. J. R. Gill. No. 1,015,730; Jan. 23; Sp. p. 5816; Gaz. vol. 174; p. 992.
Fabric-treating apparatus, Cotton-. S. M. Krosnowski. No. 1,020,294; Mar. 12; Sp. p. 2734; Gaz. vol. 176; p. 463.
Fabric with rubber, Apparatus for impregnating. W. C. Siverson. No. 1,025,321; May 7; Sp. p. 484; Gaz. vol. 178; p. 75.
Fabrics and spun goods, Finishing, filling, loading, or dressing textile. L. Lilienfeld. No. 1,036,282; Aug. 20; Gaz. vol. 181; p. 709.
Fabrics, Cleansing. H. B. Bishop. No. 1,016,928; Feb. 13; Sp. p. 1540; Gaz. vol. 175; p. 274.
Fabrics, Machine for curling the pile of textile. F. Pearson. No. 1,033,459; July 23; Gaz. vol. 180; p. 1016.
Fabrics, Machine for piling textile. C. J. Priester. No. 1,025,719; May 7; Sp. p. 1352; Gaz. vol. 178; p. 210.
Fabrics, Machine for piling textile. C. J. Priester. No. 1,029,316; June 11; Sp. p. 2700; Gaz. vol. 179; p. 458.
Fabrics, Machine for turning tubular. H. A. Shields. No. 1,030,336; June 25; Sp. p. 4969; Gaz. vol. 179; p. 886.
Fabrics, Manufacture of textile. J. Wilkinson. No. 1,021,712; Mar. 26; Sp. p. 5721; Gaz. vol. 176; p. 1028.
Fabrics, Production of peculiar color effects on textile. M. Becke. No. 1,024,668; Apr. 30; Sp. p. 6315; Gaz. vol. 177; p. 1113.
Fabrics, Treating. A. T. Moore. No. 1,019,909; Mar. 12; Sp. p. 1938; Gaz. vol. 176; p. 336.
Fabrics, Turned-under edge-binding for. A. F. McCollum. No. 1,049,120; Dec. 31; Gaz. vol. 185; p. 1286.
Face-drop. J. S. Anderson. No. 1,025,557; May 7; Sp. p. 1016; Gaz. vol. 178; p. 157.
Face-protector. O. H. McQuary, Jr. No. 1,035,217; Aug. 13; Gaz. vol. 181; p. 303.
Fan. D. B. Minor. No. 1,014,321; Jan. 9; Sp. p. 2733; Gaz. vol. 174; p. 455.
Fan. W. H. Oakes. No. 1,023,272; Apr. 16; Sp. p. 3279; Gaz. vol. 177; p. 585.
Fan. E. E. Blackmer and E. W. Johnson. No. 1,030,561; June 25; Sp. p. 5516; Gaz. vol. 179; p. 965.
Fan. S. S. Rumberg. No. 1,035,240; Aug. 13; Gaz. vol. 181; p. 311.
Fan. H. Surgeoner. No. 1,042,169; Oct. 22; Gaz. vol. 183; p. 944.
Fan. E. A. Gray. No. 1,044,477; Nov. 12; Gaz. vol. 184; p. 495.
Fan. P. M. Franzen. No. 1,047,034; Dec. 10; Gaz. vol. 185; p. 466.
Fan, Air-propelled car-. J. L. Councill, J. E. Tharpe, and T. M. Dale. No. 1,027,462; May 28; Sp. p. 5223; Gaz. vol. 178; p. 916.
Fan and pump casing, Centrifugal. L. B. Cousans. No. 1,019,762; Mar. 12; Sp. p. 1642; Gaz. vol. 176; p. 286.
Fan attachment. L. N. T. Guertin. No. 1,049,081; Dec. 31; Gaz. vol. 185; p. 1272.
Fan attachment for machines. T. G. Griggs. No. 1,042,431; Oct. 29; Gaz. vol. 183; p. 1060.
Fan, Automatic. W. B. Laskey. No. 1,021,536; Mar. 26; Sp. p. 5398; Gaz. vol. 176; p. 972.
Fan, Bed-. R. N. Christian. No. 1,046,265; Dec. 3; Gaz. vol. 185; p. 163.
Fan-blade spring connecting member. O. E. Orstad. No. 1,042,959; Oct. 29; Gaz. vol. 183; p. 1243.
Fan, Blower-. D. H. Cook and E. J. Wilson. No. 1,039,099; Sept. 24; Gaz. vol. 182; p. 734.
Fan casing, Electric-. A. Gregory. No. 1,040,934; Oct. 8; Gaz. vol. 183; p. 457.
Fan, Centrifugal. J. Keith. No. 1,015,274; Jan. 16; Sp. p. 4806; Gaz. vol. 174; p. 809.
Fan, Centrifugal. R. Warg. No. 1,019,385; Mar. 5; Sp. p. 890; Gaz. vol. 176; p. 131.
Fan, Centrifugal. F. R. Still. No. 1,020,725; Mar. 19; Sp. p. 3667; Gaz. vol. 176; p. 645.
Fan, Centrifugal. D. B. Minor. No. 1,020,771; Mar. 19; Sp. p. 3767; Gaz. vol. 176; p. 660.
Fan, Centrifugal. R. Hancock. No. 1,031,180; July 2; Gaz. vol. 180; p. 118.
Fan, Door-. A. Setterberg. No. 1,038,667; Sept. 17; Gaz. vol. 182; p. 571.
Fan-driving mechanism. H. M. Keith. No. 1,023,655; Apr. 16; Sp. p. 4031; Gaz. vol. 177; p. 707.
Fan, Exhaust-. S. Rembert. No. 1,037,659; Sept. 3; Gaz. vol. 182; p. 162.
Fan, Fly-. J. W. Richards, Jr. No. 1,039,196; Sept. 24; Gaz. vol. 182; p. 768.
Fan for baby-carriages. J. Belley. No. 1,027,801; May 28; Sp. p. 5920; Gaz. vol. 178; p. 1028.
Fan for sewing-machines. A. W. Ownby. No. 1,026,923; May 21; Sp. p. 4046; Gaz. vol. 178; p. 694.
Fan, Mechanically-operated. G. A. Jackson. No. 1,037,258; Sept. 3; Gaz. vol. 182; p. 28.
Fan, Motor-driven. T. Abtmeyer. No. 1,018,543; Feb. 27; Sp. p. 5170; Gaz. vol. 175; p. 899.
Fan-motor oscillator. C. Aalborg. No. 1,039,682; Oct. 1; Gaz. vol. 183; p. 3.
Fan or pump, Centrifugal. R. A. Ilg. No. 1,017,215; Feb. 13; Sp. p. 2206; Gaz. vol. 175; p. 375.
Fan, Oscillating. T. Kargau. No. 1,031,853; July 9; Gaz. vol. 180; p. 391.
Fan, Oscillating motor-driven. C. C. Waite. No. 1,026,062; May 14; Sp. p. 2135; Gaz. vol. 178; p. 363.
Fan, Punka-. J. D. F. Andrews. No. 1,027,166; May 21; Sp. p. 4626; Gaz. vol. 178; p. 777.
Fan-wheel, Centrifugal. W. E. Allington. No. 1,025,667; May 7; Sp. p. 1250; Gaz. vol. 178; p. 193.
Fan-wheel, Centrifugal. B. S. Foss. No. 1,038,110; Sept. 10; Gaz. vol. 182; p. 345.
Fans for generating progressing and ascending movements of a body in a fluid medium, Apparatus comprising. M. Reymond. No. 1,024,226; Apr. 23; Sp. p. 5303; Gaz. vol. 177; p. 929.
Fans of motor-vehicles, Means to drive. W. I. Twombly. No. 1,039,223; Sept. 24; Gaz. vol. 182; p. 778.
Fanning-mill. L. M. Anderson. No. 1,031,504; July 2; Gaz. vol. 180; p. 228.
Fanning-mill and grading-machine. P. Schlund. No. 1,031,092; July 2; Gaz. vol. 180; p. 87.
Fare-box. G. B. Kohler. No. 1,032,842; July 16; Gaz. vol. 180; p. 771.
Fare-box. G. B. Kohler. No. 1,032,843; July 16; Gaz. vol. 180; p. 772.
Fare-box. E. S. Bucknam. No. 1,032,876; July 16; Gaz. vol. 180; p. 782.
Fare-box. H. Gebhart. No. 1,041,614; Oct. 15; Gaz. vol. 183; p. 717.
Fare-indicator. A. G. Decker. No. 1,013,279; Jan. 2; Sp. p. 413; Gaz. vol. 174; p. 67.
Fare indicator, Railway or other. O. Oehring. No. 1,034,727; Aug. 6; Gaz. vol. 181; p. 109.
Fare-receipt form, Cash-. W. L. Seelig. No. 1,014,334; Jan. 9; Sp. p. 2766; Gaz. vol. 174; p. 460.
Fare-receptacle. G. C. Stewart. No. 1,047,587; Dec. 17; Gaz. vol. 185; p. 694.

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Fare-recorder. J. J. Joines. No. 1,043,602; Nov. 5; Gaz. vol. 184; p. 198.
Fare-register. A. J. Laland. No. 1,024,343; Apr. 23; Sp. p. 5514; Gaz. vol. 177; p. 966.
Fare-register, Automatic. P. P. Lockling and J. F. Parker. No. 1,044,402; Nov. 12; Gaz. vol. 184; p. 504.
Fare register, Cab-. J. A. Keyes. No. 1,036,259; Aug. 20; Gaz. vol. 181; p. 701.
Fare register, Conductor's cash-. W. W. Kay. (Reissue.) No. 13,373; Feb. 27; Sp. p. 6173; Gaz. vol. 175; p. 1060.
Farm and wagon gate. W. H. Gwin. No. 1,032,894; July 16; Gaz. vol. 180; p. 788.
Farm-gate. H. H. Deutscher. No. 1,013,140; Jan. 2; Sp. p. 99; Gaz. vol. 174; p. 18.
Farm-gate. P. R. Graham. No. 1,015,676; Jan. 23; Sp. p. 5697; Gaz. vol. 174; p. 974.
Farm-gate. W. M. Scotten. No. 1,019,726; Mar. 5; Sp. p. 1559; Gaz. vol. 176; p. 242.
Farm-gate. J. S. Hendricks. No. 1,024,686; Apr. 30; Sp. p. 6360; Gaz. vol. 177; p. 1120.
Farm-gate. H. J. Mitchell. No. 1,028,588; June 4; Sp. p. 1144; Gaz. vol. 179; p. 174.
Farm-gate. C. T. McConnell and E. B. Harris. No. 1,033,336; July 23; Gaz. vol. 180; p. 976.
Farm-gate. C. D. Haldeman. No. 1,033,394; July 23; Gaz. vol. 180; p. 996.
Farm-gate. C. J. Lane. No. 1,035,978; Aug. 20; Gaz. vol. 181; p. 600.
Farm-gate. J. J. Corcoran. No. 1,038,854; Sept. 17; Gaz. vol. 182; p. 637.
Farm-gate. W. D. Baxter. No. 1,047,368; Dec. 17; Gaz. vol. 185; p. 617.
Farm-gate. A. M. Doyle. No. 1,047,925; Dec. 24; Gaz. vol. 185; p. 840.
Farriery implement. S. Lewis, Jr. No. 1,016,571; Feb. 6; Sp. p. 788; Gaz. vol. 175; p. 117.
Farrowing-house. J. Q. Clarke. No. 1,039,255; Sept. 24; Gaz. vol. 182; p. 791.
Fastener: *See* Rail-fastener.
Fastener. K. Aufinson. No. 1,013,469; Jan. 2; Sp. p. 829; Gaz. vol. 174; p. 133.
Fastener. H. E. Robinson. No. 1,037,991; Sept. 10; Gaz. vol. 182; p. 307.
Fastener. W. J. Keary. No. 1,040,957; Oct. 8; Gaz. vol. 183; p. 466.
Fastener. J. H. Boye. No. 1,046,728; Dec. 10; Gaz. vol. 185; p. 365.
Fastener cap, Snap-. H. Kerngood. No. 1,037,263; Sept. 3; Gaz. vol. 182; p. 30.
Fastener, Detachable. W. W. Duncan. No. 1,041,981; Oct. 22; Gaz. vol. 183; p. 882.
Fastener-inserting machine. S. A. Dobyne. No. 1,026,025; May 14; Sp. p. 2032; Gaz. vol. 178; p. 350.
Fastener-inserting-machine work-gage. F. F. Eno. (Reissue.) No. 13,438; July 9; Gaz. vol. 180; p. 566.
Fastener making and driving machine. A. F. Preston. No. 1,030,829; June 25; Sp. p. 6374; Gaz. vol. 179; p. 1064.
Fastener, Snap-. J. P. Williams. No. 1,044,110; Nov. 12; Gaz. vol. 184; p. 404.
Fastener, Snap-. J. P. Williams. No. 1,044,111; Nov. 12; Gaz. vol. 184; p. 404.
Fastener socket and top, Snap-. A. H. Greenebaum. No. 1,041,619; Oct. 15; Gaz. vol. 183; p. 719.
Fastener supplying and delivering mechanism. M. H. Pearson. No. 1,030,531; June 25; Sp. p. 5440; Gaz. vol. 179; p. 956.
Fastener supplying and delivering mechanism. G. Goddu. No. 1,047,202; Dec. 17; Gaz. vol. 185; p. 556.
Fasteners, Making socket members of. J. P. Williams. No. 1,048,776; Dec. 31; Gaz. vol. 185; p. 1167.
Fastening. G. C. Rasch. No. 1,042,601; Oct. 29; Gaz. vol. 183; p. 1120.
Fastening device. A. D. Hyde. No. 1,015,890; Jan. 30; Sp. p. 6160; Gaz. vol. 174; p. 1074.
Fastening device. W. H. Ganss. No. 1,022,132; Apr. 2; Sp. p. 810; Gaz. vol. 177; p. 128.
Fastening device. J. Bayer, Jr. No. 1,023,237; Apr. 16; Sp. p. 3197; Gaz. vol. 177; p. 572.
Fastening device. W. A. Callanan. No. 1,023,502; Apr. 16; Sp. p. 3722; Gaz. vol. 177; p. 658.
Fastening device. J. Hampson. No. 1,025,058; Apr. 30; Sp. p. 7101; Gaz. vol. 177; p. 1248.
Fastening device. C. S. Barbour, Jr. No. 1,031,317; July 2; Gaz. vol. 180; p. 166.
Fastening device. J. J. Dunn. No. 1,031,431; July 2; Gaz. vol. 180; p. 204.
Fastening device. M. S. Fuller. No. 1,039,045; Sept. 17; Gaz. vol. 182; p. 698.
Fastening device. R. V. Sampson and S. T. Danley. No. 1,042,281; Oct. 22; Gaz. vol. 183; p. 980.
Fastening device and fence-post, Combined. C. Obenauf. No. 1,044,231; Nov. 12; Gaz. vol. 184; p. 444.
Fastening device for doors, covers, &c. W. S. Elliott. No. 1,037,747; Sept. 3; Gaz. vol. 182; p. 190.
Fastening device for shoes and the like. J. F. Atwood. (Reissue.) No. 13,392; Apr. 2; Sp. p. 1333; Gaz. vol. 177; p. 216.
Fastening device or toggle. P. C. Lawson. No. 1,019,057; Mar. 5; Sp. p. 94; Gaz. vol. 176; p. 19.
Fastening device. Undergarment-. A. P. Schremp. No. 1,018,009; Feb. 20; Sp. p. 3951; Gaz. vol. 175; p. 684.
Fastening-inserting machine. W. A. Bond. No. 1,014,940; Jan. 16; Sp. p. 4132; Gaz. vol. 174; p. 696.
Fastening-inserting machine. F. L. MacKenzie. No. 1,016,947; Feb. 13; Sp. p. 1592; Gaz. vol. 175; p. 281.
Fastening-inserting machine. A. L. Engberg. No. 1,030,572; June 25; Sp. p. 5559; Gaz. vol. 179; p. 970.
Fastening-inserting machine. G. Goddu. No. 1,030,775; June 25; Sp. p. 6153; Gaz. vol. 179; p. 1043.
Fastening-inserting machine. G. Goddu. No. 1,033,313; July 23; Gaz. vol. 180; p. 969.
Fastening-inserting machine. F. L. MacKenzie. No. 1,045,717; Nov. 26; Gaz. vol. 184; p. 1023.
Fastening-inserting machine. G. Goddu. No. 1,045,784; Nov. 26; Gaz. vol. 184; p. 1046.
Fastening-inserting machine. L. A. Casgrain. No. 1,048,134; Dec. 24; Gaz. vol. 185; p. 909.
Fastening-inserting mechanism. C. D. Foye No. 1,032,329; July 9; Gaz. vol. 180; p. 552.
Fastening-inserting or other machines, Work-support mechanism for. L. A. Casgrain. No. 1,028,434; June 4; Sp. p. 811; Gaz. vol. 179; p. 123.
Fat and impurities from vegetable and animal materials, Removing. J. Stockhausen. No. 1,035,815; Aug. 13; Gaz. vol. 181; p. 508.
Fat compound, Hydrogenated edible. C. Ellis. No. 1,047,013; Dec. 10; Gaz. vol. 185; p. 458.
Fats and unsaturated fatty acids, Reduction of. C. Paal. No. 1,023,753; Apr. 16; Sp. p. 4191; Gaz. vol. 177; p. 736.
Fats, oils, and fish-oils into like bodies of higher melting-point, Converting. M. Wilbuschewitsch. No. 1,024,758; Apr. 30; Sp. p. 6505; Gaz. vol. 177; p. 1145.
Fats or fatty substances, Separating the solid constituents from the liquid constituents of. F. Winterstein and S. Nitsch. No. 1,020,673; Mar. 19; Sp. p. 3550; Gaz. vol. 176; p. 625.
Fatty materials, Hydrogenating C. Ellis. No. 1,026,156; May 14; Sp. p. 2351; Gaz. vol. 178; p. 397.
Faucet. O. Engberg. No. 1,013,142; Jan. 2; Sp. p. 102; Gaz. vol. 174; p. 18.
Faucet. A. B. Roney. No. 1,014,179; Jan. 9; Sp. p. 2412; Gaz. vol. 174; p. 404.
Faucet. J. E. L. Chatillon. No. 1,015,297; Jan. 23; Sp. p. 4870; Gaz. vol. 174; p. 843.
Faucet. H. G. Cordley. No. 1,015,614; Jan. 23; Sp. p. 5565; Gaz. vol. 174; p. 953.
Faucet. A. E. Goodwyn. No. 1,019,317; Mar. 5; Sp. p. 703; Gaz. vol. 176; p. 109.
Faucet. J. E. Tichon. No. 1,019,380; Mar. 5; Sp. p. 881; Gaz. vol. 176; p. 129.
Faucet. A. R. E. Paul. No. 1,019,694; Mar. 5; Sp. p. 1493; Gaz. vol. 176; p. 231.
Faucet. A. A. Bowser. No. 1,020,076; Mar. 12; Sp. p. 2270; Gaz. vol. 176; p. 391.
Faucet. J. A. McKenna. No. 1,020,434; Mar. 19; Sp. p. 3026; Gaz. vol. 176; p. 548.
Faucet. J. H. Boye. No. 1,024,175; Apr. 23; Sp. p. 5177; Gaz. vol. 177; p. 909.
Faucet. C. Wright. No. 1,024,961; Apr. 30; Sp. p. 6923; Gaz. vol. 177; p. 1217.
Faucet. F. A. Dunnebacke and E. A. Harris. No. 1,026,854; May 21; Sp. p. 3879; Gaz. vol. 178; p. 670.
Faucet. H. Forsman. No. 1,029,354; June 11; Sp. p. 2791; Gaz. vol. 179; p. 471.
Faucet. C. Schlatterer. No. 1,029,403; June 11; Sp. p. 2918; Gaz. vol. 179; p. 488.
Faucet. D. E. J. Noonan. No. 1,030,322; June 25; Sp. p. 4935; Gaz. vol. 179; p. 880.
Faucet. F. H. Lippincott. No. 1,032,073; July 9; Gaz. vol. 180; p. 464.
Faucet. L. L. Rowe. No. 1,032,706; July 16; Gaz. vol. 180; p. 726.
Faucet. G. Rogge. No. 1,035,472; Aug. 13; Gaz. vol. 181; p. 393.
Faucet. F. W. Calvert. No. 1,035,856; Aug. 20; Gaz. vol. 181; p. 559.
Faucet. T. W. Burt. No. 1,036,446; Aug. 20; Gaz. vol. 181; p. 765.
Faucet. A. J. Collar. No. 1,040,624; Oct. 8; Gaz. vol. 183; p. 354.
Faucet. R. J. Long. No. 1,043,018; Oct. 29; Gaz. vol. 183; p. 1264.
Faucet. H. R. Corbett. No. 1,044,143; Nov. 12; Gaz. vol. 184; p. 414.
Faucet. C. F. Wray. No. 1,046,531; Dec. 10; Gaz. vol. 185; p. 295.
Faucet and bib-cock. A. J. Gorlick. No. 1,022,071; Apr. 2; Sp. p. 677; Gaz. vol. 177; p. 108.
Faucet and drinking-fountain, Combined basin-. P. S. Hamrick. No. 1,044,648; Nov. 19; Gaz. vol. 184; p. 619.
Faucet and support therefor. W. A. Hull. No. 1,030,306; June 25; Sp. p. 4897; Gaz. vol. 179; p. 874.
Faucet, Beer-. C. E. Weathers. No. 1,042,514; Oct. 29; Gaz. vol. 183; p. 1090.
Faucet, Beer-. L. Hess. No. 1,047,410; Dec. 17; Gaz. vol. 185; p. 629.
Faucet, cock, or the like. C. E. Weeks. No. 1,027,678; May 28; Sp. p. 5664; Gaz. vol. 178; p. 987.

Alphabetical list of inventions—Continued.

Faucet connection. P. F. Zeitlow. No. 1,048,381; Dec. 24; Gaz. vol. 185; p. 991.
Faucet, Filtering-. L. Dion. No. 1,022,470; Apr. 9; Sp. p. 1515; Gaz. vol. 177; p. 272.
Faucet, Filtration-. B. Berger. No. 1,047,137; Dec. 10; Gaz. vol. 185; p. 503.
Faucet hose connection. C. H. Shepherd. No. 1,036,015; Aug. 20; Gaz. vol. 181; p. 612.
Faucet, Lock-. F. M. Ulmer. No. 1,026,725; May 21; Sp. p. 3599; Gaz. vol. 178; p. 625.
Faucet, Locking. B. Falke and E. Walters. No. 1,040,913; Oct. 8; Gaz. vol. 183; p. 451.
Faucet-locking attachment. W. A. Shephard. No. 1,040,040; Oct. 1; Gaz. vol. 183; p. 123.
Faucet, Measuring-. P. H. Smith. No. 1,029,725; June 18; Sp. p. 3607; Gaz. vol. 179; p. 636.
Faucet or bib-cock, Quick-action. P. Nusser. No. 1,036,312; Aug. 20; Gaz. vol. 181; p. 719.
Faucet, Rinsing-. R. M. Elkins. No. 1,023,630; Apr. 16; Sp. p. 3990; Gaz. vol. 177; p. 701.
Faucet, Safety-. W. J. Clarke. No. 1,032,044; July 9; Gaz. vol. 180; p. 455.
Faucet sanitary attachment. C. E. Kells, Jr. No. 1,020,207; Mar. 12; Sp. p. 2568; Gaz. vol. 176; p. 435.
Faucet sanitary attachment. C. E. Kells, Jr. No. 1,043,440; Nov. 5; Gaz. vol. 184; p. 141.
Faucet, Self-closing. J. H. Glauber. No. 1,015,310; Jan. 23; Sp. p. 4897; Gaz. vol. 174; p. 848.
Faucet, Self-closing. J. Mueller. No. 1,024,094; Apr. 23; Sp. p. 4988; Gaz. vol. 177; p. 881.
Faucet, Self-closing. J. H. Glauber. No. 1,027,120; May 21; Sp. p. 4538; Gaz. vol. 178; p. 763.
Faucets, Spray attachment for. T. G. Fischel. No. 1,046,285; Dec. 3; Gaz. vol. 185; p. 170.
Feather articles, Making imitation-. D. Metzger. No. 1,024,272; Apr. 23; Sp. p. 5400; Gaz. vol. 177; p. 945.
Feather-cleaning apparatus, Pneumatic. C. V. Dey. No. 1,026,432; May 14; Sp. p. 2963; Gaz. vol. 178; p. 490.
Feather construction, Artificial-. N. Garfinkle. No. 1,030,072; June 18; Sp. p. 4373; Gaz. vol. 179; p. 754.
Feathers from fowls, Machine for picking pin-. C. W. Smith. No. 1,037,067; Aug. 27; Gaz. vol. 181; p. 1006.
Feathers, Machine for artificially lengthening the barbs of ornamental. H. Kriegsmann. No. 1,022,093; Apr. 2; Sp. p. 724; Gaz. vol. 177; p. 115.
Feed and litter carrier. H. L. Ferris. No. 1,027,715; May 28; Sp. p. 5738; Gaz. vol. 178; p. 1000.
Feed and litter carrier. H. L. Ferris. No. 1,029,984; June 18; Sp. p. 4177; Gaz. vol. 179; p. 724.
Feed-bag. G. Kowalsky. No. 1,016,075; Jan. 30; Sp. p. 6569; Gaz. vol. 174; p. 1140.
Feed-bag. J. Dombroski. No. 1,018,170; Feb. 20; Sp. p. 4312; Gaz. vol. 175; p. 741.
Feed-bag. J. Holitzki. No. 1,021,601; Mar. 26; Sp. p. 5531; Gaz. vol. 176; p. 993.
Feed-bag. A. McMillen. No. 1,022,862; Apr. 9; Sp. p. 2368; Gaz. vol. 177; p. 405.
Feed-bag. H. A. Gruener. No. 1,023,643; Apr. 16; Sp. p. 4010; Gaz. vol. 177; p. 704.
Feed-bag. J. Regeczi. No. 1,023,681; Apr. 16; Sp. p. 4068; Gaz. vol. 177; p. 714.
Feed-bag. P. Szathmáry. No. 1,026,720; May 21; Sp. p. 3582; Gaz. vol. 178; p. 624.
Feed-bag. D. C. Martin. No. 1,026,989; May 21; Sp. p. 4203; Gaz. vol. 178; p. 717.
Feed-bag. A. Schultz. No. 1,029,148; June 11; Sp. p. 2345; Gaz. vol. 179; p. 399.
Feed-bag. S. Savosick. No. 1,029,320; June 11; Sp. p. 2715; Gaz. vol. 179; p. 459.
Feed-bag. P. Piotrowski. No. 1,033,463; July 23; Gaz. vol. 180; p. 1018.
Feed-bag. M. Kadanecz. No. 1,033,705; July 23; Gaz. vol. 180; p. 1096.
Feed-bag. S. Wawrzeniecki. No. 1,037,694; Sept. 3; Gaz. vol. 182; p. 174.
Feed-bag. J. Dulkowski. No. 1,040,655; Oct. 8; Gaz. vol. 183; p. 368.
Feed-bag. W. Sehl. No. 1,042,155; Oct. 22; Gaz. vol. 183; p. 939.
Feed-bag. S. B. Miller. No. 1,044,221; Nov. 12; Gaz. vol. 184; p. 441.
Feed-bag, Animal. H. R. Haskell. No. 1,049,231; Dec. 31; Gaz. vol. 185; p. 1322.
Feed-bag, Automatic. G. Doutney. No. 1,022,183; Apr. 2; Sp. p. 913; Gaz. vol. 177; p. 146.
Feed-bag for horses or other animals. C. E. Benton. No. 1,033,046; July 16; Gaz. vol. 180; p. 839.
Feed-bag holder. C. G. Hayhurst. No. 1,017,542; Feb. 13; Sp. p. 2886; Gaz. vol. 175; p. 487.
Feed-bag support. J. Wright and G. F. Krick. No. 1,018,225; Feb. 20; Sp. p. 4421; Gaz. vol. 175; p. 759.
Feed-box. A. Tonini. No. 1,015,221; Jan. 16; Sp. p. 4681; Gaz. vol. 174; p. 790.
Feed-box. A. W. Wendorf and O. F. Sampe. No. 1,037,093; Aug. 27; Gaz. vol. 181; p. 1014.
Feed-box, Corner. J. Fleury. No. 1,047,777; Dec. 17; Gaz. vol. 185; p. 761.
Feed-cutter. C. F. Haldeman. No. 1,027,537; May 28; Sp. p. 5377; Gaz. vol. 178; p. 942.
Feed-cutter. O. C. Frick. No. 1,043,918; Nov. 12; Gaz. vol. 184; p. 337.
Feed cutter and grinder, Alfalfa-. W. Miks. No. 1,024,413; Apr. 23; Sp. p. 5680; Gaz. vol. 177; p. 989.
Feed device, Hand-operated. C. R. Hare. No. 1,047,936; Dec. 24; Gaz. vol. 185; p. 843.
Feed-distributer for fowls. F. F. Rosenberger and J. T. Hendricks, Jr. No. 1,031,736; July 9; Gaz. vol. 180; p. 351.
Feed-finger mechanism. J. P. Hedstrom. No. 1,031,711; July 9; Gaz. vol. 180; p. 342.
Feed mechanism. W. A. Lorenz and J. Merritt. No. 1,029,760; June 18; Sp. p. 3673; Gaz. vol. 179; p. 648.
Feed-mill. A. Ingraham. No. 1,027,206; May 21; Sp. p. 4708; Gaz. vol. 178; p. 790.
Feed-mill. H. G. McCulloch. No. 1,037,951; Sept. 10; Gaz. vol. 182; p. 294.
Feed-mixing machine. M. F. Williams. No. 1,035,288; Aug. 13; Gaz. vol. 181; p. 328.
Feed-regulator. F. Behrmann. No. 1,023,411; Apr. 16; Sp. p. 3543; Gaz. vol. 177; p. 631.
Feed-regulator. F. Prinz. No. 1,027,432; May 28; Sp. p. 5173; Gaz. vol. 178; p. 906.
Feed-regulator for fine material. G. L. Hoyt. No. 1,014,003; Jan. 9; Sp. p. 2046; Gaz. vol. 174; p. 345.
Feed-trough. S. H. Himes. No. 1,023,018; Apr. 9; Sp. p. 2689; Gaz. vol. 177; p. 459.
Feed-trough. C. A. Gaylor. No. 1,025,392; May 7; Sp. p. 639; Gaz. vol. 178; p. 100.
Feed-trough. J. H. Davis. No. 1,039,653; Sept. 24; Gaz. vol. 182; p. 929.
Feed-trough. W. L. Baugh. No. 1,043,795; Nov. 12; Gaz. vol. 184; p. 294.
Feed-trough. J. S. Hamilton. No. 1,044,172; Nov. 12; Gaz. vol. 184; p. 424.
Feed-trough. E. B. Barth. No. 1,046,943; Dec. 10; Gaz. vol. 185; p. 437.
Feed-trough and water-fountain, Combination. L. Schneider. No. 1,030,130; June 18; Sp. p. 4475; Gaz. vol. 179; p. 773.
Feed-trough, Chicken. G. H. Lee. No. 1,043,609; Nov. 5; Gaz. vol. 184; p. 201.
Feed-trough for animals. H. Hoffman. No. 1,035,588; Aug. 13; Gaz. vol. 181; p. 432.
Feed-water heater. J. S. Sweeny and W. W. Grindle. No. 1,014,919; Jan. 16; Sp. p. 4079; Gaz. vol. 174; p. 689.
Feed-water heater. J. M. Mackie. No. 1,024,641; Apr. 30; Sp. p. 6269; Gaz. vol. 177; p. 1104.
Feed-water heater. D. T. Williams. No. 1,039,000; Sept. 17; Gaz. vol. 182; p. 687.
Feed-water heater. J. Pollock. No. 1,044,909; Nov. 19; Gaz. vol. 184; p. 710.
Feed-water heater, Locomotive. T. F. F. Lee. No. 1,043,848; Nov. 12; Gaz. vol. 184; p. 313.
Feed-water-heating system for multiple-expansion engines. B. V. Nordberg. No. 1,034,026; July 30; Gaz. vol. 180; p. 1236.
Feed-water purifier, Boiler-. A. Mouchin. No. 1,047,829; Dec. 17; Gaz. vol. 185; p. 778.
Feed-water regulator. M. Elkofer. No. 1,020,642; Mar. 19; Sp. p. 3484; Gaz. vol. 176; p. 615.
Feed-water regulator. C. P. Phillips and L. S. Barger. No. 1,037,980; Sept. 10; Gaz. vol. 182; p. 304.
Feed-water regulator. J. J. Dewey. No. 1,045,821; Dec. 3; Gaz. vol. 185; p. 9.
Feed-water regulator, Boiler-. H. K. Gowdy. No. 1,037,240; Sept. 3; Gaz. vol. 182; p. 21.
Feed-water regulator, Boiler-. J. W. Lytton. No. 1,044,676; Nov. 19; Gaz. vol. 184; p. 629.
Feed-water regulator for steam-boilers. H. W. Spencer. No. 1,047,320; Dec. 17; Gaz. vol. 185; p. 600.
Feed-water to boilers for prevention of incrustation, corrosion, or pitting, Mechanical method of treatment of. C. Haythorpe. No. 1,022,365; Apr. 2; Sp. p. 1276; Gaz. vol. 177; p. 205.
Feeder and exerciser, Automatic. J. Wallace. No. 1,048,771; Dec. 31; Gaz. vol. 185; p. 1165.
Feeder and exerciser, Chicken. W. R. Logan. No. 1,019,975; Mar. 12; Sp. p. 2066; Gaz. vol. 176; p. 356.
Feeder and exerciser, Poultry. F. Enos, Jr. No. 1,023,365; Apr. 16; Sp. p. 3443; Gaz. vol. 177; p. 615.
Feeder and grit-separator. L. A. Prochnow. No. 1,019,185; Mar. 5; Sp. p. 395; Gaz. vol. 176; p. 63.
Feeder, Automatic. T. M. Platt. No. 1,021,209; Mar. 26; Sp. p. 4670; Gaz. vol. 176; p. 856.
Feeder, Automatic calf-. J. Rau. No. 1,019,087; Mar. 5; Sp. p. 178; Gaz. vol. 176; p. 29.
Feeder, Automatic poultry-. W. A. Kraxberger and H. J. Laker. No. 1,016,637; Feb. 6; Sp. p. 938; Gaz. vol. 175; p. 140.
Feeder, Automatic poultry-. R. G. Detwiler. No. 1,034,087; July 30; Gaz. vol. 180; p. 1256.
Feeder, Automatic stock and poultry. S. D. Huff. No. 1,020,505; Mar. 19; Sp. p. 3169; Gaz. vol. 176; p. 569.
Feeder, Automatically-operated stock-. B. A. Elliott. No. 1,022,309; Apr. 2; Sp. p. 1156; Gaz. vol. 177; p. 186.
Feeder, Chicken-. G. and A. Nieman. No. 1,029,623; June 18; Sp. p. 3369; Gaz. vol. 179; p. 600.
Feeder, Chicken-. C. Campbell. No. 1,031,773; July 9; Gaz. vol. 180; p. 363.

Alphabetical list of inventions—Continued.

Feeder for chickens, pigeons, and the like, Automatic self-. E. H. Mills. No. 1,027,881; May 28; Sp. p. 6148; Gaz. vol. 178; p. 1056.
Feeder for steam boilers and generators. C. C. Worthington. No. 1,026,192; May 14; Sp. p. 2433; Gaz. vol. 178; p. 408.
Feeder for steam boilers or generators. C. C. Worthington. No. 1,026,191; May 14; Sp. p. 2426; Gaz. vol. 178; p. 408.
Feeder, fountain, and heater, Combination. L. M. and M. L. Anderson. No. 1,023,352; Apr. 16; Sp. p. 3423; Gaz. vol. 177; p. 611.
Feeder, Hog-. J. H. Thornburg. No. 1,031,397; July 2; Gaz. vol. 180; p. 192.
Feeder, Poultry-. W. H. Watson. No. 1,013,707; Jan. 2; Sp. p. 1365; Gaz. vol. 174; p. 213.
Feeder, Poultry-. A. H. Baker. No. 1,020,790; Mar. 19; Sp. p. 3801; Gaz. vol. 176; p. 666.
Feeder, Poultry-. F. B. Miller. No. 1,023,325; Apr. 16; Sp. p. 3380; Gaz. vol. 177; p. 603.
Feeder, Poultry-. T. Garrison. No. 1,026,859; May 21; Sp. p. 3888; Gaz. vol. 178; p. 671.
Feeder, Poultry-. V. V. Moore. No. 1,036,882; Aug. 27; Gaz. vol. 181; p. 943.
Feeder, Poultry-. M. W. Lawlor. No. 1,038,766; Sept. 17; Gaz. vol. 182; p. 606.
Feeder, Poultry-. G. K. Gillette. No. 1,045,783; Nov. 26; Gaz. vol. 184; p. 1045.
Feeder, Poultry-. G. G. Bacon. No. 1,046,938; Dec. 10; Gaz. vol. 185; p. 435.
Feeder, Steam-boiler. J. H. Alfredson. No. 1,036,408; Aug. 20; Gaz. vol. 181; p. 753.
Feeder, Stock-. R. A. Williams. No. 1,036,762; Aug. 27; Gaz. vol. 181; p. 903.
Feeder, Stock and poultry. W. M. Logsdon and J. Dunbar. No. 1,049,111; Dec. 31; Gaz. vol. 185; p. 1282.
Feeder, Time stock-. G. T. Melson. No. 1,014,163; Jan. 9; Sp. p. 2383; Gaz. vol. 174; p. 398.
Feeders, Automatic cut-off for boiler-. C. C. Tozier. No. 1,013,463; Jan. 2; Sp. p. 816; Gaz. vol. 174; p. 130.
Feeding and positioning mechanism. F. R. Harris. No. 1,044,454; Nov. 12; Gaz. vol. 184; p. 521.
Feeding and watering device, Poultry. W. C. Wilson. No. 1,025,225; May 7; Sp. p. 257; Gaz. vol. 178; p. 43.
Feeding apparatus. A. R. Hoffmann. No. 1,034,240; July 30; Gaz. vol. 180; p. 1310.
Feeding apparatus. O. Durstewitz. No. 1,038,733; Sept. 17; Gaz vol. 182; p. 595.
Feeding apparatus. A. R. Hoffmann. No. 1,042,115; Oct. 22; Gaz. vol. 183; p. 926.
Feeding apparatus, Automatic poultry-. F. R. Parks. No. 1,019,080; Mar. 5; Sp. p. 157; Gaz. vol. 176; p. 26.
Feeding appliance, Poultry-. J. I. Lee. No. 1,023,945; Apr. 23; Sp. p. 4674; Gaz. vol. 177; p. 830.
Feeding device. W. S. Howell. No. 1,017,758; Feb. 20; Sp. p. 3327; Gaz. vol. 175; p. 595.
Feeding-device attachment. R. L. Wilcox. No. 1,036,048; Aug. 20; Gaz. vol. 181; p. 624.
Feeding-machine. J. J. Green. No. 1,019,040; Mar. 5; Sp. p. 62; Gaz. vol. 176; p. 13.
Feeding mechanism. F. G. Jahn. No. 1,018,058; Feb. 20; Sp. p. 4056; Gaz. vol. 175; p. 701.
Feeding mechanism. H. J. Douglass. No. 1,022,581; Apr. 9; Sp. p. 1745; Gaz. vol. 177; p. 308.
Feeding mechanism. F. W. Lev. No. 1,025,282; May 7; Sp. p. 379; Gaz. vol. 178; p. 61.
Feeding mechanism. J. T. Wallace. No. 1,027,018; May 21; Sp. p. 4271; Gaz. vol. 178; p. 727.
Feeding mechanism. W. Pippert. No. 1,031,195; July 2; Gaz. vol. 180; p. 123.
Feeding mechanism, Boiler-compound-. W. White. No. 1,025,224; May 7; Sp. p. 255; Gaz. vol. 178; p. 42.
Feeding mechanism, Material-. H. Zimmerman. No. 1,034,555; Aug. 6; Gaz. vol. 181; p. 52.
Feeding-stuff. C. Ellis. No. 1,018,415; Feb. 27; Sp. p. 4837; Gaz. vol. 175; p. 857.
Feeding-stuff. C. Ellis. No. 1,019,734; Mar. 5; Sp. p. 1573; Gaz. vol. 176; p. 245.
Feeding-table, Automatic. C. W. H. Blood. No. 1,041,234; Oct. 15; Gaz. vol. 183; p. 593.
Feeding trough, Portable horse-. F. L. Meyer. No. 1,049,256; Dec. 31; Gaz. vol. 185; p. 1331.
Feldspar, Treating. H. W. Morse and L. W. Sargent. No. 1,041,327; Oct. 15; Gaz. vol. 183; p. 626.
Felly-expander. A. C. Fernholz. No. 1,046,576; Dec. 10; Gaz. vol. 185; p. 310.
Felting-machine. A. Turner. No. 1,033,042; July 16; Gaz. vol. 180; p. 837.
Fence. C. E. Frederick. No. 1,043,311; Nov. 5; Gaz. vol. 184; p. 95.
Fence-anchor. W. P. Grannis. No. 1,027,123; May 21; Sp. p. 4545; Gaz. vol. 178; p. 764.
Fence-anchor. S. M. MacNab. No. 1,047,097; Dec. 10; Gaz. vol. 185; p. 487.
Fence and wall construction. J. E. Conzelman. No. 1,045,519; Nov. 26; Gaz. vol. 184; p. 953.
Fence builder, Wire-. W. S. Hazelton. No. 1,036,231; Aug. 20; Gaz. vol. 181; p. 691.
Fence-clamp. J. M. Dillon. No. 1,046,450; Dec. 10; Gaz. vol. 185; p. 264.
Fence clamp, Wire-. W. C. Dunn. No. 1,027,109; May 21; Sp. p. 4508; Gaz. vol. 178; p. 759.
Fence clamp, Wire-. W. M. Dillon. No. 1,045,958; Dec. 3; Gaz. vol. 185; p. 55.
Fence controller, Wire-. H. A. Cohrs. No. 1,031,622; July 2; Gaz. vol. 180; p. 268.
Fence fabric. R. C. Hess. No. 1,035,965; Aug. 20; Gaz. vol. 181; p. 596.
Fence fabric, Wire-. J. W. Page. No. 1,023,439; Apr. 16; Sp. p. 3592; Gaz. vol. 177; p. 639.
Fence-gate. P. Mast. No. 1,044,214; Nov. 12; Gaz. vol. 184; p. 439.
Fence machine, Wire-. G. A. Raymond. No. 1,025,307; May 7; Sp. p. 436; Gaz. vol. 178; p. 70.
Fence machine, Wire-. E. E. Brown. No. 1,025,858; May 7; Sp. p. 1632; Gaz. vol. 178; p. 259.
Fence machine, Wire-. F. H. Nullmeyer and C. A. Porath. No. 1,035,809; Aug. 13; Gaz. vol. 181; p. 506.
Fence machine, Wire-. J. L. Claudin. No. 1,041,742; Oct. 22; Gaz. vol. 183; p. 798.
Fence machine, Wire-. A. L. Kitselman. No. 1,047,078; Dec. 10; Gaz. vol. 185; p. 480.
Fence machine, Wire-. C. H. Haisley. No. 1,047,125; Dec. 10; Gaz. vol. 185; p. 499.
Fence machine, Wire-. P. A. and W. V. Reid. No. 1,047,292; Dec. 17; Gaz. vol. 185; p. 590.
Fence machines, Clamp-drum for wire-. P. A. and W. V. Reid. No. 1,047,565; Dec. 17; Gaz. vol. 185; p. 686.
Fence, Portable. C. B. Johnson. No. 1,034,461; Aug. 6; Gaz. vol. 181; p. 20.
Fence, Portable. E. J. Woodford. No. 1,038,470; Sept. 10; Gaz. vol. 182; p. 470.
Fence-post. H. F. Abbott. No. 1,013,578; Jan. 2; Sp. p. 1050; Gaz. vol. 174; p. 169.
Fence-post. W. A. Pepper. No. 1,015,206; Jan. 16; Sp. p. 4660; Gaz. vol. 174; p. 786.
Fence-post. H. E. Stoley. No. 1,015,651; Jan. 23; Sp. p. 5654; Gaz. vol. 174; p. 966.
Fence-post. G. H. White. No. 1,017,833; Feb. 20; Sp. p. 3537; Gaz. vol. 175; p. 622.
Fence-post. J. C. Sparr and E. A. Marchant. No. 1,018,527; Feb. 27; Sp. p. 5132; Gaz. vol. 175; p. 894.
Fence-post. G. G. Anderson. No. 1,020,872; Mar. 19; Sp. p. 3981; Gaz. vol. 176; p. 693.
Fence-post. J. W. Golden. No. 1,022,314; Apr. 2; Sp. p. 1169; Gaz. vol. 177; p. 188.
Fence-post. W. L. Rubeck. No. 1,023,880; Apr. 23; Sp. p. 4507; Gaz. vol. 177; p. 807.
Fence-post. J. M. Kissinger and S. H. J. Heffner. No. 1,024,858; Apr. 30; Sp. p. 6712; Gaz. vol. 177; p. 1182.
Fence-post. W. C. Gambrel. No. 1,027,470; May 28; Sp. p. 5238; Gaz. vol. 178; p. 919.
Fence-post. J. E. and D. P. Stryker. No. 1,028,630; June 4; Sp. p. 1223; Gaz. vol. 179; p. 188.
Fence-post. J. W. Hough. No. 1,033,322; July 23; Gaz. vol. 180; p. 972.
Fence-post. B. E. Clifford. No. 1,033,987; July 30; Gaz. vol. 180; p. 1221.
Fence-post. P. K. Bushnell. No. 1,036,447; Aug. 20; Gaz. vol. 181; p. 766.
Fence-post. L. Slaback and G. C. McGlaughlin. No. 1,037,345; Sept. 3; Gaz. vol. 182; p. 55.
Fence-post. H. H. Bell. No. 1,037,415; Sept. 3; Gaz. vol. 182; p. 80.
Fence-post. W. A. Torney. No. 1,037,687; Sept. 3; Gaz. vol. 182; p. 172.
Fence-post. A. C. Harrison. No. 1,038,573; Sept. 17; Gaz. vol. 182; p. 538.
Fence-post. C. H. Myers. No. 1,041,848; Oct. 22; Gaz. vol. 183; p. 837.
Fence-post. R. B. F. Barton. No. 1,042,754; Oct. 29; Gaz. vol. 183; p. 1174.
Fence-post. G. Schneider. No. 1,044,921; Nov. 19; Gaz. vol. 184; p. 715.
Fence-post. H. P. White. No. 1,045,486; Nov. 26; Gaz. vol. 184; p. 940.
Fence-post. J. W. Swenson. No. 1,046,676; Dec. 10; Gaz. vol. 185; p. 345.
Fence-post. J. C. B. Wood and K. F. Deskins. No. 1,047,361; Dec. 17; Gaz. vol. 185; p. 615.
Fence-post. C. A. Buskirk. No. 1,048,941; Dec. 31; Gaz. vol. 185; p. 1223.
Fence post and fastening. A. J. McGavick. No. 1,019,817; Mar. 12; Sp. p. 1738; Gaz. vol. 176; p. 304.
Fence-post and fence-fastening. A. J. McGavick. No. 1,019,816; Mar. 12; Sp. p. 1737; Gaz. vol. 176; p. 304.
Fence-post brace. J. Heyerly. No. 1,025,060; Apr. 30; Sp. p. 7105; Gaz. vol. 177; p. 1249.
Fence-post brace. H. Wagner. No. 1,030,497; June 25; Sp. p. 5325; Gaz. vol. 179; p. 943.
Fence-post brace. M. Logan. No. 1,034,808; Aug. 6; Gaz. vol. 181; p. 138.
Fence-post brace. B. Jones. No. 1,047,649; Dec. 17; Gaz. vol. 185; p. 716.
Fence-post, Cement. J. Huber. No. 1,016,151; Jan. 30; Sp. p. 6703; Gaz. vol. 174; p. 1165.
Fence-post, Double. D. C. Crocker. No. 1,034,983; Aug. 6; Gaz. vol. 181; p. 194.
Fence-post-driving machine. O. Burhop. No. 1,015,421; Jan. 23; Sp. p. 5153; Gaz. vol. 174; p. 885.

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Fence-post, Metal. J. C. Larsen. No. 1,030,411; June 25; Sp. p. 5119; Gaz. vol. 179; p. 913.
Fence-post, Metallic. J. Huber. No. 1,021,409; Mar. 26; Sp. p. 5131; Gaz. vol. 176; p. 928.
Fence-post, Metallic. B. Schulz. No. 1,027,442; May 28; Sp. p. 5190; Gaz. vol. 178; p. 910.
Fence-post, Metallic. E. C. Kahn. No. 1,048,414; Dec. 24; Gaz. vol. 185; p. 1001.
Fence-post mold. T. H. Kruse. No. 1,022,484; Apr. 9; Sp. p. 1541; Gaz. vol. 177; p. 277.
Fence-post point, Detachable. C. Johnson. No. 1,038,147; Sept. 10; Gaz. vol. 182; p. 358.
Fence-posts of plastic material, Apparatus for making reinforced. J. N. Caldwell. No. 1,025,508; May 7; Sp. p. 895; Gaz. vol. 178; p. 140.
Fence-posts, Staple-attaching device for molded. F. L. Flack. No. 1,029,859; June 18; Sp. p. 3918; Gaz. vol. 179; p. 682.
Fence-posts, Wire-fastener for metallic. H. L. Hartley. No. 1,039,531; Sept. 24; Gaz. vol. 182; p. 887.
Fence-reeling device, Wire-. M. Moore. No. 1,041,142; Oct. 15; Gaz. vol. 183; p. 562.
Fence-repairing implement. M. F. Mead. No. 1,021,324; Mar. 26; Sp. p. 4911; Gaz. vol. 176; p. 898.
Fence, Snow-. J. I. Iblings. No. 1,026,806; May 21; Sp. p. 3773; Gaz. vol. 178; p. 653.
Fence stay, Wire-. H. Loewenthal. No. 1,023,258; Apr. 16; Sp. p. 3244; Gaz. vol. 177; p. 580.
Fence stretcher, Wire-. W. J. Montgomery. No. 1,023,749; Apr. 16; Sp. p. 4184; Gaz. vol. 177; p. 735.
Fence-stretching clamp, Wire-. J. W. Taylor. No. 1,023,229; Apr. 16; Sp. p. 3180; Gaz. vol. 177; p. 569.
Fence structure. D. A. Goodrich. No. 1,048,451; Dec. 24; Gaz. vol. 185; p. 1014.
Fence-supporting truss, Wire-. J. C. Calhoun. No. 1,034,416; Aug. 6; Gaz. vol. 181; p. 6.
Fence, telegraph, and other post. J. W. Morrow. No. 1,025,823; May 7; Sp. p. 1568; Gaz. vol. 178; p. 248.
Fence tool, Wire-. P. H. Merrill. No. 1,015,503; Jan. 23; Sp. p. 5330; Gaz. vol. 174; p. 914.
Fence tool, Wire-. H. Lynch. No. 1,044,551; Nov. 19; Gaz. vol. 184; p. 585.
Fence, Wire. D. H. Miller. No. 1,019,071; Mar. 5; Sp. p. 140; Gaz. vol. 176; p. 23.
Fence, Wire. J. H. Downs. No. 1,023,509; Apr. 16; Sp. p. 3733; Gaz. vol. 177; p. 661.
Fence-wire fastener. M. J. Burkhart. No. 1,020,259; Mar. 12; Sp. p. 2663; Gaz. vol. 176; p. 452.
Fence-wire stretcher. W. F. Goolsby. No. 1,018,313; Feb. 20; Sp. p. 4591; Gaz. vol. 175; p. 788.
Fence-wire support. H. A. Schultz. No. 1,030,131; June 18; Sp. p. 4477; Gaz. vol. 179; p. 774.
Fence, Woven-wire. A. Schneider. No. 1,014,525; Jan. 9; Sp. p. 3148; Gaz. vol. 174; p. 523.
Fences and other uses, Anchor for wire. D. M. Burns, W. B. and A. W. Shriver. No. 1,014,806; Jan. 16; Sp. p. 3819; Gaz. vol. 174; p. 650.
Fender: *See* Auto-fender; Automobile-fender; Car-fender; Car or other vehicle fender; Clod-fender; Cultivator-fender; Fireplace-fender; Spring-fender; Vehicle-fender; Wheel-fender.
Fender. J. M. W. Heitmann. No. 1,018,316; Feb. 20; Sp. p. 4596; Gaz. vol. 175; p. 789.
Fender. A. H. Luebke. No. 1,022,372; Apr. 2; Sp. p. 1288; Gaz. vol. 177; p. 208.
Fender. F. N. Lephart. No. 1,023,083; Apr. 9; Sp. p. 2828; Gaz. vol. 177; p. 481.
Fender. C. Cefalo and R. C. H. Reid. No. 1,026,655; May 21; Sp. p. 3448; Gaz. vol. 178; p. 601.
Fender. W. G. Naughton. No. 1,028,056; May 28; Sp. p. 6504; Gaz. vol. 178; p. 1113.
Fender. W. Heinig. No. 1,028,119; June 4; Sp. p. 51; Gaz. vol. 179; p. 12.
Fender. W. F. O'Rourke. No. 1,031,957; July 9; Gaz. vol. 180; p. 427.
Fender. A. Tift. No. 1,033,750; July 23; Gaz. vol. 180; p. 1110.
Fender. J. F. Hunter. No. 1,040,335; Oct. 8; Gaz. vol. 183; p. 253.
Fender. W. T. McDonald. No. 1,042,459; Oct. 29; Gaz. vol. 183; p. 1070.
Fender. C. Seibold. No. 1,046,659; Dec. 10; Gaz. vol. 185; p. 339.
Fender. C. H. Wegner. No. 1,046,917; Dec. 10; Gaz. vol. 185; p. 428.
Fender and apron, Combined. S. M. and E. G. Teeter. No. 1,022,278; Apr. 2; Sp. p. 1099; Gaz. vol. 177; p. 176.
Fender or wheel-guard. F. E. Hutchings. No. 1,018,563; Feb. 27; Sp. p. 5219; Gaz. vol. 175; p. 907.
Fermentation process for the production of acetone and higher alcohols. A. Fernbach and E. H. Strange. No. 1,044,368; Nov. 12; Gaz. vol. 184; p. 492.
Fermentation processes, Manufacture and production of a nutrient medium for use in. A. Fernbach and E. H. Strange. No. 1,044,446; Nov. 12; Gaz. vol. 184; p. 518.
Fermentation processes, Manufacture and production of a nutrient medium for use in. A. Fernbach and E. H. Strange. No. 1,044,447; Nov. 12; Gaz. vol. 184; p. 518.
Ferrule for rake-handles. L. H. Zeigler. No. 1,025,501; May 7; Sp. p. 883; Gaz. vol. 178; p. 137.
Ferrule, Metal. W. W. Turner. No. 1,034,539; Aug. 6; Gaz. vol. 181; p. 46.
Ferrules, Tool for inserting and withdrawing screwed. E. C. and J. Jenkins. No. 1,030,732; June 25; Sp. p. 6033; Gaz. vol. 179; p. 1027.
Fertilizer and making same. S. B. Newberry and H. N. Barrett. No. 1,042,588; Oct. 29; Gaz. vol. 183; p. 1116.
Fertilizer and producing the same. L. R. Coates. No. 1,024,880; Apr. 30; Sp. p. 6755; Gaz. vol. 177; p. 1189.
Fertilizer-distributer. J. M. Brasington. No. 1,014,044; Jan. 9; Sp. p. 2143; Gaz. vol. 174; p. 358.
Fertilizer-distributer. G. C. Pate. No. 1,020,571; Mar. 19; Sp. p. 3319; Gaz. vol. 176; p. 592.
Fertilizer-distributer. E. Christopher. No. 1,022,062; Apr. 2; Sp. p. 659; Gaz. vol. 177; p. 105.
Fertilizer-distributer. S. R. Sikes. No. 1,023,532; Apr. 16; Sp. p. 3774; Gaz. vol. 177; p. 667.
Fertilizer-distributer. C. B. Clark. No. 1,027,594; May 28; Sp. p. 5493; Gaz. vol. 178; p. 960.
Fertilizer-distributer. C. Gormley. No. 1,032,132; July 9; Gaz. vol. 180; p. 483.
Fertilizer-distributer. P. A. Lewis and H. N. Faas. No. 1,032,553; July 16; Gaz. vol. 180; p. 672.
Fertilizer-distributer. J. C. Sparks. No. 1,032,959; July 16; Gaz. vol. 180; p. 808.
Fertilizer-distributer. L. B. Barth. No. 1,033,297; July 23; Gaz. vol. 180; p. 964.
Fertilizer-distributer. S. D. Adkins. No. 1,033,650; July 23; Gaz. vol. 180; p. 1079.
Fertilizer-distributer. T. E. Hudson. No. 1,035,195; Aug. 13; Gaz. vol. 181; p. 296.
Fertilizer distributer. W. Maxwell and J. M. Allen. No. 1,036,668; Aug. 27; Gaz. vol. 181; p. 874.
Fertilizer-distributer. G. W. Smith. No. 1,036,922; Aug 27; Gaz. vol. 181; p. 956.
Fertilizer-distributer. J. H. Sellers. No. 1,042,286; Oct. 22; Gaz. vol. 183; p. 982.
Fertilizer-distributer. D. H. and E. L. Melton. No. 1,043,124; Nov. 5; Gaz. vol. 184; p. 26.
Fertilizer-distributer and cotton-seed planter. Combined. L. P. Oswalt. No. 1,023,752; Apr. 16; Sp. p. 4190; Gaz. vol. 177; p. 736.
Fertilizer-distributer and planter. C. B. Clark. No. 1,027,593; May 28; Sp. p. 5489; Gaz. vol. 178; p. 960.
Fertilizer-distributer and pulverizer, Combined. W. H. Kuhns. No. 1,013,298; Jan. 2; Sp. p. 471; Gaz. vol. 174; p. 73.
Fertilizer-distributing attachment. W. A. Dalton. No. 1,040,642; Oct. 8; Gaz. vol. 183; p. 363.
Fertilizer-feed, Adjustable cone for. C. E. Lutz. No. 1,024,796; Apr. 30; Sp. p. 6592; Gaz. vol. 177; p. 1159.
Fertilizer, Making. S. B. Newberry and H. N. Barrett. No. 1,020,153; Mar. 12; Sp. p. 2439; Gaz. vol. 176; p. 416.
Fertilizer, Making. S. B. Newberry and H. N. Barrett. No. 1,032,763; July 16; Gaz. vol. 180; p. 745.
Fertilizer, Making. S. M. Doolittle. No. 1,045,130; Nov. 26; Gaz. vol. 184; p. 815.
Fertilizer-mixer. A. B. Pickett. No. 1,036,327; Aug. 20; Gaz. vol. 181; p. 724.
Fertilizer-mixer. H. G. Hersey. No. 1,046,295; Dec. 3; Gaz. vol. 185; p. 173.
Fertilizers by aid of fermentation, Rendering mineral substances available as. G. F. Lawton. No. 1,029,378; June 11; Sp. p. 2848; Gaz. vol. 179; p. 479.
Fertilizers, Making. L. Saarbach. No. 1,036,909; Aug. 27; Gaz. vol. 181; p. 952.
Fertilizers, Preparing land-. C. H. Bash, Jr. No. 1,048,454; Dec. 24; Gaz. vol. 185; p. 1016.
Fertilizers, Utilizing lime-mud in the manufacture of. H. A. Galt. No. 1,016,989; Feb. 13; Sp. p. 1695; Gaz. vol. 175; p. 296.
Fertilizing vegetable growth. A. J. Rossi. No. 1,032,432; July 16; Gaz. vol. 180; p. 631.
Fettering maniacs and criminals, Apparatus for. R. Steimer. No. 1,047,457; Dec. 17; Gaz. vol. 185; p. 647.
Fiber-bearing and other plants, Apparatus for treatment of. G. W. Schlichten. No. 1,021,269; Mar. 26; Sp. p. 4805; Gaz. vol. 176; p. 877.
Fiber bleaching and treating, Flax-. F. E. Burgess. No. 1,034,195; July 30; Gaz. vol. 180; p. 1293.
Fiber-cleaning machine. A. Pons. No. 1,046,641; Dec. 10; Gaz. vol. 185; p. 332.
Fiber collecting and assorting apparatus. M. E. Ryan. No. 1,024,148; Apr. 23; Sp. p. 5122; Gaz. vol. 177; p. 900.
Fiber, Decorating. H. P. Taber. No. 1,036,163; Aug. 20; Gaz. vol. 181; p. 666.
Fiber, Extracting vegetable. C. L. Weiberg. No. 1,025,435; May 7; Sp. p. 718; Gaz. vol. 178; p. 114.
Fiber-yielding materials, Treating. C. F. Sammet and J. L. Merrill. No. 1,016,178; Jan. 30; Sp. p. 6748; Gaz. vol. 174; p. 1173.

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Fibers and materials, Treatment of vegetable. W. Schewelin. No. 1,020,625; Mar. 19; Sp. p. 3446; Gaz. vol. 176; p. 609.
Fibers into threads of silky appearance, Converting vegetable. J. M. J. Debourg. No. 1,018,650; Feb. 27; Sp. p. 5401; Gaz. vol. 175; p. 935.
Fibers of kapok and other plants, Treating brittle vegetable. E. G. Stark. No. 1,023,890; Apr. 23; Sp. p. 4531; Gaz. vol. 177; p. 811.
Fibers, Producing fast brown resists on vegetable. C. Pilz. No. 1,041,511; Oct. 15; Gaz. vol. 183; p. 685.
Fibers, Retting vegetable. L. Peufaillit. No. 1,034,502; Aug. 6; Gaz. vol. 181; p. 34.
Fibrous composition and making the same. G. A. Henderson. No. 1,040,321; Oct. 8; Gaz. vol. 183; p. 249.
Fibrous material, Machine for breaking and cleaning. W. A. and A. M. Shely. No. 1,047,998; Dec. 24; Gaz. vol. 185; p. 862.
Fibrous materials, Apparatus for treating. W. M. Grosvenor. No. 1,019,319; Mar. 5; Sp. p. 706; Gaz. vol. 176; p. 110.
Fibrous materials, Automatic machine for treating. T. Allsop and W. W. Sibson. No. 1,047,874; Dec. 17; Gaz. vol. 185; p. 793.
Fibrous materials, Classifier for. R. M. Evans. No. 1,036,475; Aug. 20; Gaz. vol. 181; p. 774.
Fibrous substances, like asbestos, and hydraulic binding substances, Manufacture of plates from. H. Klee. No. 1,039,413; Sept. 24; Gaz. vol. 182; p. 845.
Field-glass-supporting attachment. H. Neuburger. No. 1,018,771; Feb. 27; Sp. p. 5656; Gaz. vol. 175; p. 977.
Fieldless motor. F. L. South. No. 1,019,544; Mar. 5; Sp. p. 1222; Gaz. vol. 176; p. 182.
Fifth-wheel. G. W. and J. Fieldes. No. 1,034,605; Aug. 6; Gaz. vol. 181; p. 67.
Fifth-wheel for fertilizer-distributers. R. Love. No. 1,019,064; Mar. 5; Sp. p. 109; Gaz. vol. 176; p. 21.
Fifth-wheel, Vehicle. E. Pryor. No. 1,016,580; Feb. 6; Sp. p. 808; Gaz. vol. 175; p. 120.
Fifth-wheel, Vehicle. F. E. Wilcox. No. 1,022,013; Apr. 2; Sp. p. 563; Gaz. vol. 177; p. 88.
Fifth-wheel, Vehicle. W. A. White. No. 1,046,357; Dec. 3; Gaz. vol. 185; p. 195.
Figure, Dancing. W. J. Nickerson. No. 1,023,589; Apr. 16; Sp. p. 3902; Gaz. vol. 177; p. 687.
Filament apparatus. S. Ferguson. No. 1,023,305; Apr. 16; Sp. p. 3336; Gaz. vol. 177; p. 596.
Filament, Conductive. H. Lyon. No. 1,026,401; May 14; Sp. p. 2900; Gaz. vol. 178; p. 480.
Filament connection. F. Skaupy. No. 1,013,962; Jan. 9; Sp. p. 1958; Gaz. vol. 174; p. 332.
Filament connection. J. W. Howell. No. 1,022,482; Apr. 9; Sp. p. 1537; Gaz. vol. 177; p. 276.
Filament-forming machine. L. E. Dempster. No. 1,024,185; Apr. 23; Sp. p. 5211; Gaz. vol. 177; p. 913.
Filament holder, Lamp-. L. Glaser. No. 1,022,543; Apr 9; Sp. p. 1665; Gaz. vol. 177; p. 296.
Filament, Incandescent. D. Hand. No. 1,013,599; Jan. 2; Sp. p. 1099; Gaz. vol. 174; p. 177.
Filament, Incandescent-lamp. G. R. Holmes. No. 1,014,878; Jan. 16; Sp. p. 3994; Gaz. vol. 174; p. 675.
Filament, Incandescent-lamp. C. A. Hansen. No. 1,026,392; May 14; Sp. p. 2878; Gaz. vol. 178; p. 477.
Filament, Metal. M. A. Hunter. No. 1,023,315; Apr. 16; Sp. p. 3362; Gaz. vol. 177; p. 599.
Filament, Metal. W. D. Coolidge. No. 1,026,382; May 14; Sp. p. 2861; Gaz. vol. 178; p. 474.
Filament, Metal. W. D. Coolidge. No. 1,026,383; May 14; Sp. p. 2862; Gaz. vol. 178; p. 474.
Filament, Metal. W. D. Coolidge. No. 1,026,384; May 14; Sp. p. 2863; Gaz. vol. 178; p. 474.
Filament-support. W. R. Burrows. No. 1,013,859; Jan. 9; Sp. p. 1714; Gaz. vol. 174; p. 296.
Filament-support. J. W. Howell. No. 1,017,546; Feb. 13; Sp. p. 2891; Gaz. vol. 175; p. 488.
Filament-support. J. W. Howell. No. 1,024,898; Apr. 30; Sp. p. 6797; Gaz. vol. 177; p. 1195.
Filament-support. J. W. Howell. No. 1,040,333; Oct. 8; Gaz. vol. 183; p. 252.
Filament support, Incandescent-lamp-. G. W. Beadle. No. 1,046,722; Dec. 10; Gaz. vol. 185; p. 363.
Filament-treating apparatus. W. D. Coolidge. No. 1,026,345; May 14; Sp. p. 2772; Gaz. vol. 178; p. 462.
Filament, Tubular metalized. M. A. Hunter. No. 1,025,469; May 7; Sp. p. 811; Gaz. vol. 178; p. 126.
Filaments and feed-wires of electric incandescent lamps, Connection between metallic. F. Hanaman. No. 1,046,780; Dec. 10; Gaz. vol. 185; p. 383.
Filaments and heaters, Apparatus for the manufacture of incandescent-lamp. R. W. Baker. No. 1,040,116; Oct. 1; Gaz. vol. 183; p. 149.
Filaments and other products obtained from cellulose compounds. L. Lederer. No. 1,028,748; June 4; Sp. p. 1472; Gaz. vol. 179; p. 227.
Filaments for electric incandescent lamps, Manufacture of exceedingly-thin metallic glowing. A. Lederer. No. 1,035,883; Aug. 20; Gaz. vol. 181; p. 569.
Filaments for electric incandescent lamps, Support for metallic glow-. A. Lederer. No. 1,047,541; Dec. 17; Gaz. vol. 185; p. 676.
Filaments for incandescence lighting, Manufacture of metallic. C. H. Weber. No. 1,016,804; Feb. 6; Sp. p. 1271; Gaz. vol. 175; p. 195.
Filaments for incandescent electric lamps, Manufacture of metallic. H. Bresler. No. 1,023,295; Apr. 16; Sp. p. 3315; Gaz. vol. 177; p. 593.
Filaments for incandescent electric lamps, Manufacture of tungsten. A. Lederer. No. 1,047,540; Dec. 17; Gaz. vol. 185; p. 676.
Filaments, Forming device for metallic. H. W. Jackson. No. 1,018,500; Feb. 27; Sp. p. 5027; Gaz. vol. 175; p. 885.
Filaments, Machine for manufacturing supports for incandescent-lamp. G. W. Beadle. No. 1,046,724; Dec. 10; Gaz. vol. 185; p. 363.
Filaments, Manufacturing carborundum. F. C. Thoms. No. 1,048,231; Dec. 24; Gaz. vol. 185; p. 940.
Filaments, Manufacturing incandescent-lamp. H. Kužel. No. 1,030,666; June 25; Sp. p. 5876; Gaz. vol. 179; p. 1005.
Filaments, Manufacturing lamp-. W. D. Coolidge. No. 1,047,502; Dec. 17; Gaz. vol. 185; p. 663.
Filaments, Mounting. E. P. Beckwith. No. 1,023,357; Apr. 16; Sp. p. 3431; Gaz. vol. 177; p. 613.
Filaments, Mounting and soldering electrical. S. Marietti. No. 1,029,383; June 11; Sp. p. 2857; Gaz. vol. 179; p. 481.
Filaments, Mounting tungsten. C. F. Scott. No. 1,013,227; Jan. 2; Sp. p. 304; Gaz. vol. 174; p. 48.
Filaments of electric lamps, Drying cement clamps for. H. W. Bresler. No. 1,024,923; Apr. 30; Sp. p. 6852; Gaz. vol. 177; p. 1204.
Filaments of incandescent electric lamps on their supports, Apparatus for winding the. G. Dobkevitch. No. 1,039,657; Sept. 24; Gaz. vol. 182; p. 931.
Filaments, Plastic mass for metallic. K. Farkas. No. 1,041,262; Oct. 15; Gaz. vol. 183; p. 604.
Filaments, Producing metal. W. C. Arsem. No. 1,034,949; Aug. 6; Gaz. vol. 181; p. 184.
Filaments, Shaping. R. W. Suman. No. 1,013,572; Jan. 2; Sp. p. 1039; Gaz. vol. 174; p. 167.
Filaments, Shaping and mounting. K. Schröter. No. 1,013,958; Jan. 9; Sp. p. 1949; Gaz. vol. 174; p. 330.
Filaments to leading-in wires, Fusing lamp-. J. W. Howell. No. 1,022,553; Apr. 9; Sp. p. 1691; Gaz. vol. 177; p. 298.
Filaments to metal wires, Welding. J. W. Howell. No. 1,022,554; Apr. 9; Sp. p. 1692; Gaz. vol. 177; p. 299.
Filaments, Treating. H. I. Wood. No. 1,027,165; May 21; Sp. p. 4624; Gaz. vol. 178; p. 776.
File. A. Vernaz. No. 1,042,728; Oct. 29; Gaz. vol. 183; p. 1164.
File, Account-. J. F. Huber. No. 1,015,444; Jan. 23; Sp. p. 5201; Gaz. vol. 174; p. 894.
File, Account-. W. J. Hainer. No. 1,037,476; Sept. 3; Gaz. vol. 182; p. 102.
File, Bill-. F. J. Kristofek. No. 1,041,818; Oct. 22; Gaz. vol. 183; p. 827.
File box or drawer. W. C. Weis. No. 1,030,625; June 25; Sp. p. 5768; Gaz. vol. 179; p. 991.
File-cabinet. W. E. Ryan. No. 1,029,231; June 11; Sp. p. 2515; Gaz. vol. 179; p. 427.
File-cabinet. R. W. Wood. No. 1,038,703; Sept. 17; Gaz. vol. 182; p. 584.
File, Clipping-. J. H. Neuhauser. No. 1,037,296; Sept. 3; Gaz. vol. 182; p. 39.
File-compressor. E. Ohnstrand. No. 1,036,515; Aug. 20; Gaz. vol. 181; p. 789.
File, Document-. A. B. and C. L. Johnson. No. 1,016,634; Feb. 6; Sp. p. 933; Gaz. vol. 175; p. 139.
File, Document-. A. Pardoe, Jr. No. 1,048,577; Dec. 31; Gaz. vol. 185; p. 1096.
File, Gin-saw. J. H. Wesson. No. 1,041,211; Oct. 15; Gaz. vol. 183; p. 586.
File, Nail-. J. L. Sommer. No. 1,030,492; June 25; Sp. p. 5312; Gaz. vol. 179; p. 941.
File, Office paper-. F. G. Gantner. No. 1,038,341; Sept. 10; Gaz. vol. 182; p. 423.
File or like tool. H. Puppe. No. 1,035,736; Aug. 13; Gaz. vol. 181; p. 481.
File, Paper-. P. H. Yawman. No. 1,022,456; Apr. 9; Sp. p. 1496; Gaz. vol. 177; p. 267.
File, Paper-. J. W. Almond. No. 1,026,549; May 14; Sp. p. 3199; Gaz. vol. 178; p. 528.
File, Record-. W. J. Clark. No. 1,041,593; Oct. 15; Gaz. vol. 183; p. 711.
File, Self-locking paper-. A. A. McDonald. No. 1,033,915; July 30; Gaz. vol. 180; p. 1195.
Files, Partition or guide for. P. H. Yawman. No. 1,013,533; Jan. 2; Sp. p. 1179; Gaz. vol. 174; p. 188.
Filing appliance. W. H. Muzzy. No. 1,031,021; July 2; Gaz. vol. 180; p. 60.
Filing arrangement or system, Card-. A. E. Gott. No. 1,043,688; Nov. 5; Gaz. vol. 184; p. 227.
Filing-cabinet. A. S. Batrick. No. 1,013,922; Jan. 9; Sp. p. 1858; Gaz. vol. 174; p. 318.
Filing-cabinet. I. F. Burton. No. 1,016,247; Feb. 6; Sp. p. 5; Gaz. vol. 175; p. 4.
Filing-cabinet. F. W. Ackerman. No. 1,017,239; Feb. 13; Sp. p. 2251; Gaz. vol. 175; p. 383.

Alphabetical list of inventions—Continued.

Filing-cabinet. L. S. Weaver and W. F. Altenbaugh. No. 1,021,025; Mar. 26; Sp. p. 4288; Gaz. vol. 176; p. 797.
Filing-cabinet. L. F. Fee. No. 1,026,792; May 21; Sp. p. 3749; Gaz. vol. 178; p. 648.
Filing-cabinet. J. M. Musil. No. 1,045,317; Nov. 26; Gaz. vol. 184; p. 879.
Filing-cabinet. F. W. Ilges. No 1,045,557; Nov. 26; Gaz. vol. 184; p. 966.
Filing-cabinet, Combination. W. O. Mueller and G. F. Ahlering. No. 1,045,316; Nov. 26; Gaz. vol. 184; p. 879.
Filing-cabinet-drawer-locking mechanism. A. T. Weiss. No. 1,031,751; July 9; Gaz. vol. 180; p. 356.
Filing-cabinet unit. M. P. Exline. No. 1,038,331; Sept. 10; Gaz. vol. 182; p. 420.
Filing-cabinets, Indicator-marker for. A. and J. Cahn. No. 1,031,321; July 2; Gaz. vol. 180; p. 167.
Filing-case. W. T. Callaghan. No. 1,021,090; Mar. 26; Sp. p. 4423; Gaz. vol. 176; p. 819.
Filing-case. G. A. Chambers. No. 1,023,297; Apr. 16; Sp. p. 3317; Gaz. vol. 177; p. 593.
Filing-case. R. H. Langdale. No. 1,030,898; July 2; Gaz. vol. 180; p. 17.
Filing-case. J. F. Dunleavy. No. 1,044,032; Nov. 12; Gaz. vol. 184; p. 377.
Filing device. A. T. Elwell. No. 1,026,346; May 14; Sp. p. 2775; Gaz. vol. 178; p. 463.
Filing device. A. F. Staples. No. 1,028,300; June 4; Sp. p. 514; Gaz. vol. 179; p. 75.
Filing device. P. S. Millice. No. 1,032,491; July 16; Gaz. vol. 180; p. 652.
Filing device. A. F. Staples. No. 1,036,740; Aug. 27; Gaz. vol. 181; p. 896.
Filing device. F. Howard. No. 1,037,912; Sept. 10; Gaz. vol. 182; p. 280.
Filing device. W. H. F. Wood. No. 1,043,889; Nov. 12; Gaz. vol. 184; p. 327.
Filing device. A. McKinney and N. Richardson. No. 1,043,952; Nov. 12; Gaz. vol. 184; p. 350.
Filing device for account-slips, &c. C. W. Zimmer. No. 1,048,023; Dec. 24; Gaz. vol. 185; p. 870.
Filing device, Letter-. C. Smith. No. 1,016,789; Feb. 6; Sp. p. 1244; Gaz. vol. 175; p. 192.
Filing loose leaves, Arrangement for. A. Krautheim. No. 1,020,990; Mar. 26; Sp. p. 4226; Gaz. vol. 176; p. 785.
Filing-machine. S. W. Gooch. No. 1,047,889; Dec. 17; Gaz. vol. 185; p. 799.
Filing-machine. S. W. Gooch. No. 1,048,683; Dec. 31; Gaz. vol. 185; p. 1135.
Filing-machine. S. W. Gooch. No. 1,048,684; Dec. 31; Gaz. vol. 185; p. 1135.
Filing-receptacle. M. Wiesner. No. 1,013,630; Jan. 2; Sp. p. 1172; Gaz. vol. 174; p. 186.
Filing system. H. E. Prosser. No. 1,033,193; July 23; Gaz. vol. 180; p. 928.
Filing unit, Metal. A. H. Schaffert. No. 1,029,466; June 11; Sp. p. 3041; Gaz. vol. 179; p. 509.
Fill and vent fitting device. H. M. Bowser. No. 1,020,077; Mar. 12; Sp. p. 2274; Gaz. vol. 176; p. 391.
Fillers, Machine for making. L. P. Brown. No. 1,023,989; Apr. 23; Sp. p. 4761; Gaz. vol. 177; p. 844.
Filling and capping machines, Transferring mechanism for. F. S. Radack. No. 1,047,288; Dec. 17; Gaz. vol. 185; p. 588.
Filling-detectors, Locking device for mechanical. G. F. Hutchins. No. 1,035,590; Aug. 13; Gaz. vol. 181; p. 433.
Filling, weighing, and packing apparatus. N. B. Converse. No. 1,029,669; June 18; Sp. p. 3461; Gaz. vol. 179; p. 615.
Fillet-making machine. A. F. Howe. No. 1,027,131; May 21; Sp. p. 4560; Gaz. vol. 178; p. 766.
Film-camera. F. M. Steadman and H. W. Hales. No. 1,032,867; July 16; Gaz. vol. 180; p. 779.
Film-carrier. E. Brinkmann. No. 1,034,967; Aug. 6; Gaz. vol. 181; p. 189.
Film developing, fixing, and washing apparatus. F. F. Nyč. No. 1,031,459; July 2; Gaz. vol. 180; p. 212.
Film, Flexible. A. W. Anderson. No. 1,033,517; July 23; Gaz. vol. 180; p. 1035.
Film-frame apparatus, Micrometric printing-. B. Day. No. 1,031,627; July 2; Gaz. vol. 180; p. 270.
Film-mending machine. E. J. Schafer. No. 1,044,258; Nov. 12; Gaz. vol. 184; p. 454.
Film or film-like material, Supporting frame or rack for. K. Kiesen. No. 1,034,467; Aug. 6; Gaz. vol. 181; p. 22.
Film-pack. R. Schüttauf. No. 1,015,514; Jan. 23; Sp. p. 5347; Gaz. vol. 174; p. 917.
Film-reel-fastening device. S. M. Aughinbaugh. No. 1,048,270; Dec. 24; Gaz. vol. 185; p. 953.
Films, Examination, treatment, or the like of liquid. C. V. Boys. No. 1,048,801; Dec. 31; Gaz. vol. 185; p. 1176.
Filter. K. Kiefer. No. 1,015,326; Jan. 23; Sp. p. 4939; Gaz. vol. 174; p. 854.
Filter. C. E. Singer. No. 1,017,476; Feb. 13; Sp. p. 2763; Gaz. vol. 175; p. 466.
Filter. S. L. Goldman. No. 1,017,867; Feb. 20; Sp. p. 3619; Gaz. vol. 175; p. 633.
Filter. J. D. Ramsey. No. 1,020,053; Mar. 12; Sp. p. 2224; Gaz. vol. 176; p. 383.
Filter. J. N. Sisley. No. 1,021,076; Mar. 26; Sp. p. 4389; Gaz. vol. 176; p. 814.
Filter. C. and C. S. Hines. No. 1,022,136; Apr. 2; Sp. p. 819; Gaz. vol. 177; p. 129.
Filter. K. Kiefer. No. 1,023,254; Apr. 16; Sp. p. 3232; Gaz. vol. 177; p. 578.
Filter. M. A. Moore. No. 1,028,054; May 28; Sp. p. 6500; Gaz. vol. 178; p. 1112.
Filter. S. S. Montanye. No. 1,028,377; June 4; Sp. p. 686; Gaz. vol. 179; p. 104.
Filter. G. de Brandner. No. 1,028,535; June 4; Sp. p. 1029; Gaz. vol. 179; p. 156.
Filter. B. Danziger. No. 1,029,915; June 18; Sp. p. 4042; Gaz. vol. 179; p. 702.
Filter. P. Suykerbuyk. No. 1,031,886; July 9; Gaz. vol. 180; p. 403.
Filter. O. Laughlin. No. 1,033,329; July 23; Gaz. vol. 180; p. 974.
Filter. M. R. Buckley. No. 1,034,194; July 30; Gaz. vol. 180; p. 1293.
Filter. E. Seavey. No. 1,035,248; Aug. 13; Gaz. vol. 181; p. 314.
Filter. W. H. McMurtry. No. 1,035,890; Aug. 20; Gaz. vol. 181; p. 572.
Filter. C. B. Houser, Jr. No. 1,037,145; Aug. 27; Gaz. vol. 181; p. 1032.
Filter. B. W. Traylor. No. 1,037,561; Sept. 3; Gaz. vol. 182; p. 130.
Filter. R. P. Johnson. No. 1,038,382; Sept. 10; Gaz. vol. 182; p. 437.
Filter. J. S. Mullennix. No. 1,038,417; Sept. 10; Gaz. vol. 182; p. 451.
Filter. E. Zahm. No. 1,040,090; Oct. 1; Gaz. vol. 183; p. 140.
Filter. L. D. Van Valkenburg. No. 1,041,915; Oct. 22; Gaz. vol. 183; p. 860.
Filter. B. A. Kantrowitz. No. 1,042,233; Oct. 22; Gaz. vol. 183; p. 965.
Filter. E. Nixon and E. S. Parker. No. 1,042,793; Oct. 29; Gaz. vol. 183; p. 1187.
Filter. W. W. Nugent. No. 1,044,074; Nov. 12; Gaz. vol. 184; p. 392.
Filter. F. H. Sauer. No. 1,045,616; Nov. 26; Gaz. vol. 184; p. 987.
Filter. B. A. Kantrowitz. No. 1,047,070; Dec. 10; Gaz. vol. 185; p. 478.
Filter. W. H. McMurtry. No. 1,047,101; Dec. 10; Gaz. vol. 185; p. 489.
Filter. M. S. Hopkins. No. 1,047,413; Dec. 17; Gaz. vol. 185; p. 631.
Filter. C. E. Ballow. No. 1,048,384; Dec. 24; Gaz. vol. 185; p. 992.
Filter apparatus. B. W. Traylor. No. 1,029,155; June 11; Sp. p. 2356; Gaz. vol. 179; p. 402.
Filter, Color-. J. A. H. Hatt. No. 1,013,937; Jan. 9; Sp. p. 1898; Gaz. vol. 174; p. 323.
Filter, Continuous rotary. A. A. Holland. No. 1,036,847; Aug. 27; Gaz. vol. 181; p. 933.
Filter, Faucet-. L. A. Mason. No. 1,016,757; Feb. 6; Sp. p. 1174; Gaz. vol. 175; p. 181.
Filter for domestic water-supply, Self-cleaning. R. Adams. No. 1,033,858; July 30; Gaz. vol. 180; p. 1175.
Filter for oil, grease, and other substances. G. G. Scurfield. No. 1,039,451; Sept. 24; Gaz. vol. 182; p. 857.
Filter for saccharine juices. G. Boesel. No. 1,035,680; Aug. 13; Gaz. vol. 181; p. 463.
Filter, Fuel-oil. J. R. Tourangeau. No. 1,028,304; June 4; Sp. p. 524; Gaz. vol. 179; p. 77.
Filter, Gas-. W. J. Tinker. No. 1,020,782; Mar. 19; Sp. p. 3787; Gaz. vol. 176; p. 663.
Filter, Gasolene-. C. A. Port, J. E. O'Neal, and D. E. Motz. No. 1,032,240; July 9; Gaz. vol. 180; p. 522.
Filter, Gasolene-. F. H. Stubbe. No. 1,035,653; Aug. 13; Gaz. vol. 181; p. 454.
Filter, Gasolene-. E. L. Crum. No. 1,040,283; Oct. 8; Gaz. vol. 183; p. 235.
Filter, Grease-. H. D. Nobles. No. 1,014,843; Jan. 16; Sp. p. 3914; Gaz. vol. 174; p. 663.
Filter, Household gas-. J. P. Farmer. No. 1,040,914; Oct. 8; Gaz. vol. 183; p. 451.
Filter, Oil-. J. E. Jones. No. 1,017,100; Feb. 13; Sp. p. 1949; Gaz. vol. 175; p. 335.
Filter, Oil-. J. E. Munyan. No. 1,035,807; Aug. 13; Gaz. vol. 181; p. 505.
Filter-press, Automatic. E. H. Alvord. (Reissue.) No. 13,351; Jan. 9; Sp. p. 3401; Gaz. vol. 174; p. 560.
Filter-press, Automatic. R. Lemmon and R. P. Holmes. No. 1,047,093; Dec. 10; Gaz. vol. 185; p. 486.
Filter-press ring. G. Ely. No. 1,031,920; July 9; Gaz. vol. 180; p. 414.
Filter, Pressure-. E. J. Sweetland. No. 1,032,091; July 9; Gaz. vol. 180; p. 470.
Filter-pulp-washing machine. K. Kiefer. No. 1,036,123; Aug. 20; Gaz. vol. 181; p. 652.
Filter, Sanitary pressure-. R. W. Martin. No. 1,015,051; Jan. 16; Sp. p. 4373; Gaz. vol. 174; p. 734.
Filter, Siphon-. J. A. Case. No. 1,042,317; Oct. 22; Gaz vol. 183; p. 992.

Alphabetical list of inventions—Continued.

Filter system. H. G. Miller. No. 1,013,419; Jan. 2; Sp. p. 730; Gaz. vol. 174; p. 115.
Filter, Water-. D. M. Pfautz. No. 1,013,435; Jan. 2; Sp. p. 761; Gaz. vol. 174; p. 120.
Filter, Water-. W. R. Hildebrand. No. 1,043,933; Nov. 12; Gaz. vol. 184; p. 342.
Filters and the like, Means for controlling the discharge of liquid from. W. Paterson. No. 1,035,999; Aug. 20; Gaz. vol. 181; p. 607.
Filters, Making. H. Passow. No. 1,027,754; May 28; Sp. p. 5807; Gaz. vol. 178; p. 1012.
Filters, Sterilizing. E. Zahm. No. 1,023,488; Apr. 16; Sp. p. 3693; Gaz. vol. 177; p. 654.
Filtering apparatus. D. J. Kelly. No. 1,015,961; Jan. 30; Sp. p. 6311; Gaz. vol. 174; p. 1098.
Filtering apparatus. B. József. No. 1,020,986; Mar. 26; Sp. p. 4222; Gaz. vol. 176; p. 784.
Filtering apparatus. D. J. Kelly. No. 1,024,082; Apr. 23; Sp. 4949; Gaz. vol. 177; p. 877.
Filtering apparatus. H. E. Kier. No. 1,026,917; May 21; Sp. p. 4031; Gaz. vol. 178; p. 692.
Filtering apparatus. L. C. Trent. No. 1,042,295; Oct. 22; Gaz. vol. 183; p. 985.
Filtering apparatus. P. C. C. Isherwood. No. 1,043,939; Nov. 12; Gaz. vol. 184; p. 345.
Filtering apparatus. J. M. Neil. No. 1,045,095; Nov. 19; Gaz. vol. 184; p. 775.
Filtering apparatus, Slimes-. D. J. Kelly. No. 1,015,960; Jan. 30; Sp. p. 6305; Gaz. vol. 174; p. 1097.
Filtering-can and the like. J. F. Hocker. No. 1,028,023; May 28; Sp. p. 6425; Gaz. vol. 178; p. 1102.
Filtering-machine, Vacuum. C. K. Barnes. No. 1,036,174; Aug. 20; Gaz. vol. 181; p. 670.
Filtering press, Fluid-. P. Krassa. No. 1,042,803; Oct. 29; Gaz. vol. 183; p. 1190.
Filtration. J. M. Neil. No. 1,043,455; Nov. 5; Gaz. vol. 184; p. 147.
Filtration and supply system, Water. L. E. Smith. No. 1,026,612; May 14; Sp. p. 3330; Gaz. vol. 178; p. 550.
Finger-cot, Flexible metallic. J. N. Skaggs. No. 1,036,017; Aug. 20; Gaz. vol. 181; p. 613.
Finger-exerciser. J. R. Manners. No. 1,027,871; May 28; Sp. p. 6133; Gaz. vol. 178; p. 1053.
Finger-exercising machine. H. G. Leland. No. 1,023,573; Apr. 16; Sp. p. 3871; Gaz. vol. 177; p. 681.
Finger-nail cleaner. G. Walther. No. 1,015,860; Jan. 30; Sp. p. 6092; Gaz. vol. 174; p. 1062.
Finger-ring. E. G. Harrop. No. 1,018,663; Feb. 27; Sp. p. 5420; Gaz. vol. 175; p. 939.
Finish-removing process. C. Ellis. No. 1,014,752; Jan. 16; Sp. p. 3696; Gaz. vol. 174; p. 631.
Finishes, Composition for removing surface-. G. Dosselman and P. Neymann. No. 1,014,211; Jan. 9; Sp. p. 2479; Gaz. vol. 174; p. 417.
Finishing-machine. R. W. Thomson. No. 1,025,549; May 7; Sp. p. 995; Gaz. vol. 178; p. 154.
Fire-alarm. R. Urchniak and G. Werhnjak. No. 1,014,922; Jan. 16; Sp. p. 4091; Gaz. vol. 174; p. 690.
Fire-alarm. J. Enright. No. 1,015,878; Jan. 30; Sp. p. 6127; Gaz. vol. 174; p. 1069.
Fire-alarm. T. Bell and E. Brophy. No. 1,020,074; Mar. 12; Sp. p. 2268; Gaz. vol. 176; p. 390.
Fire-alarm. C. G. Carlson. No. 1,023,123; Apr. 16; Sp. p. 2941; Gaz. vol. 177; p. 533.
Fire-alarm. A. Guenette. No. 1,031,336; July 2; Gaz. vol. 180; p. 171.
Fire-alarm. B. S. Harrington and S. T. Allen. No. 1,043,228; Nov. 5; Gaz. vol. 184; p. 65.
Fire-alarm apparatus, Automatic. G. F. Emch. No. 1,029,179; June 11; Sp. p. 2401; Gaz. vol. 179; p. 409.
Fire-alarm, Automatic. J. B. Loughead. No. 1,018,509; Feb. 27; Sp. p. 5049; Gaz. vol. 175; p. 887.
Fire-alarm, Automatic. S. M. Kohr. No. 1,021,609; Mar. 26; Sp. p. 5542; Gaz. vol. 176; p. 995.
Fire-alarm, Automatic. M. Gibson. No. 1,031,707; July 9; Gaz. vol. 180; p. 340.
Fire-alarm, Automatic. M. Lehtonen. No. 1,035,365; Aug. 13; Gaz. vol. 181; p. 357.
Fire-alarm, Automatic. Y. M. Westmoreland. No. 1,039,863; Oct. 1; Gaz. vol. 183; p. 65.
Fire-alarm, Automatic. J. Mosmann. No. 1,042,025; Oct. 22; Gaz. vol. 183; p. 897.
Fire-alarm box, Auxiliarized. F. W. Cole. No. 1,016,401; Feb. 6; Sp. p. 370; Gaz. vol. 175; p. 58.
Fire-alarm-box mechanism. C. F. Klein and E. A. Pyles. No. 1,049,308; Dec. 31; Gaz. vol. 185; p. 1349.
Fire-alarm, Electric. E. H. Moe. No. 1,019,270; Mar. 5; Sp. p. 577; Gaz. vol. 176; p. 92.
Fire-alarm signaling apparatus. J. V. Shier, Sr., and J. La Vergne, Sr. No. 1,043,975; Nov. 12; Gaz. vol. 184; p. 358.
Fire-alarm signaling means. C. Noack. No. 1,039,996; Oct. 1; Gaz. vol. 183; p. 108.
Fire-alarm system. D. G. Dee. No. 1,015,789; Jan. 30; Sp. p. 5944; Gaz. vol. 174; p. 1040.
Fire-alarm system, Automatic. A. H. McNeil. No. 1,047,264; Dec. 17; Gaz. vol. 185; p. 579.
Fire-alarm systems, False-alarm detector for. G. H. Inman. No. 1,018,564; Feb. 27; Sp. p. 5222; Gaz. vol. 175; p. 908.
Fire and burglar alarm. M. J. Gregory. No. 1,017,095; Feb. 13; Sp. p. 1941; Gaz. vol. 175; p. 333.
Fire and water proof articles, Producing. G. S. Donahey. No. 1,015,426; Jan. 23; Sp. p. 5163; Gaz. vol. 174; p. 887.
Fire apparatus. H. Pines. No. 1,018,338; Feb. 20; Sp. p. 4634; Gaz. vol. 175; p. 796.
Fire apparatus, Piston-pump for auto. A. C. Webb. No. 1,018,795; Feb. 27; Sp. p. 5697; Gaz. vol. 175; p. 985.
Fire box and grate. Z. F. Jones. No. 1,027,610; May 28; Sp. p. 5523; Gaz. vol. 178; p. 966.
Fire-box, Downdraft. S. M. Vauclain and G. R. Henderson. No. 1,028,642; June 4; Sp. p. 1249; Gaz. vol. 179; p. 192.
Fire-bridge. W. E. Curran. No. 1,014,377; Jan. 9; Sp. p. 2874; Gaz. vol. 174; p. 475.
Fire-bucket. A. E. Waggoner. No. 1,024,609; Apr. 30; Sp. p. 6194; Gaz. vol. 177; p. 1093.
Fire-bucket support. M. A. Stewart. No. 1,027,011; May 21; Sp. p. 4254; Gaz. vol. 178; p. 725.
Fire-door. T. E. Collins. No. 1,029,912; June 18; Sp. p. 4035; Gaz. vol. 179; p. 701.
Fire-door. A. Blauvelt. No. 1,033,376; July 23; Gaz. vol. 180; p. 990.
Fire-door. H. C. Waldman. No. 1,034,848; Aug. 6; Gaz. vol. 181; p. 151.
Fire-door closer, Automatic. J. A. Bunce. No. 1,035,314; Aug. 13; Gaz. vol. 181; p. 328.
Fire-door lock. H. G. Voight. No. 1,047,900; Dec. 17; Gaz. vol. 185; p. 802.
Fire-engine, Automobile. H. M. Gabel. No. 1,047,197; Dec. 17; Gaz. vol. 185; p. 554.
Fire-engine, Motor. J. M. Schoonmaker, Jr. No. 1,013,622; Jan. 2; Sp. p. 1152; Gaz. vol. 174; p. 183.
Fire-escape. A. D. Wilson. No. 1,014,685; Jan. 16; Sp. p. 3564; Gaz. vol. 174; p. 610.
Fire-escape. H. Grünbaum. No. 1,015,173; Jan. 16; Sp. p. 4591; Gaz. vol. 174; p. 774.
Fire-escape. J. L. Gillmore. No. 1,015,485; Jan. 23; Sp. p. 5298; Gaz. vol. 174; p. 908.
Fire-escape. A. Hansel. No. 1,015,560; Jan. 23; Sp. p. 5449; Gaz. vol. 174; p. 933.
Fire-escape. E. Snyder. No. 1,016,299; Feb. 6; Sp. p. 137; Gaz. vol. 175; p. 21.
Fire-escape. A. Perlman. No. 1,016,437; Feb. 6; Sp. p. 459; Gaz. vol. 175; p. 70.
Fire-escape. H. J. Walters. No. 1,016,859; Feb. 6; Sp. p. 1383; Gaz. vol. 175; p. 214.
Fire-escape. E. C. Welsh. No. 1,020,065; Mar. 12; Sp. p. 2252; Gaz. vol. 176; p. 387.
Fire-escape. M. Rodriguez y Fonoll. No. 1,021,336; Mar. 26; Sp. p. 4945; Gaz. vol. 176; p. 903.
Fire-escape. T. H. Elliott. No. 1,021,361; Mar. 26; Sp. p. 4990; Gaz. vol. 176; p. 911.
Fire-escape. V. W. Heydlauff. No. 1,022,417; Apr. 9; Sp. p. 1381; Gaz. vol. 177; p. 253.
Fire-escape. R. Sideman. No. 1,022,568; Apr. 9; Sp. p. 1718; Gaz. vol. 177; p. 303.
Fire-escape. J. Stephan. No. 1,026,285; May 14; Sp. p. 2631; Gaz. vol. 178; p. 440.
Fire-escape. E. H. Haney. No. 1,027,724; May 28; Sp. p. 5750; Gaz. vol. 178; p. 1002.
Fire-escape. J. B. Glover. No. 1,028,453; June 4; Sp. p. 862; Gaz. vol. 179; p. 129.
Fire-escape. V. Denaro. No. 1,028,687; June 4; Sp. p. 1334; Gaz. vol. 179; p. 206.
Fire-escape. F. Schneider. No. 1,029,768; June 18; Sp. p. 3686; Gaz. vol. 179; p. 650.
Fire-escape. W. H. Smith. No. 1,029,769; June 18; Sp. p. 3687; Gaz. vol. 179; p. 650.
Fire-escape. W. R. Cain. No. 1,031,909; July 9; Gaz. vol. 180; p. 410.
Fire-escape. F. E. Glaze and S. A. Hackley. No. 1,031,922; July 9; Gaz. vol. 180; p. 415.
Fire-escape. W. Nothaft and G. R. Harrison. No. 1,032,294; July 9; Gaz. vol. 180; p. 540.
Fire-escape. M. Gilmore. No. 1,032,665; July 16; Gaz. vol. 180; p. 711.
Fire-escape. J. Bosnyakovits. No. 1,032,810; July 16; Gaz. vol. 180; p. 761.
Fire-escape. T. J. Gilloon and J. F. Huber. No. 1,033,311; July 23; Gaz. vol. 180; p. 969.
Fire-escape. S. Fine. No. 1,035,176; Aug. 13; Gaz. vol. 181; p. 290.
Fire-escape. M. B. Feinen. No. 1,036,987; Aug. 27; Gaz. vol. 181; p. 979.
Fire-escape. R. Lang and W. E. James. No. 1,037,026; Aug. 27; Gaz. vol. 181; p. 992.
Fire-escape. J. M. Klocko. No. 1,040,354; Oct. 8; Gaz. vol. 183; p. 259.
Fire-escape. N. Johnson. No. 1,041,090; Oct. 15; Gaz. vol. 183; p. 545.
Fire-escape. D. Müller. No. 1,043,959; Nov. 12; Gaz. vol. 184; p. 353.
Fire-escape. S. Stasel. No. 1,046,672; Dec. 10; Gaz. vol. 185; p. 344.
Fire-escape. J. J. Dawson. No. 1,047,618; Dec. 17; Gaz. vol. 185; p. 704.
Fire-escape. G. W. Anne, Sr. No. 1,049,033; Dec. 31; Gaz. vol. 185; p. 1256.

Alphabetical list of inventions—Continued.

Fire-escape. M. Fink. No. 1,049,219; Dec. 31; Gaz. vol. 185; p. 1317.
Fire-escape apparatus. J. R. Taft and C. F. Pember. No. 1,019,284; Mar. 5; Sp. p. 621; Gaz. vol. 176; p. 97.
Fire-escape apparatus. J. F. Scheuer. No. 1,037,333; Sept. 3; Gaz. vol. 182; p. 51.
Fire-escape ladder. J. M. Webster. No. 1,031,496; July 2; Gaz. vol. 180; p. 226.
Fire-escape, Portable. C. J. Geisel. No. 1,025,972; May 14; Sp. p. 1924; Gaz. vol. 178; p. 332.
Fire-extinguisher. J. Bijur and J. M. Joy. No. 1,015,987; Jan. 30; Sp. p. 6367; Gaz. vol. 174; p. 1108.
Fire-extinguisher. J. M. Miller. No. 1,018,514; Feb. 27; Sp. p. 5102; Gaz. vol. 175; p. 889.
Fire-extinguisher. J. B. Thomas. No. 1,019,859; Mar. 12; Sp. p. 1821; Gaz. vol. 176; p. 319.
Fire-extinguisher. J. B. Thomas. No. 1,022,211; Apr. 2; Sp. p. 972; Gaz. vol. 177; p. 156.
Fire-extinguisher. J. D. Farr. No. 1,026,856; May 21; Sp. p. 3883; Gaz. vol. 178; p. 670.
Fire-extinguisher. E. M. Lawrence. No. 1,027,133; May 21; Sp. p. 4562; Gaz. vol. 178; p. 766.
Fire-extinguisher. E. M. Bishop. No. 1,027,308; May 21; Sp. p. 4909; Gaz. vol. 178; p. 826.
Fire-extinguisher. J. B. Thomas. No. 1,038,026; Sept. 10; Gaz. vol. 182; p. 319.
Fire-extinguisher. A. A. and L. A. Charbonneau. No. 1,038,850; Sept. 17; Gaz. vol. 182; p. 636.
Fire-extinguisher. G. J. Hamberger. No. 1,039,933; Oct. 1; Gaz. vol. 183; p. 87.
Fire-extinguisher. S. Dorais. No. 1,042,536; Oct. 29; Gaz. vol. 183; p. 1097.
Fire-extinguisher. G. J. Finnegan. No. 1,042,541; Oct. 29; Gaz. vol. 183; p. 1099.
Fire-extinguisher. A. C. La May. No. 1,044,668; Nov. 19; Gaz. vol. 184; p. 627.
Fire-extinguisher. C. Snyder. No. 1,048,751; Dec. 31; Gaz. vol. 185; p. 1157.
Fire-extinguisher. C. H. Rebsch. No. 1,049,147; Dec. 31; Gaz. vol. 185; p. 1294.
Fire-extinguisher, Automatic. W. Esty. (Reissue.) No. 13,347; Jan. 2; Sp. p. 1693; Gaz. vol. 174; p. 268.
Fire-extinguisher, Automatic. F. J. Quick. No. 1,038,958; Sept. 17; Gaz. vol. 182; p. 673.
Fire-extinguisher, Chemical. C. E. Lombard. No. 1,043,120; Nov. 5; Gaz. vol. 184; p. 25.
Fire-extinguisher holder. W. J. A. Manning. No. 1,015,048; Jan. 16; Sp. p. 4367; Gaz. vol. 174; p. 733.
Fire-extinguisher holder. E. Schaefer. No. 1,038,000; Sept. 10; Gaz. vol. 182; p. 310.
Fire-extinguisher, Portable. A. A. and L. A. Charbonneau. No. 1,041,024; Oct. 15; Gaz. vol. 183; p. 522.
Fire-extinguisher, Portable. W. Patten. No. 1,047,693; Dec. 17; Gaz. vol. 185; p. 732.
Fire-extinguisher valve. J. T. Lally. No. 1,027,344; May 21; Sp. p. 4973; Gaz. vol. 178; p. 838.
Fire-extinguishers, Sprinkler-head for automatic. C. W. Kersteter. No. 1,044,459; Nov. 12; Gaz. vol. 184; p. 523.
Fire extinguishing and indicating apparatus, Combined. J. W. Lawhon. No. 1,027,260; May 21; Sp. p. 4803; Gaz. vol. 178; p. 810.
Fire-extinguishing apparatus. G. J. Coutu. No. 1,023,506; Apr. 16; Sp. p. 3728; Gaz. vol. 177; p. 659.
Fire-extinguishing apparatus. E. T. and E. W. Copeland. No. 1,029,277; June 11; Sp. p. 2613; Gaz. vol. 179; p. 443.
Fire-extinguishing apparatus. W. L. Deming. No. 1,038,859; Sept. 17; Gaz. vol. 182; p. 639.
Fire-extinguishing apparatus for ships. W. J. Paton. No. 1,034,291; July 30; Gaz. vol. 180; p. 1327.
Fire-extinguishing compound, Making a. E. M. Davidson. No. 1,036,461; Aug. 20; Gaz. vol. 181; p. 770.
Fire-extinguishing device for localizing coal-dust explosions. H. Kruskopf. No. 1,022,368; Apr. 2; Sp. p. 1281; Gaz. vol. 177; p. 206.
Fire-extinguishing nozzle. R. Pattin. No. 1,017,585; Feb. 13; Sp. p. 2961; Gaz. vol. 175; p. 500.
Fire-extinguishing sprinkler-nozzle. R. M. Hunter. No. 1,032,548; July 16; Gaz. vol. 180; p. 670.
Fire-extinguishing system, Automatic. S. Sparling. No. 1,014,185; Jan. 9; Sp. p. 2423; Gaz. vol. 174; p. 407.
Fire-extinguishing systems, Main valve for dry-pipe automatic. F. H. Rice. No. 1,026,882; May 21; Sp. p. 3950; Gaz. vol. 178; p. 680.
Fire-extinguishing systems, Main valve for dry-pipe automatic. C. W. Kersteter. No. 1,041,633; Oct. 15; Gaz. vol. 183; p. 724.
Fire-fighting apparatus. H. W. Eisenbise. No. 1,023,141; Apr. 16; Sp. p. 2998; Gaz. vol. 177; p. 539.
Fire-fighting elevator. E. H. Haney. No. 1,030,468; June 25; Sp. p. 5245; Gaz. vol. 179; p. 933.
Fire-helmet. G. Fabian. No. 1,041,610; Oct. 15; Gaz. vol. 183; p. 716.
Fire-hose, Apparatus for holding and directing the nozzles of. J. P. Howe, C. S. Demarest, and W. F. Healey. No. 1,043,107; Nov. 5; Gaz. vol. 184; p. 20.
Fire-hose cabinet. G. W. Noble. No. 1,049,136; Dec. 31; Gaz. vol. 185; p. 1290.
Fire-hose crossing for railways. T. D. Waller. No. 1,022,988; Apr. 9; Sp. p. 2634; Gaz. vol. 177; p. 449.
Fire-hose valve, Automatic. P. Mueller. No. 1,026,994; May 21; Sp. p. 4216; Gaz. vol. 178; p. 719.
Fire-hydrant catch-basin. M. Clarkson. No. 1,040,621; Oct. 8; Gaz. vol. 183; p. 353.
Fire-hydrant, Street. C. L. Howes. No. 1,037.914; Sept. 10; Gaz. vol. 182; p. 281.
Fire-hydrants and the like, Apparatus used in the construction of. M. Clarkson. No. 1,030,384; June 25; Sp. p. 5066; Gaz. vol. 179; p. 903.
Fire-kindler and alarm, Automatic. R. C. Dayton. No. 1,013.930; Jan. 9; Sp. p. 1886; Gaz. vol. 174; p. 321.
Fire-lighter, Automatic. G. W. Allen. No. 1,032,726; July 16; Gaz. vol. 180; p. 733.
Fire-lighter, Automatic. E. N. Swan and A. Beightol. No. 1,048,372; Dec. 24; Gaz. vol. 185; p. 988.
Fire-lighting apparatus. V. Neff. No. 1,014,665; Jan. 16; Sp. p. 3513; Gaz. vol. 174; p. 602.
Fire-lighting device. P. C. Truelsen and A. Simonsen. No. 1,022,053; Apr. 2; Sp. p. 642; Gaz. vol. 177; p. 102.
Fire-net. C. H. Dennis. No. 1,018,698; Feb. 27; Sp. p. 5485; Gaz. vol. 175; p. 951.
Fire-nozzle. T. D. Brath. No. 1,019,420; Mar. 5; Sp. p. 967; Gaz. vol. 176; p. 141.
Fire-plug. W. F. Benton. No. 1,038,523; Sept. 17; Gaz. vol. 182; p. 521.
Fire-protection signal system, Automatic. J. E. Shepherd. No. 1,018,451; Feb. 27; Sp. p. 4906; Gaz. vol. 175; p. 867.
Fire, range, and the like, Domestic. G. R. Hislop. No. 1,021,460; Mar. 26; Sp. p. 5231; Gaz. vol. 176; p. 946.
Fire-resisting curtain. E. H. McCloud. No. 1,014,315; Jan. 9; Sp. p. 2720; Gaz. vol. 174; p. 453.
Fire-resisting shutter. A. Rush. No. 1,014,611; Jan. 9; Sp. p. 3330; Gaz. vol. 174; p. 552.
Fire-resisting shutter. E. H. McCloud. (Reissue.) No. 13,405; Apr. 16; Sp. p. 4261; Gaz. vol. 177; p. 748.
Fire-resisting shutter and slat therefor, Flexible. E. H. McCloud. No. 1,015,332; Jan. 23; Sp. p. 4963; Gaz. vol. 174; p. 856.
Fire-resisting shutter, Flexible. E. H. McCloud. No. 1,013.945; Jan. 9; Sp. p. 1915; Gaz. vol. 174; p. 326.
Fire-resisting shutter, Flexible. A. Rush. No. 1,017,808; Feb. 20; Sp. p. 3488; Gaz. vol. 175; p. 613.
Fire-screen, Film. D. B. Kershaw. No. 1,022,320; Apr. 2; Sp. p. 1177; Gaz. vol. 177; p. 189.
Fire-shield. D. S. Watson. No. 1,032,717; July 16; Gaz. vol. 180; p. 730.
Fire-signal device. C. Raymond. No. 1,026,769; May 21; Sp. p. 3703; Gaz. vol. 178; p. 641.
Fire, smoke, steam, and air shaft. G. Matchell. No. 1,014,969; Jan. 16; Sp. p. 4199; Gaz. vol. 174; p. 707.
Fire-sprayer. J. J. Bellew. No. 1,031,104; July 2; Gaz. vol. 180; p. 91.
Fires, Extinguishing. M. Breslauer. No. 1,017,949; Feb. 20; Sp. p. 3820; Gaz. vol. 175; p. 663.
Fires in telephone installations, Extinguishing. C. Gautsch. No. 1,023,107; Apr. 9; Sp. p. 2879; Gaz. vol. 177; p. 490.
Firearm. L. Cudia. No. 1,015,226; Jan. 16; Sp. p. 4689; Gaz. vol. 174; p. 792.
Firearm. J. W. Harrington. No. 1,015,490; Jan. 23; Sp. p. 5309; Gaz. vol. 174; p. 910.
Firearm. A. J. Savage. No. 1,019,367; Mar. 5; Sp. p. 835; Gaz. vol. 176; p. 125.
Firearm. C. A. T. Sjögren. No. 1,021,381; Mar. 26; Sp. p. 5020; Gaz. vol. 176; p. 917.
Firearm. C. H. A. F. L. Ross. No. 1,021,706; Mar. 26; Sp. p. 5709; Gaz. vol. 176; p. 1026.
Firearm. G. S. Lewis. No. 1,021,988; Apr. 2; Sp. p. 509; Gaz. vol. 177; p. 81.
Firearm. J. D. Pedersen. No. 1,023,169; Apr. 16; Sp. p. 3069; Gaz. vol. 177; p. 549.
Firearm. J. W. Dowden. No. 1,024,190; Apr. 23; Sp. p. 5222; Gaz. vol. 177; p. 915.
Firearm. G. W. Gruver. No. 1,024,989; Apr. 30; Sp. p. 6979; Gaz. vol. 177; p. 1226.
Firearm. B. H. Savage. No. 1,027,773; May 28; Sp. p. 5847; Gaz. vol. 178; p. 1018.
Firearm. G. W. Peck, Jr., and W. M. Farrow, Sr. No. 1,027,893; May 28; Sp. p. 6186; Gaz. vol. 178; p. 1061.
Firearm. C. A. Young. No. 1,029,037; July 11; Sp. p. 2100; Gaz. vol. 179; p. 363.
Firearm. A. H. Worrest. No. 1,029,781; June 18; Sp. p. 3716; Gaz. vol. 179; p. 654.
Firearm. E. E. Redfield. No. 1,031,373; July 2; Gaz. vol. 180; p. 183.
Firearm. E. E. Redfield. No. 1,031,374; July 2; Gaz. vol. 180; p. 184.
Firearm. A. H. Bishop. No. 1,035,148; Aug. 13; Gaz. vol. 181; p. 278.
Firearm. B. F. Case. No. 1,040,881; Oct. 8; Gaz. vol. 183; p. 440.
Firearm. J. H. Wesson. No. 1,041,928; Oct. 22; Gaz. vol. 183; p. 865.
Firearm. J. D. Pedersen. No. 1,044,568; Nov. 19; Gaz. vol. 184; p. 590.
Firearm. L. H. Cobb. No. 1,046,268; Dec. 3; Gaz. vol. 185; p. 164.
Firearm and boxer, Combined. B. Kreith. No. 1,023,741; Apr. 16; Sp. p. 4171; Gaz. vol. 177; p. 732.

Firearm, Automatic. G. Toborg. No. 1,017,119; Feb. 13; Sp. p. 1983; Gaz. vol. 175; p. 341.
Firearm, Automatic. K. Krnka. No. 1,018,914; Feb. 27; Sp. p. 5945; Gaz. vol. 175; p. 1024.
Firearm, Automatic. H. G. Farquhar and A. H. Hill. No. 1,019,620; Mar. 5; Sp. p. 1359; Gaz. vol. 176; p. 207.
Firearm, Automatic. W. H. Whittier. No. 1,019,937; Mar. 12; Sp. p. 1996; Gaz. vol. 176; p. 345.
Firearm, Automatic. I. Johnson. No. 1,028,884; June 11; Sp. p. 1767; Gaz. vol. 179; p. 309.
Firearm, Automatic. N. C. Schellenger. No. 1,029,720; June 18; Sp. p. 3592; Gaz. vol. 179; p. 634.
Firearm, Automatic. W. H. Whittier. No. 1,034,750; Aug. 6; Gaz. vol. 181; p. 117.
Firearm, Automatic. R. Frommer. No. 1,038,555; Sept. 17; Gaz. vol. 182; p. 532.
Firearm, Automatic. R. H. Kjellman. No. 1,040,692; Oct. 8; Gaz. vol. 183; p. 381.
Firearm, Automatic. G. Toborg. No. 1,047,337; Dec. 17; Gaz. vol. 185; p. 608.
Firearm, Automatic-loading. H. Dorn. No. 1,041,046; Oct. 15; Gaz. vol. 183; p. 530.
Firearm, Automatic repeating. O. H. J. Krag. No. 1,028,032; May 28; Sp. p. 6445; Gaz. vol. 178; p. 1105.
Firearm, Breech-loading and discharge-actuated. S. N. McClean. No. 1,042,363; Oct. 22; Gaz. vol. 183; p. 1007.
Firearm-cooling device. A. Berthier. No. 1,017,373; Feb. 13; Sp. p. 2526; Gaz. vol. 175; p. 428.
Firearm front sight. W. L. Marble. No. 1,047,427; Dec. 17; Gaz. vol. 185; p. 636.
Firearm, Hand-. F. T. Russell. No. 1,029,229; June 11; Sp. p. 2509; Gaz. vol. 179; p. 427.
Firearm, Magazine-. T. C. Johnson. No. 1,033,408; July 23; Gaz. vol. 180; p. 1000.
Firearm, Magazine-. F. F. Knous. No. 1,034,122; July 30; Gaz. vol. 180; p. 1268.
Firearm, Magazine-. W. Bennett. No. 1,037,107; Aug. 27; Gaz. vol. 181; p. 1020.
Firearm, Magazine-. B. S. Parsons and W. A. Freeman. No. 1,039,182; Sept. 24; Gaz. vol. 182; p. 762.
Firearm-magazine. J. D. Pedersen. No. 1,043,354; Nov. 5; Gaz. vol. 184; p. 111.
Firearm-projectile. G. Tocik. No. 1,017,928; Feb. 20; Sp. p. 3779; Gaz. vol. 175; p. 656.
Firearm, Repeating. C. A. Young. No. 1,013,353; Jan. 2; Sp. p. 583; Gaz. vol. 174; p. 93.
Firearm, Repeating. G. S. Lewis. No. 1,021,987; Apr. 2; Sp. p. 504; Gaz. vol. 177; p. 80.
Firearm safety attachment. F. T. Russell. No. 1,037,544; Sept. 3; Gaz. vol. 182; p. 125.
Firearm safety mechanism. P. Mauser. No. 1,047,672; Dec. 17; Gaz. vol. 185; p. 724.
Firearm-sight. J. Windridge. No. 1,018,224; Feb. 20; Sp. p. 4418; Gaz. vol. 175; p. 759.
Firearm-sight. F. C. Chadwick. No. 1,018,876; Feb. 27; Sp. p. 5866; Gaz. vol. 175; p. 1012.
Firearm-sight. E. R. Tufts. No. 1,033,495; July 23; Gaz. vol. 180; p. 1028.
Firearm-silencer. C. H. Kenney. No. 1,017,003; Feb. 13; Sp. p. 1720; Gaz. vol. 175; p. 300.
Firearm-silencing device. H. P. Maxim. No. 1,018,720; Feb. 27; Sp. 5534; Gaz. vol. 175; p. 958.
Firearm-stock, Adjustable. O. E. Oliver. No. 1,047,690; Dec. 17; Gaz. vol. 185; p. 731.
Firearm with fixed barrel and breech-action, Automatic. K. A. Bräuning. No. 1,020,596; Mar. 19; Sp. p. 3381; Gaz. vol. 176; p. 600.
Firearm with fixed barrel and locked breech, Automatic. A. W. Schwarzlose. No. 1,026,609; May 14; Sp. p. 3319; Gaz. vol. 178; p. 548.
Firearms, Automatic cartridge-magazine for. E. Tatarek. No. 1,042,837; Oct. 29; Gaz, vol. 183; p. 1202.
Firearms, Box-magazine for. M. W. H. Brown. No. 1,044,983; Nov. 19; Gaz. vol. 184; p. 736.
Firearms, Breech mechanism of. E. Schneider. No. 1,016,179; Jan. 30; Sp. p. 6749; Gaz. vol. 174; p. 1173.
Firearms, Cushion butt-plate for. G. S. Long. No. 1,042,132; Oct. 22; Gaz. vol. 183; p. 932.
Firearms, Ejector device for automatic. P. Mauser. No. 1,035,210; Aug. 13; Gaz. vol. 181; p. 301.
Firearms, Light attachment for. C. A. Lewis. No. 1,045,800; Nov. 26; Gaz. vol. 184; p. 1050.
Firearms, Night-sight for. G. A. Seely. No. 1,029,951; June 18; Sp. p. 4110; Gaz. vol. 179; p. 713.
Firearms or guns, Breech-block mechanism for. A. D. Chronis. No. 1,043,670; Nov. 5; Gaz. vol. 184; p. 221.
Firearms, Rear sight for. F. F. Burton. No. 1,039,896; Oct. 1; Gaz. vol. 183; p. 76.
Firearms, Silencer for. R. A. Moore. No. 1,021,742; Mar. 26; Sp. p. 5784; Gaz. vol. 176; p. 1039.
Firearms, Wooden fore-arm for automatic. T. C. Johnson. No. 1,037,486; Sept. 3; Gaz. vol. 182; p. 106.
Fireless-cooker lining. W. D. Hodson. No. 1,032,673; July 16; Gaz. vol. 180; p. 715.
Fireplace. D. D. Nash. No. 1,018,677; Feb. 27; Sp. p. 5448; Gaz. vol. 175; p. 945.
Fireplace. W. W. Guy. No. 1,024,508; Apr. 30; Sp. p. 5931; Gaz. vol. 177; p. 1058.
Fireplace. J. C. Taylor. No. 1,044,708; Nov. 19; Gaz. vol. 184; p. 640.
Fireplace. G. L. Perrine. No. 1,049,262; Dec. 31; Gaz. vol. 185; p. 1333.
Fireplace and camp crane, Portable. F. W. Hibbs. No. 1,032,210; July 9; Gaz. vol. 180; p. 511.
Fireplace fender and screen. V. T. Yarborough. No. 1,044,330; Nov. 12; Gaz. vol. 184; p. 479.
Fireplace-heater. H. H. Brandes. No. 1,013,372; Jan. 2; Sp. p. 623; Gaz. vol. 174; p. 99.
Fireplace, Portable. C. L. Taylor. No. 1,029,151; June 11; Sp. p. 2349; Gaz. vol. 179; p. 400.
Fireplace screens, blowers, and window-sashes, Means for balancing frames for. L. F. Eisele. No. 1,016,876; Feb. 6; Sp. p. 1418; Gaz. vol. 175; p. 220.
Fireproof building construction. C. Collins. No. 1,027,641; May 28; Sp. p. 5577; Gaz. vol. 178; p. 975.
Fireproof building construction. H. L. Lewen. No. 1,035,206; Aug. 13; Gaz. vol. 181; p. 299.
Fireproof cabinet. W. S. Easton. No. 1,032,351; July 9; Gaz. vol. 180; p. 560.
Fireproof columns, Cap and base for. J. J. Tresidder. No. 1,019,561; Mar. 5; Sp. p. 1258; Gaz. vol. 176; p. 187.
Fireproof composition, Manufacturing. G. A. Cummings. No. 1,028,193; June 4; Sp. p. 306; Gaz. vol. 179; p. 40.
Fireproof-construction clip. J. F. Makowski. No. 1,027,425; May 28; Sp. p. 5160; Gaz. vol. 178; p. 904.
Fireproof door. J. A. Wheeler. No. 1,034,175; July 30; Gaz. vol. 180; p. 1286.
Fireproof door. J. A. Wheeler. No. 1,048,923; Dec. 31; Gaz. vol. 185; p. 1216.
Fireproof door and like structure. W. E. C. Liebert. No. 1,045,714; Nov. 26; Gaz. vol. 184; p. 1022.
Fireproof door or shutter. E. H. McCloud. No. 1,034,812; Aug. 6; Gaz. vol. 181; p. 139.
Fireproof floor and ceiling construction. J. G. Eifler. No. 1,013,537; Jan. 2; Sp. p. 979; Gaz. vol. 174; p. 157.
Fireproof floor construction for buildings. E. V. Johnson. No. 1,021,780; Apr. 2; Sp. p. 49; Gaz. vol. 177; p. 11.
Fireproof floor system. W. D. Forsyth. No. 1,038,551; Sept. 17; Gaz. vol. 182; p. 531.
Fireproof metal window. W. F. Aldrich and G. A. Wieland. No. 1,035,132; Aug. 13; Gaz. vol. 181; p. 273.
Fireproof slabs or boards, Forming. J. A. Wheeler. (Reissue.) No. 13,446; July 16; Gaz. vol. 180; p. 852.
Fireproof slabs or boards, Forming. J. A. Wheeler. No. 1,048,616; Dec. 31; Gaz. vol. 185; p. 1109.
Fireproof structure. W. C. Edwards, Jr. No. 1,041,048; Oct. 15; Gaz. vol. 183; p. 530.
Fireproof window. S. H. Pomeroy. No. 1,025,995; May 14; Sp. p. 1975; Gaz. vol. 178; p. 340.
Fireproof window construction. E. H. Lunken. No. 1,026,520; May 14; Sp. p. 3151; Gaz. vol. 178; p. 520.
Fireproof window with detachable munnion-bars. O. H. Iman. No. 1,017,760; Feb. 20; Sp. p. 3330; Gaz. vol. 175; p. 596.
Fireproofing and other purposes, Composition of matter for. G. A. Mesturino. No. 1,030,909; July 2; Gaz. vol. 180; p. 20.
Fish, Automatic mechanism for handling, cutting, and flaking. F. D. Cleveland. No. 1,036,568; Aug. 27; Gaz. vol. 181; p. 840.
Fish-bait, Artificial. A. J. Dremel. No. 1,017,088; Feb. 13; Sp. p. 1927; Gaz. vol. 175; p. 331.
Fish-can. C. E. Shafer. No. 1,023,531; Apr. 16; Sp. p. 3773; Gaz. vol. 177; p. 667.
Fish-dressing machine. E. A. Smith. No. 1,034,525; Aug. 6; Gaz. vol. 181; p. 42.
Fish-dressing machine. G. Pomeroy. No. 1,036,899; Aug. 27; Gaz. vol. 181; p. 948.
Fish-fork. E. Mixa. No. 1,027,269; May 21; Sp. p. 4825; Gaz. vol. 178; p. 813.
Fish handling and cutting machine. F. D. Cleveland. No. 1,030,646; June 25; Sp. p. 5826; Gaz. vol. 179; p. 998.
Fish handling and flaking machine. F. D. Cleveland. No. 1,036,567; Aug. 27; Gaz. vol. 181; p. 839.
Fish-handling mechanism. F. D. Cleveland. No. 1,049,208; Dec. 31; Gaz. vol. 185; p. 1313.
Fish-hook extractor. J. F. Risdon. No. 1,043,627; Nov. 5; Gaz. vol. 184; p. 206.
Fish-hook releaser. S. Wetmore. No. 1,042,630; Oct. 29; Gaz. vol. 183; p. 1130.
Fish-hooks, Machine for attaching gut to. W. Borchardt. No. 1,034,758; Aug. 6; Gaz. vol. 181; p. 120.
Fish-line drier. C. J. C. Brearey. No. 1,018,550; Feb. 27; Sp. p. 5196; Gaz. vol. 175; p. 903.
Fish-line holder. E. B. Schmucker. No. 1,016,783; Feb. 6; Sp. p. 1231; Gaz. vol. 175; p. 190.
Fish-line reel. J. A. Ricketts. No. 1,038,203; Sept. 10; Gaz. vol. 182; p. 375.
Fish-line releaser. H. Levy. No. 1,044,792; Nov. 19; Gaz. vol. 184; p. 671.
Fish-net reel. H. A. Monroe. No. 1,038,414; Sept. 10; Gaz. vol. 182; p. 449.
Fish-plate. J. G. Day. No. 1,033,677; July 23; Gaz. vol. 180; p. 1087.
Fish-plate bolt. L. E. Beaulieu. No. 1,023,985; Apr. 23; Sp. p. 4755; Gaz. vol. 177; p. 844.

Alphabetical list of inventions—Continued.

Fish, Propagation of. F. Parry. No. 1,023,590; Apr. 16; Sp. p. 3903; Gaz. vol. 177; p. 687.
Fish-rod holder. J. Towne. No. 1,025,657; May 7; Sp. p. 1231; Gaz. vol. 178; p. 190.
Fish-rod reel. J. A. Ricketts. No. 1,046,647; Dec. 10; Gaz. vol. 185; p. 335.
Fish-scaling device. O. Kell. No. 1,028,736; June 4; Sp. p. 1438; Gaz. vol. 179; p. 223.
Fish-screen. W. E. Clark and H. I. Stevenson. No. 1,038,087; Sept. 10; Gaz. vol. 182; p. 338.
Fish-trap. W. R. Calvert. No. 1,033,755; July 23; Gaz. vol. 180; p. 1112.
Fishing apparatus. G. Plüschke. No. 1,045,177; Nov. 26; Gaz. vol. 184; p. 831.
Fishing device. J. H. Fuller and A. Miller. No. 1,038,866; Sept. 17; Gaz. vol. 182; p. 641.
Fishing device, Mechanical. E. E. Owens. No. 1,022,377; Apr. 2; Sp. p. 1298; Gaz. vol. 177; p. 210.
Fishing-pole, Automatic. A. A. Green. No. 1,021,147; Mar. 26; Sp. p. 4537; Gaz. vol. 176; p. 836.
Fishing-pole holder, Adjustable. J. Raes. No. 1,035,739; Aug. 13; Gaz. vol. 181; p. 481.
Fishing-reel. W. Kramer. No. 1,013,942; Jan. 9; Sp. p. 1907; Gaz. vol. 174; p. 325.
Fishing-reel. P. Catucci. No. 1,016,913; Feb. 6; Sp. p. 1503; Gaz. vol. 175; p. 232.
Fishing-reel. S. Kadla. No. 1,023,853; Apr. 23; Sp. p. 4447; Gaz. vol. 177; p. 799.
Fishing-reel. P. Catucci. No. 1,027,179; May 21; Sp. p. 4646; Gaz. vol. 178; p. 780.
Fishing-reel. W. Schmid. No. 1,047,993; Dec. 24; Gaz. vol. 185; p. 861.
Fishing-rod. C. A. Tredwell. No. 1,013,333; Jan. 2; Sp. p. 542; Gaz. vol. 174; p. 86.
Fishing-rod. A. C. Matheson. No. 1,033,430; July 23; Gaz. vol. 180; p. 1007.
Fishing-rod attachment. J. Dineen. No. 1,015,009; Jan. 16; Sp. p. 4287; Gaz. vol. 174; p. 720.
Fishing-rod handle. H. C. Brunnett. No. 1,033,668; July 23; Gaz. vol. 180; p. 1085.
Fishing-rod support. J. W. Boyd. No. 1,013,734; Jan. 2; Sp. p. 1420; Gaz. vol. 174; p. 224.
Fishing-tackle. J. Nordlund. No. 1,023,028; Apr. 9; Sp. p. 2706; Gaz. vol. 177; p. 462.
Fishing-tackle. J. H. Zevely. No. 1,032,100; July 9; Gaz. vol. 180; p. 474.
Fishing-tackle. J. M. Skvor and J. G. Irving. No. 1,033,281; July 23; Gaz. vol. 180; p. 959.
Fishing-tackle. H. M. Tileston. No. 1,036,380; Aug. 20; Gaz. vol. 181; p. 743.
Fishing-tackle. C. Toepfer. No. 1,041,376; Oct. 15; Gaz. vol. 183; p. 642.
Fishing-tool. B. J. Long and J. I. Keith. No. 1,015,198; Jan. 16; Sp. p. 4644; Gaz. vol. 174; p. 784.
Fishing-tool. C. Daniel. No. 1,016,816; Feb. 6; Sp. p. 1297; Gaz. vol. 175; p. 199.
Fishing-tool. J. S. Brown. No. 1,033,531; July 23; Gaz. vol. 180; p. 1040.
Fishway. J. R. Burkholder. No. 1,046,964; Dec. 10; Gaz. vol. 185; p. 443.
Fishway. D. L. Abernathy. No. 1,047,604; Dec. 17; Gaz. vol. 185; p. 700.
Fixture-hanger. J. G. Knight. No. 1,025,068; Apr. 30; Sp. p. 7117; Gaz. vol. 177; p. 1251.
Fixture-plate. W. O. Fowler. No. 1,035,782; Aug. 13; Gaz. vol. 181; p. 496.
Flag holding and stretching device. G. W. Blank. No. 1,020,396; Mar. 19; Sp. p. 2938; Gaz. vol. 176; p. 534.
Flagpole attachment. B. L. Mink. No. 1,035,990; Aug. 20; Gaz. vol. 181; p. 604.
Flagstaff. E. S. Earhart. No. 1,025,904; May 7; Sp. p. 1783; Gaz. vol. 178; p. 274.
Flagstaff. A. B. Updike. No. 1,036,168; Aug. 20; Gaz. vol. 181; p. 668.
Flagstaff, C. L. Ryans No. 1,041,173; Oct. 15; Gaz. vol. 183; p. 573.
Flagstaff. J. J. Buckley. No. 1,048,291; Dec. 24; Gaz. vol. 185; p. 960.
Flame-extinguisher. D. Rondeau. No. 1,031,200; July 2; Gaz. vol. 180; p. 125.
Flame-extinguisher. O. Schmidt. No. 1,031,203; July 2; Gaz. vol. 180; p. 126.
Flame-gage. V. W. Thompson. No. 1,021,645; Mar. 26; Sp. p. 5601; Gaz. vol. 176; p. 1007.
Flame-proof switch. W. R. Youmans. No. 1,042,865; Oct. 29; Gaz. vol. 183; p. 1213.
Flame-spreader. J. H. Winde-Muller. No. 1,035,127; Aug. 6; Gaz. vol. 181; p. 241.
Flange-forming machine. L. W. Noyes. No. 1,040,391; Oct. 8; Gaz. vol. 183; p. 272.
Flange, Sectional. W. W. Smith. No. 1,035,254; Aug. 13; Gaz. vol. 181; p. 316.
Flange-tester. C. Browning, Jr. No. 1,037,857; Sept. 10; Gaz. vol. 182; p. 260.
Flanges on bodies of ductile metal, Forming integral. T. E. Murray. No. 1,036,509; Aug. 20; Gaz. vol. 181; p. 788.
Flanging-machine. H. McCabe. No. 1,030,416; June 25; Sp. p. 5133; Gaz. vol. 179; p. 915.
Flanging-machine. C. C. Davis. No. 1,040,160; Oct. 1; Gaz. vol. 183; p. 164.
Flash-light. L. K. Flanagan and C. A. Miller. No. 1,013,287; Jan. 2; Sp. p. 450; Gaz. vol. 174; p. 69.
Flash-light apparatus. I. G. McColl. No. 1,023,161; Apr. 16; Sp. p. 3044; Gaz. vol. 177; p. 546.
Flash-light apparatus. J. A. Smith. No. 1,026,329; May 14; Sp. p. 2739; Gaz. vol. 178; p. 457.
Flash-light apparatus. W. T. Barnum. No. 1,027,167; May 21; Sp. p. 4627; Gaz. vol. 178; p. 777.
Flash-light apparatus. E. P. Lehmann. No. 1,032,615; July 16; Gaz. vol. 180; p. 692.
Flash-light apparatus. C. A. Waldeck. No. 1,038,245; Sept. 10; Gaz. vol. 182; p. 391.
Flash-light apparatus. F. Klein. No. 1,047,243; Dec. 17; Gaz. vol. 185; p. 571.
Flash-light apparatus for cameras. A. E. Wallace. No. 1,042,856; Oct. 29; Gaz. vol. 183; p. 1209.
Flash-light apparatus, Portable. N. Dowling. No. 1,032,048; July 9; Gaz. vol. 180; p. 456.
Flash-light device. M. H. Kennedy. No. 1,013,399; Jan. 2; Sp. p. 684; Gaz. vol. 174; p. 108.
Flash-light, Electric. J. F. Wagner. No. 1,042,623; Oct. 29; Gaz. vol. 183; p. 1128.
Flash-light squib. N. Dowling. No. 1,043,811; Nov. 12; Gaz. vol. 184; p. 300.
Flashing-block. F. D. Renaud. No. 1,039,320; Sept. 24; Gaz. vol. 182; p. 812.
Flask: *See* Foundry-flask; Molder's flask; Snap-flask.
Flask-clamp. E. C. Covert. No. 1,027,695; May 28; Sp. p. 5701; Gaz. vol. 178; p. 993.
Flat-iron. J. Kriszt. No. 1,013,663; Jan. 2; Sp. p. 1264; Gaz. vol. 174; p. 199.
Flat-iron. F. Johnson. No. 1,017,099; Feb. 13; Sp. p. 1947; Gaz. vol. 175; p. 335.
Flat-iron, Automatic. H. P. Bell. No. 1,041,720; Oct. 22; Gaz. vol. 183; p. 790.
Flat-iron, Charcoal. J. Kriszt. No. 1,040,216; Oct. 1; Gaz. vol. 183; p. 183.
Flat-iron, Electric. A. S. Cubitt. No. 1,019,426; Mar. 5; Sp. p. 976; Gaz. vol. 176; p. 143.
Flat-iron, Electrically-heated. R. W. Baker. No. 1,039,882; Oct. 1; Gaz. vol. 183; p. 71.
Flat-iron, Self-heating. F. Maiworm and C. E. Mitchell. No. 1,023,947; Apr. 23; Sp. p. 4678; Gaz. vol. 177; p. 830.
Flat-iron stand. F. M. Vogel. No. 1,025,493; May 7; Sp. p. 869; Gaz. vol. 178; p. 135.
Flat-iron stand and polisher. G. G. Hunt. No. 1,029,446; June 11; Sp. p. 3003; Gaz. vol. 179; p. 502.
Flat-iron stand, waxing device, and cleaner, Combined. R. T. Blakeley. No. 1,020,390; Mar. 12; Sp. p. 2914; Gaz. vol. 176; p. 494.
Flat screen. S. M. Myrtin. No. 1,027,143; May 21; Sp. p. 4582; Gaz. vol. 178; p. 770.
Flavoring, Soup-. L. Graf. No. 1,032,201; July 9; Gaz. vol. 180; p. 508.
Flax and the like, Machine for working. S. Walker. No. 1,027,512; May 28; Sp. p. 5324; Gaz. vol. 178; p. 933.
Flax-felt machine. J. E. Lappen. No. 1,023,473; Apr. 16; Sp. p. 3660; Gaz. vol. 177; p. 649.
Flax-pulling machine. C. H. Vessot and A. G. Mather. No. 1,013,975; Jan. 9; Sp. p. 1982; Gaz. vol. 174; p. 336.
Flax-straw, Treatment of. H. P. Bassett. No. 1,046,538; Dec. 10; Gaz. vol. 185; p. 297.
Fleshing-machine, Belt-knife. F. J. Perkins. No. 1,047,981; Dec. 24; Gaz. vol. 185; p. 856.
Flexible coupling. W. J. Francke. No. 1,029,355; June 11; Sp. p. 2793; Gaz. vol. 179; p. 471.
Flexible coupling. S. W. Jameson. No. 1,038,757; Sept. 17; Gaz. vol. 182; p. 603.
Flexible joint. E. J. Corbett. No. 1,023,924; Apr. 23; Sp. p. 4625; Gaz. vol. 177; p. 823.
Flier. J. V. Woodworth. No. 1,047,601; Dec. 17; Gaz. vol. 185; p. 699.
Fliers, Making. C. T. Burlin. No. 1,042,645; Oct. 29; Gaz. vol. 183; p. 1135.
Flies from buildings and to prevent their reëntrance, Contrivance to provide for the free exit of. C. Tootell. No. 1,046,902; Dec. 10; Gaz. vol. 185; p. 423.
Flies to boxes, Machine for applying paper. A. L. Patterson. No. 1,032,237; July 9; Gaz. vol. 180; p. 521.
Fly and mosquito destroyer. J. T. Plumer. No. 1,036,331; Aug. 20; Gaz. vol. 181; p. 726.
Fly-board. J. M. Bense. No. 1,032,268; July 9; Gaz. vol. 180; p. 531.
Fly-catcher. E. Kunz and O. E. Hodge. No. 1,019,008; Feb. 27; Sp. p. 6166; Gaz. vol. 175; p. 1058.
Fly-catcher. H. Fingerhut. No. 1,029,001; June 11; Sp. p. 2035; Gaz. vol. 179; p. 350.
Fly-catcher. C. Thieme. No. 1,031,889; July 9; Gaz vol. 180; p. 404.
Fly-escape. G. W. Smith. No. 1,043,976; Nov. 12; Gaz. vol. 184; p. 359.
Fly-escape for screens. H. W. Welty. No. 1,029,330; June 11; Sp. p. 2738; Gaz. vol. 179; p. 463.
Fly-guard. J. J. Tully. No. 1,038,688; Sept. 17; Gaz. vol. 182; p. 579.
Fly-killer. C. W. Merrifield. No. 1,030,004; June 18; Sp. p. 4214; Gaz. vol. 179; p. 730.
Fly or insect trap. N. Göthberg. No. 1,043,419; Nov. 5; Gaz. vol. 184; p. 133.

Alphabetical list of inventions—Continued.

Fly-paper holder. H. C. Swenson. No. 1,015,520; Jan. 23; Sp. p. 5358; Gaz. vol. 174; p. 919.
Fly-poison cage. C. M. Klein. No. 1,026,681; May 21; Sp. p. 3501; Gaz. vol. 178; p. 611.
Fly-removing device. G. S. McNeil. No. 1,046,831; Dec. 10; Gaz. vol. 185; p. 399.
Fly, roach, and mouse trap, Combination. E. P. Dehler. No. 1,046,993; Dec. 10; Gaz. vol. 185; p. 452.
Fly-screen. A. Hager. No. 1,045,837; Dec. 3; Gaz. vol. 185; p. 14.
Fly-screen and shade, Adjustable. A. P. Smith. No. 1,042,491; Oct. 29; Gaz. vol. 183; p. 1081.
Fly-screen, Metal. W. W. Cole. No. 1,017,958; Feb. 20; Sp. p. 3842; Gaz. vol. 175; p. 666.
Fly-trap. D. H. Schmidt. No. 1,013,320; Jan. 2; Sp. p. 516; Gaz. vol. 174; p. 82.
Fly-trap. J. F. Serafinski. No. 1,015,643; Jan. 23; Sp. p. 5631; Gaz. vol. 174; p. 963.
Fly-trap. W. S. Wallace. No. 1,017,027; Feb. 13; Sp. p. 1766; Gaz. vol. 175; p. 308.
Fly-trap. D. D. Bolick. No. 1,017,644; Feb. 20; Sp. p. 3084; Gaz. vol. 175; p. 557.
Fly-trap. S. Simon. No. 1,018,213; Feb. 20; Sp. p. 4395; Gaz. vol. 175; p. 755.
Fly-trap. F. Karnes. No. 1,019,257; Mar. 5; Sp. p. 549; Gaz. vol. 176; p. 87.
Fly-trap. J. E. Jordan. No. 1,019,899; Mar. 12; Sp. p. 1915; Gaz. vol. 176; p. 333.
Fly-trap. H. Passig. No. 1,020,052; Mar. 12; Sp. p. 2223; Gaz. vol. 176; p. 383.
Fly-trap. J. W. Hildreth. No. 1,020,500; Mar. 19; Sp. p. 3161; Gaz. vol. 176; p. 568.
Fly-trap. J. V. Rigsby and W. H. Royal. No. 1,026,222; May 14; Sp. p. 2506; Gaz. vol. 178; p. 420.
Fly-trap. W. J. Hamilton. No. 1,027,602; May 28; Sp. p. 5507; Gaz. vol. 178; p. 963.
Fly-trap. S. Stick. No. 1,033,289; July 23; Gaz. vol 180; p. 961.
Fly-trap. E. L. Mathews. No. 1,039,984; Oct. 1; Gaz. vol. 183; p. 104.
Fly-trap. L. Emery. No. 1,040,295; Oct. 8; Gaz. vol. 183; p. 239.
Fly-trap. F. Batchelor. No. 1,042,310; Oct. 22; Gaz. vol. 183; p. 990.
Fly-trap. S. Krueger. No. 1,048,082; Dec. 24; Gaz. vol. 185; p. 891.
Fly-trap. M. F. Hunt. No. 1,048,971; Dec. 31; Gaz. vol. 185; p. 1233.
Fly-trap for window and door screens. C. A. Fulcher. No. 1,022,669; Apr. 9; Sp. p. 1939; Gaz. vol. 177; p. 338.
Fly-trapping device. G. Barr. No. 1,035,845; Aug. 20; Gaz. vol. 181; p. 556.
Fly-wheel. W. L. Clouse. No. 1,015,476; Jan. 23; Sp. p. 5282; Gaz. vol. 174; p. 904.
Fly-wheel and transmission-gearing, Combined. C. M. Leech. No. 1,039,968; Oct. 1; Gaz. vol. 183; p. 99.
Flying-machine. H. C. Gammeter. No. 1,013,152; Jan. 2; Sp. p. 122; Gaz. vol. 174; p. 22.
Flying-machine. W. H. Beery. No. 1,013,268; Jan. 2; Sp. p. 388; Gaz. vol. 174; p. 62.
Flying-machine. J. E. Gaston. No. 1,013,484; Jan. 2; Sp. p. 858; Gaz. vol. 174; p. 138.
Flying-machine. W. G. Hamilton. No. 1,013,840; Jan. 2; Sp. p. 1635; Gaz. vol. 174; p. 261.
Flying-machine. H. Ludtke. No. 1,014,239; Jan. 9; Sp. p. 2562; Gaz. vol. 174; p. 427.
Flying-machine. O. W. Boche. No. 1,014,802; Jan. 16; Sp. p. 3812; Gaz. vol. 174; p. 648.
Flying-machine. G. Seifert. No. 1,014,857; Jan. 16; Sp. p. 3952; Gaz. vol. 174; p. 668.
Flying-machine. L. Dobbertin. No. 1,015,150; Jan. 16; Sp. p. 4551; Gaz. vol. 174; p. 768.
Flying-machine. A. Valentine. No. 1,015,656; Jan. 23; Sp. p. 5660; Gaz. vol. 174; p. 967.
Flying-machine. R. G. V. Mytton. No. 1,017,989; Feb. 20; Sp. p. 3911; Gaz. vol. 175; p. 677.
Flying-machine. F. Michau. No. 1,018,205; Feb. 20; Sp. p. 4381; Gaz. vol. 175; p. 752.
Flying-machine. O. L. Dunton. No. 1,018,413; Feb. 27; Sp. p. 4833; Gaz. vol. 175; p. 856.
Flying-machine. J. A. Goodwin. No. 1,019,782; Mar. 12; Sp. p. 1676; Gaz. vol. 176; p. 292.
Flying-machine. V. Mullendore. No. 1,019,988; Mar. 12; Sp. p. 2095; Gaz. vol. 176; p. 361.
Flying-machine. E. Fuchs. No. 1,020,275; Mar. 12; Sp. p. 2700; Gaz. vol. 176; p. 457.
Flying-machine. R. B. Swank. No. 1,020,628; Mar. 19; Sp. p. 3452; Gaz. vol. 176; p. 610.
Flying-machine. C. A. Schoonmaker. No. 1,020,718; Mar. 19; Sp. p. 3651; Gaz. vol. 176; p. 642.
Flying-machine. G. W. Tate and C. W. Rice. No. 1,020,935; Mar. 19; Sp. p. 4088; Gaz. vol. 176; p. 714.
Flying-machine. M. H. Whalen. No. 1,021,496; Mar. 26; Sp. p. 5316; Gaz. vol. 176; p. 958.
Flying-machine. I. L. Martin. No. 1,021,877; Apr. 2; Sp. p. 273; Gaz. vol. 177; p. 44.
Flying-machine. A. A. Fokken. No. 1,021,925; Apr. 2; Sp. p. 359; Gaz. vol. 177; p. 60.
Flying-machine. R. L. Brough. No. 1,022,018; Apr. 2; Sp. p. 572; Gaz. vol. 177; p. 90.
Flying-machine. J. A. Warrick. No. 1,022,903; Apr. 9; Sp. p. 2457; Gaz. vol. 177; p. 418.
Flying-machine. J. Raclot and C. Enderlin. No. 1,023,096; Apr. 9; Sp. p. 2854; Gaz. vol. 177; p. 486.
Flying-machine. J. N. Williams. No. 1,023,233; Apr. 16; Sp. p. 3188; Gaz. vol. 177; p. 571.
Flying-machine. J. C. Doty. No. 1,023,927; Apr. 23; Sp. p. 4630; Gaz. vol. 177; p. 823.
Flying-machine. J. A. Jung. No. 1,023,937; Apr. 23; Sp. p. 4656; Gaz. vol. 177; p. 828.
Flying-machine. R. L. Matteson. No. 1,024,011; Apr. 23; Sp. p. 4797; Gaz. vol. 177; p. 852.
Flying-machine. A. Rogestvensky. No. 1,024,102; Apr. 23; Sp. p. 5007; Gaz. vol. 177; p. 884.
Flying-machine. A. H. Blount. No. 1,024,670; Apr. 30; Sp. p. 6320; Gaz. vol. 177; p. 1114.
Flying-machine. O. R. Cassell. No. 1,024,766; Apr. 30; Sp. p. 6522; Gaz. vol. 177; p. 1148.
Flying-machine. H. Jordan. No. 1,025,093; Apr. 30; Sp. p. 7191; Gaz. vol. 177; p. 1260.
Flying-machine. B. Reid. No. 1,025,482; May 7; Sp. p. 835; Gaz. vol. 178; p. 131.
Flying-machine. J. Walsh. No. 1,025,891; May 7; Sp. p. 1753; Gaz. vol. 178; p. 270.
Flying-machine. R. Salmen. No. 1,025,999; May 14; Sp. p. 1985; Gaz. vol. 178; p. 342.
Flying-machine. J. Kubish. No. 1,027,258; May 21; Sp. p. 4800; Gaz. vol. 178; p. 808.
Flying-machine. D. V. Cole. No. 1,027,322; May 21; Sp. p. 4938; Gaz. vol. 178; p. 830.
Flying-machine. M. M. Benster. No. 1,027,372; May 21; Sp. p. 5036; Gaz. vol. 178; p. 848.
Flying-machine. L. A. Leech. No. 1,028,120; June 4; Sp. p. 53; Gaz. vol. 179; p. 12.
Flying-machine. W. J. Purvis and C. A. Wilson. No. 1,028,781; June 4; Sp. p. 1533; Gaz. vol. 179; p. 239.
Flying-machine. V. E. D'Urso. No. 1,028,865; June 11; Sp. p. 1719; Gaz. vol. 179; p. 301.
Flying-machine. M. L. Shackleford. No. 1,028,971; June 11; Sp. p. 1957; Gaz. vol. 179; p. 338.
Flying-machine. J. W. Wilson. No. 1,028,981; June 11; Sp. p. 1984; Gaz. vol. 179; p. 342.
Flying-machine. S. Borman. No. 1,030,803; June 25; Sp. p. 6240; Gaz. vol. 179; p. 1054.
Flying-machine. P. Giordano. No. 1,030,994; July 2; Gaz. vol. 180; p. 51.
Flying-machine. H. Miller. No. 1,031,569; July 2; Gaz. vol. 180; p. 250.
Flying-machine. A. I. Crenshaw. No. 1,031,840; July 9; Gaz. vol. 180; p. 387.
Flying-machine. L. S. Cunningham. No. 1,032,744; July 16; Gaz. vol. 180; p. 739.
Flying-machine. J. Casap. No. 1,032,812; July 16; Gaz. vol. 180; p. 762.
Flying-machine. G. E. Thompson. No. 1,032,868; July 16; Gaz. vol. 180; p. 780.
Flying-machine. L. Troxler. No. 1,032,967; July 16; Gaz. vol. 180; p. 811.
Flying-machine. J. Wulff. No. 1,032,976; July 16; Gaz. vol. 180; p. 815.
Flying-machine. P. A. Nilson. No. 1,033,452; July 23; Gaz. vol. 180; p. 1014.
Flying-machine. G. T. Peay, Jr. No. 1,033,460; July 23; Gaz. vol. 180; p. 1017.
Flying-machine. J. W. Wilson. No. 1,033,646; July 23; Gaz. vol. 180; p. 1078.
Flying-machine. T. F. Pearson. No. 1,033,827; July 30; Gaz. vol. 180; p. 1164.
Flying-machine. I. H. Storey. No. 1,034,042; July 30; Gaz. vol. 180; p. 1241.
Flying-machine. J. J. V. Kaulynskas. No. 1,034,120; July 30; Gaz. vol. 180; p. 1267.
Flying-machine. O. W. Johnson. No. 1,034,245; July 30; Gaz. vol. 180; p. 1312.
Flying-machine. T. A. Dring. No. 1,034,429; Aug. 6; Gaz. vol. 181; p. 11.
Flying-machine. T. A. Dring. No. 1,034,430; Aug. 6; Gaz. vol. 181; p. 11.
Flying-machine. J. Brown. No. 1,034,578; Aug. 6; Gaz. vol. 181; p. 59.
Flying-machine. R. L. Bernard. No. 1,034,958; Aug. 6; Gaz. vol. 181; p. 187.
Flying-machine. F. W. Stodder. No. 1,035,396; Aug. 13; Gaz. vol. 181; p. 368.
Flying-machine. C. A. Hamilton. No. 1,035,583; Aug. 13; Gaz. vol. 181; p. 430.
Flying-machine. T. W. Carey, Jr. No. 1,035,687; Aug. 13; Gaz. vol. 181; p. 465.
Flying-machine. W. B. Clements. No. 1,035,858; Aug. 20; Gaz. vol. 181; p. 560.
Flying-machine. J. A. Blondin. No. 1,036,178; Aug. 20; Gaz. vol. 181; p. 672.
Flying-machine. C. V. Johnson. No. 1,036,249; Aug. 20; Gaz. vol. 181; p. 697.
Flying-machine. J. Maljkovich. No. 1,036,287; Aug. 20; Gaz. vol. 181; p. 710.
Flying-machine. D. Segal. No. 1,036,732; Aug. 27; Gaz. vol. 181; p. 893.

Alphabetical list of inventions—Continued.

Flying-machine. J. Raclot and C. Enderlin. No. 1,037,050; Aug. 27; Gaz. vol. 181; p. 1000.
Flying-machine. F. L. Schaufler. No. 1,037,800; Sept. 3; Gaz. vol. 182; p. 208.
Flying-machine. T. A. Tanner. No. 1,037,804; Sept. 3; Gaz. vol. 182; p. 209.
Flying-machine. S. H. Benoist. No. 1,038,073; Sept. 10; Gaz. vol. 182; p. 334.
Flying-machine. J. E. Marshall. No. 1,038,168; Sept. 10; Gaz. vol. 182; p. 365.
Flying-machine. G. O'Bryan. No. 1,038,633; Sept. 17; Gaz. vol. 182; p. 560.
Flying-machine. C. T. Rogers. No. 1,038,964; Sept. 17; Gaz. vol. 182; p. 674.
Flying-machine. R. H. Froelich. No. 1,039,115; Sept. 24; Gaz. vol. 182; p. 739.
Flying-machine. T. N. Smith. No. 1,039,457; Sept. 24; Gaz. vol. 182; p. 860.
Flying-machine. A. C. Harry. No. 1,039,530; Sept. 24; Gaz. vol. 182; p. 886.
Flying-machine. F. D. Willis. No. 1,039,625; Sept. 24; Gaz. vol. 182; p. 919.
Flying-machine. H. Hardgrave. No. 1,039,679; Sept. 24; Gaz. vol. 182; p. 938.
Flying-machine. V. Wojciechowski. No. 1,040,600; Oct. 8; Gaz. vol. 183; p. 346.
Flying-machine. D. Hacker. No. 1,041,781; Oct. 22; Gaz. vol. 183; p. 813.
Flying-machine. W. S. Romme. No. 1,041,876; Oct. 22; Gaz. vol. 183; p. 847.
Flying-machine. P. Behrens. No. 1,042,311; Oct. 22; Gaz. vol. 183; p. 990.
Flying-machine. W. E. Pearson. No. 1,042,594; Oct. 29; Gaz. vol. 183; p. 1118.
Flying-machine. E. F. von Dreden and H. R. Hofmann. No. 1,043,079; Nov. 5; Gaz. vol. 184; p. 10.
Flying-machine. F. L. Smith. No. 1,043,636; Nov. 5; Gaz. vol. 184; p. 210.
Flying-machine. E. C. and A. B. Chase. No. 1,043,668; Nov. 5; Gaz. vol. 184; p. 221.
Flying-machine. E. B. Harris and A. Zamrsky. No. 1,044,382; Nov. 12; Gaz. vol. 184; p. 497.
Flying-machine. G. Silvestri. No. 1,044,600; Nov. 19; Gaz. vol. 184; p. 604.
Flying-machine. G. M. Robinson and J. O. Parker. No. 1,044,691; Nov 19; Gaz. vol. 184; p. 635.
Flying-machine. E. H. Kelsey. No. 1,045,152; Nov. 26; Gaz. vol. 184; p. 823.
Flying-machine. M. Newgold. No. 1,045,167; Nov. 26; Gaz. vol. 184; p. 827.
Flying-machine. S. V. James. No. 1,045,708; Nov. 26; Gaz. vol. 184; p. 1020.
Flying-machine. W. Phillips. No. 1,046,219; Dec. 3; Gaz. vol 185; p. 145.
Flying-machine. O. Trossin. No. 1,046,682; Dec. 10; Gaz. vol. 185; p. 347.
Flying-machine. B. B. Stubblefield. No. 1,046,895; Dec. 10; Gaz. vol. 185; p. 421.
Flying-machine. G. F. Eklund. No. 1,047,010; Dec. 10; Gaz. vol. 185; p. 457.
Flying-machine. W. G. Madison. No. 1,047,098; Dec. 10; Gaz. vol. 185; p. 487.
Flying-machine. A. G. Watkins. No. 1,047,865; Dec. 17; Gaz. vol. 185; p. 791.
Flying-machine. H. Van Wie. No. 1,048,239; Dec. 24; Gaz. vol. 185; p. 942.
Flying-machine. C. Babb. No. 1,048,272; Dec. 24; Gaz. vol. 185; p. 953.
Flying-machine. S. O'Neill. No. 1,048,338; Dec. 24; Gaz. vol. 185; p. 976.
Flying-machine. B. Quezada. No. 1,048,429; Dec. 24; Gaz. vol. 185; p. 1006.
Flying-machine. G. Sturgess. No. 1,049,280; Dec. 31; Gaz. vol. 185; p. 1338.
Flying-machine. E. Pollak. No. 1,049,315; Dec. 31; Gaz. vol. 185; p. 1351.
Flying-machine-actuating apparatus. L. Brianne. No. 1,039,889; Oct. 1; Gaz. vol. 183; p. 73.
Flying-machine attachment. C. M. Gould. No. 1,045,696; Nov. 26; Gaz. vol. 184; p. 1015.
Flying-machine automatic steering device. R. M. Thompson. No. 1,026,415; May 14; Sp. p. 2932; Gaz. vol. 178; p. 485.
Flying-machine, Heavier-than-air. A. B. Springstead. No. 1,037,353; Sept. 3; Gaz. vol. 182; p. 58.
Flying-machine-launching device. W. A. Bond. No. 1,033,148; July 23; Gaz. vol. 180; p. 912.
Flying-machine-launching means. G. H. Curtiss. No. 1,027,242; May 21; Sp. p. 4776; Gaz. vol. 178; p. 804.
Flying-machine, Multiplex-power. C. V. Johnson. No. 1,034,242; July 30; Gaz. vol. 180; p. 1310.
Flying-machine or aeroplane. J. Jirasek. No. 1,045,850; Dec. 3; Gaz. vol. 185; p. 19.
Flying-machine or airship. D. P. McLaughlin. No. 1,048,990; Dec. 31; Gaz. vol. 185; p. 1240.
Flying-machine propeller. W. H. Lawrence. No. 1,015,197; Jan. 16; Sp. p. 4642; Gaz. vol. 174; p. 783.
Flying-machine, Safety. M. Chase. No. 1,020,945; Mar. 19; Sp. p. 4112; Gaz. vol. 176; p. 718.
Flying-machine safety appliance. C. A. Barber. No. 1,019,014; Mar. 5; Sp. p. 5; Gaz. vol. 176; p. 3.
Flying-machine safety appliance. L. W. Stolp. No. 1,029,475; June 11; Sp. p. 3057; Gaz. vol. 179; p. 512.
Flying-machine safety device. C. H. Burford. No. 1,024,676; Apr. 30; Sp. p. 6333; Gaz. vol. 177; p. 1116.
Flying-machine safety device. J. G. Quigg. No. 1,038,196; Sept. 10; Gaz. vol. 182; p. 373.
Flying-machine stabilizer. E. H. Andrea. No. 1,040,843; Oct. 8; Gaz. vol. 183; p. 428.
Flying-machine-stabilizing device. W. Düchting. No. 1,028,336; June 4; Sp. p. 588; Gaz. vol. 179; p. 88.
Flying-machine stabilizing lifting-plane. A. F. Dierdorff. No. 1,026,079; May 14; Sp. p. 2196; Gaz. vol. 178; p. 370.
Flying-machine-starting device. K. Völler. No. 1,024,429; Apr. 23; Sp. p. 5708; Gaz. vol. 177; p. 994.
Flying-machine-testing apparatus. F. Brackett. No. 1,032,651; July 16; Gaz. vol. 180; p. 706.
Flying-machine wing. A. S. Outcalt. No. 1,013,560; Jan. 2; Sp. p. 1021; Gaz. vol. 174; p. 164.
Flying-machine wing. G. Korf. No. 1,031,452; July 2; Gaz. vol. 180; p. 210.
Flying-machines, Automatic balancing mechanism for. L. Lukács. No. 1,022,793; Apr. 9; Sp. p. 2230; Gaz. vol. 177; p. 382.
Flying-machines, Automatic stabilizer for. M. Raabe. No. 1,028,782; June 4; Sp. p. 1536; Gaz. vol. 179; p. 239.
Flying or traveling ring. M. B. Reach. No. 1,013,686; Jan. 2; Sp. p. 1337; Gaz. vol. 174; p. 207.
Flying shears, Automatic. J. Simpson. No. 1,037,675; Sept. 3; Gaz. vol. 182; p. 168.
Flying-tent. E. Gerber. No. 1,039,117; Sept. 24; Gaz. vol. 182; p. 740.
Float. A. W. Ayling and P. F. Reichert. (Reissue.) No. 13,389; Mar. 26; Sp. p. 5821; Gaz. vol. 176; p. 1043.
Float. G. B. Crist. No. 1,026,203; May 14; Sp. p. 2461; Gaz. vol. 178; p. 412.
Float. F., F. H., and W. A. Engelhard. No. 1,046,162; Dec. 3; Gaz. vol. 185; p. 125.
Float, Ball-. L. A. Cornelius. No. 1,036,572; Aug. 27; Gaz. vol. 181; p. 841.
Float, Ball-. N. Moritzky. No. 1,049,131; Dec. 31; Gaz. vol. 185; p. 1289.
Float-feed, Adjustable. M. C. Bright. No. 1,019,943; Mar. 12; Sp. p. 2007; Gaz. vol. 176; p. 347.
Float for bathers. W. C. Knoph. No. 1,026,519; May 14; Sp. p. 3150; Gaz. vol. 178; p. 520.
Floats and sinkers, Line-connecting device for. J. W. Colley and E. G. Walter. No. 1,019,950; Mar. 12; Sp. p. 2020; Gaz. vol. 176; p. 349.
Floating bodies against adhering of mussels, Protecting. E. Liebreich. No. 1,043,051; Oct. 29; Gaz. vol. 183; p. 1276.
Flood-gate. H. D. Merrill. No. 1,013,608; Jan. 2; Sp. p. 1113; Gaz. vol. 174; p. 179.
Flood-gate. G. S. Gardner. No. 1,028,566; June 4; Sp. p. 1092; Gaz. vol. 179; p. 166.
Flood-gate. A. W. Brown. No. 1,033,530; July 23; Gaz. vol. 180; p. 1040.
Flood-gate. H. Keck and O. Edwards. No. 1,034,248; July 30; Gaz. vol. 180; p. 1313.
Flood-gate, Automatic. W. S. Edge. No. 1,039,072; Sept. 17; Gaz. vol. 182; p. 706.
Flood-gates, Detachable panel structure for. E. S. Sheppard. No. 1,045,447; Nov. 26; Gaz. vol. 184; p. 926.
Floor. W. H. Philpot and R. Vertiska. No. 1,018,987; Feb. 27; Sp. p. 6117; Gaz. vol. 175; p. 1051.
Floor and ceiling construction. H. L. Lewen. No. 1,014,157; Jan. 9; Sp. p. 2370; Gaz. vol. 174; p. 396.
Floor and ceiling construction. C. Travalled. No. 1,046,903; Dec. 10; Gaz. vol. 185; p. 423.
Floor and ceiling plate. F. N. and A. R. Wells. No. 1,042,629; Oct. 29; Gaz. vol. 183; p. 1130.
Floor-box. J. Fountain, Jr., and B. Jones, Jr. No. 1,023,246; Apr. 16; Sp. p. 3215; Gaz. vol. 177; p. 575.
Floor check and hinge, Combined. H. G. Voight. No. 1,040,965; Oct. 8; Gaz. vol. 183; p. 468.
Floor connection. H. W. Thorndike. No. 1,039,846; Oct. 1; Gaz. vol. 183; p. 60.
Floor construction. J. Kahn. No. 1,033,413; July 23; Gaz. vol. 180; p. 1002.
Floor construction for buildings. F. B. Gilbreth. No. 1,047,930; Dec. 24; Gaz. vol. 185; p. 841.
Floor-covering, Wooden. G. Fulton. No. 1,028,703; June 4; Sp. p. 1356; Gaz. vol. 179; p. 212.
Floor-dressing tool. W. A. Scott. No. 1,016,446; Feb. 6; Sp. p. 480; Gaz. vol. 175; p. 73.
Floor finishing and surfacing machine. G. S. Reynolds. No. 1,022,505; Apr. 9; Sp. p. 1583; Gaz. vol. 177; p. 283.
Floor-jack. W. H. Chamberlain and F. A. Hadley. No. 1,013,927; Jan. 9; Sp. p. 1879; Gaz. vol. 174; p. 320.
Floor-mat. O. Winter. No. 1,034,667; Aug. 6; Gaz. vol. 181; p. 88.
Floor-oiler. L. G. Schaeneman. No. 1,021,708; Mar. 26; Sp. p. 5713; Gaz. vol 176; p. 1027.
Floor-opening closure. R. J. Kittredge. No. 1,021,535; Mar. 26; Sp. p. 5396; Gaz. vol. 176; p. 971.

Alphabetical list of inventions—Continued.

Floor or like structure. F. Schär. No. 1,017,175; Feb. 13; Sp. p. 2105; Gaz. vol. 175; p. 361.
Floor-polisher or the like. G. H. Bourne. No. 1,045,368; Nov. 26; Gaz. vol. 184; p. 898.
Floor, Portable sectional. C. and J. H. Tramill. No. 1,045,219; Nov. 26; Gaz. vol. 184; p. 846.
Floor-scraper. F. J. Vondracek. No. 1,016,720; Feb. 6; Sp. p. 1099; Gaz. vol. 175; p. 169.
Floor-scraper. F. J. Vondracek. No. 1,027,676; May 28; Sp. p. 5662; Gaz. vol. 178; p. 986.
Floor-scraper. E. W. Anderson. No. 1,032,355; July 9; Gaz. vol. 180; p. 561.
Floor-scraper. J. Wetsue. No. 1,038,807; Sept. 17; Gaz. vol. 182; p. 621.
Floor-scraping machine. C. T. Woodruff. No. 1,021,497; Mar. 26; Sp. p. 5318; Gaz vol. 176; p. 958.
Floor scrubbing and polishing apparatus. F. A. McKay. No. 1,021,695; Mar. 26; Sp. p. 5682; Gaz. vol. 176; p. 1023.
Floor-set, nail-set, and nail-shield, Combined. W. T. Wellman. No. 1,016,383; Feb. 6; Sp. p. 322; Gaz. vol. 175; p. 51.
Floor structure. M. F. McCarthy. No. 1,047,966; Dec. 24; Gaz. vol. 185; p. 852.
Floor-surfacing machine. H. W. Cheney. No. 1,013,534; Jan. 2; Sp. p. 970; Gaz. vol. 174; p. 156.
Floor-surfacing machine. E. E. Hughes. No. 1,023,251; Apr. 16; Sp. p. 3224; Gaz. vol. 177; p. 577.
Floor-surfacing machine. J. Herr. No. 1,030,255; June 18; Sp. p. 4745; Gaz. vol. 179; p. 817.
Floor-surfacing machine. J. H. Prugh. No. 1,032,023; July 9; Gaz. vol. 180; p. 448.
Floor-surfacing machine, Wood-. A. I. Maltby and E. S. Doolittle. No. 1,039,983; Oct. 1; Gaz. vol. 183; p. 104.
Floor-sweep. H. L. Day. No. 1,029,532; June 11; Sp. p. 3162; Gaz. vol. 179; p. 531.
Floor-tread. F. Erlach. No. 1,029,675; June 18; Sp. p. 3484; Gaz. vol. 179; p. 617.
Floors, Adjustable support for false work for. P. Toelps. No. 1,031,209; July 2; Gaz. vol. 180; p. 128.
Floors, siding, scaffolds, &c., Tool for removing. H. C. Hunt. No. 1,030,660; June 25; Sp. p. 5866; Gaz. vol. 179; p. 1003.
Floors, walls, &c., Manufacturing jointless facings of. L. Pink. No. 1,019,083; Mar. 5; Sp. p. 163; Gaz. vol. 176; p. 27.
Flooring-strip, Removable. W. S. Mitchell. No. 1,029,940; June 18; Sp. p. 4091; Gaz. vol. 179; p. 710.
Floral-decoration holder, Adjustable. D. A. Lytle. No. 1,024,215; Apr. 23; Sp. p. 5273; Gaz. vol. 177; p. 924.
Flotilla joining and steering mechanism. W. P. Stevens. No. 1,038,676; Sept. 17; Gaz. vol. 182; p. 574.
Flour and meal making apparatus. A. R. Tattersall. No. 1,037,805; Sept. 3; Gaz. vol. 182; p. 209.
Flour-bolter. R. A. Reynolds. No. 1,022,381; Apr. 2; Sp. p. 1305; Gaz. vol. 177; p. 211.
Flour bolter or dresser. E. W. Mihok. No. 1,016,705; Feb. 6; Sp. p. 1070; Gaz. vol. 175; p. 164.
Flour, Chain converter of. R. Briffaux, E. Brisson-Dauthel, and A. Gillot. No. 1,043,754; Nov. 5; Gaz. vol. 184; p. 249.
Flour, semolina, &c., Apparatus for the treatment of. F. H. Loring. No. 1,032,223; July 9; Gaz. vol. 180; p. 515.
Flour, semolina, &c., Treatment of. F. H. Loring. No. 1,032,224; July 9; Gaz. vol. 180; p. 516.
Flow-indicator. J. F. Vaughan. No. 1,038,803; Sept. 17; Gaz. vol. 182; p. 619.
Flow-motor. O. C. Moore. No. 1,042,366; Oct. 22; Gaz. vol. 183; p. 1008.
Flow through a passage, Means for regulating rate of. C. Lightfoot. No. 1,023,209; Apr. 16; Sp. p. 3147; Gaz. vol. 177; p. 563.
Flow through conduits or mains, Means for controlling. F. L. Cross. No. 1,021,762; Apr. 2; Sp. p. 14; Gaz. vol. 177; p. 5.
Flower-holder. J. W. Golden. No. 1,016,822; Feb. 6; Sp. p. 1309; Gaz. vol. 175; p. 201.
Flower-holder. M. Bugla. No. 1,032,184; July 9; Gaz. vol. 180; p. 502.
Flower-holder, Illuminated. L. W. Young. No. 1,043,557; Nov. 5; Gaz. vol. 184; p. 184.
Flower-pot. N. Felty. No. 1,035,561; Aug. 13; Gaz. vol 181; p. 424.
Flower-pot stand. N. Miles. No. 1,043,622; Nov. 5; Gaz. vol. 184; p. 205.
Flower-rack. H. C. Wilmot. No. 1,028,169; June 4; Sp. p. 257; Gaz. vol. 179; p. 31.
Flower-stem protector, Waterproof. E. Schloss. No. 1,044,260; Nov. 12; Gaz. vol. 184; p. 455.
Flower-stemming device. L. E. Tygert. No. 1,026,969; May 21; Sp. p. 4168; Gaz. vol. 178; p. 711.
Flue attachment. G. H. Rupp. No. 1,014,097; Jan. 9; Sp. p. 2250; Gaz. vol. 174; p. 376.
Flue base, Smoke-. W. A. Deck. No. 1,036,465; Aug. 20; Gaz. vol. 181; p. 771.
Flue-cleaner. A. A. Hull. No. 1,018,826; Feb. 27; Sp. p. 5772; Gaz. vol. 175; p. 997.
Flue-cleaner. H C. McKeel and J. Griffin. No. 1,026,525; May 14; Sp. p. 3158; Gaz. vol. 178; p. 521.
Flue-dust and the article of manufacture produced thereby, Briqueting. R. Hubner. No. 1,038,370; Sept. 10; Gaz. vol. 182; p. 433.
Flue-dust, Briqueting. G. L. Collard. No. 1,047,174; Dec. 17; Gaz. vol. 185; p. 545.
Flue-dust, Treatment of. J. I. Souther. No. 1,041,363; Oct. 15; Gaz. vol. 183; p. 638.
Flue-expander. J. B. and A. Lillibridge. No. 1,015,447; Jan. 23; Sp. p. 5206; Gaz. vol. 174; p. 895.
Flue-expander. J. F. Meeker. No. 1,024,802; Apr. 30; Sp. p. 6603; Gaz. vol. 177; p. 1161.
Flue-expander. J. T. McGrath. No. 1,037,789; Sept. 3; Gaz. vol. 182; p. 204.
Flue-expander. F. Clark. No. 1,047,498; Dec. 17; Gaz. vol. 185; p. 662.
Flue-expander. J. B. Anderson. No. 1,048,472; Dec. 24; Gaz. vol. 185; p. 1022.
Flue-expander. G. R. Rich. No. 1,048,584; Dec. 31; Gaz. vol. 185; p. 1098.
Flue or draft motor. J. Messina. No. 1,013,798; Jan. 2; Sp. p. 1548; Gaz. vol. 174; p. 246.
Flue-protecting plug. T. C. Ford. No. 1,031,992; July 9; Gaz. vol. 180; p. 438.
Flue-removing tool. N. S. Peterson and A. W. Mohrman. No. 1,047,832; Dec. 17; Gaz. vol. 185; p. 779.
Flue-scraper. E. Köpke. No. 1,035,363; Aug. 13; Gaz. vol. 181; p. 357.
Flue turning and beading tool. J. F. Gero. No. 1,016,559; Feb. 6; Sp. p. 767; Gaz. vol. 175; p. 113.
Flue-working tool. V. Moore. No. 1,026,993; May 21; Sp. p. 4214; Gaz. vol. 178; p. 719.
Fluid-applying device. L. Lavigne. No. 1,048,418; Dec. 24; Gaz. vol. 185; p. 1002.
Fluid-circulating indicator. G. Koehler, Jr. No. 1,038,155; Sept. 10; Gaz. vol. 182; p. 361.
Fluid-compressor. H. D. Hildebrand. No. 1,027,841; May 28; Sp. p. 6007; Gaz. vol. 178; p. 1042.
Fluid compressor, Centrifugal elastic-. K. Alquist. No. 1,023,408; Apr. 16; Sp. p. 3538; Gaz. vol. 177; p. 630.
Fluid compressor, Elastic-. M. Leblanc. No. 1,035,364; Aug. 13; Gaz. vol. 181; p. 357.
Fluid-compressor, Hydraulic. A. F. Hawkins. No. 1,027,386; May 21; Sp. p. 5072; Gaz. vol. 178; p. 853.
Fluid-compressor unloader. W. Prellwitz. No. 1,019,359; Mar. 5; Sp. p. 810; Gaz. vol. 176; p. 122.
Fluid-compressor unloader, Compound-. W. Prellwitz. No. 1,019,360; Mar. 5; Sp. p. 816; Gaz. vol. 176; p. 122.
Fluid-compressors, Unloader for. W. Prellwitz. No. 1,027,757; May 28; Sp. p. 5811; Gaz. vol. 178; p. 1013.
Fluid-compressors, Unloader for. W. Prellwitz. No. 1,027,760; May 28; Sp. p. 5822; Gaz. vol. 178; p. 1014.
Fluid-compressors, Unloader for compound. W. Prellwitz. No. 1,027,758; May 28; Sp. p. 5816; Gaz. vol. 178; p. 1013.
Fluid-containers, Locking mechanism for. L. M. Parmley. No. 1,029,713; June 18; Sp. p. 3582; Gaz. vol. 179; p. 632.
Fluid-controlling device, Adjustable automatic. G. T. Huxford. No. 1,044,053; Nov. 12; Gaz. vol. 184; p. 384.
Fluid-cooling apparatus. L. Ruthenburg. No. 1,013,449; Jan. 2; Sp. p. 785; Gaz. vol. 174; p. 125.
Fluid-dispensing apparatus. T. W. Howard. No. 1,040,332; Oct. 8; Gaz. vol. 183; p. 252.
Fluid-fuel burners, Cut-off device for. J. W. Peplinski. No. 1,039,793; Oct. 1; Gaz. vol. 183; p. 42.
Fluid-gage. H. Hastings. No. 1,039,280; Sept. 24; Gaz. vol. 182; p. 799.
Fluid-gage. T. L. Ganey. No. 1,039,923; Oct. 1; Gaz. vol. 183; p. 84.
Fluid-heater. C. G. Fitch. No. 1,025,798; May 7; Sp. p. 1514; Gaz. vol. 178; p. 239.
Fluid heater, Motor-. M. C. White and O. C. Duryea. No. 1,020,067; Mar. 12; Sp. p. 2256; Gaz. vol. 176; p. 388.
Fluid-heating means. C. E. Molesworth. No. 1,035,992; Aug. 20; Gaz. vol. 181; p. 605.
Fluid-heating systems, Regulator for. L. H. Phelps. No. 1,047,443; Dec. 17; Gaz. vol. 185; p. 641.
Fluid-meter. T. Charlton. No. 1,016,934; Feb. 13; Sp. p. 1558; Gaz. vol. 175; p. 276.
Fluid-meter. E. P. Coleman. No. 1,020,127; Mar. 12; Sp. p. 2383; Gaz. vol. 176; p. 408.
Fluid-meter. R. Lohse. No. 1,025,633; May 7; Sp. p. 1186; Gaz. vol. 178; p. 182.
Fluid-meter. J. W. Ledoux. No. 1,026,324; May 14; Sp. p. 2723; Gaz. vol. 178; p. 455.
Fluid-meter. J. W. Ledoux. No. 1,038,768; Sept. 17; Gaz. vol. 182; p. 607.
Fluid-meter. J. W. Ledoux. No. 1,043,115; Nov. 5; Gaz. vol. 184; p. 24.
Fluid-meter attachment. H. P. Westcott. No. 1,048,115; Dec. 24; Gaz. vol. 185; p. 902.
Fluid-meter, Integrating. A. G. Alexander. No. 1,020,735; Mar. 19; Sp. p. 3679; Gaz. vol. 176; p. 648.
Fluid mixer, Gaseous-. F. F. Thompson. No. 1,018,851; Feb. 27; Sp. p. 5811; Gaz. vol. 175; p. 1004.
Fluid-motor. L. E. Fish. No. 1,025,618; May 7; Sp. p. 1155; Gaz. vol. 178; p. 177.

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Fluid motor for milking apparatus, Elastic-. A. Kilborn. No. 1,032,220; July 9; Gaz. vol. 180; p. 514.
Fluid-operated regulator. W. Grun. No. 1,047,207; Dec. 17; Gaz. vol. 185; p. 558.
Fluid-operating mechanism. A. A. Brooks. No. 1,013,121; Jan. 2; Sp. p. 60; Gaz. vol. 174; p. 12.
Fluid-pressure, Apparatus for producing. J. F. Keys. No. 1,040,350; Oct. 8; Gaz. vol. 183; p. 258.
Fluid-pressure brake. W. V. Turner. No. 1,027,938; May 28; Sp. p. 6258; Gaz. vol. 178; p. 1075.
Fluid-pressure brake. W. V. Turner. No. 1,027,939; May 28; Sp. p. 6260; Gaz. vol. 178; p. 1075.
Fluid-pressure brake. W. V. Turner. No. 1,031,210; July 2; Gaz. vol. 180; p. 128.
Fluid-pressure-brake apparatus. M. Corrington. No. 1,037,445; Sept. 3; Gaz. vol. 182; p. 91.
Fluid-pressure compression or holding device. J. Boyer. No. 1,013,370; Jan. 2; Sp. p. 615; Gaz. vol. 174; p. 98.
Fluid-pressure control. F. E. Martin. No. 1,030,105; June 18; Sp. p. 4439; Gaz. vol. 179; p. 767.
Fluid-pressure-control apparatus. W. V. Turner. No. 1,025,340; May 7; Sp. p. 516; Gaz. vol. 178; p. 81.
Fluid-pressure-control device. L. F. Goodspeed. (Reissue.) No. 13,417; May 14; Sp. p. 3418; Gaz. vol. 178; p. 563.
Fluid-pressure device. G. Westinghouse. No. 1,036,043; Aug. 20; Gaz. vol. 181; p. 622.
Fluid-pressure engine. C. B. Redrup. No. 1,029,460; June 11; Sp. p. 3030; Gaz. vol. 179; p. 507.
Fluid-pressure engine. B. Brazelle. No. 1,031,834; July 9; Gaz. vol. 180; p. 385.
Fluid-pressure governor. J. F. Menningen. No. 1,048,424; Dec. 24; Gaz. vol. 185; p. 1004.
Fluid-pressure motor. J. McConnell. No. 1,013,885; Jan. 9; Sp. p. 1776; Gaz. vol. 174; p. 305.
Fluid-pressure motor. C. Weber and H. D. Swaller. No. 1,019,388; Mar. 5; Sp. p. 899; Gaz. vol. 176; p. 132.
Fluid-pressure motor. A. G. Elvin. No. 1,030,062; June 18; Sp. p. 4352; Gaz. vol. 179; p. 751.
Fluid-pressure motor. A. G. Elvin. No. 1,030,063; June 18; Sp. p. 4355; Gaz. vol. 179; p. 751.
Fluid-pressure motor for fire-box doors. A. G. Elvin. No. 1,030,234; June 18; Sp. p. 4706; Gaz. vol. 179; p. 810.
Fluid-pressure motor for fire-box doors or other reciprocating members. A. G. Elvin. No. 1,030,064; June 18; Sp. p. 4358; Gaz. vol. 179; p. 752.
Fluid-pressure regulator. C. O. Everhart. No. 1,019,617; Mar. 5; Sp. p. 1353; Gaz. vol. 176; p. 205.
Fluid-pressure regulator. J. D. Ramsey. No. 1,022,330; Apr. 2; Sp. p. 1210; Gaz. vol. 177; p. 193.
Fluid-pressure regulator. H. H. Kelley. No. 1,024,992; Apr. 30; Sp. p. 6987; Gaz. vol. 177; p. 1227.
Fluid-pressure regulator. C. C. Farmer. No. 1,031,173; July 2; Gaz. vol. 180; p. 115.
Fluid-pressure regulator. J. J. Bodwin. No. 1,039,639; Sept. 24; Gaz. vol. 182; p. 924.
Fluid-pressure regulator. J. E. Englesson. No. 1,044,444; Nov. 12; Gaz. vol. 184; p. 517.
Fluid-regulator. E. P. Noyes. No. 1,013,214; Jan. 2; Sp. p. 263; Gaz. vol. 174; p. 43.
Fluid shut-off. R. Salmon. No. 1,026,884; May 21; Sp. p. 3955; Gaz. vol. 178; p. 681.
Fluid tank, Priming-. L. A. Sherman. No. 1,013,324; Jan. 2; Sp. p. 527; Gaz. vol. 174; p. 83.
Fluid-translating device. R. N. Ehrhart. No. 1,029,979; June 18; Sp. p. 4170; Gaz. vol. 179; p. 722.
Fluid transmission. J. Lehne. No. 1,042,696; Oct. 29; Gaz. vol. 183; p. 1153.
Fluid-treating apparatus. J. R. Hickox and W. A. Pownall. No. 1,048,833; Dec. 31; Gaz. vol. 185; p. 1187.
Fluids, Apparatus for producing working. O. Kraus. No. 1,032,550; July 16; Gaz. vol. 180; p. 671.
Fluids, Means for feeding and mixing. J. B. Brockhurst. No. 1,014,945; Jan. 16; Sp. p. 4149; Gaz. vol. 174; p. 698.
Fluids, such as water and sewage, Treating. J. M. Neil. No. 1,045,096; Nov. 19; Gaz. vol. 184; p. 775.
Flume. G. L. Hess. No. 1,020,905; Mar. 19; Sp. p. 4033; Gaz. vol. 176; p. 704.
Flume. W. L. Swick. No. 1,022,008; Apr. 2; Sp. p. 556; Gaz. vol. 177; p. 87.
Flume. C. H. Ramsden. No. 1,027,627; May 28; Sp. p. 5547; Gaz. vol. 178; p. 970.
Flume. H. H. Winter. No. 1,049,023; Dec. 31; Gaz. vol. 185; p. 1252.
Flume construction. J. H. Martin. No. 1,044,463; Nov. 12; Gaz. vol. 184; p. 524.
Flume-gate. W. P. Harlan. No. 1,018,662; Feb. 27; Sp. p. 5419; Gaz. vol. 175; p. 939.
Flume-gate. H. H. Hogsett. No. 1,049,091; Dec. 31; Gaz. vol. 185; p. 1275.
Flume-joint. N. Johnson. No. 1,018,828; Feb. 27; Sp. p. 5776; Gaz. vol. 175; p. 997.
Flume, Metal. A. J. Wiley. No. 1,019,870; Mar. 12; Sp. p. 1841; Gaz. vol. 176; p. 323.
Flume, Metal. A. J. Wiley. No. 1,019,871; Mar. 12; Sp. p. 1843; Gaz. vol. 176; p. 323.
Flume or conduit, Metal. H. S. Williams. No. 1,031,407; July 2; Gaz. vol. 180; p. 196.
Flume or trough, Metal. E. E. Holtz. No. 1,022,138; Apr. 2; Sp. p. 821; Gaz. vol. 177; p. 130.
Flumes, Stone-catcher for. H. R. Van Eyck. No. 1,037,809; Sept. 3; Gaz. vol. 182; p. 210.
Flush, Closet-. F. W. Merkel. No. 1,037,034; Aug. 27; Gaz. vol. 181; p. 995.
Flush device for closets. E. Thiry and J. W. Schermerhorn. No. 1,015,719; Jan. 23; Sp. p. 5797; Gaz. vol. 174; p. 988.
Flush mechanism for closets. D. W. McNeil. No. 1,047,265; Dec. 17; Gaz. vol. 185; p. 579.
Flush, Railway-toilet. H. T. Cronk. No. 1,036,193; Aug. 20; Gaz. vol. 181; p. 677.
Flush-tank. R. G. Ferguson. No. 1,017,524; Feb. 13; Sp. p. 2854; Gaz. vol. 175; p. 481.
Flush-tank apparatus. H. D. Moïse. No. 1,023,522; Apr. 16; Sp. p. 3761; Gaz. vol. 177; p. 665.
Flush-tank cover. S. Drugan and J. Schoenthaler. No. 1,030,059; June 18; Sp. p. 4348; Gaz. vol. 179; p. 750.
Flush-tank-operating device. B. O. Tilden. (Reissue.) No. 13,591; Mar. 26; Sp. p. 5826; Gaz. vol. 176; p. 1045.
Flush-tank regulator. G. L. Weller. No. 1,039,620; Sept. 24; Gaz. vol. 182; p. 918.
Flush-tank valve control. W. H. Schulte. No. 1,013,225; Jan. 2; Sp. p. 302; Gaz. vol. 174; p. 48.
Flusher, Closet and urinal. B. E. Dorman. No. 1,025,740; May 7; Sp. p. 1398; Gaz. vol. 178; p. 218.
Flusher, Sidewalk-. E. Watkins. No. 1,022,345; Apr. 2; Sp. p. 1237; Gaz. vol. 177; p. 198.
Flushing apparatus. C. S. Sparling. No. 1,025,166; May 7; Sp. p. 123; Gaz. vol. 178; p. 21.
Flushing apparatus. R. H. O. McDonough. No. 1,027,622; May 28; Sp. p. 5538; Gaz. vol. 178; p. 968.
Flushing apparatus. P. F. Snyder. No. 1,037,679; Sept. 3; Gaz. vol. 182; p. 169.
Flushing apparatus. A. Summers. No. 1,039,332; Sept. 24; Gaz. vol. 182; p. 817.
Flushing apparatus. E. Fränkel. No. 1,041,612; Oct. 15; Gaz. vol. 183; p. 717.
Flushing apparatus. W. C. Ranson. No. 1,046,492; Dec. 10; Gaz. vol. 185; p. 280.
Flushing apparatus, Air. H. Beddoes. No. 1,014,363; Jan. 9; Sp. p. 2848; Gaz. vol. 174; p. 471.
Flushing apparatus for water-closets, Seat-actuated. L. D. Lawnin. No. 1,023,572; Apr. 16; Sp. p. 3870; Gaz. vol. 177; p. 681.
Flushing apparatus for water-pipes. G. W. Redeker. No. 1,016,521; Feb. 6; Sp. p. 664; Gaz. vol. 175; p. 100.
Flushing apparatus, Sanitary. E. J. Chilton. No. 1,038,294; Sept. 10; Gaz. vol. 182; p. 407.
Flushing apparatus, Tank-. W. Dulles. No. 1,028,198; June 4; Sp. p. 314; Gaz. vol. 179; p. 41.
Flushing apparatus, Water-closet-. F. M. Mackin. No. 1,024,010; Apr. 23; Sp. p. 4795; Gaz. vol. 177; p. 852.
Flushing device. C. F. Johnson. No. 1,029,687; June 18; Sp. p. 3507; Gaz. vol. 179; p. 622.
Flushing device. C. F. Johnson. No. 1,029,688; June 18; Sp. p. 3510; Gaz. vol. 179; p. 622.
Flushing device. A. Williman. No. 1,046,923; Dec. 10; Gaz. vol. 185; p. 431.
Flushing device, Automatic. F. Luna. No. 1,044,209; Nov. 12; Gaz. vol. 184; p. 438.
Flushing device, Closet-. A. A. Sutherland. No. 1,048,228; Dec. 24; Gaz. vol. 185; p. 939.
Flushing device for waste-pipes. L. I. Jones. No. 1,013,175; Jan. 2; Sp. p. 172; Gaz. vol. 174; p. 30.
Flushing device, Water-closet-. P. Haas. No. 1,034,789; Aug. 6; Gaz. vol. 181; p. 131.
Flushing-machine. F. F. Hawkins. No. 1,014,301; Jan. 9; Sp. p. 2686; Gaz. vol. 174; p. 448.
Flushing machine, Street-. J. I. Brorby. No. 1,019,126; Mar. 5; Sp. p. 269; Gaz. vol. 176; p. 41.
Flushing system for closets. L. Szczyglinski. No. 1,015,653; Jan. 23; Sp. p. 5656; Gaz. vol. 174; p. 966.
Flushing-tank. H. Hartmann. No. 1,030,174; June 18; Sp. p. 4564; Gaz. vol. 179; p. 789.
Flushing-tank. C. H. Zwermann. No. 1,032,317; July 9; Gaz. vol. 180; p. 548.
Flushing-tank. H. A. Thomas and C. H. Bodie. No. 1,035,269; Aug. 13; Gaz. vol. 181; p. 322.
Flushing-tank. H. S. Hawks. No. 1,045,788; Nov. 26; Gaz. vol. 184; p. 1047.
Flushing-tank. W. A. Fraser. No. 1,047,510; Dec. 17; Gaz. vol. 185; p. 666.
Flushing water-closets and the like, Apparatus for. H. Goldau. No. 1,038,347; Sept. 10; Gaz. vol. 182; p. 425.
Fob-holder. G. M. Rees. No. 1,019,990; Mar. 12; Sp. p. 2098; Gaz. vol. 176; p. 362.
Fob-ribbon holder. D. T. Denny. No. 1,039,497; Sept. 24; Gaz. vol. 182; p. 874.
Fob-strap. H. J. Collis. No. 1,039,900; Oct. 1; Gaz. vol. 183; p. 77.
Fodder binder and truck. W. A. Forbes. No. 1,015,673; Jan. 23; Sp. p. 5693; Gaz. vol. 174; p. 973.
Fodder composed of peat and molasses, Manufacturing. E. Joseph. No. 1,022,243; Apr. 2; Sp. p. 1045; Gaz. vol. 177; p. 166.
Fodder-cutter. J. Dick. No. 1,046,449; Dec. 10; Gaz. vol. 185; p. 264.

Alphabetical list of inventions—Continued.

Fodder, Preserving. J. K. Sharpe, Jr. No. 1,013,568; Jan. 2; Sp. p. 1033; Gaz. vol. 174; p. 166.
Fodder purifying and preparing machine. K. Finkenzeller. No. 1,036,476; Aug. 20; Gaz. vol. 181; p. 774.
Fog-signal. J. Downs. No. 1,047,180; Dec. 17; Gaz. vol. 185; p. 547.
Foil, Bronze. E. Oeser. No. 1,037,515; Sept. 3; Gaz. vol. 182; p. 115.
Foldable chair. N. Stock and J. N. Cordts. No. 1,027,012; May 21; Sp. p. 4255; Gaz. vol. 178; p. 726.
Folded product, Mechanism for producing a. S. G. Goss. No. 1,046,064; Dec. 3; Gaz. vol. 185; p. 91.
Folded product, Mechanism for producing a. S. G. Goss. No. 1,046,415; Dec. 3; Gaz. vol. 185; p. 216.
Folder, Combination bias, binding, and hem. M. M. Harris. No. 1,016,626; Feb. 6; Sp. p. 917; Gaz. vol. 175; p. 137.
Folding and wrapping machine. S. C. Cox. No. 1,045,124; Nov. 26; Gaz. vol. 184; p. 813.
Folding box. A. W. Beers. No. 1,013,110; Jan. 2; Sp. p. 31; Gaz. vol. 174; p. 8.
Folding box. H. Paul. No. 1,013,561; Jan. 2; Sp. p. 1022; Gaz. vol. 174; p. 164.
Folding box. G. C. Cornell. No. 1,014,951; Jan. 16; Sp. p. 4164; Gaz. vol. 174; p. 700.
Folding box. J. Balazs. No. 1,017,367; Feb. 13; Sp. p. 2510; Gaz. vol. 175; p. 426.
Folding box. J. C. Gordon. No. 1,027,200; May 21; Sp. p. 4694; Gaz. vol. 178; p. 789.
Folding box. A. W. Beers. No. 1,032,645; July 16; Gaz. vol. 180; p. 704.
Folding box. J. G. Reber. No. 1,035,638; Aug. 13; Gaz. vol. 181; p. 449.
Folding box. M. Schäfer. No. 1,040,242; Oct. 1; Gaz. vol. 183; p. 190.
Folding box. J. G. Reber. No. 1,040,984; Oct. 8; Gaz. vol. 183; p. 476.
Folding box. J. Regenstein. No. 1,041,872; Oct. 22; Gaz. vol. 183; p. 846.
Folding box. C. A. Woolsey. No. 1,043,995; Nov. 12; Gaz. vol. 184; p. 365.
Folding box. W. C. Willets. No. 1,044,960; Nov. 19; Gaz. vol. 184; p. 727.
Folding box. J. G. Reber. No. 1,046,017; Dec. 3; Gaz. vol. 185; p. 74.
Folding box, Staple-lock. J. J. Bradley. No. 1,048,031; Dec. 24; Gaz. vol. 185; p. 873.
Folding carrier. C. H. Cronk. No. 1,013,863; Jan. 9; Sp. p. 1723; Gaz. vol. 174; p. 298.
Folding carrier. J. H. McAllister. No. 1,028,048; May 28; Sp. p. 6491; Gaz. vol. 178; p. 1110.
Folding chair. F. W. Albert. No. 1,017,364; Feb. 13; Sp. p. 2507; Gaz. vol. 175; p. 425.
Folding chair. D. M. Neff. No. 1,017,791; Feb. 20; Sp. p. 3453; Gaz. vol. 175; p. 607.
Folding chair. J. Kitak. No. 1,029,067; June 11; Sp. p. 2164; Gaz. vol. 179; p. 372.
Folding chair. E. Lehmann. No. 1,033,108; July 23; Gaz. vol. 180; p. 898.
Folding chair. F. Simmons. No. 1,034,653; Aug. 6; Gaz. vol. 181; p. 82.
Folding chair and stand. J. Di Orio. No. 1,046,055; Dec. 3; Gaz. vol. 185; p. 88.
Folding chair or couch. A. J. Freedman. No. 1,044,160; Nov. 12; Gaz. vol. 184; p. 420.
Folding chair, Pocket. J. T. Hay. No. 1,035,823; Aug. 13; Gaz. vol. 181; p. 511.
Folding cup, Sanitary. J. V. Shaw. No. 1,034,522; Aug. 6; Gaz. vol. 181; p. 41.
Folding elevator. S. F. Welch. No. 1,048,013; Dec. 24; Gaz. vol. 185; p. 867.
Folding leg-bracket. S. S. Crockett. No. 1,043,675; Nov. 5; Gaz. vol. 184; p. 223.
Folding linen, cloth, and other material, Machine for. E. L. Collon. No. 1,031,915; July 9; Gaz. vol. 180; p. 412.
Folding-machine. C. S. Marshall. No. 1,013,414; Jan. 2; Sp. p. 714; Gaz. vol. 174; p. 113.
Folding-machine. J. W. Holmes. No. 1,022,736; Apr. 9; Sp. p. 2121; Gaz. vol. 177; p. 364.
Folding-machine. R. C. Seymour. No. 1,024,459; Apr. 23; Sp. p. 5772; Gaz. vol. 177; p. 1004.
Folding-machine. R. C. Seymour. No. 1,025,486; May 7; Sp. p. 846; Gaz. vol. 178; p. 132.
Folding-machine. H. C. Schroeder. No. 1,025,541; May 7; Sp. p. 977; Gaz. vol. 178; p. 151.
Folding-machine. J. D. Morgan. No. 1,029,140; June 11; Sp. p. 2324; Gaz. vol. 179; p. 396.
Folding-machine. H. K. King. No. 1,041,806; Oct. 22; Gaz. vol. 183; p. 822.
Folding-machine. F. G. Nind and F. Julyan. No. 1,048,996; Dec. 31; Gaz. vol. 185; p. 1242.
Folding mechanism. C. L. Johnston. No. 1,027,657; May 28; Sp. p. 5618; Gaz. vol. 178; p. 981.
Folding paper sheets and inserting them in envelops, Machine for. W. H. Young. No. 1,046,707; Dec. 10; Gaz. vol. 185; p. 357.
Folding rack. F. L. Herbin. No. 1,015,182; Jan. 16; Sp. p. 4610; Gaz. vol. 174; p. 778.
Folding table. J. Defatsch. No. 1,034,885; Aug. 6; Gaz. vol. 181; p. 163.
Folding table. W. C. Horner. No. 1,040,330; Oct. 8; Gaz. vol. 183; p. 251.
Folding table. W. A. McCarty. No. 1,042,020; Oct. 22; Gaz. vol. 183; p. 895.
Folding table and seat. G. A. Swanson. No. 1,018,593; Feb. 27; Sp. p. 5283; Gaz. vol. 175; p. 917.
Foliage, Machine for making artificial. G. G. Locke. No. 1,026,387; May 14; Sp. p. 2868; Gaz. vol. 178; p. 475.
Follower-board. H. K. Brooks. No. 1,030,277; June 25; Sp. p. 4828; Gaz. vol. 179; p. 864.
Food and making the same, Article of. M. Villegas. No. 1,018,595; Feb. 27; Sp. p. 5287; Gaz. vol. 175; p. 918.
Food and preparing the same, Wheat. W. T. Shepard. No. 1,013,453; Jan. 2; Sp. p. 792; Gaz. vol. 174; p. 127.
Food and producing same, Article of. R. L. Dollings. No. 1,039,912; Oct. 1; Gaz. vol. 183; p. 81.
Food-carrier. J. Hughes. No. 1,037,771; Sept. 3; Gaz. vol. 182; p. 198.
Food composition. F. M. Borchert. No. 1,023,919; Apr. 23; Sp. p. 4617; Gaz. vol. 177; p. 821.
Food compound. A. D. Warner. No. 1,018,462; Feb. 27; Sp. p. 4928; Gaz. vol. 175; p. 871.
Food compound. R. G. Jackson. No. 1,035,592; Aug. 13; Gaz. vol. 181; p. 433.
Food compound, Making a. C. Driscoll. No. 1,028,005; May 28; Sp. p. 6397; Gaz. vol. 178; p. 1097.
Food-cutter. J. C. Hall. No. 1,046,778; Dec. 10; Gaz. vol. 185; p. 382.
Food-dehydrating apparatus. G. D. Harris and J. S. Pollard. No. 1,017,412; Feb. 13; Sp. p. 2612; Gaz. vol. 175; p. 442.
Food-dehydrating apparatus. G. D. Harris and J. S. Pollard. No. 1,018,388; Feb. 20; Sp. p. 4758; Gaz. vol. 175; p. 814.
Food-fats, Producing. P. A. Schmitt. No. 1,034,036; July 30; Gaz. vol. 180; p. 1240.
Food from grain and making the same. H. D. Perky. No. 1,026,047; May 14; Sp. p. 2106; Gaz. vol. 178; p. 358.
Food, Horse and cattle. G. H. Strong. No. 1,013,696; Jan. 2; Sp. p. 1351; Gaz. vol. 174; p. 210.
Food, Machine for manufacturing grain into form for. H. D. Perky. No. 1,022,501; Apr. 9; Sp. p. 1577; Gaz. vol. 177; p. 282.
Food, Manufacture of a fish. J. Davidson. No. 1,047,760; Dec. 17; Gaz. vol. 185; p. 755.
Food, Manufacture of cattle. A. Roberti. No. 1,015,838; Jan. 30; Sp. p. 6044; Gaz. vol. 174; p. 1055.
Food, Manufacturing grain into form for. H. D. Perky. No. 1,019,831; Mar. 12; Sp. p. 1757; Gaz. vol. 176; p. 308.
Food materials into shreds or fibers, Machine for converting. W. E. Williams. No. 1,024,168; Apr. 23; Sp. p. 5166; Gaz. vol. 177; p. 907.
Food-mixer. H. H. Fellows. No. 1,026,259; May 14; Sp. p. 2578; Gaz. vol. 178; p. 432.
Food or condiment holder. T. A. Decker. No. 1,038,098; Sept. 10; Gaz. vol. 182; p. 342.
Food-paste threads, Apparatus for banking. O. E. and P. W. Funck. No. 1,044,449; Nov. 12; Gaz. vol. 184; p. 519.
Food-preserving chest. A. Loeb. No. 1,041,120; Oct. 15; Gaz. vol. 183; p. 555.
Food, Producing stock. J. Stehlin. No. 1,036,925; Aug. 27; Gaz. vol. 181; p. 957.
Food, Producing stock. J. Stehlin. No. 1,037,357; Sept. 3; Gaz. vol. 182; p. 60.
Food product. G. Schock. No. 1,014,099; Jan. 9; Sp. p. 2258; Gaz. vol. 174; p. 377.
Food product. R. M. Lawrence. No. 1,035,609; Aug. 13; Gaz. vol. 181; p. 439.
Food product and making the same. H. B. Hunter. No. 1,043,839; Nov. 12; Gaz. vol. 184; p. 310.
Food product and obtaining the same. F. X. O. Trudel. No. 1,039,849; Oct. 1; Gaz. vol. 183; p. 61.
Food product and preparing it. G. D. Harris and J. S. Pollard. No. 1,017,411; Feb. 13; Sp. p. 2609; Gaz. vol. 175; p. 442.
Food products, Preparing. P. F. Baldwin. No. 1,019,411; Mar. 5; Sp. p. 951; Gaz. vol. 176; p. 139.
Food products, Preparing cereal. R. E. Valentine. No. 1,034,169; July 30; Gaz. vol. 180; p. 1285.
Food-receptacle. F. G. Renaud. No. 1,015,400; Jan. 23; Sp. p. 5099; Gaz. vol. 174; p. 879.
Food, Stock. F. A. Barnes. No. 1,033,860; July 30; Gaz. vol. 180; p. 1175.
Foot and ankle brace. F. R. Anderson. No. 1,030,861; July 2; Gaz. vol. 180; p. 4.
Foot-cushion. R. W. Foster. No. 1,013,992; Jan. 9; Sp. p. 2020; Gaz. vol. 174; p. 341.
Foot-gear. B. A. Cox. No. 1,040,896; Oct. 8; Gaz. vol. 183; p. 445.
Foot-guard. S. K. Dunkle. No. 1,014,286; Jan. 9; Sp. p. 2655; Gaz. vol. 174; p. 443.
Foot-pedal switch. J. Helstrom. No. 1,019,745; Mar. 5; Sp. p. 1592; Gaz. vol. 176; p. 248.
Foot-power mechanism. R. W. Scott. No. 1,031,591; July 2; Gaz. vol. 180; p. 257.
Foot-power-operating-machine attachment. A. Kyyny. No. 1,040,698; Oct. 8; Gaz. vol. 183; p. 383.
Foot-rest. E. M. Bishop. No. 1,042,874; Oct. 29; Gaz. vol. 183; p. 1216.

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Foot-stool, Piano. J. A. Paczynski. No. 1,040,397; Oct. 8; Gaz. vol. 183; p. 274.
Foot-support. C. A. Howe. No. 1,025,571; May 7; Sp. p. 1048; Gaz. vol. 178; p. 162.
Foot-warmer, Electric. F. Kuhn. No. 1,025,144; May 7; Sp. p. 71; Gaz. vol. 178; p. 13.
Footwear. N. M. Ruthstein. No. 1,026,407; May 14; Sp. p. 2916; Gaz. vol. 178; p. 483.
Footwear. C. W. Evans. No. 1,046,751; Dec. 10; Gaz. vol. 185; p. 373.
Footwear, Antislipping attachment for. J. M. Alexander. No. 1,023,350; Apr. 16; Sp. p. 3420; Gaz. vol. 177; p. 611.
Footwear, Orthopedic. J. May. No. 1,043,331; Nov. 5; Gaz. vol. 184; p. 102.
Footwear-pad. L. S. Samuel. No. 1,036,911; Aug. 27; Gaz. vol. 181; p. 952.
Footwear, Sanitary. A. Hale. No. 1,030,085; June 18; Sp. p. 4402; Gaz. vol. 179; p. 760.
Footwear, Ventilating-cushion for. F. J. Drobinski. No. 1,029,110; June 11; Sp. p. 2262; Gaz. vol. 179; p. 386.
Footwear with heels, Washable. A. Hale. No. 1,036,999; Aug. 27; Gaz. vol. 181; p. 983.
Force-feed lubricator. A. W. Manzel. No. 1,014,403; Jan. 9; Sp. p. 2928; Gaz. vol. 174; p. 485.
Force-feed lubricator. A. W. Manzel. No. 1,032,487; July 16; Gaz. vol. 180; p. 650.
Force-feed lubricator. J. F. Dake. No. 1,046,563; Dec. 10; Gaz. vol. 185; p. 306.
Force-feed lubricator. T. C. Thomsen and A. Kirkham. No. 1,047,857; Dec. 17; Gaz. vol. 185; p. 788.
Forceps, Obstetrical. J. Sklar. No. 1,033,627; July 23; Gaz. vol. 180; p. 1072.
Forceps or the like, Bone-. A. De Vilbiss. No. 1,040,523; Oct. 8; Gaz. vol. 183; p. 317.
Forceps, Pig-. E. E. Adams and J. L. Dudek. No. 1,023,705; Apr. 16; Sp. p. 4111; Gaz. vol. 177; p. 722.
Forge, Metal-drawing. C. D. Crary. No. 1,040,282; Oct. 8; Gaz. vol. 183; p. 235.
Forging apparatus. R. F. Devine. No. 1,041,442; Oct. 15; Gaz. vol. 183; p. 663.
Forging apparatus, Metal-. E. E. Slick. No. 1,022,006; Apr. 2; Sp. p. 550; Gaz. vol. 177; p. 86.
Forging circular pieces, Machine for. J. Girlot. No. 1,040,979; Oct. 8; Gaz. vol. 183; p. 474.
Forging-machine. S. Baumgartner. No. 1,048,127; Dec. 24; Gaz. vol. 185; p. 907.
Forging-press. C. von Philp. No. 1,029,081; June 11; Sp. p. 2186; Gaz. vol. 179; p. 376.
Forging-press centering device. W. Ferrier. No. 1,036,206; Aug. 20; Gaz. vol. 181; p. 682.
Forging railway-axles, Dies for. J. M. Hansen. No. 1,041,998; Oct. 22; Gaz. vol. 183; p. 887.
Fork: *See* Bicycle spring-fork; Cycle-fork; Dumping-fork; Fish-fork; Hay-fork; Oyster-fork; Rake-fork; Spring-fork.
Fork. A. M. Moreaux. No. 1,031,657; July 2; Gaz. vol. 180; p. 280.
Fork and rake, Combined. J. Miller. No. 1,022,962; Apr. 9; Sp. p. 2591; Gaz. vol. 177; p. 440.
Fork attachment for removing food or other material impaled thereon. A. H. Edwards. No. 1,036,472; Aug. 20; Gaz. vol. 181; p. 773.
Fork-scraper. J. T. Mack. No. 1,016,696; Feb. 6; Sp. p. 1052; Gaz. vol. 175; p. 161.
Forks and spoons, Manufacture of metal. A. Wilzin. No. 1,026,421; May 14; Sp. p. 2940; Gaz. vol. 178; p. 487.
Form and skirt-frame, Waist-. E. McMullen. No. 1,037,650; Sept. 3; Gaz. vol. 182; p. 159.
Form, Bust-. O. C. Dennis. No. 1,033,788; July 30; Gaz. vol. 180; p. 1149.
Form, Bust and shoulder. A. M. Grean. No. 1,041,461; Oct. 15; Gaz. vol. 183; p. 670.
Form, Collapsible. H. O. Meek and C. E. Bradburn. No. 1,016,284; Feb. 6; Sp. p. 109; Gaz. vol. 175; p. 17.
Form, Collapsible garment-. I. Levin. No. 1,039,764; Oct. 1; Gaz. vol. 183; p. 32.
Form, Dress-. J. J. McHattie and A. D. Lyle. No. 1,021,108; Mar. 26; Sp. p. 4451; Gaz. vol. 176; p. 823.
Form, Dress-. G. B. Smith. No. 1,048,000; Dec. 24; Gaz. vol. 185; p. 863.
Form, Dressmaker's. G. L. Anderman. No. 1,044,470; Nov. 19; Gaz. vol. 184; p. 557.
Form, Folding garment-. B. Cahn. No. 1,028,991; June 11; Sp. p. 2009; Gaz. vol. 179; p. 346.
Form for garments, Folding. A. J. Lundberg. No. 1,044,462; Nov. 12; Gaz. vol. 184; p. 524.
Form for shaping and finishing garments. H. L. Nelke. No. 1,026,451; May 14; Sp. p. 3012; Gaz. vol. 178; p. 497.
Form, Garment-. J. Satin. No. 1,018,377; Feb. 20; Sp. p. 4731; Gaz. vol. 175; p. 810.
Form, Garment-. J. F. Gems. No. 1,019,449; Mar. 5; Sp. p. 1025; Gaz. vol. 176; p. 150.
Form, Garment-. I. Levin. No. 1,039,763; Oct. 1; Gaz. vol. 183; p. 32.
Form, Garment-. E. T. Palmenberg. No. 1,042,260; Oct. 22; Gaz. vol. 183; p. 974.
Form, Garment-. J. R. Hood. No. 1,043,428; Nov. 5; Gaz. vol. 184; p. 137.
Form, Garment-display. M. J. Forquer. No. 1,013,875; Jan. 9; Sp. p. 1761; Gaz. vol. 174; p. 302.
Form-locking device. T. H. Irvin. No. 1,036,629; Aug. 27; Gaz. vol. 181; p. 860.
Form-pad. C. Mayer and S. Yaffe. No. 1,018,066; Feb. 20; Sp. p. 4091; Gaz. vol. 175; p. 704.
Form, Sleeve-. L. Mollberg, A. G. and J. O. Storen. No. 1,018,724; Feb. 27; Sp. p. 5547; Gaz. vol. 175; p. 960.
Form, Sleeve-. A. Hinkel. No. 1,020,502; Mar. 19; Sp. p. 3163; Gaz. vol. 176; p. 568.
Form stand, Dress-. W. J. Taplinger. No. 1,022,608; Apr. 9; Sp. p. 1814; Gaz. vol. 177; p. 317.
Form, Waist-. E. Levin. No. 1,036,865; Aug. 27; Gaz. vol. 181; p. 938.
Forms, Making dress-. G. W. Kenney. No. 1,044,662; Nov. 19; Gaz. vol. 184; p. 625.
Forming and wrapping machine. J. W. Hicks. No. 1,044,048; Nov. 12; Gaz. vol. 184; p. 382.
Forming characters out of sheet material, Apparatus for. A. Wilkinson. No. 1,048,775; Dec. 31; Gaz. vol. 185; p. 1166.
Forming-machine. J. Nazel. No. 1,019,073; Mar. 5; Sp. p. 143; Gaz. vol. 176; p. 24.
Forming-machine. R. A. Witherill. No. 1,041,550; Oct. 15; Gaz. vol. 183; p. 698.
Forming-press. E. Haefely. No. 1,028,108; June 4; Sp. p. 31; Gaz. vol. 179; p. 8.
Formaldehyde candles, Composition of matter for making. C. Katzenberger. No. 1,047,416; Dec. 17; Gaz. vol. 185; p. 632.
Formaldehyde compounds and products, Manufacture of. P. Alsleben. No. 1,018,736; Feb. 27; Sp. p. 5572; Gaz. vol. 175; p. 964.
Formaldehyde, Producing. G. Fernekes. No. 1,038,547; Sept. 17; Gaz. vol. 182; p. 530.
Formaldehyde-producing apparatus. G. Fernekes. No. 1,038,546; Sept. 17; Gaz. vol. 182; p. 530.
Formates, Manufacture of. O. L. A. Dubose, A. D. Luttringer, and H. Denis. No. 1,019,230; Mar. 5; Sp. p. 489; Gaz. vol. 176; p. 78.
Formates, Producing. A. Hempel. No. 1,017,261; Feb. 13; Sp. p. 2298; Gaz. vol. 175; p. 391.
Formic esters, Preparation of. A. Wolff. No. 1,039,875; Oct. 1; Gaz. vol. 183; p. 69.
Formylcelluloses, Producing. E. Bronnert. No. 1,046,729; Dec. 10; Gaz. vol. 185; p. 365.
Foundation. E. Frankignoul. No. 1,049,221; Dec. 31; Gaz. vol. 185; p. 1318.
Foundation-fastener. D. S. Jenkins. No. 1,035,709; Aug. 13; Gaz. vol. 181; p. 472.
Foundations, Constructing. J. F. O'Rourke. No. 1,038,635; Sept. 17; Gaz. vol. 182; p. 561.
Foundry-flask. I. R. Smith. No. 1,043,977; Nov. 12; Gaz. vol. 184; p. 359.
Foundry plant, Pipe-. J. R. McWane. No. 1,035,374; Aug. 13; Gaz. vol. 181; p. 360.
Fount, Dispensing-. J. M. Travis. No. 1,030,353; June 25; Sp. p. 5003; Gaz. vol. 179; p. 891.
Fountain: *See* Automatic fountain; Drawing-room fountain; Drinking-fountain; Ink-fountain; Luminous fountain; Poultry-fountain; Soap-fountain; Soda-fountain; Water-fountain.
Fountain. H. Strumpf. No. 1,036,368; Aug. 20; Gaz. vol. 181; p. 739.
Fountain and centrifugal pump for use therewith. A. J. and W. C. Needham. No. 1,020,569; Mar. 19; Sp. p. 3316; Gaz. vol. 176; p. 592.
Fountain-mold. T. J. Harrison. No. 1,021,927; Apr. 2; Sp. p. 363; Gaz. vol. 177; p. 60.
Fountain-tank. A. N. Eaton. No. 1,028,998; June 11; Sp. p. 2028; Gaz. vol. 179; p. 348.
Fountains, Valve for drinking-. J. D. Ramsey. No. 1,016,956; Feb. 13; Sp. p. 1615; Gaz. vol. 175; p. 284.
Fractures of the thigh or upper leg, Apparatus for use in the treatment of. M. Rothenberg. No. 1,044,424; Nov. 12; Gaz. vol. 184; p. 511.
Frame: *See* Asparagus-cutting frame; Automobile-frame; Bag-frame; Bed-frame; Bed-spring frame; Bedstead and other frame; Bicycle-frame; Binder-frame; Bit-frame; Box-frame; Candy-dipping frame; Car-frame; Car end frame; Car-roof frame; Chair-frame; Clock-frame; Corn-header frame; Cultivator-frame; Cycle-frame; Cycle spring-frame; Door-frame; Elevator-door frame; Grain-drill frame; Hacksaw-frame; Hammock-frame; Honey-frame; Index-frame; Knitting-frame; Locomotive-frame; Magnet-frame; Metal frame; Metallic frame; Mine-gallery frame; Mirror and like frame; Oven-door frame; Photo printing-frame; Photographic-printing frame; Pince-nez spring-frame; Plow-frame; Printing-frame; Quilting-frame; Quilting and stretching frame; Rake-frame; Razor-frame; Shelf-frame; Sign-frame; Sleigh side frame; Spectacle-frame; Spinning-frame; Spinning and doubling frame; Spinning and twisting frame; Spring-frame; Stationery-drying frame; Stretching-frame; Supporting-frame; Truck-frame; Truck side frame; Type-bar-supporting frame; Vehicle-frame; Velocipede-frame; Velocipede spring-frame; Wind-shield frame; Window-frame.
Frame. A. L. Weis. No. 1,026,838; May 21; Sp. p. 3848; Gaz. vol. 178; p. 665.

Alphabetical list of inventions—Continued.

Frame. N. L. Jacobus. No. 1,034,621; Aug. 6; Gaz. vol. 181; p. 72.
Frame. E. J. Dreisbach. No. 1,044,634; Nov. 19; Gaz. vol. 184; p. 614.
Frame construction. F. B. Upton. No. 1,022,448; Apr. 9; Sp. p. 1471; Gaz. vol. 177; p. 264.
Frame-corner connector. G. Allgeier. No. 1,046,932; Dec. 10; Gaz. vol. 185; p. 434.
Frame corner-piece. J. L. Kuntz. No. 1,016,278; Feb. 6; Sp. p. 101; Gaz. vol. 175; p. 15.
Framing, Adjustable. J. Staren. No. 1,015,518; Jan. 23; Sp. p. 5354; Gaz. vol. 174; p. 918.
Framing-tool. C. C. Taintor. No. 1,029,774; June 18; Sp. p. 3699; Gaz. vol. 179; p. 652.
Framing-tool. M. F. Adkins. No. 1,039,076; Sept. 24; Gaz. vol. 182; p. 727.
Framing-tool. R. C. Kendrick. No. 1,043,605; Nov. 5; Gaz. vol. 184; p. 199.
Frameless gate. A. Campbell. No. 1,027,237; May 21; Sp. p. 4768; Gaz. vol. 178; p. 802.
Frameless gate. J. S. Adams. No. 1,046,929; Dec. 10; Gaz. vol. 185; p. 433.
Franking-machine. F. A. and A. P. Fischer. No. 1,034,096; July 30; Gaz. vol. 180; p. 1260.
Free-running wheel. E. G. Owen. No. 1,032,079; July 9; Gaz. vol. 180; p. 466.
Freezer. J. R. Carroll. No. 1,015,002; Jan. 16; Sp. p. 4275; Gaz. vol. 174; p. 718.
Freezer. W. A. Model. No. 1,032,561; July 16; Gaz. vol. 180; p. 674.
Freezer. G. F. Dickson. No. 1,039,654; Sept. 24; Gaz. vol. 182; p. 930.
Freezers, churns, &c., Dasher for. H. Griswold. No. 1,027,416; May 28; Sp. p. 5138; Gaz. vol. 178; p. 901.
Freezing apparatus. G. F. Dickson. No. 1,039,655; Sept. 24; Gaz. vol. 182; p. 930.
Freezing devices, Supporting-bracket for. E. Beckworth. No. 1,045,932; Dec. 3; Gaz. vol. 185; p. 47.
Freight-carrier. J. W. Reno. No. 1,018,586; Feb. 27; Sp. p. 5269; Gaz. vol. 175; p. 915.
Freight-handling means. S. H. Libby. No. 1,022,033; Apr. 2; Sp. p. 601; Gaz. vol. 177; p. 95.
Freight-handling system. W. H. McCune. No. 1,040,229; Oct. 1; Gaz. vol. 183; p. 186.
Frequency-meter. A. F. Poole. No. 1,036,900; Aug. 27; Gaz. vol. 181; p. 948.
Frequency-responsive device. B. Frankenfield. No. 1,029,007; June 11; Sp. p. 2048; Gaz. vol. 179; p. 352.
Friction-brake. H. C. C. Brunt. No. 1,022,656; Apr. 9; Sp. p. 1913; Gaz. vol. 177; p. 334.
Friction-coupling. H. F. Wallmann. No. 1,045,480; Nov. 26; Gaz. vol. 184; p. 938.
Friction reversing mechanism. H. B. Anderson. No. 1,032,174; July 9; Gaz. vol. 180; p. 498.
Friction-top can. T. Graham. No. 1,022,074; Apr. 2; Sp. p. 683; Gaz. vol. 177; p. 109.
Friction-top can. R. M. Breckenridge. No. 1,031,238; July 2; Gaz. vol. 180; p. 138.
Friction-top can, Compartment. H. W. Jones. No. 1,029,017; June 11; Sp. p. 2069; Gaz. vol. 179; p. 356.
Friction transmission mechanism. H. B. Clark. No. 1,035,155; Aug. 13; Gaz. vol. 181; p. 281.
Friction transmission mechanism, Changeable-speed. I. B. Hammond. No. 1,028,019; May 28; Sp. p. 6418; Gaz. vol. 178; p. 1101.
Friction-wheel. J. Born. No. 1,013,117; Jan. 2; Sp. p. 52; Gaz. vol. 174; p. 11.
Frictional device, Effort-transmitting. H. W. Leonard. No. 1,044,894; Nov. 19; Gaz. vol. 184; p. 705.
Froth-suppressor, Centrifugal. E. D. Hanson and G. G. F. C. Winkler. No. 1,031,441; July 2; Gaz. vol. 180; p. 207.
Fruit and nut squeezer. R. J. Goodnow. No. 1,026,670; May 21; Sp. p. 3476; Gaz. vol. 178; p. 607.
Fruit and other grader. E. E. Wagg. No. 1,027,089; May 21; Sp. p. 4467; Gaz. vol. 178; p. 753.
Fruit and vegetable scarifying device. J. G. Lannoye. No 1,016,338; Feb. 6; Sp. p. 233; Gaz. vol. 175; p. 36.
Fruit assorting and packing table. G. Sykes. No. 1,046,038; Dec. 3; Gaz. vol. 185; p. 82.
Fruit-canning exhaust-box. W. C. Anderson and A. R. Thompson. No. 1,033,369; July 23; Gaz. vol. 180; p. 988.
Fruit-cleaning machine. E. D. Howard. No. 1,025,062; Apr. 30; Sp. p. 7109; Gaz. vol. 177; p. 1249.
Fruit-clippers. F. J. Dolan. No. 1,037,737; Sept. 3; Gaz. vol. 182; p. 188.
Fruit-cutter. F. T. Lillick. No. 1,042,240; Oct. 22; Gaz. vol. 183; p. 967.
Fruit-drier. C. C. Simms. No. 1,025,212; May 7; Sp. p. 226; Gaz. vol. 178; p. 37.
Fruit-drier. W. H. H. Swett. No. 1,044,288; Nov. 12; Gaz. vol. 184; p. 465.
Fruit-drier. E. F. Tucker. No. 1,045,643; Nov. 26; Gaz. vol. 184; p. 996.
Fruit-elevator. F. Stebler. No. 1,027,573; May 28; Sp. p. 5457; Gaz. vol. 178; p. 954.
Fruit-elevator. J. B. Horrell and A. S. Bryant. No. 1,028,823; June 4; Sp. p. 1618; Gaz. vol. 179; p. 252.
Fruit extracts, Apparatus for making. E. G. Ressencourt. No. 1,017,800; Feb. 20; Sp. p. 3473; Gaz. vol. 175; p. 611.
Fruit-gatherer. P. H. Lint. No. 1,035,613; Aug. 13; Gaz. vol. 181; p. 441.
Fruit-gathering device. B. Russell. No. 1,023,881; Apr. 23; Sp. p. 4508; Gaz. vol. 177; p. 807.
Fruit-grader. N. J. Ofstad. No. 1,030,479; June 25; Sp. p. 5285; Gaz. vol. 179; p. 937.
Fruit-grader. C. Watson. No. 1,030,552; June 25; Sp. p. 5486; Gaz. vol. 179; p. 963.
Fruit-grader. E. N. Maull. No. 1,035,887; Aug. 20; Gaz. vol. 181; p. 571.
Fruit-grader. J. A. Woods, Jr. No. 1,038,056; Sept. 10; Gaz. vol. 182; p. 328.
Fruit-grader. O. K. Porter. No. 1,043,249; Nov. 5; Gaz. vol. 184; p. 72.
Fruit grading and sizing machine. W. C. Rofkar. No. 1,042,037; Oct. 22; Gaz. vol. 183; p. 901.
Fruit grading and sorting machine. J. L. Hamilton No. 1,020,093; Mar. 12; Sp. p. 2311; Gaz. vol. 176; p. 396.
Fruit-grading machine. R. D. Van Duyne. No. 1,031,403; July 2; Gaz. vol. 180; p. 194.
Fruit-grading machine. J. B. Hart. No. 1,048,963; Dec. 31; Gaz. vol. 185; p. 1230.
Fruit-handling machine. W. H. Boutell. No. 1,026,299; May 14; Sp. p. 2660; Gaz. vol. 178; p. 446.
Fruit-jar. E. R. Glaser. No. 1,023,560; Apr. 16; Sp. p. 3842; Gaz. vol. 177; p. 677.
Fruit-jar. E. E. Carlson. No. 1,036,960; Aug. 27; Gaz. vol. 181; p. 969.
Fruit-jar. F. Brelle. No. 1,042,390; Oct. 29; Gaz. vol. 183; p. 1044.
Fruit, &c., Method and apparatus for washing. W. F. Hunt and F. E. Murphy. No. 1,047,639; Dec. 17; Gaz. vol. 185; p. 712.
Fruit-picker. C. F. Fellows. No. 1,013,144; Jan. 2; Sp. p. 105; Gaz. vol. 174; p. 19.
Fruit-picker. J. H. Wyatt. No. 1,016,663; Feb. 6; Sp. p. 989; Gaz. vol. 175; p. 149.
Fruit-picker. S. M. Work. No. 1,018,287; Feb. 20; Sp. p. 4546; Gaz. vol. 175; p. 780.
Fruit-picker. C. H. Baker. No. 1,023,709; Apr. 16; Sp. p. 4122; Gaz. vol. 177; p. 723.
Fruit-picker. K. D. Pierce and S. C. Ellis. No. 1,024,358; Apr. 23; Sp. p. 5540; Gaz. vol. 177; p. 971.
Fruit-picker. H. D. Starr. No. 1,025,214; May 7; Sp. p. 231; Gaz. vol. 178; p. 38.
Fruit-picker. J. N. Parker. No. 1,025,826; May 7; Sp. p. 1571; Gaz. vol. 178; p. 249.
Fruit-picker. F. Remaly. No. 1,026,770; May 21; Sp. p. 3706; Gaz. vol. 178; p. 642.
Fruit-picker. A. Murdoch. No. 1,026,996; May 21; Sp. p. 4222; Gaz. vol. 178; p. 720.
Fruit-picker. I. Arnold. No. 1,034,333; July 30; Gaz. vol. 180; p. 1341.
Fruit-picker. S S. Eccleston. No. 1,034,989; Aug. 6; Gaz. vol. 181; p. 196.
Fruit-picker. C. Olsen. No. 1,038,425; Sept. 10; Gaz. vol. 182; p. 454.
Fruit-picker. J. F. Bookwalter. No. 1,039,640; Sept. 24; Gaz. vol. 182; p. 924.
Fruit-picker. A. M. Hughes. No. 1,040,947; Oct. 8; Gaz. vol. 183; p. 462.
Fruit-picker. S. E. Price. No. 1,045,322; Nov. 26; Gaz. vol. 184; p. 881.
Fruit-picker. A. R. Shaw. No. 1,046,116; Dec. 3; Gaz. vol. 185; p. 109.
Fruit-picker. C. Bauer. No. 1,047,880; Dec. 17; Gaz. vol. 185; p. 796.
Fruit-picker's bag. E. A. Williams. No. 1,017,721; Feb. 20; Sp. p. 3245; Gaz. vol. 175; p. 582.
Fruit-picker's receptacle. J. S. Barnett. No. 1,029,581; June 18; Sp. p. 3276; Gaz. vol. 179; p. 583.
Fruit-picking bag. F. W. Burch. No. 1,029,486; June 11; Sp. p. 3075; Gaz. vol. 179; p. 516.
Fruit-picking tool. H. P. Guy. No. 1,021,595; Mar. 26; Sp. p. 5520; Gaz. vol. 176; p. 991.
Fruit pitter and splitter. I. S. Goldman. No. 1,047,786; Dec. 17; Gaz. vol. 185; p. 763.
Fruit-pitter, Hand. E. A. Vary. No. 1,038,993; Sept. 17; Gaz. vol. 182; p. 684.
Fruit-pitting machine. J. B. Foote. No. 1,024,564; Apr. 30; Sp. p. 6085; Gaz. vol. 177; p. 1077.
Fruit-pitting machine. J. B. Foote. No. 1,024,625; Apr. 30; Sp. p. 6229; Gaz. vol. 177; p. 1098.
Fruit-precooling apparatus. S. M. Woodbridge. No. 1,017,723; Feb. 20; Sp. p. 3248; Gaz. vol. 175; p. 582.
Fruit-pressing device. T. E. Corbett. No. 1,034,207; July 30; Gaz. vol. 180; p. 1296.
Fruit product, Desiccated-. C. N. Tinklepaugh. No. 1,033,637; July 23; Gaz. vol. 180; p. 1075.
Fruit products, Fumigator for. A. Burton. No. 1,017,647; Feb. 20; Sp. p. 3090; Gaz. vol. 175; p. 558.
Fruit-protector. A. G. McAdie. No. 1,021,691; Mar. 26; Sp. p. 5674; Gaz. vol. 176; p. 1021.
Fruit-pulping machine. C. J. and A. Miller. No. 1,047,970; Dec. 24; Gaz. vol. 185; p. 853.

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Fruit-sizer. C. C. McIntosh. No. 1,019,341; Mar. 5; Sp. 747; Gaz. vol. 176; p. 116.
Fruit-spreading machine. G. W. Allen. No. 1,033,076; July 23; Gaz. vol. 180; p. 887.
Fruit, Treating. E. L. P. Thomas. No. 1,047,592; Dec. 17; Gaz. vol. 185; p. 695.
Frying-pan. J. J. White and L. M. Frederick. No. 1,048,015; Dec. 24; Gaz. vol. 185; p. 868.
Frying-pan attachment. H. Osborn. No. 1,021,425; Mar. 26; Sp. p. 5160; Gaz. vol. 176; p. 934.
Fuel. E. J. Dolan. No. 1,025,902; May 7; Sp. p. 1780; Gaz. vol. 178; p. 273.
Fuel and making the same, Artificial. B. E. Gamble. No. 1,047,198; Dec. 17; Gaz. vol. 185; p. 555.
Fuel and producing fuel from lignocellulose. M. F. Ewen and G. H. Tomlinson. No. 1,032,391; July 16; Gaz. vol. 180; p. 618.
Fuel, Apparatus for feeding fine. J. A. Welton. No. 1,022,805; Apr. 9; Sp. p. 2260; Gaz. vol. 177; p. 386.
Fuel, Apparatus for registering the consumption of liquid. R. F. O. Chauvin and R. Arnoux. No. 1,043,669; Nov. 5; Gaz. vol. 184; p. 221.
Fuel-briquets, Making. A. M. Mitchell. No. 1,029,022; June 11; Sp. p. 2077; Gaz. vol. 179; p. 357.
Fuel-burning apparatus. C. J. Coleman. No. 1,024,925; Apr. 30; Sp. p. 6854; Gaz. vol. 177; p. 1205.
Fuel composition. B. Appel and S. S. Goldman. No. 1,019,746; Mar. 12; Sp. p. 1605; Gaz. vol. 176; p. 281.
Fuel-consumer, heat-generator, and heater. A. W. Brand. No. 1,015,665; Jan. 23; Sp. p. 5678; Gaz. vol. 174; p. 970.
Fuel-economizer. E. B. Freeman. No. 1,043,312; Nov. 5; Gaz. vol. 184; p. 95.
Fuel-feed system. F. M. Murphy. No. 1,024,351; Apr. 23; Sp. p. 5529; Gaz. vol. 177; p. 969.
Fuel-feeder and carbureter, Vacuum. E. P. Noyes. No. 1,041,662; Oct. 15; Gaz. vol. 183; p. 736.
Fuel-feeding apparatus. J. C. Waugh. No. 1,043,488; Nov. 5; Gaz. vol. 184; p. 159.
Fuel-feeding apparatus, Powdered-. W. R. Dunn. No. 1,028,997; June 11; Sp. p. 2026; Gaz. vol. 179; p. 348.
Fuel-feeding device, Gravity. H. Clouston. No. 1,022,772; Apr. 9; Sp. p. 2191; Gaz. vol. 177; p. 376.
Fuel-feeding mechanism. W. F. Smith. No. 1,025,841; May 7; Sp. p. 1597; Gaz. vol. 178; p. 253.
Fuel, Fixer for gaseous. H. E. Whiting. No. 1,023,402; Apr. 16; Sp. p. 3527; Gaz. vol. 177; p. 628.
Fuel-injector. E. M. Smith. No. 1,018,276; Feb. 20; Sp. p. 4517; Gaz. vol. 175; p. 776.
Fuel, Making artificial. O. A. Ford. No. 1,031,255; July 2; Gaz. vol. 180; p. 144.
Fuel preparing and feeding apparatus, Fine-. R. Pitcairn. No. 1,048,869; Dec. 31; Gaz. vol. 185; p. 1198.
Fuel-reservoir. W. H. Moran. No. 1,039,573; Sept. 24; Gaz. vol. 182; p. 902.
Fuel-supply tank. A. W. Hutchins. No. 1,033,897; July 30; Gaz. vol. 180; p. 1189.
Fuel, Transporting and utilizing. J. H. Hoadley. No. 1,039,399; Sept. 24; Gaz. vol. 182; p. 840.
Fuel, Utilizing spent bark or analogous material as a. G. M. Conway. No. 1,013,988; Jan. 9; Sp. p. 2010; Gaz. vol. 174; p. 340.
Fuel-wastes and generating power, Method and means for utilizing. J. M. W. Kitchen. No. 1,041,810; Oct. 22; Gaz. vol. 183; p. 824.
Fullers' earth and analogous materials, Separating and purifying. C. C. Ruprecht. No. 1,024,104; Apr. 23; Sp. p. 5011; Gaz. vol. 177; p. 885.
Fulling-machine. A. G. Schultz and D. M. Fuller. No. 1,022,603; Apr. 9; Sp. p. 1796; Gaz. vol. 177; p. 315.
Fume-arrester. L. D. Royce and L. Wallerstein. No. 1,031,089; July 2; Gaz. vol. 180; p. 86.
Fumigating apparatus. J. W. and C. A. Scott. No. 1,021,270; Mar. 26; Sp. p. 4814; Gaz. vol. 176; p. 878.
Fumigating apparatus. C. A. Nye. No. 1,031,145; July 2; Gaz. vol. 180; p. 105.
Fumigating, deodorizing, and disinfecting sewers, &c., Apparatus for. C. E. Beeman. No. 1,034,862; Aug. 6; Gaz. vol. 181; p. 156.
Fumigation apparatus. F. M. Duncan and W. S. Eisenberg. No. 1,037,744; Sept. 3; Gaz. vol. 182; p. 189.
Fumigator. P. T. McCarty, J. and E. Michmershuizen. No. 1,022,491; Apr. 9; Sp. p. 1553; Gaz. vol. 177; p. 279.
Fumigator. F. C. Foster. No. 1,034,777; Aug. 6; Gaz. vol. 181; p. 126.
Fumigator, Fowl-. F. M. Nall. No. 1,040,387; Oct. 8; Gaz. vol. 183; p. 270.
Funnel. E. Dobartz and W. H. Sigley. No. 1,027,378; May 21; Sp. p. 5050; Gaz. vol. 178; p. 850.
Funnel. A. J. Corsi. No. 1,028,680; June 4; Sp. p. 1322; Gaz. vol. 179; p. 204.
Funnel. G. L. Miller. No. 1,031,567; July 2; Gaz. vol. 180; p. 249.
Funnel. F. L. Hoaglin. No. 1,033,173; July 23; Gaz. vol. 180; p. 920.
Funnel. J. J. Lacy and S. Diamond. No. 1,036,271; Aug. 20; Gaz. vol. 181; p. 705.
Funnel. G. F. Montgomery. No. 1,045,312; Nov. 26; Gaz. vol. 184; p. 878.
Funnel, Automatic. F. E. Gilbert. No. 1,023,012; Apr. 9; Sp. p. 2678; Gaz. vol. 177; p. 457.
Funnel-holder. J. S. Shope and J. K. Shanaman. No. 1,045,622; Nov. 26; Gaz. vol. 184; p. 989.
Fur. E. E. Evers. No. 1,029,858; June 18; Sp. p. 3917; Gaz. vol. 179; p. 682.
Fur-resembling materials, Machine for producing. G. Riedel. No. 1,034,836; Aug. 6; Gaz. vol. 181; p. 146.
Furring-plate, Metallic. W. L. Caldwell. No. 1,026,301; May 14; Sp. p. 2666; Gaz. vol. 178; p. 446.
Furnace: *See* Annealing-furnace; Annealing, &c., furnace; Balling-furnace; Blast-furnace; Boiler-furnace; Carbonizing-furnace; Cement-furnace; Channel-furnace; Coal-furnace; Crucible-furnace; Electric furnace; Electric induction-furnace; Electric melting-furnace; Electrical resistance furnace; Garbage-incinerating furnace; Gas-furnace; Gas and smoke burning furnace; Gas-burning furnace; Gas-generating furnace; Gas-generator furnace; Generator-furnace; Glass-furnace; Glass-gathering furnace; Glass-pot furnace; Heating-furnace; Hot-air furnace; Hydrocarbon-furnace; Incinerating-furnace; Induction-furnace; Lignite-burning furnace; Liquid-fuel furnace: Locomotive-furnace; Mechanic's furnace; Melting-furnace; Metal-melting furnace; Metallurgical furnace; Oil-burning furnace; Oil-fed furnace; Open-hearth furnace; Ore-roasting furnace; Portable furnace; Pot-furnace; Regenerative furnace; Regenerative reversing-furnace; Reverberatory furnace; Roasting-furnace; Salt-cake furnace; Sand-drying furnace; Sherardizing-furnace; Sintering-furnace; Smelter-furnace; Smelting-furnace; Smoke-consuming furnace; Steam and hot-water furnace; Steam-boiler furnace; Stoker-furnace; Warm-air furnace; Water-heating furnace; Zinc-furnace; Zinc retort-furnace.
Furnace. M. R. Machol. No. 1,013,793; Jan. 2; Sp. p. 1537; Gaz. vol. 174; p. 244.
Furnace. A. Robertson. No. 1,014,724; Jan. 16; Sp. p. 3640; Gaz. vol. 174; p. 622.
Furnace. S. B. Goff. No. 1,015,014; Jan. 16; Sp. p. 4296; Gaz. vol. 174; p. 722.
Furnace. E. Curran. No. 1,015,616; Jan. 23; Sp. p. 5568; Gaz. vol. 174; p. 954.
Furnace. F. Siemens. No. 1,017,181; Feb. 13; Sp. p. 2115; Gaz. vol. 175; p. 363.
Furnace. N. Frost. No. 1,018,967; Feb. 27; Sp. p. 6066; Gaz. vol. 175; p. 1044.
Furnace. D. J. McKenzie. No. 1,019,508; Mar. 5; Sp. p. 1158; Gaz. vol. 176; p. 171.
Furnace. P. J. Gordon and R. T. Prall. No. 1,021,144; Mar. 26; Sp. p. 4531; Gaz. vol. 176; p. 835.
Furnace. J. D. Swindell. No. 1,021,342; Mar. 26; Sp. p. 4957; Gaz. vol. 176; p. 905.
Furnace. L. Duemer. No. 1,023,136; Apr. 16; Sp. p. 2987; Gaz. vol. 177; p. 537.
Furnace. O. D. and H. M. Cotton. No. 1,023,817; Apr. 23; Sp. p. 4351; Gaz. vol. 177; p. 787.
Furnace. E. A. Biechele. No. 1,025,673; May 7; Sp. p. 1262; Gaz. vol. 178; p. 195.
Furnace. E. T. Davison. No. 1,027,187; May 21; Sp. p. 4661; Gaz. vol. 178; p. 783.
Furnace. E. W. Rice. No. 1,027,436; May 28; Sp. p. 5180; Gaz. vol. 178; p. 908.
Furnace. J. Kauth. No. 1,028,572; June 4; Sp. p. 1109; Gaz. vol. 179; p. 168.
Furnace. A. R. Earl. No. 1,032,661; July 16; Gaz. vol. 180; p. 709.
Furnace. J. Salessky. No. 1,033,949; July 30; Gaz. vol. 180; p. 1207.
Furnace. B. F. Sturgeon. No. 1,034,162; July 30; Gaz. vol. 180; p. 1282.
Furnace. R. Okrassa. No. 1,034,495; Aug. 6; Gaz. vol. 181; p. 32.
Furnace. G. Peterson. No. 1,035,731; Aug. 13; Gaz. vol. 181; p. 479.
Furnace. F. C. Armstead. No. 1,037,715; Sept. 3; Gaz. vol. 182; p. 181.
Furnace. J. D. Stewart. No. 1,038,677; Sept. 17; Gaz. vol. 182; p. 575.
Furnace. F. F. Corliss. No. 1,039,101; Sept. 24; Gaz. vol. 182; p. 735.
Furnace. O. Trossin. No. 1,039,217; Sept. 24; Gaz. vol. 182; p. 776.
Furnace. W. S. Quigley. No. 1,039,801; Oct. 1; Gaz. vol. 183; p. 44.
Furnace. A. Schroeder. No. 1,041,889; Oct. 22; Gaz. vol. 183; p. 852.
Furnace. C. R. Waid. No. 1,042,059; Oct. 22; Gaz. vol. 183; p. 907.
Furnace. H. Moor. No. 1,044,559; Nov. 19; Gaz. vol. 184; p. 587.
Furnace. A. W. Ekstrom. No. 1,044,763; Nov. 19; Gaz. vol. 184; p. 661.
Furnace. J. C. Teller. No. 1,044,946; Nov. 19; Gaz. vol. 184; p. 723.
Furnace. P. F. Dybro. No. 1,046,745; Dec. 10; Gaz. vol. 185; p. 370.
Furnace and stove structure. W. F. Brunswick. No. 1,024,826; Apr. 30; Sp. p. 6649; Gaz. vol. 177; p. 1170.
Furnace arch-plate. J. R. Fortune and F. B. Bigelow. No. 1,019,035; Mar. 5; Sp. p. 47; Gaz. vol. 176; p. 11.

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Furnace attachment. J. Flood. No. 1,033,571; July 23; Gaz. vol. 180; p. 1053.
Furnace attachment, Melting-. R. T. Johnston. No. 1,036,853; Aug. 27; Gaz. vol. 181; p. 935.
Furnace bridge-wall. R. Wager. No. 1,024,301; Apr. 23; Sp. p. 5441; Gaz. vol. 177; p. 954.
Furnace-charging apparatus. D. Baker. No. 1,016,539; Feb. 6; Sp. p. 716; Gaz. vol. 175; p. 106.
Furnace-charging apparatus. D. Broderick. No. 1,043,395; Nov. 5; Gaz. vol. 184; p. 125.
Furnace-charging apparatus, Blast-. J. Kennedy. No. 1,021,534; Mar. 26; Sp. p. 5395; Gaz. vol. 176; p. 971.
Furnace-charging box. J. Allison and G. A. Hassel. No. 1,044,842; Nov. 19; Gaz. vol. 184; p. 687.
Furnace-charging device. J. W. Dougherty. No. 1,024,623; Apr. 30; Sp. p. 6224; Gaz. vol. 177; p. 1097.
Furnace-charging mechanism. J. B. Ladd. No. 1,036,272; Aug. 20; Gaz. vol. 181; p. 706.
Furnace construction. J. B. Ladd and D. Baker. No. 1,027,738; May 28; Sp. p. 5780; Gaz. vol. 178; p. 1007.
Furnace construction, Blast-. J. Scott. No. 1,036,350; Aug. 20; Gaz. vol. 181; p. 732.
Furnace-cooling. F. C. Roberts. No. 1,030,792; June 25; Sp. p. 6210; Gaz. vol. 179; p. 1050.
Furnace-cooling device, Blast-. F. D. Carney. No. 1,042,767; Oct. 29; Gaz. vol. 183; p. 1178.
Furnace-cover. C. S. Robinson. No. 1,029,319; June 11; Sp. p. 2713; Gaz. vol. 179; p. 459.
Furnace-door. L. L. Knox. No. 1,037,778; Sept. 3; Gaz. vol. 182; p. 201.
Furnace-door arch. C. E. Brown. No. 1,044,130; Nov. 12; Gaz. vol. 184; p. 410.
Furnace door, Boiler-. A. Vincent and C. Muir. No. 1,044,830; Nov. 19; Gaz. vol. 184; p. 683.
Furnace-door cooker attachment. C. F. Hoffman. No. 1,035,587; Aug. 13; Gaz. vol. 181; p. 432.
Furnace-door mouthpiece. F. W. Brooks. No. 1,020,882; Mar. 19; Sp. p. 3993; Gaz. vol. 176; p. 696.
Furnace-door-opening device. J. Wheeler. No. 1,041,212; Oct. 15; Gaz. vol. 183; p. 586.
Furnace-door-operating device. C. F. Kahler. No. 1,046,074; Dec. 3; Gaz. vol. 185; p. 94.
Furnace-door-operating mechanism. S. D. Rosenfelt and H. Helmholtz. No. 1,031,379; July 2; Gaz. vol. 180; p. 185.
Furnace-door-operating mechanism. R. R. Hillman. No. 1,032,004; July 9; Gaz. vol. 180; p. 442.
Furnace-feeding apparatus. F. H. Treat. No. 1,014,789; Jan. 16; Sp. p. 3786; Gaz. vol. 174; p. 643.
Furnace fire-bar. W. G. Crosthwaite. No. 1,025,128; May 7; Sp. p. 35; Gaz. vol. 178; p. 7.
Furnace for burning solid fuel. A. Vincent and C. Muir. No. 1,044,711; Nov. 19; Gaz. vol. 184; p. 642.
Furnace for making ultramarine blues. F. Béllet. No. 1,014,689; Jan. 16; Sp. p. 3569; Gaz. vol. 174; p. 610.
Furnace for obtaining metal from ore or matte. J. J. Anderson. No. 1,020,531; Mar. 19; Sp. p. 3231; Gaz. vol. 176; p. 578.
Furnace for sintering metallic filaments for electric incandescent lamps. C. Trenzen and E. Haagn. No. 1,028,832; June 4; Sp. p. 1641; Gaz. vol. 179; p. 256.
Furnace-front. J. H. Hume. No. 1,019,155; Mar. 5; Sp. p. 330; Gaz. vol. 176; p. 52.
Furnace-front. J. H. Hume. No. 1,048,970; Dec. 31; Gaz. vol. 185; p. 1233.
Furnace-grate. M. E. Hansell. No. 1,045,704; Nov. 26; Gaz. vol. 184; p. 1018.
Furnace hearth, Pair-heating-. T. V. Allis. No. 1,034,858; Aug. 6; Gaz. vol. 181; p. 155.
Furnace hoist, Crucible-. L. H. J. De Bats. No. 1,013,377; Jan. 2; Sp. p. 636; Gaz. vol. 174; p. 101.
Furnace ignition-arch. W. M. Duncan. No. 1,027,326; May 21; Sp. p. 4944; Gaz. vol. 178; p. 832.
Furnace oil-burning provision, Boiler-. L. D. Lovekin. No. 1,039,768; Oct. 1; Gaz. vol. 183; p. 34.
Furnace regulating and reversing apparatus, Regenerating-gas-. H. Kopper. No. 1,029,696; June 18; Sp. p. 3529; Gaz. vol. 179; p. 625.
Furnace regulating and reversing apparatus, Regenerating-gas-. H. Kopper. No. 1,035,266; Aug. 20; Gaz. vol. 181; p. 704.
Furnace-regulator. H. F. Quickel. No. 1,045,610; Nov. 26; Gaz. vol. 184; p. 985.
Furnace-regulator. J. M. Beech. No. 1,048,129; Dec. 24; Gaz. vol. 185; p. 907.
Furnace residues, Means for handling smelting-. E. Dor-Delattre. No. 1,031,918; July 9; Gaz. vol. 180; p. 413.
Furnace-roof. P. H. Sugrue. No. 1,032,960; July 16; Gaz. vol. 180; p. 808.
Furnace safety device, Blast-. S. B. Shutts and W. McHugh. No. 1,013,961; Jan. 9; Sp. p. 1956; Gaz. vol. 174; p. 331.
Furnace skips or elevators, Automatic safety device for. P. Hinkel. No. 1,043,834; Nov. 12; Gaz. vol. 184; p. 308.
Furnace slag-pocket. W. W. Smith. No. 1,042,046; Oct. 22; Gaz. vol. 183; p. 903.
Furnace steam and air feeding device. G. A. Gustafson. No. 1,029,680; June 18; Sp. p. 3493; Gaz. vol. 179; p. 619.
Furnace-top. F. C. Roberts. No. 1,033,034; July 16; Gaz. vol. 180; p. 834.
Furnace-top. F. C. Roberts. No. 1,033,035; July 16; Gaz. vol. 180; p. 835.
Furnace top, Blast-. G. H. Smith. No. 1,031,478; July 2; Gaz. vol. 180; p. 220.
Furnaces and the like, Apparatus for charging open-hearth. J. Smith. No. 1,028,620; June 4; Sp. p. 1207; Gaz. vol. 179; p. 185.
Furnaces and the like, Mechanical charging mechanism for smelting-. I. L. Briggs. No. 1,022,654; Apr. 9; Sp. p. 1908; Gaz. vol. 177; p. 333.
Furnaces and the like, Nozzle for calcining-. G. Bierhals. No. 1,046,726; Dec. 10; Gaz. vol. 185; p. 364.
Furnaces, &c., Apparatus for charging open-hearth. J. Smith. No. 1,028,619; June 4; Sp. p. 1205; Gaz. vol. 179; p. 184.
Furnaces, Apparatus for consuming smoke in boiler-. V. G. Smith. No. 1,029,952; June 18; Sp. p. 4111; Gaz. vol. 179; p. 713.
Furnaces, Apparatus for controlling the admission of steam to the auxiliary blast of boiler-. G. De Grahl. No. 1,039,273; Sept. 24; Gaz. vol. 182; p. 797.
Furnaces, Apparatus for feeding fuel to. A. Heberer and H. A. Hyne. No. 1,022,550; Apr. 9; Sp. p. 1678; Gaz. vol. 177; p. 297.
Furnaces, Automatic draft-regulator for steam-boiler. F. W. Harrington. No. 1,036,616; Aug. 27; Gaz. vol. 181; p. 856.
Furnaces, Brick for metallurgic. W. N. McKnight and R. H. Youngman. No. 1,016,350; Feb. 6; Sp. p. 258; Gaz. vol. 175; p. 40.
Furnaces, Charging. F. C. Roberts. No. 1,033,036; July 16; Gaz. vol. 180; p. 835.
Furnaces, Cleaning device for water-cooled-wall. G. J. Rennie. No. 1,035,050; Aug. 6; Gaz. vol. 181; p. 216.
Furnaces, converters, &c., Apparatus for supplying air to blast-. R. H. Sweetser. No. 1,027,781; May 28; Sp. p. 5871; Gaz. vol. 178; p. 1021.
Furnaces, Device for promoting combustion in. E. Honess. No. 1,028,879; June 11; Sp. p. 1755; Gaz. vol. 179; p. 307.
Furnaces, Duplex spout for. G. K. Hooper. No. 1,016,013; Jan. 30; Sp. p. 6420; Gaz. vol. 174; p. 1117.
Furnaces, Fire-brick wall or lining for blast and other. A. N. H. Strale. No. 1,021,851; Apr. 2; Sp. p. 211; Gaz. vol. 177; p. 35.
Furnaces from injurious gases, Protecting tunnel-. A. H. Cowles. No. 1,040,892; Oct. 8; Gaz. vol. 183; p. 444.
Furnaces, Fuel-feeding system for steam-boiler. T. T. Bathurst. No. 1,038,069; Sept. 10; Gaz. vol. 182; p. 332.
Furnaces, Fume-arrester for regenerative matting-. W. F. Taylor. No. 1,040,460; Oct. 8; Gaz. vol. 183; p. 295.
Furnaces, Heater for zinc-reducing. C. Roitzheim. No. 1,038,205; Sept. 10; Gaz. vol. 182; p. 376.
Furnaces, Increasing the temperature of combustion in gas-fired. H. L. Doherty. No. 1,024,678; Apr. 30; Sp. p. 6338; Gaz. vol. 177; p. 1117.
Furnaces, Machine for cleaning muffles of zinc-. O. Saeger. No. 1,014,333; Jan. 9; Sp. p. 2765; Gaz. vol. 174; p. 460.
Furnaces, Means for controlling the air-supply to locomotive-boiler. J. H. Hume. No. 1,028,881; June 11; Sp. p. 1759; Gaz. vol. 179; p. 308.
Furnaces, Means for feeding air to. W. W. Evans. No. 1,041,761; Oct. 22; Gaz. vol. 183; p. 805.
Furnaces, Means for removing slag from hearth-. K. Stobrawa. No. 1,025,027; Apr. 30; Sp. p. 7050; Gaz. vol. 177; p. 1239.
Furnaces, Means for replacing twyers in air-blast. A. D. Leduc. No. 1,025,531; May 7; Sp. p. 953; Gaz. vol. 178; p. 148.
Furnaces, Operating metallurgical. G. H. Benjamin. No. 1,033,777; July 30; Gaz. vol. 180; p. 1146.
Furnaces or gas-generators, Charging device for. W. Hoeller. No. 1,037,480; Sept. 3; Gaz. vol. 182; p. 104.
Furnaces or kilns, Apparatus for heating. W. R. Dunn. No. 1,013,379; Jan. 2; Sp. p. 643; Gaz. vol. 174; p. 102.
Furnaces, Pot-filling apparatus for glass-. P. Hoffmann. No. 1,029,444; June 11; Sp. p. 2994; Gaz. vol. 179; p. 502.
Furnaces, Reflecting-partition for. H. A. Poppenhusen and J. Harrington. No. 1,014,903; Jan. 16; Sp. p. 4044; Gaz. vol. 174; p. 684.
Furnaces, Securing rabble-arms of roasting-. U. Wedge. No. 1,037,091; Aug. 27; Gaz. vol. 181; p. 1013.
Furnaces, Water-heating attachment for. H. Lawrie. No. 1,026,753; May 21; Sp. p. 3649; Gaz. vol. 178; p. 635.
Furniture, Adjustable. J. A. Kirby. No. 1,044,057; Nov. 12; Gaz. vol. 184; p. 386.
Furniture appliance. J. H. Tudor. No. 1,019,202; Mar. 5; Sp. p. 434; Gaz. vol. 176; p. 69.
Furniture-clamp. H. J. Fuhs. No. 1,048,519; Dec. 31; Gaz. vol. 185; p. 1077.
Furniture construction. O. Varslow. No. 1,017,712; Feb. 20; Sp. p. 3218; Gaz. vol. 175; p. 579.
Furniture construction. A. H. Schaffert. No. 1,029,467; June 11; Sp. p. 3042; Gaz. vol. 179; p. 509.
Furniture, Contact-piece for. B. F. Mayo. No. 1,030,596; June 25; Sp. p. 5646; Gaz. vol. 179; p. 978.

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Furniture, Convertible article of. M. Switzer. No. 1,017,342; Feb. 13; Sp. p. 2458; Gaz. vol. 175; p. 418.
Furniture, Iron. C. R. Murray. No. 1,016,355; Feb. 6; Sp. p. 264; Gaz. vol. 175; p. 41.
Furniture-joint. C. H. Lenhart. No. 1,035,611; Aug. 13; Gaz. vol. 181; p. 440.
Furniture, Knockdown. F. L. Vordemfelde. No. 1,025,103; Apr. 30; Sp. p. 7209; Gaz. vol. 177; p. 1263.
Furniture-panels, Making bulge. J. Herzog. No. 1,026,395; May 14; Sp. p. 2882; Gaz. vol. 178; p. 478.
Furniture, Post-office. M. S. Field. No. 1,035,869; Aug. 20; Gaz. vol. 181; p. 564.
Furniture, School. L. A. Churgay. No. 1,042,397; Oct. 29; Gaz. vol. 183; p. 1046.
Furniture, School. L. A. Churgay. No. 1,044,745; Nov. 19; Gaz. vol. 184; p. 653.
Furniture-spring. M. Hering. No. 1,033,101; July 23; Gaz. vol. 180; p. 896.
Furniture, Upholstered. E. Peterson. No. 1,024,744; Apr. 30; Sp. p. 6473; Gaz. vol. 177; p. 1114.
Furniture, Yieldable support for. J. Markus. No. 1,022,858; Apr. 9; Sp. p. 2363; Gaz. vol. 177; p. 404.
Furrow-opener attachment. O. F. Orndoff. No. 1,046,848; Dec. 10; Gaz. vol. 185; p. 405.
Furrow-opener, Disk. O. G. Rieske. No. 1,017,109; Feb. 13; Sp. p. 1965; Gaz. vol. 175; p. 337.
Furrow-opener, Disk. S. H. Jones and E. Christman. No. 1,036,252; Aug. 20; Gaz. vol. 181; p. 698.
Furrow-opener scraper. T. Brennan, Jr. No. 1,022,352; Apr. 2; Sp. p. 1250; Gaz. vol. 177; p. 201.
Furrow packer, Listed-. A. Slomski. No. 1,040,041; Oct. 1; Gaz. vol. 183; p. 124.
Fuse. F. P. Poole and P. A. Brendel. No. 1,022,329; Apr. 2; Sp. p. 1209; Gaz. vol. 177; p. 193.
Fuse. H. E. Ellsworth. No. 1,023,142; Apr. 16; Sp. p. 3001; Gaz. vol. 177; p. 540.
Fuse. G. R. Willett. No. 1,028,647; June 4; Sp. p. 1256; Gaz. vol. 179; p. 193.
Fuse. J. H. Alspach. No. 1,045,659; Nov. 26; Gaz. vol. 184; p. 1003.
Fuse-adjusting machine. W. Schwartz. No. 1,029,146; June 11; Sp. p. 2337; Gaz. vol. 179; p. 398.
Fuse and adjusting-key therefor. U. Wilck. No. 1,028,924; June 11; Sp. p. 1869; Gaz. vol. 179; p. 323.
Fuse and cap, Blasting-. W. E. Ingram. No. 1,025,065; Apr. 30; Sp. p. 7113; Gaz. vol. 177; p. 1250.
Fuse-attachment plug. C. Carson. No. 1,043,802; Nov. 12; Gaz. vol. 184; p. 297.
Fuse-block. R. C. Cole. No. 1,032,188; July 9; Gaz. vol. 180; p. 503.
Fuse-block clip. R. C. Cole. No. 1,025,246; May 7; Sp. p. 300; Gaz. vol. 178; p. 49.
Fuse-block contact-post. R. C. Cole. No. 1,014,950; Jan. 16; Sp. p. 4163; Gaz. vol. 174; p. 700.
Fuse-box, Rotary-magazine. L. D. Epperson. No. 1,023,929; Apr. 23; Sp. p. 4633; Gaz. vol. 177; p. 824.
Fuse carrier, Open-link-. R. C. Cole. No. 1,040,151; Oct. 1; Gaz. vol. 183; p. 161.
Fuse-case. T. E. Murray. No. 1,021,549; Mar. 26; Sp. p. 5423; Gaz. vol. 176; p. 976.
Fuse-case. T. E. Murray. No. 1,028,255; June 4; Sp. p. 424; Gaz. vol. 179; p. 61.
Fuse-changer. R. C. Grout. No. 1,023,077; Apr. 9; Sp. p. 2814; Gaz. vol. 177; p. 479.
Fuse, Combination time and percussion. J. Gronek. No 1,022,075; Apr. 2; Sp. p. 685; Gaz. vol. 177; p. 109.
Fuse contact-clip and terminal holder, Combined. R. C. Cole. No. 1,025,245; May 7; Sp. p. 299; Gaz. vol. 178; p. 49.
Fuse-cutting machine. A. H. Boyd. No. 1,014,862; Jan. 16; Sp. p. 3961; Gaz. vol. 174; p. 670.
Fuse device. E. O. Schweitzer and A. Herz. No. 1,033,123; July 23; Gaz. vol. 180; p. 903.
Fuse, Electric. G. W. Christians. No. 1,028,328; June 4; Sp. p. 574; Gaz. vol. 179; p. 86.
Fuse, Electric. T. E. Murray. No. 1,036,510; Aug. 20; Gaz. vol. 181; p. 788.
Fuse, Electric. T. E. Murray, Jr. No. 1,048,859; Dec. 31; Gaz. vol. 185; p. 1195.
Fuse, Electric cartridge-. F. W. A. Schneider. No. 1,016,646; Feb. 6; Sp. p. 951; Gaz. vol. 175; p. 143.
Fuse, Electric safety-. C. N. Sachs. No. 1,016,524; Feb. 6; Sp. p. 676; Gaz. vol. 175; p. 101.
Fuse, Electrical. S. F. Estell. No. 1,022,834; Apr. 9; Sp. p. 2319; Gaz. vol. 177; p. 396.
Fuse for artillery-projectiles, Combination-. K. Voller. No. 1,047,862; Dec. 17; Gaz. vol. 185; p. 790.
Fuse for explosive projectiles, Percussion-. E. Schneider. No. 1,016,368; Feb. 6; Sp. p. 287; Gaz. vol. 175; p. 45.
Fuse for high-explosive shells. R. Sohlman, H. Nordenfelt, and H. Morén. No. 1,016,373; Feb. 6; Sp. p. 300; Gaz. vol. 175; p. 47.
Fuse for projectiles. H. B. Strange. No. 1,048,910; Dec. 31; Gaz. vol. 185; p. 1212.
Fuse for projectiles, Burning. K. Wieser. No. 1,039,870; Oct. 1; Gaz. vol. 183; p. 68.
Fuse for projectiles, mines, torpedoes, &c., Pressure-. E. Sokolowski. No. 1,042,830; Oct. 29; Gaz. vol. 183; p. 1200.
Fuse for projectiles, Percussion-. K. Voller. No. 1,046,349; Dec. 3; Gaz. vol. 185; p. 192.
Fuse formed with terminals or contacts of knife-blade type, Detachably mounting a. B. D. Horton. No. 1,040,331; Oct. 8; Gaz. vol. 183; p. 252.
Fuse holder, Electrical-. H. W. Young. No. 1,046,705; Dec. 10; Gaz. vol. 185; p. 357.
Fuse, Inclosed. R. C. Cole. No. 1,025,247; May 7; Sp. p. 302; Gaz. vol. 178; p. 50.
Fuse, Inclosed. G. Wright. No. 1,037,397; Sept. 3; Gaz. vol. 182; p. 73.
Fuse, Inclosed. F. W. Harris. No. 1,042,434; Oct. 29; Gaz. vol. 183; p. 1061.
Fuse indicator, Inclosed-. L. E. Barringer and G. Wright. No. 1,014,741; Jan. 16; Sp. p. 3679; Gaz. vol. 174; p. 628.
Fuse indicator, Inclosed-. R. C. Cole. No. 1,040,150; Oct. 1; Gaz. vol. 183; p. 161.
Fuse, Mechanical time-. K. Wieser. No. 1,029,036; June 11; Sp. p. 2099; Gaz. vol. 179; p. 362.
Fuse, Percussion-. E. Schneider. No. 1,014,183; Jan. 9; Sp. p. 2419; Gaz. vol. 174; p. 406.
Fuse, Percussion-. E. Gathmann. (Reissue.) No. 13,439; July 9; Gaz. vol. 180; p. 567.
Fuse-plug. P. A. Brendel. No. 1,025,857; May 7; Sp. p. 1631; Gaz. vol. 178; p. 258.
Fuse-plug. D. E. Bown. No. 1,042,388; Oct. 29; Gaz. vol. 183; p. 1043.
Fuse-resetter, Automatic. J. B. Elkin. No. 1,018,239; Feb. 20; Sp. p. 4450; Gaz. vol. 175; p. 764.
Fuse, Safety-. I. E. Barricklow. No. 1,020,249; Mar. 12; Sp. p. 2648; Gaz. vol. 176; p. 449.
Fuse, Safety-. H. A. Yates. No. 1,028,173; June 4; Sp. p. 266; Gaz. vol. 179; p. 33.
Fuse, Snap-switch multiple. N. E. Lemmon. No. 1,036,657; Aug. 27; Gaz. vol. 181; p. 870.
Fuse-switch. A. V. A. McHarg. No. 1,048,847; Dec. 31; Gaz. vol. 185; p. 1191.
Fuses, Adjustable delay device for ordnance-. E. O. L. Vogt. No. 1,032,253; July 9; Gaz. vol. 180; p. 526.
Fuses for shells or the like, Automatically-operating key for setting the timing-rings of. K. Völler. No. 1,037,811; Sept. 3; Gaz. vol. 182; p. 211.
Fuses, Jacket for safety-. C. N. Sachs. No. 1,016,443; Feb. 6; Sp. p. 476; Gaz. vol. 175; p. 73.
Fused disconnecting-switch. R. C. Cole. No. 1,039,257; Sept. 24; Gaz. vol. 182; p. 791.
Fusee. G. B. Jackson. No. 1,045,033; Nov. 19; Gaz. vol. 184; p. 753.
Fusee, Railway time-burning signal-. L. S. Ross. No. 1,025,883; May 7; Sp. p. 1735; Gaz. vol. 178; p. 267.
Fusee, Time-burning railway signal-. L. S. Ross. No. 1,025,205; May 7; Sp. p. 210; Gaz. vol. 178; p. 36.
Fusees, Compound for railway time signal-. I. Niditch. No. 1,029,884; June 18; Sp. p. 3975; Gaz. vol. 179; p. 691.
Fusees, Compound for time-burning railway signal-. L. S. Ross. No. 1,019,190; Mar. 5; Sp. p. 406; Gaz. vol. 176; p. 64.
Fusible link. J. R. Hamilton. No. 1,024,725; Apr. 30; Sp. p. 6434; Gaz. vol. 177; p. 1134.
Fusible-link device. W. Poppendieck. No. 1,021,329; Mar. 26; Sp. p. 4924; Gaz. vol. 176; p. 900.
Gabions for defense-works in rivers, torrents, and canals, for retaining and supporting walls in mountainous country, &c., System of construction of. A. C. Tirapani. No. 1,047,464; Dec. 17; Gaz. vol. 185; p. 649.
Gaff or grappling-hook. W. N. M. Anderson. No. 1,031,903; July 9; Gaz. vol. 180; p. 408.
Gage: *See* Air-gage; Altitude-gage; Boiler-gage; Carpenter's gage; Contour-gage; Cutter-head gage; Distance-gage; Edge-gage; Fastener-inserting-machine work-gage; Flame-gage; Fluid-gage; Grinding-gage; Hair-cutting gage; Hinge-gage; Indicator-gage; Jeweler's gage; Lathe-centering gage; Linear-dimension gage; Liquid-gage; Liquid safety-gage; Lock and mortise gage; Lumber-gage; Marking-gage; Measuring-gage; Micrometer-gage; Miter-gage; Mitering-gage; Mortise-gage; Pencil marking-gage; Pressure-gage; Printing-plate-alining gage; Ring-gage; Roof-gage; Saw-gage; Saw-filing gage; Saw-table gage; Scribing-work gage; Shingling-gage; Siding and shingling gage; Speed-gage; Stair-builder's gage; Steam-gage; Surface-gage; Tank-gage; Tenon-machine gage; Thread-gage; Track-gage; Truing-up gage; Water-gage; Work-gage.
Gage. A. D. Owen. No. 1,017,994; Feb. 20; Sp. p. 3926; Gaz. vol. 175; p. 679.
Gage. E. McCoy. No. 1,021,255; Mar. 26; Sp. p. 4782; Gaz. vol. 176; p. 873.
Gage. H. Oenning. No. 1,023,166; Apr. 16; Sp. p. 3057; Gaz. vol. 177; p. 548.
Gage. L. A. Boyce. No. 1,031,517; July 2; Gaz. vol. 180; p. 232.
Gage. W. H. Gelbaugh. No. 1,031,995; July 9; Gaz. vol. 180; p. 438.
Gage. L. A. Casgrain. No. 1,040,273; Oct. 8; Gaz. vol. 183; p. 231.
Gage. W. F. Shore. No. 1,042,721; Oct. 29; Gaz. vol. 183; p. 1162.
Gage. J. A. L. Snyder. No. 1,044,588; Nov. 19; Gaz. vol. 184; p. 599.

Alphabetical list of inventions—Continued.

Gage. M. W. Miller. No. 1,045,871; Dec. 3; Gaz. vol. 185; p. 26.
Gage. H. D. Flegel. No. 1,046,761; Dec. 10; Gaz. vol. 185; p. 377.
Gage. C. A. Hirth. No. 1,048,073; Dec. 24; Gaz. vol. 185; p. 887.
Gage and the like case. F. Schubert. No. 1,040,780; Oct. 8; Gaz. vol. 183; p. 408.
Gage-bar. A. H. Johnson and L. W. Williams. No. 1,018,245; Feb. 20; Sp. p. 4460; Gaz. vol. 175; p. 766.
Gage for determining points on structural I-beams. W. Hernlund. No. 1,046,187; Dec. 3; Gaz. vol. 185; p. 133.
Gage-glass connection. J. G. Talmage. No. 1,046,234; Dec. 3; Gaz. vol. 185; p. 152.
Gage-glass for boilers and the like. T. Maas. No. 1,039,559; Sept. 24; Gaz. vol. 182; p. 896.
Gage holder, Steam-. G. E. Bailie. No. 1,036,539; Aug. 27; Gaz. vol. 181; p. 830.
Gage-inspecting device. W. F. Warden. No. 1,015,223; Jan. 16; Sp. p. 4684; Gaz. vol. 174; p. 791.
Gaging and assorting mechanism. J. F. Flaherty. No. 1,034,097; July 30; Gaz. vol. 180; p. 1260.
Gaging-machine. F. I. Sieling. No. 1,041,892; Oct. 22; Gaz. vol. 183; p. 853.
Gain. B. R. Shover. No. 1,043,260; Nov. 5; Gaz. vol. 184; p. 75.
Gaiter and overshoe, Combined. S. Allsopp. No. 1,032,643; July 16; Gaz. vol. 180; p. 703.
Galley-proofing press, Hand. H. H. Jenkins. No. 1,019,652; Mar. 5; Sp. p. 1422; Gaz. vol. 176; p. 219.
Gallocyanin compounds and making them. H. Mansfeld. No. 1,028,045; May 28; Sp. p. 6488; Gaz. vol. 178; p. 1110.
Galvanic battery. E. C. Smith and E. L. Marshall. No. 1,017,064; Feb. 13; Sp. p. 1853; Gaz. vol. 175; p. 321.
Galvanic battery. A. Heil. No. 1,028,354; June 4; Sp. p. 641; Gaz. vol. 179; p. 96.
Galvanic battery. E. G. Dodge. No. 1,048,505; Dec. 31; Gaz. vol. 185; p. 1072.
Galvanic cell, Two-fluid. W. J. Hesseln. No. 1,032,830; July 16; Gaz. vol. 180; p. 768.
Galvanic metal reproductions of articles of the plastic arts, Manufacture of. C. Bensinger. No. 1,023,612; Apr. 16; Sp. p. 3953; Gaz. vol. 177; p. 694.
Gambrel. F. A. Buller. No. 1,022,298; Apr. 2; Sp. p. 1140; Gaz. vol. 177; p. 183.
Gambrel. J. and H. H. Hartman. No. 1,023,148; Apr. 16; Sp. p. 3016; Gaz. vol. 177; p. 542.
Gambrel. J. L. Jarvis. No. 1,025,806; May 7; Sp. p. 1528; Gaz. vol. 178; p. 241.
Gambrel. F. H. Pierce. No. 1,029,314; June 11; Sp. p. 2697; Gaz. vol. 179; p. 457.
Gambrel. P. Roskopf. No. 1,030,683; June 25; Sp. p. 5912; Gaz. vol. 179; p. 1010.
Gambrel. J. F. Wilson. No. 1,033,223; July 23; Gaz. vol. 180; p. 939.
Gambrel. E. Lace. No. 1,044,060; Nov. 12; Gaz. vol. 184; p. 387.
Gambrel-stick. F. C. Petersen. No. 1,020,843; Mar. 19; Sp. p. 3914; Gaz. vol. 176; p. 684.
Game. G. H. Hewitt, Jr. No. 1,013,161; Jan. 2; Sp. p. 146; Gaz. vol. 174; p. 25.
Game. J. W. Hanley. No. 1,016,142; Jan. 30; Sp. p. 6688; Gaz. vol. 174; p. 1162.
Game. N. C. Shatzer. No. 1,016,583; Feb. 6; Sp. p. 814; Gaz. vol. 175; p. 121.
Game. G. J. Jaccard. No. 1,022,847; Apr. 9; Sp. p. 2345; Gaz. vol. 177; p. 401.
Game. W. C. O'Donnell. No. 1,024,354; Apr. 23; Sp. p. 5534; Gaz. vol. 177; p. 970.
Game. R. Kaerschke. No. 1,028,467; June 4; Sp. p. 891; Gaz. vol. 179; p. 134.
Game. E. P. Jessop. No. 1,029,448; June 11; Sp. p. 3007; Gaz. vol. 179; p. 503.
Game. S. E. Wharton. No. 1,030,554; June 25; Sp. p. 5490; Gaz. vol. 179; p. 963.
Game. F. Langley and G. B. Laundrie. No. 1,033,422; July 23; Gaz. vol. 180; p. 1004.
Game. A. H. Brown. No. 1,036,438; Aug. 20; Gaz. vol. 181; p. 762.
Game. J. Eliscu. No. 1,036,591; Aug. 27; Gaz. vol. 181; p. 848.
Game. W. G. Doerr. No. 1,037,877; Sept. 10; Gaz. vol. 182; p. 267.
Game. J. A. May. No. 1,041,834; Oct. 22; Gaz. vol. 183; p. 832.
Game apparatus. L. M. White and R. J. Sackett. No. 1,013,709; Jan. 2; Sp. p. 1369; Gaz. vol. 174; p. 214.
Game apparatus. A. Zimdars. No. 1,014,555; Jan. 9; Sp. p. 3196; Gaz. vol. 174; p. 532.
Game apparatus. P. L. Munker. No. 1,016,084; Jan. 30; Sp. p. 6585; Gaz. vol. 174; p. 1143.
Game apparatus. V. M. Vacek. No. 1,016,187; Jan. 30; Sp. p. 6763; Gaz. vol. 174; p. 1176.
Game apparatus. A. Reibstein. No. 1,018,343; Feb. 20; Sp. p. 4642; Gaz. vol. 175; p. 798.
Game apparatus. J. W. Culp. No. 1,018,409; Feb. 27; Sp. p. 4821; Gaz. vol. 175; p. 853.
Game apparatus. J. A. Marikle. No. 1,018,840; Feb. 27; Sp. p. 5792; Gaz. vol. 175; p. 1000.
Game apparatus. D. J. Bebon. No. 1,018,956; Feb. 27; Sp. p. 6027; Gaz. vol. 175; p. 1039.
Game apparatus. H. J. Miller. No. 1,020,215; Mar. 12; Sp. p. 2582; Gaz. vol. 176; p. 438.
Game apparatus. C. Schutz. No. 1,020,315; Mar. 12; Sp. p. 2773; Gaz. vol. 176; p. 470.
Game apparatus. C. Mutter. No. 1,021,788; Apr. 2; Sp. p. 67; Gaz. vol. 177; p. 14.
Game apparatus. J. A. Sloan. No. 1,022,339; Apr. 2; Sp. p. 1228; Gaz. vol. 177; p. 196.
Game apparatus. H. V. Robinson. No. 1,022,876; Apr. 9; Sp. p. 2396; Gaz. vol. 177; p. 410.
Game apparatus. E. M. Frank. No. 1,024,194; Apr. 23; Sp. p. 5228; Gaz. vol. 177; p. 916.
Game apparatus. C. L. Wood. No. 1,025,226; May 7; Sp. p. 258; Gaz. vol. 178; p. 43.
Game apparatus. A. B. Hill. No. 1,025,465; May 7; Sp. p. 800; Gaz. vol. 178; p. 125.
Game apparatus. C. Watts. No. 1,026,188; May 14; Sp. p. 2419; Gaz. vol. 178; p. 407.
Game apparatus. V. W. Hall. No. 1,027,539; May 28; Sp. p. 5379; Gaz. vol. 178; p. 942.
Game apparatus. J. D. Hirsch. No. 1,028,724; June 4; Sp. p. 1408; Gaz. vol. 179; p. 219.
Game apparatus. S. L. McCurdy. No. 1,030,108; June 18; Sp. p. 4443; Gaz. vol. 179; p. 767.
Game apparatus. B. P. Rogers. No. 1,030,330; June 25; Sp. p. 4955; Gaz. vol. 179; p. 883.
Game apparatus. H. K. Kirch and O. E. Clauss. No. 1,030,664; June 25; Sp. p. 5872; Gaz. vol. 179; p. 1004.
Game apparatus. S. M. Witt. No. 1,031,157; July 2; Gaz. vol. 180; p. 109.
Game apparatus. F. X. Kennedy. No. 1,031,273; July 2; Gaz. vol. 180; p. 150.
Game apparatus. L. O. Sutton. No. 1,031,395; July 2; Gaz. vol. 180; p. 191.
Game apparatus. L. B. Taylor. No. 1,031,488; July 2; Gaz. vol. 180; p. 223.
Game apparatus. F. Johnson. No. 1,032,336; July 9; Gaz. vol. 180; p. 554.
Game apparatus. B. O. Brinson. No. 1,033,227; July 23; Gaz. vol. 180; p. 940.
Game apparatus. R. W. Mansfield. No. 1,034,633; Aug. 6; Gaz. vol. 181; p. 76.
Game apparatus. P. Krüger. No. 1,034,716; Aug. 6; Gaz. vol. 181; p. 105.
Game apparatus. W. L. Meredith. No. 1,035,029; Aug. 6; Gaz. vol. 181; p. 208.
Game apparatus. B. Albert. No. 1,038,062; Sept. 10; Gaz. vol. 182; p. 331.
Game apparatus. B. T. B. Hyde. No. 1,038,756; Sept. 17; Gaz. vol. 182; p. 603.
Game apparatus. J. C. Hutton. No. 1,039,133; Sept. 24; Gaz. vol. 182; p. 746.
Game apparatus. G. A. Droste. No. 1,039,500; Sept. 24; Gaz. vol. 182; p. 875.
Game apparatus. G. W. Wallace. No. 1,040,064; Oct. 1; Gaz. vol. 183; p. 131.
Game apparatus. E. G. Carter. No. 1,040,144; Oct. 1; Gaz. vol. 183; p. 159.
Game apparatus. I. A. Deline. No. 1,040,521; Oct. 8; Gaz. vol. 183; p. 316.
Game apparatus. W. C. Martineau. No. 1,040,717; Oct. 8; Gaz. vol. 183; p. 389.
Game apparatus. J. H. Fouts. No. 1,044,039; Nov. 12; Gaz. vol. 184; p. 380.
Game apparatus. H. W. Mattoni. No. 1,044,679; Nov. 19; Gaz. vol. 184; p. 631.
Game apparatus. J. W. Warren. No. 1,046,125; Dec. 3; Gaz. vol. 185; p. 112.
Game apparatus. H. G. Robinson. No. 1,046,222; Dec. 3; Gaz. vol. 185; p. 147.
Game apparatus. E. Krancher. No. 1,047,657; Dec. 17; Gaz. vol. 185; p. 719.
Game apparatus. A. Reibstein. No. 1,048,582; Dec. 31; Gaz. vol. 185; p. 1097.
Game apparatus, Amusement. S. Hummerson. No. 1,047,637; Dec. 17; Gaz. vol. 185; p. 711.
Game apparatus, Base-ball-. M. M. Johnson. No. 1,033,249; July 23; Gaz. vol. 180; p. 948.
Game apparatus, Educational. R. W. Mansfield. No. 1,030,414; June 25; Sp. p. 5126; Gaz. vol. 179; p. 914.
Game apparatus, Naval-war-. J. H. Hammond, Jr. No. 1,023,375; Apr. 16; Sp. p. 3464; Gaz. vol. 177; p. 618.
Game apparatus or puzzle. S. Miller. No. 1,021,546; Mar. 26; Sp. p. 5417; Gaz. vol. 176; p. 975.
Game apparatus, Puzzle. E. G. Johnston. No. 1,029,016; June 11; Sp. p. 2068; Gaz. vol. 179; p. 355.
Game-board. F. A. Lehr. No. 1,023,742; Apr. 16; Sp. p. 4173; Gaz. vol. 177; p. 733.
Game-board. W. J. Archer. No. 1,025,940; May 7; Sp. p. 1856; Gaz. vol. 178; p. 286.
Game-board. T. M. Miller. No. 1,043,956; Nov. 12; Gaz. vol. 184; p. 352.
Game-board. W. F. Beatty. No. 1,046,544; Dec. 10; Gaz. vol. 185; p. 299.
Game-board, Arithmetical. W. H. Snyder. No. 1,024,704; Apr. 30; Sp. p. 6390; Gaz. vol. 177; p. 1126.
Game board, Base-ball-. E. Pohlig. No. 1,042,142; Oct. 22; Gaz. vol. 183; p. 935.

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Game-carrier. R. Wilson. No. 1,048,925; Dec. 31; Gaz. vol. 185; p. 1217.
Game-counter. G. H. Barker. No. 1,019,015; Mar. 5; Sp. p. 7; Gaz. vol. 176; p. 4.
Game-counter. W. L. Deming. No. 1,028,935; June 11; Sp. p. 1888; Gaz. vol. 179; p. 326.
Game-counter. F. Rosewater. No. 1,039,811; Oct. 1; Gaz. vol. 183; p. 48.
Game device. B. G. Ward. No. 1,047,468; Dec. 17; Gaz. vol. 185; p. 651.
Game device, Ball-. A. Engler. No. 1,022,186; Apr. 2; Sp. p. 918; Gaz. vol. 177; p. 147.
Game, Hunting. C. J. Schuster. No. 1,023,176; Apr. 16; Sp. p. 3085; Gaz. vol. 177; p. 551.
Game, Jumping-ring. J. Stranders. No. 1,013,827; Jan. 2; Sp. p. 1606; Gaz. vol. 174; p. 256.
Game, Mechanical ball. G. S. Curtis. No. 1,048,047; Dec. 24; Gaz. vol. 185; p. 878.
Game of skill. H. Maxim. No. 1,030,521; June 25; Sp. p. 5410; Gaz. vol. 179; p. 952.
Game-scoring device. C. T. Bishop and R. Jackson. No. 1,046,433; Dec. 10; Gaz. vol. 185; p. 258.
Game-stick. H. T. Penny. No. 1,038,429; Sept. 10; Gaz. vol. 182; p. 455.
Game-table. R. Hockin. No. 1,028,463; June 4; Sp. p. 882; Gaz. vol. 179; p. 133.
Game-table, Rotatable. W. J. J. Burch. No. 1,025,678; May 7; Sp. p. 1268; Gaz. vol. 178; p. 196.
Garbage and waste-paper receptacle. I. Hoffman. No. 1,013,775; Jan. 2; Sp. p. 1512; Gaz. vol. 174; p. 240.
Garbage and waste-paper receptacle. W. M. Kingsbury. No. 1,021,872; Apr. 2; Sp. p. 262; Gaz. vol. 177; p. 42.
Garbage-can. J. J. McNamara. No. 1,013,504; Jan. 2; Sp. p. 904; Gaz. vol. 174; p. 144.
Garbage-can holder. A. D. Gatchel. No. 1,028,705; June 4; Sp. p. 1359; Gaz. vol. 179; p. 212.
Garbage-can, Sanitary. A. E. Grubb and T. J. Bury. No. 1,039,050; Sept. 17; Gaz. vol. 182; p. 700.
Garbage-incinerating furnace. E. Smith. No. 1,037,676; Sept. 3; Gaz. vol. 182; p. 169.
Garbage, &c., incinerator. L. Mathews. No. 1,034,266; July 30; Gaz. vol. 180; p. 1319.
Garbage-pail holder. J. H. Farling. No. 1,028,698; June 4; Sp. p. 1349; Gaz. vol. 179; p. 210.
Garbage-receptacle. J. W. Hurley. No. 1,019,156; Mar. 5; Sp. p. 331; Gaz. vol. 176; p. 52.
Garbage-receptacle. L. A. Moran. No. 1,028,898; June 11; Sp. p. 1807; Gaz. vol. 179; p. 314.
Garbage-receptacle. W. H. Rhodes. No. 1,040,014; Oct. 1; Gaz. vol. 183; p. 114.
Garbage-receptacle. W. D. Drummond. No. 1,045,004; Nov. 19; Gaz. vol. 184; p. 743.
Garbage-receptacle and the like. O. A. Trost. No. 1,037,562; Sept. 3; Gaz. vol. 182; p. 130.
Garden implement. A. Euchenhofer. No. 1,019,773; Mar. 12; Sp. p. 1664; Gaz. vol. 176; p. 290.
Garden implement. L. W. Cone. No. 1,037,870; Sept. 10; Gaz. vol. 182; p. 265.
Garden-tool. F. W. Ulrich. No. 1,026,133; May 14; Sp. p. 2305; Gaz. vol. 178; p. 389.
Garden-tool. A. A. Perry. No. 1,043,459; Nov. 5; Gaz. vol. 184; p. 148.
Garment. A. Goldberg. No. 1,013,764; Jan. 2; Sp. p. 1490; Gaz. vol. 174; p. 236.
Garment. F. N. Ashworth. No. 1,016,538; Feb. 6; Sp. p. 715; Gaz. vol. 175; p. 106.
Garment. M. W. Fuchs. No. 1,016,988; Feb. 13; Sp. p. 1694; Gaz. vol. 175; p. 295.
Garment. R. S. Melnik. No. 1,021,878; Apr. 2; Sp. p. 276; Gaz. vol. 177; p. 44.
Garment. C. R. Leonard. No. 1,022,095; Apr. 2; Sp. p. 728; Gaz. vol. 177; p. 116.
Garment. A. Goldberg. No. 1,022,190; Apr. 2; Sp. p. 927; Gaz. vol. 177; p. 148.
Garment. W. E. Bray. No. 1,022,461; Apr. 9; Sp. p. 1501; Gaz. vol. 177; p. 269.
Garment. M. Miller and J. Bliden. No. 1,031,142; July 2; Gaz. vol. 180; p. 104.
Garment. S. E. Badanes. No. 1,034,186; July 30; Gaz. vol. 180; p. 1290.
Garment. A. E. Clarke. No. 1,035,819; Aug. 13; Gaz. vol. 181; p. 509.
Garment. A. M. Grean. No. 1,041,462; Oct. 15; Gaz. vol. 183; p. 670.
Garment. A. Malsin. No. 1,046,620; Dec. 10; Gaz. vol. 185; p. 325.
Garment. W. C. P. Baldwin. No. 1,046,941; Dec. 10; Gaz. vol. 185; p. 436.
Garment. F. P. Zurn. No. 1,048,633; Dec. 31; Gaz. vol. 185; p. 1116.
Garment, Adjustable. A. E. Merkel. No. 1,014,317; Jan. 9; Sp. p. 2726; Gaz. vol. 174; p. 454.
Garment, Adjustable. L. Robinson. No. 1,043,972; Nov. 12; Gaz. vol. 184; p. 357.
Garment, Antichafing and menstrual. L. M. McPherson and M. J. F. Grundy. No. 1,031,861; July 9; Gaz. vol. 180; p. 394.
Garment-attaching means. A. E. Richardson. No. 1,022,155; Apr. 2; Sp. p. 857; Gaz. vol. 177; p. 136.
Garment, Burial-. C. C. Holcomb. No. 1,028,464; June 4; Sp. p. 884; Gaz. vol. 179; p. 133.
Garment, Buttonless union. W. L. Siewers. No. 1,025,840; May 7; Sp. p. 1596; Gaz. vol. 178; p. 253.
Garment-carrying device. O. Rangnow. No. 1,014,905; Jan. 16; Sp. p. 4047; Gaz. vol. 174; p. 684.
Garment, Catamenial. L. Alden. No. 1,041,225; Oct. 15; Gaz. vol. 183; p. 590.
Garment-cementing machine. S. Lipson. No. 1,039,681; Sept. 24; Gaz. vol. 182; p. 939.
Garment-clasp. J. Lemay. No. 1,030,098; June 18; Sp. p. 4428; Gaz. vol. 179; p. 765.
Garment-clasp. M. Krischer. No. 1,045,042; Nov. 19; Gaz. vol. 184; p. 757.
Garment-closer. J. Hughes. No. 1,029,930; June 18; Sp. p. 4072; Gaz. vol. 179; p. 707.
Garment closure, Weatherproof-. L. T. Sawyer. No. 1,028,908; June 11; Sp. p. 1826; Gaz. vol. 179; p. 317.
Garment, Combination-. A. K. Kronenberger. No. 1,014,653; Jan. 16; Sp. p. 3485; Gaz. vol. 174; p. 598.
Garment, Combination-. P. R. Straus. No. 1,024,477; Apr. 23; Sp. p. 5823; Gaz. vol. 177; p. 1012.
Garment, Combination-. G. A. Kurz and H. C. Shonting. No. 1,031,719; July 9; Gaz. vol. 180; p. 344.
Garment, Combination lady's and miss's. D. M. Routery. No. 1,036,908; Aug. 27; Gaz. vol. 181; p. 951.
Garment-connecting device. M. Schwartz. No. 1,029,828; June 18; Sp. p. 3831; Gaz. vol. 179; p. 672.
Garment-fastener. H. S. Heller. No. 1,014,148; Jan. 9; Sp. p. 2350; Gaz. vol. 174; p. 393.
Garment-fastener. M. C. Dallas. No. 1,015,143; Jan. 16; Sp. p. 4541; Gaz. vol. 174; p. 766.
Garment-fastening hook for women and children. M. B. Goodwin. No. 1,023,514; Apr. 16; Sp. p. 3751; Gaz. vol. 177; p. 663.
Garment-fitter. P. E. Sobotker and D. H. Ackerman. No. 1,045,449; Nov. 26; Gaz. vol. 184; p. 927.
Garment-fitter for waists. H. Lee. No. 1,014,885; Jan. 16; Sp. p. 4008; Gaz. vol. 174; p. 677.
Garment for stage effects. A. L. McMurtry. No. 1,022,433; Apr. 9; Sp. p. 1447; Gaz. vol. 177; p. 259.
Garment-former. J. Manowitz. No. 1,045,305; Nov. 26; Gaz. vol. 184; p. 875.
Garment-hanger. C. W. Brown and O. W. Brenizer. No. 1,013,583; Jan. 2; Sp. p. 1060; Gaz. vol. 174; p. 171.
Garment-hanger. C. W. Hewlett. No. 1,014,597; Jan. 9; Sp. p. 3281; Gaz. vol. 174; p. 547.
Garment-hanger. C. Robert. No. 1,015,076; Jan. 16; Sp. p. 4416; Gaz. vol. 174; p. 742.
Garment-hanger. C. T. and E. E. Wilt. No. 1,015,605; Jan. 23; Sp. p. 5549; Gaz. vol. 174; p. 950.
Garment-hanger. C. T. and E. E. Wilt. No. 1,015,606; Jan. 23; Sp. p. 5551; Gaz. vol. 174; p. 950.
Garment-hanger. J. Walters. No. 1,015,918; Jan. 30; Sp. p. 6217; Gaz. vol. 174; p. 1084.
Garment-hanger. C. B. Corbin. No. 1,017,854; Feb. 20; Sp. p. 3590; Gaz. vol. 175; p. 629.
Garment-hanger. L. D. Hincher. No. 1,018,056; Feb. 20; Sp. p. 4054; Gaz. vol. 175; p. 701.
Garment-hanger. L. D. Hincher. No. 1,018,057; Feb. 20; Sp. p. 4055; Gaz. vol. 175; p. 701.
Garment-hanger. H. E. Rathbun. No. 1,018,584; Feb. 27; Sp. p. 5266; Gaz. vol. 175; p. 915.
Garment-hanger. G. G. Hunt. No. 1,020,608; Mar. 19; Sp. p. 3400; Gaz. vol. 176; p. 603.
Garment-hanger. M. Raughtigan. No. 1,022,504; Apr. 9; Sp. p. 1582; Gaz. vol. 177; p. 283.
Garment-hanger. M. Ackerman and A. Bleicher. No. 1,025,775; May 7; Sp. p. 1461; Gaz. vol. 178; p. 230.
Garment-hanger. M. A. Gilman. No. 1,027,837; May 28; Sp. p. 6001; Gaz. vol. 178; p. 1041.
Garment-hanger. A. F. Carlin. No. 1,031,910; July 9; Gaz. vol. 180; p. 411.
Garment-hanger. H. C. Markman. No. 1,031,946; July 9; Gaz. vol. 180; p. 423.
Garment-hanger. L. R. Frank. No. 1,040,181; Oct. 1; Gaz. vol. 183; p. 170.
Garment-hanger. A. E. Paskell. No. 1,043,351; Nov. 5; Gaz. vol. 184; p. 109.
Garment-hanger. W. O. Slavin. No. 1,047,846; Dec. 17; Gaz. vol. 185; p. 784.
Garment-hanger and the like. S. B. De Yongh. No. 1,043,679; Nov. 5; Gaz. vol. 184; p. 225.
Garment-holder. A. St. Clair. No. 1,035,256; Aug. 13; Gaz. vol. 181; p. 316.
Garment-hook. A. K. Chapman. No. 1,017,738; Feb. 20; Sp. p. 3285; Gaz. vol. 175; p. 588.
Garment-hook. H. Grant. No. 1,029,989; June 18; Sp. p. 4185; Gaz. vol. 179; p. 726.
Garment-hook. G. H. Cliff. No. 1,036,799; Aug. 27; Gaz. vol. 181; p. 916.
Garment, Infant's. A. A. Fanta. No. 1,030,989; July 2; Gaz. vol. 180; p. 49.
Garment, Overall-. W. T. Clifford. No. 1,037,206; Sept. 3; Gaz. vol. 182; p. 10.
Garment-rack. M. Vaughan. No. 1,039,226; Sept. 24; Gaz. vol. 182; p. 779.
Garment-receptacle. W. S. Gilmore. No. 1,028,206; June 4; Sp. p. 335; Gaz. vol. 179; p. 45.
Garment-receptacle. W. S. Gilmore. No. 1,028,207; June 4; Sp. p. 337; Gaz. vol. 179; p. 45.

Alphabetical list of inventions—Continued.

Garment, Reversible and adjustable. W. C. P. Baldwin. No. 1,038,821; Sept. 17; Gaz. vol. 182; p. 626.
Garment, Sanitary. C. F. Titus. No. 1,030,943; July 2; Gaz. vol. 180; p. 32.
Garment-stays, Machine for making wire. M. M. Beeman and J. F. Kitchen. No. 1,042,756; Oct. 29; Gaz. vol. 183; p. 1174.
Garment-support. H. C. Wilson. No. 1,036,397; Aug. 20; Gaz. vol. 181; p. 749.
Garment-support. F. E. Krauch. No. 1,041,104; Oct. 15; Gaz. vol. 183; p. 550.
Garment-support. B. L. Brandt. No. 1,045,938; Dec. 3; Gaz. vol. 185; p. 48.
Garment support or holder. B. H. Boyd. No. 1,013,474; Jan. 2; Sp. p. 840; Gaz. vol. 174; p. 134.
Garment-supporter. C. J. White. No. 1,023,538; Apr. 16; Sp. p. 3787; Gaz. vol. 177; p. 669.
Garment-supporter. L. N. and F. O. Cates. No. 1,026,302; May 14; Sp. p. 2669; Gaz. vol. 178; p. 447.
Garment-supporter. H. C. Hine. No. 1,033,053; July 16; Gaz. vol. 180; p. 841.
Garment-supporter. T. N. Figuers, Jr. No. 1,034,226; July 30; Gaz. vol. 180; p. 1305.
Garment-supporter. H. F. Niles. No. 1,039,995; Oct. 1; Gaz. vol. 183; p. 108.
Garment-supporter. W. C. Jones. No. 1,046,798; Dec. 10; Gaz. vol. 185; p. 389.
Garment-supporter. L. A. Myers, Jr. No. 1,049,134; Dec. 31; Gaz. vol. 185; p. 1290.
Garment, Union. T. A. Miller. No. 1,033,437; July 23; Gaz. vol. 180; p. 1009.
Garment, Union overall-. L. A. Hazard. No. 1,019,713; Mar. 5; Sp. p. 1527; Gaz. vol. 176; p. 237.
Garment, Weatherproof outing-. A. R. Jacobs. No. 1,015,231; Jan. 16; Sp. p. 4713; Gaz. vol. 174; p. 794.
Garter. D. A. Sinclair. No. 1,019,541; Mar. 5; Sp. p. 1217; Gaz. vol. 176; p. 181.
Garter. E. B. Winters. No. 1,022,217; Apr. 2; Sp. p. 984; Gaz. vol. 177; p. 158.
Garter. M. I. English. No. 1,046,283; Dec. 3; Gaz. vol. 185; p. 169.
Garter. D. J. Ring. No. 1,046,493; Dec. 10; Gaz. vol. 185; p. 280.
Gas-alarm, Electric. C. C. Clark. No. 1,024,061; Apr. 23; Sp. p. 4910; Gaz. vol. 177; p. 870.
Gas-analyzer, Indicating. C. O. Mailloux and H. J. Westover. No. 1,014,241; Jan. 9; Sp. p. 2566; Gaz. vol. 174; p. 428.
Gas and air mixing meter. G. R. Cottrell. No. 1,042,403; Oct. 29; Gaz. vol. 183; p. 1049.
Gas and air tight joint. B. S. Harrison. No. 1,032,753; July 16; Gaz. vol. 180; p. 742.
Gas and coke, Retort-oven for producing. H. Koppers. No. 1,026,169; May 14; Sp. p. 2376; Gaz. vol. 178; p. 401.
Gas and electric fixture attachment. J. L. Robb. No. 1,035,743; Aug. 13; Gaz. vol. 181; p. 483.
Gas and like burner, Incandescent. J. Gallié. No. 1,018,969; Feb. 27; Sp. p. 6070; Gaz. vol. 175; p. 1044
Gas and recovering by-products, Purifying. F. H. Wagner. No. 1,020,168; Mar. 12; Sp. p. 2478; Gaz. vol. 176; p. 422.
Gas and smoke burning furnace or stove. A. Williams. No. 1,042,737; Oct. 29; Gaz. vol. 183; p. 1168.
Gas and smoke consumer. J. Harmon. No. 1,036,228; Aug. 20; Gaz. vol. 181; p. 691.
Gas apparatus, Condenser for. E. R. Angell. No. 1,020,339; Mar. 12; Sp. p. 2811; Gaz. vol. 176; p. 477.
Gas, Apparatus for generating high-pressure oil-. R. Vuilleumier. No. 1,038,691; Sept. 17; Gaz. vol. 182; p. 580.
Gas, Apparatus for making carbureted hydrogen. J. R. Herndon. No. 1,019,714; Mar. 5; Sp. p. 1528; Gaz. vol. 176; p. 237.
Gas, Apparatus for the manufacture of. W. G. Laird. No. 1,014,654; Jan. 16; Sp. p. 3486; Gaz. vol. 174; p. 598.
Gas-blowpipe. H. Schweitzer. No. 1,046,112; Dec. 3; Gaz. vol. 185; p. 108.
Gas-burner. J. B. Anderson. No. 1,014,111; Jan. 9; Sp. p. 2286; Gaz. vol. 174; p. 381.
Gas-burner. E. S. Sanderson. No. 1,014,777; Jan. 16; Sp. p. 3758; Gaz. vol. 174; p. 639.
Gas-burner. H. E. Gilbert. No. 1,018,819; Feb. 27; Sp. p. 5759; Gaz. vol. 175; p. 994.
Gas-burner. G. Bruneau. No. 1,019,298; Mar. 5; Sp. p. 656; Gaz. vol. 176; p. 102.
Gas-burner. A. Grandjean. No. 1,019,318; Mar. 5; Sp. p. 705; Gaz. vol. 176; p. 110.
Gas-burner. E. G. Van Zandt. (Reissue.) No. 13,387; Mar. 19; Sp. p. 4148; Gaz. vol. 176; p. 724.
Gas-burner. A. B. Murray. No. 1,024,016; Apr. 23; Sp. p. 4806; Gaz. vol. 177; p. 854.
Gas-burner. G. H. Huston. No. 1,024,261; Apr. 23; Sp. p. 5376; Gaz. vol. 177; p. 941.
Gas-burner. E. R. Brayshaw. No. 1,024,393; Apr. 23; Sp. p. 5598; Gaz. vol. 177; p. 982.
Gas-burner. F. W. Gault, Jr. No. 1,024,443; Apr. 23; Sp. p. 5736; Gaz. vol. 177; p. 998.
Gas-burner. H. E. Harris. No. 1,024,849; Apr. 30; Sp. p. 6698; Gaz. vol. 177; p. 1179.
Gas-burner. E. C. Dickinson. No. 1,025,083; Apr. 30; Sp. p. 7163; Gaz. vol. 177; p. 1256.
Gas-burner. A. F. Thompson. No. 1,026,476; May 14; Sp. p. 3065; Gaz. vol. 178; p. 505.
Gas-burner. C. O'Neil. No. 1,030,118; June 18; Sp. p. 4459; Gaz. vol. 179; p. 770.
Gas-burner. M. A. Possons. No. 1,032,860; July 16; Gaz. vol. 180; p. 777.
Gas-burner. W. W. Kemp and W. H. Van Horn. No. 1,033,416; July 23; Gaz. vol. 180; p. 1002.
Gas-burner. C. G. Farez. No. 1,034,224; July 30; Gaz. vol. 180; p. 1304.
Gas-burner. F. M. Ashley. No. 1,035,517; Aug. 13; Gaz. vol. 181; p. 409.
Gas-burner. T. B. Wylie. No. 1,037,398; Sept. 3; Gaz. vol. 182; p. 74.
Gas-burner. J. Roy. No. 1,038,965; Sept. 17; Gaz. vol. 182; p. 675.
Gas-burner. W. B. Bastian. No. 1,040,986; Oct. 8; Gaz. vol. 183; p. 477.
Gas-burner. F. H. Oehlke. No. 1,041,863; Oct. 22; Gaz. vol. 183; p. 842.
Gas-burner. W. N. Best, Sr. No. 1,042,872; Oct. 29; Gaz. vol. 183; p. 1215.
Gas-burner. E. G. Van Zandt. No. 1,045,464; Nov. 26; Gaz. vol. 184; p. 933.
Gas-burner. E. G. Van Zandt. No. 1,045,465; Nov. 26; Gaz. vol. 184; p. 933.
Gas-burner. E. G. Van Zandt. No. 1,045,467; Nov. 26; Gaz. vol. 184; p. 933.
Gas-burner. E. G. Van Zandt. No. 1,045,468; Nov. 26; Gaz. vol. 184; p. 934.
Gas-burner. E. G. Van Zandt. No. 1,045,469; Nov. 26; Gaz. vol. 184; p. 934.
Gas-burner. E. G. Van Zandt. No. 1,045,470; Nov. 26; Gaz. vol. 184; p. 935.
Gas-burner. E. G. Van Zandt. No. 1,045,471; Nov. 26; Gaz. vol. 184; p. 935.
Gas-burner. E. G. Van Zandt. No. 1,045,472; Nov. 26; Gaz. vol. 184; p. 935.
Gas-burner. E. G. Van Zandt. No. 1,045,473; Nov. 26; Gaz. vol. 184; p. 936.
Gas-burner. E. G. Van Zandt. No. 1,045,474; Nov. 26; Gaz. vol. 184; p. 936.
Gas-burner. E. G. Van Zandt. No. 1,045,475; Nov. 26; Gaz. vol. 184; p. 936.
Gas-burner. A. J. Fisher. No. 1,046,758; Dec. 10; Gaz. vol. 185; p. 375.
Gas-burner. J. C. Gehring. No. 1,047,200; Dec. 17; Gaz. vol. 185; p. 555.
Gas-burner. W. W. Clindinin. No. 1,047,385; Dec. 17; Gaz. vol. 185; p. 622.
Gas-burner. H. V. Deemar. No. 1,047,392; Dec. 17; Gaz. vol. 185; p. 624.
Gas-burner. J. H. Martindale. No. 1,048,716; Dec. 31; Gaz. vol. 185; p. 1145.
Gas-burner and electric gas-igniter, Combination. H. D. Grinnell. No. 1,040,937; Oct. 8; Gaz. vol. 183; p. 458.
Gas-burner attachment for vehicle-lamps and the like. J. Ferguson. No. 1,018,104; Feb. 20; Sp. p. 4171; Gaz. vol. 175; p. 717.
Gas-burner automatic cut-off valve. F. J. Madden. No. 1,035,208; Aug. 13; Gaz. vol. 181; p. 300.
Gas-burner for furnaces. E. H. Kesselman. No. 1,022,558; Apr. 9; Sp. p. 1698; Gaz. vol. 177; p. 300.
Gas burner, Fuel-. J. C. Beckfield. No. 1,016,869; Feb. 6; Sp. p. 1407; Gaz. vol. 175; p. 217.
Gas-burner, Incandescent. H. Süssmann. No. 1,024,462; Apr. 23; Sp. p. 5790; Gaz. vol. 177; p. 1006.
Gas-burner, Incandescent. J. Visseaux. No. 1,045,646; Nov. 26; Gaz. vol. 184; p. 998.
Gas-burner, Incandescent. O. Wiederhold. No. 1,048,016; Dec. 24; Gaz. vol. 185; p. 868.
Gas-burner-lighting device. G. H. Schaetzel. No. 1,036,727; Aug. 27; Gaz. vol. 181; p. 892.
Gas-burner, Regenerative. F. Blumenstein. No. 1,038,274; Sept. 10; Gaz. vol. 182; p. 401.
Gas-burner, Safety. N. Wise. No. 1,019,741; Mar. 5; Sp. p. 1584; Gaz. vol. 176; p. 247.
Gas-burner, Safety. W. B. Stoudt. No. 1,029,830; June 18; Sp. p. 3834; Gaz. vol. 179; p. 672.
Gas-burner, Safety. A. W. Bowden. No. 1,034,866; Aug. 6; Gaz. vol. 181; p. 158.
Gas-burner, Safety. E. F. Debley. No. 1,038,096; Sept. 10; Gaz. vol. 182; p. 341.
Gas-burner, Safety. O. Lowy. No. 1,038,772; Sept. 17; Gaz. vol. 182; p. 609.
Gas-burner safety device. L. W. G. Flynt. No. 1,027,534; May 28; Sp. p. 5370; Gaz. vol. 178; p. 940.
Gas-burner tip. P. Keller and P. Seiler. No. 1,015,232; Jan. 16; Sp. p. 4714; Gaz. vol. 174; p. 794.
Gas-burner tip. F. E. Buddington. No. 1,043,396; Nov. 5; Gaz. vol. 184; p. 125.
Gas-burner tip, Acetylene-. C. E. Arundel. No. 1,035,137; Aug. 13; Gaz. vol. 181; p. 275.
Gas-burner valve. F. E. Yates. No. 1,034,669; Aug. 6; Gaz. vol. 181; p. 88.
Gas-burners, Automatic cut-off for. E. F. Debley. No. 1,041,972; Oct. 22; Gaz. vol. 183; p. 879.

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Gas-burners, Automatic igniting and extinguishing device for. O. S. Lied. No. 1,043,946; Nov. 12; Gaz. vol. 184; p. 347.
Gas-burners, Cylinder or globe for inverted incandescent. A. P. Storrs. No. 1,027,449; May 28; Sp. p. 5199; Gaz. vol. 178; p. 912.
Gas-burners, Electric ignition apparatus for. H. Wasserzier. No. 1,030,953; July 2; Gaz. vol. 180; p. 35.
Gas-burners, Gas-controlling mechanism for. E. O. Bentley. No. 1,027,519; May 28; Sp. p. 5338; Gaz. vol. 178; p. 935.
Gas-burners, Heating device or attachment for. P. W. Kohloff. No. 1,048,177; Dec. 24; Gaz. vol. 185; p. 923.
Gas-burners, Needle-valves for. A. G. Thomas. No. 1,027,934; May 28; Sp. p. 6250; Gaz. vol. 178; p. 1073.
Gas-burners, Windproof casing for inverted incandescent. K. A. A. Staahlgren. No. 1,024,106; Apr. 23; Sp. p. 5014; Gaz. vol. 177; p. 886.
Gas-burning furnace. G. L. Fogler. No. 1,045,829; Dec. 3; Gaz. vol. 185; p. 12.
Gas-caps, Safety-stop for. P. S. Bailey. No. 1,019,409; Mar. 5; Sp. p. 949; Gaz. vol. 176; p. 138.
Gas-chain fixture. F. D. Pitcher. No. 1,046,489; Dec. 10; Gaz. vol. 185; p. 278.
Gas-cleaner. P. Meehan. No. 1,035,892; Aug. 20; Gaz. vol. 181; p. 573.
Gas cleaning, cooling, and washing apparatus. H. E. Theisen. No. 1,042,840; Oct. 29; Gaz. vol. 183; p. 1202.
Gas-cock attachment. E. F. Hall. No. 1,033,314; July 23; Gaz. vol. 180; p. 970.
Gas, Collection of fume, flue-dust, and other matter suspended in. R. F. Pearce. No. 1,028,487; June 4; Sp. p. 940; Gaz. vol. 179; p. 141.
Gas, Container or cylinder for compressed or liquefied. R. H. Campbell. No. 1,022,301; Apr. 2; Sp. p. 1143; Gaz. vol. 177; p. 183.
Gas-controller and safety-valve. F. S. Drummond. No. 1,021,581; Mar. 26; Sp. p. 5489; Gaz. vol. 176; p. 986.
Gas-controller, electric time-switch, and other timing device. A., G. O. H., E. H., and S. A. Horstmann and W. T. Edgar. No. 1,027,653; May 28; Sp. p. 5609; Gaz. vol. 178; p. 979.
Gas-controlling apparatus. H. Sieben. No. 1,033,958; July 30; Gaz. vol. 180; p. 1210.
Gas cut-off. C. P. Dressel. No. 1,026,570; May 14; Sp. p. 3239; Gaz. vol. 178; p. 535.
Gas cut-off. F. C. Gillman. No. 1,045,693; Nov. 26; Gaz. vol. 184; p. 1014.
Gas cut-off, Automatic. A. M. C. Bubb. No. 1,022,822; Apr. 9; Sp. p. 2294; Gaz. vol. 177; p. 392.
Gas cut-off, Automatic. R. A. Mack. No. 1,028,044; May 28; Sp. p. 6487; Gaz. vol. 178; p. 1110.
Gas cut-off, Automatic. J. Zaphiriadis. No. 1,031,224; July 2; Gaz. vol. 180; p. 133.
Gas cut-off, Automatic. E. G. Marin. No. 1,037,275; Sept. 3; Gaz. vol. 182; p. 33.
Gas cut-off, Automatic. R. L. Alexander and J. D. Lydick. No. 1,046,931; Dec. 10; Gaz. vol. 185; p. 433.
Gas cut-off, Safety. H. H. Hustead. No. 1,033,700; July 23; Gaz. vol. 180; p. 1094.
Gas, Device for controlling from a distance the passage of. A. M. and J. M. Aubert. No. 1,028,657; June 4; Sp. p. 1282; Gaz. vol. 179; p. 197.
Gas distribution, Antifluctuating system for. C. Wiebke. No. 1,033,364; July 23; Gaz. vol. 180; p. 986.
Gas dry cleaner. M. W. Johnson, Jr. No. 1,024,784; Apr. 30; Sp. p. 6558; Gaz. vol. 177; p. 1155.
Gas, Economic process of producing. M. Mauren and J. H. MacMahon. No. 1,031,017; July 2; Gaz. vol. 180; p. 59.
Gas-engine. C. H. Sauvan. No. 1,013,619; Jan. 2; Sp. p. 1147; Gaz. vol. 174; p. 183.
Gas-engine. G. F. Murphy. No. 1,013,888; Jan. 9; Sp. p. 1782; Gaz. vol. 174; p. 306.
Gas-engine. H. Cooper. No. 1,018,481; Feb. 27; Sp. p. 4981; Gaz. vol. 175; p. 877.
Gas-engine. R. S. Moore and J. L. Simmons. No. 1,019,513; Mar. 5; Sp. p. 1166; Gaz. vol. 176; p. 172.
Gas-engine. J. M. Ulrich. No. 1,019,563; Mar. 5; Sp. p. 1260; Gaz. vol. 176; p. 188.
Gas-engine. H. G. Dahl. No. 1,020,081; Mar. 12; Sp. p. 2281; Gaz. vol. 176; p. 393.
Gas-engine. J. H. Pierce. No. 1,022,502; Apr. 9; Sp. p. 1579; Gaz. vol. 177; p. 282.
Gas-engine. J. Loftus. No. 1,022,686; Apr. 9; Sp. p. 1984; Gaz. vol. 177; p. 344.
Gas-engine. R. S. Moore and J. L. Simmons. No. 1,022,864; Apr. 9; Sp. p. 2370; Gaz. vol. 177; p. 406.
Gas-engine. C. Robinson. No. 1,028,492; June 4; Sp. p. 947; Gaz. vol. 179; p. 142.
Gas-engine. G. E. Claus. No. 1,031,246; July 2; Gaz. vol. 180; p. 141.
Gas-engine. S. J. Webb. No. 1,031,601; July 2; Gaz. vol. 180; p. 261.
Gas-engine. C. White. No. 1,034,549; Aug. 6; Gaz. vol. 181; p. 50.
Gas-engine. B. M. Aslakson. No. 1,034,673; Aug. 6; Gaz. vol. 181; p. 90.
Gas-engine. B. F. Stewart. No. 1,035,488; Aug. 13; Gaz. vol. 181; p. 398.
Gas-engine. A. J. Dexter. No. 1,038,537; Sept. 17; Gaz. vol. 182; p. 526.
Gas-engine. C. T. Wade. No. 1,040,472; Oct. 8; Gaz. vol. 183; p. 298.
Gas-engine. A. M. Gibson. No. 1,043,221; Nov. 5; Gaz. vol. 184; p. 63.
Gas-engine. G. E. Forry. No. 1,043,583; Nov. 5; Gaz. vol. 184; p. 192.
Gas-engine. A. Randolph. No. 1,046,491; Dec. 10; Gaz. vol. 185; p. 279.
Gas-engine. F. L. Cross. No. 1,046,738; Dec. 10; Gaz. vol. 185; p. 368.
Gas-engine. H. R. Van Vleck. No. 1,048,918; Dec. 31; Gaz. vol. 185; p. 1215.
Gas-engine, Compound. G. W. Jessup, Jr. No. 1,026,512; May 14; Sp. p. 3131; Gaz. vol. 178; p. 517.
Gas engine, Explosive-. L. R. O'Neill. No. 1,021,791; Apr. 2; Sp. p. 72; Gaz. vol. 177; p. 15.
Gas-engine, Multicylinder. S. J. Macfarren. No. 1,031,131; July 2; Gaz. vol. 180; p. 100.
Gas explosions, Method of and apparatus for preventing. G. Baehr. No. 1,015,929; Jan. 30; Sp. p. 6236; Gaz. vol. 174; p. 1087.
Gas-fixture. G. R. Chamberlain and A. G. Schroeder. No. 1,019,131; Mar. 5; Sp. p. 278; Gaz. vol. 176; p. 43.
Gas-fixture. G. R. Chamberlain and A. G. Schroeder. No. 1,019,132; Mar. 5; Sp. p. 279; Gaz. vol. 176; p. 43.
Gas-fixture. J. W. Langendorfer. No. 1,026,447; May 14; Sp. p. 3006; Gaz. vol. 178; p. 495.
Gas-fixture. H. Lyon. No. 1,046,819; Dec. 10; Gaz. vol. 185; p. 395.
Gas-fixture safety appliance. P. R. Richards. No. 1,017,468; Feb. 13; Sp. p. 2748; Gaz. vol. 175; p. 462.
Gas-fixtures, Safety connection for. G. De Grey. No. 1,017,654; Feb. 20; Sp. p. 3098; Gaz. vol. 175; p. 560.
Gas-flames from a distant point, Device for lighting and extinguishing. G. Dalén. No. 1,041,038; Oct. 15; Gaz. vol. 183; p. 527.
Gas for explosive-engines, Generating oil-. F. H. Bates. No. 1,046,539; Dec. 10; Gaz. vol. 185; p. 297.
Gas for explosive-engines, Generating oil-. F. H. Bates. No. 1,046,541; Dec. 10; Gaz. vol. 185; p. 298.
Gas from a distance, Apparatus for controlling the lighting of. E. Körner. No. 1,025,750; May 7; Sp. p. 1415; Gaz. vol. 178; p. 222.
Gas from gas-pipes, Device for preventing the escape of. P. G. Fischer. No. 1,047,776; Dec. 17; Gaz. vol. 185; p. 760.
Gas from oil or other liquids, Separator for removing. E. V. Bray. No. 1,014,943; Jan. 16; Sp. p. 4146; Gaz. vol. 174; p. 697.
Gas-fuel conduit. E. A. W. Jefferies. No. 1,037,920; Sept. 10; Gaz. vol. 182; p. 283.
Gas-furnace. J. A. Abrams. No. 1,017,489; Feb. 13; Sp. p. 2786; Gaz. vol. 175; p. 470.
Gas-furnace. A. K. Lindley. No. 1,026,814; May 21; Sp. p. 3787; Gaz. vol. 178; p. 656.
Gas-furnace. G. H. Minier and T. Lowe. No. 1,032,695; July 16; Gaz. vol. 180; p. 723.
Gas-furnace. G. Sweet. No. 1,047,331; Dec. 17; Gaz. vol. 185; p. 605.
Gas-furnace for heating, scaling, and hardening purposes. P. Schmidt. No. 1,026,885; May 21; Sp. p. 3957; Gaz. vol. 178; p. 681.
Gas, Generating. D. D. Barnum. No. 1,039,479; Sept. 24; Gaz. vol. 182; p. 868.
Gas, Generating. H. Philipp. No. 1,041,865; Oct. 22; Gaz. vol. 183; p. 843.
Gas-generating apparatus. M. and J. H. White. No. 1,023,978; Apr. 23; Sp. p. 4735; Gaz. vol. 177; p. 840.
Gas-generating apparatus. H. F. Wallmann. No. 1,047,348; Dec. 17; Gaz. vol. 185; p. 610.
Gas-generating apparatus, Acetylene-. D. W. Caldwell. No. 1,043,297; Nov. 5; Gaz. vol. 184; p. 89.
Gas-generating furnace. G. Richter. No. 1,027,154; May 21; Sp. p. 4603; Gaz. vol. 178; p. 773.
Gas, Generating oil-. F. H. Bates. No. 1,046,542; Dec. 10; Gaz. vol. 185; p. 298.
Gas generating or producing apparatus. A. S. Cambridge. No. 1,024,117; Apr. 23; Sp. p. 5055; Gaz. vol. 177; p. 891.
Gas-generating plant. H. Foersterling. No. 1,015,549; Jan. 23; Sp. p. 5422; Gaz. vol. 174; p. 929.
Gas-generator. S. N. North. No. 1,015,632; Jan. 23; Sp. p. 5612; Gaz. vol. 174; p. 960.
Gas-generator. R. Bellamy. No. 1,017,495; Feb. 13; Sp. p. 2796; Gaz. vol. 175; p. 472.
Gas-generator. E. Lorin. No. 1,020,651; Mar. 19; Sp. p. 3501; Gaz. vol. 176; p. 618.
Gas-generator. W. Kirkwood. No. 1,029,692; June 18; Sp. p. 3518; Gaz. vol. 179; p. 624.
Gas-generator. J. Kilburn, J. W. Fairley, T. B. Kidner, W. H. Irvine, and W. T. Chestnut. No. 1,029,872; June 18; Sp. p. 3940; Gaz. vol. 179; p. 686.
Gas-generator. N. Goodyear. No. 1,031,709; July 9; Gaz. vol. 180; p. 341.
Gas-generator. A. S. Freeman. No. 1,034,702; Aug. 6; Gaz. vol. 181; p. 100.
Gas-generator. W. Hoeller. No. 1,037,481; Sept. 3; Gaz. vol. 182; p. 104.

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Gas-generator. C. Bingham. No. 1,038,077; Sept. 10; Gaz. vol. 182; p. 335.
Gas-generator. C. A. Kuenzel. No. 1,039,549; Sept. 24; Gaz. vol. 182; p. 893.
Gas-generator. R. C. Bradley. No. 1,042,882; Oct. 29; Gaz. vol. 183; p. 1218.
Gas-generator. T. H. Armstrong. No. 1,049,034; Dec. 31; Gaz. vol. 185; p. 1256.
Gas generator, Acetylene-. P. F. Willis. No. 1,013,249; Jan. 2; Sp. p. 350; Gaz. vol. 174; p. 56.
Gas generator, Acetylene-. J. W. Silver. No. 1,013,520; Jan. 2; Sp. p. 938; Gaz. vol. 174; p. 150.
Gas generator, Acetylene-. E. W. Dunham. No. 1,013,752; Jan. 2; Sp. p. 1462; Gaz. vol. 174; p. 231.
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Gas generator, Acetylene-. G. H. Cook. No. 1,015,378; Jan. 23; Sp. p. 5056; Gaz. vol. 174; p. 872.
Gas generator, Acetylene-. L. Bader. No. 1,015,867; Jan. 30; Sp. p. 6103; Gaz. vol. 174; p. 1064.
Gas generator, Acetylene-. J. Corroyer. No. 1,016,475; Feb. 6; Sp. p. 543; Gaz. vol. 175; p. 84.
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Gas generator, Acetylene-. J. H. Miner. No. 1,016,843; Feb. 6; Sp. p. 1346; Gaz. vol. 175; p. 208.
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Gas generator, Acetylene-. P., W., and I. Minter. No. 1,027,750; May 28; Sp. p. 5801; Gaz. vol. 178; p. 1011.
Gas generator, Acetylene-. F. H. Young. No. 1,028,174; June 4; Sp. p. 268; Gaz. vol. 179; p. 33.
Gas generator, Acetylene-. E. Scott. No. 1,029,722; June 18; Sp. p. 3600; Gaz. vol. 179; p. 635.
Gas generator, Acetylene-. J. Kilburn, J. W. Fairley, T. B. Kidner, W. H. Irvine, and W. T. Chestnut. No. 1,029,873; June 18; Sp. p. 3944; Gaz. vol. 179; p. 687.
Gas generator, Acetylene-. J. Kilburn, J. W. Fairley, T. B. Kidner, W. H. Irvine, and W. T. Chestnut. No. 1,029,874; June 18; Sp. p. 3948; Gaz. vol. 179; p. 687.
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Gas generator, Acetylene-. C. W. Beck. No. 1,033,863; July 30; Gaz. vol. 180; p. 1176.
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Gas generator, Acetylene-. D. C. Boruff. No. 1,038,081; Sept. 10; Gaz. vol. 182; p. 336.
Gas generator, Acetylene-. J. K. Hawkins. No. 1,047,219; Dec. 17; Gaz. vol. 185; p. 563.
Gas generator, Acetylene-. J. F. Williams. No. 1,047,902; Dec. 17; Gaz. vol. 185; p. 803.
Gas generator and burner, Combined. E. E. Hickerson. No. 1,041,283; Oct. 15; Gaz. vol. 183; p. 612.
Gas-generator furnace. F. J. Orr. No. 1,030,202; June 18; Sp. p. 4644; Gaz. vol. 179; p. 798.
Gas generator, Hydrogen-. W. L. Dolben. No. 1,015,875; Jan. 30; Sp. p. 6121; Gaz. vol. 174; p. 1067.
Gas generator, Oil-. E. S. Hoyt. No. 1,017,214; Feb. 13; Sp. p. 2200; Gaz. vol. 175; p. 374.
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Gas generators, Means for feeding carbid to acetylene-. L. Bader. No. 1,049,321; Dec. 31; Gaz. vol. 185; p. 1354.
Gas-governor. J. M. Blackburn. No. 1,025,505; May 7; Sp. p. 890; Gaz. vol. 178; p. 139.
Gas-governor. G. A. Hyde. No. 1,040,545; Oct. 8; Gaz. vol. 183; p. 325.
Gas-heater. L. F. Betts. No. 1,025,427; May 14; Sp. p. 2951; Gaz. vol. 178; p. 489.
Gas-heater. L. F. Betts. No. 1,028,666; June 4; Sp. p. 1301; Gaz. vol. 179; p. 200.
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Gas-heater. P. F. Woldan. No. 1,041,553; Oct. 15; Gaz. vol. 183; p. 699.
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Gas-holder safety device. A. R. Cruse. No. 1,013,643; Jan. 2; Sp. p. 1199; Gaz. vol. 174; p. 191.
Gas-holders, Steam-pipe for. W. A. Crammond. No. 1,018,033; Feb. 20; Sp. p. 4000; Gaz. vol. 175; p. 692.
Gas-igniter. O. Struller. No. 1,039,612; Sept. 24; Gaz. vol. 182; p. 914.
Gas-igniting apparatus. H. P. Rostin. No. 1,042,971; Oct. 29; Gaz. vol. 183; p. 1247.
Gas-light fixture. J. Maas. No. 1,027,743; May 28; Sp. p. 5787; Gaz. vol. 178; p. 1008.
Gas-light, Intermittent. T. Jackson. No. 1,042,117; Oct. 22; Gaz. vol. 183; p. 927.
Gas-light, Inverted incandescent. V. H. Slinack. No. 1,039,675; Sept. 24; Gaz. vol. 182; p. 936.
Gas-lights from a distance, Apparatus for lighting and extinguishing. J. F. Nässén and F. J. H. Rustige. No. 1,047,552; Dec. 17; Gaz. vol. 185; p. 681.
Gas-lighter. E. Lamprecht. No. 1,029,135; June 11; Sp. p. 2316; Gaz. vol. 179; p. 395.
Gas-lighter. C. Hubert. No. 1,041,795; Oct. 22; Gaz. vol. 183; p. 819.
Gas-lighter. H. Rottersmann. No. 1,046,025; Dec. 3; Gaz. vol. 185; p. 77.
Gas-lighter. C. Brussel. No. 1,049,045; Dec. 31; Gaz. vol. 185; p. 1260.
Gas lighter and extinguisher, Automatic. G. C. Innis. No. 1,019,159; Mar. 5; Sp. p. 337; Gaz. vol. 176; p. 53.
Gas lighter and extinguisher, Automatic valve-controlled. H. Sussmann. No. 1,014,267; Jan. 9; Sp. p. 2615; Gaz. vol. 174; p. 436.
Gas-lighter, Automatic. J. A. Nelson. No. 1,024,277; Apr. 23; Sp. p. 5405; Gaz. vol. 177; p. 946.
Gas-lighter, Electric. H. D. Grinnell. No. 1,014,461; Jan. 9; Sp. p. 3034; Gaz. vol. 174; p. 503.
Gas-lighter, Electric. H. D. Grinnell. No. 1,032,203; July 9; Gaz. vol. 180; p. 509.
Gas-lighting. P. G. de Schodt. No. 1,021,805; Apr. 2; Sp. p. 103; Gaz. vol. 177; p. 20.
Gas lighting and extinguishing apparatus, Electric. J. S. Benton. No. 1,025,047; Apr. 30; Sp. p. 7083; Gaz. vol. 177; p. 1245.
Gas-lighting apparatus. A. R. Walker. No. 1,032,791; July 16; Gaz. vol. 180; p. 754.
Gas-lighting apparatus. L. J. Bachus. No. 1,043,190; Nov. 5; Gaz. vol. 184; p. 52.
Gas-lighting burner. E. N. and E. A. Frary. No. 1,015,306; Jan. 23; Sp. p. 4889; Gaz. vol. 174; p. 847.
Gas-lighting device. T. S. Newman. No. 1,045,874; Dec. 3; Gaz. vol. 185; p. 27.
Gas-lighting device. T. J. Litle, Jr. No. 1,047,095; Dec. 10; Gaz. vol. 185; p. 487.
Gas-lighting, Manufacture of incandescence bodies for. C. R. Böhm. No. 1,020,255; Mar. 12; Sp. p. 2658; Gaz. vol. 176; p. 451.
Gas-line safety-valve. E. A. Radunz and O. Engelhardt. No. 1,035,467; Aug. 13; Gaz. vol. 181; p. 391.
Gas-liquefying apparatus, Accumulator and separator attachment for. F. C. Bell. No. 1,024,433; Apr. 23; Sp. p. 5713; Gaz. vol. 177; p. 995.
Gas-log. O. E. Hansen. No. 1,017,751; Feb. 20; Sp. p. 3315; Gaz. vol. 175; p. 593.
Gas-machines, Mechanical motor for. R. J. Walther. (Reissue.) No. 13,445; July 16; Gaz. vol. 180; p. 852.
Gas mains and holders, Safety device for. G. Baehr. No. 1,015,930; Jan. 30; Sp. p. 6240; Gaz. vol. 174; p. 1087.
Gas-making apparatus. J. H. Hirt. No. 1,037,764; Sept. 3; Gaz. vol. 182; p. 196.
Gas-making apparatus. J. M. W. Kitchen. No. 1,039,959; Oct. 1; Gaz. vol. 183; p. 96.
Gas, Making hot producer-. E. Fleischer. No. 1,041,058; Oct. 15; Gaz. vol. 183; p. 534.
Gas, Making illuminating-. L. L. Summers. No. 1,023,446; Apr. 16; Sp. p. 3614; Gaz. vol. 177; p. 641.
Gas, Making producer-. H. F. Smith. No. 1,027,290; May 21; Sp. p. 4873; Gaz. vol. 178; p. 820.
Gas-mantles, Machine for use in the manufacture of incandescent. J. I. Robin. No. 1,048,430; Dec. 24; Gaz. vol. 185; p. 1007.
Gas-mantles, Manufacture of. S. Cohn. No. 1,046,270; Dec. 3; Gaz. vol. 185; p. 164.
Gas-mantles, Package for. F. V. Bowman and W. S. Hunn. No. 1,039,486; Sept. 24; Gaz. vol. 182; p. 870.
Gas, Manufacture of. W. H. Williams. No. 1,027,681; May 28; Sp. p. 5673; Gaz. vol. 178; p. 989.
Gas, Manufacture of carbureted water-. J. M. Rusby. No. 1,030,332; June 25; Sp. p. 4959; Gaz. vol. 179; p. 884.
Gas, Manufacture of carbureted water-. A. G. Glasgow. No. 1,047,512; Dec. 17; Gaz. vol. 185; p. 67.
Gas, Manufacture of producer-. J. A. Singmaster. No. 1,033,127; July 23; Gaz. vol. 180; p. 905.

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Gas, Manufacture of water-. A. G. Glasgow. No. 1,043,822; Nov. 12; Gaz. vol. 184; p. 304.
Gas-manufacturing apparatus. H. L. Doherty. No. 1,043,304; Nov. 5; Gaz. vol. 184; p. 92.
Gas, Manufacturing carbureted hydrogen. W. J. Watkins. No. 1,019,705; Mar. 5; Sp. p. 1513; Gaz. vol. 176; p. 234.
Gas, Means for collecting average samples of. H. J. Westover. No. 1,037,695; Sept. 3; Gaz. vol. 182; p. 174.
Gas, Means for indicating the production of. H. Strache. No. 1,018,942; Feb. 27; Sp. p. 5999; Gaz. vol. 175; p. 1034.
Gas-meter. A. H. Morgan. No. 1,020,837; Mar. 19; Sp. p. 3900; Gaz. vol. 176; p. 682.
Gas-meter. C. E. Hibberd. No. 1,039,942; Oct. 1; Gaz. vol. 183; p. 90.
Gas-meter connection. M. A. Corbett. No. 1,036,076; Aug. 20; Gaz. vol. 181; p. 635.
Gas-meter header. M. Balbach. No. 1,019,119; Mar. 5; Sp. p. 245; Gaz. vol. 176; p. 39.
Gas-meter leak-detector. J. T. Lucas. No. 1,034,264; July 30; Gaz. vol. 180; p. 1318.
Gas-meter, Prepayment. H. A. Smith. No. 1,036,361; Aug. 20; Gaz. vol. 181; p. 736.
Gas-meters, Bellows for dry. G. Heeley. No. 1,036,233; Aug. 20; Gaz. vol. 181; p. 692.
Gas-meters, Flexible connection for. F. B. Mueller. No. 1,042,251; Oct. 22; Gaz. vol. 183; p. 970.
Gas-mixer. R. J. Walther. No. 1,026,135; May 14; Sp. p. 2308; Gaz. vol. 178; p. 390.
Gas-mixer. J. Prescott. No. 1,031,817; July 9; Gaz. vol. 180; p. 379.
Gas mixer and regulator. G. W. McKee. No. 1,036,133; Aug. 20; Gaz. vol. 181; p. 656.
Gas or electric light extension-fixture. C. M. Pitel. No. 1,025,537; May 7; Sp. p. 969; Gaz. vol. 178; p. 150.
Gas or smoke washer. O. M. Foster. No. 1,026,666; May 21; Sp. p. 3469; Gaz. vol. 178; p. 605.
Gas-pipe cut-off. J. J. Staley. No. 1,030,341; June 25; Sp. p. 4977; Gaz. vol. 179; p. 887.
Gas-pipe, Extensible. G. W. Thorn. No. 1,015,853; Jan. 30; Sp. p. 6081; Gaz. vol. 174; p. 1060.
Gas, Plant for the manufacture of carbureted water-. A. G. Glasgow. No. 1,047,201; Dec. 17; Gaz. vol. 185; p. 556.
Gas-producer. C. M. Garland. No. 1,014,385; Jan. 9; Sp. p. 2892; Gaz. vol. 174; p. 478.
Gas-producer. C. Rorabeck. No. 1,014,522; Jan. 9; Sp. p. 3143; Gaz. vol. 174; p. 523.
Gas-producer. W. B. Chapman. No. 1,015,296; Jan. 23; Sp. p. 4862; Gaz. vol. 174; p. 843.
Gas-producer. T. F. Fitzsimmons. No. 1,016,133; Jan. 30; Sp. p. 6673; Gaz. vol. 174; p. 1160.
Gas-producer. W. B. Hughes. No. 1,022,678; Apr. 9; Sp. p. 1961; Gaz. vol. 177; p. 340.
Gas-producer. W. R. Hüttinger. No. 1,023,567; Apr. 16; Sp. p. 3853; Gaz. vol. 177; p. 678.
Gas-producer. A. F. Matlack. No. 1,025,148; May 7; Sp. p. 77; Gaz. vol. 178; p. 14.
Gas-producer. E. A. W. Jefferies and G. H. Isley. No. 1,025,192; May 7; Sp. p. 180; Gaz. vol. 178; p. 31.
Gas-producer. A. F. Matlack. No. 1,025,198; May 7; Sp. p. 195; Gaz. vol. 178; p. 33.
Gas-producer. C. J. Atkinson. No. 1,028,524; June 4; Sp. p. 1008; Gaz. vol. 179; p. 153.
Gas-producer. J. H. Grissinger. No. 1,031,846; July 9; Gaz. vol. 180; p. 388.
Gas-producer. J. B. Nau. No. 1,033,611; July 23; Gaz. vol. 180; p. 1067.
Gas-producer. R. Daae. No. 1,034,696; Aug. 6; Gaz. vol. 181; p. 98.
Gas-producer. J. H. Hirt. No. 1,038,582; Sept. 17; Gaz. vol. 182; p. 542.
Gas-producer. W. Climie. No. 1,040,148; Oct. 1; Gaz. vol. 183; p. 160.
Gas-producer. F. Merian. No. 1,040,723; Oct. 8; Gaz. vol. 183; p. 390.
Gas-producer. C. A. Kuenzel. No. 1,042,566; Oct. 29; Gaz. vol. 183; p. 1107.
Gas-producer blower. A. B. Duff. No. 1,022,388; Apr. 2; Sp. p. 1318; Gaz. vol. 177; p. 214.
Gas-producer mechanism. F. H. Treat. No. 1,017,025; Feb. 13; Sp. p. 1761; Gaz. vol. 175; p. 307.
Gas producer, Oil-. F. H. Bates. No. 1,046,540; Dec. 10; Gaz. vol. 185; p. 297.
Gas producer or generator. A. J. Rickie. No. 1,029,084; June 11; Sp. p. 2212; Gaz. vol. 179; p. 378.
Gas-producer vaporizer. C. J. Atkinson. No. 1,018,152; Feb. 20; Sp. p. 4277; Gaz. vol. 175; p. 734.
Gas-producers and other furnaces, Charging device for. H. Bittmann. No. 1,045,768; Nov. 26; Gaz. vol. 184; p. 1040.
Gas-producers, Operating. N. Latta. No. 1,018,832; Feb. 27; Sp. p. 5781; Gaz. vol. 175; p. 998.
Gas-producers, Operating. H. L. Doherty. No. 1,043,213; Nov. 5; Gaz. vol. 184; p. 60.
Gas, Producing. F. E. Fink. No. 1,031,781; July 9; Gaz. vol. 180; p. 366.
Gas, Producing. J. H. Hirt. No. 1,039,398; Sept. 24; Gaz. vol. 182; p. 840.
Gas-producing apparatus, Hydrogen-. H. Lane. No. 1,028,366; June 4; Sp. p. 667; Gaz. vol. 179; p. 100.
Gas, Producing combustible. C. A. Kuenzel. No. 1,042,567; Oct. 29; Gaz. vol. 183; p. 1107.
Gas-producing oven. A. Gohmann. No. 1,024,128; Apr. 23; Sp. p. 5078; Gaz. vol. 177; p. 894.
Gas-producing oven, Regenerative. A. Gohmann. No. 1,039,270; Sept. 24; Gaz. vol. 182; p. 795.
Gas-purifier. H. A. Smith. No. 1,015,353; Jan. 23; Sp. p. 5002; Gaz. vol. 174; p. 863.
Gas-purifier. R. Robinson. No. 1,016,290; Feb. 6; Sp. p. 127; Gaz. vol. 175; p. 19.
Gas-purifier. W. C. Butterworth. No. 1,021,503; Mar. 26; Sp. p. 5334; Gaz. vol. 176; p. 961.
Gas-purifier. C. H. Abbott. No. 1,028,419; June 4; Sp. p. 781; Gaz. vol. 179; p. 118.
Gas purifier, Acetylene-. A. B. Cobb. No. 1,034,204; July 30; Gaz. vol. 180; p. 1295.
Gas, Purifying crude. H. Lane. No. 1,040,218; Oct. 1; Gaz. vol. 183; p. 183.
Gas-purifying plant. H. Lane. No. 1,025,918; May 7; Sp. p. 1812; Gaz. vol. 178; p. 279.
Gas, Purifying sulfurous-acid. J. Blanc. No. 1,034,574; Aug. 6; Gaz. vol. 181; p. 58.
Gas-purifying-tank tray. J. B. Larson. No. 1,033,809; July 30; Gaz. vol. 180; p. 1157.
Gas reactions and apparatus therefor, Producing endothermic. H. Grohmann. No. 1,035,873; Aug. 20; Gaz. vol. 181; p. 565.
Gas reactions by means of an electric arc, Method and apparatus for the carrying out of. G. Wagener. No. 1,039,851; Oct. 1; Gaz. vol. 183; p. 61.
Gas reactions by the use of an electric arc, Method of and apparatus for carrying out. G. Wagener. No. 1,039,852; Oct. 1; Gaz. vol. 183; p. 62.
Gas reactions, Effecting exothermic. G. Eschellmann and A. Harmuth. No. 1,036,473; Aug. 20; Gaz. vol. 181; p. 773.
Gas reactions, Process and furnace for producing. O. H. and K. Weber. No. 1,042,179; Oct. 22; Gaz. vol. 183; p. 947.
Gas-receivers, Ball-jointed cleaning device for. H. Bosenius. No. 1,023,239; Apr. 16; Sp. p. 3200; Gaz. vol. 177; p. 572.
Gas refrigerating and drying apparatus. C. H. Leinert. No. 1,039,148; Sept. 24; Gaz. vol. 182; p. 751.
Gas-regulator. A. L. Pickering. No. 1,015,975; Jan. 30; Sp. p. 6339; Gaz. vol. 174; p. 1103.
Gas-regulator. A. C. Roessler and W. A. Armington. No. 1,023,596; Apr. 16; Sp. p. 3919; Gaz. vol. 177; p. 689.
Gas-regulator. F. C. Blanchard and E. B. Crocker. No. 1,030,967; July 2; Gaz. vol. 180; p. 41.
Gas-regulator. A. L. Pickering. (Reissue.) No. 13,437; July 2; Gaz. vol. 180; p. 290.
Gas-regulator. R. W. West. No. 1,044,958; Nov. 19; Gaz. vol. 184; p. 727.
Gas-retort attachment. S. E. De Frese. No. 1,028,000; May 28; Sp. p. 6389; Gaz. vol. 178; p. 1096.
Gas-retort charging and discharging apparatus. T. Rodman, R. L. Hibbard, and H. A. Carpenter. No. 1,021,729; Mar. 26; Sp. p. 5755; Gaz. vol. 176; p. 1034.
Gas-retort discharging and charging machine. J. West. No. 1,035,287; Aug. 13; Gaz. vol. 181; p. 327.
Gas-retorts, Heating vertical. H. W. Woodall and A. M. Duckham. No. 1,031,606; July 2; Gaz. vol. 180; p. 262.
Gas-saving device. F. W. Ford. No. 1,028,105; June 4; Sp. p. 26; Gaz. vol. 179; p. 7.
Gas-separator. W. F. Green. No. 1,025,696; May 7; Sp. p. 1303; Gaz. vol. 178; p. 203.
Gas-separator. L. A. Hoffman, Jr. No. 1,048,533; Dec. 31; Gaz. vol. 185; p. 1082.
Gas shut-off, Automatic. A. R. Tracy. No. 1,019,201; Mar. 5; Sp. p. 432; Gaz. vol. 176; p. 69.
Gas, steam, and power, Method of and apparatus for generating. H. Foersterling. No. 1,015,550; Jan. 23; Sp. p. 5423; Gaz. vol. 174; p. 929.
Gas-supply plants, Regulating device for. G. Schwabach. No. 1,037,337; Sept. 3; Gaz. vol. 182; p. 52.
Gas-testing apparatus. H. W. C. Schröder, J. H. and A. B. Dräger. No. 1,033,626; July 23; Gaz. vol. 180; p. 1072.
Gas trap, Sewer-. F. E. Cudell. No. 1,027,997; May 28; Sp. p. 6384; Gaz. vol. 178; p. 1095.
Gas-treating method and apparatus. A. N. Diehl. No. 1,045,003; Nov. 19; Gaz. vol. 184; p. 742.
Gas, Treating natural. I. N. Knapp. No. 1,023,783; Apr. 16; Sp. p. 4249; Gaz. vol. 177; p. 746.
Gas-valve, Automatic. R. T. Evans and W. G. Nord. No. 1,032,194; July 9; Gaz. vol. 180; p. 505.
Gas-washer. M. W. Johnson, Jr. No. 1,034,463; Aug. 6; Gaz. vol. 181; p. 20.
Gas-washing machine. H. E. Theisen. No. 1,049,317; Dec. 31; Gaz. vol. 185; p. 1352.
Gas-washing plant. H. D. Williams and W. Ahlen. No. 1,037,095; Aug. 27; Gaz. vol. 181; p. 1015.
Gases, Absorbing nitrous. H. Pauling. No. 1,037,977; Sept. 10; Gaz. vol. 182; p. 303.
Gases and vapors, Apparatus for removing suspended matter from. H. L. Doherty. No. 1,034,215; July 30; Gaz. vol. 180; p. 1300.

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Gases, Apparatus for cleaning, cooling, and mixing. H. E. Theisen. No. 1,039,677; Sept. 24; Gaz. vol. 182; p. 937.
Gases, Apparatus for extracting or separating suspended matter from. F. W. Burstall. No. 1,018,235; Feb. 20; Sp. p. 4442; Gaz. vol. 175; p. 763.
Gases, Apparatus for producing endothermic reactions in. P. A. and C. E. Guye. No. 1,035,581; Aug. 13; Gaz. vol. 181; p. 430.
Gases, Apparatus for removing suspended liquids and solids from. H. L. Doherty. No. 1,034,216; July 30; Gaz. vol. 180; p. 1300.
Gases, Apparatus for the detection of dangerous. F. J. Turquand and W. E. Gray. No. 1,016,305; Feb. 6; Sp. p. 150; Gaz. vol. 175; p. 23.
Gases, Apparatus for washing and scrubbing. M. and J. H. White. No. 1,025,729; May 7; Sp. p. 1379; Gaz. vol. 178; p. 215.
Gases by liquids, Apparatus for absorption of dilute. I. Moscicki. No. 1,046,212; Dec. 3; Gaz. vol. 185; p. 142.
Gases, Drying agent for. L. Edeleanu. No. 1,041,608; Oct. 15; Gaz. vol. 183; p. 715.
Gases, Filtration of furnace-. F. Müller, O. Johannsen, and P. Pape. No. 1,022,496; Apr. 9; Sp. p. 1561; Gaz. vol. 177; p. 280.
Gases from the air, Extracting rare. G. Claude. No. 1,025,962; May 14; Sp. p. 1909; Gaz. vol. 178; p. 329.
Gases having a low boiling temperature in heat-engines, Employing. K. A. B. Bräuer. No. 1,025,856; May 7; Sp. p. 1630; Gaz. vol. 178; p. 258.
Gases in liquids, Apparatus for absorbing. H. L. Whiteley. No. 1,027,022; May 21; Sp. p. 4286; Gaz. vol. 178; p. 729.
Gases, Liquefaction of. G. Claude. No. 1,027,817; May 28; Sp. p. 5956; Gaz. vol. 178; p. 1034.
Gases, Means for analyzing flue-. H. H. Wilson. No. 1,023,188; Apr. 16; Sp. p. 3107; Gaz. vol. 177; p. 556.
Gases, Method and apparatus for producing chemical reactions in a mass of. A. A. Naville, P. A. and C. E. Guye. No. 1,035,723; Aug. 13; Gaz. vol. 181; p. 477.
Gases of motors, Apparatus for deodorizing the exhaust-. C. H. Phillips. No. 1,017,900; Feb. 20; Sp. p. 3720; Gaz. vol. 175; p. 647.
Gases or vapors into their liquid forms, Condensation of. F. P. Peterson. No. 1,031,664; July 2; Gaz. vol. 180; p. 283.
Gases, Purification of. F. G. Cottrell. No. 1,016,476; Feb. 6; Sp. p. 545; Gaz. vol. 175; p. 84.
Gases, Purification of. W. R. Whitney. No. 1,022,012; Apr. 2; Sp. p. 562; Gaz. vol. 177; p. 88.
Gases, Purifying. H. L. Doherty. No. 1,038,315; Sept. 10; Gaz. vol. 182; p. 414.
Gases, Refrigerating and drying. C. H. Leinert. No. 1,039,149; Sept. 24; Gaz. vol. 182; p. 751.
Gases, Removal of carbon disulfid from. E. Knoevenagel. No 1,035,972; Aug. 20; Gaz. vol. 181; p. 598.
Gases, Treating. P. G. Schmidt. No. 1,026,227; May 14; Sp. p. 2514; Gaz. vol. 178; p. 421.
Gases, Treating furnace-. U. Wedge. No. 1,039,464; Sept. 24; Gaz. vol. 182; p. 862.
Gases, Treating furnace-. U. Wedge. No. 1,046,915; Dec. 10; Gaz. vol. 185; p. 428.
Gaseous bodies, Apparatus for separating suspended particles from. F. G. Cottrell and H. A. Burns. No. 1,035,422; Aug. 13; Gaz. vol. 181; p. 376.
Gaseous fuel from liquid hydrocarbons, Means for producing. A. W. Southey. No. 1,031,881; July 9; Gaz. vol. 180; p. 402.
Gaseous-fuel mixer. A. G. Hathcock. No. 1,014,391; Jan. 9; Sp. p. 2902; Gaz. vol. 174; p. 480.
Gaseous-fuel mixer. G. T. Hanchett. No. 1,017,750; Feb. 20; Sp. p. 3314; Gaz. vol. 175; p. 593.
Gaseous-fuel mixer. W. W. Bergold. No. 1,040,853; Oct. 8; Gaz. vol. 183; p. 430.
Gaseous reaction, Apparatus for producing a. F. W. Peek, Jr. No. 1,041,340; Oct. 15; Gaz. vol. 183; p. 630.
Gasket. J. Darlington, Jr. No. 1,030,055; June 18; Sp. p. 4344; Gaz. vol. 179; p. 749.
Gasket, Coupling-. J. M. Towne. No. 1,041,907; Oct. 22; Gaz. vol. 183; p. 857.
Gasket-retainer. J. W. Ramage. No. 1,027,565; May 28; Sp. p. 5440; Gaz. vol. 178; p. 951.
Gasket-setting mechanism. A. M. Saunders. No 1,036,913; Aug. 27; Gaz. vol. 181; p. 953.
Gaskets and the like, Clamping device for. C. Forth. No. 1,035,566; Aug. 13; Gaz. vol. 181; p. 425.
Gaskets, Making. J. Merritt. No. 1,049,255; Dec. 31; Gaz. vol. 185; p. 1330.
Gaskets within metallic caps, Machine for positioning and securing. C. D. McDonald. No. 1,013,842; Jan. 2; Sp. p. 1643; Gaz. vol. 174; p. 262.
Gasolene-dispenser, Automatic. R. Toennes. No. 1,020,856; Mar. 19; Sp. p. 3952; Gaz. vol. 176; p. 688.
Gasolene-engine. F. C. Zundahl. No. 1,032,979; July 16; Gaz. vol. 180; p. 816.
Gasolene-engine. H. Collinet. No. 1,033,783; July 30; Gaz. vol. 180; p. 1147.
Gasolene-engine. L. Hoppe. No. 1,047,228; Dec. 17; Gaz. vol. 185; p. 566.
Gasolene feed-chamber. G. J. Mayer. No. 1,015,053; Jan. 16; Sp. p. 4379; Gaz. vol. 174; p. 735.
Gasolene-generator. H. C. Hanson. No. 1,027,650; May 28; Sp. p. 5602; Gaz. vol. 178; p. 978.
Gasolene-heated appliance. F. C. Binkley. No. 1,014,113; Jan. 9; Sp. p. 2291; Gaz. vol. 174; p. 382.
Gasolene, Purifying device for hydrocarbon-fuel. O. A. Benkendorf. No. 1,015,662; Jan. 23; Sp. p. 5673; Gaz. vol. 174; p. 969.
Gasolene-supply, Strainer and water-separator for. B. Ivor. No. 1,019,161; Mar. 5; Sp. p. 344; Gaz. vol. 176; p. 54.
Gasolene-supply to engines, &c., Air-pressure-creating device for. W. P. Herbert. No. 1,023,565; Apr. 16; Sp. p. 3850; Gaz. vol. 177; p. 678.
Gasolene-tanks, Filling and venting aperture for. M. Mullineux. No. 1,031,283; July 2; Gaz. vol. 180; p. 153.
Gasometer. L. Bader. No. 1,016,058; Jan. 30; Sp. p. 6520; Gaz. vol. 174; p. 1134.
Gate: *See* Automatic gate; Bridge-gate; Bridge safety-gate; Canal-gate; Crossing-gate; Elevator-gate; End-gate; Farm-gate; Farm and wagon gate; Fence-gate; Flood-gate; Flume-gate; Frameless gate; Graphophone-gate; Head-gate; Jig-gate; Railway-gate; Railway automatic gate; Railway-crossing automatic gate; Safety-gate; Sewage-diverting gate; Sliding gate; Sluice-gate; Sluice and flood gate; Swinging gate; Tender coal-gate; Tilting gate; Valve head-gate; Wagon-gate; Weir and flood gate; Wire gate.
Gate. B. J. Esser. No. 1,014,585; Jan. 9; Sp. p. 3252; Gaz. vol. 174; p. 543.
Gate. C. E. Buckhalt. No. 1,016,397; Feb. 6; Sp. p. 364; Gaz. vol. 175; p. 57.
Gate. H. Allen. No. 1,016,598; Feb. 6; Sp. p. 842; Gaz. vol. 175; p. 126.
Gate. J. H. Green. No. 1,016,824; Feb. 6; Sp. p. 1311; Gaz. vol. 175; p. 202.
Gate. J. B. Clay. No. 1,017,248; Feb. 13; Sp. p. 2272; Gaz. vol. 175; p. 386.
Gate. E. Bly. No. 1,017,499; Feb. 13; Sp. p. 2802; Gaz. vol. 175; p. 473.
Gate. J. Mills. No. 1,018,515; Feb. 27; Sp. p. 5104; Gaz. vol. 175; p. 890.
Gate. G. J. Friend. No. 1,020,488; Mar. 19; Sp. p. 3130; Gaz. vol. 176; p. 565.
Gate. P. Lingwall. No. 1,021,613; Mar. 26; Sp. p. 5548; Gaz. vol. 176; p. 996.
Gate. J. W. Ingersoll, Jr. No. 1,023,153; Apr. 16; Sp. p. 3031; Gaz. vol. 177; p. 544.
Gate. A. Polzer. No. 1,024,022; Apr. 23; Sp. p. 4818; Gaz. vol. 177; p. 856.
Gate. H. Harding. No. 1,024,400; Apr. 23; Sp. p. 5658; Gaz. vol. 177; p. 985.
Gate. J. S. Hendricks. No. 1,024,630; Apr. 30; Sp. p. 6250; Gaz. vol. 177; p. 1100.
Gate. C. Coleman. No. 1,025,370; May 7; Sp. p. 590; Gaz. vol. 178; p. 91.
Gate. A. T. D. Tothill. No. 1,025,725; May 7; Sp. p. 1369; Gaz. vol. 178; p. 213.
Gate. J. Ganzley. No. 1,025,910; May 7; Sp. p. 1794; Gaz. vol. 178; p. 276.
Gate. G. W. Kemp. No. 1,028,028; May 28; Sp. p. 6433; Gaz. vol. 178; p. 1104.
Gate. R. T. Van Valkenburg. No. 1,028,641; June 4; Sp. p. 1246; Gaz. vol. 179; p. 192.
Gate. L. Martin. No. 1,029,306; June 11; Sp. p. 2675; Gaz. vol. 179; p. 453.
Gate. R. Moore. No. 1,029,393; June 11; Sp. p. 2899; Gaz. vol. 179; p. 484.
Gate. H. C. Anderson. No. 1,030,222; June 18; Sp. p. 4684; Gaz. vol. 179; p. 805.
Gate. D. H. Padden and F. J. McAdams. No. 1,031,286; July 2; Gaz. vol. 180; p. 154.
Gate. H. G. Schenck. No. 1,031,471; July 2; Gaz. vol. 180; p. 217.
Gate. F. E. Eldredge. No. 1,032,592; July 16; Gaz. vol. 180; p. 685.
Gate. M. M. Reeder. No. 1,032,941; July 16; Gaz. vol. 180; p. 803.
Gate. F. Derosier. No. 1,035,951; Aug. 20; Gaz. vol. 181; p. 592.
Gate. A. V. Rowe. No. 1,038,443; Sept. 10; Gaz. vol. 182; p. 461.
Gate. W. H. Olive. No. 1,041,663; Oct. 15; Gaz. vol. 183; p. 736.
Gate. J. Flinner. No. 1,043,760; Nov. 5; Gaz. vol. 184; p. 251.
Gate. W. B. Homer. No. 1,044,388; Nov. 12; Gaz. vol. 184; p. 499.
Gate. R. D. Deselle. No. 1,044,632; Nov. 19; Gaz. vol. 184; p. 614.
Gate. D. Riley, Jr. No. 1,044,915; Nov. 19; Gaz. vol. 184; p. 713.
Gate. A. P. Everest. No. 1,045,537; Nov. 26; Gaz. vol. 184; p. 959.
Gate. W. Wade and M. C. Peterson. No. 1,046,350; Dec. 3; Gaz. vol. 185; p. 192.
Gate. E. M. Thebiay and J. W. Pope. No. 1,046,405; Dec. 3; Gaz. vol. 185; p. 212.
Gate. A. E. Whetstone. No. 1,046,920; Dec. 10; Gaz. vol. 185; p. 429.

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Gate. J. F. Kunkle. No. 1,047,248; Dec. 17; Gaz. vol. 185; p. 572.
Gate attachment. J. C. Munson. No. 1,043,960; Nov. 12; Gaz. vol. 184; p. 353.
Gate-closer. A. Gudmundsen. No. 1,015,436; Jan. 23; Sp. p. 5185; Gaz. vol. 174; p. 891.
Gate-closer. D. J. Nelson. No. 1,022,967; Apr. 9; Sp. p. 2599; Gaz. vol. 177; p. 441.
Gate-fastener. T. O. Emery and J. M. Day. No. 1,022,389; Apr. 2; Sp. p. 1319; Gaz. vol. 177; p. 214.
Gate-fastener. T. J. Williams. No. 1,035,505; Aug. 13; Gaz. vol. 181; p. 404.
Gate-fastener. T. Wadleigh. No. 1,036,040; Aug. 20; Gaz. vol. 181; p. 621.
Gate-fastener. A. A. Pochyla. No. 1,038,594; Sept. 17; Gaz. vol. 182; p. 671.
Gate fastener, Wire-. W. T. Bird. No. 1,042,757; Oct. 29; Gaz. vol. 183; p. 1175.
Gate-hanging. T. M. Boone. No. 1,020,019; Mar. 12; Sp. p. 2159; Gaz. vol. 176; p. 372.
Gate mechanism, Tilting-. L. Z. Preston. No. 1,014,174; Jan. 9; Sp. p. 2403; Gaz. vol. 174; p. 403.
Gate-opening device. J. Kramer. No. 1,013,185; Jan. 2; Sp. p. 187; Gaz. vol. 174; p. 33.
Gate-operating device. C. Smithson. No. 1,033,746; July 23; Gaz. vol. 180; p. 1109.
Gate-operating means. C. W. Witsil. No. 1,043,654; Nov. 5; Gaz. vol. 184; p. 216.
Gate or door lock. E. J. Tangeman. No. 1,022,981; Apr. 9; Sp. p. 2623; Gaz. vol. 177; p. 447.
Gate-retainer. E. O. Leech. No. 1,033,600; July 23; Gaz. vol. 180; p. 1063.
Gate, &c., spring. F. W. Mock. No. 1,019,822; Mar. 12; Sp. p. 1744; Gaz. vol. 176; p. 305.
Gate-stay. H. H. Clay. No. 1,044,351; Nov. 12; Gaz. vol. 184; p. 487.
Gate structure. J. J. Hines. No. 1,026,163; May 14; Sp. p. 2364; Gaz. vol. 178; p. 399.
Gear. A. B. Cadman. No. 1,015,870; Jan. 30; Sp. p. 6111; Gaz. vol. 174; p. 1065.
Gear. H. L. Hudson. No. 1,043,012; Oct. 29; Gaz. vol. 183; p. 1262.
Gear, Automatic releasing-. D. D. O'Connell. No. 1,013,510; Jan. 2; Sp. p. 915; Gaz. vol. 174; p. 146.
Gear, Automobile driving-. J. Hettrich. No. 1,032,903; July 16; Gaz. vol. 180; p. 792.
Gear-case. F. P. Maize. No. 1,048,328; Dec. 24; Gaz. vol. 185; p. 973.
Gear-casing. L. Onderdonk. No. 1,030,677; June 25; Sp. p. 5901; Gaz. vol. 179; p. 1008.
Gear, Change-speed. C. J. Paulson. No. 1,035,040; Aug. 6; Gaz. vol. 181; p. 212.
Gear-cutter, Universal. F. L. Eberhardt and W. F. Zimmermann. No. 1,028,815; June 4; Sp. p. 1599; Gaz. vol. 179; p. 250.
Gear-cutting machine. T. Fawcus. No. 1,022,625; Apr. 9; Sp. p. 1840; Gaz. vol. 177; p. 322.
Gear-cutting machine. T. Fawcus. No. 1,022,667; Apr. 9; Sp. p. 1933; Gaz. vol. 177; p. 337.
Gear-cutting machine. W. F. Zimmermann. No. 1,035,511; Aug. 13; Gaz. vol. 181; p. 406.
Gear-cutting machine. L. W. Penney. No. 1,036,322; Aug. 20; Gaz. vol. 181; p. 723.
Gear-cutting machine. H. Bilgram. (Reissue.) No. 13,502; Dec. 31; Gaz. vol. 185; p. 1355.
Gear-cutting machine, Bevel-. E. H. Browning. No. 1,040,137; Oct. 1; Gaz. vol. 183; p. 157.
Gear-cutting machine, Multiple-. F. L. Eberhardt. No. 1,030,291; June 25; Sp. p. 4852; Gaz. vol. 179; p. 869.
Gear-cutting machine or the like. W. F. Zimmermann. No. 1,033,857; July 30; Gaz. vol. 180; p. 1174.
Gear, Differential. G. M. Hartley. No. 1,020,417; Mar. 19; Sp. p. 2985; Gaz. vol. 176; p. 541.
Gear, Electromagnetic reversing-. B. Brukwicki. No. 1,044,984; Nov. 19; Gaz. vol. 184; p. 736.
Gear for reciprocating propellers, Driving-. V. Wiśniewski. No. 1,032,169; July 9; Gaz. vol. 180; p. 497.
Gear for the prevention of overwinding. J. Shaw. No. 1,017,600; Feb. 13; Sp. p. 2988; Gaz. vol. 175; p. 505.
Gear, Free-wheeling and back-pedaling. E. Sachs. No. 1,014,181; Jan. 9; Sp. p. 2415; Gaz. vol. 174; p. 405.
Gear-generating machine. F. E. Pomeroy and J. D. Harbaugh. No. 1,038,650; Sept. 17; Gaz. vol. 182; p. 565.
Gear, Hydraulic change-speed. M. Barbarou. No. 1,044,846; Nov. 19; Gaz. vol. 184; p. 688.
Gear, Hydraulic variable-speed. A. Sundh. No. 1,047,328; Dec. 17; Gaz. vol. 185; p. 604.
Gear, Link distributing-. M. Saweljew. No. 1,019,921; Mar. 12; Sp. p. 1962; Gaz. vol. 176; p. 340.
Gear mechanism. H. F. Snyder. No. 1,046,034; Dec. 3; Gaz. vol. 185; p. 80.
Gear mechanism, Change-. H. Hess. No. 1,020,095; Mar. 12; Sp. p. 2315; Gaz. vol. 176; p. 397.
Gear mechanism, Reverse-. A. B. Harrington. No. 1,029,610; June 18; Sp. p. 3339; Gaz. vol. 179; p. 595.
Gear mechanism, Reverse-. J. Ripberger. No. 1,044,421; Nov. 12; Gaz. vol. 184; p. 510.
Gear mechanism, Speed-. L. F. Goodspeed. No. 1,019,454; Mar. 5; Sp. p. 1032; Gaz. vol. 176; p. 152.
Gear mechanism, Transmission-. C. E. Frederickson. No. 1,038,553; Sept. 17; Gaz. vol. 182; p. 532.
Gear, Producing finished tempered. C. W. Parker. No. 1,042,819; Oct. 29; Gaz. vol. 183; p. 1196.
Gear-roughing machine. F. L. Eberhardt and W. F. Zimmermann. No. 1,047,926; Dec. 24; Gaz. vol. 185; p. 840.
Gear-shaping machine. E. R. Fellows. No. 1,028,343; June 4; Sp. p. 601; Gaz. vol. 179; p. 91.
Gear-shifter. A. C. Webb. No. 1,035,503; Aug. 13; Gaz. vol. 181; p. 403.
Gear-shifting mechanism. J. K. Boland. No. 1,028,532; June 4; Sp. p. 1026; Gaz. vol. 179; p. 156.
Gear, Split. S. B. Freeland. No. 1,039,375; Sept. 24; Gaz. vol. 182; p. 832.
Gear, Split. C. J. Dougherty. No. 1,041,448; Oct. 15; Gaz. vol. 183; p. 665.
Gear teeth, Hob for finishing worm-. R. J. Smith. No. 1,049,161; Dec. 31; Gaz. vol. 185; p. 1297.
Gear, Transmission-. L. W. Brown. No. 1,013,737; Jan. 2; Sp. p. 1435; Gaz. vol. 174; p. 225.
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Gear, Transmission-. W. Volkening. No. 1,043,176; Nov. 5; Gaz. vol. 184; p. 47.
Gear, Variable differential speed-. E. Draullette. No. 1,015,481; Jan. 23; Sp. p. 5291; Gaz. vol. 174; p. 907.
Gear-wheel. J. Say. No. 1,028,909; June 11; Sp. p. 1828; Gaz. vol. 179; p. 318.
Gear-wheel, Adjustable. E. A. Wall. No. 1,040,063; Oct. 1; Gaz. vol. 183; p. 131.
Gear-wheels, Cutting helical. F. L. Eberhardt and W. F. Zimmermann. No. 1,036,199; Aug. 20; Gaz. vol. 181; p. 679.
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Gear with back-pedaling brake, Free-wheel. E. Sachs. No. 1,014,180; Jan. 9; Sp. p. 2412; Gaz. vol. 174; p. 405.
Gears, Centering device for radial-draft. E. H. Schmidt. No. 1,020,389; Mar. 12; Sp. p. 2912; Gaz. vol. 176; p. 493.
Gears, Selective mechanism for shifting. A. P. Brush. No. 1,041,734; Oct. 22; Gaz. vol. 183; p. 796.
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Gearing. J. Eastwood. No. 1,014,957; Jan. 16; Sp. p. 4175; Gaz. vol. 174; p. 702.
Gearing. J. McDonald. No. 1,015,055; Jan. 16; Sp. p. 4382; Gaz. vol. 174; p. 735.
Gearing. G. O. Leopold. No. 1,015,235; Jan. 16; Sp. p. 4719; Gaz. vol. 174; p. 795.
Gearing. J. W. Pedie. No. 1,015,507; Jan. 23; Sp. p. 5334; Gaz. vol. 174; p. 915.
Gearing. A. Andri. No. 1,017,070; Feb. 13; Sp. p. 1867; Gaz. vol. 175; p. 324.
Gearing. A. J. McLendon. No. 1,017,107; Feb. 13; Sp. p. 1961; Gaz. vol. 175; p. 337.
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Gearing. A. Sundh. No. 1,017,819; Feb. 20; Sp. p. 3509; Gaz. vol. 175; p. 616.
Gearing. H. P. Reston. No. 1,018,081; Feb. 20; Sp. p. 4116; Gaz. vol. 175; p. 709.
Gearing. H. L. Staley. No. 1,020,226; Mar. 12; Sp. p. 2608; Gaz. vol. 176; p. 442.
Gearing. J. Brenzinger. No. 1,020,477; Mar. 19; Sp. p. 3109; Gaz. vol. 176; p. 561.
Gearing. J. E. Binns, Jr. No. 1,020,595; Mar. 19; Sp. p. 3379; Gaz. vol. 176; p. 600.
Gearing. A. S. Kibby. No. 1,020,913; Mar. 19; Sp. p. 4445; Gaz. vol. 176; p. 706.
Gearing. O. C. Beach and A. J. Hodge. No. 1,021,233; Mar. 26; Sp. p. 4736; Gaz. vol. 176; p. 865.
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Gearing. C. L. Libby. No. 1,021,875; Apr. 2; Sp. p. 267; Gaz. vol. 177; p. 43.
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Gearing. R. Lory. No. 1,026,100; May 14; Sp. p. 2239; Gaz. vol. 178; p. 377.

Gearing. J. Stenz. No. 1,026,184; May 14; Sp. p. 2406; Gaz. vol. 178; p. 405.
Gearing. C. T. Darby. No. 1,026,736; May 21; Sp. p. 3622; Gaz. vol. 178; p. 629.
Gearing. E. W. Blum. No. 1,028,095; June 4; Sp. p. 4; Gaz. vol. 179; p. 3.
Gearing. J. Dain. No. 1,028,441; June 4; Sp. p. 836; Gaz. vol. 179; p. 126.
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Gearing. H. Tideman. No. 1,029,959; June 18; Sp. p. 4133; Gaz. vol. 179; p. 716.
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Gearing. A. G. G. Salenius. No. 1,030,208; June 18; Sp. p. 4659; Gaz. vol. 179; p. 800.
Gearing. W. J. O. Astrup. No. 1,030,272; June 25; Sp. p. 4805; Gaz. vol. 179; p. 862.
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Gearing. J. P. Jensen. No. 1,037,921; Sept. 10; Gaz. vol. 182; p. 283.
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Gearing, Belt-. F. W. Camp. No. 1,031,106; July 2; Gaz. vol. 180; p. 91.
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Gearing, Change-speed. A. B. Landis. No. 1,017,893; Feb. 20; Sp. p. 3703; Gaz. vol. 175; p. 644.
Gearing, Change-speed. J. J. Hayes. No. 1,020,418; Mar. 19; Sp. p. 2987; Gaz. vol. 176; p. 541.
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Gearing, Change-speed. A. G. Waterhouse. No. 1,032,168; July 9; Gaz. vol. 180; p. 167.
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Gearing, Elastic variable. A. M. Allen. No. 1,026,237; May 14; Sp. p. 2536; Gaz. vol. 178; p. 425.
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Gearing for metal-working machines. J. Parker. No. 1,032,698; July 16; Gaz. vol. 180; p. 724.
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Gearing for power-presses, Drive-. E. H. Redington. No. 1,032,940; July 16; Gaz. vol. 180; p. 803.
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Gearing, Power-transmission. L. J. Campbell. No. 1,034,871; Aug. 6; Gaz. vol. 181; p. 159.
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Gearing, Speed-changing and transmission. D. P. Collins. No. 1,033,082; July 23; Gaz. vol. 180; p. 889.
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Gearing, Variable-speed. W. H. J. Hipple. No. 1,022,845; Apr. 9; Sp. p. 2341; Gaz. vol. 177; p. 400.
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Gearing, Variable-speed. C. E. Keel. No. 1,025,807; May 7; Sp. p. 1529; Gaz. vol. 178; p. 241.
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Gearing, Variable-speed-transmission. H. B. Ross. No. 1,028,078; May 28; Sp. p. 6558; Gaz. vol. 178; p. 1119.
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Gilding-tools, Appliance for supplying ribbon gold to rotary-disk. J. C. Merwin and J. W. Donovan. No. 1,029,308; June 11; Sp. p. 2679; Gaz. vol. 179; p. 454.
Gin attachment. E. A. Rozler, Sr. No. 1,018,273; Feb. 20; Sp. p. 4509; Gaz. vol. 175; p. 775.
Gin-saw. J. C. Garner. No. 1,017,637; Feb. 13; Sp. p. 3066; Gaz. vol. 175; p. 516.
Gin-saw. W. E. Moore. No. 1,042,250; Oct. 22; Gaz. vol. 183; p. 970.
Gin-saw cleaner. J. C. Shropshire. No. 1,026,129; May 14; Sp. p. 2299; Gaz. vol. 178; p. 388.
Gin-saw cleaner. H. A. Hicks. No. 1,032,334; July 9; Gaz. vol. 180; p. 554.
Gin-saw-gumming apparatus. E. O. Nevels. No. 1,049,258; Dec. 31; Gaz. vol. 185; p. 1332.
Gin-saws, Metal spacer for. H. W. Ligon. No. 1,038,911; Sept. 17; Gaz. vol. 182; p. 657.
Gin-saws, Metallic skeleton space-block for. W. R. Golden. No. 1,016,742; Feb. 6; Sp. p. 1141; Gaz. vol. 175; p. 176.
Glass: *See* Day and night glass; Gage-glass; Magnifying-glass; Opera-glass; Reading-glass; Spectacle-glass; Telescope-spectacle glass.
Glass articles, Annealing-leer for. W. R. Valentine. No. 1,025,936; May 7; Sp. p. 1849; Gaz. vol. 178; p. 285.
Glass articles, Apparatus for forming hollow. A. L. Schram. No. 1,013,452; Jan. 2; Sp. p. 790; Gaz. vol. 174; p. 126.
Glass articles, Apparatus for the manufacture of. C. C. Stutz. No. 1,037,366; Sept. 3; Gaz. vol. 182; p. 63.
Glass articles, Drawing. J. H. Lubbers. No. 1,020,920; Mar. 19; Sp. p. 4054; Gaz. vol. 176; p. 708.
Glass articles, Forming hollow. A. L. Schram. No. 1,013,451; Jan. 2; Sp. p. 788; Gaz. vol. 174; p. 126.
Glass articles, Forming hollow. K. Jung. No. 1,016,832; Feb. 6; Sp. p. 1327; Gaz. vol. 175; p. 204.
Glass articles, Making blown-. A. Kadow. No. 1,021,048; Mar. 26; Sp. p. 4340; Gaz. vol. 176; p. 805.
Glass articles, Manufacture of. C. C. Stutz. No. 1,037,364; Sept. 3; Gaz. vol. 182; p. 62.
Glass articles, Manufacture of. C. C. Stutz. No. 1,037,365; Sept. 3; Gaz. vol. 182; p. 62.
Glass articles, Mold for forming. W. J. Woods. No. 1,028,413; June 4; Sp. p. 769; Gaz. vol. 179; p. 116.
Glass-beveling machine. W. J. Porowski. No. 1,019,520; Mar. 5; Sp. p. 1176; Gaz. vol. 176; p. 175.
Glass-blowing apparatus. A. C. Wilcox. No. 1,029,779; June 18; Sp. p. 3708; Gaz. vol. 179; p. 654.
Glass-blowing machine. G. C. Crawford. No. 1,039,700; Oct. 1; Gaz. vol. 183; p. 9.
Glass-blowing machine. C. J. Nolan. No. 1,048,465; Dec. 24; Gaz. vol. 185; p. 1020.
Glass bodies, Electromagnetic carrier for. P. T. Sievert. No. 1,035,390; Aug. 13; Gaz. vol. 181; p. 366.
Glass-cleaning device, Window-. E. F. Schorndorfer. No. 1,027,359; May 21; Sp. p. 5006; Gaz. vol. 178; p. 844.
Glass cylinders, Device for severing. R. L. Frink. No. 1,024,983; Apr. 30; Sp. p. 6958; Gaz. vol. 177; p. 1223.
Glass cylinders, Machine for blowing. J. Forster. No. 1,038,335; Sept. 10; Gaz. vol. 182; p. 421.
Glass-delivering machine. L. Steelman. No. 1,021,904; Apr. 2; Sp. p. 320; Gaz. vol. 177; p. 53.
Glass, Drawing. H. F. Clark. No. 1,044,139; Nov. 12; Gaz. vol. 184; p. 413.
Glass-drawing apparatus. L. A. Thornburg. No. 1,018,643; Feb. 27; Sp. p. 5384; Gaz. vol. 175; p. 933.
Glass-drawing apparatus. A. Tuite. No. 1,020,858; Mar. 19; Sp. p. 3956; Gaz. vol. 176; p. 689.
Glass-drawing apparatus. T. Spillane. No. 1,031,883; July 9; Gaz. vol. 180; p. 402.
Glass-drawing apparatus. T. Oakes and D. Resslar. No. 1,042,956; Oct. 29; Gaz. vol. 183; p. 1242.
Glass-drawing apparatus. H. G. Slingluff. No. 1,045,901; Dec. 3; Gaz. vol. 185; p. 36.
Glass-drawing apparatus, Ring-shield and fender-ring for. M. J. Healy. No. 1,034,447; Aug. 6; Gaz. vol. 181; p. 16.
Glass-drawing apparatus, Ring-shield for. M. J. Healy. No. 1,034,445; Aug. 6; Gaz. vol. 181; p. 15.
Glass-drawing apparatus, Ring-shield for. M. J. Healy. No. 1,034,446; Aug. 6; Gaz. vol. 181; p. 15.
Glass-drawing machine, Sheet-. J. Player. No. 1,032,238; July 9; Gaz. vol. 180; p. 521.
Glass-drawing-tank attachment. M. J. Healy. No. 1,034,448; Aug. 6; Gaz. vol. 181; p. 16.
Glass drums and other hollow bodies, Process and apparatus for the manufacture of. R. Hoffmann. No. 1,021,043; Mar. 26; Sp. p. 4332; Gaz. vol. 176; p. 804.
Glass-faced tiles, Making. P. Brunet. No. 1,025,677; May 7; Sp. p. 1267; Gaz. vol. 178; p. 196.
Glass-fastener. C. W. Sego. No. 1,030,133; June 18; Sp. p. 4480; Gaz. vol. 179; p. 775.

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Glass from a container, Process and apparatus for withdrawing. C. C. Stutz. No. 1,037,362; Sept. 3; Gaz. vol. 182; p. 61.
Glass-furnace. S. B. Goff. No. 1,013,486; Jan. 2; Sp. p. 869; Gaz. vol. 174; p. 139.
Glass-furnace. V. Thenis. No. 1,027,933; May 28; Sp. p. 6248; Gaz. vol. 178; p. 1073.
Glass-furnace. G. H. Baillie. No. 1,032,177; July 9; Gaz. vol. 180; p. 499.
Glass-furnace. F. H. Gibson. No. 1,032,598; July 16; Gaz. vol. 180; p. 687.
Glass-gage cutter. E. F. Fletcher. No. 1,028,870; June 11; Sp. p. 1737; Gaz. vol. 179; p. 304.
Glass gages, &c., Washer for. E. L. Perry, Jr. No. 1,038,642; Sept. 17; Gaz. vol. 182; p. 563.
Glass-gathering furnace. H. L. Dixon and A. L. Schram. No. 1,035,865; Aug. 20; Gaz. vol. 181; p. 563.
Glass-gathering furnace. H. L. Dixon and A. L. Schram. No. 1,035,866; Aug. 20; Gaz. vol. 181; p. 563.
Glass-gathering machine. A. L. Schram. No. 1,024,228; Apr. 23; Sp. p. 5306; Gaz. vol. 177; p. 929.
Glass-gathering machine. C. C. Stutz. No. 1,037,363; Sept. 3; Gaz. vol. 182; p. 62.
Glass-gathering machine. C. E. Blue. No. 1,047,731; Dec. 17; Gaz. vol. 185; p. 744.
Glass-handling apparatus. J. A. Chambers. No. 1,016,933; Feb. 13; Sp. p. 1555; Gaz. vol. 175; p. 276.
Glass-handling apparatus. J. A. Chambers. No. 1,037,592; Sept. 3; Gaz. vol. 182; p. 139.
Glass-handling apparatus. J. E. Milliren. No. 1,038,177; Sept. 10; Gaz. vol. 182; p. 368.
Glass-handling device, Plate-. C. H. Farley. No. 1,025,692; May 7; Sp. p. 1295; Gaz. vol. 178; p. 201.
Glass-holder. W. A. Younie. No. 1,023,405; Apr. 16; Sp. p. 3532; Gaz. vol. 177; p. 629.
Glass in continuous sheets, Apparatus for the mechanical manufacture of. E. Rowart. No. 1,030,018; June 18; Sp. p. 4244; Gaz. vol. 179; p. 735.
Glass-lined can. L. R. Steel. No. 1,013,694; Jan. 2; Sp. p. 1348; Gaz. vol. 174; p. 209.
Glass-machine. J. Diffenbacher. No. 1,034,985; Aug. 6; Gaz. vol. 181; p. 195.
Glass, Manufacture of. C. E. Blue. No. 1,015,538; Jan. 23; Sp. p. 5396; Gaz. vol. 174; p. 925.
Glass, marble, and like material, Machine for cutting holes in. A. Foppiano. No. 1,048,059; Dec. 24; Gaz. vol. 185; p. 882.
Glass, &c., Means for attaching metallic fixtures to cylindrical elements of. A. Roesch. No. 1,033,196; July 23; Gaz. vol. 180; p. 929.
Glass, Method and apparatus for drawing sheet-. J. Player. No. 1,032,239; July 9; Gaz. vol. 180; p. 522.
Glass, Method and apparatus for shaping. D. L. Neuhauser. No. 1,028,129; June 4; Sp. p. 78; Gaz. vol. 179; p. 16.
Glass-mold-charging apparatus. C. E. Blue. No. 1,015,537; Jan. 23; Sp. p. 5395; Gaz. vol. 174; p. 924.
Glass-molds, Blank-reversing mechanism for. W. Henry. No. 1,046,185; Dec. 3; Gaz. vol. 185; p. 132.
Glass pane with fly-escapes, Ventilating. A. S. Grant. No. 1,014,701; Jan. 16; Sp. p. 3587; Gaz. vol. 174; p. 614.
Glass plate, Reinforced. K. Eisele. No. 1,049,065; Dec. 31; Gaz. vol. 185; p. 1266.
Glass plates and other articles, Safety-gripper for manipulating. P. C. A. Roball. No. 1,049,150; Dec. 31; Gaz. vol. 185; p. 1294.
Glass plates, Device for securing together. M. S. Crane. No. 1,043,904; Nov. 12; Gaz. vol. 184; p. 332.
Glass plates for store-fronts, &c., Device for securing together. M. S. Crane. No. 1,045,526; Nov. 26; Gaz. vol. 184; p. 956.
Glass plates, Manufacturing. P. T. Sievert. No. 1,039,829; Oct. 1; Gaz. vol. 183; p. 53.
Glass-pot. W. K. Brownlee. No. 1,016,065; Jan. 30; Sp. p. 6539; Gaz. vol. 174; p. 1136.
Glass-pot. J. B. McIntee and I. Bowman. No. 1,032,923; July 16; Gaz. vol. 180; p. 797.
Glass-pot furnace. H. E. Smythe. No. 1,016,105; Jan. 30; Sp. p. 6621; Gaz. vol. 174; p. 1151.
Glass-pot furnace. H. L. Dixon. No. 1,017,391; Feb. 13; Sp. p. 2568; Gaz. vol. 175; p. 434.
Glass-pot, Rotary. T. B. Campbell, Sr. No. 1,025,680; May 7; Sp. p. 1270; Gaz. vol. 178; p. 197.
Glass receptacles, Protective envelop for. O. Domnick. No. 1,020,269; Mar. 12; Sp. p. 2681; Gaz. vol. 176; p. 455.
Glass roof. A. Wendler. No. 1,016,118; Jan. 30; Sp. p. 6643; Gaz. vol. 174; p. 1155.
Glass sign-boards, Manufacture of. E. Bösinger. No. 1,024,551; Apr. 30; Sp. p. 6046; Gaz. vol. 177; p. 1074.
Glass structure. O. A. Mygatt. No. 1,041,329; Oct. 15; Gaz. vol. 183; p. 627.
Glass-tank. C. C. Ross. No. 1,027,282; May 21; Sp. p. 4855; Gaz. vol. 178; p. 817.
Glass-tank. M. J. Owens. No. 1,034,824; Aug. 6; Gaz vol. 181; p. 143.
Glass-tanks, Shear and interrupting device for continuous-flow. I. H. Freese. No. 1,020,409; Mar. 19; Sp. p. 2965; Gaz. vol. 176; p. 538.
Glass-working machine. B. T. Headley and M. C. Bard. No. 1,017,870; Feb. 20; Sp. p. 3632; Gaz. vol. 175; p. 634.
Glassware, Art-. L. W. Young. No. 1,041,938; Oct. 22; Gaz. vol. 183; p. 869.
Glassware-finishing machine. J. H. Deakin and H. Schnelbach. No. 1,040,902; Oct. 8; Gaz. vol. 183; p. 447.
Glassware fire-polishing apparatus. L. Levien and C. B. Duncan. No. 1,038,909; Sept. 17; Gaz. vol. 182; p. 656.
Glassware-forming mechanism. R. M. Corl. No. 1,040,280; Oct. 8; Gaz. vol. 183; p. 234.
Glassware, Forming necks for hollow. L. W. Proeger. No. 1,035,387; Aug. 13; Gaz. vol. 181; p. 365.
Glassware-handling apparatus. V. Mulholland. No. 1,016,428; Feb. 6; Sp. p. 420; Gaz. vol. 175; p. 67.
Glassware-manufacturing apparatus. J. Schies. No. 1,027,567; May 28; Sp. p. 5442; Gaz. vol. 178; p. 952.
Glassware-manufacturing machine. A. S. Reichel. No. 1,020,222; Mar. 12; Sp. p. 2594; Gaz. vol. 176; p. 441.
Glassware-manufacturing machinery. J. Schies. No. 1,046,867; Dec. 10; Gaz. vol. 185; p. 411.
Glassware, Pressed or molded ribbed. O. A. Mygatt. No. 1,042,463; Oct. 29; Gaz. vol. 183; p. 1071.
Glaziers' points, Tool for applying. J. Powers and J. G. Schofield. No. 1,028,778; June 4; Sp. p. 1526; Gaz. vol. 179; p. 238.
Globe. M. Manson. No. 1,042,456; Oct. 29; Gaz. vol. 183; p. 1068.
Globe and fixture, Self-binding. A. G. and W. J. Wray. No. 1,048,926; Dec. 31; Gaz. vol. 185; p. 1218.
Globe and globe-holder. E. E. Frederick. No. 1,029,356; June 11; Sp. p. 2795; Gaz. vol. 179; p. 471.
Globe and shade holder. W. C. Homan. No. 1,029,298; June 11; Sp. p. 2658; Gaz. vol. 179; p. 450.
Globe-holder. C. C. Armstrong. No. 1,014,433; Jan. 9; Sp. p. 2984; Gaz. vol. 174; p. 494.
Globe-holder. J. E. Martin. No. 1,029,384; June 11; Sp. p. 2859; Gaz. vol. 179; p. 481.
Globe-holder. J. E. Martin. No. 1,029,385; June 11; Sp. p. 2860; Gaz. vol. 179; p. 481.
Globe-holder. W. S. Gibbard. No. 1,033,393; July 23; Gaz. vol. 180; p. 996.
Globe-holder. J. M. Spear. No. 1,033,483; July 23; Gaz. vol. 180; p. 1024.
Globe-holder. F. M. Brooks. No. 1,036,791; Aug. 27; Gaz. vol. 181; p. 913.
Globe-holder. C. O. Marris. No. 1,037,276; Sept. 3; Gaz. vol. 182; p. 33.
Globe-holder. A. Neskovits. No. 1,046,324; Dec. 3; Gaz. vol. 185; p. 183.
Globe-holder. E. F. Rueckert. No. 1,047,709; Dec. 17; Gaz. vol. 185; p. 737.
Globes, Means for holding. A. Kusebauch. No. 1,037,779; Sept. 3; Gaz. vol. 182; p. 201.
Globes or reflectors, Holder for. E. F. Mould. No. 1,045,588; Nov. 26; Gaz. vol. 184; p. 976.
Glove. P. P. Reisenhus and V. Sutherland. No. 1,021,210; Mar. 26; Sp. p. 4673; Gaz. vol. 176; p. 857.
Glove. H. Mahieu. No. 1,037,946; Sept. 10; Gaz. vol. 182; p. 292.
Glove. R. N. Carson. No. 1,047,496; Dec. 17; Gaz. vol. 185; p. 661.
Glove, Base-ball. J. A. Peach. No. 1,026,925; May 21; Sp. p. 4048; Gaz. vol. 178; p. 695.
Glove, Base-ball. W. P. Whitley. No. 1,045,231; Nov. 26; Gaz. vol. 184; p. 851.
Glove-fastener. S. German. No. 1,047,782; Dec. 17; Gaz. vol. 185; p. 762.
Glove-fitting, Arm-rest for. J. F. Mellen. No. 1,025,476; May 7; Sp. p. 825; Gaz. vol. 178; p. 129.
Glove-former. J. K. Kellogg. No. 1,038,596; Sept. 17; Gaz. vol. 182; p. 546.
Glove or mitt, Base-ball. W. H. Fox. No. 1,017,964; Feb. 20; Sp. p. 3858; Gaz. vol. 175; p. 668.
Glove, Reversible. J. L. Casler. No. 1,027,688; May 28; Sp. p. 5689; Gaz. vol. 178; p. 991.
Glove-stretcher. R. Goltman. No. 1,048,682; Dec. 31; Gaz. vol. 185; p. 1134.
Glove, Working-. J. Churchill. No. 1,021,238; Mar. 26; Sp. p. 4745; Gaz. vol. 176; p. 866.
Glue and making the same. F. G. Perkins. No. 1,020,655; Mar. 19; Sp. p. 3505; Gaz. vol. 176; p. 619.
Glue and making the same. F. G. Perkins. (Reissue.) No. 13,436; July 2; Gaz. vol. 180; p. 288.
Glue and mucilage receptacle. O. Winkelmiller and E. C. Berners. No. 1,048,255; Dec. 24; Gaz. vol. 185; p. 947.
Glue-applying machine for use in making spirally-wound tubes. F. C. Osborn. No. 1,018,335; Feb. 20; Sp. p. 4630; Gaz. vol. 175; p. 795.
Glue-heater. E. Tyden. No. 1,013,336; Jan. 2: Sp. p. 548; Gaz. vol. 174; p. 87.
Glue joint. F. G. Perkins. No. 1,020,657; Mar. 19; Sp. p. 3514; Gaz. vol. 176; p. 620.
Glue joint. F. G. Perkins. (Reissue.) No. 13,443; July 16; Gaz. vol. 180; p. 850.
Glue, Making. F. G. Perkins. No. 1,020,656; Mar. 19; Sp. p. 3512; Gaz. vol. 176; p. 619.
Glue or gelatin, Drying. C. H. Campbell. No. 1,047,165; Dec. 17; Gaz. vol. 185; p. 542.

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Glue-spreaders, Gearing for. W. S. Craig. No. 1,025,376; May 7; Sp. p. 604; Gaz. vol. 178; p. 94.
Glue-spreading machine. C. D. Crandal. No. 1,036,802; Aug. 27; Gaz. vol. 181; p. 917.
Glues, &c., Manufacture of. J. M. Neil. No. 1,023,523; Apr. 16; Sp. p. 3763; Gaz. vol. 177; p. 665.
Gluing apparatus. L. C. Palmer. No. 1,033,266; July 23; Gaz. vol. 180; p. 954.
Glycerin, Condensing. W. Rintoul and A. G. Innes. No. 1,036,715; Aug. 27; Gaz. vol. 181; p. 888.
Go-cart. M. J. Foyer and O. Kurz. No. 1,021,589; Mar. 26; Sp. p. 5508; Gaz. vol. 176; p. 989.
Go-cart. W. Boyens. No. 1,024,176; Apr. 23; Sp. p. 5179; Gaz. vol. 177; p. 910.
Go-cart. W. E. Pugsley. No. 1,027,896; May 28; Sp. p. 6192; Gaz. vol. 178; p. 1062.
Go-cart and high chair, Folding convertible. J. W. Judge and L. W. Wright. No. 1,033,324; July 23; Gaz. vol. 180; p. 973.
Go-cart, Collapsible. O. Kurz. No. 1,035,976; Aug. 20; Gaz. vol. 181; p. 599.
Go-cart, Folding. O. Nilsson. No. 1,025,292; May 7; Sp. p. 397; Gaz. vol. 178; p. 65.
Go-cart, Folding and convertible. C. H. Beasecker. No. 1,021,964; Apr. 2; Sp. p. 461; Gaz. vol. 177; p. 73.
Go-cart handle. L. Bowling. No. 1,042,193; Oct. 22; Gaz. vol. 183; p. 951.
Go-cart or perambulator. A. J. Adams. No. 1,040,601; Oct. 8; Gaz. vol. 183; p. 346.
Go-cart or perambulator. A. J. Adams. No. 1,040,602; Oct. 8; Gaz. vol. 183; p. 346.
Go-cart runner. G. Syverson. No. 1,027,224; May 21; Sp. p. 4741; Gaz. vol. 178; p. 797.
Go-carts, Detachable runner for folding. W. H. Joy, M. H. Smith, and F. Korff. No. 1,017,417; Feb. 13; Sp. p. 2627; Gaz. vol. 175; p. 444.
Goblet, Machine to open the foot of a. J. R. Myers. No. 1,013,427; Jan. 2; Sp. p. 746; Gaz. vol. 174; p. 118.
Gold and quicksilver saving apparatus. L. Sachse. No. 1,022,110; Apr. 2; Sp. p. 756; Gaz. vol. 177; p. 121.
Gold and silver by use of cyanid solutions, Apparatus for recovering. W. L. Imlay. No. 1,014,224; Jan. 9; Sp. p. 2509; Gaz. vol. 174; p. 421.
Gold and silver from cyanid solutions, Method of and apparatus for the precipitation of. D. Bosqui. No. 1,018,604; Feb. 27; Sp. p. 5301; Gaz. vol. 175; p. 920.
Gold from clay, Extraction of. J. J. W. H. van der Toorn. No. 1,033,359; July 23; Gaz. vol. 180; p. 984.
Gold-leaf, Making imitation. J. G. Potter. No. 1,023,960; Apr. 23; Sp. p. 4706; Gaz. vol. 177; p. 835.
Gold-ore-grinding mill. J. H. Buxton. No. 1,040,876; Oct. 8; Gaz. vol. 183; p. 438.
Gold saving and amalgamating machine. R. Beyrle. No. 1,037,195; Sept. 3; Gaz. vol. 182; p. 6.
Gold-saving machine. J. M. Wishart. No. 1,030,499; June 25; Sp. p. 5328; Gaz. vol. 179; p. 944.
Gold-saving table. C. B. King and J. W. Fellmeth. No. 1,041,486; Oct. 15; Gaz. vol. 183; p. 678.
Gold-washing machine. J. M. Carter. No. 1,037,434; Sept. 3; Gaz. vol. 182; p. 87.
Golf-ball. P. A. Martin and J. Stanley. No. 1,022,248; Apr. 2; Sp. p. 1052; Gaz. vol. 177; p. 168.
Golf-ball mold. E. W. Buckau. No. 1,034,580; Aug. 6; Gaz. vol. 181; p. 60.
Golf-club. C. H. Seely. No. 1,026,181; May 14; Sp. p. 2400; Gaz. vol. 178; p. 404.
Golf-club. A. E. L. F. P. Rivers. No. 1,049,266; Dec. 31; Gaz. vol. 185; p. 1334.
Golf-clubs or similar instruments, Means for indicating the striking force of. S. O. H. Collins and H. V. Pearce. No. 1,039,491; Sept. 24; Gaz. vol. 182; p. 872.
Golf-links. Cup or hole-rim for. H. Hinckley. No. 1,041,081; Oct. 15; Gaz. vol. 183; p. 542.
Golf-practising apparatus. F. L. Connable. No. 1,023,125; Apr. 16; Sp. p. 2944; Gaz. vol. 177; p. 533.
Golf-putter. W. L. Smith. No. 1,046,343; Dec. 3; Gaz. vol. 185; p. 189.
Gong, Fluid-actuated. G. R. W. Roberts and H. H. Seely. No. 1,047,706; Dec. 17; Gaz. vol. 185; p. 735.
Gong-striking mechanism. H. J. Heeney. No. 1,024,449; Apr. 23; Sp. p. 5755; Gaz. vol. 177; p. 1001.
Goniometer, Spherical. C. B. B. Laurès. No. 1,023,858; Apr. 23; Sp. p. 4466; Gaz. vol. 177; p. 800.
Goods-rolling machines, Tape-guiding means for. A. J. Bohnengel. No. 1,034,575; Aug. 6; Gaz. vol. 181; p. 58.
Goose-grease and making same, Artificial. F. Westphal. No. 1,031,218; July 2; Gaz. vol. 180; p. 131.
Gopher-trap. A. F. Renken. No. 1,033,936; July 30; Gaz. vol. 180; p. 1203.
Governing device. W. W. Dean. No. 1,039,107; Sept. 24; Gaz. vol. 182; p. 737.
Governing internal-combustion engines. T. Rigby. No. 1,017,591; Feb. 13; Sp. p. 2972; Gaz. vol. 175; p. 502.
Governor. H. V. Hunt. No. 1,014,754; Jan. 16; Sp. p. 3699; Gaz. vol. 174; p. 631.
Governor. L. C. Loewenstein. No. 1,017,571; Feb. 13; Sp. p. 2937; Gaz. vol. 175; p. 496.
Governor. W. T. Strain. No. 1,027,221; May 21; Sp. p. 4736; Gaz. vol. 178; p. 796.
Governor. J. J. Lisch. No. 1,039,151; Sept. 24; Gaz. vol. 182; p. 752.
Governor. J. L. Osborne. No. 1,044,233; Nov. 12; Gaz. vol. 184; p. 445.
Governor. D. E. Washington. No. 1,044,313; Nov. 12; Gaz. vol. 184; p. 473.
Governor, Alarm-. G. Long. No. 1,026,099; May 14; Sp. p. 2237; Gaz. vol. 178; p. 377.
Governor attachment. J. R. Hodgen. No. 1,025,061; Apr. 30; Sp. p. 7107; Gaz. vol. 177; p. 1249.
Governor, Centrifugal. V. Link. No. 1,041,643; Oct. 15; Gaz. vol. 183; p. 728.
Governor, Driven-shaft. L. R. Smith. No. 1,030,934; July 2; Gaz. vol. 180; p. 28.
Governor, Engine-. J. W. Sargent. No. 1,020,225; Mar. 12; Sp. p. 2606; Gaz. vol. 176; p. 442.
Governor, Engine or like. J. Taylor and D. H. Evans. No. 1,029,479; June 11; Sp. p. 3064; Gaz. vol. 179; p. 514.
Governor for engines, Shaft-. R. Wolf. No. 1,038,055; Sept. 10; Gaz. vol. 182; p. 328.
Governor for explosion-engines. N. T. Harrington. No. 1,036,617; Aug. 27; Gaz. vol. 181; p. 857.
Governor for explosive-engines. L. J. Monahan. No. 1,021,879; Apr. 2; Sp. p. 278; Gaz. vol. 177; p. 45.
Governor for explosive-engines. F. C. Zumdahl. No. 1,032,978; July 16; Gaz. vol. 180; p. 815.
Governor for gas-engine valve-gears. M. O. Reeves. No. 1,047,290; Dec. 17; Gaz. vol. 185; p. 589.
Governor for gas or other engines. J. F. Bridges. No. 1,016,543; Feb. 6; Sp. p. 731; Gaz. vol. 175; p. 107.
Governor for internal-combustion engines. G. O. Tobias. No. 1,044,105; Nov. 12; Gaz. vol. 184; p. 402.
Governor for internal-combustion marine motors. A. Winton. No. 1,031,223; July 2; Gaz. vol. 180; p. 132.
Governor for power-engines and the like. H. Bursie. No. 1,044,986; Nov. 19; Gaz. vol. 184; p. 737.
Governor, High-speed emergency-. F. W. Bentley. No. 1,017,496; Feb. 13; Sp. p. 2797; Gaz. vol. 175; p. 472.
Governor, Internal-combustion-engine. P. J. Holm. No. 1,015,889; Jan. 30; Sp. p. 6158; Gaz. vol. 174; p. 1073.
Governor, Marine-engine. T. Jackson. No. 1,049,099; Dec. 31; Gaz. vol. 185; p. 1278.
Governor, Motor centrifugal. C. N. Johnson. No. 1,033,248; July 23; Gaz. vol. 180; p. 947.
Governor, Pressure-. G. M. Richards. No. 1,031,291; July 2; Gaz. vol. 180; p. 156.
Governor-regulator. M. S. Christensen. No. 1,047,747; Dec. 17; Gaz. vol. 185; p. 751.
Governor, Speed-. A. Kindberg. No. 1,029,302; June 11; Sp. p. 2665; Gaz. vol. 179; p. 452.
Governor, Steam-engine. J. C. Gaskill. No. 1,045,541; Nov. 26; Gaz. vol. 184; p. 961.
Gown, Maternity-. J. A. Herman. No. 1,043,232; Nov. 5; Gaz. vol. 184; p. 66.
Grab, Automatic. E. Kraemer. No. 1,030,191; June 18; Sp. p. 4614; Gaz. vol. 179; p. 795.
Grab-bucket. A. J. Albrecht and S. H. Conklin. No. 1,043,749; Nov. 5; Gaz. vol. 184; p. 248.
Grab for material in large pieces, Automatic. W. Ellingen. No. 1,026,573; May 14; Sp. p. 3244; Gaz. vol. 178; p. 536.
Grader. L. N. Morscher. No. 1,023,750; Apr. 16; Sp. p. 4185; Gaz. vol. 177; p. 735.
Grader and ditcher. L. M. Williams. No. 1,015,465; Jan. 23; Sp. p. 5260; Gaz. vol. 174; p. 901.
Grader and roller, Road. C. A. Landon. No. 1,017,894; Feb. 20; Sp. p. 3707; Gaz. vol. 175; p. 645.
Grader attachment, Road-. P. Chounard. No. 1,015,004; Jan. 16; Sp. p. 4278; Gaz. vol. 174; p. 718.
Grader, Land-. A. P. D'Artenay. No. 1,013,354; Jan. 2; Sp. p. 589; Gaz. vol. 174; p. 93.
Grader, Road-. J. D. and R. E. Adams. No. 1,014,989; Jan. 16; Sp. p. 4239; Gaz. vol. 174; p. 713.
Grader, Road-. A. J. Hansen. No. 1,027,725; May 28; Sp. p. 5752; Gaz. vol. 178; p. 1002.
Grader, Road-. S. S. Ladd. No. 1,035,451; Aug. 13; Gaz. vol. 181; p. 386.
Grader, Road-. C. W. Gerdes. No. 1,047,781; Dec. 17; Gaz. vol. 185; p. 761.
Grading and excavating machine, Road-. E. A. Hollenbeck. No. 1,025,569; May 7; Sp. p. 1041; Gaz. vol. 178; p. 161.
Grading-machine. E. C. Jewett. No. 1,021,047; Mar. 26; Sp. p. 4338; Gaz. vol. 176; p. 805.
Grading-machine. C. O. Wold. No. 1,023,057; Apr. 9; Sp. p. 2777; Gaz. vol. 177; p. 473.
Grading-machine. R. A. Baker. No. 1,026,018; May 14; Sp. p. 2015; Gaz. vol. 178; p. 348.
Grading-machine. G. Thomas. No. 1,033,291; July 23; Gaz. vol. 180; p. 962.
Grading-machine. R. Waterman. No. 1,041,387; Oct. 15; Gaz. vol. 183; p. 645.
Grading machine, Road-. P. L. Stacker. No. 1,023,399; Apr. 16; Sp. p. 3522; Gaz. vol. 177; p. 627.
Grading machine, Road-. O. D. Park. No. 1,028,060; May 28; Sp. p. 6508; Gaz. vol. 178; p. 1114.
Grading machine, Road-. C. Maves. No. 1,037,281; Sept. 3; Gaz. vol. 182; p. 34.

Grading, processing, and concentrating apparatus. C. B. Welch. No. 1,019,570; Mar. 5; Sp. p. 1271; Gaz. vol. 176; p. 190.
Gradometer. F. A. Bradley. No. 1,047,611; Dec. 17; Gaz. vol. 185; p. 702.
Grafting-machine. A. Robertson. No. 1,023,038; Apr. 9; Sp. p. 2728; Gaz. vol. 177; p. 466.
Grafting-tool. C. A. Priest. No. 1,042,965; Oct. 29; Gaz. vol. 183; p. 1245.
Grain and other materials, Apparatus for treating. F. B. Giesler. No. 1,025,263; May 7; Sp. p. 341; Gaz. vol. 178; p. 55.
Grain, Apparatus for removing smut from. M. Twedt. No. 1,048,767; Dec. 31; Gaz. vol. 185; p. 1163.
Grain bin or crib, Metal. B. F. Freeland. No. 1,046,456; Dec. 10; Gaz. vol. 185; p. 267.
Grain-binder. G. W. Willis. No. 1,026,841; May 21; Sp. p. 3856; Gaz. vol. 178; p. 666.
Grain-binder. B. R. Benjamin. No. 1,029,659; June 18; Sp. p. 3445; Gaz. vol. 179; p. 612.
Grain-binder butt-adjuster. J. Dangel and B. R. Benjamin. No. 1,041,968; Oct. 22; Gaz. vol. 183; p. 878.
Grain-binder knotter. J. O. Pangburn. No. 1,038,637; Sept. 17; Gaz. vol. 182; p. 562.
Grain-binder packer-arm. H. Bohlinger. No. 1,029,416; June 11; Sp. p. 2942; Gaz. vol. 179; p. 492.
Grain-binding machines, Discharging mechanism for. W. S. Koontz. No. 1,019,716; Mar. 5; Sp. p. 1533; Gaz. vol. 176; p. 238.
Grain-cleaner. E. M. Loveland. No. 1,016,424; Feb. 6; Sp. p. 413; Gaz. vol. 175; p. 65.
Grain-cleaner. T. O. Helgerson. No. 1,019,470; Mar. 5; Sp. p. 1067; Gaz. vol. 176; p. 157.
Grain, Cleaning. G. Halliday. No. 1,019,148; Mar. 5; Sp. p. 318; Gaz. vol. 176; p. 49.
Grain-cleaning machine. H. E. Walker. No. 1,020,377; Mar. 12; Sp. p. 2887; Gaz. vol. 176; p. 489.
Grain-cleaning machine. A. Wolf. No. 1,040,086; Oct. 1; Gaz. vol. 183; p. 139.
Grain-conditioning machine. J. M. Sinnett. No. 1,034,523; Aug. 6; Gaz. vol. 181; p. 41.
Grain-cradle. H. B. Hewitt. No. 1,028,215; June 4; Sp. p. 348; Gaz. vol. 179; p. 48.
Grain-drier. J. B. Cornwall. No. 1,014,122; Jan. 9; Sp. p. 2311; Gaz. vol. 174; p. 385.
Grain-drier. V. Lucas and C. Bauer. No. 1,024,408; Apr. 23; Sp. p. 5671; Gaz. vol. 177; p. 988.
Grain-drier. F. R. Morris. No. 1,028,899; June 11; Sp. p. 1809; Gaz. vol. 179; p. 314.
Grain-drying apparatus. H. J. Puckett and V. Lucas. No. 1,039,440; Sept. 24; Gaz. vol. 182; p. 853.
Grain-drill. O. G. Rieske. No. 1,017,318; Feb. 13; Sp. p. 2414; Gaz. vol. 175; p. 411.
Grain-drill. O. G. Rieske. No. 1,017,319; Feb. 13; Sp. p. 2418; Gaz. vol. 175; p. 411.
Grain-drill. W. A. Van Brunt. No. 1,018,220; Feb. 20; Sp. p. 4408; Gaz. vol. 175; p. 757.
Grain-drill. W. S. R. Thrush. No. 1,021,017; Mar. 26; Sp. p. 4275; Gaz. vol. 176; p. 794.
Grain-drill. D. A. Schutt. No. 1,021,379; Mar. 26; Sp. p. 5016; Gaz. vol. 176; p. 916.
Grain-drill. P. Broman. No. 1,022,530; Apr. 9; Sp. p. 1639; Gaz. vol. 177; p. 291.
Grain-drill. D. A. Schutt. No. 1,026,409; May 14; Sp. p. 2918; Gaz. vol. 178; p. 483.
Grain-drill. D. A. Schutt. No. 1,026,410; May 14; Sp. p. 2919; Gaz. vol. 178; p. 484.
Grain-drill. J. B. Bushnell. No. 1,031,167; July 2; Gaz. vol 180; p. 113.
Grain-drill. C. A. Pattison and L. E. Roby. No. 1,037,303; Sept. 3; Gaz. vol. 182; p. 42.
Grain-drill. L. E. Roby and C. A. Pattison. No. 1,041,166; Oct. 15; Gaz. vol. 183; p. 571.
Grain-drill. W. Fetzer. No. 1,046,755; Dec. 10; Gaz. vol. 185; p. 374.
Grain-drill frame and steering mechanism. H. L. Kern. No. 1,016,225; Jan. 30; Sp. p. 6835; Gaz. vol. 174; p. 1188.
Grain-drills, Covering-wheel for. J. E. Binns, Jr. No. 1,020,681; Mar. 19; Sp. p. 3566; Gaz. vol. 176; p. 627.
Grain-dropper. E. T. Riley. No. 1,037,319; Sept. 3; Gaz. vol. 182; p. 47.
Grain-dump, Self-locking. C. H. Ficken and L. E. Tanner. No. 1,045,962; Dec. 3; Gaz. vol. 185; p. 57.
Grain-elevator. R. L. Mapson and A. C. Wolfe. No. 1,043,619; Nov. 5; Gaz. vol. 184; p. 204.
Grain elevator and weigher. C. Bradford and G. L. Chatfield. No. 1,017,735; Feb. 20; Sp. p. 3273; Gaz. vol. 175; p. 587.
Grain-elevator cleaner attachment. J. A. Nelson. No. 1,048,091; Dec. 24; Gaz. vol. 185; p. 894.
Grain-elevator wagon-dump and conveyer mechanism. F. J. Zimmerman. No. 1,029,332; June 11; Sp. p. 2740; Gaz. vol. 179; p. 464.
Grain-handling device. H. P. Harpstrite. No. 1,031,850; July 9; Gaz. vol. 180; p. 390.
Grain hulling and scouring machine. C. Schacht. No. 1,017,326; Feb. 13; Sp. p. 2433; Gaz. vol. 175; p. 413.
Grain in bins or granaries, Apparatus for drying. G. W. Boll. No. 1,020,256; Mar. 12; Sp. p. 2659; Gaz. vol. 176; p. 451.
Grain-loader. P. J. Mulloy. No. 1,037,793; Sept. 3; Gaz. vol. 182; p. 205.
Grain-mill. A. Craig. No. 1,033,878; July 30; Gaz. vol. 180; p. 1182.
Grain or hay deliverer. H. C. Erbe. No. 1,025,794; May 7; Sp. p. 1500; Gaz. vol. 178; p. 237.
Grain or seed drier. J. C. Simmons. No. 1,043,158. Nov. 5; Gaz. vol. 184; p. 39.
Grain, pulse, and the like, Treating. C. Jaquet. No. 1,041,629; Oct. 15; Gaz. vol. 183; p. 723.
Grain-scourer. D. W. Durrett. No. 1,045,687; Nov. 26; Gaz. vol. 184; p. 1013.
Grain-separator. C. L. Wylie. No. 1,013,257; Jan. 2; Sp. p. 365; Gaz. vol. 174; p. 58.
Grain-separator. C. F. Asplund. No. 1,013,266; Jan. 2; Sp. p. 383; Gaz. vol. 174; p. 61.
Grain-separator. F. Paukert. No. 1,013,433; Jan. 2; Sp. p. 758; Gaz. vol. 174; p. 120.
Grain-separator. C. G. Thompson. No. 1,018,997; Feb. 27; Sp. p. 6136; Gaz. vol. 175; p. 1054.
Grain-separator. H. F. Hutton. No. 1,019,962; Mar. 12; Sp. p. 2041; Gaz. vol. 176; p. 353.
Grain-separator. J. H. Murray. No. 1,031,144; July 2; Gaz. vol. 180; p. 105.
Grain-separator. J. K. White. No. 1,031,154; July 2; Gaz. vol. 180; p. 108.
Grain-separator. G. Lokken. No. 1,033,426; July 23; Gaz. vol. 180; p. 1006.
Grain-separator. P. Heinz. No. 1,037,248; Sept. 3; Gaz. vol. 182; p. 25.
Grain-separator. C. Seagren. No. 1,044,086; Nov. 12; Gaz. vol. 184; p. 396.
Grain separator and cleaner. T. E. Merryfield. No. 1,032,230; July 9; Gaz. vol. 180; p. 510.
Grain-separators, Sheet-metal fish-back for. J. D. West. No. 1,027,365; May 21; Sp. p. 5023; Gaz. vol. 178; p. 846.
Grain-shocker. J. H. Sleeper and T. E. McGoffin. No. 1,020,521; Mar. 19; Sp. p. 3206; Gaz. vol. 176; p. 574.
Grain-shocker. C. W. Levine. No. 1,033,023; July 16; Gaz. vol. 180; p. 830.
Grain-shocker. P. W. Sharp. No. 1,038,449; Sept. 10; Gaz. vol. 182; p. 463.
Grain-shocker. G. D. Griffiths. No. 1,046,461; Dec. 10; Gaz. vol. 185; p. 269.
Grain-shocking device. E. Picken. No. 1,040,007; Oct. 1; Gaz. vol. 183; p. 112.
Grain-shocking machine. J. Homan. No. 1,016,628; Feb. 6; Sp. p. 920; Gaz. vol. 175; p. 137.
Grain-shredding machine. F. Regnier. No. 1,027,762; May 28; Sp. p. 5829; Gaz. vol. 178; p. 1015.
Grain sorting and cleaning apparatus. H. Seck. No. 1,036,014; Aug. 20; Gaz. vol. 181; p. 612.
Grain-sprouter. A. H. Wheat. No. 1,013,831; Jan. 2; Sp. p. 1612; Gaz. vol. 174; p. 258.
Grain-sprouter. E. H. Schwartzburg. No. 1,039,826; Oct. 1; Gaz. vol. 183; p. 52.
Grain-sprouting apparatus. E. McFarlin and A. Cline. No. 1,038,407; Sept. 10; Gaz. vol. 182; p. 447.
Grain-sprouting device. H. S. Chapin. No. 1,046,971; Dec. 10; Gaz. vol. 185; p. 446.
Grain-steeping apparatus. O. Winde. No. 1,042,739; Oct. 29; Gaz. vol. 183; p. 1168.
Grain to elongated or filament form, Reducing ground. H. D. Perky. No. 1,021,473; Mar. 26; Sp. p. 5273; Gaz. vol. 176; p. 950.
Grain, Treating. E. W. Hooker. No. 1,036,243; Aug. 20; Gaz. vol. 181; p. 696.
Grain-treating apparatus. E. B. Cox. No. 1,024,832; Apr. 30; Sp. p. 6659; Gaz. vol. 177; p. 1172.
Grain-treating machine. A. Wolf. No. 1,040,085; Oct. 1; Gaz. vol. 183; p. 138.
Grain, Treatment of. J. G. F. Dombach. No. 1,040,290; Oct. 8; Gaz. vol. 183; p. 237.
Grain-washing machine. W. Rowlandson. No. 1,048,888; Dec. 31; Gaz. vol. 185; p. 1205.
Graining-tool. W. J. Knapp. No. 1,037,639; Sept. 3; Gaz. vol. 182; p. 155.
Gramophone, phonograph, and like horn. J. Green. No. 1,047,789; Dec. 17; Gaz. vol. 185; p. 764.
Gramophone-record. C. L. Rotheudt. No. 1,046,650; Dec. 10; Gaz. vol. 185; p. 336.
Gramophone-record holder. R. B. Lewis. No. 1,044,200; Nov. 12; Gaz. vol. 184; p. 435.
Gramophones, &c., Producing horns for. E. Nier. No. 1,038,942; Sept. 17; Gaz. vol. 182; p. 668.
Granular material, Machine for sizing and separating. B. A. Hughes. No. 1,039,132; Sept. 24; Gaz. vol. 182; p. 745.
Granular materials, Apparatus for treating. A. A. Lanaux. No. 1,042,929; Oct. 29; Gaz. vol. 183; p. 1233.
Grape-juice and other fluids, Apparatus for handling. F. J. Walker, Jr. No. 1,049,180; Dec. 31; Gaz. vol. 185; p. 1303.
Graphic recorder. C. B. Thwing. No. 1,046,680; Dec. 10; Gaz. vol. 185; p. 347.

Alphabetical list of inventions—Continued.

Graphite metal and producing it. R. T. Cole. No. 1,022,465; Apr. 9; Sp. p. 1508; Gaz. vol. 177; p. 270.
Graphophone-gate. E. Roos. No. 1,042,275; Oct. 22; Gaz. vol. 183; p. 978.
Graphophone of the disk-record type, Automatic. J. I. Gemill. No. 1,028,707; June 4; Sp. p. 1362; Gaz. vol. 179; p. 213.
Graphophone-record album. W. Baker. No. 1,032,644; July 16; Gaz. vol. 180; p. 704.
Graphophone-reproducer. V. H. Emerson. No. 1,026,084; May 14; Sp. p. 2208; Gaz. vol. 178; p. 372.
Grapple. E. Mitchell. No. 1,015,057; Jan. 16; Sp. p. 4386; Gaz. vol. 174; p. 736.
Grapple. C. B. Jones. No. 1,031,270; July 2; Gaz. vol. 180; p. 149.
Grapple. F. A. Alfvegren. No. 1,037,712; Sept. 3; Gaz. vol. 182; p. 180.
Grapple. M. W. Gilmartin. No. 1,039,727; Oct. 1; Gaz. vol. 183; p. 19.
Grapple. C. W. Greenhalgh. No. 1,041,068; Oct. 15; Gaz. vol. 183; p. 538.
Grass-clipper. O. Karcher. No. 1,032,485; July 16; Gaz. vol. 180; p. 649.
Grass-collector. W. Ross. No. 1,032,180; July 9; Gaz. vol. 180; p. 501.
Grass-cutter for cutting edges of lawns and the like. H. Irwin. No. 1,026,985; May 21; Sp. p. 4196; Gaz. vol. 178; p. 716.
Grass-cutting machine. H. S. Mustin. No. 1,013,209; Jan. 2; Sp. p. 243; Gaz. vol. 174; p. 41.
Grass destroyer, Quaking-. P. Meyer. No. 1,018,513; Feb. 27; Sp. p. 5100; Gaz. vol. 175; p. 889.
Grass digger, Quack-. L. E. Guidinger. No. 1,027,125; May 21; Sp. p. 4549; Gaz. vol. 178; p. 764.
Grass-gathering machine. F. E. Waite. No. 1,030,950; July 2; Gaz. vol. 180; p. 34.
Grass-hook, corn-knife, and pruning-saw, Combined. A. A. Bates. No. 1,021,444; Mar. 26; Sp. p. 5198; Gaz. vol. 176; p. 940.
Grass-scalding apparatus. W. C. Key. No. 1,042,688; Oct. 29; Gaz. vol. 183; p. 1151.
Grasshopper-destroyer. C. F. McMullen. No. 1,014,890; Jan. 16; Sp. p. 4020; Gaz. vol. 174; p. 679.
Grasshopper-exterminator. D. R. Kinney. No. 1,040,549; Oct. 8; Gaz. vol. 183; p. 327.
Grate. E. C. Wiley. No. 1,015,527; Jan. 23; Sp. p. 5377; Gaz. vol. 174; p. 921.
Grate. T. V. Elliott. No. 1,018,352; Feb. 20; Sp. p. 4659; Gaz. vol. 175; p. 801.
Grate. R. W. Revell. No. 1,019,837; Mar. 12; Sp. p. 1767; Gaz. vol. 176; p. 310.
Grate. J. C. Quinn. No. 1,021,556; Mar. 26; Sp. p. 5435; Gaz. vol. 176; p. 978.
Grate. D. Dee. No. 1,026,152; May 14; Sp. p. 2344; Gaz. vol. 178; p. 396.
Grate. C. W. Foster. No. 1,028,012; May 28; Sp. p. 6408; Gaz. vol. 178; p. 1099.
Grate. O. H. Krueger. No. 1,028,943; June 11; Sp. p. 1903; Gaz. vol. 179; p. 329.
Grate. F. S. Livingston. No. 1,030,002; June 18; Sp. p. 4211; Gaz. vol. 179; p. 730.
Grate. T. W. Nicol. No. 1,030,528; June 25; Sp. p. 5434; Gaz. vol. 179; p. 955.
Grate. F. W. Sturdevant. No. 1,036,928; Aug. 27; Gaz vol. 181; p. 958.
Grate. W. E. Rider. No. 1,042,036; Oct. 22; Gaz. vol. 183; p. 901.
Grate. F. Germon. No. 1,045,276; Nov. 26; Gaz. vol. 184; p. 866.
Grate. F. Kröpelin. No. 1,046,087; Dec. 3; Gaz. vol. 185; p. 99.
Grate. S. G. Mecklem and G. C. Brinkman. No. 1,046,625; Dec. 10; Gaz. vol. 185; p. 327.
Grate. S. Smyth. No. 1,046,882; Dec. 10; Gaz. vol. 185; p. 416.
Grate and burner, Combination. J. A. Stephens and W. J. Shenk. No. 1,016,236; Jan. 30; Sp. p. 6860; Gaz. vol. 174; p. 1192.
Grate and stove, Combination. B. B. Bowers. No. 1,032,270; July 9; Gaz. vol. 180; p. 532.
Grate and stove heater attachment. T. C. Walker. No. 1,026,007; May 14; Sp. p. 1999; Gaz. vol. 178; p. 344.
Grate-bar. D. Dee. No. 1,017,653; Feb. 20; Sp. p. 3097; Gaz. vol. 175; p. 560.
Grate-bar. G. L. Hoffer. No. 1,030,303; June 25; Sp. p. 4882; Gaz. vol. 179; p. 873.
Grate-bar. W. M. Ross. No. 1,033,736; July 23; Gaz. vol. 180; p. 1106.
Grate-bars, Manufacturing. L. and P. David. No. 1,022,773; Apr. 9; Sp. p. 2193; Gaz. vol. 177; p. 376.
Grate, Chain. J. Rademacher. No. 1,028,276; June 4; Sp. p. 464; Gaz. vol. 179; p. 68.
Grate, Chain. W. M. Duncan. No. 1,048,053; Dec. 24; Gaz. vol. 185; p. 880.
Grate-cleaner. C. F. Pierce and S. C. Byrd. No. 1,039,184; Sept. 24; Gaz. vol. 182; p. 763.
Grate, Combination gas and coal. M. L. Scanlon. No. 1,043,871; Nov. 12; Gaz. vol. 184; p. 320.
Grate, Crossing-. G. W. Engle. No. 1,035,695; Aug. 13; Gaz. vol. 181; p. 467.
Grate, Fire-box. F. B. Bigelow. No. 1,013,114; Jan. 2; Sp. p. 42; Gaz. vol. 174; p. 9.
Grate, Gas-. E. G. Van Zandt. No. 1,045,466; Nov. 26; Gaz. vol. 184; p. 933.
Grate-hook. A. W. Baker. No. 1,032,980; July 16; Gaz. vol. 180; p. 816.
Grate mechanism and clearing means therefor. W. Pohl. No. 1,041,344; Oct. 15; Gaz. vol. 183; p. 631.
Grate, Open. W. Thomas. No. 1,013,330; Jan. 2; Sp. p. 537; Gaz. vol. 174; p. 85.
Grate-protector. W. A. Baker. No. 1,044,970; Nov. 19; Gaz. vol. 184; p. 731.
Grater. G. C. Weidenhammer. No. 1,033,642; July 23; Gaz. vol. 180; p. 1077.
Grating. J. Watson. No. 1,035,927; Aug. 20; Gaz. vol. 181; p. 584.
Grating machine, Fruit-. J. W. Cheney. No. 1,021,969; Apr. 2; Sp. p. 469; Gaz. vol. 177; p. 75.
Grating, Reticulated wrought-iron. G. A. Keller. No. 1,045,795; Nov. 26; Gaz. vol. 184; p. 1049.
Grave-digger's dirt-receptacle. P. P. Mills. No. 1,033,722; July 23; Gaz. vol. 180; p. 1101.
Grave-filler. L. G. Ward. No. 1,041,921; Oct. 22; Gaz. vol. 183; p. 862.
Graver. J. J. Wilson. No. 1,042,738; Oct. 29; Gaz. vol. 183; p. 1168.
Gravers, Holder for sharpening. O. W. Dreyer. No. 1,034,595; Aug. 6; Gaz. vol. 181; p. 64.
Gravity-carrier. H. J. Buck. No. 1,022,823; Apr. 9; Sp. p. 2296; Gaz. vol. 177; p. 392.
Gravity-carrier. F. E. Moore. No. 1,028,589; June 4; Sp. p. 1146; Gaz. vol. 179; p. 174.
Gravity-lock. J. H. Carlstedt. No. 1,028,860; June 11; Sp. p. 1710; Gaz. vol. 179; p. 300.
Gravity-lock, Automatic. F. D. Patten. No. 1,030,848; June 25; Sp. p. 6431; Gaz. vol. 179; p. 1071.
Gravity-motor. G. S. Welling. No. 1,026,727; May 21; Sp. p. 3602; Gaz. vol. 178; p. 626.
Grease and lubricant cups, Cap for. G. E. Bowen. No. 1,040,266; Oct. 8; Gaz. vol. 183; p. 228.
Grease and oil extracting apparatus. C. Edgerton. No. 1,017,518; Feb. 13; Sp. p. 2841; Gaz. vol. 175; p. 479.
Grease and oil extracting apparatus. C. Edgerton. No. 1,024,838; Apr. 30; Sp. p. 6674; Gaz. vol. 177; p. 1174.
Grease-cup. G. W. Bowen. No. 1,024,673; Apr. 30; Sp. p. 6328; Gaz. vol. 177; p. 1115.
Grease-cup. H. B. Sherman and F. Perkins. No. 1,025,319; May 7; Sp. p. 481; Gaz. vol. 178; p. 74.
Grease-cup. J. B. Hall. No. 1,027,538; May 28; Sp. p. 5378; Gaz. vol. 178; p. 942.
Grease-cup. O. Zerk. No. 1,029,412; June 11; Sp. p. 2936; Gaz. vol. 179; p. 491.
Grease-cup. O. Zerk. No. 1,031,409; July 2; Gaz. vol. 180; p. 197.
Grease-cup. C. G. Ritter and J. J. Aull. No. 1,031,734; July 9; Gaz. vol. 180; p. 350.
Grease-cup. J. W. Altick. No. 1,032,318; July 9; Gaz. vol. 180; p. 548.
Grease-cup. T. Lowe. No. 1,039,980; Oct. 1; Gaz. vol. 183; p. 103.
Grease-cup. R. Hickish. No. 1,043,234; Nov. 5; Gaz. vol. 184; p. 67.
Grease-cup. O. Zerk. No. 1,043,558; Nov. 5; Gaz. vol. 184; p. 184.
Grease-cup. G. W. Bowen. No. 1,046,051; Dec. 3; Gaz. vol. 185; p. 86.
Grease-cup. G. M. Joseph. No. 1,047,068; Dec. 10; Gaz. vol. 185; p. 477.
Grease-cup. O. Zerk. No. 1,049,027; Dec. 31; Gaz. vol. 185; p. 1253.
Grease-cup, Automatic. J. F. Lewis. No. 1,015,626; Jan. 23; Sp. p. 5589; Gaz. vol. 174; p. 958.
Grease-cup cap-securing means. N. Morgan. No. 1,039,781; Oct. 1; Gaz. vol. 183; p. 38.
Grease-cup, Compression-locking. O. E. Risser and P. E. McSweeney. No. 1,033,828; July 30; Gaz. vol. 180; p. 1164.
Grease-cup-filling attachment. M. G. Brown. No. 1,027,588; May 28; Sp. p. 5483; Gaz. vol. 178; p. 959.
Grease-cup or lubricator, Locking. T. A. Walker. No. 1,033,362; July 23; Gaz. vol. 180; p. 986.
Grease-cup plug. G. H. Hudson. No. 1,022,317; Apr. 2; Sp. p. 1174; Gaz. vol. 177; p. 188.
Grease-dispensing apparatus. T. L. Newton. No. 1,015,395; Jan. 23; Sp. p. 5094; Gaz. vol. 174; p. 878.
Grease-gun. H. H. Colson. No. 1,040,513; Oct. 8; Gaz. vol. 183; p. 314.
Grease-gun. H. C. Snyder and C. Reed. No. 1,041,524; Oct. 15; Gaz. vol. 183; p. 691.
Grease-gun. W. P. Miller. No. 1,041,840; Oct. 22; Gaz. vol. 183; p. 834.
Grease-gun. W. U. Watson. No. 1,042,627; Oct. 29; Gaz. vol. 183; p. 1129.
Grease-gun closure. J. F. Craven. No. 1,036,967; Aug. 27; Gaz. vol. 181; p. 971.
Grease-paint, burnt cork, &c., from the face. Compound for removing. E. J. M. Hart. No. 1,029,118; June 11; Sp. p. 2277; Gaz. vol. 179; p. 389.
Grease to rolls, Device for applying. P. A. McGowan. No. 1,021,062; Mar. 26; Sp. p. 4367; Gaz. vol. 176; p. 810.

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Greaser, Buggy or wagon. W. T. Maddox. No. 1,038,917; Sept. 17; Gaz. vol. 182; p. 659.
Greenhouse. R. D. Kline. No. 1,035,605; Aug. 13; Gaz. vol. 181; p. 438.
Greenhouse. C. Ickes. No. 1,045,847; Dec. 3; Gaz. vol. 185; p. 18.
Greenhouse-bench. M. Winandy. No. 1,022,616; Apr. 9; Sp. p. 1826; Gaz. vol. 177; p. 319.
Greenhouse construction. M. I. Jacobs. No. 1,022,947; Apr. 9; Sp. p. 2562; Gaz. vol. 177; p. 435.
Greenhouse-gutter. M. I. Jacobs. No. 1,022,948; Apr. 9; Sp. p. 2563; Gaz. vol. 177; p. 435.
Grenade. E. Sokolowski. No. 1,035,486; Aug. 13; Gaz. vol. 181; p. 398.
Grid resistance. F. L. Sessions. No. 1,031,382; July 2; Gaz. vol. 180; p. 186.
Grid resistance, Reinforced. H. J. Wiegand. No. 1,038,252; Sept. 10; Gaz. vol. 182; p. 394.
Grille-work or grating, Electrically-protected. J. P. Williams and H. Huhn. No. 1,027,679; May 28; Sp. p. 5666; Gaz. vol. 178; p. 987.
Grinder, Disk. F. N. and F. E. Gardner. No. 1,013,760; Jan. 2; Sp. p. 1480; Gaz. vol. 174; p. 234.
Grinder, Disk. J. Miller, Jr. No. 1,029,882; June 18; Sp. p. 3969; Gaz. vol. 179; p. 690.
Grinder, Drill-. A. C. Vauclain. No. 1,020,860; Mar. 19; Sp. p. 3961; Gaz. vol. 176; p. 690.
Grinder, Face-mill. G. W. Smith. No. 1,039,075; Sept. 17; Gaz. vol. 182; p. 707.
Grinder, Mower-sickle. J. H. Irey. No. 1,019,649; Mar. 5; Sp. p. 1414; Gaz. vol. 176; p. 217.
Grinder, Sickle-. W. S. Harman. No. 1,037,902; Sept. 10; Gaz. vol. 182; p. 276.
Grinding and buffing wheel. L. H. Brinkman. No. 1,023,807; Apr. 23; Sp. p. 4328; Gaz. vol. 177; p. 783.
Grinding and like machine. A. A. Scott. No. 1,026,610; May 14; Sp. p. 3323; Gaz. vol. 178; p. 549.
Grinding and polishing machine. W. F. Miller. No. 1,025,417; May 7; Sp. p. 679; Gaz. vol. 178; p. 107.
Grinding and polishing machine. J. C. Blevney. No. 1,043,194; Nov. 5; Gaz. vol. 184; p. 53.
Grinding and polishing machine. W. J. Carney. No. 1,045,945; Dec. 3; Gaz. vol. 185; p. 51.
Grinding and polishing rolls, Apparatus for. M. H. Richards. No. 1,040,759; Oct. 8; Gaz. vol. 183; p. 401.
Grinding balls. A. E. Greene. No. 1,026,351; May 14; Sp. p. 2792; Gaz. vol. 178; p. 464.
Grinding balls or spheres, Machine for. L. J. Crecelius. No. 1,020,803; Mar. 19; Sp. p. 3825; Gaz. vol. 176; p. 670.
Grinding-bur. H. G. McCulloch. No. 1,026,818; May 21; Sp. p. 3793; Gaz. vol. 178; p. 657.
Grinding device for sharpening knives of jointing or planing machines, Portable. H. B. Foley and J. F. Tracey. No. 1,038,500; Sept. 10; Gaz. vol. 182; p. 479.
Grinding device, Gear-. R. B. Weaver. No. 1,017,612; Feb. 13; Sp. p. 3007; Gaz. vol. 175; p. 508.
Grinding device, Gear-. R. B. Weaver. No. 1,032,974; July 16; Gaz. vol. 180; p. 814.
Grinding-gage. J. A. Johnson. No. 1,040,687; Oct. 8; Gaz. vol. 183; p. 379.
Grinding gears. R. B. Weaver. No. 1,017,613; Feb. 13; Sp. p. 3009; Gaz. vol. 175; p. 509.
Grinding helical concave surfaces in blades, Support for work-pieces for. C. A. Kirschner. No. 1,039,294; Sept. 24; Gaz. vol. 182; p. 804.
Grinding lawn-mowers, Machine for. W. J. Mandley. No. 1,043,948; Nov. 12; Gaz. vol. 184; p. 348.
Grinding-machine. O. J. Johnson. No. 1,014,306; Jan. 9; Sp. p. 2694; Gaz. vol. 174; p. 450.
Grinding-machine. A. B. Landis. No. 1,015,567; Jan. 23; Sp. p. 5463; Gaz. vol. 174; p. 936.
Grinding-machine. P. A. Solem. No. 1,016,585; Feb. 6; Sp. p. 815; Gaz. vol. 175; p. 122.
Grinding-machine. A. B. Landis. No. 1,016,751; Feb. 6; Sp. p. 1153; Gaz. vol. 175; p. 179.
Grinding-machine. A. B. Landis. No. 1,017,879; Feb. 20; Sp. p. 3659; Gaz. vol. 175; p. 638.
Grinding-machine. A. B. Landis. No. 1,017,880; Feb. 20; Sp. p. 3662; Gaz. vol. 175; p. 638.
Grinding-machine. A. B. Landis. No. 1,017,881; Feb. 20; Sp. p. 3665; Gaz. vol. 175; p. 638.
Grinding-machine. A. B. Landis. No. 1,018,392; Feb. 20; Sp. p. 4767; Gaz. vol. 175; p. 816.
Grinding-machine. A. B. Landis. No. 1,018,395; Feb. 20; Sp. p. 4776; Gaz. vol. 175; p. 817.
Grinding-machine. A. B. Fowler. No. 1,019,887; Mar. 12; Sp. p. 1880; Gaz. vol. 176; p. 329.
Grinding-machine. C. R. Carpenter. No. 1,022,224; Apr. 2; Sp. p. 995; Gaz. vol. 177; p. 160.
Grinding-machine. S. D. Olsen. No. 1,023,389; Apr. 16; Sp. p. 3500; Gaz. vol. 177; p. 624.
Grinding-machine. W. F. Cremean. No. 1,026,022; May 14; Sp. p. 2021; Gaz. vol. 178; p. 349.
Grinding-machine. H. V. Joseph. No. 1,030,186; June 18; Sp. p. 4606; Gaz. vol. 179; p. 793.
Grinding-machine. J. A. Hunter. No. 1,031,934; July 9; Gaz. vol. 180; p. 419.
Grinding-machine. G. Kündig. No. 1,032,686; July 16; Gaz. vol. 180; p. 710.
Grinding-machine. W. D. Gherky and J. E. Allen. No. 1,032,750; July 16; Gaz. vol. 180; p. 741.
Grinding-machine. G. W. Hoadley. No. 1,033,586; July 23; Gaz. vol. 180; p. 1058.
Grinding-machine. H. B. Nichols. (Reissue.) No. 13,451; July 30; Gaz. vol. 180; p. 1369.
Grinding-machine. H. B. Nichols. No. 1,035,129; Aug. 6; Gaz. vol. 181; p. 242.
Grinding-machine. H. B. Nichols. No. 1,035,131; Aug. 6; Gaz. vol. 181; p. 242.
Grinding-machine. J. Bath. No. 1,036,543; Aug. 27; Gaz. vol. 181; p. 831.
Grinding-machine. J. Bath. No. 1,036,544; Aug. 27; Gaz. vol. 181; p. 831.
Grinding-machine. W. Van Nostrand. No. 1,040,470; Oct. 8; Gaz. vol. 183; p. 298.
Grinding-machine. P. H. Root. No. 1,044,575; Nov. 19; Gaz. vol. 184; p. 594.
Grinding-machine. O. R. H. Zeitz. No. 1,045,243; Nov. 26; Gaz. vol. 184; p. 855.
Grinding-machine. G. I. Alden No. 1,048,634; Dec. 31; Gaz. vol. 185; p. 1116.
Grinding-machine. J. E. Vogt. No. 1,048,769; Dec. 31; Gaz. vol. 185; p. 1163.
Grinding-machine-adjusting device, Rotary-. A. Wagner. No. 1,035,925; Aug. 20; Gaz. vol. 181; p. 583.
Grinding machine, Ball-. F. Beemer. No. 1,014,747; Jan. 16; Sp. p. 3686; Gaz. vol. 174; p. 629.
Grinding machine, Ball-. A. E. Greene. No. 1,026,350; May 14; Sp. p. 2782; Gaz. vol. 178; p. 464.
Grinding machine, Ball-. B. Eitner. No. 1,036,590; Aug. 27; Gaz. vol. 181; p. 848.
Grinding machine, Ball-. J. G. Irwin. No. 1,042,794; Oct. 29; Gaz. vol. 183; p. 1188.
Grinding machine, Blade-. J. P. Guppey. No. 1,034,362; July 30; Gaz. vol. 180; p. 1352.
Grinding-machine, Cylindrical. C. H. Norton. No. 1,045,877; Dec. 3; Gaz. vol. 185; p. 28.
Grinding machine, Drill-. A. Mill, Sr. and Jr. No. 1,016,891; Feb. 6; Sp. p. 1441; Gaz. vol. 175; p. 224.
Grinding-machine, Emery. N. W. Kelder. No. 1,046,801; Dec. 10; Gaz. vol. 185; p. 390.
Grinding machine, Hole-. G. K. Garvin and E. J. McClellan. No. 1,026,389; May 14; Sp. p. 2870; Gaz. vol. 178; p. 476.
Grinding machine, Roller-. O. A. Schmidt. No. 1,018,930; Feb. 27; Sp. p. 5975; Gaz. vol. 175; p. 1030.
Grinding-machine runner. J. G. Jackson. No. 1,013,777; Jan. 2; Sp. p. 1515; Gaz. vol. 174; p. 240.
Grinding machine, Tool, &c. T. Lumsden. No. 1,032,758; July 16; Gaz. vol. 180; p. 744.
Grinding-machines, Adjusting device for rotary. A. Wagner. No. 1,044,308; Nov. 12; Gaz. vol. 184; p. 472.
Grinding-machines, Multiple steady-rest for. C. H. Norton. No. 1,045,876; Dec. 3; Gaz. vol. 185; p. 28.
Grinding machinery. H. C. Williamson. No. 1,046,527; Dec. 10; Gaz. vol. 185; p. 293.
Grinding-mill. R. A. Reynolds. No. 1,015,586; Jan. 23; Sp. p. 5513; Gaz. vol. 174; p. 943.
Grinding-mill. E. C. Johnson. No. 1,016,272; Feb. 6; Sp. p. 63; Gaz. vol. 175; p. 13.
Grinding-mill. E. C. Griffin. No. 1,020,092; Mar. 12; Sp. p. 2309; Gaz. vol. 176; p. 396.
Grinding-mill. C. J. Regan. No. 1,020,712; Mar. 19; Sp. p. 3638; Gaz. vol. 176; p. 640.
Grinding-mill. J. B. Hoop. No. 1,021,191; Mar. 26; Sp. p. 4639; Gaz. vol. 176; p. 850.
Grinding-mill. W. R. Cunningham. No. 1,028,550; June 4; Sp. p. 1054; Gaz. vol. 179; p. 161.
Grinding-mill. W. P. Carson and J. J. Hubbard. No. 1,028,839; June 4; Sp. p. 1654; Gaz. vol. 179; p. 258.
Grinding-mill. G. S. Emerick. No. 1,028,867; June 11; Sp. p. 1728; Gaz. vol. 179; p. 302.
Grinding-mill. M. E. Rozelle. No. 1,034,034; July 30; Gaz. vol. 180; p. 1239.
Grinding-mill. A. L. Bausman. No. 1,035,304; Aug. 13; Gaz. vol. 181; p. 335.
Grinding-mill. J. C. Dell. No. 1,043,513; Nov. 5; Gaz. vol. 184; p. 168.
Grinding-mill. R. A. Reynolds. No. 1,046,019; Dec. 3; Gaz. vol. 185; p. 74.
Grinding-mill. H. G. Thiesing. No. 1,046,678; Dec. 10; Gaz. vol. 185; p. 346.
Grinding-mill crusher-head. H. A. Hunt. No. 1,026,319; May 14; Sp. p. 2706; Gaz. vol. 178; p. 453.
Grinding-mill crusher-head. E. S. Black. No. 1,028,530; June 4; Sp. p. 1023; Gaz. vol. 179; p. 155.
Grinding-mill feeding device. A. W. Straub. No. 1,039,610; Sept. 24; Gaz. vol. 182; p. 914.
Grinding mill, Grain-. J. Beall. No. 1,041,950; Oct. 22; Gaz. vol. 183; p. 871.
Grinding-mills, Roll-adjusting device for roller. A. R. Tattersall. No. 1,037,838; Sept. 3; Gaz. vol. 182; p. 220.
Grinding or abrading machine. H. W. Newman. No. 1,042,817; Oct. 29; Gaz. vol. 183; p. 1195.
Grinding ores and other materials, Apparatus for. H. W. Hardinge. No. 1,041,783; Oct. 22; Gaz. vol. 183; p. 814.
Grinding rollers, &c., Machine for. J. Kirner. No. 1,033,021; July 16; Gaz. vol. 180; p. 830.

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Grinding-stones, Bur for dressing. T. E. Warren. No. 1,037,692; Sept. 3; Gaz. vol. 182; p. 174.
Grinding the contact-surfaces of carbon brushes for dynamos and the like, Machine for. A. Watkins. No. 1,019,287; Mar. 5; Sp. p. 628; Gaz. vol. 176; p. 98.
Grinding top-flats, Apparatus for. J. T. Wild. No. 1,031,895; July 9; Gaz. vol. 180; p. 406.
Grinding-wheel guard. W. Stone. No. 1,042,618; Oct. 29; Gaz. vol. 183; p. 1127.
Grindstone. J. Barnette. No. 1,049,037; Dec. 31; Gaz. vol. 185; p. 1257.
Grindstone, Artificial. O. Schmidt. No. 1,044,261; Nov. 12; Gaz. vol. 184; p. 455.
Grindstone attachment. F. W. Eggers. No. 1,028,693; June 4; Sp. p. 1342; Gaz. vol. 179; p. 209.
Grindstones, Composition for making. R. I. Dowd. No. 1,045,531; Nov. 26; Gaz. vol. 184; p. 958.
Grip device, Intermittent-. C. Hess. No. 1,025,088; Apr. 30; Sp. p. 7173; Gaz. vol. 177; p. 1258.
Grip device, Intermittent-. R. L. Lamberton. No. 1,028,574; June 4; Sp. p. 1115; Gaz. vol. 179; p. 169.
Grip device, Intermittent-. C. C. Butler. No. 1,030,460; June 25; Sp. p. 5232; Gaz. vol. 179; p. 931.
Grip device, Intermittent-. J. Calkins and F. Rice. No. 1,039,023; Sept. 17; Gaz. vol. 182; p. 693.
Grip-handle, Detachable. O. J. Hanson and L. J. Gilbert. No. 1,027,726; May 28; Sp. p. 5755; Gaz. vol. 178; p. 1003.
Grip or handle. A. E. Lard. No. 1,017,565; Feb. 13; Sp. p. 2923; Gaz. vol. 175; p. 494.
Gripper. E. I. La Chapelle. No. 1,014,710; Jan. 16; Sp. p. 3602; Gaz. vol. 174; p. 617.
Gripper. R. F. McFeely. No. 1,014,835; Jan. 16; Sp. p. 3895; Gaz. vol. 174; p. 661.
Gripper. B. F. Mayo. No. 1,015,388; Jan. 23; Sp. p. 5075; Gaz. vol. 174; p. 875.
Gripper. O. Ashton. No. 1,019,012; Mar. 5; Sp. p. 1; Gaz. vol. 176; p. 3.
Gripper. R. F. McFeely. No. 1,019,904; Mar. 12; Sp. p. 1926; Gaz. vol. 176; p. 335.
Gripper. C. A. Juengst. No. 1,029,130; June 11; Sp. p. 2307; Gaz. vol. 179; p. 393.
Gripper. W. A. Bond. No. 1,032,269; July 9; Gaz. vol. 180; p. 531.
Gripper mechanism. O. Ashton. No. 1,030,838; June 25; Sp. p. 6409; Gaz. vol. 179; p. 1067.
Gripping device. A. Victor. No. 1,027,161; May 21; Sp. p. 4618; Gaz. vol. 178; p. 775.
Gripping device. E. R. Richards. No. 1,048,585; Dec. 31; Gaz. vol. 185; p. 1098.
Gripping device for rods, tubes, &c. M. H. Fischer. No. 1,031,637; July 2; Gaz. vol. 180; p. 273.
Gripping or clamping device. H. J. Smith. No. 1,014,781; Jan. 16; Sp. p. 3766; Gaz. vol. 174; p. 641.
Grist-mill, Portable. P. Mondry. No. 1,038,935; Sept. 17; Gaz. vol. 182; p. 665.
Groove-cutting attachment for key-seating machines, Oil-. P. S. Mitts. No. 1,025,152; May 7; Sp. p. 85; Gaz. vol. 178; p. 16.
Grooves and the like upon the sides of rollers, &c., Machine for forming. H. Hess. No. 1,023,381; Apr. 16; Sp. p. 3479; Gaz. vol. 177; p. 621.
Grooving and cutting machine. F. W. Raguse. No. 1,036,905; Aug. 27; Gaz. vol. 181; p. 950.
Grooving-tool. A. F. Strafer. No. 1,026,004; May 14; Sp. p. 1994; Gaz. vol. 178; p. 344.
Ground-clamp. H. W. Pleister. No. 1,024,021; Apr. 23; Sp. p. 4816; Gaz. vol. 177; p. 855.
Ground-rod. C. Lanz. No. 1,035,020; Aug. 6; Gaz. vol. 181; p. 206.
Grouting-machine. D. A. Osgood. No. 1,024,221; Apr. 23; Sp. p. 5289; Gaz. vol. 177; p. 927.
Growth-destroyer. H. C. Shubert and C. L. Evington. No. 1,035,056; Aug. 6; Gaz. vol. 181; p. 217.
Grubber, Brush-. W. R. Horne. No. 1,013,939; Jan 9; Sp. p. 1902; Gaz. vol. 174; p. 324.
Grubbing and ditching machine, Sage-brush-. S. M. Raber. No. 1,023,173; Apr. 16; Sp. p. 3082; Gaz. vol. 177; p. 551.
Guard-attaching bracket. F. W. Schmidt. No. 1,021,802; Apr. 2; Sp. p. 99; Gaz. vol. 177; p. 20.
Guard device. T. E. Murray. No. 1,028,253; June 4; Sp. p. 420; Gaz. vol. 179; p. 61.
Guard-finger. W. Gaterman. No. 1,037,141; Aug. 27; Gaz. vol. 181; p. 1030.
Guard-finger clip. P. B. Harrison. No. 1,019,893; Mar. 12; Sp. p. 1907; Gaz. vol. 176; p. 331.
Gudgeon. O. H. Hess. No. 1,020,906; Mar. 19; Sp. p. 4035; Gaz. vol. 176; p. 704.
Guide. C. E. Bauer. No. 1,020,876; Mar. 19; Sp. p. 3985; Gaz. vol. 176; p. 694.
Guide. H. Knoke. No. 1,046,079; Dec. 3; Gaz. vol. 185; p. 96.
Guiding device, Automatic. W. C. Stephens. No. 1,041,366; Oct. 15; Gaz. vol. 183; p. 639.
Guitar. A. Larson. No. 1,022,031; Apr. 2; Sp. p. 596; Gaz. vol. 177; p. 94.
Gully. L. Lavergne dit Renaud. No. 1,032,427; July 16; Gaz. vol. 180; p. 630.
Gum containing pharmaceutical preparations, Chewing-. N. Sulzberger. No. 1,038,227; Sept. 10; Gaz. vol. 182; p. 384.
Gum, Manufacture of chewing-. J. D. Darling. No. 1,040,285; Oct. 8; Gaz. vol. 183; p. 236.
Gum receptacle, Chewing-. W. D. Roop. No. 1,040,420; Oct. 8; Gaz. vol. 183; p. 282.
Gums, Treating palo-amarillo and similar. G. B. Bradshaw. No. 1,024,178; Apr. 23; Sp. p. 5185; Gaz. vol. 177; p. 911.
Gummed-sheet drier. F. X. Malocsay. No. 1,043,447; Nov. 5; Gaz. vol. 184; p. 144.
Gummed-strip applier. J. C. Kennedy and W. S. Kinsley. No. 1,026,446; May 14; Sp. p. 3001; Gaz. vol. 178; p. 495.
Gummed-strip-serving apparatus. F. C. Kohart. No. 1,044,190; Nov. 12; Gaz. vol. 184; p. 431.
Gumming-machine. A. P. Ward and I. S. Russell. No. 1,042,298; Oct. 22; Gaz. vol. 183; p. 986.
Gun. N. H. Cloud, Jr. No. 1,031,526; July 2; Gaz. vol. 180; p. 235.
Gun. I. H. Rodehaver. No. 1,042,145; Oct. 22; Gaz. vol. 183; p. 936.
Gun. G. Hammond. No. 1,044,780; Nov. 19; Gaz. vol. 184; p. 667.
Gun, Air-. W. H. Albright. No. 1,043,657; Nov. 5; Gaz. vol. 184; p. 217.
Gun and range-finder, Combined multibarrel. H. Maxim. No. 1,031,279; July 2; Gaz. vol. 180; p. 152.
Gun, Automatic. P. Mauser. No. 1,014,660; Jan. 16; Sp. p. 3502; Gaz. vol. 174; p. 600.
Gun, Automatic. F. Schmidt. No. 1,033,625; July 23; Gaz. vol. 180; p. 1071.
Gun, Automatic. K. Heinemann. No. 1,045,549; Nov. 26; Gaz. vol. 184; p. 964.
Gun, Automatic machine-. S. N. McClean. No. 1,042,135; Oct. 22; Gaz. vol. 183; p. 932.
Gun-barrel cleaner. G. G. Miller. No. 1,041,839; Oct. 22; Gaz. vol. 183; p. 834.
Gun-barrels, Composition of matter used for cleaning. O. Tromsness. No. 1,036,383; Aug. 20; Gaz. vol. 181; p. 744.
Gun, Breakdown. W. C. Davenport. No. 1,040,644; Oct. 8; Gaz. vol. 183; p. 364.
Gun breech-loading mechanism, Artillery-. E. Olsson. No. 1,040,001; Oct. 1; Gaz. vol. 183; p. 110.
Gun breech mechanism. E. Schneider. No. 1,032,780; July 16; Gaz. vol. 180; p. 751.
Gun-carriage. K. Völler. No. 1,013,704; Jan. 2; Sp. p. 1361; Gaz. vol. 174; p. 212.
Gun-carriage mounted on a pivot. K. Völler. No. 1,032,254; July 9; Gaz. vol. 180; p. 526.
Gun, Clay-. F. H. N. Gerwig. No. 1,013,153; Jan. 2; Sp. p. 126; Gaz. vol. 174; p. 22.
Gun-cleaner. S. Whoolery. No. 1,043,653; Nov. 5; Gaz. vol. 184; p. 215.
Gun-cleaning device. W. E. Hughes. No. 1,022,945; Apr. 9; Sp. p. 2559; Gaz. vol. 177; p. 434.
Gun elevating and sighting apparatus, Field-. G. T. Buckham. No. 1,013,585; Jan. 2; Sp. p. 1063; Gaz. vol. 174; p. 172.
Gun elevating and sighting apparatus, Field-. G. T. Buckham. No. 1,013,837; Jan. 2; Sp. p. 1626; Gaz. vol. 174; p. 260.
Gun, Grease-. W. E. Sherbondy. No. 1,013,454; Jan. 2; Sp. p. 794; Gaz. vol. 174; p. 127.
Gun hand-brace. L. S. Myers. No. 1,022,437; Apr. 9; Sp. p. 1452; Gaz. vol. 177; p. 260.
Gun having a recoiling barrel. F. Wiedstruck. No. 1,039,869; Oct. 1; Gaz. vol. 183; p. 67.
Gun, Heavy. A. T. Dawson and J. Horne. No. 1,016,216; Jan. 30; Sp. p. 6820; Gaz. vol. 174; p. 1185.
Gun-holder. G. M. Wanee. No. 1,046,912; Dec. 10; Gaz. vol. 185; p. 427.
Gun-loading device, Portable. A. Kastner. No. 1,040,210; Oct. 1; Gaz. vol. 183; p. 181.
Gun lock-plates, Clip for attaching. H. A. A. Thorn. No. 1,035,498; Aug. 13; Gaz. vol. 181; p. 402.
Gun, Machine-. M. Knötgen. No. 1,032,413; July 16; Gaz. vol. 180; p. 625.
Gun, Magazine-. F. D. Ubaldo. No. 1,031,428; July 2; Gaz. vol. 180; p. 203.
Gun, Magazine-. G. S. Lewis. No. 1,041,109; Oct. 15; Gaz. vol. 183; p. 552.
Gun, Marble-. G. C. Kennedy. No. 1,037,262; Sept. 3; Gaz. vol. 182; p. 29.
Gun-mounting. K. Völler. No. 1,041,384; Oct. 15; Gaz. vol. 183; p. 644.
Gun or rifle, Automatic. W. M. Douglas. No. 1,025,132; May 7; Sp. p. 46; Gaz. vol. 178; p. 9.
Gun recoil mechanism. K. Völler. No. 1,034,171; July 30; Gaz. vol. 180; p. 1285.
Gun, Semi-automatic and other quick-firing. A. T. Dawson and G. T. Buckham. No. 1,015,147; Jan. 16; Sp. p. 4546; Gaz. vol. 174; p. 767.
Gun-sight. A. A. German. No. 1,016,883; Feb. 6; Sp. p. 1428; Gaz. vol. 175; p. 222.
Gun-sight. J. D. Russ. No. 1,017,234; Feb. 13; Sp. p. 2243; Gaz. vol. 175; p. 381.
Gun-sight. R. Stuart. No. 1,017,339; Feb. 13; Sp. p. 2454; Gaz. vol. 175; p. 417.

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Gun-sight. J. R. Jones. No. 1,028,219; June 4; Sp. p. 353; Gaz. vol. 179; p. 49.
Gun-sight. E. J. D. Newitt. No. 1,034,925; Aug. 6; Gaz. vol. 181; p. 175.
Gun-sight. E. Davis. No. 1,037,451; Sept. 3; Gaz. vol. 182; p. 94.
Gun-sight. H. C. Raedel. No. 1,048,876; Dec. 31; Gaz. vol. 185; p. 1201.
Gun-sight attachment, Telescopic. D. W. Matheson. No. 1,022,249; Apr. 2; Sp. p. 1053; Gaz. vol. 177; p. 168.
Gun-sight, Front. G. W. Peck, Jr., and W. M. Farrow, Sr. No. 1,027,892; May 28; Sp. p. 6184; Gaz. vol. 178; p. 1060.
Gun-sight-illuminating attachment. A. N. Olson. No. 1,017,991; Feb. 20; Sp. p. 3920; Gaz. vol. 175; p. 678.
Gun-sight, Rear. G. W. Peck, Jr., and W. M. Farrow, Sr. No. 1,027,891; May 28; Sp. p. 6182; Gaz. vol. 178; p. 1060.
Gun sight, Rifle and machine-. E. Müller. No. 1,027,271; May 21; Sp. p. 4827; Gaz. vol. 178; p. 813.
Gun-sights, Light for. W. A. Ide. No. 1,044,658; Nov. 19; Gaz. vol. 184; p. 623.
Gun sighting device. P. Tsukalas. No. 1,033,494; July 23; Gaz. vol. 180; p. 1027.
Gun sighting device. H. Korrodi. No. 1,041,102; Oct. 15; Gaz. vol. 183; p. 550.
Gun, Spring-. G. Preis. No. 1,030,535; June 25; Sp. p. 5447; Gaz. vol. 179; p. 957.
Gun-support. L. Schmeisser. No. 1,033,624; July 23; Gaz. vol. 180; p. 1071.
Gun, Target air-. R. Fuda. No. 1,033,094; July 23; Gaz. vol. 180; p. 894.
Gun to be mounted upon automobiles. N. Koch. No. 1,029,303; June 11; Sp. p. 2667; Gaz. vol. 179; p. 452.
Gun with recoiling barrel. K. Völler. No. 1,020,233; Mar. 12; Sp. p. 2623; Gaz. vol. 176; p. 444.
Guns, Adjustable cheek-pad for. P. B. Sherman. No. 1,032,628; July 16; Gaz. vol. 180; p. 697.
Guns, Adjusting the sights of. W. König. No. 1,048,975; Dec. 31; Gaz. vol. 185; p. 1234.
Guns and the like, Sighting device for machine-. B. Svistounoff. No. 1,028,917; June 11; Sp. p. 1847; Gaz. vol. 179; p. 320.
Guns, Breech mechanism for. B. C. Snyder. No. 1,042,048; Oct. 22; Gaz. vol. 183; p. 904.
Guns, Breech mechanism for automatic recoil-operated R. J. W. Brown. No. 1,021,130; Mar. 26; Sp. p. 4505; Gaz. vol. 176; p. 831.
Guns, Combined registering and feeding magazine for. W. P. Pinkston. No. 1,037,308; Sept. 3; Gaz. vol. 182; p. 43.
Guns, Counterweighted single trigger for double-barrel. A. H. Worrest. No. 1,013,255; Jan. 2; Sp. p. 362; Gaz. vol. 174; p. 58.
Guns, Fluid-brake for recoil-. W. Heilemann. No. 1,028,939; June 11; Sp. p. 1894; Gaz. vol. 179; p. 327.
Guns, Fore-arm lock for. J. C. Kremer and A. H. Fox. No. 1,029,374; June 11; Sp. p. 2842; Gaz. vol. 179; p. 478.
Guns from erosion, Method of and means for protecting the bores of heavy. F. N. Du Bois. No. 1,044,360; Nov. 12; Gaz. vol. 184; p. 489.
Guns from tilting, Device for preventing differential-recoil. K. Völlner. No. 1,032,869; July 16; Gaz. vol. 180; p. 780.
Guns, Liquid recoil-brake for. E. Völler. No. 1,028,081; May 28; Sp. p. 6570; Gaz. vol. 178; p. 1120.
Guns, Means for preventing the erosion of. A. A. Ackerman. No. 1,036,171; Aug. 20; Gaz. vol. 181; p. 669.
Guns, Safety appliance for hammer-. L. G. Sagabiel. No. 1,021,427; Mar. 26; Sp. p. 5162; Gaz. vol. 176; p. 934.
Guns, Safety breech-block lock for. S. Jacobs. No. 1,026,590; May 14; Sp. p. 3275; Gaz. vol. 178; p. 541.
Guns, Single-trigger mechanism for double-barrel. A. H. Worrest. No. 1,013,254; Jan. 2; Sp. p. 359; Gaz. vol. 174; p. 57.
Guns, Single-trigger mechanism for double-barrel. A. H. Worrest. No. 1 029,782; June 18; Sp. p. 3719; Gaz. vol. 179; p. 655
Guns, Ventilated sighting-rib for. F. O. Hoagland. No. 1,029,292; June 11; Sp. p. 2640; Gaz. vol. 179; p. 448.
Guns with differential recoils, Firing device for. E. Müller. No. 1,026,597; May 14; Sp. p. 3291; Gaz. vol. 178; p. 544.
Guns with recoiling barrels, Valve for hydraulic brakes in. E. Olsson. No. 1,029,555; June 11; Sp. p. 3222; Gaz. vol. 179; p. 540.
Gutter. G. Mathes. No. 1,013,194; Jan. 2; Sp. p. 218; Gaz. vol. 174; p. 37.
Gutter-box. E. W. Snow. No. 1,032,249; July 9; Gaz. vol. 180; p. 525.
Gutter-bracket. C. H. Sparks. No. 1,036,924; Aug. 27; Gaz. vol. 181; p. 957.
Gymnasium apparatus. M. B. Reach. No. 1,015,208; Jan. 16; Sp. p. 4663; Gaz. vol. 174; p. 787.
Gymnasium apparatus. A. J. Thornley. No. 1,041,701; Oct. 15; Gaz. vol. 183; p. 748.
Gymnasium apparatus. R. Reach. No. 1,046,329; Dec. 3; Gaz. vol. 185; p. 185.
Gymnasium apparatus with clamping device. M. B. and W. F. Reach. No. 1,013,687; Jan. 2; Sp. p. 1338; Gaz. vol. 174; p. 207.
Gymnastic apparatus. A. E. Garland. No. 1,019,037; Mar. 5; Sp. p. 51; Gaz. vol. 176; p. 11.
Gyratory crusher. T. W. Capen. No. 1,029,742; June 18; Sp. p. 3641; Gaz. vol. 179; p. 642.
Gyratory crusher. B. W. Traylor. No. 1,047,859; Dec. 17; Gaz. vol. 185; p. 789.
Gyratory machine. W. D. Gray. No. 1,015,434; Jan. 23; Sp. p. 5182; Gaz. vol. 174; p. 890.
Gyromotor. R. S. Richeson. No. 1,049,264; Dec. 31; Gaz. vol. 185; p. 1334.
Gyroplane. N. E. Brown. No. 1,040,136; Oct. 1; Gaz. vol. 183; p. 156.
Gyroscope. H. Anschütz-Kaempfe. No. 1,019,582; Mar. 5; Sp. p. 1290; Gaz. vol. 176; p. 193.
Gyroscopic rocket and the firing apparatus therefor. N. Gherassimoff. No. 1,018,312; Feb. 20; Sp. p. 4589; Gaz. vol. 175; p. 788.
Gyroscopic steering-gear, Valve-control mechanism for. G. C. Davison. No. 1,033,994; July 30; Gaz. vol. 180; p. 1223.
Gyroscopic steering mechanism for torpedoes. G. C. Davison. No. 1,033,995; July 30; Gaz. vol. 180; p. 1224.
Gyrostatic mechanism. E. Falcke. No. 1,048,817; Dec. 31; Gaz. vol. 185; p. 1182.
Hackling-machine. J. Forseck. No. 1,046,168; Dec. 3; Gaz. vol. 185; p. 127.
Hackling or braking machine. E. J. Feuillette. No. 1,036,820; Aug. 27; Gaz. vol. 181; p. 923.
Hacksaw. G. J. Blum. No. 1,032,650; July 16; Gaz. vol. 180; p. 705.
Hacksaw. C. F. Wurst and W. Schaff. No. 1,039,470; Sept. 24; Gaz. vol. 182; p. 864.
Hacksaw. J. S. Dikeman. No. 1,044,359; Nov. 12; Gaz. vol. 184; p. 489.
Hacksaw-frame. J. W. McQuillan. No. 1,023,216; Apr. 16; Sp. p. 3161; Gaz. vol. 177; p. 566.
Hacksaw-machine. L. M. Fairbanks. No. 1,028,342; June 4; Sp. p. 598; Gaz. vol. 179; p. 90.
Hacksaw-machines, Feeding means for power. A. Rasmussen. No. 1,025,305; May 7; Sp. p. 424; Gaz. vol. 178; p. 69.
Hair and scalp treating instrument, Electrical. H. C. Folger. No. 1,029,861; June 18; Sp. p. 3920; Gaz. vol. 179; p. 682.
Hair, Apparatus for shampooing ladies'. W. Faerber. No. 1,028,341; June 4; Sp. p. 597; Gaz. vol. 179; p. 90.
Hair-clipper. R. Romano. No. 1,024,364; Apr. 23; Sp. p. 5550; Gaz. vol. 177; p. 973.
Hair-clipper. K. A. Hellström. No. 1,044,455; Nov. 12; Gaz. vol. 184; p. 521.
Hair-clipping machine. H. Schneider. No. 1,016,855; Feb. 6; Sp. p. 1376; Gaz. vol. 175; p. 212.
Hair-comb. F. Glowacki and S. Krzyzak. No. 1,016,007; Jan. 30; Sp. p. 6410; Gaz. vol. 174; p. 1115.
Hair-comb. G. Anderson. No. 1,034,859; Aug. 6; Gaz. vol. 181; p. 155.
Hair-comb, Electric. J. T. Niblett. No. 1,033,726; July 23; Gaz. vol. 180; p. 1103.
Hair-cutter. S. Perrone. No. 1,023,786; Apr. 16; Sp. p. 4252; Gaz. vol. 177; p. 747.
Hair-cutting device. F. E. Fooks. No. 1,013,874; Jan. 9; Sp. p. 1760; Gaz. vol. 174; p. 301.
Hair-cutting gage. E. E. Longden. No. 1,040,711; Oct. 8; Gaz. vol. 183; p. 387.
Hair-drier. A. Barker. No. 1,015,121; Jan. 16; Sp. p. 4505; Gaz. vol. 174; p. 758.
Hair-drying apparatus. L. T. La Paugh. No. 1,019,808; Mar. 12; Sp. p. 1724; Gaz. vol. 176; p. 302.
Hair-drying apparatus. I. Scholz. No. 1,037,548; Sept. 3; Gaz. vol. 182; p. 126.
Hair-dye. L. and A. Seago. No. 1,017,269; Feb. 13; Sp. p. 2311; Gaz. vol. 175; p. 393.
Hair-dye. R. Wolffenstein and J. Colman. No. 1,019,576; Mar. 5; Sp. p. 1280; Gaz. vol. 176; p. 192.
Hair-fastener. O. H. Arnold. No. 1,016,466; Feb. 6; Sp. p. 527; Gaz. vol. 175; p. 81.
Hair-holder. M. J. Pope. No. 1,040,750; Oct. 8; Gaz. vol. 183; p. 398.
Hair ornament. C. Judis. No. 1,015,802; Jan. 30; Sp. p. 5967; Gaz. vol. 174; p. 1044.
Hair ornament. W. J. Hines. No. 1,020,424; Mar. 19; Sp. p. 3003; Gaz. vol. 176; p. 544.
Hair ornaments, Machine for making. W. J. Hines. No. 1,027,419; May 28; Sp. p. 5145; Gaz. vol. 178; p. 902.
Hair-pin. C. R. Bendig. No. 1,015,284; Jan. 23; Sp. p. 4839; Gaz. vol. 174; p. 839.
Hair-pin. F. Herbst. No. 1,020,904; Mar. 19; Sp. p. 4032; Gaz. vol. 176; p. 704.
Hair-pin. L. C. Belz. No. 1,026,142; May 14; Sp. p. 2322; Gaz. vol. 178; p. 392.
Hair-pin. T. C. Leutze. No. 1,039,762; Oct. 1; Gaz. vol. 183; p. 31.
Hair-pin. K. Schenk. No. 1,048,353; Dec. 24; Gaz. vol. 185; p. 981.
Hair-pin-making machine. I. H. Sisson. No. 1,019,375; Mar. 5; Sp. p. 857; Gaz. vol. 176; p. 128.
Hair-pins, Manufacturing. G. S. Pollitz. No. 1,031,467; July 2; Gaz. vol. 180; p. 216.

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Hair-puffer. A. A. West and W. H. Benjamin. No. 1,013,346; Jan. 2; Sp. p. 574; Gaz. vol. 174; p. 91.
Hair puffs and curls, Device for making. J. A. Davis. (Reissue.) No. 13,442; July 16; Gaz. vol. 180; p. 850.
Hair-spring-stud-holding means. W. W. Dudley. No. 1,037,742; Sept. 3; Gaz. vol. 182; p. 189.
Hair-spring tester. A. G. and A. A. Hamm. No. 1,029,608; June 18; Sp. p. 3336; Gaz. vol. 179; p. 594.
Hair-steaming device. T. Grosert and E. Unger. No. 1,029,361; June 11; Sp. p. 2806; Gaz. vol. 179; p. 473.
Hair-straightening device. A. F. Cox. No. 1,014,952; Jan. 16; Sp. p. 4165; Gaz. vol. 174; p. 700.
Hair-tonic and compounding same. J. L. Brooks. No. 1,037,425; Sept. 3; Gaz. vol. 182; p. 84.
Hair-tonics, Device for applying. I. O. Hall. No. 1,014,465; Jan. 9; Sp. p. 3040; Gaz. vol. 174; p. 504.
Hair-waver. M. McIlveene. No. 1,041,651; Oct. 15; Gaz. vol. 183; p. 731.
Hairs from skins to suitable supports, Transferring. H. Marche. No. 1,047,822; Dec. 17; Gaz. vol. 185; p. 776.
Halls, &c., Erecting large. H. Holland. No. 1,032,284; July 9; Gaz. vol. 180; p. 538.
Halogen-oxygen compounds by electrolysis, Preparing. M. Pier. No. 1,038,194; Sept. 10; Gaz. vol. 182; p. 373.
Halogens, Making. C. W. Jones and A. E. Schaefer. No. 1,036,121; Aug. 20; Gaz. vol. 181; p. 651.
Halogenized condensation product of the anthracene series and making same. A. Schmidt and G. Kränzlein. No. 1,046,498; Dec. 10; Gaz. vol. 185; p. 283.
Halter. A. Fraizer. No. 1,015,166; Jan. 16; Sp. p. 4580; Gaz. vol. 174; p. 772.
Hame attachment. F. L. Lowrey. No. 1,016,280; Feb. 6; Sp. p. 104; Gaz. vol. 175; p. 16.
Hame draft-eye. T. A. Fog. No. 1,025,970; May 14; Sp. p. 1921; Gaz. vol. 178; p. 331.
Hame-fastener. W. R. Angell. No. 1,019,291; Mar. 5; Sp. p. 634; Gaz. vol. 176; p. 99.
Hame-fastener. P. F. McCrone. No. 1,026,817; May 21; Sp. p. 3792; Gaz. vol. 178; p. 657.
Hame-fastener. E. J. Jones. No. 1,032,411; July 16; Gaz. vol. 180; p. 624.
Hame-fastener. F. M. and M. D. Howe. No. 1,039,945; Oct. 1; Gaz. vol. 183; p. 91.
Hame-fastener. N. H. Williamson. No. 1,047,358; Dec. 17; Gaz. vol. 185; p. 614.
Hame-fastenings, Coupling member for. G. G. Greene. No. 1,045,699; Nov. 26; Gaz. vol. 184; p. 1017.
Hame-hook. P. M. Hardy. No. 1,042,911; Oct. 29; Gaz. vol. 183; p. 1228.
Hame-ring holder, Adjustable. P. J. Tix. No. 1,017,188; Feb. 13; Sp. p. 2132; Gaz. vol. 175; p. 367.
Hammer. C. S. Boden. No. 1,024,390; Apr. 23; Sp. p. 5593; Gaz. vol. 177; p. 981.
Hammer. J. W. Miller. No. 1,037,289; Sept. 3; Gaz. vol. 182; p. 37.
Hammer. P. B. Vredenburg. No. 1,042,177; Oct. 22; Gaz. vol. 183; p. 946.
Hammer. E. O. Hubbard. No. 1,045,145; Nov. 26; Gaz. vol. 184; p. 820.
Hammer and nail-set, Combined. W. Thomas. No. 1,041,903; Oct. 22; Gaz. vol. 183; p. 856.
Hammer attachment. G. W. Ansley. No. 1,017,491; Feb. 13; Sp. p. 2789; Gaz. vol. 175; p. 470.
Hammer attachment. H. B. Hudson. No. 1,026,915; May 21; Sp. p. 4029; Gaz. vol. 178; p. 691.
Hammer attachment, Claw-. J. R. Kidd. No. 1,029,934; June 18; Sp. p. 4082; Gaz. vol. 179; p. 708.
Hammer, Automatic. O. S. Hoover and J. A. Miller. No. 1,048,535; Dec. 31; Gaz. vol. 185; p. 1082.
Hammer, Bush-. W. J. Ertle. No. 1,018,892; Feb. 27; Sp. p. 5900; Gaz. vol. 175; p. 1017.
Hammer, Bush-. W. F. Rice. No. 1,031,870; July 9; Gaz. vol. 180; p. 398.
Hammer device, Pneumatic-. L. G. Fischer. No. 1,041,057; Oct. 15; Gaz. vol. 183; p. 534.
Hammer-drill. W. Prellwitz. No. 1,015,509; Jan. 23; Sp. p. 5338; Gaz. vol. 174; p. 916.
Hammer-drills, Rotation device for. C. C. Hansen. No. 1,023,518; Apr. 16; Sp. p. 3757; Gaz. vol. 177; p. 664.
Hammer, Fluid-pressure-actuated. N. W. Iseli. No. 1,042,442; Oct. 29; Gaz. vol. 183; p. 1064.
Hammer for driving nails, Pneumatic. W. E. Colwell. No. 1,014,639; Jan. 16; Sp. p. 3453; Gaz. vol. 174; p. 593.
Hammer-frame-adjusting means, Drop-. H. Terhune. No. 1,044,292; Nov. 12; Gaz. vol. 184; p. 466.
Hammer, Internal-combustion power-. M. C. White and O. C. Duryea. No. 1,033,503; July 23; Gaz. vol. 180; p. 1030.
Hammer lubricating device, Steam-. M. Schalscha. No. 1,037,332; Sept. 3; Gaz. vol. 182; p. 51.
Hammer, Magazine-. O. J. A. Smith. No. 1,031,480; July 2; Gaz. vol. 180; p. 221.
Hammer, Mechanical. J. Kunz. No. 1,046,809; Dec. 10; Gaz. vol. 185; p. 393.
Hammer, Pneumatic. E. H. Lagerström. No. 1,017,562; Feb. 13; Sp. p. 2918; Gaz. vol. 175; p. 493.
Hammer, Pneumatic. C. B. French. No. 1,022,837; Apr. 9; Sp. p. 2323; Gaz. vol. 177; p. 397.
Hammer, Pneumatic. R. A. Norling. No. 1,027,060; May 21; Sp. p. 4378; Gaz. vol. 178; p. 743.
Hammer, Pneumatic. R. A. Norling. No. 1,027,062; May 21; Sp. p. 4387; Gaz. vol. 178; p. 744.
Hammer, Pneumatic. E. C. Meissner. No. 1,028,124; June 4; Sp. p. 63; Gaz. vol. 179; p. 14.
Hammer, Pneumatic. H. Keller. No. 1,035,358; Aug. 13; Gaz. vol. 181; p. 355.
Hammer, Pneumatic. G. D. Roberts. No. 1,037,323; Sept. 3; Gaz. vol. 182; p. 48.
Hammer, Pneumatic. H. Schumacher. No. 1,044,263; Nov. 12; Gaz. vol. 184; p. 456.
Hammer, Pneumatic. W. S. Johnson. No. 1,047,532; Dec. 17; Gaz. vol. 185; p. 674.
Hammer, Pneumatic. G. L. Robertson. No. 1,048,099; Dec. 24; Gaz. vol. 185; p. 897.
Hammer, Pneumatic hand-. C. H. Stevens. No. 1,030,212; June 18; Sp. p. 4663; Gaz. vol. 179; p. 801.
Hammer, Power-. G. H. Rowe. No. 1,017,916; Feb. 20; Sp. p. 3754; Gaz. vol. 175; p. 652.
Hammer, Power-. J. A. Willey. No. 1,038,999; Sept. 17; Gaz. vol. 182; p. 686.
Hammer, Power-. S. P. Harvey. No. 1,045,548; Nov. 26; Gaz. vol. 184; p. 964.
Hammer-press. W. J. Hagman. No. 1,039,277; Sept. 24; Gaz. vol. 182; p. 798.
Hammer-press. E. H. Wray and L. M. Pyle. No. 1,044,617; Nov. 19; Gaz. vol. 184; p. 609.
Hammer, Rotary. R. and F. Harner. No. 1,049,083; Dec. 31; Gaz. vol. 185; p. 1272.
Hammer shock-absorbing support, Pneumatic-. R. A. Norling. No. 1,043,457; Nov. 5; Gaz. vol. 184; p. 148.
Hammer, Shredding-. M. F. Williams. No. 1,033,506; July 23; Gaz. vol. 180; p. 1032.
Hammer, Slicing-. M. F. Williams. No. 1,016,979; Feb. 13; Sp. p. 1670; Gaz. vol. 175; p. 292.
Hammer, Slicing-. M. F. Williams. No. 1,020,381; Mar. 12; Sp. p. 2895; Gaz. vol. 176; p. 490.
Hammer, Soft-metal. W. T. Bausmith. No. 1,029,739; June 18; Sp. p. 3637; Gaz. vol. 179; p. 641.
Hammer, Splitting-. M. F. Williams. No. 1,031,896; July 9; Gaz. vol. 180; p. 406.
Hammer, Steam-. T. M. Shearer. No. 1,026,002; May 14; Sp. p. 1991; Gaz. vol. 178; p. 343.
Hammer-supporting device and adjustable frame for the same, Power-. E. J. Allen. No. 1,020,471; Mar. 19; Sp. p. 3095; Gaz. vol. 176; p. 559.
Hammer throttle-gear, Steam-. W. J. Hagman. No. 1,034,911; Aug. 6; Gaz. vol. 181; p. 170.
Hammer, Trip-. J. L. Kelley. No. 1,035,968; Aug. 20; Gaz. vol. 181; p. 597.
Hammer, Trip-. E. M. Patten. No. 1,042,961; Oct. 29; Gaz. vol. 183; p. 1244.
Hammers, &c., Safety attachment for drop-. B. Brearley. No. 1,030,381; June 25; Sp. p. 5058; Gaz. vol. 179; p. 902.
Hammock. I. E. Palmer. (Reissue.) No. 13,401; Apr. 9; Sp. p. 2917; Gaz. vol. 177; p. 497.
Hammock. J. J. Maxwell. No. 1,026,524; May 14; Sp. p. 3156; Gaz. vol. 178; p. 521.
Hammock. A. T. Hallock. No. 1,035,962; Aug. 20; Gaz. vol. 181; p. 595.
Hammock and frame therefor, Couch-. I. E. Palmer. No. 1,030,485; June 25; Sp. p. 5298; Gaz. vol. 179; p. 939.
Hammock and swing support. C. Corley. No. 1,048,946; Dec. 31; Gaz. vol. 185; p. 1225.
Hammock, Bed-. C. H. Young. No. 1,030,960; July 2; Gaz. vol. 180; p. 38.
Hammock, Couch-. G. F. Sisbower. No. 1,016,102; Jan. 30; Sp. p. 6618; Gaz. vol. 174; p. 1150.
Hammock, Couch-. I. E. Palmer. No. 1,016,894; Feb. 6; Sp. p. 1453; Gaz. vol. 175; p. 225.
Hammock, Couch-. I. E. Palmer. No. 1,030,481; June 25; Sp. p. 5290; Gaz. vol. 179; p. 938.
Hammock, Couch-. I. E. Palmer. No. 1,030,482; June 25; Sp. p. 5291; Gaz. vol. 179; p. 938.
Hammock, Couch-. E. Gregory. No. 1,032,540; July 16; Gaz. vol. 180; p. 668.
Hammock, Couch-. W. H. Harrison. No. 1,047,938; Dec. 24; Gaz. vol. 185; p. 844.
Hammock-cradle. H. L. Hohlfeld. No. 1,039,944; Oct. 1; Gaz. vol. 183; p. 91.
Hammock-frame, Portable. F. W. Hibbs. No. 1,032,211; July 9; Gaz. vol. 180; p. 511.
Hammock or other support. I. E. Palmer. No. 1,031,146; July 2; Gaz. vol. 180; p. 106.
Hammock or swinging couch. H. A. Vossmer. No. 1,022,164; Apr. 2; Sp. p. 872; Gaz. vol. 177; p. 139.
Hammock, Reversible-face couch-. I. E. Palmer. No. 1,030,487; June 25; Sp. p. 5303; Gaz. vol. 179; p. 940.
Hammock-support, Folding. N. B. Simonds. No. 1,031,295; July 2; Gaz. vol. 180; p. 157.
Hammock-supporter. W. P. Hammond. No. 1,029,609; June 18; Sp. p. 3337; Gaz. vol. 179; p. 594.
Hammocks, Bedstead-support for couch-. I. E. Palmer. No. 1,030,483; June 25; Sp. p. 5294; Gaz. vol. 179; p. 939.
Hammocks, Bedstead-support for couch-. I. E. Palmer. No. 1,030,486; June 25; Sp. p. 5300; Gaz. vol. 179; p. 940.
Hammocks, Reversible-mattress-securing means for couch-. I. E. Palmer. No. 1,030,484; June 25; Sp. p. 5297; Gaz. vol. 179; p. 939.

Alphabetical list of inventions—Continued.

Hams, Preserving. P. Jörn. No. 1,036,254; Aug. 20; Gaz. vol. 181; p. 699.
Hams, Preserving. P. Jörn. No. 1,036,255; Aug. 20; Gaz. vol. 181; p. 699.
Hand, Artificial. D. W. Dorrance. No. 1,042,413; Oct. 29; Gaz. vol. 183; p. 1053.
Hand-bag. H. Cohn and P. Berman. No. 1,039,489; Sept. 24; Gaz. vol. 182; p. 871.
Hand-bag. I. J. Levy. No. 1,042,934; Oct. 29; Gaz. vol. 183; p. 1235.
Hand-bag. J. Sims. No. 1,049,279; Dec. 31; Gaz. vol. 185; p. 1338.
Hand-bag, Lady's. J. Olpp. No. 1,046,843; Dec. 10; Gaz. vol. 185; p. 403.
Hand-bag or the like. K. B. Ford. No. 1,018,417; Feb. 27; Sp. p. 4840; Gaz. vol. 175; p. 857.
Hand-bag, Sewed. E. Becker. No. 1,021,298; Mar. 26; Sp. p. 4865; Gaz. vol. 176; p. 888.
Hand-bags, pocket-books, &c., Frame for. L. B. and L. L Prahar. No. 1,029,221; June 11; Sp. p. 2494; Gaz. vol. 179; p. 424.
Hand-brake, Worm-geared. H. Fresh. No. 1,035,340; Aug. 13; Gaz. vol. 181; p. 348.
Hand-comb. R. Kraus. No. 1,040,357; Oct. 8; Gaz. vol. 183; p. 260.
Hand-hole plate. W. C. Morrison. No. 1,025,710; May 7; Sp. p. 1331; Gaz. vol. 178; p. 207.
Hand or breast drill, Portable. R. P. Thompson. No. 1,034,535; Aug. 6; Gaz. vol. 181; p. 45.
Hand-press. S. J. Arnold. No. 1,019,293; Mar. 5; Sp. p. 643; Gaz. vol. 176; p. 100.
Hand-reel. G. T. Olson. No. 1,047,113; Dec. 10; Gaz. vol. 185; p. 493.
Hand-rest. N. R. Holcomb. No. 1,018,615; Feb. 27; Sp. p. 5320; Gaz. vol. 175; p. 923.
Hand-warmer. M. B. Akahori and M. Mochizuki. No. 1,015,661; Jan. 23; Sp. p. 5672; Gaz. vol. 174; p. 969.
Handcuff. J. F. Carberry. No. 1,014,118; Jan. 9; Sp. p. 2301; Gaz. vol. 174; p. 384.
Handcuff. G. A. Carney. No. 1,017,955; Feb. 20; Sp. p. 3838; Gaz. vol. 175; p. 665.
Handcuff. J. Lorey. No. 1,038,492; Sept. 10; Gaz. vol. 182; p. 476.
Handkerchief-machine. M. Adair, J. A. Cameron, and F. Ainsworth. No. 1,026,547; May 14; Sp. p. 3192; Gaz. vol. 178; p. 528.
Handle: *See* Air-brake-valve handle; Bag-handle; Basket-handle; Bottle-handle; Bottle-carrying handle; Box-handle; Brake-handle; Broom-handle; Casket-handle; Coal-hod and like handle; Cover-handle; Cycle-handle; Detachable handle; Go-cart handle; Grip-handle; Implement-handle; Lamp-handle; Lantern-handle; Musical-instrument control-handle; Pick-handle; Pot-handle; Razor-handle; Receptacle-handle; Sad-iron handle; Satchel, &c., handle; Saw-handle; Soap-handle; Spade-handle; Suit-case handle; Switch-handle; Tool-handle; Tubular handle; Umbrella-handle; Umbrella or cane handle; Utensil-handle; Valve-handle.
Handle. J. E. Keily. No. 1,019,799; Mar. 12; Sp. p. 1711; Gaz. vol. 176; p. 299.
Handle. J. W. Dailey. No. 1,021,575; Mar. 26; Sp. p. 5480; Gaz. vol. 176; p. 984.
Handle. R. J. Prins. No. 1,022,380; Apr. 2; Sp. p. 1304; Gaz. vol. 177; p. 211.
Handle. A. E. Meyer and F. Wetteroth. No. 1,025,416; May 7; Sp. p. 678; Gaz. vol. 178; p. 107.
Handle. E. L. Watrous. No. 1,040,597; Oct. 8; Gaz. vol. 183; p. 344.
Handle. G. P. Hart and S. W. Parsons. No. 1,040,944; Oct. 8; Gaz. vol. 183; p. 461.
Handle-attaching device. H. S. Post. No. 1,013,438; Jan. 2; Sp. p. 765; Gaz. vol. 174; p. 122.
Handle-attaching device. K. Schiess. No. 1,043,146; Nov. 5; Gaz. vol. 184; p. 35.
Handle-bar grip. T. W. Snoe. No. 1,020,462; Mar. 19; Sp. p. 3076; Gaz. vol. 176; p. 557.
Handle-bars, Adjustable. W. J. Steffel. No. 1,024,914; Apr. 30; Sp. p. 6828; Gaz. vol. 177; p. 1200.
Handle-clamp, Adjustable. G. E. Whipple. No. 1,024,047; Apr. 23; Sp. p. 4886; Gaz. vol. 177; p. 865.
Handle-fastening. W. J. Higgs. No. 1,033,171; July 23; Gaz. vol. 180; p. 920.
Handle for articles of hardware. O. L. Harrison. No. 1,015,022; Jan. 16; Sp. p. 4307; Gaz. vol. 174; p. 725.
Handle for suit-cases and the like. C. M. Hollingsworth. No. 1,047,941; Dec. 24; Gaz. vol. 185; p. 844.
Handle mechanism. N. W. Perkins, Jr. No. 1,016,287; Feb. 6; Sp. p. 114; Gaz. vol. 175; p. 18.
Handle-mount. W. A. Parker. No. 1,016,576; Feb. 6; Sp. p. 801; Gaz. vol. 175; p. 119.
Handling broken ends, Device for. G. M. Arragg. No. 1,039,349; Sept. 24; Gaz. vol. 182; p. 823.
Handling helpless persons, Appliance for. W. W. and J. F. Miller. No. 1,018,723; Feb. 27; Sp. p. 5542; Gaz. vol. 175; p. 959.
Handling loose materials, Machine for. G. W. Jackson. No. 1,021,463; Mar. 26; Sp. p. 5237; Gaz. vol. 176; p. 947.
Handling, sorting, and delivering parcels and the like, Apparatus for. A. W. Gattie and A. G. Seaman. No. 1,022,935; Apr. 9; Sp. p. 2531; Gaz. vol. 177; p. 431.
Handling, unloading, storing, and reloading plant. H. P. Andresen. No. 1,014,994; Jan. 16; Sp. p. 4250; Gaz. vol. 174; p. 715.
Handsaw. J. Wood. No. 1,040,832; Oct. 8; Gaz. vol. 183; p. 425.
Hanger: *See* Apparel-hanger; Article-hanger; Automatic hanger; Boat lift and shaft-hanger; Brake-hanger; Cable-hanger; Car-hanger; Car-door hanger; Cement-post hanger; Clothes-hanger; Clothes-line hanger; Coat-hanger; Coat and pants hanger; Corn-hanger; Crape-hanger; Curtain-hanger; Curtain or the like hanger; Door-hanger; Dry-room hanger; Eaves-trough hanger; Fixture-hanger; Garment-hanger; Hat and coat hanger; Joist-hanger; Joist and girder hanger; Lamp-hanger; Litter-carrier hanger; Mail-box hanger; Outlet-box hanger; Picture-hanger; Pipe-hanger; Pistol-holster hanger; Pulley-hanger; Screen-hanger; Screen or sash hanger; Shade-hanger; Shade and curtain hanger; Shaft-hanger; Suit-hanger; Trace-hanger; Train-line hanger; Trolley-hanger; Trolley-wire hanger; Trousers-hanger; Umbrella-hanger; Window-screen hanger; Wire-hanger.
Hanger. H. Claussen. No. 1,018,097; Feb. 20; Sp. p. 4158; Gaz. vol. 175; p. 715.
Hanger. E. Moore. No. 1,049,128; Dec. 31; Gaz. vol. 185; p. 1288.
Hanger for false work. A. Arnn. No. 1,023,192; Apr. 16; Sp. p. 3117; Gaz. vol. 177; p. 558.
Hanger-rack. I. W. Miller. No. 1,014,020; Jan. 9; Sp. p. 2086; Gaz. vol. 174; p. 350.
Hanger-rack for garment-receptacles. A. Gilmore. No. 1,047,931; Dec. 24; Gaz. vol. 185; p. 841.
Hanger-support. W. Goss. No. 1,021,867; Apr. 2; Sp. p. 252; Gaz. vol. 177; p. 41.
Hanger-support. A. Martin. No. 1,037,277; Sept. 3; Gaz. vol. 182; p. 33.
Hanger-wrench and splice-adjuster. P. J. Murphy. No. 1,032,853; July 16; Gaz. vol. 180; p. 775.
Hardhack and the like, Machine for burning. T. E. Doubt. No. 1,027,038; May 21; Sp. p. 4334; Gaz. vol. 178; p. 735.
Hardy-operating device. H. C. Gist. No. 1,024,848; Apr. 30; Sp. p. 6696; Gaz. vol. 177; p. 1178.
Harmonic ringer. E. B. Craft. No. 1,014,125; Jan. 9; Sp. p. 2316; Gaz. vol. 174; p. 386.
Harness. E. Tiffany. No. 1,016,048; Jan. 30; Sp. p. 6499; Gaz. vol. 174; p. 1130.
Harness. J. C. Harpham. No. 1,023,147; Apr. 16; Sp. p. 3015; Gaz. vol. 177; p. 541.
Harness. R. Toward. No. 1,026,723; May 21; Sp. p. 3597; Gaz. vol. 178; p. 625.
Harness. J. E. Kershaw. No. 1,026,751; May 21; Sp. p. 3646; Gaz. vol. 178; p. 634.
Harness and umbrella-support, Body-. T. Simard. No. 1,020,666; Mar. 19; Sp. p. 3538; Gaz. vol. 176; p. 623.
Harness attachment. C. M. Green. No. 1,028,711; June 4; Sp. p. 1382; Gaz. vol. 179; p. 214.
Harness, Child's. I. M. Brown. No. 1,048,033; Dec. 24; Gaz. vol. 185; p. 874.
Harness-hook. A. Denton. No. 1,029,347; June 11; Sp. p. 2781; Gaz. vol. 179; p. 469.
Harness-pad. D. H. Carrigan. No. 1,013,586; Jan. 2; Sp. p. 1065; Gaz. vol. 174; p. 172.
Harness-snap. J. C. Proebstel. No. 1,016,360; Feb. 6; Sp. p. 271; Gaz. vol. 175; p. 42.
Harness stop-motion device. F. Ehinger. No. 1,024,680; Apr. 30; Sp. p. 6344; Gaz. vol. 177; p. 1118.
Harp. G. F. Lyon. No. 1,039,303; Sept. 24; Gaz. vol. 182; p. 808.
Harp. J. O. Varian. No. 1,049,176; Dec. 31; Gaz. vol. 185; p. 1302.
Harp-action. L. Wolf. No. 1,033,856; July 30; Gaz. vol. 180; p. 1174.
Harp-action. L. Wolf. No. 1,037,569; Sept. 3; Gaz. vol. 182; p. 132.
Harrow. W. Thorn. No. 1,013,462; Jan. 2; Sp. p. 815; Gaz. vol. 174; p. 130.
Harrow. A. L. Flattum. No. 1,015,548; Jan. 23; Sp. p. 5420; Gaz. vol. 174; p. 929.
Harrow. C. E. White. No. 1,016,807; Feb. 6; Sp. p. 1277; Gaz. vol. 175; p. 196.
Harrow. E. D. Fergerson. No. 1,018,103; Feb. 20; Sp. p. 4170; Gaz. vol. 175; p. 717.
Harrow. G. E. Davis. No. 1,018,301; Feb. 20; Sp. p. 4568; Gaz. vol. 175; p. 784.
Harrow. J. F. Robbins. No. 1,018,344; Feb. 20; Sp. p. 4643; Gaz. vol. 175; p. 798.
Harrow. W. E. Ross. No. 1,018,928; Feb. 27; Sp. p. 5971; Gaz. vol. 175; p. 1029.
Harrow. E. T. Chandler. No. 1,019,221; Mar. 5; Sp. p. 470; Gaz. vol. 176; p. 75.
Harrow. G. W. Copeland. No. 1,020,189; Mar. 12; Sp. p. 2526; Gaz. vol. 176; p. 429.
Harrow. C. E. White. No. 1,020,530; Mar. 19; Sp. p. 3227; Gaz. vol. 176; p. 578.
Harrow. M. Elsas. No. 1,021,977; Apr. 2; Sp. p. 488; Gaz. vol. 177; p. 78.

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Harrow. R. C. Pegrim. No. 1,022,500; Apr. 9; Sp. p. 1576; Gaz. vol. 177; p. 282.
Harrow. M. Merkel. No. 1,023,436; Apr. 16; Sp. p. 3587; Gaz. vol. 177; p. 638.
Harrow. J. C. Freeman. No. 1,033,574; July 23; Gaz. vol. 180; p. 1055.
Harrow. W. E. Ross. No. 1,033,620; July 23; Gaz. vol. 180; p. 1069.
Harrow. E. E. Adix. No. 1,034,558; Aug. 6; Gaz. vol. 181; p. 52.
Harrow. E. E. Adix. No. 1,034,753; Aug. 6; Gaz. vol. 181; p. 118.
Harrow. E. B. Dikeman. No. 1,040,524; Oct. 8; Gaz. vol. 183; p. 318.
Harrow. J. W. Magee. No. 1,041,313; Oct. 15; Gaz. vol. 183; p. 621.
Harrow. D. C. Smith. No. 1,042,493; Oct. 29; Gaz. vol. 183; p. 1082.
Harrow. W. C. Onyon. No. 1,046,009; Dec. 3; Gaz. vol. 185; p. 72.
Harrow. C. E. White. No. 1,046,921; Dec. 10; Gaz. vol. 185; p. 430.
Harrow. C. J. Gonzales. No. 1,047,042; Dec. 10; Gaz. vol. 185; p. 469.
Harrow, Adjustable foldable. D. K. Wilson. No. 1,015,865; Jan. 30; Sp. p. 6099; Gaz. vol. 174; p. 1063.
Harrow and drag, Combined. T. J. Wheeler. No. 1,026,539; May 14; Sp. p. 3179; Gaz. vol. 178; p. 526.
Harrow and leveler, Combined. J. H. B. Hosemann. No. 1,034,619; Aug. 6; Gaz. vol. 181; p. 72.
Harrow and pulverizer, Combined. C. Sjoman. No. 1,028,398; June 4; Sp. p. 736; Gaz. vol. 179; p. 111.
Harrow and roller, Combined. W. E. Younger. No. 1,023,058; Apr. 9; Sp. p. 2779; Gaz. vol. 177; p. 473.
Harrow and seed-planter, Combined. J. A. Erickson. No. 1,023,631; Apr. 16; Sp. p. 3991; Gaz. vol. 177; p. 701.
Harrow and seeder. G. M. Easterling. No. 1,038,100; Sept. 10; Gaz. vol. 182; p. 343.
Harrow and shield, Combined. J. C. Brand. No. 1,025,118; May 7; Sp. p. 7; Gaz. vol. 178; p. 4.
Harrow and stalk-cutter, Combined. R. F. Mayfield. No. 1,046,095; Dec. 3; Gaz. vol. 185; p. 101.
Harrow attachment. W. O. Long. No. 1,039,152; Sept. 24; Gaz. vol. 182; p. 752.
Harrow, Blade-. C. L. Wall. No. 1,018,281; Feb. 20; Sp. p. 4524; Gaz. vol. 175; p. 778.
Harrow-cleaning attachment. H. E. Smock. No. 1,027,920; May 28; Sp. p. 6229; Gaz. vol. 178; p. 1069.
Harrow cultivator attachment. W. L. Kovar and W. Wlha. No. 1,034,255; July 30; Gaz. vol. 180; p. 1315.
Harrow, Disk. J. East. No. 1,013,382; Jan. 2; Sp. p. 649; Gaz. vol. 174; p. 103.
Harrow, Disk. J. W. Kinney. No. 1,020,291; Mar. 12; Sp. p. 2730; Gaz. vol. 176; p. 462.
Harrow, Disk. G. W. Willis. No. 1,021,174; Mar. 26; Sp. p. 4608; Gaz. vol. 176; p. 845.
Harrow, Disk. C. W. Michael. No. 1,026,760; May 21; Sp. p. 3673; Gaz. vol. 178; p. 637.
Harrow, Disk. A. Lindgren. No. 1,033,330; July 23; Gaz. vol. 180; p. 974.
Harrow, Disk. F. K. Lathrop. No. 1,036,652; Aug. 27; Gaz. vol. 181; p. 868.
Harrow, Disk. F. G. Hunt. No. 1,041,797; Oct. 22; Gaz. vol. 183; p. 819.
Harrow-draft-bar attachment. H. Waldschmidt. No. 1,013,573; Jan. 2; Sp. p. 1041; Gaz. vol. 174; p. 166.
Harrow, Flexible. J. L. Townsend. No. 1,029,154; June 11; Sp. p. 2355; Gaz. vol. 179; p. 401.
Harrow, Folding. K. Hilliard. No. 1,033,696; July 23; Gaz. vol. 180; p. 1093.
Harrow for meadows. A. Grünenwald and V. Widder. No. 1,035,000; Aug. 6; Gaz. vol. 181; p. 200.
Harrow gang-equalizer, Disk-. L. B. Wygant. No. 1,022,915; Apr. 9; Sp. p. 2482; Gaz. vol. 177; p. 423.
Harrow, Lever-. A. B. Hays. No. 1,026,394; May 14; Sp. p. 2881; Gaz. vol. 178; p. 478.
Harrow-packing attachment, Disk-. H. R. Adams. No. 1,049,030; Dec. 31; Gaz. vol. 185; p. 1254.
Harrow, Reversible. T. T. Hardt. No. 1,026,912; May 21; Sp. p. 4025; Gaz. vol. 178; p. 690.
Harrow, Revolving. A. P. Teeter. No. 1,020,854; Mar. 19; Sp. p. 3949; Gaz. vol. 176; p. 688.
Harrow, Riding-. J. W. Harmon. No. 1,015,887; Jan. 30; Sp. p. 6154; Gaz. vol. 174; p. 1072.
Harrow, Roller-. J. E. Carlson and G. J. Nason. No. 1,042,889; Oct. 29; Gaz. vol. 183; p. 1220.
Harrow, Rotary. F. Hanson. No. 1,034,364; July 30; Gaz. vol. 180; p. 1353.
Harrow, Rotary. P. A. Blomberg. No. 1,045,250; Nov. 26; Gaz. vol. 184; p. 858.
Harrow, Section-. G. C. Shankle. No. 1,026,411; May 14; Sp. p. 2921; Gaz. vol. 178; p. 484.
Harrow, Self-cleaning rotary. D. A. Helmich. No. 1,045,024; Nov. 19; Gaz. vol. 184; p. 750.
Harrow-tooth fastening. J. H. Anderson. No. 1,023,492; Apr. 16; Sp. p. 3703; Gaz. vol. 177; p. 655.
Harrow wheel-support. L. E. Waterman. No. 1,025,767; May 7; Sp. p. 1451; Gaz. vol. 178; p. 228.
Harrow, Wheeled. S. Hickman. No. 1,015,956; Jan. 30; Sp. p. 6295; Gaz. vol. 174; p. 1096.
Harrows and the like, Antitwisting draft means for. J. W. Rice and J. Fulton. (Reissue.) No. 13,357; Jan. 9; Sp. p. 3427; Gaz. vol. 174; p. 567.
Harvester. J. H. Downing. No. 1,030,652; June 25; Sp. p. 5840; Gaz. vol. 179; p. 1000.
Harvester and binder, Grain. A. L. Powell. No. 1,023,035; Apr 9; Sp. p. 2718; Gaz. vol. 177; p. 464.
Harvester and husk-baler, Corn-. M. A. Gibbons. No. 1,017,625; Feb. 13; Sp. p. 3035; Gaz. vol. 175; p. 512.
Harvester and husker, Corn. W. Clouser. No. 1,014,812; Jan. 16; Sp. p. 3831; Gaz. vol. 174; p. 652.
Harvester and shocker, Corn. J. J. Lonsway. No. 1,014,497; Jan. 9; Sp. p. 3091; Gaz. vol. 174; p. 514.
Harvester and shocker, Corn. A. E. Ebbert. No. 1,037,745; Sept. 3; Gaz. vol. 182; p. 189.
Harvester attachment. D. S. Cantine. No. 1,021,755; Mar. 26; Sp. p. 5820; Gaz. vol. 176; p. 1043.
Harvester attachment. W. Moore. No. 1,022,325; Apr. 2; Sp. p. 1203; Gaz. vol. 177; p. 192.
Harvester attachment. C. K. Wolf. No. 1,038,053; Sept. 10; Gaz. vol. 182; p. 327.
Harvester attachment, Corn-. J. A. Reynolds. No. 1,045,324; Nov. 26; Gaz. vol. 184; p. 882.
Harvester attachment for engines. O. W. Foust. No. 1,023,011; Apr. 9; Sp. p. 2677; Gaz. vol. 177; p. 456.
Harvester, Bean-. V. C. Bryant. No. 1,038,720; Sept. 17; Gaz. vol. 182; p. 591.
Harvester, Beet-. W. Bates. No. 1,013,363; Jan. 2; Sp. p. 603; Gaz. vol. 174; p. 96.
Harvester, Beet-. G. H. Smith. No. 1,026,714; May 21; Sp. p. 3565; Gaz. vol. 178; p. 622.
Harvester, Beet-. G. H. Smith. No. 1,026,835; May 21; Sp. p. 3840; Gaz. vol. 178; p. 663.
Harvester, Beet-. N. G. Lawson. No. 1,031,189; July 2; Gaz. vol. 180; p. 121.
Harvester, Beet-. F. C. Kinder. No. 1,031,274; July 2; Gaz. vol. 180; p. 150.
Harvester, Beet-. J. F. Appleby. No. 1,044,472; Nov. 19; Gaz. vol. 184; p. 558.
Harvester, Beet-. W. F. Hipes. No. 1,044,526; Nov. 19; Gaz. vol. 184; p. 576.
Harvester, Beet-. L. De Vries. No. 1,045,819; Dec. 3; Gaz. vol. 185; p. 8.
Harvester, Beet-. F. Briggs. No. 1,046,550; Dec. 10; Gaz. vol. 185; p. 301.
Harvester, Broom-corn. B. Titus. No. 1,034,044; July 30; Gaz. vol. 180; p. 1242.
Harvester, Cane-. A. Gerdes. No. 1,022,313; Apr. 2; Sp. p. 1163; Gaz. vol. 177; p. 187.
Harvester, Corn-. J. Hettrich. No. 1,014,473; Jan. 9; Sp. p. 3051; Gaz. vol. 174; p. 506.
Harvester, Corn-. A. A. Dorsey. No. 1,015,942; Jan. 30; Sp. p. 6268; Gaz. vol. 174; p. 1091.
Harvester, Corn-. A. P. Gubrud. No. 1,016,623; Feb. 6; Sp. p. 909; Gaz. vol. 175; p. 136.
Harvester, Corn-. H. P. Troutman. No. 1,017,823; Feb. 20; Sp. p. 3515; Gaz. vol. 175; p. 617.
Harvester, Corn-. E. Howe. No. 1,031,004; July 2; Gaz. vol. 180; p. 54.
Harvester, Corn-. C. H. Habecker. No. 1,035,434; Aug. 13; Gaz. vol. 181; p. 380.
Harvester, Corn-. J. B. Ouren. No. 1,039,180; Sept. 24; Gaz. vol. 182; p. 762.
Harvester, Corn-. J. N. D. Hamacher. No. 1,041,070; Oct. 15; Gaz. vol. 183; p. 539.
Harvester, Corn-. M. J. Glick. No. 1,043,313; Nov. 5; Gaz. vol. 184; p. 96.
Harvester, Cotton-. R. C. Scherling. No. 1,035,645; Aug. 13; Gaz. vol. 181; p. 451.
Harvester, Cotton-. L. L. Upshaw. No. 1,041,202; Oct. 15; Gaz. vol. 183; p. 583.
Harvester, Cotton-. G. Lispenard. No. 1,041,309; Oct. 15; Gaz. vol. 183; p. 620.
Harvester, Cotton-. J. B. Marshel. No. 1,042,703; Oct. 29; Gaz. vol. 183; p. 1156.
Harvester, Ensilage-. J. Weigel. No. 1,021,855; Apr. 2; Sp. p. 223; Gaz. vol. 177; p. 37.
Harvester, Grain-. C. F. Jahns. No. 1,019,651; Mar. 5; Sp. p. 1419; Gaz. vol. 176; p. 218.
Harvester grain-divider. J. H. Downing. No. 1,033,088; July 23; Gaz. vol. 180; p. 891.
Harvesters, Grain-dividing attachment for. C. C. Leineweber. No. 1,025,753; May 7; Sp. p. 1424; Gaz. vol. 178; p. 223.
Harvester, Kafir-corn. D. L. Frank and S. B. Peter. No. 1,047,031; Dec. 10; Gaz. vol. 185; p. 465.
Harvester, Marine. R. Brooks. No. 1,028,671; June 4; Sp. p. 1308; Gaz. vol. 179; p. 201.
Harvester motor attachment. L. Holland-Letz. No. 1,014,823; Jan. 16; Sp. p. 3864; Gaz. vol. 174; p. 656.
Harvester motor attachment. B. R. Benjamin. No. 1,041,952; Oct. 22; Gaz. vol. 183; p. 872.
Harvester, Pea-. E. O. Hutsell. No. 1,028,072; May 28; Sp. p. 6543; Gaz. vol. 178; p. 1117.
Harvester, Peanut-. C. C. Needham. No. 1,047,108; Dec. 10; Gaz. vol. 185; p. 491.
Harvester, Potato-. C. Mowry. No. 1,018,071; Feb. 20; Sp. p. 4101; Gaz. vol. 175; p. 706.
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Harvester, Potato-. A. Baas. No. 1,032,175; July 9; Gaz. vol. 180; p. 499.
Harvester, Potato-. J. P. Brennan. No. 1,042,640; Oct. 29; Gaz. vol. 183; p. 1134.
Harvester-reel. F. M. Baker. No. 1,039,631; Sept. 24; Gaz. vol. 182; p. 921.
Harvester-reel and support therefor. W. E. Bennett. No. 1,013,636; Jan. 2; Sp. p. 1185; Gaz. vol. 174; p. 189.
Harvester, Sidehill-. C. L. Best. No. 1,020,391; Mar. 12; Sp. p. 2916; Gaz. vol. 176; p. 494.
Harvester, Tea-. H. T. Coldwell. No. 1,024,499; Apr. 30; Sp. p. 5901; Gaz. vol. 177; p. 1055.
Harvester, Vegetable-. M. Stolts. No. 1,016,976; Feb. 13; Sp. p. 1658; Gaz. vol. 175; p. 291.
Harvester with side truck, Potato-. G. W. Bruce. No. 1,019,754; Mar. 12; Sp. p. 1624; Gaz. vol. 176; p. 283.
Harvesters and the like, Tandem draft connection for. W. and R. A. Caswell. No. 1,044,744; Nov. 19; Gaz. vol. 184; p. 653.
Harvesters, Binder-head for. J. L. Ware. No. 1,039,853; Oct. 1; Gaz. vol. 183; p. 62.
Harvesters, Binding mechanism for corn-. L. E. Parsons. No. 1,021,948; Apr. 2; Sp. p. 414; Gaz. vol. 177; p. 68.
Harvesters, Butt-removing attachment for corn-. W. H. Morris. No. 1,017,987; Feb. 20; Sp. p. 3908; Gaz. vol. 175; p. 676.
Harvesters, Cutting mechanism for corn-. W. H. Tilson. No. 1,028,799; June 4; Sp. p. 1569; Gaz. vol. 179; p. 245.
Harvesters, Flax and other grain attachment for. F. Linha. No. 1,023,113; Apr. 9; Sp. p. 2891; Gaz. vol. 177; p. 492.
Harvesters, Retarder for self-binding. J. A. Hillenbrand. No. 1,019,960; Mar. 12; Sp. p. 2039; Gaz. vol. 176; p. 352.
Harvesters, Tandem draft connection for. C. Pearson. No. 1,013,894; Jan. 9; Sp. p. 1795; Gaz. vol. 174; p. 308.
Harvesters, Twisting mechanism for corn-. L. E. Parsons. No. 1,021,947; Apr. 2; Sp. p. 407; Gaz. vol. 177; p. 67.
Harvesting and husking machine. C. G. Fleming. No. 1,037,826; Sept. 3; Gaz. vol. 182; p. 216.
Harvesting-machine. G. W. Patterson. No. 1,034,498; Aug. 6; Gaz. vol. 181; p. 33.
Harvesting-machine. N. P. Diunkopky. No. 1,036,467; Aug. 20; Gaz. vol. 181; p. 772.
Harvesting machine, Corn-. C. E. Balkema. No. 1,015,281; Jan. 23; Sp. p. 4831; Gaz. vol. 174; p. 837.
Harvesting machine, Corn-. C. A. Sattley. No. 1,030,615; June 25; Sp. p. 5726; Gaz. vol. 179; p. 987.
Harvesting machine, Corn-. O. P. Vroom. No. 1,033,360; July 23; Gaz. vol. 180; p. 984.
Harvesting machine, Corn-. W. S. Baird. No. 1,042,371; Oct. 22; Gaz. vol. 183; p. 1010.
Harvesting machine, Cotton-. A. L. Jackson. No. 1,014,880; Jan. 16; Sp. p. 3998; Gaz. vol. 174; p. 676.
Harvesting machine, Cotton-. J. F. Appleby. No. 1,024,714; Apr. 30; Sp. p. 6414; Gaz. vol. 177; p. 1130.
Harvesting-machine for beet-roots, &c. J. Massart. No. 1,031,356; July 2; Gaz. vol. 180; p. 178.
Harvesting-machine motor attachment. A. Johnson. No. 1,024,201; Apr. 23; Sp. p. 5248; Gaz. vol. 177; p. 919.
Harvesting-machine pitman connection. J. H. Downing. No. 1,029,533; June 11; Sp. p. 3163; Gaz. vol. 179; p. 531.
Harvesting machine, Potato, &c. H. J. Daniels. No. 1,033,675; July 23; Gaz. vol. 180; p. 1087.
Harvesting-machine reel-support. J. F. Steward. No. 1,045,210; Nov. 26; Gaz. vol. 184; p. 843.
Harvesting-machine snapping mechanism, Corn-. W. S. Baird. No. 1,035,518; Aug. 13; Gaz. vol. 181; p. 409.
Harvesting-machine trip device. C. O. Bolen. No. 1,039,690; Oct. 1; Gaz. vol. 183; p. 6.
Harvesting process and apparatus, Cotton-. W. R. McComb. No. 1,041,650; Oct. 15; Gaz. vol. 183; p. 731.
Hasp. O. C. Shaffer. No. 1,029,237; June 11; Sp. p. 2534; Gaz. vol. 179; p. 429.
Hasp-fastener. G. Untch. No. 1,017,709; Feb. 20; Sp. p. 3214; Gaz. vol. 175; p. 577.
Hasp-fastener. J. Gerschi. No. 1,022,839; Apr. 9; Sp. p. 2326; Gaz. vol. 177; p. 398.
Hasp-fastener. R. E. Matthews. No. 1,023,747; Apr. 16; Sp. p. 4182; Gaz. vol. 177; p. 734.
Hasp-fastener for doors. F. W. Chaffee. No. 1,017,135; Feb. 13; Sp. p. 2021; Gaz. vol. 175; p. 347.
Hasp-fastener for doors. F. W. Chaffee. No. 1,017,136; Feb. 13; Sp. p. 2023; Gaz. vol. 175; p. 347.
Hasp-hook. H. E. Protz. No. 1,023,680; Apr. 16; Sp. p. 4067; Gaz. vol. 177; p. 714.
Hasp-lock. M. Milewski. No. 1,027,878; May 28; Sp. p. 6143; Gaz. vol. 178; p. 1055.
Hasp-lock. W. H. Conrad. No. 1,040,889; Oct. 8; Gaz. vol. 183; p. 443.
Hasp-lock. H. F. Jones. No. 1,045,983; Dec. 3; Gaz. vol. 185; p. 64.
Hat. F. W. Nash. No. 1,016,892; Feb. 6; Sp. p. 1447; Gaz. vol. 175; p. 225.
Hat. L. Stevens. No. 1,024,750; Apr. 30; Sp. p. 6492; Gaz. vol. 177; p. 1143.
Hat. J. H. Matson. No. 1,035,209; Aug. 13; Gaz. vol. 181; p. 300.
Hat. A. Munchausen. No. 1,045,060; Nov. 19; Gaz. vol. 184; p. 763.
Hat and coat hanger. F. Pearce. No. 1,025,831; May 7; Sp. p. 1579; Gaz. vol. 178; p. 250.
Hat and coat rack, Safety. C. H. Clark. No. 1,043,398; Nov. 5; Gaz. vol. 184; p. 126.
Hat and head covering. J. M. Kerr. No. 1,020,912; Mar. 19; Sp. p. 4044; Gaz. vol. 176; p. 706.
Hat and veil pin. R. J. Heavenrich. No. 1,027,651; May 28; Sp. p. 5604; Gaz. vol. 178; p. 979.
Hat block, telescoper, and presser. J. H. Cohn. No. 1,014,813; Jan. 16; Sp. p. 3834; Gaz. vol. 174; p. 652.
Hat blocking or shaping machine. G. Atherton. No. 1,044,002; Nov. 12; Gaz. vol. 184; p. 368.
Hat-bodies, Machine for planking felt. P. Nebbia. No. 1,025,711; May 7; Sp. p. 1332; Gaz. vol. 178; p. 207.
Hat-body-clearing machine. A. Roelofs. No. 1,013,315; Jan. 2; Sp. p. 507; Gaz. vol. 174; p. 80.
Hat-box. U. Ullitz. No. 1,040,060; Oct. 1; Gaz. vol. 183; p. 130.
Hat-box, Folding. A. T. Fitzgerald. No. 1,040,300; Oct. 8; Gaz. vol. 183; p. 241.
Hat-brim-stretching machine. G. Schofield. No. 1,013,321; Jan. 2; Sp. p. 518; Gaz. vol. 174; p. 82.
Hat-carton. G. Walters. No. 1,029,960; June 18; Sp. p. 4136; Gaz. vol. 179; p. 716.
Hat, coat, and umbrella rack, Coin-operated. C. Caruso. No. 1,025,860; May 7; Sp. p. 1651; Gaz. vol. 178; p. 259.
Hat-conformator. J. R. McKinless. No. 1,017,009; Feb. 13; Sp. p. 1731; Gaz. vol. 175; p. 302.
Hat-conformator. H. M. Darmstadter. No. 1,030,978; July 2; Gaz. vol. 180; p. 45.
Hat-fastener. J. Payer. No. 1,021,111; Mar. 26; Sp. p. 4455; Gaz. vol. 176; p. 824.
Hat-fastener. H. J. Yorty. No. 1,034,855; Aug. 6; Gaz. vol. 181; p. 154.
Hat-fastener. H. Dippel. No. 1,037,736; Sept. 3; Gaz. vol. 182; p. 187.
Hat-fastener. J. Zalowitz. No. 1,048,259; Dec. 24; Gaz. vol. 185; p. 948.
Hat-fastener, Lady's. J. Belasco. No. 1,017,372; Feb. 13; Sp. p. 2525; Gaz. vol. 175; p. 427.
Hat-fastening device. J. Jambretz. No. 1,032,140; July 9; Gaz. vol. 180; p. 486.
Hat-fastening device. V. E. Fifer. No. 1,038,105; Sept. 10; Gaz. vol. 182; p. 344.
Hat-fastening device. J. Corcos. No. 1,039,100; Sept. 24; Gaz. vol. 182; p. 735.
Hat-form. I. S. Kallis and J. Berg. No. 1,037,017; Aug. 27; Gaz. vol. 181; p. 989.
Hat-frame-forming device. J. Nattenheimer. No. 1,046,006; Dec. 3; Gaz. vol. 185; p. 71.
Hat-frame machine. M. M. Ayes. No. 1,017,841; Feb. 20; Sp. p. 3560; Gaz. vol. 175; p. 624.
Hat-guard. C. E. Waterworth. No. 1,021,647; Mar. 26; Sp. p. 5603; Gaz. vol. 176; p. 1007.
Hat-holder. J. Kwarnstrom. No. 1,014,156; Jan. 9; Sp. p. 2369; Gaz. vol. 174; p. 396.
Hat-holder. E. H. Mayo. No. 1,027,138; May 21; Sp. p. 4572; Gaz. vol. 178; p. 768.
Hat-holder. L. Viezzi. No. 1,027,942; May 28; Sp. p. 6267; Gaz. vol. 178; p. 1076.
Hat-nap-raising machine. J. H. Starr. No. 1,014,419; Jan. 9; Sp. p. 2956; Gaz. vol. 174; p. 490.
Hat or bonnet pin protector. A. Beutner. No. 1,026,942; May 21; Sp. p. 4119; Gaz. vol. 178; p. 701.
Hat or cap, Adjustable. C. I. Minkhoff and L. Kronthal. No. 1,014,505; Jan. 9; Sp. p. 3111; Gaz. vol. 174; p. 517.
Hat-ornament band and hat-pin protector, Combined. C. W. Schleier. No. 1,034,310; July 30; Gaz. vol. 180; p. 1333.
Hat packing-ring. P. Berg. No. 1,024,243; Apr. 23; Sp. p. 5340; Gaz. vol. 177; p. 936.
Hat-pin. O. Korndoerfer. No. 1,016,420; Feb. 6; Sp. p. 408; Gaz. vol. 175; p. 64.
Hat-pin. S. Stransky. No. 1,016,719; Feb. 6; Sp. p. 1099; Gaz. vol. 175; p. 169.
Hat-pin. A. B. Kokernot. No. 1,023,659; Apr. 16; Sp. p. 4038; Gaz. vol. 177; p. 708.
Hat-pin. T. M. Daniels. No. 1,027,375; May 21; Sp. p. 5044; Gaz. vol. 178; p. 849.
Hat-pin, Adjustable and safety. C. Fortesque. No. 1,036,088; Aug. 20; Gaz. vol. 181; p. 639.
Hat-pin, Extensible. W. R. Newman. No. 1,043,027; Oct. 29; Gaz. vol. 183; p. 1267.
Hat-pin fastener. L. Luckock. No. 1,018,200; Feb. 20; Sp. p. 4372; Gaz. vol. 175; p. 750.
Hat-pin fastener. A. F. Graul. No. 1,042,108; Oct. 22; Gaz. vol. 183; p. 925.
Hat-pin fastener and guard. M. Rasmussen. No. 1,014,176; Jan. 9; Sp. p. 2406; Gaz. vol. 174; p. 403.
Hat-pin fastener and point protector. J. M. Chritton. No. 1,044,989; Nov. 19; Gaz. vol. 184; p. 738.
Hat-pin guard. M. Schneider. No. 1,013,957; Jan. 9; Sp. p. 1948; Gaz. vol. 174; p. 330.
Hat-pin guard. R. Meyer. No. 1,014,838; Jan. 16; Sp. p. 3907; Gaz. vol. 174; p. 662.
Hat-pin guard. N. Wetzel. No. 1,015,366; Jan. 23; Sp. p. 5029; Gaz. vol. 174; p. 868.

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Hat-pin guard. T. Sokolowski and W. Buszek. No. 1,017,817; Feb. 20; Sp. p. 3506; Gaz. vol. 175; p. 616.
Hat-pin guard. H. Roberts. No. 1,019,840; Mar. 12; Sp. p. 1773; Gaz. vol. 176; p. 311.
Hat-pin guard. A. E. Aldridge. No. 1,019,938; Mar. 12; Sp. p. 1999; Gaz. vol. 176; p. 345.
Hat-pin guard. A. Mueller. No. 1,020,653; Mar. 19; Sp. p. 3504; Gaz. vol. 176; p. 619.
Hat-pin guard. J. J. Vallier. No. 1,020,784; Mar. 19; Sp. p. 3790; Gaz. vol. 176; p. 664.
Hat-pin guard. E. Doucet. No. 1,020,890; Mar. 19; Sp. p. 4007; Gaz. vol. 176; p. 699.
Hat-pin guard. J. W. Bieracki. No. 1,022,120; Apr. 2; Sp. p. 779; Gaz. vol. 177; p. 124.
Hat-pin guard. A. C. De Sheppard. No. 1,029,049; June 11; Sp. p. 2132; Gaz. vol. 179; p. 367.
Hat-pin guard. K. G. Dieffenbacher. No. 1,035,694; Aug. 13; Gaz. vol. 181; p. 467.
Hat-pin guard. J. A. Dick and J. P. Sinclair. No. 1,038,312; Sept. 10; Gaz. vol. 182; p. 413.
Hat-pin guard. J. J. Van Vliet. No. 1,041,381; Oct. 15; Gaz. vol. 183; p. 643.
Hat-pin guard. A. Kachel. No. 1,043,841; Nov. 12; Gaz. vol. 184; p. 311.
Hat-pin guard. L. Lasson. No. 1,047,539; Dec. 17; Gaz. vol. 185; p. 676.
Hat-pin guard and point protector. E. C. Meckfessel and A. J. Weil. No. 1,034,921; Aug. 6; Gaz. vol. 181; p. 174.
Hat-pin guard and protector, Combined. S. G. K. Payne. No. 1,019,695; Mar. 5; Sp. p. 1494; Gaz. vol. 176; p. 232.
Hat-pin guard and retainer. C. H. Frank and C. Herman. No. 1,041,766; Oct. 22; Gaz. vol. 183; p. 807.
Hat-pin head, Detachable. W. L. Friedman. No. 1,020,754; Mar. 19; Sp. p. 3728; Gaz. vol. 176; p. 654.
Hat-pin holder and point protector, Combined. F. B. Reynolds. No. 1,045,887; Dec. 3; Gaz. vol. 185; p. 32.
Hat-pin holder and sheath. H. S. Deaner. No. 1,020,131; Mar. 12; Sp. p. 2398; Gaz. vol. 176; p. 409.
Hat-pin, Lady's. W. I. Macomber. No. 1,016,697; Feb. 6; Sp. p. 1053; Gaz. vol. 175; p. 161.
Hat-pin-point guard. J. A. Fleming. No. 1,040,021; Oct. 8; Gaz. vol. 183; p. 454.
Hat-pin-point-protecting device. M. Dusetzina. No. 1,046,282; Dec. 3; Gaz. vol. 185; p. 169.
Hat-pin-point protector. F. Reichenbach. No. 1,013,814; Jan. 2; Sp. p. 1578; Gaz. vol. 174; p. 257.
Hat-pin-point protector. F. Trojan. No. 1,015,099; Jan. 16; Sp. p. 4461; Gaz. vol. 174; p. 751.
Hat-pin-point protector. G. F. Dillon. No. 1,016,678; Feb. 6; Sp. p. 1015; Gaz. vol. 175; p. 154.
Hat-pin-point protector. L. Barbalicz. No. 1,018,290; Feb. 20; Sp. p. 4552; Gaz. vol. 175; p. 781.
Hat-pin-point protector. M. R. Hartzell. No. 1,019,466; Mar. 5; Sp. p. 1060; Gaz. vol. 176; p. 156.
Hat-pin-point protector. G. Balog. No. 1,020,394; Mar. 19; Sp. p. 2935; Gaz. vol. 176; p. 533.
Hat-pin-point protector. C. Ekker. No. 1,022,833; Apr. 9; Sp. p. 2318; Gaz. vol. 177; p. 396.
Hat-pin-point protector. J. Kubicek. No. 1,023,663; Apr. 16; Sp. p. 4045; Gaz. vol. 177; p. 709.
Hat-pin-point protector. M. Strba. No. 1,023,688; Apr. 16; Sp. p. 4084; Gaz. vol. 177; p. 716.
Hat-pin-point protector. J. Balazs. No. 1,023,710; Apr. 16; Sp. p. 4124; Gaz. vol. 177; p. 723.
Hat-pin-point protector. O. G. Lee. No. 1,029,379; June 11; Sp. p. 2850; Gaz. vol. 179; p. 479.
Hat-pin-point protector. M. Rosenthal. No. 1,031,201; July 2; Gaz. vol. 180; p. 125.
Hat-pin-point protector. A. D. Gillespie. No. 1,031,437; July 2; Gaz. vol. 180; p. 205.
Hat-pin-point protector. L. Nagy. No. 1,033,450; July 23; Gaz. vol. 180; p. 1013.
Hat-pin-point protector. S. Papanek. No. 1,037,043; Aug. 27; Gaz. vol. 181; p. 998.
Hat-pin-point protector. B. Olas. No. 1,038,945; Sept. 17; Gaz. vol. 182; p. 668.
Hat-pin-point protector. A. Jaschke. No. 1,041,291; Gaz. 15; Gaz. vol. 183; p. 615.
Hat-pin-point protector. C. F. Gaunt and A. Allen. No. 1,043,415; Nov. 5; Gaz. vol. 184; p. 132.
Hat-pin-point protector. M. H. Miller. No. 1,048,568; Dec. 31; Gaz. vol. 185; p. 1093.
Hat-pin-point protector and fastener. J. Kubinyi. No. 1,037,025; Aug. 27; Gaz. vol. 181; p. 992.
Hat-pin protector. C. E. Hoops. No. 1,016,943; Feb. 13; Sp. p. 1581; Gaz. vol. 175; p. 279.
Hat-pin protector. J. O. and H. Pelchat. No. 1,019,697; Mar. 5; Sp. p. 1497; Gaz. vol. 176; p. 232.
Hat-pin protector. C. A. Huffmaster. No. 1,024,337; Apr. 23; Sp. p. 5505; Gaz. vol. 177; p. 965.
Hat-pin protector. E. B. Eckhart. No. 1,024,563; Apr. 30; Sp. p. 6084; Gaz. vol. 177; p. 1077.
Hat-pin protector. E. W. Roberts. No. 1,025,722; May 7; Sp. p. 1363; Gaz. vol. 178; p. 212.
Hat-pin protector. J. Kwiatkowski. No. 1,031,940; July 9; Gaz. vol. 180; p. 421.
Hat-pin protector. R. L. Slonaker. No. 1,034,316; July 30; Gaz. vol. 180; p. 1335.
Hat-pin protector. P. H. Alpp. No. 1,040,841; Oct. 8; Gaz. vol. 183; p. 427.
Hat-pin protector or guard. C. H. Giese, Jr. No. 1,024,325; Apr. 23; Sp. p. 5484; Gaz. vol. 177; p. 962.
Hat-pin retainer. M. Szekely. No. 1,014,423; Jan. 9; Sp. p. 2964; Gaz. vol. 174; p. 492.
Hat-pin, Safety. W. S. Childress. No. 1,020,384; Mar. 12; Sp. p. 2906; Gaz. vol. 176; p. 492.
Hat-pin, Safety. C. B. F. Weidlog. No. 1,020,938; Mar. 19; Sp. p. 4093; Gaz. vol. 176; p. 715.
Hat-pin, Safety. H. Wolfgang. No. 1,032,795; July 16; Gaz. vol. 180; p. 756.
Hat-pin, Safety. L. C. B. Sharinghousen. No. 1,043,155; Nov. 5; Gaz. vol. 184; p. 38.
Hat-pin safety-tip. J. F. Hattan. No. 1,049,324; Dec. 31; Gaz. vol. 185; p. 1354.
Hat-pin shield. M. Allabough. No. 1,034,331; July 30; Gaz. vol. 180; p. 1340.
Hat-pouncing machine. H. Holmes. No. 1,018,562; Feb. 27; Sp. p. 5218; Gaz. vol. 175; p. 907.
Hat-pouncing machine. R. Kilpper. No. 1,037,925; Sept. 10; Gaz. vol. 182; p. 285.
Hat-press. R. Rowland. No. 1,043,466; Nov. 5; Gaz. vol. 184; p. 151.
Hat presser and shaper. C. C. Reitz. No. 1,018,680; Feb. 27; Sp. p. 5455; Gaz. vol. 175; p. 946.
Hat-pressing machine. G. Cipriano. No. 1,044,746; Nov. 19; Gaz. vol. 184; p. 654.
Hat-protector. L. Wener. No. 1,038,042; Sept. 10; Gaz. vol. 182; p. 324.
Hat-rack, Portable. J. W. Craft. No. 1,027,596; May 28; Sp. p. 5497; Gaz. vol. 178; p. 961.
Hat-retainer. M. Mandak. No. 1,030,906; July 2; Gaz. vol. 180; p. 19.
Hat-retaining device. C. and G. Weiss. No. 1,048,114; Dec. 24; Gaz. vol. 185; p. 900.
Hat-rounding machine. E. M. Lyman. No. 1,047,543; Dec. 17; Gaz. vol. 185; p. 677.
Hat-trimming stand. F. Hermann. No. 1,014,393; Jan. 9; Sp. p. 2905; Gaz. vol. 174; p. 481.
Hat, Ventilated. A. H. Revell. No. 1,036,004; Aug. 20; Gaz. vol. 181; p. 608.
Hat, Ventilated. J. E. Smith and W. F. Sult. No. 1,039,605; Sept. 24; Gaz. vol. 182; p. 912.
Hat-weight. D. Nelson. No. 1,041,330; Oct. 15; Gaz. vol. 183; p. 627.
Hat-wire connector. G. B. Sherman. No. 1,040,790; Oct. 8; Gaz. vol. 183; p. 412.
Hats and garments, Device for supporting. C. J. Quinlan. No. 1,045,436; Nov. 26; Gaz. vol. 184; p. 921.
Hats and other articles, Manufacturing. L. Schmoulousky. No. 1,020,314; Mar. 12; Sp. p. 2772; Gaz. vol. 176; p. 469.
Hats and the like, Protective covering for. H. Berlin and M. J. Fogarty. No. 1,044,977; Nov. 19; Gaz. vol. 184; p. 733.
Hats, caps, or bonnets to the head, Device for securing. A. T. Gardner. No. 1,047,780; Dec. 17; Gaz. vol. 185; p. 761.
Hats, Manufacture of. W. W. Martin. No. 1,037,032; Aug. 27; Gaz. vol. 181; p. 994.
Hats, Manufacture of felt and like. F. Royle. No. 1,043,731; Nov. 5; Gaz. vol. 184; p. 241.
Hats, Nap-raising machine for felt. J. H. Starr. No. 1,017,924; Feb. 20; Sp. p. 3771; Gaz. vol. 175; p. 655.
Hats, Nap-raising machine for felt. G. E. Brush. No. 1,017,952; Feb. 20; Sp. p. 3830; Gaz. vol. 175; p. 664.
Hatch-cover fastener. E. Y. Moore and M. Mulholland. No. 1,019,343; Mar. 5; Sp. p. 750; Gaz. vol. 176; p. 117.
Hatch-fastener. W. Craigie. No. 1,019,226; Mar. 5; Sp. p. 485; Gaz. vol. 176; p. 77.
Hatchway-cover. J. Weir. No. 1,013,912; Jan. 9; Sp. p. 1837; Gaz. vol. 174; p. 314.
Hatchway-cover-shifting mechanism. E. J. Potvin. No. 1,018,777; Feb. 27; Sp. p. 5666; Gaz. vol. 175; p. 979.
Hatchet and adz, Combined. E. W. James. No. 1,021,931; Apr. 2; Sp. p. 370; Gaz. vol. 177; p. 61.
Hay and grain loader. D. M. Myers. No. 1,019,344; Mar. 5; Sp. p. 752; Gaz. vol. 176; p. 117.
Hay and shock loader. C. Christiansen. No. 1,029,791; June 18; Sp. p. 3740; Gaz. vol. 179; p. 658.
Hay and straw press, Manually-operated. E. Pulifici. No. 1,043,358; Nov. 5; Gaz. vol. 184; p. 113.
Hay-cutter. J. S. Steel. No. 1,033,485; July 23; Gaz. vol. 180; p. 1025.
Hay-distributer. N. C. Miller. No. 1,025,708; May 7; Sp. p. 1325; Gaz. vol. 178; p. 207.
Hay-fork. F. L. Baker. No. 1,041,572; Oct. 15; Gaz. vol. 183; p. 705.
Hay-fork. H. L. Duxstad. No. 1,046,567; Dec. 10; Gaz. vol. 185; p. 307.
Hay-grinding machine. S. C. Roberts. No. 1,027,765; May 28; Sp. p. 5834; Gaz. vol. 178; p. 1015.
Hay-handling appliance. W. A. Bailey. No. 1,021,085; Mar. 26; Sp. p. 4406; Gaz. vol. 176; p. 817.
Hay in the fields, Device for curing. J. Liesenfeld. No. 1,017,429; Feb. 13; Sp. p. 2656; Gaz. vol. 175; p. 449.
Hay-loader. C. O. Davis. No. 1,027,465; May 28; Sp. p. 5228; Gaz. vol. 178; p. 917.

Alphabetical list of inventions—Continued.

Hay-loader. A. Otto, Jr. No. 1,027,885; May 28; Sp. p. 6163; Gaz. vol. 178; p. 1057.
Hay-loader. C. C. Reynolds. No. 1,031,027; July 2; Gaz. vol. 180; p. 63.
Hay-loader. M. Griffiths. No. 1,035,580; Aug. 13; Gaz. vol. 181; p. 430.
Hay-loader. D. C. Crook. No. 1,036,458; Aug. 20; Gaz. vol. 181; p. 769.
Hay-loader. C. H. Lyons. No. 1,039,558; Sept. 24; Gaz. vol. 182; p. 896.
Hay-loader. W. Allen. No. 1,042,748; Oct. 29; Gaz. vol. 183; p. 1172.
Hay-loader. W. A. Smith. No. 1,047,715; Dec. 17; Gaz. vol. 185; p. 739.
Hay loader and rake, Combined. E. J. Williams. No. 1,021,648; Mar. 26; Sp. p. 5605; Gaz. vol. 176; p. 1008.
Hay-loader attachment. P. R. Lovell and E. H. Michael. No. 1,017,433; Feb. 13; Sp. p. 2662; Gaz. vol. 175; p. 450.
Hay-loader coupling. S. A. Slauson. No. 1,033,766; July 23; Gaz. vol. 180; p. 1115.
Hay loading and stacking apparatus. E. Howland. No. 1,047,944; Dec. 24; Gaz. vol. 185; p. 846.
Hay-loading device. L. W. Barnhart. No. 1,030,155; June 18; Sp. p. 4527; Gaz. vol. 179; p. 782.
Hay or grain gathering machine. T. S. Hamilton. No. 1,022,733; Apr. 9; Sp. p. 2117; Gaz. vol. 177; p. 363.
Hay-press. L. Trabue and H. F. Owen. No. 1,013,464; Jan. 2; Sp. p. 819; Gaz. vol. 174; p. 131.
Hay-press. A. H. Perry. No. 1,015,207; Jan. 16; Sp. p. 4661; Gaz. vol. 174; p. 787.
Hay-press. F. W. Tanner. No. 1,017,822; Feb. 20; Sp. p. 3514; Gaz. vol. 175; p. 617.
Hay-press. F. Seehafer and W. Prahl. No. 1,040,786; Oct. 8; Gaz. vol. 183; p. 410.
Hay-press. J. James. No. 1,043,598; Nov. 5; Gaz. vol. 184; p. 197.
Hay-press. E. G. Cook. No. 1,044,142; Nov. 12; Gaz. vol. 184; p. 414.
Hay-press. E. L. Wetzig. No. 1,044,318; Nov. 12; Gaz. vol. 184; p. 475.
Hay-press. J. Dain. No. 1,045,125; Nov. 26; Gaz. vol. 184; p. 813.
Hay-press. D. J. Wolfe. No. 1,048,623; Dec. 31; Gaz. vol. 185; p. 1112.
Hay-presses, Power-whip for. H. Brown. No. 1,029,586; June 18; Sp. p. 3282; Gaz. vol. 179; p. 585.
Hay-presser. H. C. Cashon. No. 1,029,422; June 11; Sp. p. 2952; Gaz. vol. 179; p 494.
Hay-rack. W. A. Heublein. No. 1,015,228; Jan. 16; Sp. p. 4705; Gaz. vol. 174; p. 793.
Hay-rack. J. E. Edmonds. No. 1,018,175; Feb. 20; Sp. p. 4323; Gaz. vol. 175; p. 742.
Hay-rack. W. Wehmiller. No. 1,023,902; Apr. 23; Sp. p. 4572; Gaz. vol. 177; p. 815.
Hay-rack. J. Zbornik. No. 1,025,939; May 7; Sp. p. 1855; Gaz. vol. 178; p. 286.
Hay-rack. O. L. Hays. No. 1,031,068; July 2; Gaz. vol. 180; p. 79.
Hay-rack. H. C. Schroeder. No. 1,043,469; Nov. 5; Gaz. vol. 184; p. 152.
Hay-rack. W. A. Hunt. No. 1,046,069; Dec. 3; Gaz. vol 185; p. 92.
Hay-rack, Wagon. P. Jess. No. 1,028,733; June 4; Sp. p. 1429; Gaz. vol. 179; p. 222.
Hay-rake. J. F. Greer and J. S. Witherell. No. 1,031,998; July 9; Gaz. vol. 180; p. 430.
Hay rake and loader. H. E. Ellison. No. 1,016,740; Feb. 6; Sp. p. 1138; Gaz. vol. 175; p. 175.
Hay rake and loader. C. Christiansen. No. 1,029,790; June 18; Sp. p. 3737; Gaz. vol. 179; p. 658.
Hay rake and loader, Combined. A. K. Bishop. No. 1,043,563; Nov. 5; Gaz. vol. 184; p. 185.
Hay rake and tumbler. J. Martin. No. 1,044,213; Nov. 12; Gaz. vol. 184; p. 439.
Hay raking and cocking machine. H. Schneider. No. 1,048,595; Dec. 31; Gaz. vol. 185; p. 1102.
Hay-retainer. W. Minniear. No. 1,045,426; Nov. 26; Gaz. vol. 184; p. 918.
Hay-retainer, Overthrow. M. T. and E. B. Shields and W. L. McGuire. No. 1,025,320; May 7; Sp. p. 483; Gaz. vol. 178; p. 75.
Hay-shocker. O. H. Watkins. No. 1,039,230; Sept. 24; Gaz. vol. 182; p. 781.
Hay-sling. E. Thompson. No. 1,032,252; July 9; Gaz. vol. 180; p. 526.
Hay-sling. A. J. Roberts. No. 1,045,748; Nov. 26; Gaz. vol. 184; p. 1033.
Hay, stock, and fowl rack, Combined. L. Boldig. No. 1,048,799; Dec. 31; Gaz. vol. 185; p. 1175.
Head-covering. G. Thorpe. No. 1,040,461; Oct. 8; Gaz. vol. 183; p. 295.
Head-covering. J. P. McDevitt. No. 1,046,478; Dec. 10; Gaz. vol. 185; p. 275.
Head-gate. A. Robertson. No. 1,027,903; May 28; Sp. p. 6204; Gaz. vol. 178; p. 1064.
Head-gate. E. T. Green. No. 1,031,544; July 2; Gaz. vol. 180; p. 241.
Head-gate. G. L. Hess. No. 1,041,626; Oct. 15; Gaz. vol. 183; p. 722.
Head-gate. J. R. and T. A. Ludiker. No. 1,047,423; Dec. 17; Gaz. vol. 185; p. 634.
Head-gate, Radial. N. L. Hall. No. 1,036,613; Aug. 27; Gaz. vol. 181; p. 856.
Head-rest. J. M. Kaplan. No. 1,033,905; July 30; Gaz. vol. 180; p. 1192.
Head-rest. V. H. Mankey. No. 1,038,403; Sept. 10; Gaz. vol. 182; p. 445.
Head-rest lock. W. F. Koken. No. 1,039,414; Sept. 24; Gaz. vol. 182; p. 845.
Head-shaping machine. C. Glover and C. Holt. No. 1,021,736; Mar. 26; Sp. p. 5773; Gaz. vol. 176; p. 1037.
Head-shaping machine. C. Glover and C. Holt. No. 1,027,383; May 21; Sp. p. 5060; Gaz. vol. 178; p. 852.
Headed-blank-feeding machine. E. W. Duston. No. 1,026,083; May 14; Sp. p. 2204; Gaz. vol. 178; p. 372.
Header. S. P. Whitworth. No. 1,015,368; Jan. 23; Sp. p. 5031; Gaz. vol. 174; p. 868.
Header. J. W. Hoover. No. 1,042,438; Oct. 29; Gaz. vol. 183; p. 1062.
Heading-machines, Cutting-off and carrying mechanism for. E. W. Duston. No. 1,015,382; Jan. 23; Sp. p. 5061; Gaz. vol. 174; p. 873.
Heading mechanism. E. W. Duston. No. 1,026,082; May 14; Sp. p. 2201; Gaz. vol. 178; p. 371.
Heading-up machine. E. F. Beugler. No. 1,027,803; May 28; Sp. p. 5922; Gaz. vol. 178; p. 1029.
Headlight. R. H. Welles. No. 1,015,750; Jan. 23; Sp. p. 5858; Gaz. vol. 174; p. 999.
Headlight. B. M. Sheets. No. 1,031,384; July 2; Gaz. vol. 180; p. 187.
Headlight. J. E. Koeberle. No. 1,033,070; July 16; Gaz. vol. 180; p. 848.
Headlight. F. Buchanan. No. 1,034,686; Aug. 6; Gaz. vol. 181; p. 94.
Headlight. W. Churchill. No. 1,034,873; Aug. 6; Gaz. vol. 181; p. 160.
Headlight. C. I. Williams. No. 1,035,504; Aug. 13; Gaz. vol. 181; p. 403.
Headlight. E. L. Wickett. No. 1,035,668; Aug. 13; Gaz. vol. 181; p. 459.
Headlight. C. I. Williams. No. 1,041,392; Oct. 15; Gaz. vol. 183; p. 647.
Headlight-adjuster for motor-vehicles. P. N. Squires. No. 1,032,309; July 9; Gaz. vol. 180; p. 545.
Headlight, Automatic. G. T. Tribe and J. M. Bemis. No. 1,028,153; June 4; Sp. p. 162; Gaz. vol. 179; p. 25.
Headlight, Automatic gravity pivot-. R. A. Wakefield. No. 1,013,706; Jan. 2; Sp. p. 1363; Gaz. vol. 174; p. 213.
Headlight, Automobile-. O. B. Woodfield, O. M. Morris, and J. W. Gosling. No. 1,014,429; Jan. 9; Sp. p. 2972; Gaz. vol. 174; p. 493.
Headlight, Automobile-. J. M. Hixon. No. 1,019,961; Mar. 12; Sp. p. 2040; Gaz. vol. 176; p. 353.
Headlight, Automobile-. A. Stepanek. No. 1,021,275; Mar. 26; Sp. p. 4823; Gaz. vol. 176; p. 880.
Headlight, Automobile-. E. J. Lutwyche. No. 1,022,589; Apr. 9; Sp. p. 1760; Gaz. vol. 177; p. 310.
Headlight, Automobile-. J. B. McKiel. No. 1,024,411; Apr. 23; Sp. p. 5675; Gaz. vol. 177; p. 989.
Headlight, Automobile-. C. Shermund and R. A. Mallett. No. 1,026,709; May 21; Sp. p. 3555; Gaz. vol. 178; p. 620.
Headlight, Automobile-. E. O. Clark. No. 1,047,171; Dec. 17; Gaz. vol. 185; p. 544.
Headlight blind or shutter. A. J. Zehendner. No. 1,037,402; Sept. 3; Gaz. vol. 182; p. 75.
Headlight-chimney. A. P. Storrs. No. 1,015,852; Jan. 30; Sp. p. 6080; Gaz. vol. 174; p. 1059.
Headlight-controller. F. E. Thompson. No. 1,021,279; Mar. 26; Sp. p. 4831; Gaz. vol. 176; p. 881.
Headlight-curtain. W. L. Russell. No. 1,026,703; May 21; Sp. p. 3545; Gaz. vol. 178; p. 618.
Headlight-directing means, Automatic. J. P. McElliott. No. 1,021,843; Apr. 2; Sp. p. 200; Gaz. vol. 177; p. 33.
Headlight, Dirigible. J. L. Lowe. No. 1,019,976; Mar. 12; Sp. p. 2069; Gaz. vol. 176; p. 357.
Headlight, Dirigible. A. Roesgen. No. 1,036,341; Aug. 20; Gaz. vol. 181; p. 729.
Headlight, Dirigible. J. P. Fox. No. 1,038,739; Sept. 17; Gaz. vol. 182; p. 597.
Headlight, Dirigible. L. C. and B. H. Thoeming and E. A. Anderson. No. 1,041,902; Oct. 22; Gaz. vol. 183; p. 856.
Headlight, Dirigible. F. Müller. No. 1,042,137; Oct. 22; Gaz. vol. 183; p. 933.
Headlight, Dirigible. J. A. Ellison. No. 1,045,008; Nov. 19; Gaz. vol. 184; p. 744.
Headlight for cars. C. E. Slack. No. 1,041,183; Oct. 15; Gaz. vol. 183; p. 577.
Headlight for locomotives and motor-cars. E. O. Clark. No. 1,047,170; Dec. 17; Gaz. vol. 185; p. 543.
Headlight for street-cars, automobiles, &c. I. S. Hershberger. No. 1,040,674; Oct. 8; Gaz. vol. 183; p. 374.
Headlight for vehicles, Controllable. W. B. Hargreaves. No. 1,037,000; Aug. 27; Gaz. vol. 181; p. 983.
Headlight-operating device. H. D. Peters. No. 1,037,047; Aug. 27; Gaz. vol. 181; p. 999.

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Headlight-operating mechanism. J. M. Fryer. No. 1,035,569; Aug. 13; Gaz. vol. 181; p. 426.
Headlight-turning device, Automobile. R. G. Gaskill. No. 1,014,627; Jan. 9; Sp. p. 3391; Gaz. vol. 174; p. 558.
Headlight, Vehicle-. J. O. McKean. No. 1,013,300; Jan. 2; Sp. p. 475; Gaz. vol. 174; p. 74.
Headlight, Vehicle-. W. M. McKinney. No. 1,032,924; July 16; Gaz. vol. 180; p. 797.
Headlight, Vehicle-. H. C. Kieninger. No. 1,043,843; Nov. 12; Gaz. vol. 184; p. 311.
Hearing, Device for aiding the. E. W. Schneider. No. 1,040,428; Oct. 8; Gaz. vol. 183; p. 284.
Hearing, Device for aiding the. E. W. Schneider. No. 1,040,429; Oct. 8; Gaz. vol. 183; p. 284.
Heat-accumulator. W. Schwarz. No. 1,018,083; Feb. 20; Sp. p. 4118; Gaz. vol. 175; p. 710.
Heat-accumulator for low-pressure fluid. F. Samuelson. No. 1,021,216; Mar. 26; Sp. p. 4687; Gaz. vol. 176; p. 859.
Heat and motive power, Generating. D. L. Dresser. No. 1,049,213; Dec. 31; Gaz. vol. 185; p. 1315.
Heat and power plants, Means for economizing. J. M. W. Kitchen. No. 1,043,847; Nov. 12; Gaz. vol. 184; p. 312.
Heat-conserving apparatus. R. T. Markee. No. 1,016,346; Feb. 6; Sp. p. 251; Gaz. vol. 175; p. 39.
Heat-conserving means. A. T. Kasley. No. 1,025,274; May 7; Sp. p. 357; Gaz. vol. 178; p. 58.
Heat-distributing system. W. E. Smith. No. 1,020,933; Mar. 19; Sp. p. 4084; Gaz. vol. 176; p. 714.
Heat-economizing means. J. M. W. Kitchen. No. 1,028,030; May 28; Sp. p. 6435; Gaz. vol. 178; p. 1104.
Heat energy, Utilizing. W. H. Smyth. No. 1,037,070; Aug. 27; Gaz. vol. 181; p. 1007.
Heat energy, Utilizing. W. H. Smyth. No. 1,037,071; Aug. 27; Gaz. vol. 181; p. 1007.
Heat-exchange device. A. Lomschakow. No. 1,048,186; Dec. 24; Gaz. vol. 185; p. 925.
Heat-exchanging device. E. Pielock and C. Züblin. No. 1,015,831; Jan. 30; Sp. p. 6028; Gaz. vol. 174; p. 1053.
Heat generation, Production of reactionary substances for. A. Lang. No. 1,035,202; Aug. 13; Gaz. vol. 181; p. 298.
Heat-indicating device. W. B. Hughes. No. 1,034,798; Aug. 6; Gaz. vol. 181; p. 133.
Heat-insulated can. L. R. Steel. No. 1,048,368; Dec. 24; Gaz. vol. 185; p. 987.
Heat-insulated receptacles, Making. R. Hartwig. No. 1,029,364; June 11; Sp. p. 2816; Gaz. vol. 179; p. 474.
Heat-insulating material and manufacturing the same. C. H. Belknap. No. 1,045,933; Dec. 3; Gaz. vol. 185; p. 47.
Heat-insulating vessel. R. Machlett. No. 1,021,058; Mar. 26; Sp. p. 4358; Gaz. vol. 176; p. 809.
Heat of distillation, Utilizing waste. F. Shuman. No. 1,014,418; Jan. 9; Sp. p. 2954; Gaz. vol. 174; p. 490.
Heat-producing compound. C. G. Smith. No. 1,019,377; Mar. 5; Sp. p. 876; Gaz. vol. 176; p. 129.
Heat-regulator. E. H. Murphy. No. 1,013,424; Jan. 2; Sp. p. 740; Gaz. vol. 174; p. 117.
Heat-resisting vulcanized fabric. W. H. Strickler. No. 1,048,912; Dec. 31; Gaz. vol. 185; p. 1212.
Heat, Saving. F. H. Daniels. No. 1,028,685; June 4; Sp. p. 1330; Gaz. vol. 179; p. 206.
Heat-transferring apparatus. F. E. Rein and E. W. Broomall. No. 1,031,732; July 9; Gaz. vol. 180; p. 349.
Heat-transferring apparatus. E. Lucas-Girardville and G. Mercadier. No. 1,034,020; July 30; Gaz. vol. 180; p. 1234.
Heater: *See* Air-heater; Air-blast heater; Air-tube heater; Automobile-heater; Barrel-heater; Base-heater; Boiler or fluid heater; Car-heater; Carbureter-heater; Cast-iron blast-heater; Curling-iron heater; Drum-heater; Electric heater; Electrical heater; Feed-water heater; Fireplace-heater; Fluid-heater; Gas-heater; Glue-heater; Hot-air heater; Hot-water heater; Hot-water or steam heater; Incubator-heater; Liquid-heater; Lunch-heater; Mesh heater; Oil-heater; Orchard-heater; Radiator-heater; Sad-iron heater; Sap-heater; Sectional heater; Solar heater; Soldering-iron heater; Steam and hot-water heater; Steam or hot-water heater; Tank-heater; Test-tube heater; Tool-heater; Tree-heater; Tube-heater; Vat-heater; Watchmaker's electric heater; Water-heater; Wheat-heater.
Heater. J. Jungers. No. 1,013,176; Jan. 2; Sp. p. 173; Gaz. vol. 174; p. 30.
Heater. C. S. Brown and J. C. Hoxie. No. 1,013,271; Jan. 2; Sp. p. 397; Gaz. vol. 174; p. 64.
Heater. W. E. Sharp. No. 1,013,822; Jan. 2; Sp. p. 1595; Gaz. vol. 174; p. 254.
Heater. J. S. Walker. No. 1,018,793; Feb. 27; Sp. p. 5694; Gaz. vol. 175; p. 984.
Heater. W. R. Jeavons. No. 1,029,757; June 18; Sp. p. 3667; Gaz. vol. 179; p. 647.
Heater. W. J. Dwyer. No. 1,032,191; July 9; Gaz. vol. 180; p. 504.
Heater. G. E. Riblet. No. 1,037,987; Sept. 10; Gaz. vol. 182; p. 306.
Heater. W. H. Jones. No. 1,040,688; Oct. 8; Gaz. vol. 183; p. 379.
Heater. W. R. Jeavons. No. 1,045,409; Nov. 26; Gaz. vol. 184; p. 912.
Heater. M. Kelly. No. 1,045,561; Nov. 26; Gaz. vol. 184; p. 968.
Heater. S. S. Thomas. No. 1,045,910; Dec. 3; Gaz. vol. 185; p. 39.
Heater. G. T. Midby. No. 1,046,317; Dec. 3; Gaz. vol. 185; p. 181.
Heater. W. R. Cooper. No. 1,047,389; Dec. 17; Gaz. vol. 185; p. 623.
Heater and radiator, Combined. M. J. Wheeler. No. 1,023,450; Apr. 16; Sp. p. 3622; Gaz. vol. 177; p. 642.
Heater-base, Sectional. W. N. Van Vleet. No. 1,040,469; Oct. 8; Gaz. vol. 183; p. 298.
Heater for gravel, &c. A. B. Cowdery. No. 1,025,687; May 7; Sp. p. 1288; Gaz. vol. 178; p. 200.
Heater safety device. R. C. Claus. No. 1,048,659; Dec. 31; Gaz. vol. 185; p. 1125.
Heaters, Automatic water-regulator for. G. B. Norton. No. 1,046,215; Dec. 3; Gaz. vol. 185; p. 144.
Heaters, Deflector for. J. S. Makin and H. A. Schellman. No. 1,022,854; Apr. 9; Sp. p. 2358; Gaz. vol. 177; p. 403.
Heaters, Smoke-pipe connection and check-damper for. L. J. Mueller. No. 1,048,197; Dec. 24; Gaz. vol. 185; p. 929.
Heating. W. I. Thomson and H. G. Thompson. No. 1,026,722; May 21; Sp. p. 3588; Gaz. vol. 178; p. 625.
Heating and cooking apparatus, Means for regulating the temperature of electrical. J. C. P. Kirkwood. No. 1,025,576; May 7; Sp. p. 1063; Gaz. vol. 178; p. 164.
Heating and distributing materials, Machine for. J. F. Decker. No. 1,047,619; Dec. 17; Gaz. vol. 185; p. 705.
Heating and mixing apparatus. H. D. Miles. No. 1,039,779; Oct. 1; Gaz. vol. 183; p. 38.
Heating and ventilating apparatus. C. W. Edgar. No. 1,039,664; Sept. 24; Gaz. vol. 182; p. 933.
Heating and ventilating apparatus. F. P. Mies. No. 1,041,322; Oct. 15; Gaz. vol. 183; p. 624.
Heating and ventilating system. C. H. Smith. No. 1,024,035; Apr. 23; Sp. p. 4857; Gaz. vol. 177; p. 861.
Heating apparatus. G. Rose. No. 1,016,778; Feb. 6; Sp. p. 1225; Gaz. vol. 175; p. 189.
Heating apparatus. E. J. Smith. No. 1,016,969; Feb. 13; Sp. p. 1643; Gaz. vol. 175; p. 289.
Heating apparatus. W. Andrew. No. 1,018,472; Feb. 27; Sp. p. 4946; Gaz. vol. 175; p. 874.
Heating apparatus. W. N. Dutton. No. 1,022,184; Apr. 2; Sp. p. 915; Gaz. vol. 177; p. 146.
Heating apparatus. B. C. Allen. No. 1,027,970; May 28; Sp. p. 6328; Gaz. vol. 178; p. 1086.
Heating apparatus. G. Machlet, Jr. No. 1,033,816; July 30; Gaz. vol. 180; p. 1160.
Heating apparatus. G. B. Collier. No. 1,043,508; Nov. 5; Gaz. vol. 184; p. 167.
Heating apparatus. N. B. Wales. No. 1,043,553; Nov. 5; Gaz. vol. 184; p. 182.
Heating apparatus, Electric. L. F. Parkhurst. No. 1,023,755; Apr. 16; Sp. p. 4194; Gaz. vol. 177; p. 737.
Heating apparatus, Electric. W. S. Hadaway, Jr. No. 1,046,777; Dec. 10; Gaz. vol. 185; p. 382.
Heating apparatus, Electric steam-. J. G. Wallmann. No. 1,023,602; Apr. 16; Sp. p. 3934; Gaz. vol. 177; p. 691.
Heating apparatus for corn-cribs, Knockdown. L. C. Emmons. No. 1,023,787; Apr. 16; Sp. p. 4254; Gaz. vol. 177; p. 747.
Heating apparatus, Manufacture of. H. Beck. No. 1,016,910; Feb. 6; Sp. p. 1497; Gaz. vol. 175; p. 231.
Heating apparatus, Steam-. J. A. Donnelly. No. 1,047,622; Dec. 17; Gaz. vol. 185; p. 706.
Heating appliance. R. M. Austin. No. 1,013,267; Jan. 2; Sp. p. 386; Gaz. vol. 174; p. 62.
Heating appliance. J. Buettner. No. 1,040,140; Oct. 1; Gaz. vol. 183; p. 158.
Heating-boiler, Hot-water. T. D. MacGregor. No. 1,021,416; Mar. 26; Sp. p. 5143; Gaz. vol. 176; p. 931.
Heating boiler, House-. A. C. Edgar. No. 1,044,363; Nov. 12; Gaz. vol. 184; p. 490.
Heating briquets, &c., Means for. P. Hein. No. 1,039,533; Sept. 24; Gaz. vol. 182; p. 887.
Heating device. A. T. Ronstrom. No. 1,018,445; Feb. 27; Sp. p. 4898; Gaz. vol. 175; p. 866.
Heating device. C. M. Wheelock. No. 1,020,119; Mar. 12; Sp. p. 2374; Gaz. vol. 176; p. 406.
Heating device. J. W. MacDonald. No. 1,024,138; Apr. 23; Sp. p. 5101; Gaz. vol. 177; p. 897.
Heating device. F. H. Wheelock. No. 1,026,013; May 14; Sp. p. 2007; Gaz. vol. 178; p. 346.
Heating device. W. Stanley. No. 1,044,284; Nov. 12; Gaz. vol. 184; p. 463.
Heating device and constructing the same, Electric. W. S. Hadaway, Jr. No. 1,042,432; Oct. 29; Gaz. vol. 183; p. 1060.
Heating device, Electric. C. P. Madsen. No. 1,034,265; July 30; Gaz. vol. 180; p. 1318.
Heating device, Electric. W. Stanley. No. 1,046,887; Dec. 10; Gaz. vol. 185; p. 418.
Heating device, Electric. J. O. Dimmick. No. 1,047,004; Dec. 10; Gaz. vol. 185; p. 455.

Alphabetical list of inventions—Continued.

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Heating device for running water, Electric. H. Löfquist. No. 1,030,901; July 2; Gaz. vol. 180; p. 18.
Heating electrical units, Apparatus for. H. H. Russell. No. 1,029,230; June 11; Sp. p. 2512; Gaz. vol. 179; p. 427.
Heating element, Electric. F. E. Hewitt. No. 1,014,875; Jan. 16; Sp. p. 3990; Gaz. vol. 174; p. 675.
Heating element, Electric. J. C. C. Macdonogh. No. 1,024,998; Apr. 30; Sp. p. 6996; Gaz. vol. 177; p. 1229.
Heating element, Universal electric induction. J. L. Anderson. No. 1,023,791; Apr. 23; Sp. p. 4270; Gaz. vol. 177; p. 777.
Heating-furnace. S. S. Wales. No. 1,018,999; Feb. 27; Sp. p. 6141; Gaz. vol. 175; p. 1055.
Heating-furnace. F. J. Nice. No. 1,022,204; Apr. 2; Sp. p. 958; Gaz. vol. 177; p. 153.
Heating-furnace, Continuous. G. C. Shackleford, P. J. Gordon, and A. K. McMillen. No. 1,027,915; May 28; Sp. p. 6222; Gaz. vol. 178; p. 1068.
Heating-furnace, Continuous. A. W. Griffith. No. 1,029,605; June 18; Sp. p. 3330; Gaz. vol. 179; p. 593.
Heating-furnace, Continuous. W. J. Bradley. No. 1,040,868; Oct. 8; Gaz. vol. 183; p. 435.
Heating installation, Hot-water. A. B. Reck. No. 1,031,290; July 2; Gaz. vol. 180; p. 155.
Heating or cooling apparatus. L. A. Carter, J. C. Jones, and J. C. Spotts. No. 1,024,554; Apr. 30; Sp. p. 6068; Gaz. vol. 177; p. 1074.
Heating or cooling plate. S. A. Schewczik. No. 1,015,404; Jan. 23; Sp. p. 5104; Gaz. vol. 174; p. 880.
Heating or superheating purposes, Structure for. H. Luckenbach. No. 1,025,949; May 7; Sp. p. 1878; Gaz. vol. 178; p. 288.
Heating-pad, Electric. W. S. Clark. No. 1,015,991; Jan. 30; Sp. p. 6373; Gaz. vol. 174; p. 1109.
Heating-pad, Electric. G. Jahr. No. 1,036,632; Aug. 27; Gaz. vol. 181; p. 861.
Heating-pad, Electrical. C. A. Shaler. No. 1,044,270; Nov. 12; Gaz. vol. 184; p. 459.
Heating process, Metallurgical. B. E. Eldred. No. 1,035,331; Aug. 13; Gaz. vol. 181; p. 344.
Heating receptacle, Liquid-. W. A. Roberson. No. 1,042,144; Oct. 22; Gaz. vol. 183; p. 935.
Heating sheet-bars. T. V. Allis. No. 1,046,933; Dec. 10; Gaz. vol. 185; p. 434
Heating system. W. H. Swett. No. 1,024,161; Apr. 23; Sp. p. 5150; Gaz. vol. 177; p. 904.
Heating system. J. M. W. Kitchen. No. 1,024,788; Apr. 30; Sp. p. 6574; Gaz. vol. 177; p. 1157.
Heating system. E. Thomson. No. 1,031,489; July 2; Gaz. vol. 180; p. 223.
Heating system. E. E. Gold. No. 1,036,827; Aug. 27; Gaz. vol. 181; p. 925.
Heating system. W. H. Jones. No. 1,040,548; Oct. 8; Gaz. vol. 183; p. 327.
Heating system. E. E. Gold. No. 1,043,922; Nov. 12; Gaz. vol. 184; p. 339.
Heating system. A. G. Paul. No. 1,045,602; Nov. 26; Gaz. vol. 184; p. 981.
Heating system. A. G. Paul. No. 1,045,603; Nov. 26; Gaz. vol. 184; p. 982.
Heating system. A. G. Paul. No. 1,045,604; Nov. 26; Gaz. vol. 184; p. 982.
Heating system. A. G. Paul. No. 1,045,605; Nov. 26; Gaz. vol. 184; p. 983.
Heating system. A. G. Paul and A. A. Cryer. No. 1,045,606; Nov. 26; Gaz. vol. 184; p. 984.
Heating system. E. E. Gold. No. 1,046,458; Dec. 10; Gaz. vol. 185; p. 267.
Heating system. R. M. Dixon. No. 1,047,922; Dec. 24; Gaz. vol. 185; p. 839.
Heating system, Electric steam-. A. F. Batchelder. No. 1,019,413; Mar. 5; Sp. p. 958; Gaz. vol. 176; p. 130.
Heating system for chicken-culture apparatus. V. C. Koons. No. 1,018,714; Feb. 27; Sp. p. 5526; Gaz. vol. 175; p. 957.
Heating system, Hot-water. H. Ahrens. No. 1,026,236; May 14; Sp. p. 2535; Gaz. vol. 178; p. 424.
Heating system, Hot-water. G. H. Gibson. No. 1,045,831; Dec. 3; Gaz. vol. 185; p. 13.
Heating system, Steam-. J. L. Sparks and E. R. Eddins. No. 1,013,328; Jan. 2; Sp. p. 531; Gaz. vol. 174; p. 84.
Heating system, Steam-. E. E. Gold. No. 1,014,296; Jan. 9; Sp. p. 2675; Gaz. vol. 174; p. 446.
Heating system, Steam-. C. A. Ball. No. 1,024,547; Apr. 30; Sp. p. 6036; Gaz. vol. 177; p. 1072.
Heating system, Water-. J. W. Gamble. No. 1,020,755; Mar. 19; Sp. p. 3728; Gaz. vol. 176; p. 654.
Heating systems, Accelerator for hot-water. A. G. Stapel. No. 1,029,032; June 11; Sp. p. 2093; Gaz. vol. 179; p. 361.
Heating systems, Automatic controlling apparatus for steam-. F. F. Coggin and E. H. Gold. No. 1,021,505; Mar. 26; Sp. p. 5336; Gaz. vol. 176; p. 961.
Heating systems, Feed-regulator for. H. Lemp. No. 1,022,032; Apr. 2; Sp. p. 597; Gaz. vol. 177; p. 94.
Heating systems, Operating steam-. C. A. Ball. No. 1,024,546; Apr. 30; Sp. p. 6031; Gaz. vol. 177; p. 1071.
Heating systems, Pressure-governor for. G. Smith. No. 1,016,372; Feb. 6; Sp. p. 298; Gaz. vol. 175; p. 47.
Heating unit, Electrical. C. A. Shaler. No. 1,044,269; Nov. 12; Gaz. vol. 184; p. 459.
Heddle-binder. C. R. Sweet and W. V. Ballard. No. 1,042,052; Oct. 22; Gaz. vol. 183; p. 905.
Heddles or the like, Pattern-controlled means for distributing. B. A. Peterson. No. 1,019,915; Mar. 12; Sp. p. 1951; Gaz. vol. 176; p. 338.
Hedge-trimmer. J. S. Joline and E. H. Wheeler. No. 1,014,480; Jan. 9; Sp. p. 3064; Gaz. vol. 174; p. 509.
Hedge-trimming machine. E. T. Bullock. No. 1,039,021; Sept. 17; Gaz. vol. 182; p. 692.
Heel. L. H. Shaw. No. 1,015,846; Jan. 30; Sp. p. 6062; Gaz. vol. 174; p. 1057.
Heel and sole nail. S. L. Rosen. No. 1,042,279; Oct. 22; Gaz. vol. 183; p. 979.
Heel, Apparel-shoe. M. Lage. No. 1,027,659; May 28; Sp. p. 5622; Gaz. vol. 178; p. 981.
Heel-attaching machine. T. Lund. No. 1,017,778; Feb. 20; Sp. p. 3421; Gaz. vol. 175; p. 602.
Heel-attaching machine. E. Woodward. No. 1,019,398; Mar. 5; Sp. p. 920; Gaz. vol. 176; p. 135.
Heel-attaching machine. M. F. Follansbee. No. 1,030,577; June 25; Sp. p. 5590; Gaz. vol. 179; p. 971.
Heel-attaching machine. J. H. Pope. No. 1,030,680; June 25; Sp. p. 5905; Gaz. vol. 179; p. 1009.
Heel attachment, Shoe-. J. A. Enright. No. 1,021,510; Mar. 26; Sp. p. 5353; Gaz. vol. 176; p. 963.
Heel, Boot and shoe. E. Kempshall. No. 1,027,255; May 21; Sp. p. 4795; Gaz. vol. 178; p. 808.
Heel-breasting machine. B. B. Waterman. (Reissue.) No. 13,413; Apr. 30; Sp. p. 7243; Gaz. vol. 177; p. 1270.
Heel building and pressing machine. C. O. Ryberg. No. 1,015,589; Jan. 23; Sp. p. 5519; Gaz. vol. 174; p. 944.
Heel-building machine. E. A. Tripp. No. 1,025,551; May 7; Sp. p. 999; Gaz. vol. 178; p. 154.
Heel-building machine. W. R. Barclay and A. Bates. No. 1,028,528; June 4; Sp. p. 1016; Gaz. vol. 179; p. 154.
Heel-burnishing machines, Wax-applying device for. A. Beckman. No. 1,031,231; July 2; Gaz. vol. 180; p. 135.
Heel-clamp. H. G. Schmitt. No. 1,016,961; Feb. 13; Sp. p. 1629; Gaz. vol. 175; p. 286.
Heel compressing and loading apparatus. C. C. Small. No. 1,027,361; May 21; Sp. p. 5010; Gaz. vol. 178; p. 845.
Heel-compressor. J. E. Glidden. No. 1,017,406; Feb. 13; Sp. p. 2599; Gaz. vol. 175; p. 441.
Heel-cushion. G. W. Levan. No. 1,029,019; June 11; Sp. p. 2073; Gaz. vol. 179; p. 356.
Heel, Cushion-. C. H. C. Martin. No. 1,035,371; Aug. 13; Gaz. vol. 181; p. 359.
Heel, Detachable. J. G. Barnes. No. 1,019,585; Mar. 5; Sp. p. 1296; Gaz. vol. 176; p. 194.
Heel, Detachable. G. Evans. No. 1,033,686; July 23; Gaz. vol. 180; p. 1090.
Heel, Detachable rubber. A. McDonald. No. 1,039,306; Sept. 24; Gaz. vol. 182; p. 809.
Heel, Detachable shoe-. J. Lavoie. No. 1,046,815; Dec. 10; Gaz. vol. 185; p. 395.
Heel-finishing machine. J. Buckle. No. 1,048,647; Dec. 31; Gaz. vol. 185; p. 1121.
Heel for footwear, Adjustable. H. E. Fry. No. 1,020,138; Mar. 12; Sp. p. 2407; Gaz. vol. 176; p. 411.
Heel for shoes, Detachable. F. L. Rouse. No. 1,013,615; Jan. 2; Sp. p. 1140; Gaz. vol. 174; p. 181.
Heel for shoes, Resilient. A. Jenczyk. No. 1,039,409; Sept. 24; Gaz. vol. 182; p. 843.
Heel-lifts, heels, &c., Machine for pressing. T. Bostock. No. 1,018,549; Feb. 27; Sp. p. 5191; Gaz. vol. 175; p. 902.
Heel-lining, Auxiliary. T. S. Rogers. No. 1,023,877; Apr. 23; Sp. p. 4503; Gaz. vol. 177; p. 806.
Heel-making machine. T. H. Mayo. No. 1,025,534; May 7; Sp. p. 958; Gaz. vol. 178; p. 149.
Heel-nailing machine. G. M. Pettengill. No. 1,042,374; Oct. 22; Gaz. vol. 183; p. 1011.
Heel, Pieced. A. C. Redden. No. 1,024,699; Apr. 30; Sp. p. 6383; Gaz. vol. 177; p. 1125.
Heel plate, Detachable shoe-. A. Youhás. No. 1,042,520; Oct. 29; Gaz. vol. 183; p. 1092.
Heel-plates, Making. J. Richer. No. 1,019,919; Mar. 12; Sp. p. 1960; Gaz. vol. 176; p. 340.
Heel-protector. S. M. Mathews. No. 1,036,666; Aug. 27; Gaz. vol. 181; p. 873.
Heel, Removable. F. Powyszenski. No. 1,029,220; June 11; Sp. p. 2493; Gaz. vol. 179; p. 424.
Heel, Removable. L. Kalina. No. 1,042,924; Oct. 29; Gaz. vol. 183; p. 1232.
Heel, Repair-. G. D. Coates. No. 1,020,800; Mar. 19; Sp. p. 3821; Gaz. vol. 176; p. 669.
Heel, Resilient. L. N. Jacobi. No. 1,019,898; Mar. 12; Sp. p. 1914; Gaz. vol. 176; p. 333.
Heel, Resilient. H. H. Mathis. No. 1,021,751; Mar. 26; Sp. p. 5809; Gaz. vol. 176; p. 1042.
Heel, Rubber. L. J. Soderlund. No. 1,048,367; Dec. 24; Gaz. vol. 185; p. 986.

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Heel-scouring machines, Guard for. G. B. Gardner. No. 1,029,538; June 11; Sp. p. 3175; Gaz. vol. 179; p. 533.
Heel-seat-jointing machine. L. G. Freeman. No. 1,019,145; Mar. 5; Sp. p. 309; Gaz. vol. 176; p. 48.
Heel-seat maker and counter-pounder, Rotary. I. E. Fletcher. (Reissue.) No. 13,385; Mar. 19; Sp. p. 4140; Gaz. vol. 176; p. 721.
Heel-seat-rounding machine. J. V. Allen. No. 1,027,638; May 28; Sp. p. 5570; Gaz. vol. 178; p. 974.
Heel-seat-rounding machine. J. V. Allen. No. 1,034,560; Aug. 6; Gaz. vol. 181; p. 53.
Heel-shaver. I. J. Bazley. No. 1,031,036; July 2; Gaz. vol. 180; p. 66.
Heel, Shoe-. F. L. Smith. No. 1,013,623; Jan. 2; Sp. p. 1156; Gaz. vol. 174; p. 184.
Heel, Shoe-. C. W. Lakin. No. 1,034,627; Aug. 6; Gaz. vol. 181; p. 74.
Heel, Shoe-. J. Cselenkó. No. 1,047,756; Dec. 17; Gaz. vol. 185; p. 754.
Heel, Shoe-. W. E. Stedman. No. 1,049,164; Dec. 31; Gaz. vol. 185; p. 1298.
Heel, Shoe-. B. Rosenberg. No. 1,049,271; Dec. 31; Gaz. vol. 185; p. 1335.
Heels, Building. E. E. Winkley. No. 1,020,170; Mar. 12; Sp. p. 2482; Gaz. vol. 176; p. 423.
Heels of boots and shoes, Apparatus for hammering the. J. W. Tierney. No. 1,013,971; Jan. 9; Sp. p. 1973; Gaz. vol. 174; p. 334.
Heels of boots and shoes, Machine for concaving. J. N. Busell. No. 1,030,567; June 25; Sp. p. 5546; Gaz. vol. 179; p. 968.
Heels of boots and shoes, Tool for finishing the. Z. Beaudry. No. 1,024,612; Apr. 30; Sp. p. 6199; Gaz. vol. 177; p. 1094.
Heels on shoes, Machine for embossing. A. H. Prenzel. No. 1,030,608; June 25; Sp. p. 5705; Gaz. vol. 179; p. 984.
Heels, Resilient top piece for boot and shoe. H. Thorne. No. 1,044,294; Nov. 12; Gaz. vol. 184; p. 467.
Height and caliper gage, Combination. C. S. Reamy. No. 1,033,346; July 23; Gaz. vol. 180; p. 980.
Helicopter, Turbine-driven. G. Mees. No. 1,047,266; Dec. 17; Gaz. vol. 185; p. 579.
Helix-coiling machine. F. B. Shuster. No. 1,023,099; Apr. 9; Sp. p. 2859; Gaz. vol. 177; p. 487.
Hemaglobin preparations, Making clear and durable. P. Lewy. No. 1,048,185; Dec. 24; Gaz. vol. 185; p. 925.
Hemp-brake. F. O'Neill, Jr. No. 1,017,582; Feb. 13; Sp. p. 2953; Gaz. vol. 175; p. 499.
Hemp-brake. M. Catrow. No. 1,037,127; Aug. 27; Gaz. vol. 181; p. 1026.
Hemp-stripping machine. E. Dringman. No. 1,046,281; Dec. 3; Gaz. vol. 185; p. 168.
Hickey. W. R. McLain. No. 1,017,985; Feb. 20; Sp. p. 3906; Gaz. vol. 175; p. 676.
Hickey. F. J. Miller. No. 1,019,821; Mar. 12; Sp. p. 1743; Gaz. vol. 176; p. 305.
Hide-treating machine. C. J. Glasel. No. 1,034,783; Aug. 6; Gaz. vol. 181; p. 128.
Hides and skins, Machine for stretching tawed and chrome-tanned. E. Siméon. No. 1,045,203; Nov. 26; Gaz. vol. 184; p. 840.
Hides and skins, Unhairing. L. Stern. No. 1,019,854; Mar. 12; Sp. p. 1806; Gaz. vol. 176; p. 317.
Hides, Curing. F. P. James. No. 1,025,401; May 7; Sp. p. 654; Gaz. vol. 178; p. 102.
High and low water alarm, Steam-boiler. C. E. Robison. No. 1,045,892; Dec. 3; Gaz. vol. 185; p. 33.
High chair. F. W. Harris. No. 1,043,927; Nov. 12; Gaz. vol. 184; p. 340.
High chair, Child's portable. F. Greene. No. 1,049,080; Dec. 31; Gaz. vol. 185; p. 1271.
High-frequency apparatus. W. Dubilier. No. 1,023,135; Apr. 16; Sp. p. 2985; Gaz. vol. 177; p. 537.
High-speed drill. L. J. Campbell. No. 1,044,625; Nov. 19; Gaz. vol. 184; p. 611.
High-speed drill. L. J. Campbell. No. 1,048,035; Dec. 24; Gaz. vol. 185; p. 874.
High-tension discharges, Means for producing. J. E. Seeley. No. 1,015,088; Jan. 16; Sp. p. 4435; Gaz. vol. 174; p. 746.
Hinge. P. M. Bush. No. 1,014,372; Jan. 9; Sp. p. 2863; Gaz. vol. 174; p. 474.
Hinge. S. Volz. No. 1,014,790; Jan. 16; Sp. p. 3788; Gaz. vol. 174; p. 644.
Hinge. J. Richardson. No. 1,015,209; Jan. 16; Sp. p. 4664; Gaz. vol. 174; p. 787.
Hinge. B. V. B. Dixon. No. 1,016,000; Jan. 30; Sp. p. 6394; Gaz. vol. 174; p. 1112.
Hinge. B. F. Orear. No. 1,016,171; Jan. 30; Sp. p. 6736; Gaz. vol. 174; p. 1171.
Hinge. F. N. Sharp. No. 1,018,449; Feb. 27; Sp. p. 4903; Gaz. vol. 175; p. 867.
Hinge. J. Soss. No. 1,019,096; Mar. 5; Sp. p. 195; Gaz. vol. 176; p. 31.
Hinge. P. A. Peterson. No. 1,019,184; Mar. 5; Sp. p. 394; Gaz. vol. 176; p. 62.
Hinge. J. G. Braun. No. 1,021,912; Apr. 2; Sp. p. 337; Gaz. vol. 177; p. 56.
Hinge. J. Boness. No. 1,022,174; Apr. 2; Sp. p. 894; Gaz. vol. 177; p. 142.
Hinge. J. C. Hylton. No. 1,022,588; Apr. 9; Sp. p. 1759; Gaz. vol. 177; p. 310.
Hinge. J. A. Dupuis. No. 1,024,837; Apr. 30; Sp. p. 6672; Gaz. vol. 177; p. 1174.
Hinge. H. W. Bertram. No. 1,026,844; May 21; Sp. p. 3859; Gaz. vol. 178; p. 666.
Hinge. N. Shields. No. 1,027,444; May 28; Sp. p. 5193; Gaz. vol. 178; p. 910.
Hinge. C. Hartman. No. 1,028,021; May 28; Sp. p. 6423; Gaz. vol. 178; p. 1102.
Hinge. J. Gronek. No. 1,028,874; June 11; Sp. p. 1745; Gaz. vol. 179; p. 305.
Hinge. R. W. Onyons. No. 1,028,953; June 11; Sp. p. 1921; Gaz. vol. 179; p. 332.
Hinge. R. C. Pleins. No. 1,029,629; June 18; Sp. p. 3380; Gaz. vol. 179; p. 602.
Hinge. E. J. Berault. No. 1,030,801; June 25; Sp. p. 6236; Gaz. vol. 179; p. 1053.
Hinge. J. Soss. No. 1,030,936; July 2; Gaz. vol. 180; p. 29.
Hinge. F. F. Unckrich. No. 1,031,745; July 9; Gaz. vol. 180; p. 354.
Hinge. M. Harris. No. 1,033,582; July 23; Gaz. vol. 180; p. 1057.
Hinge. J. Soss. No. 1,034,158; July 30; Gaz. vol. 180; p. 1281.
Hinge. J. A. Stuart. No. 1,034,660; Aug. 6; Gaz. vol. 181; p. 85.
Hinge. A. Prentice. No. 1,035,125; Aug. 6; Gaz. vol. 181; p. 240.
Hinge. A. L. Sessions. No. 1,036,734; Aug. 27; Gaz. vol. 181; p. 894.
Hinge. G. B. Thurber. No. 1,037,807; Sept. 3; Gaz. vol. 182; p. 210.
Hinge. W. L. Murphy. No. 1,041,147; Oct. 15; Gaz. vol. 183; p. 564.
Hinge. J. Loughren. No. 1,042,936; Oct. 29; Gaz. vol. 183; p. 1235.
Hinge. A. C. Johnson. No. 1,045,851; Dec. 3; Gaz. vol. 185; p. 20.
Hinge. S. B. Nilsen. No. 1,045,875; Dec. 3; Gaz. vol. 185; p. 27.
Hinge. C. C. Norton and J. Pratt. No. 1,046,486; Dec. 10; Gaz. vol. 185; p. 277.
Hinge. G. N. Barcus. No. 1,047,148; Dec. 17; Gaz. vol. 185; p. 536.
Hinge. V. Cerny. No. 1,048,038; Dec. 24; Gaz. vol. 185; p. 876.
Hinge, Adjustable. W. Webster. No. 1,043,489; Nov. 5; Gaz. vol. 184; p. 160.
Hinge, Adjustable. N. W. Kellaway. No. 1,048,545; Dec. 31; Gaz. vol. 185; p. 1086.
Hinge and fastener, Shutter. L. F. Brown and J. F. Chapbell. No. 1,034,971; Aug. 6; Gaz. vol. 181; p. 191.
Hinge and hanger, Combined. E. L. Watrous. No. 1,033,851; July 30; Gaz. vol. 180; p. 1172.
Hinge-articulator. H. Schweitzer. No. 1,027,443; May 28; Sp. p. 5192; Gaz. vol. 178; p. 910.
Hinge, Box-. R. B. Fuller. No. 1,025,261; May 7; Sp. p. 339; Gaz. vol. 178; p. 55.
Hinge, Butt-. R. R. Leeds. No. 1,047,253; Dec. 17; Gaz. vol. 185; p. 574.
Hinge, Carriage-. J. Laurich. No. 1,015,040; Jan. 16; Sp. p. 4348; Gaz. vol. 174; p. 730.
Hinge, Closet-seat. R. McCord. No. 1,018,722; Feb. 27; Sp. p. 5541; Gaz. vol. 175; p. 959.
Hinge, Concealed. G. A. De Vlieg. No. 1,046,999; Dec. 10; Gaz. vol. 185; p. 454.
Hinge, Detachable. F. J. Peterson. No. 1,021,885; Apr. 2; Sp. p. 287; Gaz. vol. 177; p. 47.
Hinge, Door-. W. H. Northall. No. 1,013,948; Jan. 9; Sp. p. 1920; Gaz. vol. 174; p. 327.
Hinge, Door-. J. R. Fletcher. No. 1,027,716; May 28; Sp. p. 5739; Gaz. vol. 178; p. 1000.
Hinge, Door-. M. J. Kolling. No. 1,046,806; Dec. 10; Gaz. vol. 185; p. 392.
Hinge, Floor-. H. G. Voight. No. 1,039,618; Sept. 24; Gaz. vol. 182; p. 917.
Hinge for coach and automobile bodies. F. Crawford and W. Whiteley. No. 1,013,535; Jan. 2; Sp. p. 975; Gaz. vol. 174; p. 156.
Hinge for davenports or sofa-beds. J. Sontheimer. No. 1,044,280; Nov. 12; Gaz. vol. 184; p. 462.
Hinge for screens. H. Dittmer. No. 1,031,327; July 2; Gaz. vol. 180; p. 168.
Hinge for windows, Detachable. M. A. George. No. 1,021,245; Mar. 26; Sp. p. 4760; Gaz. vol. 176; p. 869.
Hinge, Friction-. C. J. Schnaus. No. 1,015,347; Jan. 23; Sp. p. 4991; Gaz. vol. 174; p. 861.
Hinge, Friction-. J. Bahnsen. No. 1,026,781; May 21; Sp. p. 3725; Gaz. vol. 178; p. 645.
Hinge-gage. R. J. Sizer. No. 1,034,843; Aug. 6; Gaz. vol. 181; p. 149.
Hinge, Gate-. B. C. Russell. No. 1,032,776; July 16; Gaz. vol. 180; p. 749.
Hinge, Gate-. C. A. Anderson. No. 1,035,134; Aug. 13; Gaz. vol. 181; p. 273.
Hinge, Gate-. J. Harrison. No. 1,035,584; Aug. 13; Gaz. vol. 181; p. 431.
Hinge, Gravitating. J. J. Mercer. No. 1,046,209; Dec. 3; Gaz. vol. 185; p. 141.

Alphabetical list of inventions—Continued.

Hinge, Gravity-. S. Frey. No. 1,034,008; July 30; Gaz. vol. 180; p. 1229.
Hinge, Gravity-. G. E. Toms and T. P. Blair. No. 1,039,216: Sept. 24; Gaz. vol. 182; p. 775.
Hinge, Gravity-. S. Frey. No. 1,049,072; Dec. 31; Gaz. vol. 185; p. 1268.
Hinge-holding device. C. H. Schmidgall and O. A. Barnewolt. No. 1,037,547; Sept. 3; Gaz. vol. 182; p. 126.
Hinge, Invisible. E. Zuckerman. No. 1,039,628; Sept. 24; Gaz. vol. 182; p. 920.
Hinge-joint. J. Lilly. No. 1,029,699; June 18; Sp. p. 3547; Gaz. vol. 179; p. 627.
Hinge-joint for wall-beds, Invisible. C. Merritt. No. 1,039,986; Oct. 1; Gaz. vol. 183; p. 105.
Hinge-joint for wind-shields. P. N. Landine. No. 1,026,813; May 21; Sp. p. 3785; Gaz. vol. 178; p. 655.
Hinge, Lock-. F. W. Becker. No. 1,018,691; Feb. 27; Sp. p. 5474; Gaz. vol. 175; p. 949.
Hinge member, Gate-. W. A. Webster. No. 1,019,389; Mar. 5; Sp. p. 901; Gaz. vol. 176; p. 133.
Hinge, Noiseless pivot-. E. E. Kelley. No. 1,026,750; May 21; Sp. p. 3645; Gaz. vol. 178; p. 634.
Hinge, Reel-. E. E. Tucholke. No. 1,033,966; July 30; Gaz. vol. 180; p. 1213.
Hinge-seat cutter. W. E. Franklin. No. 1,043,584; Nov. 5; Gaz. vol. 184; p. 192.
Hinge, Spring-. W. C. Nolte. No. 1,016,515; Feb. 6; Sp. p. 653; Gaz. vol. 175; p. 98.
Hinge, Spring-. P. E. Howard. No. 1,027,654; May 28; Sp. p. 5612; Gaz. vol. 178; p. 980.
Hinge, Spring-. S. Lundberg. No. 1,029,876; June 18; Sp. p. 3952; Gaz. vol. 179; p. 688.
Hinge, Spring-. W. J. Keene. No. 1,032,144; July 9; Gaz. vol. 180; p. 487.
Hinge, Spring-. J. M. Zuk. No. 1.043,999; Nov. 12; Gaz. vol. 184; p. 367.
Hinge, Spring check-. J. M. Zuk. No. 1,041,223; Oct. 15; Gaz. vol. 183; p. 590.
Hinge, Spring floor-. H. G. Voight. No. 1,040,968; Oct. 8; Gaz. vol. 183; p. 469.
Hinge, Spring-opening. C. E. Berry. No. 1.019,940; Mar. 12; Sp. p. 2001; Gaz. vol. 176; p. 346.
Hinge, Stay-. P. J. Steiger. No. 1,042,985; Oct. 29; Gaz. vol. 183; p. 1252.
Hinge structure for seal-holders and the like. T. C. Ware. No. 1,040,821; Oct. 8; Gaz. vol. 183; p. 421.
Hinge, Wind-shield. W. A. Pearson. No. 1,039,588; Sept. 24; Gaz. vol. 182; p. 907.
Hinges, Alining-plate for floor-. O. Katzenberger. No. 1,018,391; Feb. 20; Sp. p. 4765; Gaz. vol. 175; p. 815.
Hinges, Alining-plate for floor-. O. Katzenberger. No. 1,037,149; Aug. 27; Gaz. vol. 181; p. 1033.
Hinges, Applying. A. S. Lowden. No. 1,016,341; Feb. 6; Sp. p. 239; Gaz. vol. 175; p. 37.
Hinges, Forming. G. E. Toms and T. P. Bla' No. 1,035,661; Aug. 13; Gaz. vol. 181; p. 457.
Hip-reducer and hose-supporter, Combined. M. E. G. Darrah. No. 1,016,614; Feb. 6; Sp. p. 887; Gaz. vol. 175; p. 132.
Hitch, Combination manure-spreader. C. C. Schultz. No. 1,028,500; June 4; Sp. p. 964; Gaz. vol. 179; p. 145.
Hitch, Combined horse-. L. P. Heseman. No. 1,041,469; Oct. 15; Gaz. vol. 183; p. 672.
Hitch. Humane. J. G. Fischer and E. Chinn. No. 1,036,207; Aug. 20; Gaz. vol. 181; p. 683.
Hitch or draft device. J. M. Sailer. No. 1,044,581; Nov. 19; Gaz. vol. 184; p. 596.
Hitching device. J. T. and F. H. McClendon. No. 1,016,348; Feb. 6; Sp. p. 256; Gaz. vol. 175; p. 40.
Hitching device. C. H. Patten, J. L. Gray, and P. J. Bue. No. 1,031,815; July 9; Gaz. vol. 180; p. 378.
Hitching device, Automatic. D. A. Callaway. No. 1,044,136; Nov. 12; Gaz. vol. 184; p. 412.
Hitching-strap. B. Gizzi. No. 1,037,613; Sept. 3; Gaz. vol. 182; p. 146.
Hitching-strap. P. W. Luecke. No. 1,037,782; Sept. 3; Gaz. vol. 182; p. 202.
Hitching-strap. T. Lynch. No. 1,041,644; Oct. 15; Gaz. vol. 183; p. 729.
Hobby-horse and high chair. J. L. Peters. No. 1,025,422; May 7; Sp. p. 690; Gaz. vol. 178; p. 109.
Hobby-horse, Self-propelled. O. D. Bartow. No. 1,042,308; Oct. 22; Gaz. vol. 183; p. 989.
Hoe. J. W. Congear. No. 1,015,478; Jan. 23; Sp. p. 5287; Gaz. vol. 174; p. 905.
Hoe. H. W. Caudell. No. 1,023,720; Apr. 16; Sp. p. 4140; Gaz. vol. 177; p. 727.
Hoe. A. Redding. No. 1,034,834; Aug. 6; Gaz. vol. 181; p. 146.
Hoe. J. W. Bush. No. 1,037,590; Sept. 3; Gaz. vol. 182; p. 139.
Hoe and potato-digger, Combined. C. E. Shafer. No. 1,026,470; May 14; Sp. p. 3047; Gaz. vol. 178; p. 503.
Hoe, Wheel-. H. R. Hilton. No. 1,040,325; Oct. 8; Gaz. vol. 183; p. 250.
Hoes, Manufacturing. E. P. Alexander. No. 1,014,432; Jan. 9; Sp. p. 2982; Gaz. vol. 174; p. 494.
Hoeing-machine. W. R. Sturgiss. No. 1,040,589; Oct. 8; Gaz. vol. 183; p. 342.
Hog-rack. R. E. Sharp. No. 1,044,271; Nov. 12; Gaz. vol. 184; p. 459.
Hog-scraping machine. W. E. P. Meier. No. 1,024,412; Apr. 23; Sp. p. 5679; Gaz. vol. 177; p. 989.
Hog-scraping machine. L. Burk. No. 1,036,959; Aug. 27; Gaz. vol. 181; p. 969.
Hog-suspending device. G. Stephens, Jr. No. 1,017,185; Feb. 13; Sp. p. 2128; Gaz. vol. 175; p. 364.
Hoist. M. Davis. No. 1,025,516; May 7; Sp. p. 913; Gaz. vol. 178; p. 142.
Hoist. E. Y. Moore. No. 1,035,030; Aug. 6; Gaz. vol. 181; p. 209.
Hoist controlling system, Electric-. F. I. Smith. No. 1,043,036; Oct. 29; Gaz. vol. 183; p. 1271.
Hoist, Dock-. F. Hayes. No. 1,048,157; Dec. 24; Gaz. vol. 185; p. 916.
Hoist, Fluid-operated. W. H. Butz. No. 1,029,849; June 18; Sp. p. 3895; Gaz. vol. 179; p. 678.
Hoist, Grab-bucket. S. H. Libby. No. 1,019,500; Mar. 5; Sp. p. 1144; Gaz. vol. 176; p. 168.
Hoist, Multiple. W. A. Barker. No. 1,022,349; Apr. 2; Sp. p. 1243; Gaz. vol. 177; p. 199.
Hoister-bucket-dumping appliance. A. Lambert. No. 1,034,806; Aug. 6; Gaz. vol. 181; p. 136.
Hoisting and conveying apparatus. C. E. Elm. No. 1,034,386; July 30; Gaz. vol. 180; p. 1361.
Hoisting and conveying apparatus. J. L. Potter. No. 1,042,264; Oct. 22; Gaz. vol. 183; p. 975.
Hoisting and conveying machine. E. W. Taylor. No. 1,035,265; Aug. 13; Gaz. vol. 181; p. 320.
Hoisting apparatus. H. C. Warnitz. No. 1,021,564; Mar. 26; Sp. p. 5448; Gaz. vol. 176; p. 981.
Hoisting apparatus. J. S. Ewert. No. 1,021,585; Mar. 26; Sp. p. 5495; Gaz. vol. 176; p. 987.
Hoisting apparatus. L. O. Forman. No. 1,024,885; Apr. 30; Sp. p. 6764; Gaz. vol. 177; p. 1190.
Hoisting apparatus. C. O. Pearson. No. 1,026,118; May 14; Sp. p. 2275; Gaz. vol. 178; p. 384.
Hoisting apparatus. E. Brown. No. 1,026,901; May 21; Sp. p. 3999; Gaz. vol. 178; p. 687.
Hoisting apparatus. A. E. Norris. No. 1,027,884; May 28; Sp. p. 6159; Gaz. vol. 178; p. 1057.
Hoisting apparatus. F. M. Daugherty. No. 1,030,771; June 25; Sp. p. 6140; Gaz. vol. 179; p. 1042.
Hoisting apparatus. C. K. Ernst. No. 1,038,329; Sept. 10; Gaz. vol. 182; p. 419.
Hoisting apparatus. J. W. Hammond and J. F. Donahue. No. 1,039,733; Oct. 1; Gaz. vol. 183; p. 21.
Hoisting apparatus. C. Carstens. No. 1,041,020; Oct. 15; Gaz. vol. 183; p. 521.
Hoisting apparatus. C. Zetterlund. No. 1,048,927; Dec. 31; Gaz. vol. 185; p. 1218.
Hoisting apparatus, Electrically-operated. F. E. Lutz. No. 1,015,901; Jan. 30; Sp. p. 6181; Gaz. vol. 174; p. 1078.
Hoisting apparatus, Portable. C. K. Newbert. No. 1,033,451; July 23; Gaz. vol. 180; p. 1013.
Hoisting device. H. A. Myers. No. 1,014,326; Jan. 9; Sp. p. 2741; Gaz. vol. 174; p. 457.
Hoisting device. H. A. Myers. No. 1,014,327; Jan. 9; Sp. p. 2744; Gaz. vol. 174; p. 457.
Hoisting device. J. M. Howard. No. 1,035,442; Aug. 13; Gaz. vol. 181; p. 383.
Hoisting device. H. A. Myers. No. 1,040,386; Oct. 8; Gaz. vol. 183; p. 270.
Hoisting-drum. A. D. Hadsel. No. 1,015,487; Jan. 23; Sp. p. 5302; Gaz. vol. 174; p. 909.
Hoisting-drum. N. C. Miller. No. 1,019,269; Mar. 5; Sp. p. 575; Gaz. vol. 176; p. 92.
Hoisting-engine. T. S. Miller. No. 1,024,520; Apr. 30; Sp. p. 5962; Gaz. vol. 177; p. 1062.
Hoisting-engine and boiler, Duplex steam. A. Lambert. No. 1,043,441; Nov. 5; Gaz. vol. 184; p. 141.
Hoisting-gear. H. Windhoff. No. 1,021,347; Mar. 26; Sp. p. 4965; Gaz. vol. 176; p. 906.
Hoisting-hooks, Attaching. C. D. Morley. No. 1,045,587; Nov. 26; Gaz. vol. 184; p. 976.
Hoisting-machine. J. G. Fogarty. No. 1,021,402; Mar. 26; Sp. p. 5118; Gaz. vol. 176; p. 925.
Hoisting-machine. H. G. Johnston. No. 1,027,253; May 21; Sp. p. 4793; Gaz. vol. 178; p. 808.
Hoisting-machinery brake. G. A. Armington. No. 1,020,014; Mar. 12; Sp. p. 2146; Gaz. vol. 176; p. 370.
Hoisting machinery, Swivel for. A. C. Graham. No. 1,048,475; Dec. 24; Gaz. vol. 185; p. 1024.
Hoisting mechanism for brick-setters, &c. R. C. Penfield. No. 1,025,155; May 7; Sp. p. 94; Gaz. vol. 178; p. 17.
Hoisting pieces of furniture, &c., through windows of upper stories of buildings, Apparatus for. J. Dorin. No. 1,045,131; Nov. 26; Gaz. vol. 184; p. 815.
Hoisting-sling. T. J. Sammon. No. 1,027,907; May 28; Sp. p. 6209; Gaz. vol. 178; p. 1065.
Hoisting-tower. F. R. McCune. No. 1,013,886; Jan. 9; Sp. p. 1780; Gaz. vol. 174; p. 305.
Holdback. W. A. Hagerman. No. 1,022,626; Apr. 9; Sp. p. 1844; Gaz. vol. 177; p. 323.
Holdback, Adjustable. S. G. Hughes. No. 1,038,141; Sept. 10; Gaz. vol. 182; p. 355.
Holdback, Thill-. J. V. Bayer. No. 1,040,847; Oct. 8; Gaz. vol. 183; p. 429.
Holder. M. B. Morgan. No. 1,016,353; Feb. 6; Sp. p. 262; Gaz. vol. 175; p. 41.

Alphabetical list of inventions—Continued.

Holder and carrier, Collapsible. W. F. Donley. No. 1,043,572; Nov. 5; Gaz. vol. 184; p. 189.
Holder or mail-box. C. O. Keagy and J. R. Carmer. No. 1,018,913; Feb. 27; Sp. p. 5943; Gaz. vol. 175; p. 1024.
Holder-reel. C. A. Coggeshall. No. 1,023,816; Apr. 23; Sp. p. 4349; Gaz. vol. 177; p. 786.
Holding device. E. Erickson. No. 1,037,882; Sept. 10; Gaz. vol. 182; p. 269.
Holding device. C. F. Church. No. 1,041,028; Oct. 15; Gaz. vol. 183; p. 523.
Hole-straightener. H. R. Decker. No. 1,045,954; Dec. 3; Gaz. vol. 185; p. 54.
Hollow bodies from quartz, Manufacture of. F. Wolf-Burckhardt. No. 1,031,900; July 9; Gaz. vol. 180; p. 407.
Hollow-body-shaping apparatus. G. W. Beadle. No. 1,034,567; Aug. 6; Gaz. vol. 181; p. 56.
Hollow section. P. B. Motley. No. 1,023,163; Apr. 16; Sp. p. 3052; Gaz. vol. 177; p. 547.
Homogeneous mechanical junctures, Making. A. B. Herrick. No. 1,046,464; Dec. 10; Gaz. vol. 185; p. 270.
Homogenizer. J. Willmann. No. 1,037,815; Sept. 3; Gaz. vol. 182; p. 212.
Homogenizing apparatus. A. Fay. No. 1,019,953; Mar. 12; Sp. p. 2024; Gaz. vol. 176; p. 350.
Hone. R. Itschner. No. 1,032,908; July 16; Gaz. vol. 180; p. 793.
Honing and stropping device. A. K. Hanson. No. 1,027,045; May 21; Sp. p. 4343; Gaz. vol. 178; p. 737.
Honing or sharpening machine, Blade. H. Christiansen. No. 1,034,422; Aug. 6; Gaz. vol. 181; p. 8.
Honey-frame. H. Perkins. No. 1,014,171; Jan. 9; Sp. p. 2396; Gaz. vol. 174; p. 401.
Hood, cape, and veil, Convertible. M. Johnstone. No. 1,042,351; Oct. 22; Gaz. vol. 183; p. 1003.
Hood-extending device. B. H. Baker. No. 1,049,286; Dec. 31; Gaz. vol. 185; p. 1340.
Hood, Fresh-air sleeping-. A. Bennett. No. 1,022,459; Apr. 9; Sp. p. 1500; Gaz. vol. 177; p. 268.
Hood or awning. W. T. Keiter. No. 1,048,544; Dec. 31; Gaz. vol. 185; p. 1085.
Hood, Roll-top balanced. B. F. Carpenter. No. 1,038,287; Sept. 10; Gaz. vol. 182; p. 405.
Hoof-parer. C. Bursell. No. 1,023,990; Apr. 23; Sp. p. 4763; Gaz. vol. 177; p. 845.
Hoof-protector. H. S. Erb. No. 1,036,592; Aug. 27; Gaz. vol. 181; p. 848.
Hoof-trimmer. J. E. Arthur. No. 1,043,189; Nov. 5; Gaz. vol. 184; p. 51.
Hook: *See* Back-band hook; Belt-hook; Brick-hook; Canthook; Chain-hook; Check-hook; Checkrein-hook; Clamp-hook; Clothes-hook; Davit-hook; Door or gate hook; Garment-hook; Garment-fastening hook; Grass-hook; Grate-hook; Hame-hook; Harness-hook; Hasp-hook; Lacing-hook; Ladder-hook; Locking-hook; Logging-hook; Picture-hook; Printer's plate-hook; Printer's register-hook; Releasing-hook; Safety-hook; Signal-device hook; Snap-hook; Straining-hook; Swivel-hook; Weed-hook; Weeding-hook; Whiffletree-hook.
Hook. H. Knox. No. 1,014,008; Jan. 9; Sp. p. 2053; Gaz. vol. 174; p. 346.
Hook. P. L. Dills. No. 1,015,149; Jan. 16; Sp. p. 4550; Gaz. vol. 174; p. 761.
Hook. N. C. Garland. No. 1,017,530; Feb. 13; Sp. p. 2865; Gaz. vol. 175; p. 483.
Hook. W. R. Smith. No. 1,031,390; July 2; Gaz. vol. 180; p. 190.
Hook. J. M. Pehrson. No. 1,032,935; July 16; Gaz. vol. 180; p. 801.
Hook. H. J. Price. No. 1,045,882; Dec. 3; Gaz. vol. 185; p. 30.
Hook. C. Jass. No. 1,046,302; Dec. 3; Gaz. vol. 185; p. 176.
Hook and ear. E. Oppenheim. No. 1,036,315; Aug. 20; Gaz. vol. 181; p. 720.
Hook and eye. A. M. Schneider. No. 1,037,334; Sept. 3; Gaz. vol. 182; p. 52.
Hook and eye. E. M. Rhodes. No. 1,040,758; Oct. 8; Gaz. vol. 183; p. 401.
Hook and eye. T. A. O'Donnell and M. Ferri. No. 1,045,596; Nov. 26; Gaz. vol. 184; p. 979.
Hook-feeding mechanism. W. L. Curtis. No. 1,042,407; Oct. 29; Gaz. vol. 183; p. 1050.
Hook for hanging pictures, &c. M. Dehn. No. 1,034,886; Aug. 6; Gaz. vol. 181; p. 164.
Hook for hanging pictures and the like. M. Dehn. No. 1,039,367; Sept. 24; Gaz. vol. 182; p. 829.
Hook-setting machine. P. Bammer. No. 1,035,140; Aug. 13; Gaz. vol. 181; p. 276.
Hook-setting machine. A. Raiche. No. 1,036,710; Aug. 27; Gaz. vol. 181; p. 886.
Hook-setting-machine anvil. P. Bammer. No. 1,035,141; Aug. 13; Gaz. vol. 181; p. 276.
Hooks and eyes, Means for attaching. J. P. Williams. No. 1,046,046; Dec. 3; Gaz. vol. 185; p. 85.
Hooks, eyes, and loops, Mount for. H. C. Goodrich. No. 1,019,735; Mar. 5; Sp. p. 1574; Gaz. vol. 176; p. 245.
Hooks, Making leather-covered. H. W. Owen. No. 1,030,425; June 25; Sp. p. 5157; Gaz. vol. 179; p. 918.
Hoop: *See* Bulge-hoop; Cheese-hoop; Embroidery-hoop; Expansion-hoop.
Hoop-forming machine, Metal-. H. C. Herr. No. 1,043,832; Nov. 12; Gaz. vol. 184; p. 307.
Hoop-lug. N. Johnson. No. 1,018,829; Feb. 27; Sp. p. 5777; Gaz. vol. 175; p. 998.
Hoops, Apparatus for manufacturing metallic. C. L. Bréhier. No. 1,021,300; Mar. 26; Sp. p. 4869; Gaz. vol. 176; p. 889.
Hop-cluster stemmer. G. E. Miller. No. 1,013,505; Jan. 2; Sp. p. 906; Gaz. vol. 174; p. 145.
Hopper and trap-door therefor, Combined charging-. P. F. Dundon. No. 1,040,906; Oct. 8; Gaz. vol. 183; p. 448.
Hopper, Conveyer-. H. S. Gardner. No. 1,036,993; Aug. 27; Gaz. vol. 181; p. 981.
Hopper, Distributing-. H. E. Pritchett. No. 1,038,957; Sept. 17; Gaz. vol. 182; p. 672.
Hopper, Dry-food. C. H. Felker. No. 1,022,668; Apr. 9; Sp. p. 1937; Gaz. vol. 177; p. 337.
Hopper, Feed-. C. F. Ball. No. 1,014,280; Jan. 9; Sp. p. 2647; Gaz. vol. 174; p. 441.
Hopper, Feed-. H. W. Dewey. No. 1,028,445; June 4; Sp. p. 849; Gaz. vol. 179; p. 127.
Hopper, Feed-. F. Blanchett. No. 1,029,660; June 18; Sp. p. 3446; Gaz. vol. 179; p. 612.
Hopper, Filling-replenishing. J. Northrop. No. 1,014,770; Jan. 16; Sp. p. 3743; Gaz. vol. 174; p. 637.
Hoppers, Feed attachment for. W. A. Joplin. No. 1,029,998; June 18; Sp. p. 4202; Gaz. vol. 179; p. 729.
Horizon for ships, &c., Artificial. W. Hinz. No. 1,016,500; Feb. 6; Sp. p. 604; Gaz. vol. 175; p. 93.
Horn. E. C. Schmidhofer. No. 1,022,509; Apr. 9; Sp. p. 1591; Gaz. vol. 177; p. 284.
Horn. W. Sparks. No. 1,048,466; Dec. 24; Gaz. vol. 185; p. 1020.
Horn, Automobile-. W. E. Stephens. No. 1,015,595; Jan. 23; Sp. p. 5533; Gaz. vol. 174; p. 947.
Horn-gap switch and lightning-arrester. A. W. Burke. No. 1,022,619; Apr. 9; Sp. p. 1831; Gaz. vol. 177; p. 320.
Horn or alarm, Diaphragm. S. Rosofsky. No. 1,025,998; May 14; Sp. p. 1982; Gaz. vol. 178; p. 341.
Horn or whistle. J. B. Rogers. No. 1,036,342; Aug. 20; Gaz. vol. 181; p. 729.
Horn or whistle. E. B. Chapman. No. 1,048,942; Dec. 31; Gaz. vol. 185; p. 1224.
Horn pressure and locking mechanism, Work-supporting-. P. A. Coupal. No. 1,031,985; July 9; Gaz. vol. 180; p. 435.
Horn, shell, and the like, Manufacture of imitation. F. Lebreil and R. Desgeorge. No. 1,023,022; Apr. 9; Sp. p. 2697; Gaz. vol. 177; p. 460.
Horn, Signal-. I. E. Stump. No. 1,013,905; Jan. 9; Sp. p. 1823; Gaz. vol. 174; p. 312.
Horn, Signal-. I. E. Stump. No. 1,034,530; Aug. 6; Gaz. vol. 181; p. 43.
Horn, Signal-. I. E. Stump. No. 1,034,531; Aug. 6; Gaz. vol. 181; p. 43.
Horn, Sounding-. A. Williamson. No. 1,017,938; Feb. 20; Sp. p. 3797; Gaz. vol. 175; p. 659.
Horse-blanket. W. M. Lyman. No. 1,042,807; Oct. 29; Gaz. vol. 183; p. 1192.
Horse-boot. C. B. Tuttle. No. 1,036,750; Aug. 27; Gaz. vol. 181; p. 900.
Horse-boot. G. H. St. John. No. 1,043,978; Nov. 12; Gaz. vol. 184; p. 359.
Horse-boot, Antislipping. S. M. Behrens. No. 1,044,432; Nov. 12; Gaz. vol. 184; p. 514.
Horse boot or shoe. C. W. Conklin. No. 1,029,594; June 18; Sp. p. 3308; Gaz. vol. 179; p. 588.
Horse-controlling device. F. S. McManigal. No. 1,045,308; Nov. 26; Gaz. vol. 184; p. 877.
Horse-detacher. G. R. Harrison. No. 1,018,707; Feb. 27; Sp. p. 5514; Gaz. vol. 175; p. 954.
Horse-detacher. H. G. Backermann. No. 1,033,654; July 23; Gaz. vol. 180; p. 1081.
Horse-detacher. W. F. Bengs. No. 1,034,569; Aug. 6; Gaz. vol. 181; p. 57.
Horse-detacher. G. Harer. No. 1,038,572; Sept. 17; Gaz. vol. 182; p. 538.
Horse-detacher. R. N. Anderson. No. 1,044,119; Nov. 12; Gaz. vol. 184; p. 407.
Horse-detaching device. H. J. Mitchell. No. 1,015,699; Jan. 23; Sp. p. 5761; Gaz. vol. 174; p. 982.
Horse-hitching device. G. K. F. Jack. No. 1,038,894; Sept. 17; Gaz. vol. 182; p. 651.
Horse-hitching device. C. E. Sullivan. No. 1,048,370; Dec. 24; Gaz. vol. 185; p. 988.
Horse-hitching weight. W. D. Lee. No. 1,024,406; Apr. 23; Sp. p. 5668; Gaz. vol. 177; p. 987.
Horse-hoes, Riding attachment for. C. E. Libby. No. 1,036,281; Aug. 20; Gaz. vol. 181; p. 709.
Horse ice-boot. E. W. Hunter. No. 1,034,801; Aug. 6; Gaz. vol. 181; p. 135.
Horse lift-rake. J. E. B. Jarvis. No. 1,044,458; Nov. 12; Gaz. vol. 184; p. 522.
Horse-nose clamp. F. Pfustler. No. 1,047,284; Dec. 17; Gaz. vol. 185; p. 587.
Horse-nose protector. R. D. Crum. No. 1,044,864; Nov. 19; Gaz. vol. 184; p. 694.
Horse-overshoe. T. J. Gorman, Sr. No. 1,028,709; June 4; Sp. p. 1376; Gaz. vol. 179; p. 214.

Alphabetical list of inventions—Continued.

Horse-overshoe. H. Kassik. No. 1,029,132; June 11; Sp. p. 2310; Gaz. vol. 179; p. 394.
Horse-overshoe. Z. Mangum. No. 1,032,919; July 16; Gaz. vol. 180; p. 796.
Horse-overshoe. L. Reinach. No. 1,037,534; Sept. 3; Gaz. vol. 182; p. 121.
Horse-overshoe. J. F. Herman. No. 1,039,736; Oct. 1; Gaz. vol. 183; p. 23.
Horse-overshoe. C. G. Delano. No. 1,040,166; Oct. 1; Gaz. vol. 183; p. 166.
Horse-overshoe, Antislipping. A. L. Hardisty. No. 1,023,845; Apr. 23; Sp. p. 4431; Gaz. vol. 177; p. 796.
Horse-overshoe, Antislipping. C. M. McClay. No. 1,031,281; July 2; Gaz. vol. 180; p. 153.
Horse-overshoe, Non-slipping. J. B. Kopf. No. 1,023,431; Apr. 16; Sp. p. 3578; Gaz. vol. 177; p. 636.
Horse-releaser. F. Chandler. No. 1,027,374; May 21; Sp. p. 5043; Gaz. vol. 178; p. 849.
Horse-releaser. J. G. Francis. No. 1,030,071; June 18; Sp. p. 4372; Gaz. vol. 179; p. 754.
Horse-releaser. E. Bell and R. E. Menteer. No. 1,032,981; July 16; Gaz. vol. 180; p. 816.
Horse-releaser. J. R. Burleson. No. 1,037,860; Sept. 10; Gaz. vol. 182; p. 261.
Horse-releaser. F. Redlich. No. 1,043,971; Nov. 12; Gaz. vol. 184; p. 357.
Horse-releaser. T. E. Vilven. No. 1,046,040; Dec. 3; Gaz. vol. 185; p. 83.
Horse-releaser. H. Warfield. No. 1,047,350; Dec. 17; Gaz. vol. 185; p. 612.
Horse-releasing device. R. E. Barrett. No. 1,021,297; Mar. 26; Sp. p. 4864; Gaz. vol. 176; p. 888.
Horse-releasing device. T. Gensmer. No. 1,043,920; Nov. 12; Gaz. vol. 184; p. 338.
Horses and other hoofed animals, Overshoe for. J. E. MacDonald. No. 1,023,086; Apr. 9; Sp. p. 2835; Gaz. vol. 177; p. 482.
Horses and the like, Overshoe for. A. Tilley. No. 1,045,912; Dec. 3; Gaz. vol. 185; p. 40.
Horses, Device for stopping runaway. T. Watanabe. No. 1,026,012; May 14; Sp. p. 2006; Gaz. vol. 178; p. 346.
Horses' manes, Holder for. B. C. McDonald. No. 1,024,690; Apr. 30; Sp. p. 6365; Gaz. vol. 177; p. 1121.
Horses, Overcheck breaking-bit for kicking. D. H. Hogan. No. 1,034,452; Aug. 6; Gaz. vol. 181; p. 17.
Horses, Strangler for. J. L. Michael. No. 1,019,684; Mar. 5; Sp. p. 1479; Gaz. vol. 176; p. 229.
Horseshoe. W. Ruff. No. 1,016,853; Feb. 6; Sp. p. 1372; Gaz. vol. 175; p. 211.
Horseshoe. J. A. Neil. No. 1,017,228; Feb. 13; Sp. p. 2233; Gaz. vol. 175; p. 380.
Horseshoe. E. K. Powell. No. 1,019,358; Mar. 5; Sp. p. 809; Gaz. vol. 176; p. 122.
Horseshoe. L. Ahrens and E. M. Gilowsky. No. 1,019,401; Mar. 5; Sp. p. 931; Gaz. vol. 176; p. 136.
Horseshoe. G. B. Kyle. No. 1,019,493; Mar. 5; Sp. p. 1130; Gaz. vol. 176; p. 166.
Horseshoe. R. L. Taylor. No. 1,024,426; Apr. 23; Sp. p. 5705; Gaz. vol. 177; p. 993.
Horseshoe. C. Allen. No. 1,026,842; May 21; Sp. p. 3857; Gaz. vol. 178; p. 666.
Horseshoe. W. M. Fletcher. No. 1,027,410; May 28; Sp. p. 5124; Gaz. vol. 178; p. 899.
Horseshoe. J. A. Billado. No. 1,027,804; May 28; Sp. p. 5927; Gaz. vol. 178; p. 1029.
Horseshoe. A. M. H. De Bruycker. No. 1,030,168; June 18; Sp. p. 4555; Gaz. vol. 179; p. 787.
Horseshoe. W. E. Messacar. No. 1,030,478; June 25; Sp. p. 5283; Gaz. vol. 179; p. 937.
Horseshoe. J. W. Shook. No. 1,031,476; July 2; Gaz. vol. 180; p. 219.
Horseshoe. E. Lewis and G. Broadhurst. No. 1,032,552; July 16; Gaz. vol. 180; p. 672.
Horseshoe. T. C. Octigan. No. 1,032,563; July 16; Gaz. vol. 180; p. 675.
Horseshoe. W. J. Hoover and C. T. Kurtz. No. 1,033,402; July 23; Gaz. vol. 180; p. 999.
Horseshoe. E. C. Sheuffel. No. 1,034,842; Aug. 6; Gaz. vol. 181; p. 148.
Horseshoe. C. Rose. No. 1,035,051; Aug. 6; Gaz. vol. 181; p. 216.
Horseshoe. F. A. Bushey and F. G. Harcourt. No. 1,035,530; Aug. 13; Gaz. vol. 181; p. 413.
Horseshoe. E. E. Cook. No. 1,035,537; Aug. 13; Gaz. vol. 181; p. 415.
Horseshoe. J. P. Kiefer. No. 1,035,969; Aug. 20; Gaz. vol. 181; p. 597.
Horseshoe. G. Robins. No. 1,036,718; Aug. 27; Gaz. vol. 181; p. 889.
Horseshoe. H. Graw. No. 1,038,118; Sept. 10; Gaz. vol. 182; p. 347.
Horseshoe. C. L. Winston. No. 1,039,002; Sept. 17; Gaz. vol. 182; p. 687.
Horseshoe. C. A. Kley. No. 1,040,353; Oct. 8; Gaz. vol. 183; p. 259.
Horseshoe. P. C. Ketterer. No. 1,040,958; Oct. 8; Gaz. vol. 183; p. 466.
Horseshoe. T. Drew. No. 1,041,450; Oct. 15; Gaz. vol. 183; p. 666.
Horseshoe. J. H. Casserleigh. No. 1,041,959; Oct. 22; Gaz. vol. 183; p. 874.
Horseshoe. H. A. Malo. No. 1,043,856; Nov. 12; Gaz. vol. 184; p. 315.
Horseshoe. A. G. Lundin. No. 1,044,550; Nov. 19; Gaz. vol. 184; p. 584.
Horseshoe. G. F. Liden. No. 1,045,573; Nov. 26; Gaz. vol. 184; p. 972.
Horseshoe. F. Krätzig. No. 1,048,180; Dec. 24; Gaz. vol. 185; p. 924.
Horseshoe and calk. H. R. Huntley. No. 1,043,597; Nov. 5; Gaz. vol. 184; p. 197.
Horseshoe attachment. M. S. Reigh. No. 1,033,469; July 23; Gaz. vol. 180; p. 1020.
Horseshoe attachment. S. Noro. No. 1,034,820; Aug. 6; Gaz. vol. 181; p. 141.
Horseshoe attachment, Emergency. T. J. Ragan. No. 1,034,300; July 30; Gaz. vol. 180; p. 1330.
Horseshoe-calk. A. Roth, Jr. No. 1,015,839; Jan. 30; Sp. p. 6046; Gaz. vol. 174; p. 1055.
Horseshoe-calk. P. S. Palmer. No. 1,022,867; Apr. 9; Sp. p. 2375; Gaz. vol. 177; p. 407.
Horseshoe-calk. W. I. and J. Miller. No. 1,026,449; May 14; Sp. p. 3009; Gaz. vol. 178; p. 496.
Horseshoe-calk. J. W. Bodilly. No. 1,033,080; July 23; Gaz. vol. 180; p. 888.
Horseshoe-calk. W. Gordon. No. 1,046,287; Dec. 3; Gaz. vol. 185; p. 170.
Horseshoe-calk attachment. R. Paton. No. 1,016,708; Feb. 6; Sp. p. 1076; Gaz. vol. 175; p. 165.
Horseshoe-calk clamp. G. J. Helfrich. No. 1,038,883; Sept. 17; Gaz. vol. 182; p. 647.
Horseshoe clipping and bending machine. L. Carpenter. No. 1,014,451; Jan. 9; Sp. p. 3019; Gaz. vol. 174; p. 500.
Horseshoe, Cushion-. W. B. Harrell. No. 1,033,315; July 23; Gaz. vol. 180; p. 970.
Horseshoe, Cushioned. G. E. McKinnon. No. 1,042,943; Oct. 29; Gaz. vol. 183; p. 1237.
Horseshoe, Detachable. V. Mancini. No. 1,037,947; Sept. 10; Gaz. vol. 182; p. 292.
Horseshoe, Emergency-. G. J. Exterkamp. No. 1,032,475; July 16; Gaz. vol. 180; p. 646.
Horseshoe-pattern holder. G. S. MacLeod. No. 1,031,192; July 2; Gaz. vol. 180; p. 122.
Horseshoe, Spring-. D. S. and F. P. F. Wilt. No. 1,032,097; July 9; Gaz. vol. 180; p. 473.
Horseshoe, Spring-. D. S. Wilt and C. E. Belford. No. 1,035,508; Aug. 13; Gaz. vol. 181; p. 405.
Horseshoe, Supplemental. A. Bernstein. No. 1,020,792; Mar. 19; Sp. p. 3804; Gaz. vol. 176; p. 666.
Horseshoes, Antislipping attachment for. W. F. Walsh. No. 1,032,716; July 16; Gaz. vol. 180; p. 730.
Horseshoeing-machine. Z. J. Plamondon. No. 1,035,734; Aug. 13; Gaz. vol. 181; p. 480.
Horticultural forcing-house. A. Frieling. No. 1,026,576; May 14; Sp. p. 3248; Gaz. vol. 178; p. 537.
Hose. F. R. Neff. No. 1,026,598; May 14; Sp. p. 3292; Gaz. vol. 178; p. 544.
Hose and other joints, Clip or socket for. A. H. G. Girling. No. 1,045,277; Nov. 26; Gaz. vol. 184; p. 867.
Hose and pipe coupling. H. L. Irwin. No. 1,044,183; Nov. 12; Gaz. vol. 184; p. 427.
Hose and tire connector, Automatic. E. J. Rohrbacher. No. 1,034,511; Aug. 6; Gaz. vol. 181; p. 37.
Hose attachment. P. R. Robbins. No. 1,027,155; May 21; Sp. p. 4605; Gaz. vol. 178; p. 773.
Hose-band. H. Gibbs. No. 1,040,926; Oct. 8; Gaz. vol. 183; p. 455.
Hose-band tightener. H. Gibbs. No. 1,034,100; July 30; Gaz. vol. 180; p. 1261.
Hose-carriage. P. G. Esler. No. 1,022,583; Apr. 9; Sp. p. 1750; Gaz. vol. 177; p. 308.
Hose-clamp. J. S. Graham. No. 1,023,639; Apr. 16; Sp. p. 4006; Gaz. vol. 177; p. 703.
Hose-clamp. F. H. Baldwin. No. 1,030,151; June 18; Sp. p. 4522; Gaz. vol. 179; p. 781.
Hose-clamp. A. W. France. No. 1,032,664; July 16; Gaz. vol. 180; p. 711.
Hose-clamp. A. L. P. Perry. No. 1,036,324; Aug. 20; Gaz. vol. 181; p. 723.
Hose-clamp. C. Marion. No. 1,047,962; Dec. 24; Gaz. vol. 185; p. 851.
Hose-clamps, Machine for attaching. G. Christenson. No. 1,039,096; Sept. 24; Gaz. vol. 182; p. 733.
Hose-coating machine. H. Z. Cobb. No. 1,039,697; Oct. 1; Gaz. vol. 183; p. 8.
Hose connection. J. P. Tierney and L. Csernai. No. 1,046,901; Dec. 10; Gaz. vol. 185; p. 422.
Hose-conveyer. C. J. and J. Schneider, J. H. Loeffler, and C. Fleck. No. 1,028,612; June 4; Sp. p. 1193; Gaz. vol. 179; p. 182.
Hose-coupling. J. G. Haymaker. No. 1,016,744; Feb. 6; Sp. p. 1444; Gaz. vol. 175; p. 176.
Hose-coupling. E. Le Breton. No. 1,017,775; Feb. 20; Sp. p. 3412; Gaz. vol. 175; p. 601.
Hose-coupling. S. S. Watson. No. 1,019,000; Feb. 27; Sp. p. 6142; Gaz. vol. 175; p. 1056.
Hose-coupling. T. H. Manchester. No. 1,019,979; Mar. 12; Sp. p. 2073; Gaz. vol. 176; p. 358.
Hose-coupling. T. H. Manchester and E. H. Gold. No. 1,019,980; Mar. 12; Sp. p. 2075; Gaz. vol. 176; p. 358.

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Hose-coupling. A. B. Magnuson. No. 1,020,615; Mar 19; Sp. p. 3423; Gaz. vol. 176; p. 606.
Hose-coupling. A. Boyer. No. 1,021,127; Mar. 26; Sp. p. 4499; Gaz. vol. 176; p. 830.
Hose-coupling. E. H. L. Englund. No. 1,022,624; Apr. 9; Sp. p. 1839; Gaz. vol. 177; p. 322.
Hose-coupling. J. W. and J. E. Stine. No. 1,022,759; Apr. 9; Sp. p. 2171; Gaz. vol. 177; p. 372.
Hose-coupling. V. Sanphy. No. 1,024,285; Apr. 23; Sp. p. 5419; Gaz. vol. 177; p. 949.
Hose-coupling. E. H. Gold. No. 1,024,627; Apr. 30; Sp. p. 6236; Gaz. vol. 177; p. 1099.
Hose-coupling. C. E. Campbell. No. 1,028,187; June 4; Sp. p. 292; Gaz. vol. 179; p. 37.
Hose-coupling. H. B. Robinson. No. 1,029,715; June 18; Sp. p. 3586; Gaz. vol. 179; p. 633.
Hose-coupling. J. Nylander. No. 1,029,819; June 18; Sp. p. 3809; Gaz. vol. 179; p. 668.
Hose-coupling. P. M. Reisik. No. 1,031,587; July 2; Gaz. vol. 180; p. 255.
Hose-coupling. J. M. Towne. No. 1,032,519; July 16; Gaz. vol. 180; p. 660.
Hose-coupling. B. J. Dickinson. No. 1,033,554; July 23; Gaz. vol. 180; p. 1047.
Hose-coupling. C. C. Schultz. No. 1,036,349; Aug. 20; Gaz. vol. 181; p. 732.
Hose-coupling. P. Bonadio. No. 1,039,354; Sept. 24; Gaz. vol. 182; p. 824.
Hose-coupling. C. Hill. No. 1,039,536; Sept. 24; Gaz. vol. 182; p. 888
Hose-coupling. C. Parsons. No. 1,039,584; Sept. 24; Gaz. vol. 182; p. 906.
Hose-coupling. C. E. Judkins. No. 1,042,684; Oct. 29; Gaz. vol. 183; p. 1149.
Hose-coupling. J. A. Fieser. No. 1,043,683; Nov. 5; Gaz. vol. 184; p. 225.
Hose-coupling. V. Dahl. No. 1,043,806; Nov. 12; Gaz. vol. 184; p. 298.
Hose-coupling. T. Clegg and G. Gee. No. 1,044,495; Nov. 19; Gaz. vol. 184; p. 565.
Hose-coupling. J. H. Irving and M. Pedersen. No. 1,047,063; Dec. 10; Gaz. vol. 185; p. 475.
Hose coupling, Air-. M. Hendricks. No. 1,033,890; July 30; Gaz. vol. 180; p. 1187.
Hose-coupling and hose-fastener. W. E. Patrick. No. 1,038,948; Sept. 17; Gaz. vol. 182; p. 669.
Hose coupling, Automatic air-. W. A. Weil. No. 1,047,352; Dec. 17; Gaz. vol. 185; p. 612.
Hose-coupling, Metal. H. H. Ball. No. 1,044,335; Nov. 12; Gaz. vol. 184; p. 481.
Hose-coupling, Swivel-joint. J. H. Bundy. No. 1,020,258; Mar. 12; Sp. p. 2662; Gaz vol. 176; p. 452.
Hose-coupling washer. A. Whipple. No. 1,019,572; Mar. 5; Sp. p. 1274; Gaz. vol. 176; p. 190.
Hose-lock. O. V. Jackson. No. 1,030,184; June 18; Sp. p. 4603; Gaz. vol. 179; p. 793.
Hose, Machine for manufacturing. A. C. Bolton. No. 1,028,067; May 28; Sp. p. 6528; Gaz. vol. 178; p. 1116.
Hose-making machine. S. J. Sill. No. 1,024,604; Apr. 30; Sp. p. 6185; Gaz. vol. 177; p. 1091.
Hose-nozzle. H. Gibbs. No. 1,014,386; Jan. 9; Sp. p. 2894; Gaz. vol. 174; p. 479.
Hose-nozzle. G. W. McCoole. No. 1,017,638; Feb. 13; Sp. p. 3068; Gaz. vol. 175; p. 517.
Hose-nozzle. H. F. Goetz. No. 1,017,966; Feb. 20; Sp. p. 3861; Gaz. vol. 175; p. 668.
Hose-nozzle. S. Frey. No. 1,018,310; Feb. 20; Sp. p. 4585; Gaz. vol. 175; p. 787.
Hose-nozzle. H. Gibbs. No. 1,034,101; July 30; Gaz. vol. 180; p. 1262.
Hose-nozzle and sprayer. R. Porter and L. Krueger. No. 1,016,173; Jan. 30; Sp. p. 6739; Gaz. vol. 174; p. 1172.
Hose-nozzle and sprayer, Combination. F. J. French. No. 1,026,742; May 21; Sp. p. 3631; Gaz. vol. 178; p. 631.
Hose-nozzle holder, Adjustable. C. J. Lundquist. No. 1,016,281; Feb. 6; Sp. p. 105; Gaz. vol. 175; p. 16.
Hose-nozzles, Spray attachment for. R. C. Malmquist. No. 1,044,795; Nov. 19; Gaz. vol. 184; p. 672.
Hose-patch. S. McRae and J. H. Blom. No. 1,017,265; Feb. 13; Sp. p. 2304; Gaz. vol. 175; p. 392.
Hose-patch. J. H. Osborn. No. 1,032,078; July 9; Gaz. vol. 180; p. 466.
Hose-pipe coupling. T. Brookfield. No. 1,038,840; Sept. 17; Gaz. vol. 182; p. 633.
Hose-pipe, Metallic flexible. B. M. Pechstein. No. 1,023,032; Apr. 9; Sp. p. 2714; Gaz. vol. 177; p. 464.
Hose-protector. R. W. Burnett. No. 1,044,013; Nov. 12; Gaz. vol. 184; p. 371.
Hose-protector. W. Washington. No. 1,046,516; Dec. 10; Gaz. vol. 185; p. 289.
Hose-rack. H. J. M. Howard. No. 1,018,764; Feb. 27; Sp. p. 5641; Gaz. vol. 175; p. 975.
Hose-reel. R. W. Glenn. No. 1,017,532; Feb. 13; Sp. p. 2870; Gaz. vol. 175; p. 484.
Hose-reel. C. Wagner. No. 1,043,647; Nov. 5; Gaz. vol. 184; p. 213.
Hose-reel. C. Wagner. No. 1,046,909; Dec. 10; Gaz. vol. 185; p. 426.
Hose-reel. R. L. Notman. No. 1,048,863; Dec. 31; Gaz. vol. 185; p. 1196.
Hose-reel, Automatic. A. L. Olsson. No. 1,034,285; July 30; Gaz. vol. 180; p. 1325.
Hose reel, Garden-. E. D. Merikle. No. 1,030,199; June 18; Sp. p. 4640; Gaz. vol. 179; p. 797.
Hose, Steam-. E. E. Gold. No. 1,015,311; Jan. 23; Sp. p. 4901; Gaz. vol. 174; p. 849.
Hose-support. C. Nuhring. No. 1,045,069; Nov. 19; Gaz. vol. 184; p. 766.
Hose-support for fire-hose. P. Mueller and W. T. Mason. No. 1,023,218; Apr. 16; Sp. p. 3164; Gaz. vol. 177; p. 566.
Hose-supporter. O. F. Brower. No. 1,019,880; Mar. 12; Sp. p. 1866; Gaz. vol. 176; p. 326.
Hose-supporter. J. C. Dietrich. No. 1,020,132; Mar. 12; Sp. p. 2399; Gaz. vol. 176; p. 409.
Hose-supporter. C. Sayers. No. 1,022,267; Apr. 2; Sp. p. 1082; Gaz. vol. 177; p. 173.
Hose-supporter. S. J. Agbay. No. 1,025,229; May 7; Sp. p. 262; Gaz. vol. 178; p. 44.
Hose-supporter. A. Gottschalk. No. 1,041,618; Oct. 15; Gaz. vol. 183; p. 719.
Hose-supporter. W. B. Hill. No. 1,042,223; Oct. 22; Gaz. vol. 183; p. 962.
Hose-supporter. N. F. Schafuss. No. 1,045,618; Nov. 26; Gaz. vol. 184; p. 988.
Hose supporter, Adjustable garden-. W. O. Smith. No. 1,046,033; Dec. 3; Gaz. vol. 185; p. 80.
Hose-supporter strip. C. J. White. No. 1,023,101; Apr. 9; Sp. p. 2863; Gaz. vol. 177; p. 487.
Hose-supporters, Tension-anchor for. C. R. McBride. No. 1,015,054; Jan. 16; Sp. p. 4380; Gaz. vol. 174; p. 735.
Hose-supporting clasp. D. H. Buell. No. 1,040,139; Oct. 1; Gaz. vol. 183; p. 157.
Hose-supporting device. W. Humbaugh. No. 1,036,120; Aug. 20; Gaz. vol. 181; p. 651.
Hose to coupling-nipples, Clamping-band for attaching. J. W. Free. No. 1,028,937; June 11; Sp. p. 1892; Gaz. vol. 179; p. 327.
Hose-toe-protector-forming machine. J. Ranz. No. 1,030,920; July 2; Gaz. vol. 180; p. 23.
Hosiery. A. W. Newman. No. 1,017,310; Feb. 13; Sp. p. 2397; Gaz. vol. 175; p. 408.
Hosiery. R. W. Scott. No. 1,037,669; Sept. 3; Gaz. vol. 182; p. 166.
Hosiery and knitting same, Shaped seamless. R. W. Scott. No. 1,042,152; Oct. 22; Gaz. vol. 183; p. 938.
Hosiery-drying mechanism. W. H. Ermentrout. No. 1,037,224; Sept. 3; Gaz. vol. 182; p. 16.
Hosiery-form, Electrically-heated. F. M. Vogel. No. 1,046,514; Dec. 10; Gaz. vol. 185; p. 289.
Hosiery-frames, Welting mechanism for flat. M. S. Esche. No. 1,024,842; Apr. 30; Sp. p. 6683; Gaz. vol. 177; p. 1176.
Hosiery-turner. C. H. Matthews. No. 1,030,520; June 25; Sp. p. 5409; Gaz. vol. 179; p. 952.
Hospital appliance. W. M. Ingman. No. 1,047,231; Dec. 17; Gaz. vol. 185; p. 566.
Hot-air bath. A. Klotz. No. 1,039,962; Oct. 1; Gaz. vol. 183; p. 97.
Hot-air engine. S. J. Webb. No. 1,038,805; Sept. 17; Gaz. vol. 182; p. 620.
Hot-air furnace. W. C. H. Noble. No. 1,013,304; Jan. 2; Sp. p. 483; Gaz. vol. 174; p. 76.
Hot-air furnace. W. H. Swett. No. 1,026,777; May 21; Sp. p. 3715; Gaz. vol. 178; p. 644.
Hot-air furnace. J. S. Kemp. No. 1,035,599; Aug. 13; Gaz. vol. 181; p. 436.
Hot-air furnace. M. Dickson. No. 1,042,654; Oct. 29; Gaz. vol. 183; p. 1139.
Hot-air furnace. A. A. Keays. No. 1,043,941; Nov. 12; Gaz. vol. 184; p. 346.
Hot-air furnace. C. H. Lee. No. 1,044,669; Nov. 19; Gaz. vol. 184; p. 627.
Hot-air furnace, Gas-burning. J. L. Whitney. No. 1,024,757; Apr. 30; Sp. p. 6503; Gaz. vol. 177; p. 1145.
Hot-air heater. H. Strand. No. 1,014,347; Jan. 9; Sp. p. 2812; Gaz. vol. 174; p. 465.
Hot-air heater. J. H. Garner. No. 1,037,894; Sept. 10; Gaz. vol. 182; p. 273.
Hot-bearing alarm. R. L. Jobson. No. 1,035,710; Aug. 13; Gaz. vol. 181; p. 472.
Hot-water and steam boiler. P. Brunk. No. 1,044,132; Nov. 12; Gaz. vol. 184; p. 411.
Hot-water-circulating systems, Electric gas-igniter for. G. W. Appler. No. 1,032,727; July 16; Gaz. vol. 180; p. 733.
Hot-water heater. J. B. Miller. No. 1,018,256; Feb. 20; Sp. p. 4485; Gaz. vol. 175; p. 770.
Hot-water heater. J. A. Hill. No. 1,022,844; Apr. 9; Sp. p. 2340; Gaz. vol. 177; p. 400.
Hot-water heater. A. J. Gohmann. No. 1,025,084; Apr. 30; Sp. p. 7165; Gaz. vol. 177; p. 1257.
Hot-water heater. J. D. Hopkins. No. 1,033,588; July 23; Gaz. vol. 180; p. 1059.
Hot-water heater and sterilizer. C. J. Madonna. No. 1,047,668; Dec. 17; Gaz. vol. 185; p. 723.
Hot-water heater, Instantaneous. T. H. Stephenson. No. 1,016,044; Jan. 30; Sp. p. 6493; Gaz. vol. 174; p. 1129.
Hot-water heater, Instantaneous. T. H. Stephenson. No. 1,031,393; July 2; Gaz. vol. 180; p. 191.

Alphabetical list of inventions—Continued.

Hot-water heater, Instantaneous gas. A. Beler. No. 1,025,777; May 7; Sp. p. 1465; Gaz. vol. 178; p. 231.
Hot-water heater, Vertical. A. Grant. No. 1,046,178; Dec. 3; Gaz. vol. 185; p. 130.
Hot-water or steam heater. W. A. Wiedebusch. No. 1,024,660; Apr. 30; Sp. p. 6301; Gaz. vol. 177; p. 1110.
Hot-water plate. L. Wojidkow. No. 1,045,101; Nov. 19; Gaz. vol. 184; p. 776.
Hot-water system, Portable. F. C. Hayes. No. 1,037,905; Sept. 10; Gaz. vol. 182; p. 278.
Hot-water vessel. S. W. Longan. No. 1,043,612; Nov. 5; Gaz. vol. 184; p. 202.
Hotbed. A. W. Griffith. No. 1,027,124; May 21; Sp. p. 4546; Gaz. vol. 178; p. 764.
Hotbeds, Transfer mechanism for. J. Simpson. No. 1,015,350; Jan. 23; Sp. p. 4996; Gaz. vol. 174; p. 862.
Hotel-register. J. W. Thompson. No. 1,036,028; Aug. 20; Gaz. vol. 181; p. 616.
Hotel room-rack. D. B. Beatson. No. 1,030,766; June 25; Sp. p. 6122; Gaz. vol. 179; p. 1040.
House; *See* Bag-house; Farrowing-house; Horticultural forcing-house; Poultry-house; Sheet-metal house; Smoke-house.
House-ventilator. E. Goldberg. No. 1,014,058; Jan. 9; Sp. p. 2171; Gaz. vol. 174; p. 363.
Housekeeper's reminder. A. F. Rae. No. 1,026,768; May 21; Sp. p. 3702; Gaz. vol. 178; p. 641.
Hover. W. L. Niemann. No. 1,041,852; Oct. 22; Gaz. vol. 183; p. 838.
Howitzers, Elevating and loading gear of. A. T. Dawson and G. T. Buckham. No. 1,043,512; Nov. 5; Gaz. vol. 184; p. 168.
Hub. J. D. Jones. No. 1,045,298; Nov. 26; Gaz. vol. 184; p. 873.
Hub. A. L. Lewis. No. 1,045,712; Nov. 26; Gaz. vol. 184; p. 1022.
Hub. C. C. Wilson. No. 1,048,252; Dec. 24; Gaz. vol. 185; p. 946.
Hub and bearing-sleeve, Wheel-. L. Holland-Letz. No. 1,024,726; Apr. 30; Sp. p. 6436; Gaz. vol. 177; p. 1134.
Hub and shock-absorber, Combined vehicle-. C. L. Kennedy. No. 1,041,077; Oct. 15; Gaz. vol. 183; p. 548.
Hub-attacher. T. Haulton. No. 1,047,805; Dec. 17; Gaz. vol. 185; p. 769.
Hub-bearing. S. R. Coppins. No. 1,035,421; Aug. 13; Gaz. vol. 181; p. 376.
Hub-boring machine. C. F. Schoen. No. 1,045,329; Nov. 26; Gaz. vol. 184; p. 884.
Hub box, Wheel-. J. D. Jones. No. 1,020,287; Mar. 12; Sp. p. 2723; Gaz. vol. 176; p. 461.
Hub-brake. A. Carlson. No. 1,020,798; Mar. 19; Sp. p. 3816; Gaz. vol. 176; p. 668.
Hub-cap. F. Whitney. No. 1,037,814; Sept. 3; Gaz. vol. 182; p. 212.
Hub, Detachable. J. E. Hartsook. No. 1,033,170; July 23; Gaz. vol. 180; p. 920.
Hub for recording instruments, Chart-. E. H. Bristol. No. 1,048,804; Dec. 31; Gaz. vol. 185; p. 1177.
Hub for vehicle-wheels, Pneumatic. T. Duysens. No. 1,021,240; Mar. 26; Sp. p. 4747; Gaz. vol. 176; p. 867.
Hub for vehicle-wheels, Resilient. E. J. and I. G. Seifried. No. 1,022,567; Apr. 9; Sp. p. 1715; Gaz. vol. 177; p. 303.
Hub for vehicle-wheels, Resilient. E. Yoder. No. 1,044,619; Nov. 19; Gaz. vol. 184; p. 609.
Hub for vehicle-wheels, Resilient antifriction-. C. G. Capwell. No. 1,036,188; Aug. 20; Gaz. vol. 181; p. 675.
Hub for vehicle-wheels, Shock-absorbing. J. W. Tilton. No. 1,041,702; Oct. 15; Gaz. vol. 183; p. 749.
Hub for vehicle-wheels, Spring-. H. B. Bigsby and W. M. Lewis. No. 1,039,014; Sept. 17; Gaz. vol. 182; p. 690.
Hub for wheels, Resilient. C. A. White and F. McLaughlin. No. 1,040,599; Oct. 8; Gaz. vol. 183; p. 345.
Hub for wire wheels. S. A. Currin. No. 1,037,733; Sept. 3; Gaz. vol. 182; p. 186.
Hub, Lubricating-. B. F. Fowler. No. 1,043,684; Nov. 5; Gaz. vol. 184; p. 226.
Hub, Lubricating-. A. Bong. No. 1,046,955; Dec. 10; Gaz. vol. 185; p. 441.
Hub, Metal. G. E. Babcock. No. 1,045,103; Nov. 19; Gaz. vol. 184; p. 777.
Hub-odometer. H. P. C. Browne. No. 1,027,031; May 21; Sp. p. 4313; Gaz. vol. 178; p. 733.
Hub-plate for wheels. M. Christman. No. 1,028,677; June 4; Sp. p. 1317; Gaz. vol. 179; p. 203.
Hub plate, Wheel-. M. Christman. No. 1,020,885; Mar. 19; Sp. p. 3998; Gaz. vol. 176; p. 697.
Hub, Pneumatic. C. E. De Boos. No. 1,019,591; Mar. 5; Sp. p. 1309; Gaz. vol. 176; p. 197.
Hub, Pneumatic. N. E. Andrie. No. 1,028,656; June 4; Sp. p. 1280; Gaz. vol. 179; p. 197.
Hub, Pneumatic wheel-. F. J. Koch. No. 1,018,428; Feb. 27; Sp. p. 4859; Gaz. vol. 175; p. 860.
Hub, Roller-bearing. W. C. Eberhart and S. Glaser. No. 1,022,307; Apr. 2; Sp. p. 1154; Gaz. vol. 177; p. 185.
Hub, Shock-absorbing. A. R. Fellows. No. 1,014,135; Jan. 9; Sp. p. 2332; Gaz. vol. 174; p. 389.
Hub, Shock-absorbing. A. R. Fellows. No. 1,014,136; Jan. 9; Sp. p. 2333; Gaz. vol. 174; p. 390.
Hub, Shock-absorbing. A. R. Fellows. No. 1,014,137; Jan. 9; Sp. p. 2334; Gaz. vol. 174; p. 390.
Hub, Spring-. D. A. Pickens. No. 1,013,436; Jan. 2; Sp. p. 763; Gaz. vol. 174; p. 121.
Hub, Spring-. G. H. Davis. No. 1,029,429; June 11; Sp. p. 2970; Gaz. vol. 179; p. 497.
Hub, Spring-. D. Smail. No. 1,044,277; Nov. 12; Gaz. vol. 184; p. 461.
Hub, Vehicle wheel-. C. Christiansen. No. 1,013,743; Jan. 2; Sp. p. 1447; Gaz. vol. 174; p. 227.
Hub, Vehicle wheel-. G. T. Reichenbach. No. 1,014,177; Jan. 9; Sp. p. 2407; Gaz. vol. 174; p. 403.
Hub, Vehicle-wheel spring-. G. H. Herrick. No. 1,044,524; Nov. 19; Gaz. vol. 184; p. 576.
Hub, Wagon-. E. A. Krider. No. 1,021,610; Mar. 26; Sp. p. 5543; Gaz. vol. 176; p. 995.
Hub, Wheel-. M. T. Long. No. 1,013,188; Jan. 2; Sp. p. 192; Gaz. vol. 174; p. 34.
Hub, Wheel-. F. W. J. Goersch. No. 1,021,247; Mar. 26; Sp. p. 4765; Gaz. vol. 176; p. 870.
Hub, Wheel-. W. T. Pursglove. No. 1,021,476; Mar. 26; Sp. p. 5275; Gaz. vol. 176; p. 951.
Hub, Wheel-. J. J. McGuire. No. 1,024,270; Apr. 23; Sp. p. 5396; Gaz. vol. 177; p. 945.
Hub-wrench. C. C. Lewis. No. 1,039,765; Oct. 1; Gaz. vol. 183; p. 32.
Hub-wrench. W. B. Traylor. No. 1,045,914; Dec. 3; Gaz. vol. 185; p. 41.
Hubs upon sheet-metal articles, Making. C. F. Currey. No. 1,048,046; Dec. 24; Gaz. vol. 185; p. 878.
Huller; *See* Clover-huller; Coffee-huller; Nut-huller; Pea-huller; Seed-huller.
Huller-gin. S. D. Murray. No. 1,028,772; June 4; Sp. p. 1513; Gaz. vol. 179; p. 236.
Humidifier. R. C. Herren. No. 1,013,772; Jan. 2; Sp. p. 1508; Gaz. vol. 174; p. 238.
Humidifier. F. B. Comins. No. 1,026,946; May 21; Sp. p. 4127; Gaz. vol. 178; p. 703.
Humidifier. C. Subert. No. 1,035,492; Aug. 13; Gaz. vol. 181; p. 400.
Humidifier and disinfector. F. Kocher. No. 1,027,856; May 28; Sp. p. 6081; Gaz. vol. 178; p. 1048.
Humidifier, Centrifugal. H. H. Clark. No. 1,040,885; Oct. 8; Gaz. vol. 183; p. 441.
Humidor. W. H. Browning. No. 1,017,379; Feb. 13; Sp. p. 2535; Gaz. vol. 175; p. 430.
Humidor. H. W. Doughty. No. 1,026,154; May 14; Sp. p. 2347; Gaz. vol. 178; p. 396.
Humidor. R. A. Wilson. No. 1,035,507; Aug. 13; Gaz. vol. 181; p. 404.
Humidor, Pocket-. J. E. Gelder. No. 1,038,563; Sept. 17; Gaz. vol. 182; p. 535.
Humidostat-regulator. W. M. Clark. No. 1,042,893; Oct. 29; Gaz. vol. 183; p. 1221.
Hurdle. V. Gilkey. No. 1,013,386; Jan. 2; Sp. p. 657; Gaz. vol. 174; p. 104.
Hurdle, Adjustable folding. H. M. Brook. No. 1,044,128; Nov. 12; Gaz. vol. 184; p. 410.
Husker. J. G. Fejfar. No. 1,029,055; June 11; Sp. p. 2139; Gaz. vol. 179; p. 368.
Husking device. J. S. Hofer and J. P. Stahl. No. 1,026,585; May 14; Sp. p. 3265; Gaz. vol. 178; p. 540.
Hydrant. J. H. Whitehouse. No. 1,021,959; Apr. 2; Sp. p. 447; Gaz. vol. 177; p. 72.
Hydrant. H. F. V. Meurling. No. 1,036,674; Aug. 27; Gaz. vol. 181; p. 875.
Hydrant. G. W. Hayden. No. 1,038,748; Sept. 17; Gaz. vol. 182; p. 601.
Hydrant. O. F. Smith. No. 1,040,447; Oct. 8; Gaz. vol. 183; p. 290.
Hydrant. T. H. Ballard. No. 1,044,336; Nov. 12; Gaz. vol. 184; p. 481.
Hydrant. J. D. Jones. No. 1,047,067; Dec. 10; Gaz. vol. 185; p. 476.
Hydrant-outlet. M. O. Linscott and W. A. McIntosh. No. 1,020,917; Mar. 19; Sp. p. 4049; Gaz. vol. 176; p. 708.
Hydrant, Reel-operated. W. J. Clay. No. 1,041,743; Oct. 22; Gaz. vol. 183; p. 798.
Hydraulic apparatus. H. Beau. No. 1,047,489; Dec. 17; Gaz. vol. 185; p. 658.
Hydraulic apparatus and means for operating the same. W. A. Doble. No. 1,028,197; June 4; Sp. p. 312; Gaz. vol. 179; p. 41.
Hydraulic duplex motor. O. Angelini. No. 1,034,332; July 30; Gaz. vol. 180; p. 1341.
Hydraulic engine, Centrifugal. M. Goudard and M. Mennesson. No. 1,032,892; July 16; Gaz. vol. 180; p. 787.
Hydraulic intensifier, Steam. T. E. Holmes. No. 1,045,029; Nov. 19; Gaz. vol. 184; p. 752.
Hydraulic jack. F. I. Joyce. No. 1,016,692; Feb. 6; Sp. p. 1045; Gaz. vol. 175; p. 159.
Hydraulic jack. G. Nicolai. No. 1,022,865; Apr. 9; Sp. p. 2372; Gaz. vol. 177; p. 406.
Hydraulic jack. H. Cordell. No. 1,032,993; July 16; Gaz. vol. 180; p. 820.
Hydraulic jack. F. I. Joyce. No. 1,046,073; Dec. 3; Gaz. vol. 185; p. 94.
Hydraulic jack. F. Lynt. No. 1,046,207; Dec. 3; Gaz. vol. 185; p. 140.
Hydraulic jack. W. J. Drugan. No. 1,047,007; Dec. 10; Gaz. vol. 185; p. 457.

Alphabetical list of inventions—Continued.

Hydraulic lubricator. F. Mueller. No. 1,024,692; Apr. 30; Sp. p. 6368; Gaz. vol. 177; p. 1122.
Hydraulic lubricator. F. Mueller. No. 1,024,693; Apr. 30; Sp. p. 6369; Gaz. vol. 177; p. 1122.
Hydraulic machine. A. W. Harris. No. 1,043,101; Nov. 5; Gaz. vol. 184; p. 18.
Hydraulic motor. P. T. Coffield. No. 1,018,961; Feb. 27; Sp. p. 6042; Gaz. vol. 175; p. 1042.
Hydraulic motor. N. V. Johnson. No. 1,024,340; Apr. 23; Sp. p. 5509; Gaz. vol. 177; p. 965.
Hydraulic motor. J. F. Prosser. No. 1,026,177; May 14; Sp. p. 2392; Gaz. vol. 178; p. 403.
Hydraulic motor. R. S. Carr. No. 1,031,911; July 9; Gaz. vol. 180; p. 411.
Hydraulic motor. L. Purpura. No. 1,032,344; July 9; Gaz. vol. 180; p. 558.
Hydraulic motor. J. H. Champ. No. 1,032,531; July 16; Gaz. vol. 180; p. 664.
Hydraulic motor. H. C. Chambers. No. 1,037,865; Sept. 10; Gaz. vol. 182; p. 263.
Hydraulic motor. J. E. Fee. No. 1,042,420; Oct. 29; Gaz. vol. 183; p. 1056.
Hydraulic motor. E. H. Lindsley. No. 1,043,849; Nov. 12; Gaz. vol. 184; p. 313.
Hydraulic-power plant. C. O. Tappan. No. 1,018,278; Feb. 20; Sp. p. 4520; Gaz. vol. 175; p. 777.
Hydraulic-power plant. J. T. Dougine. No. 1,024,188; Apr. 23; Sp. p. 5218; Gaz. vol. 177; p. 914.
Hydraulic press. W. Astfalck. No. 1,020,176; Mar. 12; Sp. p. 2492; Gaz. vol. 176; p. 425.
Hydraulic press. M. Rothe. No. 1,024,024; Apr. 23; Sp. p. 4824; Gaz. vol. 177; p. 856.
Hydraulic press. W. P. Bettendorf. No. 1,028,986; June 11; Sp. p. 1996; Gaz. vol. 179; p. 344.
Hydraulic-press-feeding mechanism. W. P. Bettendorf. No. 1,021,501; Mar. 26; Sp. p. 5327; Gaz. vol. 176; p. 960.
Hydraulic press for producing hollow earthenware bodies. E. Dor-Delattre. No. 1,027,597; May 28; Sp. p. 5499; Gaz. vol. 178; p. 961.
Hydraulic press, Steam. L. Iversen. No. 1,028,356; June 4; Sp. p. 645; Gaz. vol. 179; p. 97.
Hydraulic presses, Flipper for feed mechanism of. W. P. Bettendorf. No. 1,028,987; June 11; Sp. p. 1998; Gaz. vol. 179; p. 345.
Hydraulic transmission, Regulating device for. E. Schneider. No. 1,040,430; Oct. 8; Gaz. vol. 183; p. 285.
Hydraulic transmission, Reversible. P. English. No. 1,028,451; June 4; Sp. p. 859; Gaz. vol. 179; p. 129.
Hydraulic traverse mechanism. E. S. Cole. No. 1,025,111; Apr. 30; Sp. p. 7223; Gaz. vol. 177; p. 1266.
Hydro-electric unit. W. A. Doble. No. 1,028,554; June 4; Sp. p. 1070; Gaz. vol. 179; p. 163.
Hydroaeroplane. E. Forlanini. No. 1,024,067; Apr. 23; Sp. p. 4920; Gaz. vol. 177; p. 872.
Hydroaeroplane. E. P. Ekman. No. 1,026,304; May 14; Sp. p. 2673; Gaz. vol. 178; p. 447.
Hydroaeroplane, Cable or track controlled. H. M. Smith. No. 1,030,024; June 18; Sp. p. 4257; Gaz. vol. 179; p. 737.
Hydrocarbon-burner. O. F. Shearman and C. F. Erdmann. No. 1,017,180; Feb. 13; Sp. p. 2113; Gaz. vol. 175; p. 362.
Hydrocarbon-burner. M. S. Clarke. No. 1,017,621; Feb. 13; Sp. p. 3025; Gaz. vol. 175; p. 511.
Hydrocarbon-burner. J. P. Black. No. 1,019,124; Mar. 5; Sp. p. 259; Gaz. vol. 176; p. 40.
Hydrocarbon-burner. R. W. Lawton. No. 1,020,612; Mar. 19; Sp. p. 3420; Gaz. vol. 176; p. 605.
Hydrocarbon-burner. J. R. Green. No. 1,021,186; Mar. 26; Sp. p. 4630; Gaz. vol. 176; p. 849.
Hydrocarbon-burner. C. Backinger. No. 1,022,348; Apr. 2; Sp. p. 1240; Gaz. vol. 177; p. 199.
Hydrocarbon-burner. R. L. D'Espujols. No. 1,023,422; Apr. 16; Sp. p. 3559; Gaz. vol. 177; p. 634.
Hydrocarbon-burner. A. R. Anthony. No. 1,023,707; Apr. 16; Sp. p. 4113; Gaz. vol. 177; p. 722.
Hydrocarbon-burner. A. G. Sherman. No. 1,024,868; Apr. 30; Sp. p. 6737; Gaz. vol. 177; p. 1185.
Hydrocarbon-burner. R. Liddell. No. 1,028,892; June 11; Sp. p. 1784; Gaz. vol. 179; p. 312.
Hydrocarbon-burner. A. R. Swaine. No. 1,028,976; June 11; Sp. p. 1969; Gaz. vol. 179; p. 340.
Hydrocarbon-burner. J. C. Dunham and F. A. Turner. No. 1,030,843; June 25; Sp. p. 6420; Gaz. vol. 179; p. 1069.
Hydrocarbon-burner. F. J. Nice. No. 1,031,365; July 2; Gaz. vol. 180; p. 181.
Hydrocarbon-burner. W. Humphrey and T. R. Stewart. No. 1,038,142; Sept. 10; Gaz. vol. 182; p. 356.
Hydrocarbon-burner. O. J. Effenbeck. No. 1,038,734; Sept. 17; Gaz. vol. 182; p. 595.
Hydrocarbon-burner. N. W. Mahaffey. No. 1,041,828; Oct. 22; Gaz. vol. 183; p. 830.
Hydrocarbon-burner. G. Pontbriant. No. 1,042,821; Oct. 29; Gaz. vol. 183; p. 1197.
Hydrocarbon-burner. A. Shackleton. No. 1,044,268; Nov. 12; Gaz. vol. 184; p. 458.
Hydrocarbon-burner. S. A. Sloan. No. 1,044,276; Nov. 12; Gaz. vol. 184; p. 461.
Hydrocarbon-burner. D. Chambers. No. 1,047,383; Dec. 17; Gaz. vol. 185; p. 621.
Hydrocarbon burner, Fluid-. P. Root. No. 1,022,263; Apr. 2; Sp. p. 1075; Gaz. vol. 177; p. 171.
Hydrocarbon burner, Fluid-. G. E. Benton. No. 1,033,079; July 23; Gaz. vol. 180; p. 888.
Hydrocarbon burner, Fluid-. E. B. Raymond and C. R. Watson. No. 1,039,194; Sept. 24; Gaz. vol. 182; p. 767.
Hydrocarbon-engine. H. Hyde and J. Gage. No. 1,022,027; Apr. 2; Sp. p. 587; Gaz. vol. 177; p. 93.
Hydrocarbon-engine. A. Butsch. No. 1,042,888; Oct. 29; Gaz. vol. 183; p. 1219.
Hydrocarbon-engine. G. A. Taff. No. 1,048,760; Dec. 31; Gaz. vol. 185; p. 1160.
Hydrocarbon engine, Liquid-. E. Hudson. No. 1,036,848; Aug. 27; Gaz. vol. 181; p. 933.
Hydrocarbon-furnace. J. A. Darst and M. Brittain. No. 1,025,054; Apr. 30; Sp. p. 7094; Gaz. vol. 177; p. 1247.
Hydrocarbon-generator. J. Stubbers. No. 1,042,987; Oct. 29; Gaz. vol. 183; p. 1253.
Hydrocarbon liquids, Purifying. T. S. Hamilton. No. 1,018,971; Feb. 27; Sp. p. 6075; Gaz. vol. 175; p. 1045.
Hydrocarbon-motor. S. D. Waldon. No. 1,036,756; Aug. 27; Gaz. vol. 181; p. 902.
Hydrocarbon-motor. P. Daimler. No. 1,046,988; Dec. 10; Gaz. vol. 185; p. 450.
Hydrocarbon, Producing diolefine. F. Hofmann, K. Delbrück, and K. Meisenburg. No. 1,048,967; Dec. 31; Gaz. vol. 185; p. 1232.
Hydrocarbon-vapor-generator control. J. Stubbers. No. 1,042,988; Oct. 29; Gaz. vol. 183; p. 1253.
Hydrocarbons into gas or vapor, Method of and apparatus for converting liquid. E. B. Benham. No. 1,040,124; Oct. 1; Gaz. vol. 183; p. 152.
Hydrocarbons, Making chlorinated. O. Graul. No. 1,045,139; Nov. 26; Gaz. vol. 184; p. 818.
Hydrocarbons, Producing halogenated paraffin. O. Graul and G. Hanschke. No. 1,032,822; July 16; Gaz. vol. 180; p. 765.
Hydrocarbons with more than one double bond, Producing aliphatic. F. Hofmann and C. Coutelle. No. 1,030,239; June 18; Sp. p. 4717; Gaz. vol. 179; p. 812.
Hydrochronograph. E. W. Eaton. No. 1,014,134; Jan. 9; Sp. p. 2330; Gaz. vol. 174; p. 389.
Hydrogen, Apparatus for the separation of. C. Von Linde. No. 1,027,863; May 28; Sp. p. 6092; Gaz. vol. 178; p. 1050.
Hydrogen by autocombustion, Preparation of. G. F. Jaubert. No. 1,029,064; June 11; Sp. p. 2158; Gaz. vol. 179; p. 372.
Hydrogen by autocombustion, Preparation of. G. F. Jaubert. No. 1,040,204; Oct. 1; Gaz. vol. 183; p. 179.
Hydrogen from a gaseous mixture, Apparatus for the separation of. C. Von Linde. No. 1,027,862; May 28; Sp. p. 6090; Gaz. vol. 178; p. 1050.
Hydrogen from gas mixtures containing hydrogen, Production of. C. von Linde. No. 1,020,102; Mar. 12; Sp. p. 2336; Gaz. vol. 176; p. 399.
Hydrogen from gaseous mixtures, Separation of. C. von Linde. No. 1,020,103; Mar. 12; Sp. p. 2338; Gaz. vol. 176; p. 400.
Hydrogen, Manufacturing. G. F. Jaubert. No. 1,037,919; Sept. 10; Gaz. vol. 182; p. 282.
Hydrogen peroxid and urea, Manufacture of a stable preparation from. H. Grüter and H. Pohl. No. 1,040,665; Oct. 8; Gaz. vol. 183; p. 371.
Hydrogen peroxid from impure persulfuric-acid solutions, Making. L. Löwenstein. No. 1,013,791; Jan. 2; Sp. p. 1533; Gaz. vol. 174; p. 244.
Hydrogen peroxid, Making solid stable compounds containing. V. Staněk. No. 1,045,451; Nov. 26; Gaz. vol. 184; p. 928.
Hydrogen peroxid, Making stable compounds containing. V. Staněk. No. 1,035,756; Aug. 13; Gaz. vol. 181; p. 487.
Hydrogen-peroxid solution, Stable. O. Liebknecht. No. 1,025,948; May 7; Sp. p. 1878; Gaz. vol. 178; p. 288.
Hydrogen, Purifying. G. H. Rabenalt. No. 1,034,646; Aug. 6; Gaz. vol. 181; p. 80.
Hydrogenating oily material. C. Ellis. No. 1,040,532; Oct. 8; Gaz. vol. 183; p. 321.
Hydrogenation. C. Ellis. No. 1,040,531; Oct. 8; Gaz. vol. 183; p. 320.
Hydrogenous compounds of tungsten and similar metals, Producing. H. Zerning. No. 1,019,581; Mar. 5; Sp. p. 1288; Gaz. vol. 176; p. 193.
Hydroplane. J. H. Pierce. No. 1,014,514; Jan. 9; Sp. p. 3124; Gaz. vol. 174; p. 520.
Hydropneumatic drill. C. K. Lassiter and F. E. Bocorselski. No. 1,046,311; Dec. 3; Gaz. vol. 185; p. 179.
Hydroquinin, Manufacture of. H. Thron. No. 1,038,027; Sept. 10; Gaz. vol. 182; p. 319.
Hydrotrain. W. R. Macklind. No. 1,014,313; Jan. 9; Sp. p. 2711; Gaz. vol. 174; p. 452.
Hygroscope. H. H. S. Cunynghame. No. 1,019,767; Mar. 12; Sp. p. 1650; Gaz. vol. 176; p. 288.
Hypodermic-needle case. J. Payne. No. 1,045,607; Nov. 26; Gaz. vol. 184; p. 984.

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I-beam of nine inches and under twelve inches in height, Solid rolled metal. H. Grey. No. 1,013,649; Jan. 2; Sp. p. 1230; Gaz. vol. 174; p. 194.
I-beam of sixteen inches and under twenty-five inches in height, Solid rolled metal. H. Grey. No. 1,013,651; Jan. 2; Sp. p. 1236; Gaz. vol. 174; p. 194.
I-beam of twelve inches and under sixteen inches in height, Solid rolled metal. H. Grey. No. 1,013,652; Jan. 2; Sp. p. 1239; Gaz. vol. 174; p. 195.
I-beam, Solid rolled metal eight-inch. H. Grey. No. 1,013,650; Jan. 2; Sp. p. 1233; Gaz. vol. 174; p. 194.
I-beams, Producing. H. Sack. No. 1,013,567; Jan. 2; Sp. p. 1031; Gaz. vol. 174; p. 166.
Ice, Apparatus for producing blocks or coatings of. M. C. J. Bannister. No. 1,013,470; Jan. 2; Sp. p. 830; Gaz. vol. 174; p. 133.
Ice-box. G. J. Gruendler. No. 1,019,631; Mar. 5; Sp. p. 1383; Gaz. vol. 176; p. 211.
Ice-box or refrigerator lining. W. von Baumbach. No. 1,017,633; Feb. 13; Sp. p. 3057; Gaz. vol. 175; p. 515.
Ice-breaker. W. E. Penn. No. 1,032,081; July 9; Gaz. vol. 180; p. 467.
Ice-breaker. J. L. Opp. No. 1,034,286; July 30; Gaz. vol. 180; p. 1326.
Ice-breaker. J. Deininger. No. 1,041,605; Oct. 15; Gaz. vol. 183; p. 715.
Ice-can. F. F. Bentley. No. 1,027,802; May 28; Sp. p. 5921; Gaz. vol. 178; p. 1029.
Ice, coal, ores, &c., Machine for picking, breaking, and operating on. A. B. Judson. No. 1,020,762; Mar. 19; Sp. p. 3745; Gaz. vol. 176; p. 657.
Ice-cream-cone dispenser. F. L. Tarbell. No. 1,041,192; Oct. 15; Gaz. vol. 183; p. 579.
Ice-cream-cone filler. J. W. Murray. No. 1,045,166; Nov. 26; Gaz. vol. 184; p. 827.
Ice-cream-cone holder. J. Renner. No. 1,044,911; Nov. 19; Gaz. vol. 184; p. 711.
Ice-cream-cone machine. J. W. West. No. 1,014,274; Jan. 9; Sp. p. 2627; Gaz. vol. 174; p. 438.
Ice-cream-cone machine. L. H. Lanier. No. 1,028,035; May 28; Sp. p. 6457; Gaz. vol. 178; p. 1106.
Ice-cream-cone machine. T. G. Perkins. No. 1,039,183; Sept. 24; Gaz. vol. 182; p. 763.
Ice-cream container. G. W. Crist. No. 1,041,033; Oct. 15; Gaz. vol. 183; p. 525.
Ice-cream cutter. M. L. Burkhardt. No. 1,042,080; Oct. 22; Gaz. vol. 183; p. 914.
Ice-cream dipper. J. Geier. No. 1,045,015; Nov. 19; Gaz. vol. 184; p. 747.
Ice-cream dispenser. C. Doering, Jr. No. 1,026,080; May 14; Sp. p. 2198; Gaz. vol. 178; p. 371.
Ice-cream freezer. W. B. McCann. No. 1,013,672; Jan. 2; Sp. p. 1287; Gaz. vol. 174; p. 201.
Ice-cream freezer. R. L. Jameson. No. 1,013,779; Jan. 2; Sp. p. 1517; Gaz. vol. 174; p. 241.
Ice-cream freezer. J. N. Beekman. No. 1,017,494; Feb. 13; Sp. p. 2793; Gaz. vol. 175; p. 471.
Ice-cream freezer. J. S. Parrish. No. 1,022,752; Apr. 9; Sp. p. 2155; Gaz. vol. 177; p. 369.
Ice-cream freezer. L. E. Hudson. No. 1,026,510; May 14; Sp. p. 3128; Gaz. vol. 178; p. 516.
Ice-cream freezer. H. Jurgens. No. 1,035,016; Aug. 6; Gaz. vol. 181; p. 205.
Ice-cream freezer. B. L. Henry. No. 1,037,762; Sept. 3; Gaz. vol. 182; p. 196.
Ice-cream-freezer dasher. E. I. Young. No. 1,033,649; July 23; Gaz. vol. 180; p. 1079.
Ice-cream-freezer-supporting attachment. I. G. Hopkins. No. 1,024,779; Apr. 30; Sp. p. 6550; Gaz. vol. 177; p. 1153.
Ice-cream-making machine. W. A. Model. No. 1,036,677; Aug. 27; Gaz. vol. 181; p. 876.
Ice-cream-storage can. L. R. Steel. No. 1,016,974; Feb. 13; Sp. p. 1653; Gaz. vol. 175; p. 290.
Ice-creeper. E. Wegmann-Eggmann. No. 1,023,603; Apr. 16; Sp. p. 3935; Gaz. vol. 177; p. 691.
Ice-creeper. J. Czél. No. 1,031,426; July 2; Gaz. vol. 180; p. 202.
Ice-creeper. E. A. Grout. No. 1,032,600; July 16; Gaz. vol. 180; p. 688.
Ice-creeper. M. B. Quackenbush. No. 1,034,508; Aug. 6; Gaz. vol. 181; p. 36.
Ice-creeper. M. Gibson. No. 1,034,997; Aug. 6; Gaz. vol. 181; p. 199.
Ice-creeper. R. Graff. No. 1,044,776; Nov. 19; Gaz. vol. 184; p. 666.
Ice-creeper. C. Kirton and W. J. Schillinger. No. 1,045,565; Nov. 26; Gaz. vol. 184; p. 969.
Ice-creeper. J. Sperling. No. 1,047,716; Dec. 17; Gaz. vol. 185; p. 740.
Ice-creeper. R. E. Maass. No. 1,049,113; Dec. 31; Gaz. vol. 185; p. 1282.
Ice-crusher. J. M. Nelson. No. 1,013,509; Jan. 2; Sp. p. 914; Gaz. vol. 174; p. 146.
Ice-crusher. J. Goodman. No. 1,043,418; Nov. 5; Gaz. vol. 184; p. 133.
Ice-crusher. E. C. Miller. No. 1,048,332; Dec. 24; Gaz. vol. 185; p. 974.
Ice-cutter. J. Wirkus. No. 1,018,597; Feb. 27; Sp. p. 5290; Gaz. vol. 175; p. 918.
Ice-cutting apparatus. F. B. Clark. No. 1,016,550; Feb. 6; Sp. p. 748; Gaz. vol. 175; p. 110.
Ice-cutting apparatus. W. T. Weaver and G. L. Beard. No. 1,030,624; June 25; Sp. p. 5763; Gaz. vol. 179; p. 990.
Ice-cutting machine. J. B. Bowcock. No. 1,013,733; Jan. 2; Sp. p. 1418; Gaz. vol. 174; p. 224.
Ice-cutting machine. S. Guthrie, Jr. No. 1,014,593; Jan. 9; Sp. p. 3270; Gaz. vol. 174; p. 545.
Ice-cutting machine. J. S. Kohr. No. 1,029,133; June 11; Sp. p. 2312; Gaz. vol. 179; p. 394.
Ice-cutting machine. J. H. Fisch and J. C. Babst. No. 1,039,718; Oct. 1; Gaz. vol. 183; p. 16.
Ice-cutting machines, Belt-tension regulator for. C. Hartman. No. 1,040,198; Oct. 1; Gaz. vol. 183; p. 176.
Ice cutting or shaving device. E. H. Sheldon. No. 1,013,823; Jan. 2; Sp. p. 1599; Gaz. vol. 174; p. 255.
Ice-cutting-up machine. E. E. Nolan and W. H. Pierce. No. 1,024,594; Apr. 30; Sp. p. 6159; Gaz. vol. 177; p. 1088.
Ice-edger. O. W. Robins. No. 1,042,481; Oct. 29; Gaz. vol. 183; p. 1078.
Ice, Forming. M. C. J. Bannister. No. 1,044,972; Nov. 19; Gaz. vol. 184; p. 731.
Ice-harvesting machine. S. M. Campbell. No. 1,028,992; June 11; Sp. p. 2011; Gaz. vol. 179; p. 346.
Ice-machine. C. S. Campbell. No. 1,014,449; Jan. 9; Sp. p. 3015; Gaz. vol. 174; p. 499.
Ice-machine. D. L. Holden. No. 1,020,759; Mar. 19; Sp. p. 3736; Gaz. vol. 176; p. 655.
Ice-making apparatus. E. E. Gainer. No. 1,014,140; Jan. 9; Sp. p. 2339; Gaz. vol. 174; p. 391.
Ice-making apparatus. W. Griesser. No. 1,018,705; Feb. 27; Sp. p. 5504; Gaz. vol. 175; p. 953.
Ice-making apparatus. W. E. Armistead. No. 1,027,304; May 21; Sp. p. 4900; Gaz. vol. 178; p. 824.
Ice-making apparatus. S. R. Bell. No. 1,049,197; Dec. 31; Gaz. vol. 185; p. 1310.
Ice-making apparatus, Artificial-. G. H. Fisher and P. J. O'Neil. No. 1,020,195; Mar. 12; Sp. p. 2541; Gaz. vol. 176; p. 431.
Ice-making device. M. Walint. No. 1,044,310; Nov. 12; Gaz. vol. 184; p. 472.
Ice-making machines, Combined condensing and evaporating apparatus for. C. Senssenbrenner. No. 1,017,695; Feb. 20; Sp. p. 3186; Gaz. vol. 175; p. 573.
Ice manufacturing and harvesting apparatus. R. J. Berryman. No. 1,046,252; Dec. 3; Gaz. vol. 185; p. 158.
Ice-manufacturing apparatus. W. E. Armistead. No. 1,027,305; May 21; Sp. p. 4903; Gaz. vol. 178; p. 825.
Ice-manufacturing apparatus. R. J. Berryman. No. 1,039,013; Sept. 17; Gaz. vol. 182; p. 690.
Ice-manufacturing apparatus. A. B. Mattingly. No. 1,041,317; Oct. 15; Gaz. vol. 183; p. 623.
Ice-motor. A. Grub. No. 1,016,687; Feb. 6; Sp. p. 1033; Gaz. vol. 175; p. 158.
Ice-sawing machine. J. P. Kopetka. No. 1,021,196; Mar. 26; Sp. p. 4648; Gaz. vol. 176; p. 852.
Ice-sawing machine. C. Y. Akes. No. 1,041,717; Oct. 22; Gaz. vol. 183; p. 789.
Ice-sawing machine. C. H. Schuhmacher. No. 1,047,308; Dec. 17; Gaz. vol. 185; p. 596.
Ice-scraper. G. B. Miller. No. 1,037,956; Sept. 10; Gaz. vol. 182; p. 296.
Ice-shaving machines, Feeding mechanism for. H. Smith. No. 1,048,599; Dec. 31; Gaz. vol. 185; p. 1104.
Ice-tamper. W. C. Gagnon. No. 1,048,063; Dec. 24; Gaz. vol. 185; p. 883.
Ice-track. W. J. Shedd. No. 1,037,064; Aug. 27; Gaz. vol. 181; p. 1005.
Identification device. G. S. Guy. No. 1,034,107; July 30; Gaz. vol. 180; p. 1263.
Igniter. M. Brandstätter. No. 1,017,505; Feb. 13; Sp. p. 2812; Gaz. vol. 175; p. 475.
Igniter. H. L. Allen. No. 1,024,964; Apr. 30; Sp. p. 6928; Gaz. vol. 177; p. 1218.
Igniter. S. Herlinger. No. 1,033,801; July 30; Gaz. vol. 180; p. 1154.
Igniter. H. Buttner. No. 1,038,283; Sept. 10; Gaz. vol. 182; p. 404.
Igniter. F. W. Goerdes. No. 1,044,165; Nov. 12; Gaz. vol. 184; p. 422.
Igniter. F. Thomas. No. 1,046,898; Dec. 10; Gaz. vol. 185; p. 421.
Igniter, Automatic. D. Heyman. No. 1,028,462; June 4; Sp. p. 880; Gaz. vol. 179; p. 132.
Igniter, Electric. F. H. Royce. No. 1,030,432; June 25; Sp. p. 5174; Gaz. vol. 179; p. 920.
Igniter, Electric. J. G. Cook. No. 1,034,691; Aug. 6; Gaz. vol. 181; p. 96.
Igniter, Frictional pocket-. F. Deimel. No. 1,018,100; Feb. 20; Sp. p. 4164; Gaz. vol. 175; p. 716.
Igniter, Governor-controlled. J. Fleischmann and P. Wolf. No. 1,037,462; Sept. 3; Gaz. vol. 182; p. 98.
Igniter or the like. W. C. Westaway. No. 1,028,514; June 4; Sp. p. 992; Gaz. vol. 179; p. 150.
Igniter, Sparking. L. H. Wattles. No. 1,024,710; Apr. 30; Sp. p. 6404; Gaz. vol. 177; p. 1128.

Alphabetical list of inventions—Continued.

Igniter-terminal. R. M. G. Phillips. No. 1,036,143; Aug. 20; Gaz. vol. 181; p. 660.
Igniting device. J. B. Gould. No. 1,021,363; Mar. 26; Sp. p. 4993; Gaz. vol. 176; p. 911.
Igniting device. W. S. Andrews and T. Van Aller. No. 1,024,713; Apr. 30; Sp. p. 6413; Gaz. vol. 177; p. 1129.
Igniting device. A. Ehlert. No. 1,027,600; May 28; Sp. p. 5505; Gaz. vol. 178; p. 962.
Igniting device. L. A. Voell. No. 1,029,158; June 11; Sp. p. 2361; Gaz. vol. 179; p. 402.
Igniting device. E. G. Carlson. No. 1,040,143; Oct. 1; Gaz. vol. 183; p. 159.
Igniting device. A. Philippsen. No. 1,044,815; Nov. 19; Gaz. vol. 184; p. 678.
Igniting device, Electrically-controlled. W. Bale. No. 1,034,951; Aug. 6; Gaz. vol. 181; p. 184.
Igniting device, Pocket. R. E. Ramsdell. No. 1,027,900; May 28; Sp. p. 6198; Gaz. vol. 178; p. 1063.
Igniting system, Unispark. E. S. Lincoln. No. 1,039,973; Oct. 1; Gaz. vol. 183; p. 101.
Ignition and working system, Combined. E. S. Lincoln. No. 1,039,974; Oct. 1; Gaz. vol. 183; p. 102.
Ignition apparatus. W. Baltrusch. No. 1,029,256; June 11; Sp. p. 2571; Gaz. vol. 179; p. 436.
Ignition apparatus, Current interrupter and distributer for electrical. G. Honold. No. 1,022,241; Apr. 2; Sp. p. 1040; Gaz. vol. 177; p. 166.
Ignition apparatus, Portable faultfinding device for electrical. S. P. Hedges. No. 1,024,935; Apr. 30; Sp. p. 6874; Gaz. vol. 177; p. 1207.
Ignition device. J. F. Cavanagh. No. 1,016,399; Feb. 6; Sp. p. 367; Gaz. vol. 175; p. 58.
Ignition device. D. Holden. No. 1,020,503; Mar. 19; Sp. p. 3164; Gaz. vol. 176; p. 569.
Ignition device, Electric. J. J. Lombardi. No. 1,030,413; June 25; Sp. p. 5124; Gaz. vol. 179; p. 914.
Ignition device, Electrical. H. J. Podlešák. No. 1,034,645; Aug. 6; Gaz. vol. 181; p. 80.
Ignition-machines, Interrupter for. O. Heins. No. 1,048,832; Dec. 31; Gaz. vol. 185; p. 1186.
Ignition system. J. E. Seeley. No. 1,015,089; Jan. 16; Sp. p. 4439; Gaz. vol. 174; p. 747.
Ignition system. C. F. Kettering. No. 1,037,492; Sept. 3; Gaz. vol. 182; p. 108.
Ignition system. C. F. Kettering. No. 1,040,349; Oct. 8; Gaz. vol. 183; p. 257.
Ignition system. S. L. Lebby. No. 1,044,399; Nov. 12; Gaz. vol. 184; p. 503.
Ignition system. E. S. Lincoln. No. 1,046,614; Dec. 10; Gaz. vol. 185; p. 323.
Ignition system. F. R. Dominguez. No. 1,048,302; Dec. 24; Gaz. vol. 185; p. 964.
Ignition system, Combined. R. H. Cunningham. No. 1,026,565; May 14; Sp. p. 3229; Gaz. vol. 178; p. 534.
Ignition system, Dual. R. H. Cunningham. No. 1,022,828; Apr. 9; Sp. p. 2306; Gaz. vol. 177; p. 394.
Ignition system, Dual. R. H. Cunningham. No. 1,023,552; Apr. 16; Sp. p. 3816; Gaz. vol. 177; p. 674.
Ignition system, Dual. C. Cuno. No. 1,026,077; May 14; Sp. p. 2190; Gaz. vol. 178; p. 369.
Ignition system, Single-spark. E. S. Lincoln. No. 1,017,300; Feb. 13; Sp. p. 2370; Gaz. vol. 175; p. 404.
Ignition-system switch. G. H. Boynton. No. 1,017,948; Feb. 20; Sp. p. 3817; Gaz. vol. 175; p. 662.
Ignition systems, Breaker-box for. W. J. Hart. No. 1,025,566; May 7; Sp. p. 1037; Gaz. vol. 178; p. 160.
Ignition systems, Double or twin interrupter for. J. M. Smith. No. 1,018,137; Feb. 20; Sp. p. 4239; Gaz. vol. 175; p. 728.
Ignition systems, Mechanical interrupter for electrical. G. Honold. No. 1,023,936; Apr. 23; Sp. p. 4654; Gaz. vol. 177; p. 827.
Ignition systems, Switch for jump-spark. E. D. Bright. No. 1,028,536; June 4; Sp. p. 1030; Gaz. vol. 179; p. 157.
Ignition systems, Timing device for. C. T. Mason. No. 1,047,963; Dec. 24; Gaz. vol. 185; p. 851.
Ignition-timer. W. B. S. Whaley and E. P. Robinson. No. 1,039,867; Oct. 1; Gaz. vol. 183; p. 67.
Ignition timer and detector. T. C. Forbes. No. 1,019,886; Mar. 12; Sp. p. 1879; Gaz. vol. 176; p. 328.
Ignition-tube. A. Butsch. No. 1,025,050; Apr. 30; Sp. p. 7088; Gaz. vol. 177; p. 1246.
Illuminant and producing the same. J. H. James. No. 1,028,357; June 4; Sp. p. 648; Gaz. vol. 179; p. 97.
Illuminating appliance. W. A. Dorey. No. 1,042,412; Oct. 29; Gaz. vol. 183; p. 1052.
Illuminating device. W. H. Spencer. No. 1,034,041; July 30; Gaz. vol. 180; p. 1241.
Illuminating device. J. A. Carlstedt. No. 1,034,077; July 30; Gaz. vol. 180; p. 1253.
Illuminating device. W. H. Pease. No. 1,036,000; Aug. 20; Gaz. vol. 181; p. 607.
Illuminating device. H. S. Strong. No. 1,043,981; Nov. 12; Gaz. vol. 184; p. 360.
Illuminating-indicator. A. Junghans. No. 1,036,256; Aug. 20; Gaz. vol. 181; p. 699.
Illuminator. T. C. Heisey and A. J. Sanford. No. 1,028,721; June 4; Sp. p. 1402; Gaz. vol. 179; p. 218.
Illusion apparatus, Spectacular. W. J. Burke. No. 1,037,430; Sept. 3; Gaz. vol. 182; p. 85.
Images, Mechanism for electrically transmitting and reproducing. G. E. Hoglund. No. 1,030,240; June 18; Sp. p. 4719; Gaz. vol. 179; p. 812.
Images to a distance, System of transmitting. A. C. and L. S. Andersen. No. 1,040,110; Oct. 1; Gaz. vol. 183; p. 147.
Implement-clamp. S. C. Lawlor. No. 1,025,280; May 7; Sp. p. 376; Gaz. vol. 178; p. 61.
Implement, Combination pocket. J. E. Cooper. No. 1,039,260; Sept. 24; Gaz. vol. 182; p. 793.
Implement-handle. W. J. Dunham. No. 1,038,732; Sept. 17; Gaz. vol. 182; p. 594.
Implement-holder. S. C. Lawlor. No. 1,015,625; Jan. 23; Sp. p. 5588; Gaz. vol. 174; p. 957.
Implement-holder. R. B. Taft. No. 1,040,053; Oct. 1; Gaz. vol. 183; p. 127.
Impregnating substances. A. R. Bullock. No. 1,035,777; Aug. 13; Gaz. vol. 181; p. 495.
Impression apparatus. L. Huffman. No. 1,018,617; Feb. 27; Sp. p. 5323; Gaz. vol. 175; p. 924.
Impression-holder. W. F. Wilson. No. 1,018,466; Feb. 27; Sp. p. 4936; Gaz. vol. 175; p. 872.
Impressions or inscriptions, Machine for simultaneously producing a plurality of original. F. E. Crompton. No. 1,045,678; Nov. 26; Gaz. vol. 184; p. 1010.
Imprinting envelops, &c., Machine for. U. C. Davis. No. 1,027,824; May 28; Sp. p. 5971; Gaz. vol. 178; p. 1037.
Impulse-transmitter. E. Neuhold. No. 1,021,259; Mar. 26; Sp. p. 4787; Gaz. vol. 176; p. 874.
Impulse-transmitter. J. W. Lattig. No. 1,030,412; June 25; Sp. p. 5120; Gaz. vol. 179; p. 913.
Impulse-transmitter. C. R. Austin. No. 1,036,056; Aug. 20; Gaz. vol. 181; p. 627.
Impulse-transmitter. E. E. Clement. No. 1,037,172; Aug. 27; Gaz. vol. 181; p. 1040.
Impulses, Determining frequency of periodic. R. A. Fessenden. No. 1,022,584; Apr. 9; Sp. p. 1752; Gaz. vol. 177; p. 309.
Incandescence bodies, Manufacturing. H. Kužel. No. 1,037,268; Sept. 3; Gaz. vol. 182; p. 31.
Incandescent light, Increasing the intensity of. R. P. Pictet. No. 1,026,121; May 14; Sp. p. 2283; Gaz. vol. 178; p. 385.
Incandescent lights, Diffusing-container for. P. C. Hewitt. No. 1,036,527; Aug. 20; Gaz. vol. 181; p. 793.
Incandescent mantle. J. B. Hipwell. No. 1,040,254; Oct. 1; Gaz. vol. 183; p. 195.
Incandescent mantle. J. B. Hipwell. No. 1,047,221; Dec. 17; Gaz. vol. 185; p. 563.
Incandescent-mantle box. A. A. Brown. No. 1,041,733; Oct. 22; Gaz. vol. 183; p. 795.
Incandescent-mantle burner. A. P. Storrs. No. 1,015,851; Jan. 30; Sp. p. 6079; Gaz. vol. 174; p. 1059.
Incandescent-mantle holder and guard. R. E. Bruckner and C. A. McCune. No. 1,021,967; Apr. 2; Sp. p. 467; Gaz. vol. 177; p. 74.
Incandescent mantle, Inverted. C. K. Harding. No. 1,022,133; Apr. 2; Sp. p. 811; Gaz. vol. 177; p. 128.
Incandescent-mantle protector. M. Bendix. No. 1,016,391; Feb. 6; Sp. p. 344; Gaz. vol. 175; p. 55.
Incandescent-mantle support. R. Roder. No. 1,028,388; June 4; Sp. p. 702; Gaz. vol. 179; p. 107.
Incandescent mantles, Manufacture of. W. Bruno. No. 1,035,527; Aug. 13; Gaz. vol. 181; p. 412.
Incandescing element. D. J. Monosmith. No. 1,030,787; June 25; Sp. p. 6197; Gaz. vol. 179; p. 1048.
Incinerating-furnace. P. F. Dundon. No. 1,044,868; Nov. 19; Gaz. vol. 184; p. 696.
Incubator. P. H. Herndon. No. 1,018,192; Feb. 20; Sp. p. 4358; Gaz. vol. 175; p. 748.
Incubator. P. H. Herndon. No. 1,018,357; Feb. 20; Sp. p. 4668; Gaz. vol. 175; p. 803.
Incubator. W. E. Smith. No. 1,020,720; Mar. 19; Sp. p. 3657; Gaz. vol. 176; p. 643.
Incubator. L. C. Byce. No. 1,022,824; Apr. 9; Sp. p. 2297; Gaz. vol. 177; p. 393.
Incubator. E. S. Moore. No. 1,033,031; July 16; Gaz. vol. 180; p. 833.
Incubator. C. J. Dittbrenner. No. 1,033,555; July 23; Gaz. vol. 180; p. 1048.
Incubator. H. W. Lubmann. No. 1,035,885; Aug. 20; Gaz. vol. 181; p. 570.
Incubator. J. G. Congreve. No. 1,036,456; Aug. 20; Gaz. vol. 181; p. 768.
Incubator. T. G. Mellinger. No. 1,037,180; Aug. 27; Gaz. vol. 181; p. 1043.
Incubator. T. N. Thomson. No. 1,039,844; Oct. 1; Gaz. vol. 183; p. 59.
Incubator. C. G. Lehmann. No. 1,046,204; Dec. 3; Gaz. vol. 185; p. 139.
Incubator. C. E. Bonine. No. 1,049,042; Dec. 31; Gaz. vol. 185; p. 1259.
Incubator-alarm attachment. J. C. Munson. No. 1,046,630; Dec. 10; Gaz. vol. 185; p. 329.
Incubator and brooder. E. Ruegg. No. 1,031,150; July 2; Gaz. vol. 180; p. 107.
Incubator and brooder. L. J. Isenhour. No. 1,048,313; Dec. 24; Gaz. vol. 185; p. 968.
Incubator and brooder alarm. J. Trapp. No. 1,037,084; Aug. 27; Gaz. vol. 181; p. 1011.

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Incubator and brooder, Combined. C. W. Zimmer. No. 1,025,181; May 7; Sp. p. 157; Gaz. vol. 178; p. 26.
Incubator and brooder, Heaterless. E. W. Philo. No. 1,038,431; Sept. 10; Gaz. vol. 182; p. 455.
Incubator audible signal or annunciator. H. R. Lightcap. No. 1,034,261; July 30; Gaz. vol. 180; p. 1317.
Incubator, Egg-hatching. J. D. Boyd. No. 1,015,417; Jan. 23; Sp. p. 5146; Gaz. vol. 174; p. 884.
Incubator egg-tray. T. Hines. No. 1,035,791; Aug. 13; Gaz. vol. 181; p. 499.
Incubator heat-regulator. A. A. Howard and A. H. Lobsitz. No. 1,038,139; Sept. 10; Gaz. vol. 182; p. 355.
Incubator-heater. A. W. Tibbals and C. D. Young. No. 1,015,361; Jan. 23; Sp. p. 5015; Gaz. vol. 174; p. 867.
Incubator heater-tank. J. A. Perrin. No. 1,041,508; Oct. 15; Gaz. vol. 183; p. 685.
Incubator-heating apparatus. L. N. Porter. No. 1,047,444; Dec. 17; Gaz. vol. 185; p. 641.
Incubator-heating system. C. S. Bryant. No. 1,015,290; Jan. 23; Sp. p. 4851; Gaz. vol. 174; p. 841.
Incubator-heating system. G. H. Lee. No. 1,040,701; Oct. 8; Gaz. vol. 183; p. 384.
Incubator-heating system. C. E. Adair. No. 1,042,635; Oct. 29; Gaz. vol. 183; p. 1132.
Incubator regulator, Chicken-. G. H. Lee. No. 1,039,550; Sept. 24; Gaz. vol. 182; p. 894.
Incubator, Wall-supported. E. F. Carpenter. No. 1,016,982; Feb. 13; Sp. p. 1679; Gaz. vol. 175; p. 293.
Incubators, Moisture-regulator for egg-. A. Sleeper. No. 1,043,159; Nov. 5; Gaz. vol. 184; p. 40.
Indenting and stitch-separating machine. L. A. Casgrain. No. 1,047,382; Dec. 17; Gaz. vol. 185; p. 621.
Index. L. E. Schumacher. No. 1,041,178; Oct. 15; Gaz. vol. 183; p. 575.
Index, Adjustable. J. H. Rand. No. 1,025,997; May 14; Sp. p. 1980; Gaz. vol. 178; p. 341.
Index, Adjustable card-. J. H. Rand. No. 1,016,230; Jan. 30; Sp. p. 6849; Gaz. vol. 174; p. 1190.
Index, Book and like. J. D. Ward. No. 1,015,658; Jan. 23; Sp. p. 5663; Gaz. vol. 174; p. 968.
Index, Card-. L. C. Reynolds. No. 1,047,840; Dec. 17; Gaz. vol. 185; p. 782.
Index, Consolidated tariff-. C. B. Guthrie. No. 1,041,623; Oct. 15; Gaz. vol. 183; p. 720.
Index device. G. E. Chatillon. No. 1,028,540; June 4; Sp. p. 1038; Gaz. vol. 179; p. 158.
Index device for step and repeat and other machines. L. J. R. Holst. No. 1,048,968; Dec. 31; Gaz. vol. 185; p. 1232.
Index for loose-leaf records and the like. S. B. Kirtley. No. 1,023,941; Apr. 23; Sp. p. 4664; Gaz. vol. 177; p. 829.
Index-frame, Hinged. J. H. Rand. No. 1,034,647; Aug. 6; Gaz. vol. 181; p. 81.
Index or file. I. Fisher. No. 1,048,056; Dec. 24; Gaz. vol. 185; p. 881.
Index or file. I. Fisher. No. 1,048,057; Dec. 24; Gaz. vol. 185; p. 882.
Index or file. I. Fisher. No. 1,048,058; Dec. 24; Gaz. vol. 185; p. 882.
Index, record, and filing card. M. Hermann. No. 1,043,049; Oct. 29; Gaz. vol. 183; p. 1275.
Index system. E. A. Dunn. No. 1,017,089; Feb. 13; Sp. p. 1928; Gaz. vol. 175; p. 331.
Index system, Card-. C. P. Potter. No. 1,032,082; July 9; Gaz. vol. 180; p. 467.
Index-tab. V. Munger and C. S. Carter. No. 1,023,219; Apr. 16; Sp. p. 3165; Gaz. vol. 177; p. 567.
Indicating and measuring device, Potential. E. O. Schweitzer. No. 1,043,150; Nov. 5; Gaz. vol. 184; p. 36.
Indicating and protecting device. D. R. Knapp. No. 1,042,562; Oct. 29; Gaz. vol. 183; p. 1105.
Indicating and protective device. D. R. Knapp. No. 1,023,943; Apr. 23; Sp. p. 4667; Gaz. vol. 177; p. 829.
Indicating device. A. McNab. No. 1,024,452; Apr. 23; Sp. p. 5761; Gaz. vol. 177; p. 1002.
Indicating mechanism. A. Frisch. No. 1,041,061; Oct. 15; Gaz. vol. 183; p. 535.
Indicator: *See* Angle-indicator; Automobile-indicator; Battery-charge indicator; Bottle-indicator; Car-indicator; Car street-indicator; Casualty-indicator; Electric-current indicator; Elevator-indicator; Engine-indicator; Fare-indicator; Flow-indicator; Fluid-circulating indicator; Fuse-indicator; Illuminating-indicator; Liquid-container indicator; Liquid-level indicator; Lock-indicator; Music-indicator; Number-indicator; Office-indicator; Oil-indicator; Poison-indicator; Pressure-indicator; Route-indicator; Signal-indicator; Spark-indicator; Speed-indicator; Speed or distance indicator; Spiral indicator; Station-indicator; Storage-vessel indicator; Street-indicator; Street and station indicator; Street or station indicator; Surface-indicator; Synchronical indicator; Test-indicator; Time-indicator; Timepiece winding-indicator; Tone-volume indicator; Train-indicator; Valve-indicator; Vehicle direction-indicator; Vehicle rear indicator.
Indicator. R. F. Codero. No. 1,015,139; Jan. 16; Sp. p. 4535; Gaz. vol. 174; p. 765.
Indicator. E. P. Rodgers. No. 1,017,806; Feb. 20; Sp. p. 3484; Gaz. vol. 175; p. 613.
Indicator. S. T. Applegate. No. 1,024,051; Apr. 23; Sp. p. 4892; Gaz. vol. 177; p. 866.
Indicator. A. D. Branham. No. 1,035,413; Aug. 13; Gaz. vol. 181; p. 373.
Indicator. L. A. Hawkins. No. 1,038,365; Sept. 10; Gaz. vol. 182; p. 431.
Indicator. N. C. Locke. No. 1,038,770; Sept. 17; Gaz. vol. 182; p. 608.
Indicator. J. W. Ledoux. No. 1,041,107; Oct. 15; Gaz. vol. 183; p. 551.
Indicator. A. F. Dixon. No. 1,045,686; Nov. 26; Gaz. vol. 184; p. 1012.
Indicator. G. Brown. No. 1,048,032; Dec. 24; Gaz. vol. 185; p. 873.
Indicator. L. M. Coventry. No. 1,048,445; Dec. 24; Gaz. vol. 185; p. 1012.
Indicator-actuating mechanism. O. E. Kellum. No. 1,022,742; Apr. 9; Sp. p. 2134; Gaz. vol. 177; p. 366.
Indicator and stop device. C. A. Brink. No. 1,021,820; Apr. 2; Sp. p. 151; Gaz. vol. 177; p. 26.
Indicator-gage. J. E. Emerson. No. 1,016,616; Feb. 6; Sp. p. 889; Gaz. vol. 175; p. 133.
Indicator-lock. F. S. Owen. No. 1,037,042; Aug. 27; Gaz. vol. 181; p. 997.
Indicator-tab. J. H. Rand. No. 1,045,182; Nov. 26; Gaz. vol. 184; p. 832.
Indicators, Electrical recording apparatus for. J. L. Zander. No. 1,031,408; July 2; Gaz. vol. 180; p. 196.
Indigo coloring-matters, Reducing. W. Gaus. No. 1,027,836; May 28; Sp. p. 6000; Gaz. vol. 178; p. 1041.
Indigo compounds and making such bodies, Halogenized. A. Holt. No. 1,042,679; Oct. 29; Gaz. vol. 183; p. 1148.
Induction-coil. J. F. Cavanagh. No. 1,034,583; Aug. 6; Gaz. vol. 181; p. 60.
Induction-furnace. R. Fleming. No. 1,020,688; Mar. 19; Sp. p. 3581; Gaz. vol. 176; p. 630.
Induction-furnace. C. P. Steinmetz. No. 1,042,986; Oct. 29; Gaz. vol. 183; p. 1252.
Induction-motor. W. E. Reed. No. 1,013,218; Jan. 2; Sp. p. 280; Gaz. vol. 174; p. 45.
Induction-motor. K. Kuhlmann and H. Müller. No. 1,019,491; Mar. 5; Sp. p. 1126; Gaz. vol. 176; p. 165.
Induction-motor. B. McCollum. No. 1,038,775; Sept. 17; Gaz. vol. 182; p. 610.
Induction-motor, Alternating-current. B. McCollum. No. 1,035,373; Aug. 13; Gaz. vol. 181; p. 360.
Induction-motor, Reversible. F. R. Kunkel. No. 1,024,635; Apr. 30; Sp. p. 6261; Gaz. vol. 177; p. 1102.
Induction synchronous motor. C. H. Kicklighter. No. 1,027,422; May 28; Sp. p. 5148; Gaz. vol. 178; p. 903.
Inductor-alternator. E. Podlesak. No. 1,024,418; Apr. 23; Sp. p. 5687; Gaz. vol. 177; p. 991.
Infant's posing-chair. L. Hallen. No. 1,025,953; May 7; Sp. p. 1887; Gaz. vol. 178; p. 290.
Inflammable liquids, Device for safely storing. C. Martini. No. 1,025,758; May 7; Sp. p. 1436; Gaz. vol. 178; p. 225.
Information and advertising device, Combined. W. H. Coneby. No. 1,038,298; Sept. 10; Gaz. vol. 182; p. 409.
Ingot-mold. H. D. Hibbard. No. 1,018,906; Feb. 27; Sp. p. 5932; Gaz. vol. 175; p. 1022.
Ingot-mold. E. Gathmann. No. 1,019,244; Mar. 5; Sp. p. 524; Gaz. vol. 176; p. 83.
Ingot-mold. J. Power. No. 1,036,333; Aug. 20; Gaz. vol. 181; p. 726.
Ingot-mold. W. D. Bradford. No. 1,048,030; Dec. 24; Gaz. vol. 185; p. 873.
Ingots, Method of and apparatus for producing compound metal. F. E. Canda. No. 1,013,860; Jan. 9; Sp. p. 1716; Gaz. vol. 174; p. 297.
Ingots, Method of and means for stripping. E. Gathmann. No. 1,039,725; Oct. 1; Gaz. vol. 183; p. 19.
Ingots or billets, Mechanism for piercing metallic. M. U. Wikström. No. 1,022,524; Apr. 9; Sp. p. 1626; Gaz. vol. 177; p. 289.
Ingots, Solidifying. J. E. York. No. 1,035,933; Aug. 20; Gaz. vol. 181; p. 586.
Ingots, Treating metal. G. H. Benjamin. No. 1,038,271; Sept. 10; Gaz. vol. 182; p. 400.
Inhaler. O. E. Eklund, F. G. and W. M. Folberth. No. 1,035,954; Aug. 20; Gaz. vol. 181; p. 593.
Inhaler. G. W. White. No. 1,036,759; Aug. 27; Gaz. vol. 181; p. 902.
Inhaler. W. Gottlieb. No. 1,043,689; Nov. 5; Gaz. vol. 184; p. 227.
Inhaler. G. A. Evans. No. 1,044,367; Nov. 12; Gaz. vol. 184; p. 492.
Inhaler. T. H. Butcher. No. 1,048,491; Dec. 31; Gaz. vol. 185; p 1067.
Inhaler and respirator. E. K. Hill. No. 1,049,088; Dec. 31; Gaz vol. 185; p. 1274.
Inhaler attachment, Air-purifying. S. Banta and B. L. Stowe. No. 1,013,722; Jan. 2; Sp. p. 1391; Gaz. vol. 174; p. 218.
Inhaler, Medical. J. Leach. No. 1,028,890; June 11; Sp. p. 1780; Gaz. vol. 179; p. 311.
Injector. C. Pottel. No. 1,016,772; Feb. 6; Sp. p. 1216; Gaz. vol. 175; p. 187.
Injector. E. Koerting. No. 1,026,399; May 14; Sp. p. 2889; Gaz. vol. 178; p. 479.

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Injector. W. H. Locke. No. 1,032,222; July 9; Gaz. vol. 180; p. 515.
Injector. J. Baschkin. No. 1,038,826; Sept. 17; Gaz. vol. 182; p. 628.
Injector. P. Dietrich and W. Millies. No. 1,042,095; Oct. 22; Gaz. vol. 183; p. 920.
Injector for boilers, Automatic. W. J. Lamar. No. 1,023,110; Apr. 9; Sp. p. 2886; Gaz. vol. 177; p. 491.
Injector, Steam-. R. G. Brooke. No. 1,030,714; June 25; Sp. p. 5991; Gaz. vol. 179; p. 1021.
Ink. W. G. Fuerth. No. 1,013,544; Jan. 2; Sp. p. 989; Gaz. vol. 174; p. 159.
Ink. W. D. Patten. No. 1,035,229; Aug. 13; Gaz. vol. 181; p. 307.
Ink-bottle stand and holder. L. Asheim. No. 1,026,780; May 21; Sp. p. 3724; Gaz. vol. 178; p. 645.
Ink, Conductive. H. E. Goldberg. No. 1,034,103; July 30; Gaz. vol. 180; p. 1262.
Ink, Conductive. H. E. Goldberg. No. 1,034,104; July 30; Gaz. vol. 180; p. 1262.
Ink-distributer. A. E. Berreyesa. No. 1,016,123; Jan. 30; Sp. p. 6650; Gaz. vol. 174; p. 1156.
Ink-distributing roll. J. S. McKinley. No. 1,022,563; Apr. 9; Sp. p. 1709; Gaz. vol. 177; p. 301.
Ink-fountain. J. F. Mahlstedt. No. 1,018,434; Feb. 27; Sp. p. 4870; Gaz. vol. 175; p. 862.
Ink from cloths, Apparatus for the recovery of oily. M. S. Hopkins. No. 1,021,738; Mar. 26; Sp. p. 5777; Gaz. vol. 176; p. 1037.
Ink from cloths, Recovery of oily. M. S. Hopkins. No. 1,021,737; Mar. 26; Sp. p. 5775; Gaz. vol. 176; p. 1037.
Ink-well. D. Hardie. No. 1,029,752; June 18; Sp. p. 3659; Gaz. vol. 179; p. 645.
Ink-well. J. B. Randolph. No. 1,040,754; Oct. 8; Gaz. vol. 183; p. 400.
Ink-well. H. Risbon. No. 1,048,344; Dec. 24; Gaz. vol. 185; p. 978.
Ink-well filler. L. E. Eickelberg. No. 1,043,218; Nov. 5; Gaz. vol. 184; p. 62.
Ink-well holder. C. Kricke. No. 1,042,353; Oct. 22; Gaz. vol. 183; p. 1004.
Ink-well support. J. J. Verwys and H. Noppe. No. 1,034,541; Aug. 6; Gaz. vol. 181; p. 47.
Inking mechanism. N. E. Springsteen. No. 1,030,026; June 18; Sp. p. 4260; Gaz. vol. 179; p. 738.
Inking mechanism. L. E. Morrison. No. 1,040,733; Oct. 8; Gaz. vol. 183; p. 393.
Inking-pad. E. Steiger. No. 1,044,702; Nov. 19; Gaz. vol. 184; p. 639.
Inking-roller. H. C. Osborn. No. 1,030,917; July 2; Gaz. vol. 180; p. 22.
Inking-rollers, Cooling apparatus for. E. R. Melton. No. 1,048,193; Dec. 24; Gaz. vol. 185; p. 928.
Inking-rollers, Driving mechanism for. G. P. Fenner. No. 1,015,012; Jan. 16; Sp. p. 4292; Gaz. vol. 174; p. 721.
Inkstand. I. Rosenfeld. No. 1,016,365; Feb. 6; Sp. p. 280; Gaz. vol. 175; p. 44.
Inkstand. F. Hejnal. No. 1,018,189; Feb. 20; Sp. p. 4355; Gaz. vol. 175; p. 747.
Inkstand. F. M. Ashley. No. 1,040,605; Oct. 8; Gaz. vol. 183; p. 348.
Inkstand. F. M. Ashley. No. 1,043,287; Nov. 5; Gaz. vol. 183; p. 85.
Inkstand. F. M. Ashley. No. 1,043,288; Nov. 5; Gaz. vol. 183; p. 86.
Inkstand. J. I. Morehead. No. 1,047,975; Dec. 24; Gaz. vol. 185; p. 854.
Inkstand construction. E. Davis. No. 1,046,150; Dec. 3; Gaz. vol. 185; p. 121.
Inlaying metal in masses such as celluloid, ebonite, and the like. J. Kaufmann. No. 1,024,203; Apr. 23; Sp. p. 5252; Gaz. vol. 177; p. 920.
Innersole. F. L. Corson. No. 1,034,208; July 30; Gaz. vol. 180; p. 1297.
Innersole for welted shoes. H. F. Crawford. No. 1,029,278; June 11; Sp. p. 2615; Gaz. vol. 179; p. 444.
Innersole, Shoe cushion-. F. O. Brown. No. 1,034,763; Aug. 6; Gaz. vol. 181; p. 122.
Inseam-trimmer. W. B. Keighley. No. 1,031,675; July 2; Gaz. vol. 180; p. 287.
Inseam-trimmers, Feeding device for. W. B. Keighley. No. 1,020,910; Mar. 19; Sp. p. 4039; Gaz. vol. 176; p. 705.
Inseam-trimming machine and welt-pounding device, Combined band-knife. W. B. Keighley. No. 1,032,219; July 9; Gaz. vol. 180; p. 514.
Insect and animal exterminator. J. J. Hobbs. No. 1,042,437; Oct. 29; Gaz. vol. 183; p. 1062.
Insect-catcher. J. Johnson. No. 1,016,156; Jan. 30; Sp. p. 6710; Gaz. vol. 174; p. 1166.
Insect-catcher. V. Lines. No. 1,043,240; Nov. 5; Gaz. vol. 184; p. 68.
Insect-catching device. F. C. Young. No. 1,033,975; July 30; Gaz. vol. 180; p. 1217.
Insect-destroyer. W. C. Pinson. No. 1,024,698; Apr. 30; Sp. p. 6380; Gaz. vol. 177; p. 1124.
Insect-destroyer. C. V. Hoselton. No. 1,035,012; Aug. 6; Gaz. vol. 181; p. 204.
Insect-destroyer. F. A. Hinsky. No. 1,037,623; Sept. 3; Gaz. vol. 182; p. 149.
Insect-destroyer. E. H. Schwartzburg. No. 1,039,825; Oct. 1; Gaz. vol. 183; p. 52.
Insect-destroying apparatus. D. C. McCroskey. No. 1,022,200; Apr. 2; Sp. p. 953; Gaz. vol. 177; p. 152.
Insect-destroying apparatus, Electrical. F. S. Smith. No. 1,016,449; Feb. 6; Sp. p. 485; Gaz. vol. 175; p. 74.
Insect-destroying apparatus, Electrical. F. S. Smith. No. 1,016,450; Feb. 6; Sp. p. 491; Gaz. vol. 175; p. 75.
Insect-destroying apparatus, Electrical. F. S. Smith. No. 1,016,451; Feb. 6; Sp. p. 494; Gaz. vol. 175; p. 75.
Insect-destroying apparatus, Electrical. F. S. Smith. No. 1,016,452; Feb. 6; Sp. p. 497; Gaz. vol. 175; p. 75.
Insect-destroying apparatus, Electrical. F. S. Smith. No. 1,016,453; Feb. 6; Sp. p. 499; Gaz. vol. 175; p. 76.
Insect-destroying apparatus, Electrical. F. S. Smith. No. 1,016,716; Feb. 6; Sp. p. 1090; Gaz. vol. 175; p. 168.
Insect-destroying device. J. Hampson. No. 1,032,208; July 9; Gaz. vol. 180; p. 510.
Insect-exterminator. H. J. Wagner. No. 1,032,255; July 9; Gaz. vol. 180; p. 527.
Insect-gathering machine. T. J. Wheeler. No. 1,016,861; Feb. 6; Sp. p. 1386; Gaz. vol. 175; p. 214.
Insect-killer. J. Jackson. No. 1,018,244; Feb. 20; Sp. p. 4458; Gaz. vol. 175; p. 765.
Insect-killer. W. W. Parsons and H. Spalding. No. 1,021,883; Apr. 2; Sp. p. 285; Gaz. vol. 177; p. 46.
Insect-proof chest. G. R. Wilson. No. 1,015,984; Jan. 30; Sp. p. 6359; Gaz. vol. 174; p. 1107.
Insect-screen. J. B. Blandy. No. 1,025,674; May 7; Sp. p. 1263; Gaz. vol. 178; p. 195.
Insect-trap. W. L. Thompson. No. 1,013,699; Jan. 2; Sp. p. 1354; Gaz. vol. 174; p. 211.
Insect-trap. G. J. Crandall. No. 1,015,141; Jan. 16; Sp. p. 4538; Gaz. vol. 174; p. 765.
Insect-trap. T. G. Taylor. No. 1,031,827; July 9; Gaz. vol. 180; p. 382.
Insect-trap. J. H. Scroggin. No. 1,036,153; Aug. 20; Gaz. vol. 181; p. 663.
Insect-trap. C. Horstmann. No. 1,042,350; Oct. 22; Gaz. vol. 183; p. 1003.
Insect-trap, Electric suction. F. M. Britton. No. 1,029,972; June 18; Sp. p. 4157; Gaz. vol. 179; p. 720.
Insect trapping and cremating device. L. Troth. No. 1,037,688; Sept. 3; Gaz. vol. 182; p. 172.
Insects, Destroying. F. S. Smith. No. 1,016,790; Feb. 6; Sp. p. 1245; Gaz. vol. 175; p. 192.
Insecticidal-fertilizer cartridge. F. G. Dokkenwadel. No. 1,038,316; Sept. 10; Gaz. vol. 182; p. 415.
Insecticide. W. Newell. No. 1,026,361; May 14; Sp. p. 2821; Gaz. vol. 178; p. 467.
Insecticide composition. A. S. Halland. No. 1,044,452; Nov. 12; Gaz. vol. 184; p. 520.
Insectifuge. O. R. Loewenthal. No. 1,029,203; June 11; Sp. p. 2460; Gaz. vol. 179; p. 419.
Insert-holding device. A. H. Reid. No. 1,021,069; Mar. 26; Sp. p. 4379; Gaz. vol. 176; p. 813.
Insert-support. R. Grinnell. No. 1,037,242; Sept. 3; Gaz. vol. 182; p. 22.
Insole. G. L. Preble. No. 1,018,132; Feb. 20; Sp. p. 4228; Gaz. vol. 175; p. 727.
Insole. R. Flyte. No. 1,036,821; Aug. 27; Gaz. vol. 181; p. 923.
Insole. V. Weil. No. 1,040,597; Oct. 8; Gaz. vol. 183; p. 344.
Insole and arch-support, Pneumatic. M. Byrne. No. 1,044,015; Nov. 12; Gaz. vol. 184; p. 372.
Insole and lasting tack puller and toe-wire remover. L. G. Freeman. No. 1,019,313; Mar. 5; Sp. p. 692; Gaz. vol. 176; p. 108.
Insole, Composition. O. F. Fogelsong. No. 1,027,412; May 28; Sp. p. 5133; Gaz. vol. 178; p. 900.
Insole for shoes. D. Austin. No. 1,021,441; Mar. 26; Sp. p. 5194; Gaz. vol. 176; p. 939.
Insole, Reinforced. G. L. Rollins. No. 1,026,225; May 14; Sp. p. 2510; Gaz. vol. 178; p. 420.
Insole-smoothing implement for shoes. H. E. Maine. No. 1,036,129; Aug. 20; Gaz. vol. 181; p. 654.
Insole-support. F. Kornder. No. 1,044,891; Nov. 19; Gaz. vol. 184; p. 704.
Insole, Welt-. S. M. Bradley. No. 1,017,077; Feb. 13; Sp. p. 1897; Gaz. vol. 175; p. 327.
Insoles, Making. G. L. Preble. No. 1,022,391; Apr. 2; Sp. p. 1323; Gaz. vol. 177; p. 215.
Insoluble bodies derived from phenol alcohols, Making. L. H. Baekeland. No. 1,038,475; Sept. 10; Gaz. vol. 182; p. 471.
Instep-arch support. W. H. Wood. No. 1,014,687; Jan. 16; Sp. p. 3567; Gaz. vol. 174; p. 610.
Instep-arch support. C. N. Childs. No. 1,036,452; Aug. 20; Gaz. vol. 181; p. 767.
Instruction, Means for imparting. N. Göthberg. No. 1,024,195; Apr. 23; Sp. p. 5232; Gaz. vol. 177; p. 917.
Instrument-case, Antiseptic. E. A. Teets and H. V. Varner. No. 1,016,529; Feb. 6; Sp. p. 686; Gaz. vol. 175; p. 108.
Instrument-heating apparatus. H. Beck. No. 1,046,140; Dec. 3; Gaz. vol. 185; p. 118.
Instrument-holder. C. W. Jones. No. 1,014,649; Jan. 16; Sp. p. 3480; Gaz. vol. 174; p. 597.

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Instrument-holder. R. W. Mills. No. 1,045,583; Nov. 26; Gaz. vol. 184; p. 975.
Insulated platform. G. L. Brooks. No. 1,026,380; May 14; Sp. p. 2858; Gaz. vol. 178; p. 474.
Insulated receptacle, Heat-. R. Hartwig. No. 1,033,771; July 23; Gaz. vol. 180; p. 1116.
Insulated switch-cover. A. A. Tirrill. No. 1,028,639; June 4; Sp. p. 1242; Gaz. vol. 179; p. 191.
Insulated-wire-saturating machine. P. A. Nehring. No. 1,028,827; June 4; Sp. p. 1630; Gaz. vol. 179; p. 254.
Insulating building material, Making. H. Ottmann. No. 1,028,903; June 11; Sp. p. 1816; Gaz. vol. 179; p. 316.
Insulating-bushing. J. E. Camatte. No. 1,032,878; July 16; Gaz. vol. 180; p. 783.
Insulating-cleat. R. D. Hilty. No. 1,042,677; Oct. 29; Gaz. vol. 183; p. 1147.
Insulating-cleat. B. Richards. No. 1,048,736; Dec. 31; Gaz. vol. 185; p. 1152.
Insulating composition and making same. C. P. Steinmetz. No. 1,049,005; Dec. 31; Gaz. vol. 185; p. 1245.
Insulating compound and making the same. E. Hemming. No. 1,025,268; May 7; Sp. p. 349; Gaz. vol. 178; p. 57.
Insulating compounds, Manufacture of heat-. W. D. A. Bost. No. 1,044,126; Nov. 12; Gaz. vol. 184; p. 409.
Insulating device. J. H. Lendi. No. 1,033,912; July 30; Gaz. vol. 180; p. 1194.
Insulating electrical machines, Means for. W. A. Dick. No. 1,046,743; Dec. 10; Gaz. vol. 185; p. 370.
Insulating fabric, Machine for making. G. H. Ellis. No. 1,022,778; Apr. 9; Sp. p. 2206; Gaz. vol. 177; p. 378.
Insulating-joint. C. Wirt. No. 1,040,971; Oct. 8; Gaz. vol. 183; p. 471.
Insulating-joint. L. McCarthy. No. 1,042,019; Oct. 22; Gaz. vol. 183; p. 895.
Insulating material. J. H. White. No. 1,029,652; June 18; Sp. p. 3422; Gaz. vol. 179; p. 609.
Insulating materials, Making. E. Hemming. No. 1,039,940; Oct. 1; Gaz. vol. 183; p. 89.
Insulating-panel. G. B. Legnard and E. Formato. No. 1,028,575; June 4; Sp. p. 1118; Gaz. vol. 179; p. 170.
Insulating rail-joints, Means for. B. Wolhaupter. No. 1,034,180; July 30; Gaz. vol. 180; p. 1288.
Insulating rail-joints, Means for. B. Wolhaupter. No. 1,034,181; July 30; Gaz. vol. 180; p. 1288.
Insulating rail-joints, Means for. B. Wolhaupter. No. 1,034,379; July 30; Gaz. vol. 180; p. 1358.
Insulating rail-joints, Means for. B. G. Braine. No. 1,048,284; Dec. 24; Gaz. vol. 185; p. 958.
Insulating-rosette for electric-light fixtures. N. Lang. No. 1,021,687; Mar. 26; Sp. p. 5669; Gaz. vol. 176; p. 1020.
Insulating-support for storage-battery tanks. G. H. Morris. No. 1,034,394; July 30; Gaz. vol. 180; p. 1363.
Insulating tie-bar. C. A. Christofferson. No. 1,023,923; Apr. 23; Sp. p. 4622; Gaz. vol. 177; p. 822.
Insulating-tubes, Making. V. P. v. Pindtershofen. No. 1,025,763; May 7; Sp. p. 1444; Gaz. vol. 178; p. 227.
Insulation for electric conductors or the like, Step-by-step. K. Kurda. No. 1,039,298; Sept. 24; Gaz. vol. 182; p. 806.
Insulation from wires, Tool for removing. H. Prack. No. 1,019,835; Mar. 12; Sp. p. 1762; Gaz. vol. 176; p. 309.
Insulation, Machine for making sheet. K. Bassler. No. 1,049,995; Oct. 15; Gaz. vol. 183; p. 513.
Insulation to steam-boilers and other appliances, Composition for attaching. E. Foster. No. 1,019,776; Mar. 12; Sp. p. 1668; Gaz. vol. 176; p. 291.
Insulator. F. C. Van Etten. No. 1,013,241; Jan. 2; Sp. p. 332; Gaz. vol. 174; p. 53.
Insulator. J. Alsberg. No. 1,015,224; Jan. 16; Sp. p. 4686; Gaz. vol. 174; p. 791.
Insulator. J. D. Hilliard, Jr., and C. E. Parsons. No. 1,015,229; Jan. 16; Sp. p. 4709; Gaz. vol. 174; p. 793.
Insulator. P. Rutzky. No. 1,016,780; Feb. 6; Sp. p. 1228; Gaz. vol. 175; p. 189.
Insulator. A. M. Bourke. No. 1,020,880; Mar. 19; Sp. p. 3991; Gaz. vol. 176; p. 695.
Insulator. W. R. Markley. No. 1,021,059; Mar. 26; Sp. p. 4360; Gaz. vol. 176; p. 809.
Insulator. J. A. Guthrie. No. 1,022,026; Apr. 2; Sp. p. 586; Gaz. vol. 177; p. 92.
Insulator. G. W. Willis. No. 1,022,993; Apr. 9; Sp. p. 2640; Gaz. vol. 177; p. 450.
Insulator. C. C. Brady. No. 1,028,534; June 4; Sp. p. 1028; Gaz. vol. 179; p. 156.
Insulator. J. Ellis. No. 1,029,980; June 18; Sp. p. 4171; Gaz. vol. 179; p. 723.
Insulator. H. Lange and F. Druckenmüller. No. 1,031,453; July 2; Gaz. vol. 180; p. 210.
Insulator. M. Nemes. No. 1,032,153; July 9; Gaz. vol. 180; p. 490.
Insulator. R. D. Hilty. No. 1,032,545; July 16; Gaz. vol. 180; p. 543.
Insulator. O. B. Walker. No. 1,032,715; July 16; Gaz. vol. 180; p. 730.
Insulator. F. B. Jewett. No. 1,033,019; July 16; Gaz. vol. 180; p. 829.
Insulator. L. McCarthy. No. 1,035,212; Aug. 13; Gaz. vol. 181; p. 301.
Insulator. L. M. Randolph. No. 1,035,231; Aug. 13; Gaz. vol. 181; p. 308.
Insulator. R. L. and G. Brown. No. 1,035,415; Aug. 13; Gaz. vol. 181; p. 374.
Insulator. W. H. S. Nelson. No. 1,038,418; Sept. 10; Gaz. vol. 182; p. 451.
Insulator. J. Alsburg. No. 1,038,473; Sept. 10; Gaz. vol. 182; p. 471.
Insulator. J. N. Foutz. No. 1,042,902; Oct. 29; Gaz. vol. 183; p. 1225.
Insulator. F. M. Farwell. No. 1,043,916; Nov. 12; Gaz. vol. 184; p. 337.
Insulator. F. Brown. No. 1,048,390; Dec. 24; Gaz. vol. 185; p. 994.
Insulator. J. W. Moore. No. 1,048,850; Dec. 31; Gaz. vol. 185; p. 1192.
Insulator. G. A. Mead. No. 1,048,992; Dec. 31; Gaz. vol. 185; p. 1240.
Insulator and current-distributer, Combined. E. H. Knutz. No. 1,043,321; Nov. 5; Gaz. vol. 184; p. 99.
Insulator and support. L. F. Gressett. No. 1,027,601; May 28; Sp. p. 5506; Gaz. vol. 178; p. 963.
Insulator-bracket. D. W. Wyche. No. 1,041,937; Oct. 22; Gaz. vol. 183; p. 868.
Insulator-clamp. W. G. Clark. No. 1,040,620; Oct. 8; Gaz. vol. 183; p. 355.
Insulator-clamp, Suspension. W. G. Clark. No. 1,019,225; Mar. 5; Sp. p. 482; Gaz. vol. 176; p. 77.
Insulator-clamp, Suspension. W. G. Clark. No. 1,040,975; Oct. 8; Gaz. vol. 183; p. 473.
Insulator-covering. W. J. Moeller. No. 1,020,567; Mar. 19; Sp. p. 3313; Gaz. vol. 176; p. 592.
Insulator, Electrical. D. G. Bolton. No. 1,020,122; Mar. 12; Sp. p. 2377; Gaz. vol. 176; p. 406.
Insulator for automatically securing conducting-wires. F. Zachhuber. No. 1,045,353; Nov. 26; Gaz. vol. 184; p. 893.
Insulator for overhead structures, Section-. F. S. Denneen and G. A. Mead. No. 1,034,888; Aug. 6; Gaz. vol. 181; p. 164.
Insulator for rail-joints. B. G. Braine. No. 1,048,646; Dec. 31; Gaz. vol. 185; p. 1121.
Insulator, High-potential. L. Steinberger. No. 1,040,050; Oct. 1; Gaz. vol. 183; p. 126.
Insulator in junction-boxes or the like, Terminal. R. Deibel. No. 1,027,404; May 28; Sp. p. 5112; Gaz. vol. 178; p. 897.
Insulator-knob. G. Baker. No. 1,014,934; Jan. 16; Sp. p. 4122; Gaz. vol. 174; p. 695.
Insulator, Mine-. F. A. Warren. No. 1,031,975; July 9; Gaz. vol. 180; p. 432.
Insulator-pin. W. J. Wilson. No. 1,013,250; Jan. 2; Sp. p. 353; Gaz. vol. 174; p. 56.
Insulator-pin. C. J. Boyland. No. 1,022,121; Apr. 2; Sp. p. 780; Gaz. vol. 177; p. 124.
Insulator-pin. C. G. Ette. No. 1,045,536; Nov. 26; Gaz. vol. 184; p. 959.
Insulator-pin, Sheet-metal. B. R. Shover. No. 1,026,711; May 21; Sp. p. 3559; Gaz. vol. 178; p. 621.
Insulator, Section-. F. Guillot. No. 1,045,972; Dec. 3; Gaz. vol. 185; p. 61.
Insulator, Sectional. J. C. Gillette. No. 1,019,451; Mar. 5; Sp. p. 1028; Gaz. vol. 176; p. 151.
Insulator, Split. J. R. Harris. No. 1,042,372; Oct. 22; Gaz. vol. 183; p. 1010.
Insulator, Strain-. O. L. Fletcher. No. 1,028,104; June 4; Sp. p. 25; Gaz. vol. 179; p. 7.
Insulator, Strain-. E. E. Schmid. No. 1,046,868; Dec. 10; Gaz. vol. 185; p. 412.
Insulator-support. O. P. Megahan. No. 1,029,207; June 11; Sp. p. 2464; Gaz. vol. 179; p. 419.
Insulator-support for line-wires. H. L. Hoybook. No. 1,047,059; Dec. 10; Gaz. vol. 185; p. 474.
Insulator-supporting device. C. G. Ette. No. 1,027,712; May 28; Sp. p. 5732; Gaz. vol. 178; p. 999.
Insulator-supporting device. C. G. Ette. No. 1,030,574; June 25; Sp. p. 5581; Gaz. vol. 179; p. 970.
Insulators, Process and apparatus for making. J. P. Dahl-Jensen. No. 1,018,484; Feb. 27; Sp. p. 4992; Gaz. vol. 175; p. 878.
Insulators, Wire-holder for. A. J. Riefer and D. P. Mays. No. 1,048,587; Dec. 31; Gaz. vol. 185; p. 1099.
Intaglio-plate-cleaning device. H. A. W. Wood. No. 1,042,517; Oct. 29; Gaz. vol. 183; p. 1090.
Integrating machanism. E. H. Messiter. No. 1,014,604; Jan. 9; Sp. p. 3305; Gaz. vol. 174; p. 549.
Intensifier. W. J. Martin. No. 1,037,031; Aug. 27; Gaz. vol. 181; p. 994.
Interlocking-block structure. A. Haas. No. 1,040,190; Oct. 1; Gaz. vol. 183; p. 173.
Interlocking bracket, Sectional. J. E. Kelly. No. 1,016,694; Feb. 6; Sp. p. 1049; Gaz. vol. 175; p. 160.
Interlocking joint. T. S. Holland. No. 1,032,674; July 16; Gaz. vol. 180; p. 715.
Interlocking mechanism. F. C. Anderson. No. 1,026,730; May 21; Sp. p. 3613; Gaz. vol. 178; p. 627.
Interlocking mechanism. F. Keiper. No. 1,031,184; July 2; Gaz. vol. 180; p. 119.
Interlocking mechanism. H. E. Leppert. No. 1,040,705; Oct. 8; Gaz. vol. 183; p. 385.

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Interlocking tubular construction. F. Barr. No. 1,040,257; Oct. 8; Gaz. vol. 183; p. 226.
Internal-combustion and compressed-air engine, Combined. J. K. Broderick. No. 1,013,528; Jan. 2; Sp. p. 955; Gaz. vol. 174; p. 153.
Internal-combustion apparatus, Constant-pressure. E. P. Noyes. No. 1,013,609; Jan. 2; Sp. p. 1116; Gaz. vol. 174; p. 180.
Internal-combustion engine. W. F. Freidag. No. 1,013,759; Jan. 2; Sp. p. 1448; Gaz. vol. 174; p. 233.
Internal-combustion engine. S. Pearson. No. 1,014,668; Jan. 16; Sp. p. 3517; Gaz. vol. 174; p. 603.
Internal-combustion engine. W. J. Still. No. 1,015,216; Jan. 16; Sp. p. 4672; Gaz. vol. 174; p. 789.
Internal-combustion engine. W. J. Still. No. 1,015,217; Jan. 16; Sp. p. 4675; Gaz. vol. 174; p. 789.
Internal-combustion engine. F. Forest. No. 1,015,948; Jan. 30; Sp. p. 6280; Gaz. vol. 174; p. 1093.
Internal-combustion engine. A. S. Krotz. No. 1,016,335; Feb. 6; Sp. p. 225; Gaz. vol. 175; p. 35.
Internal-combustion engine. R. Carmichael. No. 1,016,981; Feb. 13; Sp. p. 1674; Gaz. vol. 175; p. 293.
Internal-combustion engine. E. H. Belden. No. 1,017,073; Feb. 13; Sp. p. 1873; Gaz. vol. 175; p. 325.
Internal-combustion engine. E. H. Belden. No. 1,017,074; Feb. 13; Sp. p. 1884; Gaz. vol. 175; p. 325.
Internal-combustion engine. E. H. Belden. No. 1,017,075; Feb. 13; Sp. p. 1890; Gaz. vol. 175; p. 326.
Internal-combustion engine. O. C. Blair. No. 1,018,093; Feb. 20; Sp. p. 4150; Gaz. vol. 175; p. 714.
Internal-combustion engine. W. I. Twombly. No. 1,018,532; Feb. 27; Sp. p. 5143; Gaz. vol. 175; p. 895.
Internal-combustion engine. C. A. Dawley. No. 1,018,742; Feb. 27; Sp. p. 5587; Gaz. vol. 175; p. 967.
Internal-combustion engine. A. and R. Lafontaine. No. 1,019,495; Mar. 5; Sp. p. 1134; Gaz. vol. 176; p. 166.
Internal-combustion engine. D. H. Coles and F. Charavay. No. 1,020,128; Mar. 12; Sp. p. 2392; Gaz. vol. 176; p. 408.
Internal-combustion engine. W. H. Ogden. No. 1,020,953; Mar. 19; Sp. p. 4132; Gaz. vol. 176; p. 720.
Internal-combustion engine. J. S. Jennings, Jr. No. 1,022,390; Apr. 2; Sp. p. 1320; Gaz. vol. 177; p. 214.
Internal-combustion engine. J. J. McIntyre. No. 1,022,492; Apr. 9; Sp. p. 1554; Gaz. vol. 177; p. 279.
Internal-combustion engine. G. A. Troutt. No. 1,022,803; Apr. 9; Sp. p. 2255; Gaz. vol. 177; p. 385.
Internal-combustion engine. M. F. Bates. No. 1,023,546; Apr. 16; Sp. p. 3808; Gaz. vol. 177; p. 672.
Internal-combustion engine. J. C. Peache. No. 1,023,957; Apr. 23; Sp. p. 4699; Gaz. vol. 177; p. 833.
Internal-combustion engine. H. Whidbourne and J. J. Lishman. No. 1,024,711; Apr. 30; Sp. p. 6408; Gaz. vol. 177; p. 1128.
Internal-combustion engine. E. Moewes and A. Vischer. No. 1,024,862; Apr. 30; Sp. p. 6720; Gaz. vol. 177; p. 1183.
Internal-combustion engine. H. Whidbourne and J. J. Lishman. No. 1,025,439; May 7; Sp. p. 747; Gaz. vol. 178; p. 115.
Internal-combustion engine. J. F. Hopper. No. 1,026,317; May 14; Sp. p. 2703; Gaz. vol. 178; p. 452.
Internal-combustion engine. D. H. Coles. No. 1,026,563; May 14; Sp. p. 3224; Gaz. vol. 178; p. 533.
Internal-combustion engine. S. Lake. No. 1,026,871; May 21; Sp. p. 3906; Gaz. vol. 178; p. 675.
Internal-combustion engine. H. R. Ricardo. No. 1,027,278; May 21; Sp. p. 4848; Gaz. vol. 178; p. 816.
Internal-combustion engine. M. L. Williams. No. 1,027,680; May 28; Sp. p. 5669; Gaz. vol. 178; p. 988.
Internal-combustion engine. R. H. Powell. No. 1,029,398; June 11; Sp. p. 2909; Gaz. vol. 179; p. 486.
Internal-combustion engine. E. R. Burtnett. No. 1,029,419; June 11; Sp. p. 2947; Gaz. vol. 179; p. 493.
Internal-combustion engine. L. F. Hellmann. No. 1,029,929; June 18; Sp. p. 4070; Gaz. vol. 179; p. 707.
Internal-combustion engine. L. S. and R. Watres. No. 1,030,217; June 18; Sp. p. 4674; Gaz. vol. 179; p. 805.
Internal-combustion engine. C. L. Cook. No. 1,030,806; June 25; Sp. p. 6247; Gaz. vol. 179; p. 1055.
Internal-combustion engine. G. S. Chapin. No. 1,031,245; July 2; Gaz. vol. 180; p. 140.
Internal-combustion engine. G. M. Fairfield. No. 1,031,991; July 9; Gaz. vol. 180; p. 437.
Internal-combustion engine. L. Woodworth. No. 1,032,171; July 9; Gaz. vol. 180; p. 498.
Internal-combustion engine. M. C. White and O. C. Duryea. No. 1,033,504; July 23; Gaz. vol. 180; p. 1031.
Internal-combustion engine. G. W. Hutchinson. No. 1,033,760; July 23; Gaz. vol. 180; p. 1113.
Internal-combustion engine. W. J. Robb and W. H. Welch. No. 1,033,939; July 30; Gaz. vol. 180; p. 1203.
Internal-combustion engine. E. V. Reno and J. A. C. Bois. No. 1,035,234; Aug. 13; Gaz. vol. 181; p. 309.
Internal-combustion engine. G. A. F. Ahlberg. No. 1,035,513; Aug. 13; Gaz. vol. 181; p. 406.
Internal-combustion engine. C. C. Keyser. No. 1,035,600; Aug. 13; Gaz. vol. 181; p. 436.
Internal-combustion engine. J. R. Pearson. No. 1,035,899; Aug. 20; Gaz. vol. 181; p. 575.
Internal-combustion engine. H. McCornack. No. 1,036,503; Aug. 20; Gaz. vol. 181; p. 785.
Internal-combustion engine. A. E. Youngren. No. 1,037,400; Sept. 3; Gaz. vol. 182; p. 74.
Internal-combustion engine. A. M. Chase. No. 1,037,437; Sept. 3; Gaz. vol. 182; p. 88.
Internal-combustion engine. E. O. Hayes. No. 1,037,478; Sept. 3; Gaz. vol. 182; p. 103.
Internal-combustion engine. J. H. Eaton. No. 1,037,605; Sept. 3; Gaz. vol. 182; p. 143.
Internal-combustion engine. R. W. Coffee. No. 1,037,868; Sept. 10; Gaz. vol. 182; p. 264.
Internal-combustion engine. E. S. Michener. No. 1,037,953; Sept. 10; Gaz. vol. 182; p. 295.
Internal-combustion engine. A. M. Laycock. No. 1,038,767; Sept. 17; Gaz. vol. 182; p. 606.
Internal-combustion engine. L. H. L. Bellem and G. J. B. Brégéras. No. 1,038,830; Sept. 17; Gaz. vol. 182; p. 629.
Internal-combustion engine. O. W. Curtis. No. 1,039,704; Oct. 1; Gaz. vol. 183; p. 10.
Internal-combustion engine. W. B. S. Whaley and A. L. Galusha. No. 1,039,865; Oct. 1; Gaz. vol. 183; p. 66.
Internal-combustion engine. W. B. S. Whaley and E. P. Robinson. No. 1,039,866; Oct. 1; Gaz. vol. 183; p. 66.
Internal-combustion engine. E. P. Robinson. No. 1,040,018; Oct. 1; Gaz. vol. 183; p. 115.
Internal-combustion engine. N. E. Crothers. No. 1,040,153; Oct. 1; Gaz. vol. 183; p. 162.
Internal-combustion engine. C. V. Fite. No. 1,040,299; Oct. 8; Gaz. vol. 183; p. 240.
Internal-combustion engine. W. C. Carter. No. 1,040,508; Oct. 8; Gaz. vol. 183; p. 312.
Internal-combustion engine. B. Read. No. 1,041,162; Oct. 15; Gaz. vol. 183; p. 569.
Internal-combustion engine. H. Knudsen. No. 1,041,303; Oct. 15; Gaz. vol. 183; p. 618.
Internal-combustion engine. R. T. White. No. 1,042,181; Oct. 22; Gaz. vol. 183; p. 947.
Internal-combustion engine. A. F. Chubbuck. No. 1,042,322; Oct. 22; Gaz. vol. 183; p. 993.
Internal-combustion engine. F. A. Thurston. No. 1,042,503; Oct. 29; Gaz. vol. 183; p. 1085.
Internal-combustion engine. W. I. Twombly. No. 1,042,505; Oct. 29; Gaz. vol. 183; p. 1086.
Internal-combustion engine. W. H. Richman. No. 1,042,970; Oct. 29; Gaz. vol. 183; p. 1247.
Internal-combustion engine. J. M. Sailer. No. 1,042,975; Oct. 29; Gaz. vol. 183; p. 1248.
Internal-combustion engine. W. S. Russell. No. 1,043,254; Nov. 5; Gaz. vol. 184; p. 73.
Internal-combustion engine. E. A. Hornbostel. No. 1,043,769; Nov. 5; Gaz. vol. 184; p. 254.
Internal-combustion engine. G. R. Elliott. No. 1,043,816; Nov. 12; Gaz. vol. 184; p. 301.
Internal-combustion engine. A. J. Lavoie. No. 1,044,198; Nov. 12; Gaz. vol. 184; p. 433.
Internal-combustion engine. H. W. Bolens. No. 1,044,481; Nov. 19; Gaz. vol. 184; p. 560.
Internal-combustion engine. J. E. Gilson. No. 1,044,514; Nov. 19; Gaz. vol. 184; p. 571.
Internal-combustion engine. G. E. Bowen. No. 1,044,736; Nov. 19; Gaz. vol. 184; p. 650.
Internal-combustion engine. E. H. Belden. No. 1,045,500; Nov. 26; Gaz. vol. 184; p. 945.
Internal-combustion engine. J. Kelly. No. 1,045,560; Nov. 26; Gaz. vol. 184; p. 967.
Internal-combustion engine. V. J. Diefenderfer. No. 1,046,280; Dec. 3; Gaz. vol. 185; p. 168.
Internal-combustion engine. C. Saunders, A. A. Rupprecht, and E. L. Grant. No. 1,046,863; Dec. 10; Gaz. vol. 185; p. 410.
Internal-combustion engine. A. Butsch. No. 1,046,965; Dec. 10; Gaz. vol. 185; p. 443.
Internal-combustion engine. W. I. Twombly. No. 1,047,860; Dec. 17; Gaz. vol. 185; p. 789.
Internal-combustion engine. W. O. Barnes. No. 1,048,482; Dec. 31; Gaz. vol. 185; p. 1063.
Internal-combustion engine. W. Wallace. No. 1,048,610; Dec. 31; Gaz. vol. 185; p. 1107.
Internal-combustion engine. L. Illmer, Jr. No. 1,048,698; Dec. 31; Gaz. vol. 185; p. 1140.
Internal-combustion engine. W. C. Westaway. No. 1,048,922; Dec. 31; Gaz. vol. 185; p. 1216.
Internal-combustion engine and compressed-air engine, Combined. C. W. Baker. No. 1,016,603; Feb. 6; Sp. p. 857; Gaz. vol. 175; p. 128.
Internal-combustion engine and the like. E. L. and E. D. Courtwright. No. 1,039,492; Sept. 24; Gaz. vol. 182; p. 872.
Internal-combustion-engine exhaust-silencer. F. E. Wolf. No. 1,032,794; July 16; Gaz. vol. 180; p. 755.
Internal-combustion engine of the revolving-cylinder type. A. B. E. Cheeseman and J. G. Florence. No. 1,019,222; Mar. 5; Sp. p. 471; Gaz. vol. 176; p. 75.
Internal-combustion engine of the tandem type. T. Rigby. No. 1,018,372; Feb. 20; Sp. p. 4720; Gaz. vol. 175; p. 808.
Internal-combustion engine or the like. W. C. Westaway. No. 1,031,754; July 9; Gaz. vol. 180; p. 357.

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Internal-combustion engine, Reversible. O. H. Ensign. No. 1,042,540; Oct. 29; Gaz. vol. 183; p. 1098.
Internal-combustion engine, Revolving-cylinder. C. B. Redrup. No. 1,047,839; Dec. 17; Gaz. vol. 185; p. 782.
Internal-combustion engine, Rotary. J. L. Strickland. No. 1,019,856; Mar. 12; Sp. p. 1813; Gaz. vol. 176; p. 317.
Internal-combustion engine, Two-stroke-cycle. G. A. Bräuer. No. 1,045,505; Nov. 26; Gaz. vol. 184; p. 947.
Internal-combustion generator. I. C. Jennings. No. 1,024,079; Apr. 23; Sp. p. 4942; Gaz. vol. 177; p. 876.
Internal-combustion motor. B. Brazelle. No. 1,022,177; Apr. 2; Sp. p. 900; Gaz. vol. 177; p. 144.
Internal-combustion motor. B. Brazelle. No. 1,022,178; Apr. 2; Sp. p. 903; Gaz. vol. 177; p. 144.
Internal-combustion motor. E. P. Williams. No. 1,037,094; Aug. 27; Gaz. vol. 181; p. 1014.
Internal-combustion motor. G. B. Collier. No. 1,040,277; Oct. 8; Gaz. vol. 183; p. 232.
Internal-combustion rotary engine. W. Barnes. No. 1,018,953; Feb. 27; Sp. p. 6020; Gaz. vol. 175; p. 1038.
Internal-combustion rotary engine. R. A. Morton. No. 1,019,177; Mar. 5; Sp. p. 383; Gaz. vol. 176; p. 60.
Interwound fabric, Laminated cohesive. L. A. Subers. No. 1,024,915; Apr. 30; Sp. p. 6830; Gaz. vol. 177; p. 1201.
Intestine-cleaning machine. G. S. Billman. No. 1,023,547; Apr. 16; Sp. p. 3809; Gaz. vol. 177; p. 672.
Intestine-cleaning machine. G. S. Billman. No. 1,048,487; Dec. 31; Gaz. vol. 185; p. 1065.
Intestines or casings, Machine for cleaning. H. D. Oppenheimer. No. 1,019,079; Mar. 5; Sp. p. 156; Gaz. vol. 176; p. 26.
Intumescent material and making the same. W. Arthur. No. 1,041,565; Oct. 15; Gaz. vol. 183; p. 703.
Invalid-carrier. M. Rosse. No. 1,035,642; Aug. 13; Gaz. vol. 181; p. 450.
Invalid's chair. W. Diemer. No. 1,039,709; Oct. 1; Gaz. vol. 183; p. 12.
Invalid's rest. F. I. Belles. No. 1,028,664; June 4; Sp. p. 1299; Gaz. vol. 179; p. 199.
Invalid's table. F. J. Collins. No. 1,028,932; June 11; Sp. p. 1885; Gaz. vol. 179; p. 325.
Inverted burner. S. Krauze. No. 1,015,692; Jan. 23; Sp. p. 5750; Gaz. vol. 174; p. 979.
Inverted burner. A. C. Recker. No. 1,035,639; Aug. 13; Gaz. vol. 181; p. 450.
Inverted burner for liquid combustibles. F. Altmann. No. 1,025,851; May 7; Sp. p. 1622; Gaz. vol. 178; p. 257.
Iodin compounds, Preparing organic. J. L. Turner. No. 1,016,799; Feb. 6; Sp. p. 1267; Gaz. vol. 175; p. 195.
Iodin solution. J. Wemer. No. 1,013,913; Jan. 9; Sp. p. 1838; Gaz. vol. 174; p. 315.
Iodin solution. J. Wemer. (Reissue.) No. 13,462; Aug. 27; Gaz. vol. 181; p. 1047.
Iron: *See* Chair-iron; Copying-iron; Creasing-iron; Curling-iron; Electric iron; Flat-iron; Laundry-iron; Panel-board corner-iron; Pretzel-iron; Sad-iron; Soldering-iron.
Iron albuminous compounds containing phosphorus, Preparing. F. Zuckmayer. No. 1,027,967; May 28; Sp. p. 6318; Gaz. vol. 178; p. 1085.
Iron albuminous compounds containing phosphorus, Preparing. F. Zuckmayer. No. 1,027,968; May 28; Sp. p. 6322; Gaz. vol. 178; p. 1085.
Iron-albuminous compounds, Making. F. Zuckmayer. No. 1,036,405; Aug. 20; Gaz. vol. 181; p. 751.
Iron and steel articles, Permeating protective for. H. J. Lohmann. No. 1,039,978; Oct. 1; Gaz. vol. 183; p. 103.
Iron arm and knob. F. Browalski. No. 1,036,437; Aug. 20; Gaz. vol. 181; p. 762.
Iron, Copperizing. W. G. Clark. No. 1,014,454; Jan. 9; Sp. p. 3024; Gaz. vol. 174; p. 501.
Iron, Denitrogenizing practically pure. R. D. Campbell. No. 1,017,620; Feb. 13; Sp. p. 3024; Gaz. vol. 175; p. 511.
Iron-glycero-phosphate combined with milk or milk-albumin, Making a soluble compound of. P. Hoering. No. 1,027,844; May 28; Sp. p. 6020; Gaz. vol. 178; p. 1043;
Iron, Manufacture of vanadium cast-. F. W. Stickle. No. 1,046,232; Dec. 3; Gaz. vol. 185; p. 151.
Iron or steel articles, Treating. G. F. Wescott. No. 1,034,174; July 30; Gaz. vol. 180; p. 1286.
Iron or steel, Refining. K. A. F. Hiorth. No. 1,028,070; May 28; Sp. p. 6538; Gaz. vol. 178; p. 1117.
Iron ore, Reducing. G. Gröndal. No. 1,033,051; July 16; Gaz. vol. 180; p. 840.
Iron ore. Treated. E. F. Goltra. No. 1,035,960; Aug. 20; Gaz. vol. 181; p. 595.
Iron ores, Treating. B. F. Halvorsen. No. 1,024,629; Apr. 30; Sp. p. 6249; Gaz. vol. 177; p. 1100.
Iron, Producing practically pure. A. P. Scott. No. 1,017,473; Feb. 13; Sp. p. 2757; Gaz. vol. 175; p. 464.
Iron, Purifying. H. A. Brassert. No. 1,032,654; July 16; Gaz. vol. 180; p. 707.
Iron rest, polisher, and waxer, Combined. W. Hutchings. No. 1,014,478; Jan. 9; Sp. p. 3062; Gaz. vol. 174; p. 508.
Ironer, Flat-work. F. P. Hess. No. 1,016,992; Feb. 13; Sp. p. 1699; Gaz. vol. 175; p. 296.
Ironing-board. J. W. Allen. No. 1,016,196; Jan. 30; Sp. p. 6780; Gaz. vol. 174; p. 1179.
Ironing-board. E. F. Pfund. No. 1,016,288; Feb. 6; Sp. p. 116; Gaz. vol. 175; p. 19.
Ironing-board. W. E. Koch. No. 1,017,155; Feb. 13; Sp. p. 2063; Gaz. vol. 175; p. 354.
Ironing-board. C. A. Baker. No. 1,017,842; Feb. 20; Sp. p. 3562; Gaz. vol. 175; p. 625.
Ironing-board J. Burr. No. 1,018,295; Feb. 20; Sp. p. 4559; Gaz. vol. 175; p. 782.
Ironing-board. M. S. Clarke. No. 1,022,404; Apr. 9; Sp. p. 1361; Gaz. vol. 177; p. 249.
Ironing-board. J. B. Cottle. No. 1,024,720; Apr. 30; Sp. p. 6425; Gaz. vol. 177; p. 1132.
Ironing-board. F. G. Hoffine. No. 1,027,479; May 28; Sp. p. 5253; Gaz. vol. 178; p. 921.
Ironing-board. A. Miles. No. 1,030,006; June 18; Sp. p. 4218; Gaz. vol. 179; p. 731.
Ironing-board. W. B. Mitchell. No. 1,030,914; July 2; Gaz. vol. 180; p. 22.
Ironing-board. A. Gordon. No. 1,032,331; July 9; Gaz. vol. 180; p. 553.
Ironing-board. H. Mendenhall and A. T. Killinger. No. 1,034,021; July 30; Gaz. vol. 180; p. 1234.
Ironing-board. B. M. Carlson. No. 1,036,795; Aug. 27; Gaz. vol. 181; p. 915.
Ironing-board. N. T. Coffey. No. 1,039,649; Sept. 24; Gaz. vol. 182; p. 928.
Ironing-board and step-ladder, Combined folding. G. B. Sanderson. No. 1,043,734; Nov. 5; Gaz. vol. 184; p. 242.
Ironing-board attachment. G. C. Lachtrop. No. 1,016,337; Feb. 6; Sp. p. 231; Gaz. vol. 175; p. 35.
Ironing-board attachment. H. M. North. No. 1,016,848; Feb. 6; Sp. p. 1357; Gaz. vol. 175; p. 209.
Ironing-board attachment for kitchen-tables. T. Wolf. No. 1,043,186; Nov. 5; Gaz. vol. 184; p. 50.
Ironing-board cabinet. A. Friske and E. J. Score. No. 1,040,182; Oct. 1; Gaz. vol. 183; p. 171.
Ironing-board cabinet. W. Schongold. No. 1,042,826; Oct. 29; Gaz. vol. 183; p. 1199.
Ironing-board cover. T. M. Brookman. No. 1,035,683; Aug. 13; Gaz. vol. 181; p. 464.
Ironing-board cover. A. H. Neubert. No. 1,042,138; Oct. 22; Gaz. vol. 183; p. 933.
Ironing-board. Foldable. I. W. Bowman. No. 1,034,189; July 30; Gaz. vol. 180; p. 1291.
Ironing-board, Folding. E. H. Faust. No. 1,032,196; July 9; Gaz. vol. 180; p. 506.
Ironing-machine. C. T. Gilmore. No. 1,029,183; June 11; Sp. p. 2410; Gaz. vol. 179; p. 411.
Ironing-machine. A. Hammer. No. 1,032,402; July 16; Gaz. vol. 180; p. 621.
Ironing-machine. A. Hammer. No. 1,032,403; July 16; Gaz. vol. 180; p. 622.
Ironing-machine. E. E. Norton and A. U. Langengger. No. 1,034,139; July 30; Gaz. vol. 180; p. 1274.
Ironing-machine. L. R. Heim. No. 1,036,111; Aug. 20; Gaz. vol. 181; p. 647.
Ironing-machine. C. M. Appleget. No. 1,046,936; Dec. 10; Gaz. vol. 185; p. 434.
Ironing or finishing machine, Turn-down-collar edge. W. A. Zeidler. No. 1,022,169; Apr. 2; Sp. p. 886; Gaz. vol. 177; p. 141.
Ironing-table. C. M. Resch. No. 1,015,072; Jan. 16; Sp. p. 4410; Gaz. vol. 174; p. 741.
Ironing-table. M. E. Primbs and P. J. Bittner. No. 1,019,523; Mar. 5; Sp. p. 1187; Gaz. vol. 176; p. 176.
Ironing-table. A. Williams. No. 1,021,285; Mar. 26; Sp. p. 4842; Gaz. vol. 176; p. 883.
Ironing-table. C. E. Zeisinger. No. 1,022,996; Apr. 9; Sp. p. 2646; Gaz. vol. 177; p. 451.
Ironing-table. J. T. Fields. No. 1,029,056; June 11; Sp. p. 2141; Gaz. vol. 179; p. 369.
Ironing-table. E. J. Patton. No. 1,039,791; Oct. 1; Gaz. vol. 183; p. 41.
Ironing-table. O. S. Francis and W. P. Ellis. No. 1,043,516; Nov. 5; Gaz. vol. 184; p. 169.
Ironing-table. E. J. Lane. No. 1,047,818; Dec. 17; Gaz. vol. 185; p. 774.
Ironing-table and washbench. W. R. Padley. No. 1,035,896; Aug. 20; Gaz. vol. 181; p. 574.
Ironing-table, Folding. G. V. Murray. No. 1,036,887; Aug. 27; Gaz. vol. 181; p. 945.
Irrigating apparatus. W. P. McMillan. No. 1,017,578; Feb. 13; Sp. p. 2947; Gaz. vol. 175; p. 498.
Irrigating-conduit. E. L. Linxweiler. No. 1,043,118; Nov. 5; Gaz. vol. 184; p. 25.
Irrigating connection. G. E. Kellar. No. 1,016,159; Jan. 30; Sp. p. 6715; Gaz. vol. 174; p. 1167.
Irrigating-ditch controller. A. Beal. No. 1,014,438; Jan. 9; Sp. p. 2992; Gaz. vol. 174; p. 496.
Irrigating-machine. J. Ropp. No. 1,019,740; Mar. 5; Sp. p. 1583; Gaz. vol. 176; p. 246.
Irrigation apparatus. I. L. Roddy. No. 1,014,521; Jan. 9; Sp. p. 3142; Gaz. vol. 174; p. 532.
Irrigation, Machine for punching holes in the ground for the purpose of. J. A. Magill. No. 1,044,404; Nov. 12; Gaz. vol. 184; p. 505.
Irrigation-regulator. G. R. Proctor. No. 1,028,780; June 4; Sp. p. 1532; Gaz. vol. 179; p. 238.

Alphabetical list of inventions—Continued.

Irrigation system. C. W. McKee. No. 1,018,251; Feb. 20; Sp. p. 4473; Gaz. vol. 175; p. 768.
Irrigation, Tree and plant. H. F. Thompson. No. 1,042,501; Oct. 29; Gaz. vol. 183; p. 1085.
Isolated alkali salts of indoxyl and making same. A. Schmidt. No. 1,027,441; May 28; Sp. p. 5189; Gaz. vol. 178; p. 910.
Isoprene, Manufacture of. O. Silberrad. No. 1,022,338; Apr. 2; Sp. p. 1227; Gaz. vol. 177; p. 196.
Isoprene, Producing. G. Merling and H. Köhler. No. 1,026,691; May 21; Sp. p. 3521; Gaz. vol. 178; p. 614.
Isoprene, Producing. G. Merling and H. Köhler. No. 1,026,692; May 21; Sp. p. 3521; Gaz. vol. 178; p. 614.
Isoprene, Producing. L. P. Kyriades and R. B. Earle. No. 1,033,180; July 23; Gaz. vol. 180; p. 923.
Isoprene, Producing. G. Merling and H. Köhler. No. 1,036,875; Aug. 27; Gaz. vol. 181; p. 942.
Jack: *See* Air-jack; Automobile-jack; Bed-jack; Clamping-jack; Door-jack; Floor-jack; Hydraulic jack; Journal-jack; Lifting-jack; Lumber-jack; Pipe lifting and lowering jack; Pneumatic jack; Pump-jack; Quick-action jack; Shoe-jack; Shoe-machine jack; Shoe-repairing jack; Shoemaker's jack; Smoke-jack; Sole laying and leveling jack; Testing-jack; Track-lifting jack; Vehicle-jack; Wagon-jack; Wheel-jack.
Jack. M. Lutenberger. No. 1,027,348; May 21; Sp. p. 4979; Gaz. vol. 178; p. 839.
Jack. O. E. Tope. No. 1,030,945; July 2; Gaz. vol. 180; p. 33.
Jack. W. E. Quinn. No. 1,036,002; Aug. 20; Gaz. vol. 181; p. 608.
Jack. A. F. Dixon and W. E. Freeman. No. 1,043,810; Nov. 12; Gaz. vol. 184; p. 299.
Jack. L. Willour. No. 1,044,718; Nov. 19; Gaz. vol. 184; p. 644.
Jack-box, Cordless. E. E. Dildine and J. A. Rugh. No. 1,039,656; Sept. 24; Gaz. vol. 182; p. 930.
Jack for raising concrete-wall forms. A. E. Jacobson. No. 1,044,659; Nov. 19; Gaz. vol. 184; p. 624.
Jacquard. J. A. Groebli. No. 1,042,668; Oct. 29; Gaz. vol. 183; p. 1144.
Jacquard-card-punching machine. J. A. Groebli. No. 1,044,777; Nov. 19; Gaz. vol. 184; p. 666.
Jacquard mechanism. J. A. Groebli. No. 1,033,888; July 30; Gaz. vol. 180; p. 1186.
Jacquard mechanism. J. A. Groebli. No. 1,033,889; July 30; Gaz. vol. 180; p. 1186.
Jacquard mechanism. J. A. Groebli. No. 1,034,106; July 30; Gaz. vol. 180; p. 1263.
Jail-door lock and operating mechanism. F. Adam. No. 1,043,746; Nov. 5; Gaz. vol. 184; p. 246.
Jail-door-locking mechanism. J. Allenson. No. 1,043,748; Nov. 5; Gaz. vol. 184; p. 247.
Jail-locking device. F. Adam. No. 1,043,747; Nov. 5; Gaz. vol. 184; p. 247.
Jar: *See* Combination-jar; Fruit-jar; Paste-jar; Preserve-jar.
Jar attachment, Fruit-. F. H. Mattes. No. 1,037,649; Sept. 3; Gaz. vol. 182; p. 159.
Jar, bottle, canister, &c., for holding sweetmeats and stopper therefor. J. Mackintosh. No. 1,016,508; Feb. 6; Sp. p. 623; Gaz. vol. 175; p. 95.
Jar cap or closure. E. D. Schmitt. No. 1,025,314; May 7; Sp. p. 459; Gaz. vol. 178; p. 73.
Jar-closure. M. K. Miller. No. 1,032,490; July 16; Gaz. vol. 180; p. 651.
Jar-closure. C. J. Johnson. No. 1,040,207; Oct. 1; Gaz. vol. 183; p. 180.
Jar-closure. J. E. Barranger. No. 1,046,942; Dec. 10; Gaz. vol. 185; p. 436.
Jar-cover straightener. B. S. Knutson. No. 1,045,040; Nov. 19; Gaz. vol. 184; p. 756.
Jar-holder. M. A. Youngblood. No. 1,031,310; July 2; Gaz. vol. 180; p. 163.
Jar holder, Fruit-. C. Schaumburg. No. 1,033,276; July 23; Gaz. vol. 180; p. 957.
Jar molding-machine. W. Lewis. No. 1,033,812; July 30; Gaz. vol. 180; p. 1158.
Jar opener, Fruit-. H. D. Auld. No. 1,022,574; Apr. 9; Sp. p. 1735; Gaz. vol. 177; p. 306.
Jar opener, Milk-. L. B. Ingham. No. 1,042,680; Oct 29; Gaz. vol. 183; p. 1148.
Jar or bottle closure. A. H. Emery. No. 1,044,365; Nov. 12; Gaz. vol. 184; p. 491.
Jar top and cover. E. A. Parker. No. 1,045,319; Nov. 26; Gaz. vol. 184; p. 880.
Jars, Closing. W. H. Roystone. No. 1,047,302; Dec. 17; Gaz. vol. 185; p. 594.
Jars or vessels, Cover for hermetically closing. J. B. Bellamy. No. 1,025,942; May 7; Sp. p. 1859; Gaz. vol. 178; p. 287.
Jaw-brace. L. T. Little. No. 1,044,206; Nov. 12; Gaz. vol. 184; p. 437.
Jaw-crusher. A. B. Black and J. H. McKee. No. 1,032,808; July 16; Gaz. vol. 180; p. 760.
Jewel-chest, Safety. H. Schmarsow. No. 1,028,910; June 11; Sp. p. 1829; Gaz. vol. 179; p. 318.
Jewel-cup. H. F. Goetz. No. 1,039,516; Sept. 24; Gaz. vol. 182; p. 882.
Jewel-setting. T. Mountford. No. 1,032,762; July 16; Gaz. vol. 180; p. 745.
Jewel-setting. D. Brevetti. No. 1,035,310; Aug. 13; Gaz. vol. 181; p. 337.
Jewel-setting tool. F. Krimmling. No. 1,045,299; Nov. 26; Gaz. vol. 184; p. 874.
Jewels, Device for setting pallet-. A. Hurwitz. No. 1,016,829; Feb. 6; Sp. p. 1321; Gaz. vol. 175; p. 203.
Jewels, Making meter-. H. R. Connell. No. 1,023,299; Apr. 16; Sp. p. 3320; Gaz. vol. 177; p. 594.
Jeweler's appliance. L. E. Bing. No. 1,037,195; Sept. 3; Gaz. vol. 182; p. 6.
Jeweler's bench-block. P. and F. Lux. No. 1,046,818; Dec. 10; Gaz. vol. 185; p. 395.
Jeweler's gage. L. K. Malvern. No. 1,020,832; Mar. 19; Sp. p. 3892; Gaz. vol. 176; p. 680.
Jeweler's tool. A. J. Krueger. No. 1,047,658; Dec. 17; Gaz. vol. 185; p. 719.
Jewelry. A. Segman. No. 1,021,491; Mar. 26; Sp. p. 5304; Gaz. vol. 176; p. 956.
Jewelry. J. W. Mayer. No. 1,045,106; Nov. 19; Gaz. vol. 184; p. 778.
Jewelry, Article of. F. Blume. No. 1,025,447; May 7; Sp. p. 762; Gaz. vol. 178; p. 118.
Jewelry, Article of. M. L. Robbins. No. 1,032,025; July 9; Gaz. vol. 180; p. 449.
Jewelry-box fastener. J. R. Sundee. No. 1,025,430; May 7; Sp. p. 705; Gaz. vol. 178; p. 112.
Jewelry fastening means. W. Leidig. No. 1,034,019; July 30; Gaz. vol. 180; p. 1233.
Jewelry, Front for articles of. F. P. Barney. No. 1,024,055; Apr. 23; Sp. p. 4897; Gaz. vol. 177; p. 868.
Jewelry safety attachment. E. H. Hahnefeld. No. 1,019,788; Mar. 12; Sp. p. 1690; Gaz. vol. 176; p. 294.
Jewelry safety-catch. E. P. Kohn. No. 1,038,392; Sept. 10; Gaz. vol. 182; p. 441.
Jewelry safety-clasp. M. A. Gerson. No. 1,025,973; May 14; Sp. p. 1926; Gaz. vol. 178; p. 332.
Jewelry-setting. M. L. Robbins. No. 1,035,909; Aug. 20; Gaz. vol. 181; p. 578.
Jews'-harp. J. R. Combs. No. 1,044,025; Nov. 12; Gaz. vol. 184; p. 375.
Jig. G. W. Keller, C. and A. Brassington. No. 1,014,308; Jan. 9; Sp. p. 2699; Gaz. vol. 174; p. 450.
Jig-gate. J. C. Breeden. No. 1,025,242; May 7; Sp. p. 295; Gaz. vol. 178; p. 48.
Jigger. F. E. Woodbury. No. 1,046,702; Dec. 10; Gaz. vol. 185; p. 355.
Jock-strap. L. C. West. No. 1,020,588; Mar. 19; Sp. p. 3365; Gaz. vol. 176; p. 598.
Joint: *See* Air or steam joint; Bed-frame joint; Bed-rail joint; Bracelet-joint; Cable-armor joint; Conductor-joint; Conduit-joint; Conduit and like joint; Cross-joint; Expansion-joint; Flexible joint; Flume-joint; Furniture-joint; Gas and air tight joint; Glue joint; Hinge-joint; Insulating-joint; Interlocking joint; Oar or the like joint; Packed joint; Packing-joint; Paving-joint; Piling-joint; Pipe-joint; Pipe ball-joint; Plastic-coating-distributing joint; Rail-joint; Railway-joint; Railway-rail joint; Railway-switch joint; Receptacle-joint; Roof-joint; Rule-joint; Signal-joint; Socket-joint; Spring-joint; Step-joint; Stove or furnace joint; Stove-pipe-joint; Swivel-joint; Swivel pan-joint; Track-joint; Trolley-pole spring-joint; Universal joint; Wall-casing joint.
Joint. T. F. Payne. No. 1,034,499; Aug. 6; Gaz. vol. 181; p. 33.
Joint. C. A. Kraus. No. 1,046,084; Dec. 3; Gaz. vol. 185; p. 98.
Joint. C. A. Kraus. No. 1,046,085; Dec. 3; Gaz. vol. 185; p. 98.
Joint. C. A. Kraus. No. 1,046,416; Dec. 3; Gaz. vol. 185; p. 217.
Joint and connection for crossed or abutting parts. H. Weygand. No. 1,014,684; Jan. 16; Sp. p. 3562; Gaz. vol. 174; p. 609.
Joint-chair. G. Barclay. No. 1,025,044; Apr. 30; Sp. p. 7077; Gaz. vol. 177; p. 1244.
Joint connection. S. C. MacDowney. No. 1,041,645; Oct. 15; Gaz. vol. 183; p. 729.
Joint coupling, Universal-. S. Whitworth. No. 1,043,493; Nov. 5; Gaz. vol. 184; p. 161.
Joint-fastening. J. W. Hawkins. No. 1,030,088; June 18; Sp. p. 4407; Gaz. vol. 179; p. 761.
Joint for connecting fittings. E. F. and W. L. Osborne. No. 1,035,810; Aug. 13; Gaz. vol. 181; p. 507.
Joint for rolled metal bars. E. W. Goodey. No. 1,034,440; Aug. 6; Gaz. vol. 181; p. 14.
Joint-machine and welt-cutter. C. S. Norden. No. 1,023,953; Apr. 23; Sp. p. 4688; Gaz. vol. 177; p. 832.
Joints for wires or rods, Making. J. P. Eustis. No. 1,045,383; Nov. 26; Gaz. vol. 184; p. 902.
Joints, Making leather. F. Rampichini. No. 1,048,877; Dec. 31; Gaz. vol. 185; p. 1201.
Jointers, Guard for. D. M. Peters. No. 1,046,637; Dec. 10; Gaz. vol. 185; p. 331.
Joist and girder hanger. J. Fredrickson. No. 1,019,778; Mar. 12; Sp. p. 1670; Gaz. vol. 176; p. 291.
Joist-hanger. L. S. Sherwood. No. 1,046,874; Dec. 10; Gaz. vol. 185; p. 414.
Jolt-ramming apparatus. E. H. Mumford. No. 1,017,685; Feb. 20; Sp. p. 3167; Gaz. vol. 175; p. 570.

Alphabetical list of inventions—Continued.

Jolting-machine. W. C. Norcross. No. 1,016,086; Jan. 30; Sp. p. 6590; Gaz. vol. 174; p. 1144.
Journal-bearing. R. T. Pearce. No. 1,021,846; Apr. 2; Sp. p. 204; Gaz. vol. 177; p. 34.
Journal-bearing. W. G. Price. No. 1,032,159; July 9; Gaz. vol. 180; p. 493.
Journal-bearing. W. E. Callane. No. 1,036,519; Aug. 20; Gaz. vol. 181; p. 790.
Journal-bearing. G. J. Pollock. No. 1,046,640; Dec. 10; Gaz. vol. 185; p. 332.
Journal-bearing automatic lubricator. J. A. McCallum. No. 1,039,426; Sept. 24; Gaz. vol. 182; p. 849.
Journal-bearing wedge. R. E. Frame. No. 1,021,141; Mar. 26; Sp. p. 4527; Gaz. vol. 176; p. 834.
Journal-bearings, Electric alarm attachment for. J. E. Rogers. No. 1,041,514; Oct. 15; Gaz. vol. 183; p. 687.
Journal-box. M. P. Newcomb. No. 1,015,335; Jan. 23; Sp. p. 4968; Gaz. vol. 174; p. 857.
Journal-box. G. A. Woodman. No. 1,015,529; Jan. 23; Sp. p. 5381; Gaz. vol. 174; p. 922.
Journal-box. G. A. Woodman. No. 1,015,607; Jan. 23; Sp. p. 5552; Gaz. vol. 174; p. 951.
Journal-box. W. R. Buss and N. Yonkman. No. 1,017,245; Feb. 13; Sp. p. 2267; Gaz. vol. 175; p. 385.
Journal-box. C. F. Beers. No. 1,017,278; Feb. 13; Sp. p. 2329; Gaz. vol. 175; p. 396.
Journal-box. F. H. Koerner. No. 1,017,295; Feb. 13; Sp. p. 2358; Gaz. vol. 175; p. 402.
Journal-box. L. G. Woods. No. 1,019,109; Mar. 5; Sp. p. 221; Gaz. vol. 176; p. 35.
Journal-box. J. W. Stephenson. No. 1,025,888; May 7; Sp. p. 1750; Gaz. vol. 178; p. 269.
Journal-box. J. Herron and H. Bitters. No. 1,040,322; Oct. 8; Gaz. vol. 183; p. 249.
Journal-box. L. K. Smith. No. 1,046,032; Dec. 3; Gaz. vol. 185; p. 80.
Journal-box and oil-cellar, Car-truck. G. G. Floyd. No. 1,026,979; May 21; Sp. p. 4181; Gaz. vol. 178; p. 714.
Journal-box, Car-axle. H. H. Hewitt. No. 1,020,423; Mar. 19; Sp. p. 2998; Gaz. vol. 176; p. 544.
Journal-box cooler. M. P. Cook. No. 1,020,188; Mar. 12; Sp. p. 2524; Gaz. vol. 176; p. 428.
Journal-box-cover fastener. B. S. Lawson. No. 1,048,323; Dec. 24; Gaz. vol. 185; p. 971.
Journal-box for rotary blowers. O. Banner. No. 1,044,971; Nov. 19; Gaz. vol. 184; p. 731.
Journal-box lid. E. G. Busse and P. B. Harrison. No. 1,014,047; Jan. 9; Sp. p. 2150; Gaz. vol. 174; p. 359.
Journal-box, Lubricant. C. H. McClasky. No. 1,019,814; Mar. 12; Sp. p. 1735; Gaz. vol. 176; p. 303.
Journal-box lubricant device. F. Loedige. No. 1,044,207; Nov. 12; Gaz. vol. 184; p. 437.
Journal-box of a car-truck to the truck side frame, Means for securing the. S. P. Bush. No. 1,014,565; Jan. 9; Sp. p. 3215; Gaz. vol. 174; p. 535.
Journal-box or attachment therefor. C. Wilhelmsen. No. 1,033,293; July 23; Gaz. vol. 180; p. 963.
Journal-box pedestal. G. M. Slack. No. 1,017,113; Feb. 13; Sp. p. 1971; Gaz. vol. 175; p. 339.
Journal-box pedestal. B. D. Lockwood. No. 1,020,619; June 18; Sp. p. 3362; Gaz. vol. 179; p. 598.
Journal-box-securing mechanism. A. O. Buckius, Jr. No. 1,023,809; Apr. 23; Sp. p. 4335; Gaz. vol. 177; p. 784.
Journal-box-securing mechanism. H. F. Pope. No. 1,024,456; Apr. 23; Sp. p. 5769; Gaz. vol. 177; p. 1003.
Journal-jack. G. C. Cline. No. 1,039,648; Sept. 24; Gaz. vol. 182; p. 928.
Journal-lubricator. R. H. Vesey. No. 1,020,167; Mar. 12; Sp. p. 2475; Gaz. vol. 176; p. 421.
Junction-box. W. S. Timmis. No. 1,013,972; Jan. 9; Sp. p. 1977; Gaz. vol. 174; p. 335.
Junction-box. T. E. Murray. No. 1,023,220; Apr. 16; Sp. p. 3167; Gaz. vol. 177; p. 567.
Junction-box. H. R. Gilson. No. 1,032,058; July 9; Gaz. vol. 180; p. 459.
Junction-box. W L. Bliss. No. 1,039,248; Sept. 24; Gaz. vol. 182; p. 789.
Junction-box cover. C. Wagner. No. 1,041,918; Oct. 22; Gaz. vol. 183; p. 861.
Kaleidoscope. W. N. McComb. No. 1,034,478; Aug. 6; Gaz. vol. 181; p. 25.
Keg, Metal. G. E. Mittinger, Jr. No. 1,045,055; Nov. 19; Gaz. vol. 184; p. 761.
Keg, Metallic. G. W. Berry. No. 1,032,372; July 16; Gaz. vol. 180; p. 612.
Keg-rinser. G. D. Prentice. No. 1,015,585; Jan. 23; Sp. p. 5508; Gaz. vol. 174; p. 942.
Keg-rinser. J. H. G. Zunner and A. Herrmann. No. 1,045,929; Dec. 3; Gaz. vol. 185; p. 46.
Keg, Sheet-steel. C. Stollberg. No. 1,015,355; Jan. 23; Sp. p. 5005; Gaz. vol. 174; p. 864.
Kegs, Air-inlet for beer-. A. Hahn. No. 1,013,158; Jan. 2; Sp. p. 141; Gaz. vol. 174; p. 24.
Kerosene-burner. J. Henning and H. A. Nelson. No. 1,037,003; Aug. 27; Gaz. vol. 181; p. 984.
Kerosene-burner regulator. H. Lemp. No. 1,024,209; Apr. 23; Sp. p. 5261; Gaz. vol. 177; p. 922.
Ketones, Manufacture of. J. Effront. No. 1,048,814; Dec. 31; Gaz. vol. 185; p. 1181.
Ketones of high boiling-points from acetone and homologues thereof, Producing. J. Hertkorn. No. 1,030,177; June 18; Sp. p. 4569; Gaz. vol. 179; p. 790.
Kettle, Renovating steam-. L. V. Willis. No. 1,044,112; Nov. 12; Gaz. vol. 184; p. 405.
Kettle-spout. A. R. Pritchard. No. 1,032,771; July 16; Gaz. vol. 180; p. 748.
Kettles and for other cooking utensils, Inside vessel for fish-. R. Ritzenhoff. No. 1,032,084; July 9; Gaz. vol. 180; p. 468.
Key: *See* Break-key; Camera winding-key; Lifting-key; Piano-key; Recording-key; Ringing-key; Service-box key; Switching-key; Telegraph-key; Type-writer key; Voting-machine key; Wedge-key; Wireless break-key;
Key. F. C. Eckert. No. 1,020,892; Mar. 19; Sp. p. 4010; Gaz. vol. 176; p. 699.
Key. E. von Vargyas. No. 1,022,900; Apr. 9; Sp. p. 2440; Gaz. vol. 177; p. 417.
Key. W. E. Bowersock. No. 1,029,663; June 18; Sp. p. 3450; Gaz. vol. 179; p. 613.
Key. W. M. Nordenhold and B. R. Wynkoop. No. 1,032,293; July 9; Gaz. vol. 180; p. 540.
Key. W. P. Moseley. No. 1,032,930; July 16; Gaz. vol. 180; p. 799.
Key-bits, Machine for cutting. B. Kotkovsky. No. 1,025,917; May 7; Sp. p. 1810; Gaz. vol. 178; p. 279.
Key-carrying device. F. A. Toce. No. 1,042,843; Oct. 29; Gaz. vol. 183; p. 1203.
Key-holder. M. Castholm. No. 1,038,722; Sept. 17; Gaz. vol. 182; p. 591.
Key-lock. L. B. Howard. No. 1,047,558; Dec. 10; Gaz. vol. 185; p. 474.
Key-opening can. F. Rudolphi and S. Tevander. No. 1,022,050; Apr. 2; Sp. p. 637; Gaz. vol. 177; p. 101.
Key-operated lock. F. Bisesi. No. 1,027,173; May 21; Sp. p. 4634; Gaz. vol. 178; p. 778.
Key-retaining device. G. E. Allen. No. 1,028,849; June 11; Sp. p. 1686; Gaz. vol. 179; p. 295.
Key-ring. W. C. Ford. No. 1,026,348; May 14; Sp. p. 2778; Gaz. vol. 178; p. 463.
Key-ring holder. H. Elder. No. 1,039,040; Sept. 17; Gaz. vol. 182; p. 697.
Key-seating machine. G. J. Costello. No. 1,038,855; Sept. 17; Gaz. vol. 182; p. 638.
Key-socket. E. H. Freeman. No. 1,016,136; Jan. 30; Sp. p. 6678; Gaz. vol. 174; p. 1160.
Key-socket. H. Hubbell. No. 1,048,167; Dec. 24; Gaz. vol. 185; p. 920.
Key-socket. H. Hubbell. No. 1,048,168; Dec. 24; Gaz. vol. 185; p. 920.
Keys, Bank of. C. A. Bals. No. 1,033,859; July 30; Gaz. vol. 180; p. 1175.
Keyboard-contact. C. E. Rowe. No. 1,036,724; Aug. 27; Gaz. vol. 181; p. 891.
Keyboard-machine-operating attachment. J. T. Schaaff. No. 1,046,865; Dec. 10; Gaz. vol. 185; p. 411.
Keyboard, Transposing-. P. Bialik. No. 1,043,504; Nov. 5; Gaz. vol. 184; p. 165.
Keyhole-guard. L. B. Howard. No. 1,038,754; Sept. 17; Gaz. vol. 182; p. 603.
Kiln: *See* Brick-kiln; Circular kiln; Dry-kiln; Drying-kiln; Limekiln; Lumber-drying kiln; Roasting-kiln; Sectional kiln; Tunnel-kiln.
Kiln. T. J. Dugan. No. 1,033,162; July 23; Gaz. vol. 180; p. 917.
Kiln. C. Hook. No. 1,037,769; Sept. 3; Gaz. vol. 182; p. 198.
Kiln-cleaner. L. P. Ross. No. 1,014,258; Jan. 9; Sp. p. 2601; Gaz. vol. 174; p. 434.
Kiln rings, Disintegrating nodulizer-. J. W. Shook. No. 1,035,754; Aug. 13; Gaz. vol. 181; p. 487.
Kilns, &c., Burner for rotary. P. T. Lindhard. No. 1,042,576; Oct. 29; Gaz. vol. 183; p. 1111.
Kilns, &c., Wall construction for. E. Ruebel. No. 1,040,422; Oct. 8; Gaz. vol. 183; p. 282.
Kindergarten-table. A. G. Robbins. No. 1,018,373; Feb. 20; Sp. p. 4721; Gaz. vol. 175; p. 808.
Kindling device. C. Wilhelm and J. B. Goetz. No. 1,043,986; Nov. 12; Gaz. vol. 184; p. 362.
Kindling device. C. W. Brown. No. 1,044,131; Nov. 12; Gaz. vol. 184; p. 410.
Kinematograph and like films, Means for cleaning. A. B. Seaborne. No. 1,022,510; Apr. 9; Sp. p. 1592; Gaz. vol. 177; p. 285.
Kinematograph-films and projecting such pictures to their normal proportions, Reducing the size of pictures on. E. Zollinger. No. 1,032,172; July 9; Gaz. vol. 180; p. 498.
Kinematograph-films, Cutting out contour-bands used in coloring. C. Sciamengo. No. 1,036,730; Aug. 27; Gaz. vol. 181; p. 891.
Kinematograph-films, Method of and device for cutting out contour-bands used in coloring. C. Sciamengo. No. 1,022,270; Apr. 2; Sp. p. 1087; Gaz. vol. 177; p. 174.
Kinematograph-films, Producing. B. K. and T. Brown. No. 1,034,192; July 30; Gaz. vol. 180; p. 1292.
Kinematographs and sound-production apparatus, Apparatus for synchronously operating combined. C. M. Hepworth. No. 1,023,846; Apr. 23; Sp. p. 4434; Gaz. vol. 177; p. 796.

Alphabetical list of inventions—Continued.

Kinematographs and talking-machines, Film and method of synchronizing the operation of. J. Greenbaum. No. 1,027,248; May 21; Sp. p. 4785; Gaz. vol. 178; p. 806.
Kinematographs, Registering device for. E. A. Ivatts. No. 1,018,827; Feb. 27; Sp. p. 5775; Gaz. vol. 175; p. 997.
Kinematographic apparatus, Lens-diaphragm-controlling device for. E. A. Ivatts. No. 1,029,997; June 18; Sp. p. 4199; Gaz. vol. 179; p. 728.
Kinematographic films and the like, Producing printed copies of. L. Sohier. No. 1,028,296; June 4; Sp. p. 509; Gaz. vol. 179; p. 74.
Kinematographic films, Apparatus for coloring. L. Gaumont. No. 1,035,433; Aug. 13; Gaz. vol. 181; p. 380.
Kinematographic films, Protecting. I. Kitsee. No. 1,042,801; Oct. 29; Gaz. vol. 183; p. 1190.
Kinetoscope. J. A. Le Roy. No. 1,027,135; May 21; Sp. p. 4566; Gaz. vol. 178; p. 767.
Kinetoscope. E. P. Hopkins. No. 1,027,731; May 28; Sp. p. 5766; Gaz. vol. 178; p. 1004.
Kinetoscope. O. P. M. Davis. No. 1,036,462; Aug. 20; Gaz. vol. 181; p. 770.
Kinetoscope. A. C. Roebuck. No. 1,037,325; Sept. 3; Gaz. vol. 182; p. 49.
Kinetoscope. E. S. Porter. No. 1,041,345; Oct. 15; Gaz. vol. 183; p. 631.
Kinetoscope. C. B. Stilwell. No. 1,045,905; Dec. 3; Gaz. vol. 185; p. 38.
Kinetoscope-belts, Making. A. Pettenkofer. No. 1,048,427; Dec. 24; Gaz. vol. 185; p. 1005.
Kitchen-boiler, Combination. J. Antonuccio. No. 1,035,514; Aug. 13; Gaz. vol. 181; p. 407.
Kitchen-cabinet. M. C. Powell. No. 1,032,861; July 16; Gaz. vol. 180; p. 778.
Kitchen utensil, Combination. J. Kirchmer, Jr. No. 1,035,198; Aug. 13; Gaz. vol. 181; p. 297.
Kite. J. P. Buengers. No. 1,014,369; Jan. 9; Sp. p. 2859; Gaz. vol. 174; p. 473.
Kite. O. Seydel. No. 1,016,180; Jan. 30; Sp. p. 6751; Gaz. vol. 174; p. 1173.
Kite. E. E. Thayer. No. 1,021,278; Mar. 26; Sp. p. 4829; Gaz. vol. 176; p. 881.
Kite. H. P. Guillo. No. 1,029,010; June 11; Sp. p. 2056; Gaz. vol. 179; p. 353.
Kite, Biplane. O. Beth. No. 1,022,293; Apr. 2; Sp. p. 1134; Gaz. vol. 177; p. 181.
Kite flying-machine, Motor-. G. W. Schultz. No. 1,043,147; Nov. 5; Gaz. vol. 184; p. 35.
Knapsack and carrier therefor. J. Renard. No. 1,040,413; Oct. 8; Gaz. vol. 183; p. 279.
Kneading-machine. F. Aeschbach. No. 1,044,967; Nov. 19; Gaz. vol. 184; p. 730.
Knife: *See* Blade-protecting knife; Brush-cutting knife; Cling-knife; Combination-knife; Excelsior-knife; Meat cutting and mincing machine knife; Orange-knife; Paring-knife; Pocket-knife; Pruning-knife; Shoemaker's knife; Tobacco-knife; Toothpick-cutting knife.
Knife. J. C. Owens. No. 1,013,844; Jan. 2; Sp. p. 1658; Gaz. vol. 174; p. 263.
Knife. F. Marzak. No. 1,037,648; Sept. 3; Gaz. vol. 182; p. 158.
Knife. J. E. Buck. No. 1,040,138; Oct. 1; Gaz. vol. 183; p. 157.
Knife. P. H. Unsinger. No. 1,044,303; Nov. 12; Gaz. vol. 184; p. 470.
Knife. J. M. Quigley. No. 1,047,445; Dec. 17; Gaz. vol. 185; p. 642.
Knife. J. A. Harriss. No. 1,047,629; Dec. 17; Gaz. vol. 185; p. 708.
Knife and fork, Combination pocket. J. Yakligian. No. 1,030,756; June 25; Sp. p. 6095; Gaz. vol. 179; p. 1036.
Knife and saw, Combined. O. Raade. No. 1,047,838; Dec. 17; Gaz. vol. 185; p. 782.
Knife-blade-squaring machine. T. R. Moore. No. 1,046,627; Dec. 10; Gaz. vol. 185; p. 328.
Knife-blades to their handles, Attachment of. F. Hoppe. No. 1,043,699; Nov. 5; Gaz. vol. 184; p. 230.
Knife-cleaner. C. A. Wild. No. 1,024,541; Apr. 30; Sp. p. 6020; Gaz. vol. 177; p. 1070.
Knife-cleaning machine. E. W. Kottusch. No. 1,033,908; July 30; Gaz. vol. 180; p. 1192.
Knife-guard. P. Renner. No. 1,020,055; Mar. 12; Sp. p. 2228; Gaz. vol. 176; p. 384.
Knife mounting, Stationary-. L. Brown. No. 1,029,168; June 11; Sp. p. 2385; Gaz. vol. 179; p. 406.
Knife-rack. A. S. Kinsley. No. 1,014,487; Jan. 9; Sp. p. 3075; Gaz. vol. 174; p. 511.
Knife-switch, Self-locking. C. J. Embree. No. 1,047,772; Dec. 17; Gaz. vol. 185; p. 759.
Knives, Tweezer attachment for. W. L. Wulff. No. 1,046,361; Dec. 3; Gaz. vol. 185; p. 196.
Knitted collar for garments. G. O. Sanborn. No. 1,021,071; Mar. 26; Sp. p. 4383; Gaz. vol. 176; p. 813.
Knitted fabric. G. W. Cummings. No. 1,027,696; May 28; Sp. p. 5702; Gaz. vol. 178; p. 994.
Knitted fabric. M. G. Rosenthal. No. 1,029,636; June 18; Sp. p. 3390; Gaz. vol. 179; p. 604.
Knitted fabric. R. W. Scott. No. 1,035,751; Aug. 13; Gaz. vol. 181; p. 486.
Knitted fabric and hosiery made therefrom. R. W. Scott. No. 1,018,134; Feb. 20; Sp. p. 4233; Gaz. vol. 175; p. 727.
Knitted trimming. S. N. Goodman. No. 1,030,996; July 2; Gaz. vol. 180; p. 51.
Knitted undergarment. H. Swinglehurst. No. 1,045,635; Nov. 26; Gaz. vol. 184; p. 994.
Knitted web and making same, Selvaged. R. W. Scott. No. 1,045,621; Nov. 26; Gaz. vol. 184; p. 989.
Knitted web and making same, Welted. R. W. Scott. No. 1,045,620; Nov. 26; Gaz. vol. 184; p. 989.
Knitted web and stocking made therefrom. L. A. Costello. No. 1,025,125; May 7; Sp. p. 30; Gaz. vol. 178; p. 6.
Knitted webs, Improving the texture of. J. D. Morley. No. 1,035,031; Aug. 6; Gaz. vol. 181; p. 209.
Knitted webs, Machine for running on. W. D. Butz. No. 1,035,081; Aug. 6; Gaz. vol. 181; p. 226.
Knitting. B. Wessell. No. 1,038,043; Sept. 10; Gaz. vol. 182; p. 324.
Knitting a full-fashioned blank for a stocking. K. Nebel. No. 1,048,572; Dec. 31; Gaz. vol. 185; p. 1094.
Knitting frame, Straight-. B. Salzer and G. Walther. No. 1,023,763; Apr. 16; Sp. p. 4208; Gaz. vol. 177; p. 739.
Knitting-machine. W. F. Rolston. No. 1,016,233; Jan. 30; Sp. p. 6854; Gaz. vol. 174; p. 1191.
Knitting-machine. A. C. Timming. No. 1,017,705; Feb. 20; Sp. p. 3206; Gaz. vol. 175; p. 576.
Knitting-machine. F. Walters. No. 1,018,144; Feb. 20; Sp. p. 4257; Gaz. vol. 175; p. 731.
Knitting-machine. R. Hutchinson. No. 1,021,678; Mar. 26; Sp. p. 5651; Gaz. vol. 176; p. 1017.
Knitting-machine. E. A. Hirner. No. 1,023,312; Apr. 16; Sp. p. 3353; Gaz. vol. 177; p. 598.
Knitting-machine. W. W. Burson. No. 1,025,182; May 7; Sp. p. 160; Gaz. vol. 178; p. 27.
Knitting-machine. W. A. Ingalls. No. 1,025,470; May 7; Sp. p. 812; Gaz. vol. 178; p. 126.
Knitting-machine. H. A. Houseman. No. 1,025,980; May 14; Sp. p. 1940; Gaz. vol. 178; p. 335.
Knitting-machine. E. A. Hirner. No. 1,026,206; May 14; Sp. p. 2466; Gaz. vol. 178; p 414.
Knitting-machine. J. S. Crane. No. 1,027,034; May 21; Sp. p. 4321; Gaz. vol. 178; p. 734.
Knitting-machine. E. Dubied. No. 1,029,494; June 11; Sp. p. 3089; Gaz. vol. 179; p. 518.
Knitting-machine. A. M. Pigeon. No. 1,034,032; July 30; Gaz. vol. 180; p. 1238.
Knitting-machine. R. W. Scott. No. 1,034,521; Aug. 6; Gaz. vol. 181; p. 41.
Knitting-machine. H. Swinglehurst. No. 1,035,656; Aug. 13; Gaz. vol. 181; p. 455.
Knitting-machine. B. Wessell. No. 1,038,044; Sept. 10; Gaz. vol. 182; p. 324.
Knitting-machine. E. Paquette. No. 1,038,638; Sept. 17; Gaz. vol. 182; p. 562.
Knitting-machine. J. Lawson. No. 1,045,570; Nov. 26; Gaz. vol. 184; p. 970.
Knitting-machine. W. W. Burson. No. 1,046,147; Dec. 3; Gaz. vol. 185; p. 120.
Knitting machine, Circular-. W. T. Barratt. No. 1,013,471; Jan. 2; Sp. p. 832; Gaz. vol. 174; p. 133.
Knitting machine, Circular-. E. E. Kilbourn. No. 1,018,063; Feb 20; Sp. p. 4077; Gaz. vol. 175; p. 703.
Knitting machine, Circular-. E. Haaga. No. 1,019,632; Mar. 5; Sp. p. 1385; Gaz. vol. 176; p. 211.
Knitting machine, Circular-. E. H. Walker. No. 1,034,665; Aug. 6; Gaz. vol. 181; p. 87.
Knitting machine, Circular-. A. Gagné and J. W. Shaw. No. 1,040,183; Oct. 1; Gaz. vol. 183; p. 171.
Knitting machine, Circular-. E. E. Kilbourn. No. 1,044,537; Nov. 19; Gaz. vol. 184; p. 580.
Knitting machine, Circular-. R. W. Scott. No. 1,047,712; Dec. 17; Gaz. vol. 185; p. 738.
Knitting machine, Circular-. F. Wilcomb. No. 1,049,020; Dec. 31; Gaz. vol. 185; p. 1251.
Knitting-machine dial. H. Swinglehurst. No. 1,025,169; May 7; Sp. p. 130; Gaz. vol. 178; p. 23.
Knitting-machine drop-stitch mechanism. F. W. Robinson. No. 1,021,799; Apr. 2; Sp. p. 94; Gaz. vol. 177; p. 19
Knitting-machine, Fashioning. E. J. Franck. No. 1,046,764; Dec. 10; Gaz. vol. 185; p. 378.
Knitting-machine, Flat-bed. E. Dubied. No. 1,015,668; Jan. 23; Sp. p. 5683; Gaz. vol. 174; p. 971.
Knitting-machine latch-needle. R. W. Scott. No. 1,039,450; Sept. 24; Gaz. vol. 182; p. 857.
Knitting-machine needle. L. N. D. Williams. No. 1,015,108; Jan. 16; Sp. p. 4478; Gaz. vol. 174; p. 754.
Knitting-machine needle. L. N. D. Williams. No. 1,015,109; Jan. 16; Sp. p. 4480; Gaz. vol. 174; p. 754.
Knitting-machine needle. R. W. Scott. No. 1,035,752; Aug. 13; Gaz. vol. 181; p. 486.
Knitting-machine needle-actuating mechanism. H. H. West. No. 1,045,651; Nov. 26; Gaz. vol. 184; p. 999.
Knitting machine, Rib-. J. D. Morley. No. 1,039,990; Oct. 1; Gaz. vol. 183; p. 106.
Knitting-machine splicing mechanism. W. N. Taggart. No. 1,044,943; Nov. 19; Gaz. vol. 184; p. 721.
Knitting-machine stitch-length mechanism. J. L. MacAdams. No. 1,030,100; June 18; Sp. p. 4430; Gaz. vol. 179; p. 765.

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Knitting machine, Stocking-. G. E. Cottrell and S. L. Shippey. No. 1,034,346; July 30; Gaz. vol. 180; p. 1345.
Knitting machine, Straight-. W. F. Rolston. No. 1,016,232; Jan. 30; Sp. p. 6852; Gaz. vol. 174; p. 1191.
Knitting machine, Straight-. K. Nebel. No. 1,033,723; July 23; Gaz. vol. 180; p. 1102.
Knitting-machine tension mechanism. J. D. Morley. No. 1,039,989; Oct. 1; Gaz. vol. 183; p. 105.
Knitting-machine web-cutter, Circular-. W. Raven. No. 1,048,879; Dec. 31; Gaz. vol. 185; p. 1201.
Knitting-machine web-holder. J. D. Hemphill. No. 1,048,965; Dec. 31; Gaz. vol. 185; p. 1231.
Knitting machine, Welt-. F. B. Wildman and G. L. Ballard. No. 1,047,355; Dec. 17; Gaz. vol. 185; p. 613.
Knitting-machine yarn-feed device. A. M. Pigeon. No. 1,026,176; May 14; Sp. p. 2387; Gaz. vol. 178; p. 403.
Knitting-machine yarn-feeding device. A. M. Pigeon. No. 1,026,175; May 14; Sp. p. 2384; Gaz. vol. 178; p. 402.
Knitting machines, Automatic take-up device for flat-. C. Goebel. No. 1,022,233; Apr. 2; Sp. p. 1025; Gaz. vol. 177; p. 163.
Knitting-machines for ornamenting hosiery, Attachment to. A. Gee. No. 1,014,753; Jan. 16; Sp. p. 3698; Gaz. vol. 174; p. 631.
Knitting machines, Sectional plating device for straight-. P. Guenther. No. 1,018,612; Feb. 27; Sp. p. 5314; Gaz. vol. 175; p. 922.
Knitting-machines, Sinker-actuating means for revoluble-cylinder. J. D. Hemphill. No. 1,015,733; Jan. 23; Sp. p. 5825; Gaz. vol. 174; p. 993.
Knitting machines, Stop-motion for circular-. H. McCrudden. No. 1,031,860; July 9; Gaz. vol. 180; p. 394.
Knitting-machines, Yarn-supplying device for. H. Swinglehurst. No. 1,035,657; Aug. 13; Gaz. vol. 181; p. 455.
Knitting-needle. H. Heaton. No. 1,022,238; Apr. 2; Sp. p. 1034; Gaz. vol. 177; p. 165.
Knitting-needle, Latch. A. Korndoerfer, Jr. No. 1,032,613; July 16; Gaz. vol. 180; p. 691.
Knitting seamless plated hosiery. E. A. Hirner. No. 1,023,313; Apr. 16; Sp. p. 3356; Gaz. vol. 177; p. 599.
Knob. H. G. Collins. No. 1,026,148; May 14; Sp. p. 2334; Gaz. vol. 178; p. 394.
Knob, Alarm door-. F. Colounese and C. Boccia. No. 1,030,841; June 25; Sp. p. 6417; Gaz. vol. 179; p. 1068.
Knob, Cover-. J. F. Foster. No. 1,026,307; May 14; Sp. p. 2684; Gaz. vol. 178; p. 449.
Knob, Drawer-. R. S. Boudrot. No. 1,016,392; Feb. 6; Sp. p. 345; Gaz. vol. 175; p. 55.
Knob night-lock. D. S. Ackerman. No. 1,048,784; Dec. 31; Gaz. vol. 185; p. 1169.
Knob-shanks to spindles, Means for securing. T. E. Crouch. No. 1,026,497; May 14; Sp. p. 3102; Gaz. vol. 178; p. 512.
Knob-spindle and lock. R. Schoell. No. 1,044,262; Nov. 12; Gaz. vol. 184; p. 456.
Knob spindle, Swivel-. F. J. Spring. No. 1,015,765; Jan. 23; Sp. p. 5891; Gaz. vol. 174; p. 1004.
Knockdown bin or tank. M. V. Hostetter. No. 1,024,133; Apr. 23; Sp. p. 5090; Gaz. vol. 177; p. 895.
Knockdown box. R. E. L. Crosby. No. 1,015,425; Jan. 23; Sp. p. 5160; Gaz. vol. 174; p. 887.
Knockdown box. J. J. Long. No. 1,022,098; Apr. 2; Sp. p. 731; Gaz. vol. 177; p. 117.
Knockdown box. B. L. Behrendt. No. 1,040,492; Oct. 8; Gaz. vol. 183; p. 305.
Knockdown box. C. Neubel. No. 1,041,333; Oct. 15; Gaz. vol. 183; p. 627.
Knockdown box. H. B. Walter. No. 1,045,648; Nov. 26; Gaz. vol. 184; p. 999.
Knockdown box and crate. H. M. Alderfer. No. 1,017,194; Feb. 13; Sp. p. 2148; Gaz. vol. 175; p. 367.
Knockdown stand. J. H. Astruck. No. 1,043,387; Nov. 5; Gaz. vol. 184; p. 122.
Knockdown stand or table. H. Judge. No. 1,026,748; May 21; Sp. p. 3642; Gaz. vol. 178; p. 633.
Knockdown stand, stool, or the like. J. F. L. Uhl. No. 1,023,181; Apr. 16; Sp. p. 3094; Gaz. vol. 177; p. 553.
Knockdown table. C. D. Kreider. No. 1,028,741; June 4; Sp. p. 1459; Gaz. vol. 179; p. 225.
Knockdown tank. P. C. Ickes. No. 1,019,255; Mar. 5; Sp. p. 545; Gaz. vol. 176; p. 87.
Knot-tier. V. S. Westcott. No. 1,024,873; Apr. 30; Sp. p. 6745; Gaz. vol. 177; p. 1187.
Knot-tier. J. T. Dalton and J. C. Daneker. No. 1,041,039; Oct. 15; Gaz. vol. 183; p. 527.
Knot-tier, Hand. W. Renfrew. No. 1,041,163; Oct. 15; Gaz. vol. 183; p. 570.
Knot-tying apparatus. N. S. Brown and J. Maloney. No. 1,046,959; Dec. 10; Gaz. vol. 185; p. 442.
Knot-tying mechanism. H. D. Colman. No. 1,029,853; June 18; Sp. p. 3905; Gaz. vol. 179; p. 680.
Knotter. R. B. Bryan. No. 1,033,669; July 23; Gaz. vol. 180; p. 1085.
Knuckle-pin retainer. J. Kelso. No. 1,020,952; Mar. 19; Sp. p. 4131; Gaz. vol. 176; p. 720.
Kraut-pack. E. H. Brunner. No. 1,044,341; Nov. 12; Gaz. vol. 184; p. 484.
L. W. H. Perkins. No. 1,025,642; May 7; Sp. p. 1202; Gaz. vol. 178; p. 185.
Label. W. P. MacDonald. No. 1,013,299; Jan. 2; Sp. p. 474; Gaz. vol. 174; p. 74.
Label. M. C. Moran. No. 1,020,305; Mar. 12; Sp. p. 2751; Gaz. vol. 176; p. 466.
Label-affixing mechanism. F. O. Woodland. No. 1,045,241; Nov. 26; Gaz. vol. 184; p. 855.
Label-applying machine. H. F. Maynes. No. 1,019,719; Mar. 5; Sp. p. 1538; Gaz. vol. 176; p. 239.
Label-holder. J. F. Arnold. No. 1,020,175; Mar. 12; Sp. p. 2491; Gaz. vol. 176; p. 425.
Label-holder. J. H. Stoddard. No. 1,044,704; Nov. 19; Gaz. vol. 184; p. 639.
Label-paster. W. P. Sargent. No. 1,048,214; Dec. 24; Gaz. vol. 185; p. 935.
Label, Poison-bottle. C. C. Bruner. No. 1,031,520; July 2; Gaz. vol. 180; p. 233.
Labels and the like, Roll-holder for. E. F. Connors and T. N. Barnsdall, 2d. No. 1,029,490; June 11; Sp. p. 3082; Gaz. vol. 179; p. 517.
Labels to cans or the like, Machine for applying. F. H. Knapp. No. 1,038,153; Sept. 10; Gaz. vol. 182; p. 360.
Labeler, Can-. W. A. Eastham. No. 1,025,613; May 7; Sp. p. 1128; Gaz. vol. 178; p. 175.
Labeling attachment for carton-crimping machines. G. W. Beadle. No. 1,026,554; May 14; Sp. p. 3205; Gaz. vol. 178; p. 530.
Labeling device, Bottle-. S. B. Goff. No. 1,048,680; Dec. 31; Gaz. vol. 185; p. 1134.
Labeling-machine. L. C. Palmer. No. 1,019,351; Mar. 5; Sp. p. 778; Gaz. vol. 176; p. 119.
Labeling-machine. F. O. Woodland. No. 1,023,911; Apr. 23; Sp. p. 4594; Gaz. vol. 177; p. 818.
Labeling-machine. F. O. Woodland. No. 1,027,959; May 28; Sp. p. 6292; Gaz. vol. 178; p. 1081.
Labeling-machine. A. T. Weiss. No. 1,029,900; June 18; Sp. p. 4001; Gaz. vol. 179; p. 696.
Labeling-machine. H. E. Brown. No. 1,032,042; July 9; Gaz. vol. 180; p. 454.
Labeling-machine. L. C. Palmer. No. 1,034,640; Aug. 6; Gaz. vol. 181; p. 78.
Labeling-machine. P. S. Smith. No. 1,035,914; Aug. 20; Gaz. vol. 181; p. 580.
Labeling-machine. C. H. Ohlsson. No. 1,037,971; Sept. 10; Gaz. vol. 182; p. 301.
Labeling-machine. W. Robertson. No. 1,038,658; Sept. 17; Gaz. vol. 182; p. 568.
Labeling-machine. F. W. Wild, Jr. No. 1,041,390; Oct. 15; Gaz. vol. 183; p. 646.
Labeling-machine. F. W. Wild, Jr. No. 1,041,542; Oct. 15; Gaz. vol. 183; p. 696.
Labeling-machine. F. W. Wild, Jr. No. 1,041,543; Oct. 15; Gaz. vol. 183; p. 697.
Labeling machine, Bottle-. E. Ermold. No. 1,023,143; Apr. 16; Sp. p. 3003; Gaz. vol. 177; p. 540.
Labeling machine, Bottle-. H. G. Muench. No. 1,047,550; Dec. 17; Gaz. vol. 185; p. 680.
Labeling machine, Can-. T. Nishida. No. 1,018,398; Feb. 20; Sp. p. 4781; Gaz. vol. 175; p. 818.
Labeling machine, Can-. G. E. Kastengren. No. 1,044,393; Nov. 12; Gaz. vol. 184; p. 500.
Labeling-machine picker. F. O. Woodland. No. 1,048,781; Dec. 31; Gaz. vol. 185; p. 1168.
Labeling machine, Tag-. F. Kohnle. No. 1,028,226; June 4; Sp. p. 370; Gaz. vol. 179; p. 52.
Lac, Treating. J. Johannes. No. 1,024,783; Apr. 30; Sp. p. 6557; Gaz. vol. 177; p. 1155.
Lace fabric. H. Buscher. No. 1,024,247; Apr. 23; Sp. p. 5348; Gaz. vol. 177; p. 937.
Lace fastener, Shoe-. A. E. Franz. No. 1,018,557; Feb. 27; Sp. p. 5212; Gaz. vol. 175; p. 906.
Lace fastener, Shoe-. T. J. Shawver. No. 1,049,158; Dec. 31; Gaz. vol. 185; p. 1297.
Lace guard, Shoe-. F. Coit. No. 1,039,030; Sept. 17; Gaz. vol. 182; p. 695.
Lace guide, Boot and shoe. A. F. von Gillern. No. 1,024,888; Apr. 30; Sp. p. 6771; Gaz. vol. 177; p. 1191.
Lace-holder. N. M. De Lany. No. 1,048,051; Dec. 24; Gaz. vol. 185; p. 880.
Lace insertion. G. Kant. No. 1,033,178; July 23; Gaz. vol. 180; p. 923.
Lace machinery, Bobbin-carriage and bobbin of. W. B. Mitchell. No. 1,015,333; Jan. 23; Sp. p. 4964; Gaz. vol. 174; p. 856.
Lace-making machine. W. Bisdorf. No. 1,032,373; July 16; Gaz. vol. 180; p. 612.
Lace-making machine. A. Matitsch. No. 1,036,872; Aug. 27; Gaz. vol. 181; p. 941.
Lace-making machine. F. Holzichter. No. 1,042,003; Oct. 22; Gaz. vol. 183; p. 889.
Lace protector, Shoe-. J. E. Wilson. No. 1,043,888; Nov. 12; Gaz. vol. 184; p. 327.
Lace-rod bracket. F. W. Drish. No. 1,035,329; Aug. 13; Gaz. vol. 181; p. 343.
Lace roller, Shoe-. A. B. Overholt. No. 1,015,583; Jan. 23; Sp. p. 5506; Gaz. vol. 174; p. 942.
Laces, Machine for tipping. E. A. Gallison. No. 1,030,513; June 25; Sp. p. 5378; Gaz. vol. 179; p. 949.
Laces, Machine for tipping. E. A. Gallison. No. 1,030,514; June 25; Sp. p. 5385; Gaz. vol. 179; p. 950.

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Lacing. S. W. Wardwell. No. 1,045,919; Dec. 3; Gaz. vol. 185; p. 43.
Lacing device, Shoe-. H. B. Woods. No. 1,022,808; Apr. 9; Sp. p. 2265; Gaz. vol. 177; p. 387.
Lacing for leather belting, Machine for making coiled eyelet-. J. C. Simmons and L. Berzon. No. 1,021,431; Mar. 26; Sp. p. 5168; Gaz. vol. 176; p. 935.
Lacing-guide for shoes, corsets, &c., Curved. A. F. von Gillern. No. 1,031,061; July 2; Gaz. vol. 180; p. 76.
Lacing-hook for boots and the like. B. G. Clark. No. 1,019,024; Mar. 5; Sp. p. 20; Gaz. vol. 176; p. 6.
Lacing-hook-inserting machine. F. W. Luscomb. No. 1,035,981; Aug. 20; Gaz. vol. 181; p. 601.
Lacing-hook-setting machine. W. H. Kingston. (Reissue.) No. 13,461; Aug. 27; Gaz. vol. 181; p. 1046.
Lacing-hooks, Machine for making. G. Goddu. No. 1,030,725; June 25; Sp. p. 6009; Gaz. vol. 179; p. 1025.
Lacing-machine. A. M. Alexander. No. 1,030,559; June 25; Sp. p. 5501; Gaz. vol. 179; p. 965.
Lacing-machine. W. A. Smith. No. 1,030,753; June 25; Sp. p. 6080; Gaz. vol. 179; p. 1035.
Lacing shoe-uppers, Machine for. W. A. Smith. No. 1,030,547; June 25; Sp. p. 5466; Gaz. vol. 179; p. 961.
Lacing shoe-uppers, Machine for. H. E. Enslin. No. 1,030,573; June 25; Sp. p. 5566; Gaz. vol. 179; p. 970.
Lacing shoe-uppers, Mechanism for automatically. W. A. Smith. No. 1,030,935; July 2; Gaz. vol. 180; p. 29.
Lacing tool, Belt-. C. H. Metz. No. 1,020,214; Mar. 12; Sp. p. 2581; Gaz. vol. 176; p. 438.
Lacing uppers, Machine for. C. S. Wells and W. W. Darnill. No. 1,030,553; June 25; Sp. p. 5488; Gaz. vol. 179; p. 963.
Lacings, Making tipped. E. A. Gallison. No. 1,040,662; Oct. 8; Gaz. vol. 183; p. 370.
Ladder. J. E. Forndran. No. 1,014,215; Jan. 9; Sp. p. 2487; Gaz. vol. 174; p. 418.
Ladder. M. Bauer. No. 1,015,123; Jan. 16; Sp. p. 4508; Gaz. vol. 174; p. 759.
Ladder. L. F. Reichardt. No. 1,021,629; Mar. 26; Sp. p. 5573; Gaz. vol. 176; p. 1001.
Ladder. P. E. Vierheller. No. 1,024,380; Apr. 23; Sp. p. 5576; Gaz. vol. 177; p. 978.
Ladder. C. E. Dillon and L. Savage. No. 1,028,004; May 28; Sp. p. 6396; Gaz. vol. 178; p. 1097.
Ladder. B. F. Forsyth. No. 1,031,110; July 2; Gaz. vol. 180; p. 93.
Ladder. H. S. Thompson. No. 1,036,932; Aug. 27; Gaz. vol. 181; p. 959.
Ladder. W. E. Wine. No. 1,040,083; Oct. 1; Gaz. vol. 183; p. 138.
Ladder. W. F. McStay. No. 1,044,407; Nov. 12; Gaz. vol. 184; p. 506.
Ladder and bench, Combination step-. C. Goetter. No. 1,021,094; Mar. 26; Sp. p. 4429; Gaz. vol. 176; p. 820.
Ladder and ironing-board, Combined step-. C. O. Orwig. No. 1,035,998; Aug. 20; Gaz. vol. 181; p. 606.
Ladder attachment. S. E. Eskew. No. 1,033,685; July 23; Gaz. vol. 180; p. 1089.
Ladder attachment. B. G. Larson. No. 1,047,251; Dec. 17; Gaz. vol. 185; p. 573.
Ladder-base. W. Rogers. No. 1,016,177; Jan. 30; Sp. p. 6747; Gaz. vol. 174; p. 1173.
Ladder, Box-car. O. Anderson. No. 1,022,765; Apr. 9; Sp. p. 2179; Gaz. vol. 177; p. 373.
Ladder-bracket. W. Walker. No. 1,045,099; Nov. 19; Gaz. vol. 184; p. 776.
Ladder-brad. F. W. Chickering. No. 1,015,940; Jan. 30; Sp. p. 6265; Gaz. vol. 174; p. 1091.
Ladder, Car-. W. S. Schroeder. No. 1,024,654; Apr. 30; Sp. p. 6290; Gaz. vol. 177; p. 1108.
Ladder, Combination-. H. C. Reed. No. 1,013,515; Jan. 2; Sp. p. 924; Gaz. vol. 174; p. 148.
Ladder, Combination step-. R. F. Blair. No. 1,035,770; Aug. 13; Gaz. vol. 181; p. 492.
Ladder, Combined step and extension. E. N. Botsford. No. 1,026,147; May 14; Sp. p. 2333; Gaz. vol. 178; p. 394.
Ladder, Combined step and extension. J. E. Duncan. No. 1,028,691; June 4; Sp. p. 1338; Gaz. vol. 179; p. 208.
Ladder, Extensible. L. S. Putman. No. 1,031,818; July 9; Gaz. vol. 180; p. 379.
Ladder, Extension-. F. A. Drummond. No. 1,044,152; Nov. 12; Gaz. vol. 184; p. 417.
Ladder, Extension step-. B. A. Handy. No. 1,040,313; Oct. 8; Gaz. vol. 183; p. 246.
Ladder, Flexible. E. V. Bridge. No. 1,044,010; Nov. 12; Gaz. vol. 184; p. 370.
Ladder, Folding step-. L. O. Garraway. No. 1,033,391; July 23; Gaz. vol. 180; p. 995.
Ladder-foot. E. C. Magoon. No. 1,025,474; May 7; Sp. p. 820; Gaz. vol. 178; p. 128.
Ladder for gathering fruit, Portable. W. E. Swengel. No. 1,015,652; Jan. 23; Sp. p. 5655; Gaz. vol. 174; p. 966.
Ladder, Fruit-gatherer's and painter's. W. R. Irby. No. 1,014,063; Jan. 9; Sp. p. 2179; Gaz. vol. 174; p. 365.
Ladder-hook. F. W. Chickering. No. 1,018,877; Feb. 27; Sp. p. 5868; Gaz. vol. 175; p. 1012.
Ladder-hook, Detachable. H. M. Lucas. No. 1,030,905; July 2; Gaz. vol. 180; p. 19.
Ladder hook, Extension-. F. H. Moulton. No. 1,045,165; Nov. 26; Gaz. vol. 184; p. 827.
Ladder, Stairway-. J. H. Erskine. No. 1,019,444; Mar. 5; Sp. p. 1016; Gaz. vol. 176; p. 149.
Ladder-support. J. W. Johnson. No. 1,027,546; May 28; Sp. p. 5392; Gaz. vol. 178; p. 944.
Ladder-support for silos, Revolving. C. E. Hedrick. No. 1,045,840; Dec. 3; Gaz. vol. 185; p. 16.
Ladder, Truck extension-. C. Gary and J. E. Marshall. No. 1,035,570; Aug. 13; Gaz. vol. 181; p. 427.
Ladder, Wheeled. A. C. Chmidling and J. W. Tincher. No. 1,017,382; Feb. 13; Sp. p. 2545; Gaz. vol. 175; p. 431.
Ladders, Balcony for fire-. T. F. Dougherty. No. 1,013,751; Jan. 2; Sp. p. 1460; Gaz. vol. 174; p. 231.
Lag. H. H. Boyer. No. 1,036,432; Aug. 20; Gaz. vol. 181; p. 760.
Lakes, Manufacture of. E. Ulrichs. No. 1,014,539; Jan. 9; Sp. p. 3167; Gaz. vol. 174; p. 527.
Lakes, Manufacture of. E. Ulrichs. No. 1,022,612; Apr. 9; Sp. p. 1819; Gaz. vol. 177; p. 318.
Lamp. W. Agnew. No. 1,013,356; Jan. 2; Sp. p. 591; Gaz. vol. 174; p. 94.
Lamp. E. H. Ford. No. 1,013,542; Jan. 2; Sp. p. 986; Gaz. vol. 174; p. 158.
Lamp. G. E. Neil. No. 1,013,947; Jan. 9; Sp. p. 1919; Gaz. vol. 174; p. 326.
Lamp. E. E. Taylor. No. 1,015,219; Jan. 16; Sp. p. 4678; Gaz. vol. 174; p. 789.
Lamp. W. S. Hamm. No. 1,018,187; Feb. 20; Sp. p. 4353; Gaz. vol. 175; p. 747.
Lamp. F. L. Godinez and A. J. Marshall. No. 1,019,246; Mar. 5; Sp. p. 528; Gaz. vol. 176; p. 84.
Lamp. J. Forsheim. No. 1,021,093; Mar. 26; Sp. p. 4428; Gaz. vol. 176; p. 820.
Lamp. E. A. Lauer. No. 1,026,684; May 21; Sp. p. 3509; Gaz. vol. 178; p. 612.
Lamp. J. H. George. No. 1,027,196; May 21; Sp. p. 4681; Gaz. vol. 178; p. 787.
Lamp. H. A. Douglas. No. 1,027,529; May 28; Sp. p. 5356; Gaz. vol. 178; p. 938.
Lamp. W. H. Penick. No. 1,029,457; June 11; Sp. p. 3025; Gaz. vol. 179; p. 506.
Lamp. J. Granz. No. 1,030,082; June 18; Sp. p. 4395; Gaz. vol. 179; p. 758.
Lamp. F. H. Tobias. No. 1,034,536; Aug. 6; Gaz. vol. 181; p. 45.
Lamp. V. G. Apple. No. 1,034,562; Aug. 6; Gaz. vol. 181; p. 54.
Lamp. T. H. Lange. No. 1,036,523; Aug. 20; Gaz. vol. 181; p. 792.
Lamp. W. S. Levings. No. 1,038,161; Sept. 10; Gaz. vol. 182; p. 363.
Lamp. F. A. Hall. No. 1,038,354; Sept. 10; Gaz. vol. 182; p. 427.
Lamp. A. E. Thompson and J. Cameron. No. 1,040,056; Oct. 1; Gaz. vol. 183; p. 128.
Lamp. G. F. Wehr. No. 1,040,072; Oct. 1; Gaz. vol. 183; p. 135.
Lamp. C. L. Betts. No. 1,041,414; Oct. 15; Gaz. vol. 183; p. 654.
Lamp. B. A. Wiltermood. No. 1,042,863; Oct. 29; Gaz. vol. 183; p. 1212.
Lamp. E. S. Newbold. No. 1,043,244; Nov. 5; Gaz. vol. 184; p. 70.
Lamp. L. Schepmoes. No. 1,043,256; Nov. 5; Gaz. vol. 184; p. 74.
Lamp. W. F. Anklam. No. 1,043,791; Nov. 12; Gaz. vol. 184; p. 293.
Lamp. L. Schepmoes. No. 1,043,872; Nov. 12; Gaz. vol. 184; p. 321.
Lamp. W. H. Fulper. No. 1,045,965; Dec. 3; Gaz. vol. 185; p. 58.
Lamp. V. M. Grab. No. 1,047,514; Dec. 17; Gaz. vol. 185; p. 668.
Lamp, Acetylene-. H. Kerst. No. 1,016,275; Feb. 6; Sp. p. 72; Gaz. vol. 175; p. 14.
Lamp, Acetylene-. J. M. Higgins. No. 1,039,535; Sept. 24; Gaz. vol. 182; p. 888.
Lamp, Acetylene-gas. J. Davis. No. 1,016,215; Jan. 30; Sp. p. 6819; Gaz. vol. 174; p. 1185.
Lamp, Acetylene-gas. C. W. Beck. No. 1,033,861; July 30; Gaz. vol. 180; p. 1175.
Lamp, Adjustable hanging. W. H. Swift. No. 1,016,588; Feb. 6; Sp. p. 822; Gaz. vol. 175; p. 123.
Lamp-adjusting mechanism. J. Andzik. No. 1,016,726; Feb. 6; Sp. p. 1114; Gaz. vol. 175; p. 171.
Lamp, Alcohol-. J. Rossman. No. 1,030,922; July 2; Gaz. vol. 180; p. 24.
Lamp and burner, Vapor. E. and J. Lauterbach. No. 1,016,639; Feb. 6; Sp. p. 941; Gaz. vol. 175; p. 141.
Lamp and connection, Vapor electric. P. C. Hewitt. No. 1,014,705; Jan. 16; Sp. p. 3593; Gaz. vol. 174; p. 615.
Lamp and connection, Vapor electric. P. C. Hewitt. No. 1,014,965; Jan. 16; Sp. p. 4187; Gaz. vol. 174; p. 705.
Lamp and reflectors for same. C. H. Krüger and C. W. Collinson. No. 1,027,737; May 28; Sp. p. 5777; Gaz. vol. 178; p. 1007.
Lamp and renewing the same, Incandescent electric. R. Berrenberg. No. 1,038,076; Sept. 10; Gaz. vol. 182; p. 335.
Lamp and supporting-bracket therefor, Electric. G. Williams. No. 1,030,955; July 2; Gaz. vol. 180; p. 36.

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Lamp and supporting-bracket therefor, Electric. G. Williams. No. 1,040,080; Oct. 1; Gaz. vol. 183; p. 137.
Lamp, Arc-. T. J. and W. H. Prisk. No. 1,016,773; Feb. 6; Sp. p. 1218; Gaz. vol. 175; p. 187.
Lamp, Arc-. T. L. Carbone. No. 1,017,641; Feb. 13; Sp. p. 3071; Gaz. vol. 175; p. 517.
Lamp, Arc-. R. Fleming and E. J. Guay. No. 1,022,541; Apr. 9; Sp. p. 1660; Gaz. vol. 177; p. 295.
Lamp, Arc-. G. Baldauf and E. Presser. No. 1,023,293; Apr. 16; Sp. p. 3312; Gaz. vol. 177; p. 592.
Lamp, Arc-. P. Hanisch and J. Rosemeyer. No. 1,023,424; Apr. 16; Sp. p. 3563; Gaz. vol. 177; p. 634.
Lamp, Arc-. J. L. Dinsmoor. No. 1,025,130; May 7; Sp. p. 40; Gaz. vol. 178; p. 8.
Lamp, Arc-. C. Gonzalez-Perez. No. 1,034,294; July 30; Gaz. vol. 180; p. 1328.
Lamp, Arc-. K. von Dreger. No. 1,034,594; Aug. 6; Gaz. vol. 181; p. 64.
Lamp, Arc-. W. R. Mott. No. 1,036,884; Aug. 27; Gaz. vol. 181; p. 944.
Lamp, Arc-. E. Thomson. No. 1,041,197; Oct. 15; Gaz. vol. 183; p. 581.
Lamp attachment, Automobile. A. G. Thomson. No. 1,035,497; Aug. 13; Gaz. vol. 181; p. 402.
Lamp attachment for automobiles or the like. W. R. Elwell. No. 1,015,483; Jan. 23; Sp. p. 5294; Gaz. vol. 174; p. 907.
Lamp attachment, Incandescent-electric-. O. Weber. No. 1,031,976; July 9; Gaz. vol. 180; p. 433.
Lamp attachment, Vehicle. H. A. Lewis. No. 1,028,231; June 4; Sp. p. 376; Gaz. vol. 179; p. 53.
Lamp, Automobile-. P. C. Avery. No. 1,027,306; May 21; Sp. p. 4905; Gaz. vol. 178; p. 825.
Lamp, Automobile-. F. C. Parsche. No. 1,042,473; Oct. 29; Gaz. vol. 183; p. 1075.
Lamp, Automobile radiator-. D. W. Harlow. No. 1,048,530; Dec. 31; Gaz. vol. 185; p. 1081.
Lamp base, Incandescent-. H. S. Hunter. No. 1,028,025; May 28; Sp. p. 6428; Gaz. vol. 178; p. 1103.
Lamp-base, Reversible. T. A. Willard. No. 1,020,732; Mar. 19; Sp. p. 3676; Gaz. vol. 176; p. 647.
Lamp, Berth-. W. J. Bohan. No. 1,025,675; May 7; Sp. p. 1264; Gaz. vol. 178; p. 196.
Lamp, Bichromatic. J. H. Fry. No. 1,021,458; Mar. 26; Sp. p. 5228; Gaz. vol. 176; p. 945.
Lamp-bracket. C. B. Bartley. No. 1,016,730; Feb. 6; Sp. p. 1119; Gaz. vol. 175; p. 172.
Lamp-bracket. B. G. Gilbough. No. 1,044,772; Nov. 19; Gaz. vol. 184; p. 664.
Lamp-bracket, Adjustable. T. C. Luce. No. 1,023,259; Apr. 16; Sp. p. 3245; Gaz. vol. 177; p. 580.
Lamp bracket and socket, Electric-. E. L. Partridge. No. 1,022,328; Apr. 2; Sp. p. 1207; Gaz. vol. 177; p. 193.
Lamp-bracket, Automobile. B. F and C. E. Ensley. No. 1,015,670; Jan. 23; Sp. p. 5690; Gaz. vol. 174; p. 972.
Lamp-bracket, Dirigible automobile. C. H. Tiedemann. No. 1,031,398; July 2; Gaz. vol. 180; p. 193.
Lamp bracket, Electric-. C. Strand. No. 1,020,062; Mar. 12; Sp. p. 2242; Gaz. vol. 176; p. 386.
Lamp bracket, Electric-. G. J. Dormandy. No. 1,025,519; May 7; Sp. p. 924; Gaz. vol. 178; p. 144.
Lamp-bulb-cleansing means. L. H. Bunker and A. H. Hempel. No. 1,034,343; July 30; Gaz. vol. 180; p. 1344.
Lamp bulbs, Machine for handling incandescent-. W. R. Burrows. No. 1,045,943; Dec. 3; Gaz. vol. 185; p. 50.
Lamp-burner. J. T. Bethel. No. 1,035,307; Aug. 13; Gaz. vol. 181; p. 336.
Lamp-burner. G. Eklund. No. 1,038,323; Sept. 10; Gaz. vol. 182; p. 417.
Lamp-burner. C. E. Wirth. No. 1,044,961; Nov. 19; Gaz. vol. 184; p. 728.
Lamp-burner. E. S. Taylor. No. 1,048,761; Dec. 31; Gaz. vol. 185; p. 1161.
Lamp burner and chimney. M. E. Bridges. No. 1,029,971; June 18; Sp. p. 4156; Gaz. vol. 179; p. 720.
Lamp burner and globe. J. C. Smith. No. 1,014,531; Jan. 9; Sp. p. 3156; Gaz. vol. 174; p. 525.
Lamp-burner attachment. J. G. Barrett. No. 1,013,921; Jan. 9; Sp. p. 1856; Gaz. vol. 174; p. 318.
Lamp-burner attachment. C. Vessière. No. 1,028,643; June 4; Sp. p. 1250; Gaz. vol. 179; p. 192.
Lamp burner, Oil-. G. Regondi. No. 1,043,725; Nov. 5; Gaz. vol. 184; p. 239.
Lamp burner, Upright-incandescent-gas-. H. Sussmann. No. 1,025,656; May 7; Sp. p. 1231; Gaz. vol. 178; p. 189.
Lamp-chimney. Y. K. Buell. No. 1,022,353; Apr. 2; Sp. p. 1252; Gaz. vol. 177; p. 201.
Lamp-chimney holder. D. Dudley. No. 1,020,543; Mar. 19; Sp. p. 3253; Gaz. vol. 176; p. 582.
Lamp-chimney-holding device. W. M. Burkhard. No. 1,034,765; Aug. 6; Gaz. vol. 181; p. 122.
Lamp-chimney lock. C. W. Francis. No. 1,046,763; Dec. 10; Gaz. vol. 185; p. 378.
Lamp chimney or globe. E. G. Johanson. No. 1,030,818; June 25; Sp. p. 6288; Gaz. vol. 179; p. 1059.
Lamp-chimneys, Producing. W. J. Wambaugh. No. 1,042,857; Oct. 29; Gaz. vol. 183; p. 1209.
Lamp clip, Miner's-. G. I. Rawson and L. B. Shultz. No. 1,014,025; Jan. 9; Sp. p. 2095; Gaz. vol. 174; p. 352.
Lamp, Combined high and low pressure gas-. A. J. Roessler and W. A. Armington. No. 1,043,464; Nov. 5; Gaz. vol. 184; p. 151.
Lamp-connector. J. B. McKiel. No. 1,024,643; Apr. 30; Sp. p. 6271; Gaz. vol. 177; p. 1104.
Lamp construction, Arc-. M. J. Wohl and H. Hertzberg. No. 1,013,352; Jan. 2; Sp. p. 582; Gaz. vol. 174; p. 93.
Lamp construction, Arc-. A. A. Low. No. 1,033,813; July 30; Gaz. vol. 180; p. 1159.
Lamp controller, Electric-. A. C. Stambrough and E. Johnson. No. 1,043,268; Nov. 5; Gaz. vol. 184; p. 78.
Lamp-controlling attachment, Heating-. L. W. Holmes and C. V. Trautman. No. 1,041,083; Oct. 15; Gaz. vol. 183; p. 543.
Lamp, Convertible. F. D. Spear. No. 1,018,017; Feb. 20; Sp. p. 3963; Gaz. vol. 175; p. 686.
Lamp, Convertible vapor-. L. K. Flanagan. No. 1,036,209; Aug. 20; Gaz. vol. 181; p. 683.
Lamp-cord adjuster. C. G. Ochiltree. No. 1,015,828; Jan. 30; Sp. p. 6019; Gaz. vol. 174; p. 1052.
Lamp-cord reel. B. F. Miller. No. 1,027,663; May 28; Sp. p. 5627; Gaz. vol. 178; p. 982.
Lamp-cover. W. T. Phillips. No. 1,028,271; June 4; Sp. p. 456; Gaz. vol. 179; p. 66.
Lamp cut-out, Arc-. C. A. B. Halvorson, Jr. No. 1,045,703; Nov. 26; Gaz. vol. 184; p. 1018.
Lamp, Dental and surgical. C. F. Rodgers. No. 1,047,299; Dec. 17; Gaz. vol. 185; p. 592.
Lamp, Dirigible automobile-. T. G. Wilbraham. No. 1,025,602; May 7; Sp. p. 1108; Gaz. vol. 178; p. 172.
Lamp-doors, Lens and reflector retainer for. W. T. Jones. No. 1,045,852; Dec. 3; Gaz. vol. 185; p. 20.
Lamp, Double-ended electric. B. Settecase. No. 1,044,825; Nov. 19; Gaz. vol. 184; p. 681.
Lamp, Electric. K. Edison. No. 1,014,958; Jan. 16; Sp. p. 4176; Gaz. vol. 174; p. 703.
Lamp, Electric. W. J. Lusted. No. 1,031,076; July 2; Gaz. vol. 180; p. 81.
Lamp, Electric. W. A. Richardson. No. 1,033,347; July 23; Gaz. vol. 180; p. 980.
Lamp, Electric. F. L. Fowler. No. 1,049,070; Dec. 31; Gaz. vol. 185; p. 1268.
Lamp, Electric-arc. A. E. Angold. No. 1,019,292; Mar. 5; Sp. p. 637; Gaz. vol. 176; p. 100.
Lamp, Electric-arc. A. Blondel and G. Dobkevitch. No. 1,019,731; Mar. 5; Sp. p. 1567; Gaz. vol. 176; p. 244.
Lamp, Electric-arc. A. Blondel and G. Dobkevitch. No. 1,019,744; Mar. 5; Sp. p. 1590; Gaz. vol. 176; p. 247.
Lamp, Electric-arc. E. Weintraub. No. 1,022,009; Apr. 2; Sp. p. 557; Gaz. vol. 177; p. 87.
Lamp, Electric-arc. K. von Dreger. No. 1,026,568; May 14; Sp. p. 3237; Gaz. vol. 178; p. 535.
Lamp, Electric-arc. K. von Dreger. No. 1,026,569; May 14; Sp. p. 3238; Gaz. vol. 178; p. 535.
Lamp, Electric-arc. J. C. Lincoln. No. 1,031,352; July 2; Gaz. vol. 180; p. 177.
Lamp, Electric-arc. T. E. Adams. No. 1,032,262; July 9; Gaz. vol. 180; p. 529.
Lamp, Electric-arc. T. E. Adams. No. 1,032,263; July 9; Gaz. vol. 180; p. 530.
Lamp, Electric-arc. L. M. McBride. No. 1,039,162; Sept. 24; Gaz. vol. 182; p. 755.
Lamp, Electric-arc. W. Rühling. No. 1,042,375; Oct. 22; Gaz. vol. 183; p. 1011.
Lamp, Electric-arc. A. D. Jones. No. 1,047,235; Dec. 17; Gaz. vol. 185; p. 568.
Lamp, Electric incandescent. O. Schaller. No. 1,016,099; Jan. 30; Sp. p. 6611; Gaz. vol. 174; p. 1148.
Lamp, Electric incandescent. R. H. Henderson. No. 1,046,785; Dec. 10; Gaz. vol. 185; p. 385.
Lamp, Electric signal-. W. J. Warder, Jr. No. 1,037,566; Sept. 3; Gaz. vol. 182; p. 132.
Lamp, Electric table-. W. A. B. Dalzell and A. C. Scroggins. No. 1,032,119; July 9; Gaz. vol. 180; p. 479.
Lamp-extinguisher. J. P. Simons. No. 1,040,445; Oct. 8; Gaz. vol. 183; p. 289.
Lamp-extinguisher. M. Schrader. No. 1,040,777; Oct. 8; Gaz. vol. 183; p. 407.
Lamp-extinguisher. I. Greenwald, J. Blaustein, M. Z. Weiss, and M. Selkovits. No. 1,044,167; Nov. 12; Gaz. vol. 184; p. 423.
Lamp-fixture. E. C. Sofio. No. 1,045,450; Nov. 26; Gaz. vol. 184; p. 927.
Lamp fixture, Electric-. F. L. Raynor. No. 1,020,711; Mar. 19; Sp. p. 3636; Gaz. vol. 176; p. 639.
Lamp fixture, Electric-. A. G. McArdle. No. 1,025,005; Apr. 30; Sp. p. 7012; Gaz. vol. 177; p. 1231.
Lamp fixture, Electric-. W. I. Miller. No. 1,036,676; Aug. 27; Gaz. vol. 181; p. 876.
Lamp-fixture insulating-base. L. Erikson. No. 1,044,035; Nov. 12; Gaz. vol. 184; p. 378.
Lamp-fixture, Series. C. L. Bundy. No. 1,039,645; Sept. 24; Gaz. vol. 182; p. 926.
Lamp, Flash-. D. Harrington. No. 1,042,341; Oct. 22; Gaz. vol. 183; p. 1001.
Lamp, Flash-light. O. B. Mack and G. R. Gamble. No. 1,048,086; Dec. 24; Gaz. vol. 185; p. 892.
Lamp for automobiles, Dirigible. R. H. Wallace. No. 1,016,722; Feb. 6; Sp. p. 1103; Gaz. vol. 175; p. 170.

Alphabetical list of inventions—Continued.

Lamp for inverted incandescent gas-light, Outside. M. Graetz. No. 1,030,080; June 18; Sp. p. 4391; Gaz. vol. 179; p. 757.
Lamp for matching colors by artificial light. M. Weertz. No. 1,015,721; Jan. 23; Sp. p. 5800; Gaz. vol. 174; p. 989.
Lamp for miners, Electrical safety-. V. V. Patton. No. 1,026,924; May 21; Sp. p. 4047; Gaz. vol. 178; p. 694.
Lamp for motor-cycles. J. W. Erickson. No. 1,036,984; Aug. 27; Gaz. vol. 181; p. 978.
Lamp for search-lights, projectors, &c., Electric arc-. H. Beck. No. 1,029,787; June 18; Sp. p. 3729; Gaz. vol. 179; p. 656.
Lamp, Gas-. F. J. and H. R. Humphrey. No. 1,015,563; Jan. 23; Sp. p. 5455; Gaz. vol. 174; p. 934.
Lamp, Gas-. F. J. and H. R. Humphrey. No. 1,015,564; Jan. 23; Sp. p. 5457; Gaz. vol. 174; p. 935.
Lamp, Gas-. F. J. and H. R. Humphrey. No. 1,020,556; Mar. 19; Sp. p. 3287; Gaz. vol. 176; p. 587.
Lamp, Gas-. S. B. Harvey. No. 1,024,199; Apr. 23; Sp. p. 5242; Gaz. vol. 177; p. 918.
Lamp, Gas-. H. Rubin. No. 1,040,019; Oct. 1; Gaz. vol. 183; p. 116.
Lamp, Gas-. J. and G. Keith. No. 1,042,798; Oct. 29; Gaz. vol. 183; p. 1189.
Lamp, Gas-. A. C. Roessler and W. A. Armington. No. 1,043,463; Nov. 5; Gaz. vol. 184; p. 150.
Lamp, Gas or vapor electric. P. C. Hewitt. No. 1,030,302; June 25; Sp. p. 4878; Gaz. vol. 179; p. 873.
Lamp, Gasolene-. H. C. Albrecht. No. 1,031,680; July 9; Gaz. vol. 180; p. 331.
Lamp globe, Arc-. J. T. Beechlyn. No. 1,034,955; Aug. 6; Gaz. vol. 181; p. 186.
Lamp globe, Arc-. J. T. H. Dempster. No. 1,046,152; Dec. 3; Gaz. vol. 185; p. 122.
Lamp-globe holder. R. L. Gladden. No. 1,028,015; May 28; Sp. p. 6413; Gaz. vol. 178; p. 1100.
Lamp-globe holder. T. J. Litle, Jr. No. 1,031,012; July 2; Gaz. vol. 180; p. 57.
Lamp globe or shade, Incandescent-gas-. T. J. Litle, Jr. No. 1,013,668; Jan. 2; Sp. p. 1277; Gaz. vol. 174; p. 200.
Lamp-globes, Dust-collector for. L. W. Young. No. 1,030,371; June 25; Sp. p. 5039; Gaz. vol. 179; p. 899.
Lamp-guard. F. Overbagh and I. H. Brent. No. 1,044,566; Nov. 19; Gaz. vol. 184; p. 590.
Lamp handle, Portable-incandescent-. L. T. Washington. No. 1,023,449; Apr. 16; Sp. p. 3620; Gaz. vol. 177; p. 642.
Lamp hanger and automatic cut-out, Arc-. A. G. Munson and M. N. Webster. No. 1,026,360; May 14; Sp. p. 2817; Gaz. vol. 178; p. 466.
Lamp hanger, Arc-. G. E. Stevens. No. 1,022,514; Apr. 9; Sp. p. 1597; Gaz. vol. 177; p. 286.
Lamp hanger, Arc-. J. T. Beechlyn. No. 1,022,527; Apr. 9; Sp. p. 1635; Gaz. vol. 177; p. 290.
Lamp hanger, Electric-. E. E. Schellenger. No. 1,024,029; Apr. 23; Sp. p. 4840; Gaz. vol. 177; p. 858.
Lamp hanger, Electric-. E. E. Schellenger. No. 1,024,030; Apr. 23; Sp. p. 4842; Gaz. vol. 177; p. 859.
Lamp hanger, Incandescent-. C. Sorensen. No. 1,036,739; Aug. 27; Gaz. vol. 181; p. 896.
Lamp, Head-. H. M. Hays and W. R. Rosenbaum. No. 1,019,895; Mar. 12; Sp. p. 1908; Gaz. vol. 176; p. 332.
Lamp-holder. W. Klement. No. 1,023,942; Apr. 23; Sp. p. 4666; Gaz. vol. 177; p. 829.
Lamp-holder and reflector, Adjustable. G. H. Amend. No. 1,022,618; Apr. 9; Sp. p. 1830; Gaz. vol. 177; p. 320.
Lamp-holder, Portable protected. R. B. Benjamin. No. 1,038,071; Sept. 10; Gaz. vol. 182; p. 333.
Lamp, Hydrocarbon-. R. L. Doran. No. 1,019,229; Mar. 5; Sp. p. 487; Gaz. vol. 176; p. 78.
Lamp, Hydrocarbon-. A. R. Swaine. No. 1,028,977; June 11; Sp. p. 1972; Gaz. vol. 179; p. 341.
Lamp, Hydrocarbon miner's. J. Goulet. No. 1,013,765; Jan. 2; Sp. p. 1491; Gaz. vol. 174; p. 236.
Lamp-igniting apparatus, Miner's-. E. A. Hailwood. No. 1,030,297; June 25; Sp. p. 4863; Gaz. vol. 179; p. 870
Lamp-igniting attachment. J. H. Young. No. 1,048,258; Dec. 24; Gaz. vol. 185; p. 948.
Lamp-ignition device. C. Koch. No. 1,015,193; Jan. 16; Sp. p. 4636; Gaz. vol. 174; p. 782.
Lamp, Incandescent. J. Wilson. No. 1,014,686; Jan. 16; Sp. p. 3565; Gaz. vol. 174; p. 610.
Lamp, Incandescent. L. Glaser. No. 1,023,307; Apr. 16; Sp. p. 3340; Gaz. vol. 177; p. 596.
Lamp, Incandescent. A. F. Thompson. No. 1,024,378; Apr. 23; Sp. p. 5572; Gaz. vol. 177; p. 977.
Lamp, Incandescent. T. J. Litle, Jr. No. 1,031,014; July 2; Gaz. vol. 180; p. 58.
Lamp, Incandescent. E. H. Tate. No. 1,032,961; July 16; Gaz. vol. 180; p. 809.
Lamp, Incandescent. M. M. Merritt. No. 1,034,722; Aug. 6; Gaz. vol. 181; p. 107.
Lamp, Incandescent. T. A. Willard. No. 1,048,017; Dec. 24; Gaz. vol. 185; p. 868.
Lamp, Incandescent electric. R. H. Singley. No. 1,020,319; Mar. 12; Sp. p. 2778; Gaz. vol. 176; p. 470.
Lamp, Incandescent electric. H. Gilmore. No. 1,031,114; July 2; Gaz. vol. 180; p. 94.
Lamp, Incandescent electric. E. H. Tate. No. 1,036,744; Aug. 27; Gaz. vol. 181; p. 898.
Lamp, Incandescent electric. E. H. Tate. No. 1,038,681; Sept. 17; Gaz. vol. 182; p. 577.
Lamp, Incandescent electric. F. Benz, Jr. No. 1,046,547; Dec. 10; Gaz. vol. 185; p. 300.
Lamp, Incandescent gas-. T. J. Litle, Jr. No. 1,031,013; July 2; Gaz. vol. 180; p. 57.
Lamp, Incandescent gas-. T. J. Litle, Jr. No. 1,031,128; July 2; Gaz. vol. 180; p. 99.
Lamp, Incandescent gas-. O. Wiederhold. No. 1,043,182; Nov. 5; Gaz. vol. 184; p. 49.
Lamp, Incandescent multiple-circuit. C. Carangelo. No. 1,029,851; June 18; Sp. p. 3901; Gaz. vol. 179; p. 679.
Lamp, Instrument-. J. F. Stender. No. 1,034,936; Aug. 6; Gaz. vol. 181; p. 179.
Lamp, Inverted incandescent gas-. M. Graetz. No. 1,030,079; June 18; Sp. p. 4387; Gaz. vol. 179; p. 756.
Lamp, Inverted-mantle. G. G. Jones. No. 1,037,488; Sept. 3; Gaz. vol. 182; p. 106.
Lamp leak-tester, Incandescent-electric-. B. G. Erskine. No. 1,014,287; Jan. 9; Sp. p. 2657; Gaz. vol. 174; p. 443.
Lamp lighting and extinguishing apparatus, Gas-. T. M. Sandiford. No. 1,035,477; Aug. 13; Gaz. vol. 181; p. 395.
Lamp-lock. H. W. Rector. No. 1,037,317; Sept. 3; Gaz. vol. 182; p. 46.
Lamp-locking device. J. C. Manley. No. 1,032,618; July 16; Gaz. vol. 180; p. 694.
Lamp-locking device. J. C. Manley, J. Thulin, and P. J. Smith. No. 1,040,366; Oct. 8; Gaz. vol. 183; p. 263.
Lamp-locking device. J. C. Manley, J. Thulin, and P. J. Smith. No. 1,040,367; Oct. 8; Gaz. vol. 183; p. 263.
Lamp-making machine, Incandescent-. W. R. Burrows. No. 1,013,124; Jan. 2; Sp. p. 66; Gaz. vol. 174; p. 13.
Lamp-mantle paper receptacle. W. T. Wilson. No. 1,043,556; Nov. 5; Gaz. vol. 184; p. 183.
Lamp-manufacturing machine. G. W. Beadle. No. 1,031,770; July 9; Gaz. vol. 180; p. 362.
Lamp, Metal-filament. W. R. Whitney. No. 1,013,915; Jan. 9; Sp. p. 1840; Gaz. vol. 174; p. 315.
Lamp, Metal-filament incandescent. G. Lüdecke. No. 1,038,613; Sept. 17; Gaz. vol. 182; p. 552.
Lamp, Metallic-filament. E. Farkas. No. 1,029,350; June 11; Sp. p. 2785; Gaz. vol. 179; p. 470.
Lamp, Metallic-filament. O. Krause. No. 1,041,817; Oct. 22; Gaz. vol. 183; p. 826.
Lamp, Miner's. W. E. Pinkney. No. 1,016,645; Feb. 6; Sp. p. 950; Gaz. vol. 175; p. 143.
Lamp, Miner's. H. Becker. No. 1,019,748; Mar. 12; Sp. p. 1607; Gaz. vol. 176; p. 281.
Lamp, Miner's. J. Bertha. No. 1,021,568; Mar. 26; Sp. p. 5466; Gaz. vol. 176; p. 982.
Lamp, Miner's. W. P. Rice. No. 1,024,362; Apr. 23; Sp. p. 5547; Gaz. vol. 177; p. 972.
Lamp, Miner's. N. Blount. No. 1,026,622; May 14; Sp. p. 3355; Gaz. vol. 178; p. 553.
Lamp, Miner's. F. L. Flynn. No. 1,032,130; July 9; Gaz. vol. 180; p. 482.
Lamp, Miner's. E. C. Mangin. No. 1,037,948; Sept. 10; Gaz. vol. 182; p. 293.
Lamp, Miner's. S. W. Metz. No. 1,038,930; Sept. 17; Gaz. vol. 182; p. 664.
Lamp, Miner's. P. Pezzuto. No. 1,048,870; Dec. 31; Gaz. vol. 185; p. 1199.
Lamp, Miner's safety-. E. A. Hailwood. No. 1,023,563; Apr. 16; Sp. p. 3848; Gaz. vol. 177; p. 678.
Lamp, Multiple-burner incandescent. R. D. Cody. No. 1,032,325; July 9; Gaz. vol. 180; p. 551.
Lamp, Oil-. C. E. Godley. No. 1,044,775; Nov. 19; Gaz. vol. 184; p. 665.
Lamp-operating mechanism, Pilot-. W. E. Andersen. No. 1,037,816; Sept. 3; Gaz. vol. 182; p. 212.
Lamp or illuminator for autos and other vehicles. W. K. Lenhart. No. 1,024,210; Apr. 23; Sp. p. 5266; Gaz. vol. 177; p. 923.
Lamp or lantern. J. T. Casey. No. 1,013,275; Jan. 2; Sp. p. 404; Gaz. vol. 174; p. 65.
Lamp or lantern glass holder, Signal. C. J. Peterson and J. G. McGregor. No. 1,035,043; Aug. 6; Gaz. vol. 181; p. 213.
Lamp package, Tungsten-. W. Lumley. No. 1,016,077; Jan. 30; Sp. p. 6572; Gaz. vol. 174; p. 1141.
Lamp, Piano-. H. I. Fisher. No. 1,042,099; Oct. 22; Gaz. vol. 183; p. 921.
Lamp, Pocket-. J. J. Mullaney. No. 1,026,995; May 21; Sp. p. 4220; Gaz. vol. 178; p. 720.
Lamp, Pocket-. H. Schwager. No. 1,027,285; May 21; Sp. p. 4863; Gaz. vol. 178; p. 819.
Lamp, Portable electric. E. Gottschalck. No. 1,022,072; Apr. 2; Sp. p. 679; Gaz. vol. 177; p. 108.
Lamp, Portable electric. E. Gottschalck. No. 1,022,073; Apr. 2; Sp. p. 681; Gaz. vol. 177; p. 109.
Lamp, Portable electric. E. Gottschalck. No. 1,025,394; May 7; Sp. p. 642; Gaz. vol. 178; p. 100.
Lamp-post. L. C. Bader. No. 1,042,750; Oct. 29; Gaz. vol. 183; p. 1172.
Lamp-receptacle. J. S. Stewart. No. 1,016,718; Feb. 6; Sp. p. 1096; Gaz. vol. 175; p. 168.
Lamp, Reflecting electrical. E. H. Tate. No. 1,046,677; Dec. 10; Gaz. vol. 185; p. 346.

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Lamp, Reversible automobile-. G. F. Minhinnett. No. 1,037,961; Sept. 10; Gaz. vol. 182; p. 298.
Lamp, Safety-. F. A. Satter. No. 1,044,256; Nov. 12; Gaz. vol. 184; p. 454.
Lamp safety-chamber. J. V. Down. No. 1,042,656; Oct. 29; Gaz. vol. 183; p. 1140.
Lamp safety device, Gas-. F. Huttenlocher. No. 1,043,938; Nov. 12; Gaz. vol. 184; p. 345.
Lamp, Self-extinguishing. C. T. Siebert. No. 1,048,901; Dec. 31; Gaz. vol. 185; p. 1209.
Lamp, Self-righting. L. A. Bartlett. No. 1,023,062; Apr. 9; Sp. p. 2789; Gaz. vol. 177; p. 474.
Lamp-shade. N. B. McGhee. No. 1,035,624; Aug. 13; Gaz. vol. 181; p. 444.
Lamp-shade holder, Incandescent-. H. H. Palmer. No. 1,027,888; May 28; Sp. p. 6168; Gaz. vol. 178; p. 1059.
Lamp-shade holder or guard, Incandescent-. W. Iland. No. 1,016,223; Jan. 30; Sp. p. 6833; Gaz. vol. 174; p. 1188.
Lamp shade or globe. H. A. Schnelbach. No. 1,041,886; Oct. 22; Gaz. vol. 183; p. 851.
Lamp-shade-suspension device. H. M. Daggett. No. 1,036,194; Aug. 20; Gaz. vol. 181; p. 678.
Lamp, Signal-. A. H. Handlan, Jr. No. 1,016,624; Feb. 6; Sp. p. 914; Gaz. vol. 175; p. 136.
Lamp, Signal-. F. D. Spear. No. 1,018,016; Feb. 20; Sp. p. 3961; Gaz. vol. 175; p. 686.
Lamp, Signal-. H. C. Wagner. No. 1,024,302; Apr. 23; Sp. p. 5445; Gaz. vol. 177; p. 954.
Lamp, Signal-. W. S. Hamm. No. 1,039,123; Sept. 24; Gaz. vol. 182; p. 742.
Lamp, Signal-. A. H. Handlan, Jr. No. 1,042,787; Oct. 29; Gaz. vol. 183; p. 1185.
Lamp, Signal-. G. H. Rolfes. No. 1,043,465; Nov. 5; Gaz. vol. 184; p. 151.
Lamp-socket. R. W. Osland and M. J. Huggins. No. 1,013,681; Jan. 2; Sp. p. 1326; Gaz. vol. 174; p. 205.
Lamp-socket. J. M. Hall. No. 1,017,051; Feb. 13; Sp. p. 1822; Gaz. vol. 175; p. 316.
Lamp-socket. R. B. Benjamin. No. 1,023,916; Apr. 23; Sp. p. 4611; Gaz. vol. 177; p. 821.
Lamp-socket. E. G. K. Anderson. No. 1,025,230; May 7; Sp. p. 263; Gaz. vol. 178; p. 44.
Lamp-socket. W. S. MacLewee. No. 1,030,101; June 18; Sp. p. 4433; Gaz. vol. 179; p. 766.
Lamp-socket. C. J. Klein. No. 1,038,151; Sept. 10; Gaz. vol. 182; p. 359.
Lamp-socket. H. C. Wirt and F. W. Sanford. No. 1,043,380; Nov. 5; Gaz. vol. 184; p. 120.
Lamp-socket. R. B. Benjamin. No. 1,048,279; Dec. 24; Gaz. vol. 185; p. 957.
Lamp socket and shade holder. M. P. Stevens. No. 1,030,345; June 25; Sp. p. 4984; Gaz. vol. 179; p. 888.
Lamp-socket attachment, Electric-. W. Haas. No. 1,032,206; July 9; Gaz. vol. 180; p. 510.
Lamp socket, Electric-. M. Peaucellier. No. 1,013,434; Jan. 2; Sp. p. 760; Gaz. vol. 174; p. 120.
Lamp socket, Electric-. A. L. Jacobs. No. 1,013,658; Jan. 2; Sp. p. 1254; Gaz. vol. 174; p. 197.
Lamp socket, Electric-. M. Norden. No. 1,014,169; Jan. 9; Sp. p. 2393; Gaz. vol. 174; p. 401.
Lamp socket, Electric-. H. Hubbell. (Reissue.) No. 13,353; Jan. 9; Sp. p. 3413; Gaz. vol. 174; p. 564.
Lamp socket, Electric-. J. H. Goehst. No. 1,017,260; Feb. 13; Sp. p. 2296; Gaz. vol. 175; p. 390.
Lamp socket, Electric-. W. G. Clark. No. 1,018,480; Feb. 27; Sp. p. 4978; Gaz. vol. 175; p. 877.
Lamp socket, Electric-. W. Abbe. No. 1,020,245; Mar. 12; Sp. p. 2642; Gaz. vol. 176; p. 448.
Lamp socket, Electric-. G. C. Knauff. No. 1,021,195; Mar. 26; Sp. p. 4646; Gaz. vol. 176; p. 852.
Lamp socket, Electric-. H. Wheeler. No. 1,022,906; Apr. 9; Sp. p. 2464; Gaz. vol. 177; p. 419.
Lamp socket, Electric-. G. W. Goodridge. No. 1,024,129; Apr. 23; Sp. p. 5083; Gaz. vol. 177; p. 894.
Lamp socket, Electric-. R. B. Benjamin. No. 1,025,239; May 7; Sp. p. 287; Gaz. vol. 178; p. 47.
Lamp socket, Electric-. H. T. Hartwig. No. 1,028,719; June 4; Sp. p. 1400; Gaz. vol. 179; p. 217.
Lamp socket, Electric-. C. H. Bissell. No. 1,036,548; Aug. 27; Gaz. vol. 181; p. 832.
Lamp socket, Electric-. W. A. Richardson. No. 1,041,873; Oct. 22; Gaz. vol. 183; p. 846.
Lamp socket, Electric-. R. B. Benjamin. No. 1,046,431; Dec. 10; Gaz. vol. 185; p. 257.
Lamp-socket, Electric lock. A. J. Kemplen. No. 1,032,362; July 9; Gaz. vol. 180; p. 564.
Lamp socket, Incandescent-. F. C. De Reamer. No. 1,013,135; Jan. 2; Sp. p. 89; Gaz. vol. 174; p. 16.
Lamp socket, Incandescent-. P. Kleber. No. 1,015,963; Jan. 30; Sp. p. 6315; Gaz. vol. 174; p. 1099.
Lamp socket, Incandescent-. L. J. Castonguay. No. 1,046,968; Dec. 10; Gaz. vol. 185; p. 445.
Lamp socket, Incandescent-electric-. C. H. Bissell. No. 1,035,149; Aug. 13; Gaz. vol. 181; p. 279.
Lamp socket, Incandescent-electric-. J. J. Rooney. No. 1,037,994; Sept. 10; Gaz. vol. 182; p. 308.
Lamp-socket locking device. F. Barr. No. 1,042,383; Oct. 29; Gaz. vol. 183; p. 1041.
Lamp socket, &c., Pendent electric-. G. W. Goodridge. No. 1,025,742; May 7; Sp. p. 1403; Gaz. vol. 178; p. 219.
Lamp-socket, Plural. N. Weeks. No. 1,043,179; Nov. 5; Gaz. vol. 184; p. 48.
Lamp socket, Weatherproof electric-. R. B. Benjamin. No. 1,025,238; May 7; Sp. p. 284; Gaz. vol. 178; p. 47.
Lamp sockets, Attachment for incandescent-. N. Klein. No. 1,015,897; Jan. 30; Sp. p. 6172; Gaz. vol. 174; p. 1076.
Lamp sockets, Cap-lining fastener for electric-. E. H. Freeman. No. 1,021,243; Mar. 26; Sp. p. 4758; Gaz. vol. 176; p. 868.
Lamp sockets, Casing for incandescent-electric-. C. C. Schoeneck. No. 1,025,928; May 7; Sp. p. 1829; Gaz. vol. 178; p. 282.
Lamp-sockets, Detachable chain-guide for. A. S. Lyhne. No. 1,023,434; Apr. 16; Sp. p. 3584; Gaz. vol. 177; p. 637.
Lamp-sockets, Insulating-lining for electrical. E. H. Freeman. No. 1,020,036; Mar. 12; Sp. p. 2195; Gaz. vol. 176; p. 378.
Lamp-sockets, Lining-fastening for electrical. E. H. Freeman. No. 1,020,035; Mar. 12; Sp. p. 2193; Gaz. vol. 176; p. 378.
Lamp-stand. F. Himes-Cox. No. 1,021,918; Apr. 2; Sp. p. 349; Gaz. vol. 177; p. 58.
Lamp, Storage-battery. C. B. Bartley. No. 1,028,984; June 11; Sp. p. 1991; Gaz. vol. 179; p. 348.
Lamp-support. C. H. Wood and J. T. Powers. No. 1,037,096; Aug. 27; Gaz. vol. 181; p. 1015.
Lamp-supporting device. R. M. Millar. No. 1,043,530; Nov. 5; Gaz. vol. 184; p. 174.
Lamp suspension, Gas-. J. and G. Keith. No. 1,035,881; Aug. 20; Gaz. vol. 181; p. 569.
Lamp switch-socket, Electric-. R. B. Benjamin. No. 1,025,237; May 7; Sp. p. 281; Gaz. vol. 178; p. 46.
Lamp, Table-. G. Benze. No. 1,034,409; Aug. 6; Gaz. vol. 181; p. 4.
Lamp trimmer and gage, Arc-. A. A. Low, H. Hertzberg, and M. J. Wohl. No. 1,013,409; Jan. 2; Sp. p. 700; Gaz. vol. 174; p. 111.
Lamp, Tubular incandescent. E. R. Knowles. No. 1,028,118; June 4; Sp. p. 48; Gaz. vol. 179; p. 12.
Lamp, Tubular incandescent. E. R. Knowles. No. 1,041,100; Oct. 15; Gaz. vol. 183; p. 549.
Lamp, Vacuum-tube. D. M. Moore. No. 1,032,562; July 16; Gaz. vol. 180; p. 675.
Lamp, Vacuum-tube. D. M. Moore. No. 1,034,923; Aug. 6; Gaz. vol. 181; p. 174.
Lamp, Vacuum-tube. D. M. Moore. No. 1,046,004; Dec. 3; Gaz. vol. 185; p. 70.
Lamp, Vapor-. L. H. Burchett. No. 1,034,973; Aug. 6; Gaz. vol. 181; p. 192.
Lamp, Vapor-. H. C. Albrecht and J. P. McGee. No. 1,035,673; Aug. 13; Gaz. vol. 181; p. 460.
Lamp, Vapor-. E. Seitz. No. 1,044,267; Nov. 12; Gaz. vol. 184; p. 458.
Lamp, Vaporizing and superheating incandescent. H. Z. Nelson. No. 1,040,388; Oct. 8; Gaz. vol. 183; p. 271.
Lamp, Vehicle-. J. A. Joncas. No. 1,017,000; Feb. 13; Sp. p. 1715; Gaz. vol. 175; p. 299.
Lamp, Vehicle-. C. L. Betts. No. 1,018,030; Feb. 20; Sp. p. 3995; Gaz. vol. 175; p. 691.
Lamp, Vehicle-. R. G. Harris. No. 1,023,519; Apr. 16; Sp. p. 3758; Gaz. vol. 177; p. 664.
Lamp with bipartite bulb, Electric incandescent. P. Weisse and S. Bloch. No. 1,046,918; Dec. 10; Gaz. vol. 185; p. 429.
Lamps, Adjustable lens for headlight-. W. T. Jones. No. 1,014,227; Jan. 9; Sp. p. 2532; Gaz. vol. 174; p. 422.
Lamps and arc-lamps in common, Connection for running incandescent. W. Schäffer. No. 1,033,275; July 23; Gaz. vol. 180; p. 956.
Lamps and reflectors, Supporting incandescent electric. O. Weber. No. 1,014,681; Jan. 16; Sp. p. 3557; Gaz. vol. 174; p. 608.
Lamps, Apparatus for manufacturing incandescent. A. S. Knight. No. 1,042,451; Oct. 29; Gaz. vol. 183; p. 1067.
Lamps, Automatic controlling device for vehicle-. O. W. Page. No. 1,046,010; Dec. 3; Gaz. vol. 185; p. 72.
Lamps, &c., Combination-lock for electric. G. I. Silbert. No. 1,034,151; July 30; Gaz. vol. 180; p. 1278.
Lamps, Connecting filaments and feed-wires for electric incandescent. F. Hanaman. No. 1,031,710; July 9; Gaz. vol. 180; p. 341.
Lamps, Connection for running arc-. W. Schäffer. No. 1,032,027; July 9; Gaz. vol. 180; p. 449.
Lamps, Cord-adjuster for electric. J. McGavin. No. 1,026,690; May 21; Sp. p. 3519; Gaz. vol. 178; p. 613.
Lamps, Electric lighting device for motor-vehicle. H. D. Grinnell. No. 1,047,045; Dec. 10; Gaz. vol. 185; p. 470.
Lamps, Filament-support for incandescent. C. P. Steinmetz. No. 1,013,965; Jan. 9; Sp. p. 1962; Gaz. vol. 174; p. 332.
Lamps, Fixture for vacuum-tube. D. M. Moore. No. 1,028,092; May 28; Sp. p. 6605; Gaz. vol. 178; p. 1125.
Lamps, Fly-catcher for. A. B. Baker. No. 1,019,410; Mar. 5; Sp. p. 949; Gaz. vol. 176; p. 138.

Alphabetical list of inventions—Continued.

Lamps, Guard for incandescent. H. Hubbell. No. 1,022,740; Apr. 9; Sp. p. 2130; Gaz. vol. 177; p. 365.
Lamps, Hand-fire for making joints in vacuum-tube. D. M. Moore. No. 1,014,247; Jan. 9; Sp. p. 2580; Gaz. vol. 174; p. 430.
Lamps, Heater and glower renewal for. O. Foell, A. Kusebauch, and R. Neckerman. No. 1,029,114; June 11; Sp. p. 2270; Gaz. vol. 179; p. 388.
Lamps, Illuminant for electrical incandescent. O. M. Thowless. No. 1,023,485; Apr. 16; Sp. p. 3688; Gaz. vol. 177; p. 653.
Lamps, Incandescent bodies for electric. A. Just and F. Hanaman. No. 1,018,502; Feb. 27; Sp. p. 5031; Gaz. vol. 175; p. 885.
Lamps, Lens for. J. A. Stevens. No. 1,031,207; July 2; Gaz. vol. 180; p. 127.
Lamps, Lock-guard for incandescent. H. Hubbell. No. 1,022,739; Apr. 9; Sp. p. 2128; Gaz. vol. 177; p. 365.
Lamps, Machine for manufacturing parts of incandescent. G. W. Beadle. No. 1,017,072; Feb. 13; Sp. p. 1871; Gaz. vol. 175; p. 324.
Lamps, Making electrically-conducting joints in metallic-filament incandescent electric. A. C. Hyde. No. 1,031,716; July 9; Gaz. vol. 180; p. 343.
Lamps, Making incandescent. W. R. Whitney. No. 1,025,499; May 7; Sp. p. 880; Gaz. vol. 178; p. 137.
Lamps, Mantle-burner for kerosene-. H. E. Rider. No. 1,021,163; Mar. 26; Sp. p. 4580; Gaz. vol. 176; p. 842.
Lamps, Mantle-burner for kerosene-. G. S. Rider. No. 1,022,700; Apr. 9; Sp. p. 2021; Gaz. vol. 177; p. 350.
Lamps, Mantle-support for gas-. A. H. Humphrey. No. 1,015,562; Jan. 23; Sp. p. 5453; Gaz. vol. 174; p. 934.
Lamps, Manufacture of tungsten filaments for incandescent electric. A. Lederer. No. 1,034,018; July 30; Gaz. vol. 180; p. 1233.
Lamps, Mask for automobile-. H. D. Penney and C. A. Weed. No. 1,013,895; Jan. 9; Sp. p. 1796; Gaz. vol. 174; p. 308.
Lamps, Means for constructing incandescent. A. S. Knight. No. 1,034,917; Aug. 6; Gaz. vol. 181; p. 172.
Lamps, Means for regulating electric. H. S. Stone. No. 1,048,003; Dec. 24; Gaz. vol. 185; p. 863.
Lamps, Regulating-nozzle for incandescent gas-. M. Graetz. No. 1,039,520; Sept. 24; Gaz vol. 182; p. 883.
Lamps, Safety device for gas-. F. Huttenlocher. No. 1,038,893; Sept. 17; Gaz. vol. 182; p. 651.
Lamps, &c., Socket for. E. C. Everett. No. 1,044,871; Nov. 19; Gaz. vol. 184; p. 697.
Lamps, Tool for handling electric globe-. A. Santilli. No. 1,024,286; Apr. 23; Sp. p. 5419; Gaz. vol. 177; p. 949.
Lamps, Transparent hood for electric. G. A. Seessle. No. 1,042,979; Oct. 29; Gaz. vol. 183; p. 1250.
Lamps, Vise for holding vehicle-. E. V. Christiana. No. 1,016,914; Feb. 6; Sp. p. 1506; Gaz. vol. 175; p. 233.
Lamps, Wire guard for electric. C. H. Hunsberger. No. 1,044,785; Nov. 19; Gaz. vol. 184; p. 669.
Lancet. A. C. Smith. No. 1,037,802; Sept. 3; Gaz. vol. 182; p. 208.
Land leveling and checking apparatus. L. A. Norviel and J. T. Compton. No. 1,044,414; Nov. 12; Gaz. vol. 184; p. 508.
Land-packer, Subsurface. F. Garrard. No. 1,045,014; Nov. 19; Gaz. vol. 184; p. 746.
Land-reclaiming and current-controlling means for silt-bearing streams. J. M. Maher and E. Bignell. No. 1,031,077; July 2; Gaz. vol. 180; p. 81.
Land-reclaiming apparatus. J. Baldwin. No. 1,034,675; Aug. 6; Gaz. vol. 181; p. 91.
Land-roller. W. A. McIlvoy. No. 1,040,722; Oct. 8; Gaz. vol. 183; p. 390.
Land-rolling machine. C. L. Lilleberg. No. 1,017,430; Feb. 13; Sp. p. 2658; Gaz. vol. 175; p. 449.
Land-worker and seeder. E. Hovey. No. 1,021,929; Apr. 2; Sp. p. 366; Gaz. vol. 177; p. 61.
Lantern. W. S. Hamm and F. A. Schuetz. No. 1,025,624; May 7; Sp. p. 1167; Gaz. vol. 178; p. 179.
Lantern. W. S. Hamm and F. A. Schuetz. No. 1,025,625; May 7; Sp. p. 1168; Gaz. vol. 178; p. 179.
Lantern. J. Wright. No. 1,031,309; July 2; Gaz. vol. 180; p. 163.
Lantern. C. B. Carson. No. 1,031,420; July 2; Gaz. vol. 180; p. 200.
Lantern. C. B. Carson. No. 1,031,421; July 2; Gaz. vol. 180; p. 201.
Lantern. A. R. Pritchard. No. 1,032,772; July 16; Gaz. vol. 180; p. 748.
Lantern. H. Geruldsen. No. 1,041,065; Oct. 15; Gaz. vol. 183; p. 537.
Lantern. G. Dalén and S. A. Eskilson. No. 1,041,438; Oct. 15; Gaz. vol. 183; p. 662.
Lantern. W. R. Yarlott and J. W. Hackman. No. 1,044,618; Nov. 19; Gaz. vol. 184; p. 609.
Lantern. C. Dustin. No. 1,047,768; Dec. 17; Gaz. vol. 185; p. 757.
Lantern and plates therefor. H. F. E. S. Dusseris and J. T. F. Conti. No. 1,028,692; June 4; Sp. p. 1340; Gaz. vol. 179; p. 208.
Lantern attachment. J. H. Peckham. No. 1,038,427; Sept. 10; Gaz. vol. 182; p. 454.
Lantern bail-holder. R. L. Cairncross. No. 1,013,530; Jan. 2; Sp. p. 960; Gaz. vol. 174; p. 154.
Lantern-extinguisher. C. T. Siebert. No. 1,022,209; Apr. 2; Sp. p. 969; Gaz. vol. 177; p. 155.
Lantern-globe. W. Churchill. No. 1,041,740; Oct. 22; Gaz. vol. 183; p. 798.
Lantern-globe. G. A. Macbeth. No. 1,048,981; Dec. 31; Gaz. vol. 185; p. 1236.
Lantern-globe lifter. J. H. Hill. No. 1,036,113; Aug. 20; Gaz. vol. 181; p. 648.
Lantern-guard. W. McArthur. No. 1,035,623; Aug. 13; Gaz. vol. 181; p. 444.
Lantern-guard. F. Dietz. No. 1,048,300; Dec. 24; Gaz. vol. 185; p. 963.
Lantern-handle. J. E. Dietz. No. 1,035,550; Aug. 13; Gaz. vol. 181; p. 420.
Lantern-holder. W. W. Eastman. No. 1,042,898; Oct. 29; Gaz. vol. 183; p. 1223.
Lantern or lamp. C. C. Briand. No. 1,022,821; Apr. 9; Sp. p. 2293; Gaz. vol. 177; p. 392.
Lantern, Projecting-. R Bright, Jr., and J. M. W. Wright. No. 1,026,019; May 14; Sp. p. 2017; Gaz. vol. 178; p. 348.
Lantern, Signal-. E. W. Beane. No. 1,029,041; June 11; Sp. p. 2117; Gaz. vol. 179; p. 364.
Lantern, Signal-. P. Clay and G. Washington. No. 1,035,420; Aug. 13; Gaz. vol. 181; p. 375.
Lantern, Signal-. C. A. Thompson and D. Pierce. No. 1,036,377; Aug. 20; Gaz. vol. 181; p. 742.
Lantern-slides, Making. H. D. White. No. 1,048,248; Dec. 24; Gaz. vol. 185; p. 944.
Lantern-support. J. Burke. No. 1,026,493; May 14; Sp. p. 3095; Gaz. vol. 178; p. 510.
Lantern, Tubular. A. R. Pritchard. No. 1,015,398; Jan. 23; Sp. p. 5097; Gaz. vol. 174; p. 878.
Lantern, Tubular. A. R. Pritchard. No. 1,026,699; May 21; Sp. p. 3539; Gaz. vol. 178; p. 617.
Lantern, Tubular F. Dietz. No. 1,035,549; Aug. 13; Gaz. vol. 181; p. 419.
Lantern, Tubular. C. Bergener. No. 1,041,411; Oct. 15; Gaz. vol. 183; p. 653.
Lantern, Tubular. C. L. Betts. No. 1,044,855; Nov. 19; Gaz. vol. 184; p. 691.
Lantern, Tubular. F. Dietz. No. 1,044,866; Nov. 19; Gaz. vol. 184; p. 695.
Lantern, Vehicle-. J. G. A. Kitchen and I. H. Storey. No. 1,033,253; July 23; Gaz. vol. 180; p. 949.
Lantern-windows and their operating mechanism. W. Bayley. No. 1,025,957; May 14; Sp. p. 1899; Gaz. vol. 178; p. 327.
Lanterns, Condenser-cell for kinematograph and optical. L. Kamm. No. 1,032,065; July 9; Gaz. vol. 180; p. 402.
Lanterns, Sliding support for. J. Waldmann. No. 1,041,207; Oct. 15; Gaz. vol. 183; p. 585.
Lapping-machine. B. M. Rogers. No. 1,037,327; Sept. 3; Gaz. vol. 182; p. 50.
Lard compounds, Apparatus for chilling and whitening. J. N. Humphreys. No. 1,036,628; Aug. 27; Gaz. vol. 181; p. 859.
Last. A. G. Fitz. No. 1,016,986; Feb. 13; Sp. p. 1689; Gaz. vol. 175; p. 295.
Last. H. A. Ballard. No. 1,020,677; Mar. 19; Sp. p. 3557; Gaz. vol. 176; p. 626.
Last. E. Brothers. No. 1,021,821; Apr. 2; Sp. p. 157; Gaz. vol. 177; p. 26.
Last. G. W. Sampson. No. 1,024,600; Apr. 30; Sp. p. 6179; Gaz. vol. 177; p. 1090.
Last. J. L. Towne and J. W. O'Neill. No. 1,033,041; July 16; Gaz. vol. 180; p. 837.
Last. E. L. Goding. No. 1,048,525; Dec. 31; Gaz. vol. 185; p. 1079.
Last and last-support. T. Rendle. No. 1,023,760; Apr. 16; Sp. p. 4204; Gaz. vol. 177; p. 738.
Last and shoe-treeing machine. E. J. Prindle. No. 1,030,206; June 18; Sp. p. 4652; Gaz. vol. 179; p. 800.
Last and upper protector. W. G. Parker. No. 1,032,422; July 16; Gaz. vol. 180; p. 628.
Last for making shoes, Sectional. E. J. Bliss and E. F. White. No. 1,018,959; Feb. 27; Sp. p. 6038; Gaz. vol. 175; p. 1041.
Last-lathe. E. J. Prindle. No. 1,017,798; Feb. 20; Sp. p. 3468; Gaz. vol. 175; p. 610.
Last-lock. E. O. Krentler. No. 1,017,058; Feb. 13; Sp. p. 1841; Gaz. vol. 175; p. 319.
Last, Machine for working an upper over a. R. F. McFeely. No. 1,030,264; June 18; Sp. p. 4771; Gaz. vol. 179; p. 821.
Last, Repairing and stretching. J. Heuyard. No. 1,016,827; Feb. 6; Sp. p. 1318; Gaz. vol. 175; p. 203.
Last, Shoe-. I. A. Cook. No. 1,019,602; Mar. 5; Sp. p. 1329; Gaz. vol. 176; p. 200.
Last, Shoe-. J. S. Busky, Jr. No. 1,023,718; Apr. 16; Sp. p. 4133; Gaz. vol. 177; p. 725.
Last, Shoe-. O. Paulsrud. No. 1,048,426; Dec. 24; Gaz. vol. 185; p. 1005.
Last, Two-part. A. M. Leighton. No. 1,025,197; May 7; Sp. p. 193; Gaz. vol. 178; p. 33.
Lasts, Making molds for shoe-. G. Volnagel. No. 1,027,016; May 21; Sp. p. 4262; Gaz. vol. 178; p. 727.
Lasts, Rotatable tool for beating uppers on. R. E. Crain and H. L. Heckmann. No. 1,039,033; Sept. 17; Gaz. vol. 182; p. 696.

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Lasting apparatus. B. F. Stuber. No. 1,029,242; June 11; Sp. p. 2544; Gaz. vol. 179; p. 431.
Lasting-machine. A. Bates. No. 1,014,632; Jan. 16; Sp. p. 3438; Gaz. vol. 174; p. 591.
Lasting-machine. J. Party. No. 1,016,769; Feb. 6; Sp. p. 1206; Gaz. vol. 175; p. 185.
Lasting-machine. E. E. Winkley and F. L. Alley. No. 1,017,124; Feb. 13; Sp. p. 1992; Gaz. vol. 175; p. 343.
Lasting-machine. E. E. Winkley and J. C. Smith. No. 1,018,022; Feb. 20; Sp. p. 3970; Gaz. vol. 175; p. 688.
Lasting-machine. E. E. Winkley. No. 1,018,023; Feb. 20; Sp. p. 3973; Gaz. vol. 175; p. 688.
Lasting-machine. E. E. Winkley and F. L. Alley. No. 1,018,025; Feb. 20; Sp. p. 3981; Gaz. vol. 175; p. 689.
Lasting-machine. M. Brock. No. 1,018,477; Feb. 27; Sp. p. 4957; Gaz. vol. 175; p. 876.
Lasting-machine. J. E. Crisp. No. 1,018,965; Feb. 27; Sp. p. 6051; Gaz. vol. 175; p. 1043.
Lasting-machine. M. Brock. No. 1,019,125; Mar. 5; Sp. p. 260; Gaz. vol. 176; p. 41.
Lasting-machine. A. Bates. No. 1,020,474; Mar. 19; Sp. p. 3100; Gaz. vol. 176; p. 560.
Lasting-machine. A. Bates. No. 1,020,631; Mar. 19; Sp. p. 3461; Gaz. vol. 176; p. 611.
Lasting-machine. A. Bates. No. 1,021,086; Mar. 26; Sp. p. 4409; Gaz. vol. 176; p. 818.
Lasting-machine. M. Brock. No. 1,021,860; Apr. 2; Sp. p. 235; Gaz. vol. 177; p. 38.
Lasting-machine. W. Chick. No. 1,022,402; Apr. 9; Sp. p. 1356; Gaz. vol. 177; p. 248.
Lasting-machine. A. E. Jerram. No. 1,022,420; Apr. 9; Sp. p. 1408; Gaz. vol. 177; p. 254.
Lasting-machine. L. M. Brown. No. 1,028,990; June 11; Sp. p. 2007; Gaz. vol. 179; p. 346.
Lasting-machine. E. L. Keyes. No. 1,029,197; June 11; Sp. p. 2441; Gaz. vol. 179; p. 415.
Lasting-machine. C. S. Norden. No. 1,029,396; June 11; Sp. p. 2905; Gaz. vol. 179; p. 485.
Lasting-machine. A. Bates. No. 1,029,840; June 18; Sp. p. 3869; Gaz. vol. 179; p. 675.
Lasting-machine. J. M. Barton and P. J. Landry. No. 1,030,048; June 18; Sp. p. 4323; Gaz. vol. 179; p. 747.
Lasting-machine. M. V. Bresnahan. No. 1,030,382; June 25; Sp. p. 5060; Gaz. vol. 179; p. 903.
Lasting-machine. M. Brock. No. 1,030,564; June 25; Sp. p. 5524; Gaz. vol. 179; p. 966.
Lasting-machine. E. E. Winkley. No. 1,030,629; June 25; Sp. p. 5783; Gaz. vol. 179; p. 992.
Lasting-machine. T. K. Keith. No. 1,030,820; June 25; Sp. p. 6309; Gaz. vol. 179; p. 1060.
Lasting-machine. T. K. Keith. No. 1,030,821; June 25; Sp. p. 6316; Gaz. vol. 179; p. 1061.
Lasting-machine. T. K. Keith. No. 1,030,822; June 25; Sp. p. 6322; Gaz. vol. 179; p. 1061.
Lasting-machine. A. L. Russell. No. 1,032,948; July 16; Gaz. vol. 180; p. 805.
Lasting-machine. G. Bergman. No. 1,034,757; Aug. 6; Gaz. vol. 181; p. 119.
Lasting-machine. C. Keighley. No. 1,037,018; Aug. 27; Gaz. vol. 181; p. 990.
Lasting-machine. P. A. M. Kiener. No. 1,042,799; Oct. 29; Gaz. vol. 183; p. 1189.
Lasting machine, Assembling and heel-seat-. C. S. Norden. No. 1,030,847; June 25; Sp. p. 6427; Gaz. vol. 179; p. 1071.
Lasting-machine attachment, Shoe-. R. Bunyan. No. 1,022,299; Apr. 2; Sp. p. 1141; Gaz. vol. 177; p. 183.
Lasting machine, Boot and shoe. H. Raab. No. 1,036,146; Aug. 20; Gaz. vol. 181; p. 661.
Lasting-machine holddown. M. Cook. No. 1,047,387; Dec. 17; Gaz. vol. 185; p. 622.
Lasting-machine pincers. E. E. Winkley. No. 1,018,024; Feb. 20; Sp. p. 3979; Gaz. vol. 175; p. 689.
Lasting-machine tack-saver. E. J. Young. No. 1,030,220; June 18; Sp. p. 4678; Gaz. vol. 179; p. 805.
Lasting mechanism. A. A. Macleod. No. 1,030,519; June 25; Sp. p. 5407; Gaz. vol. 179; p. 951.
Lasting mechanism, End-. D. L. Wineberg. No. 1,027,024; May 21; Sp. p. 4291; Gaz. vol. 178; p. 730.
Lasting mechanism, End-. M. Brock. No. 1,030,562; June 25; Sp. p. 5518; Gaz. vol. 179; p. 966.
Lasting mechanism, End-. C. E. Grush. No. 1,032,824; July 16; Gaz. vol. 180; p. 765.
Lasting-pincer mechanism, Shoe-. A. H. Kline. No. 1,039,544; Sept. 24; Gaz. vol. 182; p. 892.
Lasting-plate clamp. C. G. Johnson. No. 1,022,421; Apr. 9; Sp. p. 1421; Gaz. vol. 177; p. 255.
Latch. C. Atkinson. No. 1,013,104; Jan. 2; Sp. p. 16; Gaz. vol. 174; p. 5.
Latch. W. Moege. No. 1,021,258; Mar. 26; Sp. p. 4786; Gaz. vol. 176; p. 874.
Latch. S. Ducsay. No. 1,022,831; Apr. 9; Sp. p. 2315; Gaz. vol. 177; p. 395.
Latch. R. F. Cook. No. 1,023,624; Apr. 16; Sp. p. 3978; Gaz. vol. 177; p. 699.
Latch. W. Larsen and L. T. Larson. No. 1,047,091; Dec. 10; Gaz. vol. 185; p. 485.
Latch and adjuster, Casement. D. E. Hunter. No. 1,032,906; July 16; Gaz. vol. 180; p. 792.
Latch and handle, Combined. V. W. Peel. No. 1,015,338; Jan. 23; Sp. p. 4974; Gaz. vol. 174; p. 858.
Latch and lock. W. Kraft. No. 1,041,305; Oct. 15; Gaz. vol. 183; p. 619.
Latch and lock, Combined self-adjusting night-. H. G. Voight. No. 1,042,297; Oct. 22; Gaz. vol. 183; p. 985.
Latch and lock for screen-doors, &c., Combined. J. T. and J. D. Hart. No. 1,036,100; Aug. 20; Gaz. vol. 181; p. 643.
Latch and lock for sliding doors, &c., Combined. D. Schuyler and H. Laughlin, Jr. No. 1,047,454; Dec. 17; Gaz. vol. 185; p. 645.
Latch and lock mechanism. G. N. Mason. No. 1,033,028; July 16; Gaz. vol. 180; p. 832.
Latch, Bolt-. J. L. Pfleegor. No. 1,033,118; July 23; Gaz. vol. 180; p. 902.
Latch-bolt lock. W. H. Eisenhart. No. 1,014,583; Jan. 9; Sp. p. 3249; Gaz. vol. 174; p. 542.
Latch, Car-door. L. J. McCloskey. No. 1,020,107; Mar. 12; Sp. p. 2349; Gaz. vol. 176; p. 402.
Latch, Door-. F. J. Lee. No. 1,018,716; Feb. 27; Sp. p. 5530; Gaz. vol. 175; p. 958.
Latch, Door-. G. T. Buddle. No. 1,022,769; Apr. 9; Sp. p. 2186; Gaz. vol. 177; p. 375.
Latch, Door-. S. Zacsek. No. 1,026,233; May 14; Sp. p. 2526; Gaz. vol. 178; p. 423.
Latch, Door-. J. J. Malone. No. 1,033,110; July 23; Gaz. vol. 180; p. 899.
Latch, Door-. H. Brandley. No. 1,035,077; Aug. 6; Gaz. vol. 181; p. 224.
Latch, Door-. W. Petersen. No. 1,042,140; Oct. 22; Gaz. vol. 183; p. 934.
Latch, Elevated-carrier. M. B. Moyer. No. 1,043,786; Nov. 5; Gaz. vol. 184; p. 259.
Latch for board drop-hammers, Safety-. H. E. Derbyshire. No. 1,037,735; Sept. 3; Gaz. vol. 182; p. 187.
Latch for elevator-doors. C. M. Peelle. No. 1,032,498; July 16; Gaz. vol. 180; p. 653.
Latch for flexible gates. W. K. Voorhees. No. 1,025,494; May 7; Sp. p. 870; Gaz. vol. 178; p. 135.
Latch for sliding doors. R. P. Hill. No. 1,033,891; July 30; Gaz. vol. 180; p. 1187.
Latch, Gate-. P. Frantz. No. 1,014,290; Jan. 9; Sp. p. 2667; Gaz. vol. 174; p. 444.
Latch, Gate-. E. Raaths. No. 1,022,872; Apr. 9; Sp. p. 2389; Gaz. vol. 177; p. 408.
Latch, Gate-. G. W. and C. E. Goss. No. 1,023,308; Apr. 16; Sp. p. 3342; Gaz. vol. 177; p. 597.
Latch, Gate-. A. W. Sprague and T. E. Mulroyan. No. 1,024,705; Apr. 30; Sp. p. 6392; Gaz. vol. 177; p. 1126.
Latch, Gate-. H. T. Wilkes. No. 1,028,646; June 4; Sp. p. 1255; Gaz. vol. 179; p. 193.
Latch, Gate-. W. G. Beatty. No. 1,032,371; July 16; Gaz. vol. 180; p. 612.
Latch, Gate-. A. S. Croyle. No. 1,032,883; July 16; Gaz. vol. 180; p. 785.
Latch, Gate-. H. S. Higdon. No. 1,040,677; Oct. 8; Gaz. vol. 183; p. 376.
Latch, Gate-. E. J. Thompson. No. 1,044,604; Nov. 19; Gaz. vol. 184; p. 604.
Latch, Gate-. H. D. Moïse. No. 1,044,684; Nov. 19; Gaz. vol. 184; p. 633.
Latch handles, Means for securing door-. F. Haizmann. No. 1,015,679; Jan. 23; Sp. p. 5702; Gaz. vol. 174; p. 975.
Latch-lever. W. C. Azbill. No. 1,033,145; July 23; Gaz. vol. 180; p. 911.
Latch-lock. J. Robertson. No. 1,045,891; Dec. 3; Gaz. vol. 185; p. 33.
Latch mechanism. B. Ludwig. No. 1,025,756; May 7; Sp. p. 1432; Gaz. vol. 178; p. 224.
Latch, Night-. D. W. Weed. No. 1,017,238; Feb. 13; Sp. p. 2250; Gaz. vol. 175; p. 383.
Latch, Night-. F. Soley. No. 1,024,371; Apr. 23; Sp. p. 5560; Gaz. vol. 177; p. 975.
Latch, Night-. H. G. Voight. No. 1,024,479; Apr. 23; Sp. p. 5829; Gaz. vol. 177; p. 1013.
Latch, Night-. D. W. Weed. No. 1,042,062; Oct. 22; Gaz. vol. 183; p. 908.
Latch, Rim-. G. N. Mason. No. 1,021,417; Mar. 26; Sp. p. 5146; Gaz. vol. 176; p. 931.
Latch, Rim night-. E. Rose. No. 1,040,764; Oct. 8; Gaz. vol. 183; p. 403.
Latch, Sliding-door. B. Lauritsen. No. 1,016,422; Feb. 6; Sp. p. 411; Gaz. vol. 175; p. 65.
Latch, Sliding-door. J. A. Giese. No. 1,029,748; June 18; Sp. p. 3652; Gaz. vol. 179; p. 644.
Latch, Sliding-door. C. Eytalis. No. 1,044,872; Nov. 19; Gaz. vol. 184; p. 698.
Latch, Spring-. E. W. Bassick. No. 1,019,216; Mar. 5; Sp. p. 463; Gaz. vol. 176; p. 74.
Latch, Spring-. E. W. Bassick and R. A. L. Adams. No. 1,019,217; Mar. 5; Sp. p. 464; Gaz. vol. 176; p. 74.
Latch, Store-door. G. N. Mason. No. 1,048,845; Dec. 31; Gaz. vol. 185; p. 1190.
Latch structure. C. J. Parsons. No. 1,042,030; Oct. 22; Gaz. vol. 183; p. 899.
Latch, Vehicle door-. J. J. Malone. No. 1,035,617; Aug. 13; Gaz. vol. 181; p. 442.

Alphabetical list of inventions—Continued.

Latches for double doors. B. W. Johnson. No. 1,013,553; Jan. 2; Sp. p. 1009; Gaz. vol. 174; p. 162.
Latches, Keeper for door and gate. A. Johnson. No. 1,043,236; Nov 5; Gaz. vol. 184; p. 68.
Latex-hack. J. D. Gadelha. No. 1,047,753; Dec. 17; Gaz. vol. 185; p. 753.
Lath. J. S. and R. Anderson. No. 1,014,557; Jan. 9; Sp. p. 3202; Gaz. vol. 174; p. 533.
Lath, Clip for attaching metallic. H. E. White. No. 1,027,632; May 28; Sp. p. 5563; Gaz. vol. 178; p. 972.
Lath, Forming ribbed. T. H. Kane. No. 1,039,954; Oct. 1; Gaz. vol. 183; p. 94.
Lath, Metal. M. Kühne. No. 1,042,127; Oct. 22; Gaz. vol. 183; p. 930.
Lath, Metallic. M. S. Goldsmith. No. 1,029,864; June 18; Sp. p. 3926; Gaz. vol. 179; p. 683.
Lath, Self-furring metallic. H. E. White. No. 1,014,616; Jan. 9; Sp. p. 3341; Gaz. vol. 174; p. 554.
Lath-supporting device. J. B. Johnson. No. 1,036,522; Aug. 20; Gaz. vol. 181; p. 792.
Lathing-securing tack-strip. A. H. Gilmore. No. 1,023,837; Apr. 23; Sp. p. 4419; Gaz. vol. 177; p. 794.
Lathe. G. W. Swisher. No. 1,020,329; Mar. 12; Sp. p. 2794; Gaz. vol. 176; p. 473.
Lathe. N. D. Chard. No. 1,022,721; Apr. 9; Sp. p. 2087; Gaz. vol. 177; p. 358.
Lathe. E. L. Mills. No. 1,027,496; May 28; Sp. p. 5289; Gaz. vol. 178; p. 927.
Lathe. A. E. Newton. No. 1,031,284; July 2; Gaz. vol. 180; p. 154.
Lathe. N. D. Chard. No. 1,036,190; Aug. 20; Gaz. vol. 181; p. 676.
Lathe. O. W. Schaum. No. 1,042,149; Oct. 22; Gaz. vol. 183; p. 937.
Lathe. R. K. Le Blond and W. F. Groene. No. 1,044,544; Nov. 19; Gaz. vol. 184; p. 583.
Lathe. D. L. Calahan. No. 1,045,370; Nov. 26; Gaz. vol. 184; p. 899.
Lathe. G. J. Costello. No. 1,045,524; Nov. 26; Gaz. vol. 184; p. 955.
Lathe accessory. W. Ruppert. No. 1,033,943; July 30; Gaz. vol. 180; p. 1205.
Lathe appliance. G. E. Greenleaf. No. 1,021,771; Apr. 2; Sp. p. 32; Gaz. vol. 177; p. 8.
Lathe attachment. R. E. Garrett. No. 1,024,254; Apr. 23; Sp. p. 5361; Gaz. vol. 177; p. 939.
Lathe attachment. R. Hughes. No. 1,028,728; June 4; Sp. p. 1415; Gaz. vol. 179; p. 220.
Lathe attachment. J. M. Palmer. No. 1,030,323; June 25; Sp. p. 4939; Gaz. vol. 179; p. 881.
Lathe attachment. G. Walker. No. 1,030,439; June 25; Sp. p. 5189; Gaz. vol. 179; p. 923.
Lathe attachment. G. W. Safely. No. 1,048,891; Dec. 31; Gaz. vol. 185; p. 1206.
Lathe attachment, Turret-. C. L. Goodrich. No. 1,041,994; Oct. 22; Gaz. vol. 183; p. 886.
Lathe, Automatic jar-ring. A. J. Wills. No. 1,036,763; Aug. 27; Gaz. vol. 181; p. 904.
Lathe-center. L. S. Rich. No. 1,020,311; Mar. 12; Sp. p. 2767; Gaz. vol. 176; p. 469.
Lathe centering-gage, Copying-. H. and E. Winkle. No. 1,033,648; July 23; Gaz. vol. 180; p. 1079.
Lathe centering-tool. D. L. Calahan. No. 1,038,721; Sept. 17; Gaz. vol. 182; p. 591.
Lathe cone-center. T. H. Mack. No. 1,015,811; Jan. 30; Sp. p. 5984; Gaz. vol. 174; p. 1047.
Lathe, Crank-shaft. H. P. Arnhold and A. P. Witteman. No. 1,015,117; Jan. 16; Sp. p. 4495; Gaz. vol. 174; p. 757.
Lathe-dog. R. H. West. No. 1,032,639; July 16; Gaz. vol. 180; p. 702.
Lathe-dog. M. Ross. No. 1,032,705; July 16; Gaz. vol. 180; p. 726.
Lathe-dog. J. Lenz. No. 1,035,979; Aug. 20; Gaz. vol. 181; p. 601.
Lathe-dog. E. J. Michand. No. 1,038,409; Sept. 10; Gaz. vol. 182; p. 448.
Lathe-dog, Safety. F. C. Billings. No. 1,044,856; Nov. 19; Gaz. vol. 184; p. 691.
Lathe-dog, Safety. G. J. Willett. No. 1,046,525; Dec. 10; Gaz. vol. 185; p. 293.
Lathe-driver. D. H. Teas and G. T. Reiss. No. 1,013,908; Jan. 9; Sp. p. 1828; Gaz. vol. 174; p. 313.
Lathe, Extension-gap engine-. W. L. Fay. No. 1,031,635; July 2; Gaz. vol. 180; p. 273.
Lathe-former. G. E. Greenleaf. No. 1,018,184; Feb. 20; Sp. p. 4349; Gaz. vol. 175; p. 746.
Lathe-gearing. R. K. Le Blond and W. F. Groene. No. 1,044,545; Nov. 19; Gaz. vol. 184; p. 583.
Lathe-grinding attachment. P. Spiegel. No. 1,047,717; Dec. 17; Gaz. vol. 185; p. 740.
Lathe head-stocks, Attachment for. C. E. De Long. No. 1,014,051; Jan. 9; Sp. p. 2159; Gaz. vol. 174; p. 360.
Lathe, Metal-turning. S. W. Putnam, 3d. No. 1,042,268; Oct. 22; Gaz. vol. 183; p. 976.
Lathe recessing-tool. G. E. Miller. No. 1,035,221; Aug. 13; Gaz. vol. 181; p. 305.
Lathe scoring attachment, Veneer-. J. Van Mill, Jr. No. 1,027,298; May 21; Sp. p. 4891; Gaz. vol. 178; p. 823.
Lathe screw-machine. G. K. Atkinson. No. 1,029,485; June 11; Sp. p. 3074; Gaz. vol. 179; p. 515.
Lathe-spindle gearing. J. C. Potter. No. 1,038,787; Sept. 17; Gaz. vol. 182; p. 614.
Lathe, Spindle-turning. C. H. Waymoth. No. 1,022,450; Apr. 9; Sp. p. 1474; Gaz. vol. 177; p. 265.
Lathe, Stone-cutting. F. A. Grearson. No. 1,042,217; Oct. 22; Gaz. vol. 183; p. 960.
Lathe stop mechanism, Turret-. H. Dreses. No. 1,017,859; Feb. 20; Sp. p. 3596; Gaz. vol. 175; p. 630.
Lathe-tool. R. R. Shapley. No. 1,021,899; Apr. 2; Sp. p. 315; Gaz. vol. 177; p. 52.
Lathe-tool. F. O. Jaques, Jr. No. 1,034,367; July 30; Gaz. vol. 180; p. 1354.
Lathe tool-holder. J. W. Houseberg. No. 1,017,974; Feb. 20; Sp. p. 3885; Gaz. vol. 175; p. 672.
Lathe-tool-setting apparatus. L. Tabor and H. K. Hathaway. No. 1,017,703; Feb. 20; Sp. p. 3202; Gaz. vol. 175; p. 575.
Lathe-turning attachment. C. L. Dickert. No. 1,030,981; July 2; Gaz. vol. 180; p. 46.
Lathe, Turret-. H. Lauf and M. Kleber. No. 1,037,935; Sept. 10; Gaz. vol. 182; p. 288.
Lathe, Turret-. E. Vahle. No. 1,041,203; Oct. 15; Gaz. vol. 183; p. 583.
Lathe turret attachment, Engine-. H. Newmann. No. 1,037,298; Sept. 3; Gaz. vol. 182; p. 40.
Lathe, Wheel-. E. G. Yeates. No. 1,043,997; Nov. 12; Gaz. vol. 184; p. 366.
Lathes, &c., Adjustable driver or carrier for. N. W. Baechle. No. 1,022,118; Apr. 2; Sp. p. 777; Gaz. vol. 177; p. 123.
Lathes, Feed mechanism for automatic. A. H. Smith. No. 1,019,542; Mar. 5; Sp. p. 1219; Gaz. vol. 176; p. 181.
Lathes, Gearing for. J. M. Tatman. No. 1,031,396; July 2; Gaz. vol. 180; p. 192.
Lathes, Milling attachment for metal-. H. G. Haase. No. 1,038,571; Sept. 17; Gaz. vol. 182; p. 537.
Lathes, Piston-ring-turning attachment for turret-. J. C. Potter. No. 1,026,455; May 14; Sp. p. 3017; Gaz. vol. 178; p. 497.
Lathes, Revolving dead-center for. J. W. Outterside. No. 1,032,496; July 16; Gaz. vol. 180; p. 653.
Lathes, Screw compensating device for. E. Rivett. No. 1,045,890; Dec. 3; Gaz. vol. 185; p. 33.
Lathes, Turret rotating, centering, and locking mechanism for turret-. W. L. Miller. No. 1,047,270; Dec. 17; Gaz. vol. 185; p. 581.
Lathes, Turret-slide-operating mechanism for automatic turret-. J. C. Potter. No. 1,040,751; Oct. 8; Gaz. vol. 183; p. 399.
Latitude instrument. M. Cheifetz. No. 1,034,767; Aug. 6; Gaz. vol. 181; p. 123.
Latrine. E. B. Bartlett. No. 1,019,587; Mar. 5; Sp. p. 1302; Gaz. vol. 176; p. 195.
Latrine. W. M. Sullivan. No. 1,026,413; May 14; Sp. p. 2928; Gaz. vol. 178; p. 485.
Lattice-girders, Manufacturing. W. Dickel and F. Ebener. No. 1,047,766; Dec. 17; Gaz. vol. 185; p. 757.
Laundry conveyer-drop. W. W. Quinn. No. 1,019,086; Mar. 5; Sp. p. 175; Gaz. vol. 176; p. 28.
Laundry conveyer-drop. W. W. Quinn. No. 1,041,870; Oct. 22; Gaz. vol. 183; p. 845.
Laundry-drier. G. W. Froelich. No. 1,034,610; Aug. 6; Gaz. vol. 181; p. 68.
Laundry-extractors, Attachment for. R. M. Moore. No. 1,015,392; Jan. 23; Sp. p. 5084; Gaz. vol. 174; p. 876.
Laundry-iron. N. E. Walker. No. 1,017,933; Feb. 20; Sp. p. 3790; Gaz. vol. 175; p. 658.
Laundry-machine-driving mechanism. P. T. Coffield. No. 1,036,192; Aug. 20; Gaz. vol. 181; p. 677.
Laundry-machinery gearing. A. B. Christensen and F. Vondrasek. No. 1,025,684; May 7; Sp. p. 1278; Gaz. vol. 178; p. 198.
Laundry-machinery gearing. A. B. Christensen and F. Vondrasek. No. 1,025,685; May 7; Sp. p. 1283; Gaz. vol. 178; p. 199.
Laundry-marking machine. C. R. Dodge. No. 1,047,005; Dec. 10; Gaz. vol. 185; p. 456.
Laundry-roll, Electrically-heated. W. S. Hadaway, Jr. No. 1,042,433; Oct. 29; Gaz. vol. 183; p. 1060.
Laundry-stick. M. G. Delaney. No. 1,046,151; Dec. 3; Gaz. vol. 185; p. 121.
Laundry-wrap. F. H. Loveless. No. 1,048,554; Dec. 31; Gaz. vol. 185; p. 1088.
Laundry wrapper or package for men's shirts. L. Herman. No. 1,018,905; Feb. 27; Sp. p. 5931; Gaz. vol. 175; p. 1022.
Laundrying-machine. W. J. Zuill. No. 1,021,498; Mar. 26; Sp. p. 5320; Gaz. vol. 176; p. 959.
Lava vapor-tube. J. L. R. Hayden. No. 1,047,520; Dec. 17; Gaz. vol. 185; p. 670.
Lavatory. E. E. Carter. No. 1,028,327; June 4; Sp. p. 572; Gaz. vol. 179; p. 85.
Lavatory. H. M. Weaver. No. 1,039,855; Oct. 1; Gaz. vol. 183; p. 63.
Lavatory and sanitary drinking-cup, Combined. J. H. Gavin. No. 1,031,843; July 9; Gaz. vol. 180; p. 388.
Lavatory-fittings, Supply-pipe for. A. C. Schuermann. No. 1,017,813; Feb. 20; Sp. p. 3494; Gaz. vol. 175; p. 614.

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Lavatory-fixture. E. G. Watrous. No. 1,016,051; Jan. 30; Sp. p. 6503; Gaz. vol. 174; p. 1131.
Lavatory-fixture. W. A. Speakman. No. 1,036,022; Aug. 20; Gaz. vol. 181; p. 614.
Lavatory installations, Apparatus for. P. Kämmer. No. 1,027,342; May 21; Sp. p. 4970; Gaz. vol. 178; p. 837.
Lawn-sprinkler. C. C. Armstrong. No. 1,014,434; Jan. 9; Sp. p. 2986; Gaz. vol. 174; p. 495.
Lawn-sprinkler. W. V. Thompson. No. 1,046,348; Dec. 3; Gaz. vol. 185; p. 192.
Lawn-sprinkler and adjustable support, Automatic hose-regulating. P. P. Stack. No. 1,037,557; Sept. 3; Gaz. vol. 182; p. 129.
Lawn-trimmer. F. E. Nelson. No. 1,018,073; Feb. 20; Sp. p. 4106; Gaz. vol. 175; p. 707.
Lawn-trimmer. O. Karcher. No. 1,037,634; Sept. 3; Gaz. vol. 182; p. 153.
Laying and leveling machine. T. G. Plant. No. 1,041,668; Oct. 15; Gaz. vol. 183; p. 737.
Lead. C. A. Gaiser. No. 1,027,381; May 21; Sp. p. 5055; Gaz. vol. 178; p. 851.
Lead and purifying and improving the same. A. J. Rossi. No. 1,020,514; Mar. 19; Sp. p. 3187; Gaz. vol. 176; p. 572.
Lead, Apparatus for separating dross from molten. J. O. Bardill. No. 1,013,635; Jan. 2; Sp. p. 1182; Gaz. vol. 174; p. 188.
Lead-compound production. L. S. Hughes. No. 1,033,405; July 23; Gaz. vol. 180; p. 999.
Lead, Manufacturing arsenate of. E. O. Barstow. No. 1,014,742; Jan. 16; Sp. p. 3680; Gaz. vol. 174; p. 628.
Lead, Obtaining refined. J. Asbeck. No. 1,025,956; May 14; Sp. p. 1899; Gaz. vol. 178; p. 327.
Lead pigments, Apparatus for the production of. J. W. Bailey. No. 1,031,160; July 2; Gaz. vol. 180; p. 111.
Lead-ring. F. P. Williams. No. 1,017,030; Feb. 13; Sp. p. 1775; Gaz. vol. 175; p. 309.
Lead-sharpener. C. A. Gaiser. No. 1,014,141; Jan. 9; Sp. p. 2341; Gaz. vol. 174; p. 392.
Leaf-turner. B. M. Adams. No. 1,021,288; Mar. 26; Sp. p. 4848; Gaz. vol. 176; p. 885.
Leaf-turner. H. Jessen. No. 1,033,802; July 30; Gaz. vol. 180; p. 1155.
Leaf-turner. E. M. Fraser. No. 1,037,175; Aug. 27; Gaz. vol 181; p. 1042.
Leaf-turner. W. Morris. No. 1,046,628; Dec. 10; Gaz. vol 185; p. 328.
Leaf-turner, Automatic. J. A. Andrew. No. 1,022,921; Apr. 9; Sp. p. 2495; Gaz. vol. 177; p. 425.
Leak-stopper. M. E. Sherland. No. 1,041,891; Oct. 22; Gaz. vol. 183; p. 853.
Leakage-reducing device. W. Kieser. No. 1,041,485; Oct. 15; Gaz. vol. 183; p. 677.
Lease-rod support, Movable-. A. H. Sawtell. No. 1,022,382; Apr. 2; Sp. p. 1307; Gaz. vol. 177; p. 211.
Leather and like products, Manufacturing artificial belt or sole. E. Reidel. No. 1,048,342; Dec. 24; Gaz. vol. 185; p. 978.
Leather and preparing it, Glove-. E. Simon. No. 1,021,380; Mar. 26; Sp. p. 5018; Gaz. vol. 176; p. 916.
Leather and product thereof, Treating. W. R. Smith. No. 1,025,324; May 7; Sp. p. 488; Gaz. vol. 178; p. 76.
Leather, &c., Apparatus for baking or curing patent-. W. R. Smith. No. 1,045,623; Nov. 26; Gaz. vol. 184; p. 990.
Leather-board machine. R. A. Lancey. No. 1,016,945; Feb. 13; Sp. p. 1585; Gaz. vol. 175; p. 280.
Leather-board, Producing stock for making. A. L. Clapp. No. 1,046,555; Dec. 10; Gaz. vol. 185; p. 303.
Leather-board, Production of stock for. A. L. Clapp. No. 1,033,538; July 23; Gaz. vol. 180; p. 1042.
Leather-board stock, Production of. A. L. Clapp. No. 1,021,660; Mar. 26; Sp. p. 5622; Gaz. vol. 176; p. 1011.
Leather brushing and cleaning machine. W. R. Smith. No. 1,021,007; Mar. 26; Sp. p. 4255; Gaz. vol. 176; p. 790.
Leather club-bag, chatelaine, &c. I. Holman. No. 1,032,677; July 16; Gaz. vol. 180; p. 716.
Leather, &c., Compound for polishing. H. Schäfer. No. 1,036,728; Aug. 27; Gaz. vol. 181; p. 893.
Leather-cutting machine. W. C. Stewart. No. 1,030,621; June 25; Sp. p. 5748; Gaz. vol. 179; p. 989.
Leather, fabrics, &c., Composition of matter for the treatment of. D. O'Keefe. No. 1,020,927; Mar. 19; Sp. p. 4071; Gaz. vol. 176; p. 711.
Leather, fabrics, &c., Making a composition of matter for the treatment of. D. O'Keefe. No. 1,020,926; Mar. 19; Sp. p. 4070; Gaz. vol. 176; p. 711.
Leather, Finishing the raw edges of. E. S. Halsey and G. G. Perkins. No. 1,047,211; Dec. 17; Gaz. vol. 185; p. 566.
Leather-loop-finishing press. A. L. Lilley. No. 1,027,552; May 28; Sp. p. 5401; Gaz. vol. 178; p. 946.
Leather, Machine for forming ornamental indentations upon. F. F. Dorsey. No. 1,048,506; Dec. 31; Gaz. vol. 185; p. 1072.
Leather, Making firm, almost entirely waterproof, non-slipping. F. Kornacher. No. 1,036,267; Aug. 20; Gaz. vol. 181; p. 704.
Leather, Preparation of chrome-. A. Wolff. No. 1,028,451; Apr. 16; Sp. p. 3623; Gaz. vol. 177; p. 642.
Leather, Production of. E. E. M. Payne. No. 1,040,400; Oct. 8; Gaz. vol. 183; p. 275.
Leather-scarfing machine. J. F. Donnelly and H. Lyon. No. 1,018,171; Feb. 20; Sp. p. 4313; Gaz. vol. 175; p. 741.
Leather-shaving-machine cylinder. C. A. Lougee. No. 1,016,279; Feb. 6; Sp. p. 102; Gaz. vol. 175; p. 16.
Leather-skiving machine. H. W. Winter. No. 1,025,556; May 7; Sp. p. 1010; Gaz. vol. 178; p. 156.
Leather-splitting machine. J. H. Gay. No. 1,038,560; Sept. 17; Gaz. vol. 182; p. 534.
Leather-splitting machine. J. H. Gay. No. 1,038,561; Sept. 17; Gaz. vol. 182; p. 535.
Leather-staking machine. E. J. F. Quirin. No. 1,036,335; Aug. 20; Gaz. vol. 181; p. 727.
Leather-staking machine. A. C. Layman. No. 1,043,050; Oct. 29; Gaz. vol. 183; p. 1276.
Leather-stitching machine. B. H. Theisen and G. S. Keller. No. 1,024,162; Apr. 23; Sp. p. 5150; Gaz. vol. 177; p. 904.
Leather-stitching machine, Automatic. R. H. Rudolph. No. 1,019,364; Mar. 5; Sp. p. 826; Gaz. vol. 176; p. 124.
Leather-stretching-frame joint. W. Romünder. No. 1,015,402; Jan. 23; Sp. p. 5101; Gaz. vol. 174; p. 879.
Leather-waterproofing compound. P. F. Frost. No. 1,016,137; Jan. 30; Sp. p. 6680; Gaz. vol. 174; p. 1161.
Leather-working-machine roll. R. H. Harris. No. 1,041,074; Oct. 15; Gaz. vol. 183; p. 540.
Leather yarn and leather-yarn fabric. W. H. Drury. No. 1,014,623; Jan. 9; Sp. p. 3364; Gaz. vol. 174; p. 557.
Lecithin, Producing. H. C. Buer. No. 1,019,945; Mar. 12; Sp. p. 2010; Gaz. vol. 176; p. 347.
Ledger-card, Savings-bank. C. W. Rosenthal. No. 1,017,915; Feb. 20; Sp. p. 3752; Gaz. vol. 175; p. 652.
Leg, Artificial. C. A. Frees. No. 1,023,247; Apr. 16; Sp. p. 3219; Gaz. vol. 177; p. 575.
Leg, Artificial. G. E. Marks. No. 1,032,074; July 9; Gaz. vol. 180; p. 465.
Leg, Artificial. V. Lazzara. No. 1,044,542; Nov. 19; Gaz. vol. 184; p. 582.
Leg, Artificial. E. A. Bonar. No. 1,044,980; Nov. 19; Gaz. vol. 184; p. 734.
Leg-pulling apparatus. L. J. Le Jeune. No. 1,021,688; Mar. 26; Sp. p. 5670; Gaz. vol. 176; p. 1021.
Legging. R. Lesselbaum. No. 1,019,810; Mar. 12; Sp. p. 1726; Gaz. vol. 176; p. 302.
Legging. G. Ciociola. No. 1,028,329; June 4; Sp. p. 574; Gaz. vol. 179; p. 86.
Legging. I. Piles. No. 1,034,831; Aug. 6; Gaz. vol. 181; p. 145.
Legging. D. Austin. No. 1,037,407; Sept. 3; Gaz. vol. 182; p. 77.
Lemon-squeezer. M. M. Haskell. No. 1,046,590; Dec. 10; Gaz. vol. 185; p. 315.
Lens. G. A. H. Kellner. No. 1,021,104; Mar. 26; Sp. p. 4442; Gaz. vol. 176; p. 822.
Lens. W. Churchill. No. 1,033,780; July 30; Gaz. vol. 180; p. 1146.
Lens. W. Churchill. No. 1,033,781; July 30; Gaz. vol. 180; p. 1147.
Lens-adjuster. E. S. Porter. No. 1,041,346; Oct. 15; Gaz. vol. 183; p. 632.
Lens and mounting therefor. S. Callison. No. 1,046,733; Dec. 10; Gaz. vol. 185; p. 366.
Lens-blanks, Making. W. I. Seymour. No. 1,026,182; May 14; Sp. p. 2401; Gaz. vol. 178; p. 405.
Lens blanks, Making bifocal-. W. I. Seymour. No. 1,024,486; Apr. 23; Sp. p. 5840; Gaz. vol. 177; p. 1016.
Lens-cutting machine. F. L. Higgins. No. 1,029,367; June 11; Sp. p. 2829; Gaz. vol. 179; p. 476.
Lens-cutting machines, Former and spindle for. G. H. Day. No. 1,019,308; Mar. 5; Sp. p. 679; Gaz. vol. 176; p. 106.
Lens, Glass. J. A. and G. Young, Jr. No. 1,025,774; May 7; Sp. p. 1460; Gaz. vol. 178; p. 230.
Lens grinders, Machine for cutting toric-. C. F. Wall and F. Harker. No. 1,033,640; July 23; Gaz. vol. 180; p. 1076.
Lens-grinding machine. W. K. Rogers. No. 1,037,992; Sept. 10; Gaz. vol. 182; p. 308.
Lens-grinding machine. B. F. Clark. No. 1,048,658; Dec. 31; Gaz. vol. 185; p. 1125.
Lens-holders, Clamping device for. C. Miller. No. 1,042,023; Oct. 22; Gaz. vol. 183; p. 897.
Lens-mount. C. L. Merry. No. 1,034,391; July 30; Gaz. vol. 180; p. 1362.
Lens objective, Quadruple-. P. Rudolph. No. 1,021,337; Mar. 26; Sp. p. 4947; Gaz. vol. 176; p. 903.
Lens, Signaling-. W. Churchill. No. 1,033,782; July 30; Gaz. vol. 180; p. 1147.
Lens system, Liquid-. A. Köhler. No. 1,028,224; June 4; Sp. p. 366; Gaz. vol. 179; p. 51.
Lens-testing instrument. H. L. De Zeng. No. 1,047,000; Dec. 10; Gaz. vol. 185; p. 454.
Lenses and the like, Retaining device for. E. J. Madden. No. 1,048,983; Dec. 31; Gaz. vol. 185; p. 1237.
Lenses, Instrument for centering, marking, and testing. W. M. Richards. No. 1,026,124; May 14; Sp. p. 2288; Gaz. vol. 178; p. 386.

Alphabetical list of inventions—Continued.

Lenses, Making multifocal. A. J. Bowers. No. 1,041,235; Oct. 15; Gaz. vol. 183; p. 593.
Lenses, Producing. R. Straubel. No. 1,048,227; Dec. 24; Gaz. vol. 185; p. 939.
Lenses simultaneously, Tool for grinding both fields of bifocal. C. C. Kriegh. No. 1,015,030; Jan. 16; Sp. p. 4325; Gaz. vol. 174; p. 727.
Let-off. H. J. Sattler. No. 1,019,993; Mar. 12; Sp. p. 2106; Gaz. vol. 176; p. 363.
Let-off, Friction. O. Dalfond. No. 1,024,064; Apr. 23; Sp. p. 4915; Gaz. vol. 177; p. 871.
Letter-board. T. W. Suddard. No. 1,034,163; July 30; Gaz. vol. 180; p. 1282.
Letter-box. W. B. Benham. No. 1,031,513; July 2; Gaz. vol. 180; p. 231.
Letter-box plate. F. F. Field. No. 1,020,194; Mar. 12; Sp. p. 2539; Gaz. vol. 176; p. 431.
Letter-box signal attachment. C. Bailey. No. 1,026,338; May 14; Sp. p. 2757; Gaz. vol. 178; p. 460.
Letter-drop, Door. G. E. Seymour. No. 1,032,304; July 9; Gaz. vol. 180; p. 543.
Letter-holder. W. L. West. No. 1,041,930; Oct. 22; Gaz. vol. 183; p. 866.
Letter-holder and envelop-opener. W. Silverman. No. 1,014,338; Jan. 9; Sp. p. 2792; Gaz. vol. 174; p. 462.
Letters, Forming composite strips for making metallic. V. C. Smith. No. 1,023,527; Apr. 16; Sp. p. 3767; Gaz. vol. 177; p. 666.
Letters, Making metallic. N. M. Stanley. No. 1,018,138; Feb. 20; Sp. p. 4245; Gaz. vol. 175; p. 729.
Levee-machine. W. R. Bordges. No. 1,022,768; Apr. 9; Sp. p. 2184; Gaz. vol. 177; p. 374.
Levees, dikes, &c., Leak-stop for. M. M. Neames. No. 1,039,579; Sept. 24; Gaz. vol. 182; p. 904.
Level. C. M. L. Larsen. No. 1,014,402; Jan. 9; Sp. p. 2927; Gaz. vol. 174; p. 485.
Level. J. Almgren. No. 1,015,608; Jan. 23; Sp. p. 5553; Gaz. vol. 174; p. 951.
Level. F. W. Dodds. No. 1,016,254; Feb. 6; Sp. p. 21; Gaz vol. 175; p. 6.
Level. J. F. Perlik. No. 1,017,457; Feb. 13; Sp. p. 2726; Gaz. vol. 175; p. 459.
Level. V. A. Wilson. No. 1,020,733; Mar. 19; Sp. p. 3677; Gaz. vol. 176; p. 647.
Level. B. F. Davis. No. 1,023,301; Apr. 16; Sp. p. 3327; Gaz. vol. 177; p. 594.
Level. W. L. Couture. No. 1,024,831; Apr. 30; Sp. p. 6658; Gaz. vol. 177; p. 1172.
Level. G. F. Harris. No. 1,025,086; Apr. 30; Sp. p. 7170; Gaz. vol. 177; p. 1257.
Level. C. Hill. No. 1,032,904; July 16; Gaz. vol. 180; p. 792.
Level. J. M. Ziegler. No. 1,033,143; July 23; Gaz. vol. 180; p. 910.
Level. A. Svenneby. No. 1,036,370; Aug. 20; Gaz. vol. 181; p. 739.
Level. W. E. Grotevant. No. 1,038,352; Sept. 10; Gaz. vol. 182; p. 427.
Level. J. D. Guilfoyle. No. 1,041,622; Oct. 15; Gaz. vol. 183; p. 720.
Level and pitch gage, Combined. C. W. Swick. No. 1,026,967; May 21; Sp. p. 4165; Gaz. vol. 178; p. 710.
Level and plumb, Combination. J. F. Carlson. No. 1,013,274; Jan. 2; Sp. p. 403; Gaz. vol. 174; p. 65.
Level and try-square, Combined. J. H. Blackwell. No. 1,015,536; Jan. 23; Sp. p. 5394; Gaz. vol. 174; p. 924.
Level, Combination-. A. D. Desilets. No. 1,029,744; June 18; Sp. p. 3644; Gaz. vol. 179; p. 642.
Level, Hydrostatic. B. B. Farnham. No. 1,045,385; Nov. 26; Gaz. vol. 184; p. 903.
Level, Illuminated spirit-. C. A. Murphy and M. W. Reynolds. No. 1,043,128; Nov. 5; Gaz. vol. 184; p. 28.
Level, Plumb-. R. L. Brooks. No. 1,035,944; Aug. 20; Gaz. vol. 181; p. 590.
Level, Plumb-. B. F. Yantis. No. 1,038,705; Sept. 17; Gaz. vol. 182; p. 585.
Level, Plumb-. A. Niedergang. No. 1,046,101; Dec. 3; Gaz. vol. 185; p. 104.
Level, Plumb-. J. R. Maynard and B. F. Massey. No. 1,046,622; Dec. 10; Gaz. vol. 185; p. 326.
Level, plumb, and grade-finder, Combined. D. W. L. Frank, Sr. No. 1,036,601; Aug. 27; Gaz. vol. 181; p. 851.
Level-rod. F. W. Willis. No. 1,014,547; Jan. 9; Sp. p. 3181; Gaz. vol. 174; p. 530.
Level, Shaft-. S. A. Barrickman and J. C. Holt. No. 1,018,863; Feb. 27; Sp. p. 5842; Gaz. vol. 175; p. 1008.
Level, Spirit-. G. Broadmore. No. 1,017,646; Feb. 20; Sp. p. 3088; Gaz. vol. 175; p. 558.
Level, Spirit-. A. Makowski. No. 1,018,719; Feb. 27; Sp. p. 5533; Gaz. vol. 175; p. 958.
Level, Spirit-. C. C. Finn. No. 1,027,532; May 28; Sp. p. 5364; Gaz. vol. 178; p. 939.
Level, Spirit-. C. C. Finn. No. 1,027,533; May 28; Sp. p. 5367; Gaz. vol. 178; p. 940.
Level, Spirit-. S. Dean. No. 1,038,536; Sept. 17; Gaz. vol. 182; p. 526.
Level-stand. H. Stamps. No. 1,030,938; July 2; Gaz. vol. 180; p. 30.
Level with a reflecting system, Spirit-. H. Wild. No. 1,034,049; July 30; Gaz. vol. 180; p. 1244.
Leveler, Cinder-. E. J. Best. No. 1,026,426; May 14; Sp. p. 2947; Gaz. vol. 178; p. 488.
Leveling device. J. Roake. No. 1,014,519; Jan. 9; Sp. p. 3137; Gaz. vol. 174; p. 522.
Leveling instrument. J. K. Park. No. 1,013,893; Jan. 9; Sp. p. 1794; Gaz. vol. 174; p. 308.
Lever. C. B. Purdy. No. 1,027,761; May 28; Sp. p. 5827; Gaz. vol. 178; p. 1014.
Lever. G. W. Hutchinson. No. 1,040,337; Oct. 8; Gaz. vol. 183; p. 254.
Lever, Compound. O. Dalfond. No. 1,035,324; Aug. 13; Gaz. vol. 181; p. 342.
Lever, Compound. W. V. Gilbert. No. 1,047,785; Dec. 17; Gaz. vol. 185; p. 762.
Lever controller attachment. D. C. Smith. No. 1,016,448; Feb. 6; Sp. p. 484; Gaz. vol. 175; p. 74.
Lever-escapement. W. J. Shortill. No. 1,037,342; Sept. 3; Gaz. vol. 182; p. 54.
Lever, Locking-. J. M. Custer. No. 1,043,206; Nov. 5; Gaz. vol. 184; p. 57.
Lever-locking device. W. B. Wreford. No. 1,025,180; May 7; Sp. p. 156; Gaz. vol. 178; p. 26.
Lever mechanism. A. Johnston. No. 1,021,836; Apr. 2; Sp. p. 190; Gaz. vol. 177; p. 31.
Lever mechanism. F. J. Hanrahan. No. 1,031,440; July 2; Gaz. vol. 180; p. 207.
Lever-operating mechanism. G. W. Seaman. No. 1,036,916; Aug. 27; Gaz. vol. 181; p. 954.
Lever, Safety ratchet-. H. P. Reston. No. 1,018,080; Feb. 20; Sp. p. 4114; Gaz. vol. 175; p. 709.
Lever, Self-locking. S. L. Allen. No. 1,013,099; Jan. 2; Sp. p. 9; Gaz. vol. 174; p. 4.
Lever-socket, Sheet-metal. E. L. Watrous. No. 1,046,241; Dec. 3; Gaz. vol. 185; p. 154.
Levers, Bracket for uncoupling-. W. P. Murphy. No. 1,031,810; July 9; Gaz. vol. 180; p. 376.
Levers, Mechanism for automatically operating. T. A. McCall. No. 1,024,092; Apr. 23; Sp. p. 4979; Gaz. vol. 177; p. 880.
Library-table, Combination. A. L. Waldo. No. 1,044,309; Nov. 12; Gaz. vol. 184; p. 472.
Lid for cooking utensils. A. Gregory. No. 1,028,712; June 4; Sp. p. 1383; Gaz. vol. 179; p. 215.
Lid-lifter. P. Bammer. No. 1,018,546; Feb. 27; Sp. p. 5182; Gaz. vol. 175; p. 901.
Life-belt. A. Moore. No. 1,045,164; Nov. 26; Gaz. vol. 184; p. 827.
Life-boat controller. O. Schalinsky. No. 1,032,949; July 16; Gaz. vol. 180; p. 805.
Life-line projectile. I. J. Glerum. No. 1,017,745; Feb. 20; Sp. p. 3301; Gaz. vol. 175; p. 591.
Life-lines, Pneumatic gun for throwing. I. J. Glerum. No. 1,017,746; Feb. 20; Sp. p. 3302; Gaz. vol. 175; p. 591.
Life-net. A. R. Berger, H. Reymond, and F. P. A. Horn. No. 1,038,717; Sept. 17; Gaz. vol. 182; p. 589.
Life-net holder. J. W. Kyle. No. 1,020,146; Mar. 12; Sp. p. 2420; Gaz. vol. 176; p. 413.
Life-preserver. F. J. Wich. No. 1,014,546; Jan. 9; Sp. p. 3180; Gaz. vol. 174; p. 530.
Life-preserver. J. W. Master. No. 1,025,989; May 14; Sp. p. 1956; Gaz. vol. 178; p. 338.
Life-preserver. J. A. O'Brien. No. 1,026,172; May 14; Sp. p. 2380; Gaz. vol. 178; p. 401.
Life-preserver. N. Martino. No. 1,037,279; Sept. 3; Gaz. vol. 182; p. 34.
Life-preserver. F. C. W. Klusmeyer. No. 1,037,495; Sept. 3; Gaz. vol. 182; p. 109.
Life-preserver. A. D. Crull and L. Spangler. No. 1,042,894; Oct. 29; Gaz. vol. 183; p. 1222.
Life-preserver. H. Laprise. No. 1,045,858; Dec. 3; Gaz. vol. 185; p. 22
Life-preserver. W. J. G. Hebs. No. 1,046,068; Dec. 3; Gaz. vol. 185; p. 92.
Life-preserver, Airship. L. L. Hill. No. 1,042,349; Oct. 22; Gaz. vol. 183; p. 1003.
Life-preserver, Aquatic. E. V. Henderson. No. 1,023,380; Apr. 16; Sp. p. 3478; Gaz. vol. 177; p. 620.
Life-raft. C. R. McCotter. No. 1,019,982; Mar. 12; Sp. p. 2084; Gaz. vol. 176; p. 359.
Life-raft. B. E. Matson. No. 1,049,250; Dec. 31; Gaz. vol. 185; p. 1328.
Life-ring. C. A. Smack. No. 1,043,367; Nov. 5; Gaz. vol. 184; p. 116.
Life-saving and observation tender, Submarine. S. Pontiere. No. 1,019,356; Mar. 5; Sp. p. 805; Gaz. vol. 176; p. 121.
Life-saving apparatus. D. Brevetti and C. Fucci. No. 1,015,937; Jan. 30; Sp. p. 6255; Gaz. vol. 174; p. 1089.
Life-saving apparatus. M. Olsen. No. 1,020,366; Mar. 12; Sp. p. 2866; Gaz. vol. 176; p. 485.
Life-saving apparatus for aviators. C. A. Judah and H. R. Sander. No. 1,015,684; Jan. 23; Sp. p. 5735; Gaz. vol. 174; p. 977.
Life-saving apparatus for submarines. M. Reÿngoudt. No. 1,036,150; Aug. 20; Gaz. vol. 181; p. 662.
Life-saving appliance. S. P. Edmonds. No. 1,045,382; Nov. 26; Gaz. vol. 184; p. 902.
Life-saving appliance. S. P. Edmonds. (Reissue.) No. 13,503; Dec. 31; Gaz. vol. 185; p. 1356.

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Life-saving device. J. J. Rectenwald. No. 1,023,759; Apr. 16; Sp. p. 4202; Gaz. vol. 177; p. 738.
Life-saving device. C. J. Wensley. No. 1,025,497; May 7; Sp. p. 875; Gaz. vol. 178; p. 136.
Life-saving device. R. Trevisan. No. 1,029,729; June 18; Sp. p. 3618; Gaz. vol. 179; p. 637.
Life-saving device. I. N. Myers. No. 1,030,525; June 25; Sp. p. 5429; Gaz. vol. 179; p. 954.
Life-saving device. J. J. Rectenwald. No. 1,034,142; July 30; Gaz. vol. 180; p. 1275.
Life-saving device. J. Schwab. No. 1,043,149; Nov. 5; Gaz. vol. 184; p. 36.
Life-saving device. J. J. Rectenwald. No. 1,044,244; Nov. 12; Gaz. vol. 184; p. 450.
Life-saving device. T. E. Aud. No. 1,046,424; Dec. 10; Gaz. vol. 185; p. 255.
Life-saving dress. W. MacDonald. No. 1,048,555; Dec. 31; Gaz. vol. 185; p. 1089.
Life-saving equipment of soldiers, Inflatable. E. W. Scowden. No. 1,028,141; June 4; Sp. p. 134; Gaz. vol. 179; p. 20.
Life-saving garment for aviators. J. J. Costanzo. No. 1,042,327; Oct. 22; Gaz. vol. 183; p. 996.
Life-saving jacket, Marine. W. Carroll. No. 1,028,433; June 4; Sp. p. 810; Gaz. vol. 179; p. 123.
Life-saving net. M. Ungér. No. 1,021,280; Mar. 26; Sp. p. 4833; Gaz. vol. 176; p. 881.
Lift or hoist. N. S. Brown. No. 1,040,874; Oct. 8; Gaz. vol. 183; p. 437.
Lifts or hoists, Recording and indicating the working of hydraulic and electric. H. A. Matear, T. F. Kenney, and H. Woodhouse. No. 1,038,922; Sept. 17; Gaz. vol. 182; p. 661.
Lifter: *See* Bed-lifter; Box-lifter; Box-lid lifter; Can-lifter; Cuspidor-lifter; Lantern-globe lifter; Lid-lifter; Package-lifter; Plate-lifter; Pump-rod lifter; Sash-lifter; Spittoon-lifter; Stove-lid lifter; Transom-lifter; Truck-body lifter.
Lifter. W. O. Peck. No. 1,035,728; Aug. 13; Gaz. vol. 181; p. 479.
Lifter-arm. M. A. Grobl. No. 1,015,017; Jan. 16; Sp. p. 4300; Gaz. vol. 174; p. 723.
Lifting device. W. H. Williams. No. 1,026,232; May 14; Sp. p. 2525; Gaz. vol. 178; p. 423.
Lifting device. T. T. Hays. No. 1,029,683; June 18; Sp. p. 3502; Gaz. vol. 179; p. 620.
Lifting device. O. Jarosz. No. 1,033,407; July 23; Gaz. vol. 180; p. 1000.
Lifting device. G. Humphrey. No. 1,036,496; Aug. 20; Gaz. vol. 181; p. 782.
Lifting implement. E. C. Richardson. No. 1,029,823; June 18; Sp. p. 3823; Gaz. vol. 179; p. 670.
Lifting-jack. J. Olson. No. 1,018,127; Feb. 20; Sp. p. 4218; Gaz. vol. 175; p. 725.
Lifting-jack. J. B. Smythe. No. 1,019,095; Mar. 5; Sp. p. 193; Gaz. vol. 176; p. 31.
Lifting-jack. G. R. Booth. No. 1,020,879; Mar. 19; Sp. p. 3989; Gaz. vol. 176; p. 695.
Lifting-jack. C. Dunlap. No. 1,021,138; Mar. 26; Sp. p. 4520; Gaz. vol. 176; p. 833.
Lifting-jack. J. Y. Kline. No. 1,024,860; Apr. 30; Sp. p. 6716; Gaz. vol. 177; p. 1182.
Lifting-jack. W. B. Templeton. No. 1,025,218; May 7; Sp. p. 238; Gaz. vol. 178; p. 40.
Lifting-jack. H. V. Miller. No. 1,027,880; May 28; Sp. p. 6146; Gaz. vol. 178; p. 1055.
Lifting-jack. N. Jantzen. No. 1,029,447; June 11; Sp. p. 3005; Gaz. vol. 179; p. 503.
Lifting-jack. I. H. Murdick and C. J. Garey. No. 1,031,194; July 2; Gaz. vol. 180; p. 123.
Lifting-jack. F. E. Farnham. No. 1,036,204; Aug. 20; Gaz. vol. 181; p. 682.
Lifting-jack. C. L. Crabb. No. 1,037,874; Sept. 10; Gaz. vol. 182; p. 266.
Lifting-jack. F. E. Place and G. P. S. Cross. No. 1,039,438; Sept. 24; Gaz. vol. 182; p. 853.
Lifting-jack. H. C. Klein, Sr., and E. R. Penrose. No. 1,039,960; Oct. 1; Gaz. vol. 183; p. 96.
Lifting-jack. L. S. Grosscup. No. 1,040,939; Oct. 8; Gaz. vol. 183; p. 459.
Lifting-jack. C. Skidmore. No. 1,042,161; Oct. 22; Gaz. vol. 183; p. 941.
Lifting-jack. C. A. Hart. No. 1,042,222; Oct. 22; Gaz. vol. 183; p. 961.
Lifting-jack. G. F. Conner. No. 1,043,070; Nov. 5; Gaz. vol. 184; p. 7.
Lifting-jack. L. E. Kurtz. No. 1,044,194; Nov. 12; Gaz. vol. 184; p. 432.
Lifting-jack. H. S. and C. P. Neats. No. 1,047,107; Dec. 10; Gaz. vol. 185; p. 491.
Lifting-jack. M. L. Jenkins. No. 1,048,077; Dec. 24; Gaz. vol. 185; p. 888.
Lifting-jack. A. Van Fleet. No. 1,048,768; Dec. 31; Gaz. vol. 185; p. 1163.
Lifting-jack and turn-table for automobiles. E. Burroughs. No. 1,045,120; Nov. 26; Gaz. vol. 184; p. 812.
Lifting-jack, Fluid-actuated. W. R. Chandler. No. 1,029,423; June 11; Sp. p. 2957; Gaz. vol. 179; p. 494.
Lifting-jack, Pneumatic. W. Budesheim. No. 1,046,145; Dec. 3; Gaz. vol. 185; p. 119.
Lifting-jacks, Socket-lever for. G. F. Freed. No. 1,017,399; Feb. 13; Sp. p. 2585; Gaz. vol. 175; p. 437.
Lifting-key. H. Willson. No. 1,023,775; Apr. 16; Sp. p. 4230; Gaz. vol. 177; p. 743.
Light: *See* Beacon-light; Building-light; Electric light; Flash-light; Gas-light; Headlight; Pilot-light; Pilot-house light; Roof-light; Search-light; Sidewalk-light; Signal-light.
Light and load brake apparatus. R. A. Parke. No. 1,025,297; May 7; Sp. p. 406; Gaz. vol. 178; p. 67.
Light, Apparatus for the electrical production of. P. C. Hewitt. No. 1,030,178; June 18; Sp. p. 4571; Gaz. vol. 179; p. 790.
Light concentrator and projector. C. G. Myers. No. 1,042,716; Oct. 29; Gaz. vol. 183; p. 1161.
Light-diffusing mechanism. V. E. Eslon. No. 1,020,813; Mar. 19; Sp. p. 3842; Gaz. vol. 176; p. 673.
Light-dimmer. F. H. Tobias. No. 1,040,814; Oct. 8; Gaz. vol. 183; p. 419.
Light-fixture. P. J. Handel. No. 1,040,943; Oct. 8; Gaz. vol. 183; p. 461.
Light-fixture. W. F. Smith. No. 1,043,875; Nov. 12; Gaz. vol. 184; p. 322.
Light-fixtures, Socket-cover for. G. A. Richards and A. J. Price. No. 1,037,989; Sept. 10; Gaz. vol. 182; p. 307.
Light post and the like, Street-. G. Schumacher. No. 1,029,404; June 11; Sp. p. 2920; Gaz. vol. 179; p. 488.
Light-producing means. C. P. Steinmetz. No. 1,025,932; May 7; Sp. p. 1837; Gaz. vol. 178; p. 284.
Light, Production of. S. O. Hoffman. No. 1,043,008; Oct. 29; Gaz. vol. 183; p. 1260.
Light, Production of. S. O. Hoffman. No. 1,043,009; Oct. 29; Gaz. vol. 183; p. 1261.
Light-refracting material. F. J. Tone. No. 1,015,598; Jan. 23; Sp. p. 5538; Gaz. vol. 174; p. 948.
Light-shade bracket. W. H. Stratton. No. 1,021,385; Mar. 26; Sp. p. 5040; Gaz. vol. 176; p. 918.
Light-shield. W. N. McComb. No. 1,027,621; May 28; Sp. p. 5535; Gaz. vol. 178; p. 968.
Light-support, Dirigible. W. A. Sapp. No. 1,029,514; June 11; Sp. p. 3130; Gaz. vol. 179; p. 525.
Lighter. A. H. Nelson. No. 1,026,695; May 21; Sp. p. 3530; Gaz. vol. 178; p. 615.
Lighter, Pocket-. B. Dubinski. No. 1,026,571; May 14; Sp. p. 3241; Gaz. vol. 178; p. 536.
Lighter, Portable. C. Hubert. No. 1,022,140; Apr. 2; Sp. p. 824; Gaz. vol. 177; p. 131.
Lighter, Pyrophoric pocket-. A. Dubsky. No. 1,015,876; Jan. 30; Sp. p. 6123; Gaz. vol. 174; p. 1068.
Lighting apparatus. R. M. Dixon and G. E. Hulse. No. 1,024,501; Apr. 30; Sp. p. 5905; Gaz. vol. 177; p. 1056.
Lighting-circuits, Controlling device for. A. E. Button. No. 1,019,422; Mar. 5; Sp. p. 970; Gaz. vol. 176; p. 141.
Lighting-circuits, Time-switch for. R. Buderer, H. Brönnle, and C. W. Reich. No. 1,045,941; Dec. 3; Gaz. vol. 185; p. 49.
Lighting device. W. E. Cochran. No. 1,031,839; July 9; Gaz. vol. 180; p. 386.
Lighting device. W. Daniček, C. Černovský, and G. Kloth. No. 1,045,683; Nov. 26; Gaz. vol. 184; p. 1011.
Lighting device. R. E. Schneider. No. 1,049,002; Dec. 31; Gaz. vol. 185; p. 1244.
Lighting device, Street-. T. S. Brown. No. 1,045,253; Nov. 26; Gaz. vol. 184; p. 859.
Lighting-fixture. J. T. Robb. No. 1,022,875; Apr. 9; Sp. p. 2393; Gaz. vol. 177; p. 409.
Lighting-fixture. N. L. Schloss. No. 1,025,313; May 7; Sp. p. 457; Gaz. vol. 178; p. 72.
Lighting-fixture. J. L. Palmer and C. N. Wheeler. No. 1,029,556; June 11; Sp. p. 3224; Gaz. vol. 179; p. 540.
Lighting-fixture. L. Schepmoes. No. 1,039,822; Oct. 1; Gaz. vol. 183; p. 51.
Lighting-fixture. C. T. Staines. No. 1,043,266; Nov. 5; Gaz. vol. 184; p. 78.
Lighting-fixture. L. Schepmoes. No. 1,045,445; Nov. 26; Gaz. vol. 184; p. 925.
Lighting-fixture. L. Schepmoes. No. 1,045,446; Nov. 26; Gaz. vol. 184; p. 926.
Lighting-fixture. F. W. Wakefield. No. 1,046,238; Dec. 3; Gaz. vol. 185; p. 153.
Lighting-fixture. A. H. Krom. No. 1,047,087; Dec. 10; Gaz. vol. 185; p. 483.
Lighting-fixtures, Flexible chain for. L. W. Andersen. No. 1,037,575; Sept. 3; Gaz. vol. 182; p. 135.
Lighting switch, Progressive-. G. T. Fielding, Jr. No. 1,024,251; Apr. 23; Sp. p. 5356; Gaz. vol. 177; p. 938.
Lighting system. J. Landsiedel. No. 1,025,196; May 7; Sp. p. 188; Gaz. vol. 178; p. 32.
Lighting system. E. F. Wackwitz. No. 1,031,101; July 2; Gaz. vol. 180; p. 90.
Lighting system, Series. L. Arons and M. Fuss. No. 1,023,289; Apr. 16; Sp. p. 3307; Gaz. vol. 177; p. 591.
Lighting system, Vehicle. L. R. Duval. No. 1,033,560; July 23; Gaz. vol. 180; p. 1050.
Lighting unit, Invisible. L. W. Young. No. 1,030,369; June 25; Sp. p. 5037; Gaz. vol. 179; p. 898.
Lighting, Vacuum-tube. D. M. Moore. No. 1,037,290; Sept. 3; Gaz. vol. 182; p. 37.
Lighting, Vacuum-tube. D. M. Moore. No. 1,042,587; Oct. 29; Gaz. vol. 183; p. 1115.

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Lightning-arrester. R. B. Ingram. No. 1,013,166; Jan. 2; Sp. p. 158; Gaz. vol. 174; p. 27.
Lightning-arrester. W. F. Hiatt. No. 1,014,876; Jan. 16; Sp. p. 3991; Gaz. vol. 174; p. 675.
Lightning-arrester. F. S. Chapman. No. 1,017,649; Feb. 20; Sp. p. 3092; Gaz. vol. 175; p. 559.
Lightning-arrester. L. T. Lineberger. No. 1,020,429; Mar. 19; Sp. p. 3013; Gaz. vol. 176; p. 546.
Lightning-arrester. A. J. Wurts. No. 1,022,717; Apr. 9; Sp. p. 2079; Gaz. vol. 177; p. 357.
Lightning-arrester. R. P. Jackson. No. 1,031,795; July 9; Gaz. vol. 180; p. 371.
Lightning-arrester. R. P. Jackson. No. 1,031,796; July 9; Gaz. vol. 180; p. 371.
Lightning-arrester. F. S. Chapman. No. 1,034,584; Aug. 6; Gaz. vol. 181; p. 61.
Lightning-arrester. E. E. F. Creighton. No. 1,034,883; Aug. 6; Gaz. vol. 181; p. 163.
Lightning-arrester. F. T. Forster. No. 1,035,338; Aug. 13; Gaz. vol. 181; p. 347.
Lightning-arrester and test device. H. E. Wirt. No. 1,014,796; Jan. 16; Sp. p. 3800; Gaz. vol. 174; p. 646.
Lightning-arrester, Vacuum. F. S. Chapman and J. T. Greene. No. 1,017,648; Feb. 20; Sp. p. 3091; Gaz. vol. 175; p. 559.
Lightning-arresters, Manufacture of vacuum. F. S. Chapman. No. 1,024,555; Apr. 30; Sp. p. 6070; Gaz. vol. 177; p. 1075.
Lightning-conductor. M. G. Mitchell. No. 1,017,308; Feb. 13; Sp. p. 2393; Gaz. vol. 175; p. 407.
Lignite-burning furnace. J. H. Grove. No. 1,033,005; July 16; Gaz. vol. 180; p. 824.
Lignite-drying apparatus. S. Mertens. No. 1,047,969; Dec. 24; Gaz. vol. 185; p. 852.
Limb, Artificial. H. J. Morris and J. A. Cowlyn. No. 1,026,109; May 14; Sp. p. 2258; Gaz. vol. 178; p. 380.
Limb, Artificial. J. F. Cordell. No. 1,043,509; Nov. 5; Gaz. vol. 184; p. 167.
Limb, Artificial. U. Hoke. No. 1,045,707; Nov. 26; Gaz. vol. 184; p. 1019.
Limbs, Attachment for artificial. W. A. Gilbert. No. 1,043,687; Nov. 5; Gaz. vol. 184; p. 227.
Limb-support. L. T. Smith. No. 1,048,750; Dec. 31; Gaz. vol. 185; p. 1157.
Lime-sulfur solution, Making. W. H. Volck. No. 1,043,276; Nov. 5; Gaz. vol. 184; p. 81.
Limekiln. N. E. McLoon. No. 1,014,015; Jan. 9; Sp. p. 2070; Gaz. vol. 174; p. 348.
Line-carrier. L. D. Shaffer. No. 1,041,683; Oct. 15; Gaz. vol. 183; p. 742.
Line-casting machine. J. R. Rogers. No. 1,014,725; Jan. 16; Sp. p. 3642; Gaz. vol. 174; p. 623.
Line-casting machine. H. Drewell. No. 1,027,826; May 28; Sp. p. 5976; Gaz. vol. 178; p. 1037.
Line-casting machine. J. R. Rogers. No. 1,028,137; June 4; Sp. p. 128; Gaz. vol. 179; p. 19.
Line-casting machine. H. Drewell. No. 1,034,089; July 30; Gaz. vol. 180; p. 1257.
Line-casting machines, Means for leveling multiple-face matrices in. C. Muehleisen and C. A. Albrecht. No. 1,017,444; Feb. 13; Sp. p. 2694; Gaz. vol. 175; p. 454.
Line-casting machines, Slug for. J. McNamara. No. 1,045,162; Nov. 26; Gaz. vol. 184; p. 826.
Line construction. J. W. and E. C. Fawkes. No. 1,046,574; Dec. 10; Gaz. vol. 185; p. 309.
Line-holder. G. B. Harleston. No. 1,024,333; Apr. 23; Sp. p. 5500; Gaz. vol. 177; p. 964.
Line-holder. G. M. Vroome. No. 1,035,062; Aug. 6; Gaz. vol. 181; p. 219.
Line-marker. C. E. Patric. No. 1,017,061; Feb. 13; Sp. p. 1847; Gaz. vol. 175; p. 320.
Line protective device. J. Erickson. No. 1,036,818; Aug. 27; Gaz. vol. 181; p. 922.
Linear-dimension gage. A. Maul. No. 1,044,555; Nov. 19; Gaz. vol. 184; p. 586.
Lineman's climber. J. Donnelly. No. 1,026,853; May 21; Sp. p. 3878; Gaz. vol. 178; p. 669.
Link, Emergency repair-. A. Sidwell. No. 1,047,580; Dec. 17; Gaz. vol. 185; p. 692.
Link, Fusible. J. B. Vaccarezza. No. 1,014,677; Jan. 16; Sp. p. 3551; Gaz. vol. 174; p. 607.
Link, Fusible. F. Voigtmann. No. 1,017,715; Feb. 20; Sp. p. 3224; Gaz. vol. 175; p. 580.
Link, Fusible. J. Alsfasser. No. 1,039,077; Sept. 24; Gaz. vol. 182; p. 727.
Link-guard. S. S. Piper. No. 1,017,458; Feb. 13; Sp. p. 2727; Gaz. vol. 175; p. 459.
Link mesh, Machine for making. A. C. Pratt. No. 1,028,904; June 11; Sp. p. 1819; Gaz. vol. 179; p. 316.
Linoleum, Machine for making inlaid. A. Jones. No. 1,014,397; Jan. 9; Sp. p. 2911; Gaz. vol. 174; p. 482.
Linotype-machine. H. Degener. No. 1,017,387; Feb. 13; Sp. p. 2559; Gaz. vol. 175; p. 433.
Linotype-machine. W. M. Rapp. No. 1,027,566; May 28; Sp. p. 5441; Gaz. vol. 178; p. 951.
Linotype-machine. W. M. Rapp. No. 1,029,714; June 18; Sp. p. 3585; Gaz. vol. 179; p. 633.
Linotype-machine. J. R. Rogers. (Reissue.) No. 13,489; Nov. 19; Gaz. vol. 184; p. 783.
Linotype-machine. W. M. Rapp. No. 1,047,289; Dec. 17; Gaz. vol. 185; p. 589.
Linotype-machine attachment. C. L. Mohr. No. 1,036,678; Aug. 27; Gaz. vol. 181; p. 876.
Linotype-machine ejector-blade. H. Petersen. No. 1,025,993; May 14; Sp. p. 1971; Gaz. vol. 178; p. 339.
Linotype-machine mold. J. R. Rogers. No. 1,046,649; Dec. 10; Gaz. vol. 185; p. 335.
Linotype-machine pot-charger. E. E. Spencer. No. 1,032,306; July 9; Gaz. vol. 180; p. 544.
Linotype-machines, Automatic feeding device for. H. E. Nelson. No. 1,016,356; Feb. 6; Sp. p. 265; Gaz. vol. 175; p. 41.
Linotype-machines, Matrix for. H. Petersen. No. 1,028,955; June 11; Sp. p. 1925; Gaz. vol. 179; p. 332.
Linotype-mold. A. W. Le Boeuf. No. 1,027,551; May 28; Sp. p. 5399; Gaz. vol. 178; p. 946.
Linotype-mold. H. Petersen. No. 1,030,678; June 25; Sp. p. 5902; Gaz. vol. 179; p. 1008.
Linotype movable-jaw-adjusting device. E. L. Holmes. 1,047,412; Dec. 17; Gaz. vol. 185; p. 630.
Lint-flue. J. E. Cheesman. No. 1,042,396; Oct. 29; Gaz. vol. 183; p. 1046.
Lint-treating apparatus. J. E. Cheesman. No. 1,042,394; Oct. 29; Gaz. vol. 183; p. 1045.
Lint-treating apparatus. J. E. Cheesman. No. 1,042,395; Oct. 29; Gaz. vol. 183; p. 1046.
Lip-turning machine. H. W. Winter. No. 1,030,630; June 25; Sp. p. 5791; Gaz. vol. 179; p. 992.
Liquid-aerating apparatus. L. Neumayer. No. 1,022,968; Apr. 9; Sp. p. 2601; Gaz. vol. 177; p. 442.
Liquid and cup dispensing apparatus. L. D. Jannell. No. 1,035,348; Aug. 13; Gaz. vol. 181; p. 351.
Liquid and gaseous fuel burner, Hot-blast. A. W. Fees. No. 1,016,257; Feb. 6; Sp. p. 28; Gaz. vol. 175; p. 7.
Liquid, Apparatus for delivering measured quantities of. J. M. Burton. No. 1,043,296; Nov. 5; Gaz. vol. 184; p. 89.
Liquid-concentrating mechanism. J. E. Dunn. No. 1,033,559; July 23; Gaz. vol. 180; p. 1049.
Liquid-container indicator. F. L. Pfahl. No. 1,013,309; Jan. 2; Sp. p. 495; Gaz. vol. 174; p. 78.
Liquid-containers, System of indicating the contents of. O. Frederickson. No. 1,017,091; Feb. 13; Sp. p. 1933; Gaz. vol. 175; p. 332.
Liquid-cooler. W. E. Patnaude. No. 1,018,924; Feb. 27; Sp. p. 5966; Gaz. vol. 175; p. 1028.
Liquid-cooler. W. and F. Fahrman and L. Bolton. No. 1,029,981; June 18; Sp. p. 4172; Gaz. vol. 179; p. 723.
Liquid-cooling apparatus. J. Willmann. No. 1,015,660; Jan. 23; Sp. p. 5670; Gaz. vol. 174; p. 969.
Liquid-dispenser. W. C. Maloz. No. 1,029,076; June 11; Sp. p. 2176; Gaz. vol. 179; p. 375.
Liquid-dispenser. J. Desmond. No. 1,046,997; Dec. 10; Gaz. vol. 185; p. 453.
Liquid-dispensing apparatus. F. M. Ashley. No. 1,035,516; Aug. 13; Gaz. vol. 181; p. 408.
Liquid-dispensing apparatus. A. Kalthoff. No. 1,038,595; Sept. 17; Gaz. vol. 182; p. 546.
Liquid-dispensing device, Automatic. A. Bertram. No. 1,049,288; Dec. 31; Gaz. vol. 185; p. 1341.
Liquid-dispensing machine. W. G. Hollingsworth. No. 1,015,680; Jan. 23; Sp. p. 5703; Gaz. vol. 174; p. 975.
Liquid-dispensing machine. F. T. Percy. No. 1,030,854; June 25; Sp. p. 6447; Gaz. vol. 179; p. 1074.
Liquid-dispensing tank. O. A. Heckel. No. 1,016,990; Feb. 13; Sp. p. 1697; Gaz. vol. 175; p. 296.
Liquid-distributing apparatus. A. Sätterström. No. 1,038,444; Sept. 10; Gaz. vol. 182; p. 461.
Liquid-fermenting receptacle. H. Wennersten. No. 1,033,136; July 23; Gaz. vol. 180; p. 908.
Liquid-filling device. H. Barry. No. 1,014,935; Jan. 16; Sp. p. 4124; Gaz. vol. 174; p. 695.
Liquid-filling machine. E. J. Lane. No. 1,046,811; Dec. 10; Gaz. vol. 185; p. 393.
Liquid from receptacles, Means for drawing. F. N. Christian. No. 1,028,542; June 4; Sp. p. 1042; Gaz. vol. 179; p. 158.
Liquid-fuel burner. M. Gross. No. 1,019,247; Mar. 5; Sp. p. 529; Gaz. vol. 176; p. 84.
Liquid-fuel burner. J. Gomez. No. 1,024,070; Apr. 23; Sp. p. 4926; Gaz. vol. 177; p. 873.
Liquid-fuel burner. W. R. McHill. No. 1,025,636; May 7; Sp. p. 1190; Gaz. vol. 178; p. 183.
Liquid-fuel burner. H. J. Russell. No. 1,027,070; May 21; Sp. p. 4417; Gaz. vol. 178; p. 747.
Liquid-fuel burner. H. W. Schoff. No. 1,027,506; May 28; Sp. p. 5313; Gaz. vol. 178; p. 931.
Liquid-fuel burner. W. J. Cameron. No. 1,034,417; Aug. 6; Gaz. vol. 181; p. 6.
Liquid-fuel burner. J. Harper. No. 1,036,615; Aug. 27; Gaz. vol. 181; p. 856.
Liquid-fuel burner. T. R. Aulsebrook. No. 1,038,712; Sept. 17; Gaz. vol. 182; p. 587.
Liquid-fuel burner. W. E. McCarthy. No. 1,041,649; Oct. 15; Gaz. vol. 183; p. 731.
Liquid-fuel burner. C. W. Willis. No. 1,045,233; Nov. 26; Gaz. vol. 184; p. 851.
Liquid-fuel burner. W. Falkenberg. No. 1,045,779; Nov. 26; Gaz. vol. 184; p. 1044.
Liquid-fuel burner. W. R. McHill. No. 1,045,995; Dec. 3; Gaz. vol. 185; p. 67.

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Liquid-fuel burner. F. K. Hoff. No. 1,047,633; Dec. 17; Gaz. vol. 185; p. 710.
Liquid fuel, Burning. G. E. Clapp. No. 1,020,266; Mar. 12; Sp. p. 2674; Gaz. vol. 176; p. 454.
Liquid-fuel-burning apparatus. W. E. Oakley. No. 1,024,596; Apr. 30; Sp. p. 6163; Gaz. vol. 177; p. 1088.
Liquid-fuel furnace. A. Laing. No. 1,025,279; May 7; Sp. p. 374; Gaz. vol. 178; p. 60.
Liquid-fuel furnace. G. Conti. No. 1,031,249; July 2; Gaz. vol. 180; p. 142.
Liquid-gage. P. Panhorst. No. 1,013,809; Jan. 2; Sp. p. 1570; Gaz. vol. 174; p. 250.
Liquid-heater, Electric. J. R. Lawson. No. 1,025,281; May 7; Sp. p. 377; Gaz. vol. 178; p. 61.
Liquid heating and cooling apparatus. G. Sinclair. No. 1,017,816; Feb. 20; Sp. p. 3505; Gaz. vol. 175; p. 616.
Liquid-level indicator. D. G. Davies. No. 1,029,598; June 18; Sp. p. 3314; Gaz. vol. 179; p. 589.
Liquid-level regulator, Thermostatic. W. East, A. E. Dobbs, and J. S. Howkins. No. 1,047,769; Dec. 17; Gaz. vol. 185; p. 757.
Liquid, Machine for filling receptacles with. L. A. Baker. No. 1,036,778; Aug. 27; Gaz. vol. 181; p. 909.
Liquid-meter. J. V. Redfield and J. T. Bordley. No. 1,016,361; Feb. 6; Sp. p. 273; Gaz. vol. 175; p. 43.
Liquid-meter. D. Cahill. No. 1,023,621; Apr. 16; Sp. p. 3971; Gaz. vol. 177; p. 697.
Liquid-meter. H. C. Alger. No. 1,025,358; May 7; Sp. p. 558; Gaz. vol. 178; p. 87.
Liquid-meter. J. W. Ledoux. No. 1,033,598; July 23; Gaz. vol. 180; p. 1062.
Liquid mixer and distributer. H. Luckenbach. No. 1,028,042; May 28; Sp. p. 6482; Gaz. vol. 178; p. 1109.
Liquid-mixing apparatus. J. J. Matheson. No. 1,036,871; Aug. 27; Gaz. vol. 181; p. 941.
Liquid-motor, Reversible. W. E. Pearson. No. 1,023,872; Apr. 23; Sp. p. 4492; Gaz. vol. 177; p. 805.
Liquid-pressure regulator. J. D. Wallace. No. 1,025,222; May 7; Sp. p. 247; Gaz. vol. 178; p. 41.
Liquid, Raising or forcing. H. A. Humphrey and A. Cerasoli. No. 1,037,009; Aug. 27; Gaz. vol. 181; p. 986.
Liquid safety-gage. F. Gettelman. No. 1,027,721; May 28; Sp. p. 5744; Gaz. vol. 178; p. 1001.
Liquid-separating apparatus. K. C. Randall and C. B. Gibson. No. 1,024,598; Apr. 30; Sp. p. 6166; Gaz. vol. 177; p. 1089.
Liquid-separator. G. E. Sanford. No. 1,016,366; Feb. 6; Sp. p. 281; Gaz. vol. 175; p. 45.
Liquid-separator. E. A. Bidwell. No. 1,034,571; Aug. 6; Gaz. vol. 181; p. 57.
Liquid-separator. Centrifugal. H. Feldmeier and R. K. Miner. No. 1,024,844; Apr. 30; Sp. p. 6686; Gaz. vol. 177; p. 1176.
Liquid-separator, Centrifugal. E. A. Forsberg. No. 1,030,991; July 2; Gaz. vol. 180; p. 49.
Liquid, Sour. R. Wahl. No. 1,028,508; June 4; Sp. p. 980; Gaz. vol. 179; p. 148.
Liquid-storage system. H. E. Grant. No. 1,042,106; Oct. 22; Gaz. vol. 183; p. 924.
Liquid-storage system. H. E. Grant. No. 1,042,107; Oct. 22; Gaz. vol. 183; p. 924.
Liquid-supply system. H. E. Grant. No. 1,042,216; Oct. 22; Gaz. vol. 183; p. 960.
Liquid transmission apparatus. M. Karminski and C. Peters. No. 1,047,948; Dec. 24; Gaz. vol. 185; p. 847.
Liquid-treating apparatus. K. W. Bartlett. No. 1,017,728; Feb. 20; Sp. p. 3259; Gaz. vol. 175; p. 584.
Liquid-treating apparatus. K. W. Bartlett. No. 1,017,729; Feb. 20; Sp. p. 3263; Gaz. vol. 175; p. 584.
Liquid-treating apparatus. K. W. Bartlett. No. 1,035,301; Aug. 13; Gaz. vol. 181; p. 333.
Liquid-treating machine. J. W. Davies. No. 1,026,947; May 21; Sp. p. 4128; Gaz. vol. 178; p. 703.
Liquids, Apparatus for changing the temperature of. P. J. Cartault. No. 1,024,436; Apr. 23; Sp. p. 5719; Gaz. vol. 177; p. 996.
Liquids, Apparatus for fixation of. M. J. Talansier. No. 1,042,171; Oct. 22; Gaz. vol. 183; p. 944.
Liquids, Apparatus for separating solid matters from. A. Müntzing. No. 1,048,853; Dec. 31; Gaz. vol. 185; p. 1193.
Liquids, Apparatus for storing and discharging inflammable. P. Kesseler. No. 1,047,075; Dec. 10; Gaz. vol. 185; p. 479.
Liquids by compressed air, Apparatus for raising. P. Kestner. No. 1,025,699; May 7; Sp. p. 1313; Gaz. vol. 178; p. 204.
Liquids by means of ultra-violet rays, Apparatus for sterilizing. P. G. Triquet. No. 1,030,692; June 25; Sp. p. 5934; Gaz. vol. 179; p. 1013.
Liquids, Concentrating. P. Kestner. No. 1,022,321; Apr. 2; Sp. p. 1179; Gaz. vol. 177; p. 190.
Liquids from materials containing the same, Machine for pressing. T. Franke. No. 1,031,543; July 2; Gaz. vol. 180; p. 241.
Liquids from solids, Apparatus for expressing. J. J. Berrigan. No. 1,018,958; Feb. 27; Sp. p. 6035; Gaz. vol. 175; p. 1040.
Liquids in measured quantities, Apparatus for discharging. C. P. Beckwith. No. 1,030,378; June 25; Sp. p. 5052; Gaz. vol. 179; p. 901.
Liquids, Machine for automatically regulating the flow of. C. T. Parker. No. 1,028,132; June 4; Sp. p. 87; Gaz. vol. 179; p. 17.
Liquids of different gravities, Apparatus for separating. E. C. Kendall. No. 1,036,640; Aug. 27; Gaz. vol. 181; p. 864.
Liquids, Purifying. E. Gates. No. 1,045,830; Dec. 3; Gaz. vol. 185; p. 12.
Liquids, Recovering volatile. C. Harrison, W. Bate, and W. G. Perks. No. 1,022,416; Apr. 9; Sp. p. 1380; Gaz. vol. 177; p. 253.
Liquids, Recovery of volatile. G. Claude. No. 1,040,886; Oct. 8; Gaz. vol. 183; p. 442.
Liquids, Volumetric apparatus for. H. Ljungkrantz. No. 1,032,555; July 16; Gaz. vol. 180; p. 673.
Liquids with gases, Apparatus for impregnating. M. Paschka. No. 1,037,517; Sept. 3; Gaz. vol. 182; p. 116.
Liquor-mellowing compound. F. A. Lutters. No. 1,037,783; Sept. 3; Gaz. vol. 182; p. 202.
Listing and marking table. B. L. Herrick. No. 1,018,053; Feb. 20; Sp. p. 4046; Gaz. vol. 175; p. 700.
Lithographic press. G. G. Goedike. No. 1,027,722; May 28; Sp. p. 5745; Gaz. vol. 178; p. 1002.
Lithographic stone. H. Wagner. No. 1,029,835; June 18; Sp. p. 3841; Gaz. vol. 179; p. 674.
Litter-carrier. C. B. Willenborg. No. 1,022,763; Apr. 9; Sp. p. 2177; Gaz. vol. 177; p. 373.
Litter-carrier. H. B. Hester. No. 1,039,737; Oct. 1; Gaz. vol. 183; p. 23.
Litter-carrier hanger. E. B. Hunt. No. 1,025,527; May 7; Sp. p. 946; Gaz. vol. 178; p. 146.
Load-binder. F. A. Kenney. No. 1,020,650; Mar. 19; Sp. p. 3500; Gaz. vol. 176; p. 618.
Load-carrier. G. W. Maskrey. No. 1,040,227; Oct. 1; Gaz. vol. 183; p. 185.
Load-handling apparatus. R. F. Bennett. No. 1,033,078; July 23; Gaz. vol. 180; p. 887.
Loads, Machinery for engaging and carrying. J. Nameche. No. 1,021,469; Mar. 26; Sp. p. 5265; Gaz. vol. 176; p. 949.
Loads of material, Machine for transferring. F. E. Gunther. No. 1,017,749; Feb. 20; Sp. p. 3312; Gaz. vol. 175; p. 592.
Loader. W. W. Rosenau. No. 1,015,081; Jan. 16; Sp. p. 4425; Gaz. vol. 174; p. 744.
Loader. E. and A. Butts. No. 1,016,242; Jan. 30; Sp. p. 6878; Gaz. vol. 174; p. 1194.
Loader. F. Zurbuchen. No. 1,028,653; June 4; Sp. p. 1271; Gaz. vol. 179; p. 195.
Loader. J. G. Mattson. No. 1,038,405; Sept. 10; Gaz. vol. 182; p. 446.
Loader. L. Thortvedt. No. 1,039,847; Oct. 1; Gaz. vol. 183; p. 60.
Loader and spreader, Combined. A. J. Parcels. No. 1,018,984; Feb. 27; Sp. p. 6109; Gaz. vol. 175; p. 1050.
Loader, Automatic. A. M. Jordan. No. 1,037,632; Sept. 3; Gaz. vol. 182; p. 152.
Loader, Beet and vegetable. L. C. Jensen. No. 1,020,426; Mar. 19; Sp. p. 3007; Gaz. vol. 176; p. 545.
Loader, Ore-. N. P. Flodin. No. 1,026,502; May 14; Sp. p. 3111; Gaz. vol. 178; p. 514.
Loader, Shock-. J. McManus. No. 1,033,820; July 30; Gaz. vol. 180; p. 1161.
Loading and unloading apparatus. J. W. Carriker. No. 1,023,006; Apr. 9; Sp. p. 2667; Gaz. vol. 177; p. 455.
Loading and unloading apparatus. E. A. Swift. No. 1,032,568; July 16; Gaz. vol. 180; p. 676.
Loading and unloading apparatus. B. W. Tucker. No. 1,044,301; Nov. 12; Gaz. vol. 184; p. 469.
Loading and unloading apparatus for coal, &c. F. W. Lovell. No. 1,033,602; July 23; Gaz. vol. 180; p. 1064.
Loading and unloading coal and other cargo, Apparatus for. G. E. Holland. No. 1,036,495; Aug. 20; Gaz. vol. 181; p. 782.
Loading and unloading device. W. E. Ham and A. M. Cook. No. 1,017,290; Feb. 13; Sp. p. 2351; Gaz. vol. 175; p. 400.
Loading and unloading device. T. Suchla. No. 1,028,841; June 4; Sp. p. 1662; Gaz. vol. 179; p. 259.
Loading and unloading device. T. Suchla. (Reissue.) No. 13,490; Nov. 19; Gaz. vol. 184; p. 783.
Loading and unloading device. R. L. Morgan. No. 1,048,722; Dec. 31; Gaz. vol. 185; p. 1147.
Loading and unloading means, Vehicle. F. A. Kenney. No. 1,027,612; May 28; Sp. p. 5526; Gaz. vol. 178; p. 967.
Loading and unloading trucks, Means for. C. Mattson. No. 1,025,287; May 7; Sp. p. 387; Gaz. vol. 178; p. 63.
Loading apparatus. P. L. Holcomb. No. 1,020,554; Mar. 19; Sp. p. 3282; Gaz. vol. 176; p. 586.
Loading apparatus. W. H. Lines. No. 1,028,576; June 4; Sp. p. 1120; Gaz. vol. 179; p. 170.
Loading apparatus. J. R. Alexander. No. 1,039,007; Sept. 17; Gaz. vol. 182; p. 688.
Loading apparatus. J. McMyler. No. 1,046,624; Dec. 10; Gaz. vol. 185; p. 326.
Loading appliance, Vehicle. C. V. Hanson. No. 1,039,935; Oct. 1; Gaz. vol. 183; p. 88.

Alphabetical list of inventions—Continued.

Loading device. G. E. Menke. No. 1,021,696; Mar. 26; Sp. p. 5683; Gaz. vol. 176; p. 1023.
Loading device, Portable. A. Vollers. No. 1,016,188; Jan. 30; Sp. p. 6764; Gaz. vol. 174; p. 1177.
Loading-machine. G. Manierre. No. 1,037,784; Sept. 3; Gaz. vol. 182; p. 202.
Loading-machine. W. R. Waring. No. 1,039,339; Sept. 24; Gaz. vol. 182; p. 819.
Loading-trap, Portable. B. Ransome. No. 1,021,332; Mar. 26; Sp. p. 4929; Gaz. vol. 176; p. 901.
Loaf-forming machine. F. Streich. No. 1,043,979; Nov 12; Gaz. vol. 184; p. 360.
Loaf-forming machine. F. Streich. No. 1,043,980; Nov. 12; Gaz. vol. 184; p. 360.
Loaf-molding machine, Long-. P. F. Carroll. No. 1,037,820; Sept. 3; Gaz. vol. 182; p. 214.
Lock: *See* Alarm-lock; Automobile-lock; Automobile gearing-lock; Automobile hood-lock; Automobile robe-rail lock; Bag-lock; Barrel-lock; Base-lock; Bed-lock; Bed-rail lock; Boat-shaft lock; Bolt-lock; Bolt and nut lock; Book-lock; Bottle-lock; Brake-lever lock; Bridge-lock; Can-lock; Car-door lock; Check-lock; Clevis-lock; Cock-lock; Coin-controlled lock; Combination-lock; Combination or keyless lock; Coupling-lock; Crate-corner lock; Dial-lock; Door-lock; Door, &c., lock; Door or window lock; Drawer-lock; Electric lock; Electric-plug lock; Elevator-lock; End-gate-rod lock; Fire-door lock; Gate or door lock; Gravity-lock; Hasp-lock; Head-rest lock; Hose-lock; Indicator-lock; Jail-door lock; Key-lock; Key-operated lock; Knob night-lock; Lamp-lock; Lamp-chimney lock; Last-lock; Latch-lock; Latch-bolt lock; Nut-lock; Nut and bolt lock; Nut and washer lock; Oar-lock; Padlock; Panic-lock; Permutation-lock; Piano-lock; Pin-lock; Pin safety-lock; Pin-tumbler lock; Pipe-lock; Pocket-lock; Rail-lock; Railway-spike lock; Recording-lock; Refrigerator-lock; Safe-lock; Safety-lock; Sash-lock; Satchel-lock; Satchel-frame lock; Seal-lock; Shade-roller lock; Show-case lock; Side-board lock; Spring-lock; Stovepipe-lock; Suit-case lock; Switch-lock; Switch-point lock; Thread-lock; Time-lock; Tire-lock; Tire-clencher-ring lock; Tongue-lock; Trunk-lock; Tumbler-lock; Type-writer key-lock; Valve-lock; Vehicle-lock; Well-tubing lock; Wheel-lock; Whip-lock; Window-lock.
Lock. H. G. Voight. No. 1,013,524; Jan. 2; Sp. p. 946; Gaz. vol. 174; p. 152.
Lock. S. Ligammori. No. 1,014,073; Jan. 9; Sp. p. 2203; Gaz. vol. 174; p. 369.
Lock. J. Dunai. No. 1,014,577; Jan. 9; Sp. p. 3240; Gaz. vol. 174; p. 540.
Lock. O. Sallstrom. No. 1,015,640; Jan. 23; Sp. p. 5628; Gaz. vol. 174; p. 963.
Lock. E. B. Stone. No. 1,016,455; Feb. 6; Sp. p. 503; Gaz. vol. 175; p. 77.
Lock. E. B. Stone. No. 1,018,216; Feb. 20; Sp. p. 4397; Gaz. vol. 175; p. 756.
Lock. O. W. Bedell. No. 1,018,475; Feb. 27; Sp. p. 4953; Gaz. vol. 175; p. 875.
Lock. W. F. E. Gordon. No. 1,018,756; Feb. 27; Sp. p. 5621; Gaz. vol. 175; p. 972.
Lock. H. G. Voight. No. 1,018,998; Feb. 27; Sp. p. 6139; Gaz. vol. 175; p. 1055.
Lock. R. Schoell. No. 1,020,847; Mar. 19; Sp. p. 3919; Gaz. vol. 176; p. 685.
Lock. E. Hahn. No. 1,020,978; Mar. 26; Sp. p. 4206; Gaz. vol. 176; p. 781.
Lock. C. Denzler. No. 1,021,864; Apr. 2; Sp. p. 245; Gaz. vol. 177; p. 40.
Lock. C. M. Sinclair. No. 1,023,766; Apr. 16; Sp. p. 4214; Gaz. vol. 177; p. 740.
Lock. H. G. Voight. No. 1,024,466; Apr. 23; Sp. p. 5799; Gaz. vol. 177; p. 1007.
Lock. H. G. Voight and N. B. Hurd. No. 1,024,467; Apr. 23; Sp. p. 5800; Gaz. vol. 177; p. 1007.
Lock. G. N. Mason. No. 1,024,733; Apr. 30; Sp. p. 6447; Gaz. vol. 177; p. 1137.
Lock. S. H. Shank. No. 1,026,001; May 14; Sp. p. 1988; Gaz. vol. 178; p. 342.
Lock. R. J. Keppel. No. 1,026,209; May 14; Sp. p. 2482; Gaz. vol. 178; p. 415.
Lock. R. W. Hutchison. No. 1,026,320; May 14; Sp. p. 2708; Gaz. vol. 178; p. 453.
Lock. G. B. Kohler. No. 1,026,591; May 14; Sp. p. 3280; Gaz. vol. 178; p. 542.
Lock. I. Ducsay. No. 1,027,325; May 21; Sp. p. 4942; Gaz. vol. 178; p. 831.
Lock. E. O. Vann. No. 1,027,940; May 28; Sp. p. 6262; Gaz. vol. 178; p. 1076.
Lock. M. Lindner. No. 1,028,368; June 4; Sp. p. 671; Gaz. vol. 179; p. 100.
Lock. A. Arens. No. 1,028,423; June 4; Sp. p. 790; Gaz. vol. 179; p. 119.
Lock. J. A. Giese. No. 1,029,747; June 18; Sp. p. 3650; Gaz. vol. 179; p. 643.
Lock. J. C. Kinney. No. 1,030,189; June 18; Sp. p. 4609; Gaz. vol. 179; p. 794.
Lock. W. J. Carroll. No. 1,032,530; July 16; Gaz. vol. 180; p. 663.
Lock. M. Spirikowicz. No. 1,032,631; July 16; Gaz. vol. 180; p. 698.
Lock. K. Freund. No. 1,032,889; July 16; Gaz. vol. 180; p. 786.
Lock. W. H. Taylor. No. 1,032,962; July 16; Gaz. vol. 180; p. 809.
Lock. A. Arens. No. 1,033,059; July 16; Gaz. vol. 180; p. 844.
Lock. J. Juhász. No. 1,035,196; Aug. 13; Gaz. vol. 181; p. 296.
Lock. B. Roller. No. 1,036,009; Aug. 20; Gaz. vol. 181; p. 610.
Lock. G. N. Mason. No. 1,036,130; Aug. 20; Gaz. vol. 181; p. 654.
Lock. J. Sinkovich. No. 1,036,156; Aug. 20; Gaz. vol. 181; p. 664.
Lock. G. B. Snyder. No. 1,037,072; Aug. 27; Gaz. vol. 181; p. 1008.
Lock. B. Borlund. No. 1,037,115; Aug. 27; Gaz. vol. 181; p. 1023.
Lock. W. A. Ratcliff. No. 1,037,531; Sept. 3; Gaz. vol. 182; p. 120.
Lock. A. Norberg. No. 1,037,970; Sept. 10; Gaz. vol. 182; p. 301.
Lock. O. W. Bedell. No. 1,038,268; Sept. 10; Gaz. vol. 182; p. 399.
Lock. A. G. Anderson. No. 1,038,512; Sept. 17; Gaz. vol. 182; p. 517.
Lock. L. L. Kellogg. No. 1,038,597; Sept. 17; Gaz. vol. 182; p. 547.
Lock. F. Egge. No. 1,038,864; Sept. 17; Gaz. vol. 182; p. 641.
Lock. P. C. Mangold. No. 1,039,158; Sept. 24; Gaz. vol. 182; p. 754.
Lock. W. E. and O. F. Sparks. No. 1,040,245; Oct. 1; Gaz. vol. 183; p. 192.
Lock. H. G. Voight. No. 1,040,966; Oct. 8; Gaz. vol. 183; p. 468.
Lock. F. Danner. No. 1,041,749; Oct. 22; Gaz. vol. 183; p. 801.
Lock. C. Patt. No. 1,042,031; Oct. 22; Gaz. vol. 183; p. 899.
Lock. R. N. Pierson. No. 1,042,263; Oct. 22; Gaz. vol. 183; p. 974.
Lock. J. Junkunc. No. 1,042,447; Oct. 29; Gaz. vol. 183; p. 1066.
Lock. N. Waing. No. 1,042,508; Oct. 29; Gaz. vol. 183; p. 1087.
Lock. C. E. Brede. No. 1,042,639; Oct. 29; Gaz. vol. 183; p. 1134.
Lock. G. E. Cleaver. No. 1,043,067; Nov. 5; Gaz. vol. 184; p. 6.
Lock. H. Nielsen. No. 1,043,131; Nov. 5; Gaz. vol. 184; p. 29.
Lock. F. Canger. No. 1,043,569; Nov. 5; Gaz. vol. 184; p. 188.
Lock. A. Arens. No. 1,043,750; Nov. 5; Gaz. vol. 184; p. 248.
Lock. D. Ziegler. No. 1,045,356; Nov. 26; Gaz. vol. 184; p. 893.
Lock. W. Louczynski. No. 1,046,313; Dec. 3; Gaz. vol. 185; p. 180.
Lock. L. W. Fox. No. 1,048,952; Dec. 31; Gaz. vol. 185; p. 1227.
Lock and escutcheon-plates, Combined. W. H. F. Young. No. 1,025,938; May 7; Sp. p. 1853; Gaz. vol. 178; p. 285.
Lock and key. J. Laughlin. No. 1,020,208; Mar. 12; Sp. p. 2569; Gaz. vol. 176; p. 436.
Lock and latch, Combined. W. H. F. Young. No. 1,025,850; May 7; Sp. p. 1618; Gaz. vol. 178; p. 256.
Lock and latch, Combined. D. M. Russell. No. 1,037,543; Sept. 3; Gaz. vol. 182; p. 124.
Lock and mortise gage. E. G. Morin, Jr. No. 1,014,895; Jan. 16; Sp. p. 4028; Gaz. vol. 174; p. 681.
Lock attachment. J. M. Lybeck. No. 1,025,284; May 7; Sp. p. 383; Gaz. vol. 178; p. 62.
Lock bolt and nut. E. A. Pack and R. A. Moon. No. 1,017,583; Feb. 13; Sp. p. 2958; Gaz. vol. 175; p. 499.
Lock-cylinder control, Hotel-. A. Arens and E. L. Teich. No. 1,017,725; Feb. 20; Sp. p. 3252; Gaz. vol. 175; p. 583.
Lock-ferrule. C. Robinson. No. 1,026,223; May 14; Sp. p. 2507; Gaz. vol. 178; p. 420.
Lock for couplings. E. E. Gold. No. 1,046,459; Dec. 10; Gaz. vol. 185; p. 268.
Lock for couplings. E. E. Gold. No. 1,046,460; Dec. 10; Gaz. vol. 185; p. 268.
Lock for mail-bags, &c. J. Sackett. No. 1,015,908; Jan. 30; Sp. p. 6196; Gaz. vol. 174; p. 1080.
Lock-indicator. P. F. Augenbraun. No. 1,022,221; Apr. 2; Sp. p. 989; Gaz. vol. 177; p. 159.
Lock strike-plate, Door-. P. F. Augenbraun. No. 1,022,222; Apr. 2; Sp. p. 991; Gaz. vol. 177; p. 160.
Lock-switch, Automatic. W. R. Cox. No. 1,015,300; Jan. 23; Sp. p. 4877; Gaz. vol. 174; p. 845.
Lock-tie for mail and other purposes. B. A. Blakemore. No. 1,014,937; Jan. 16; Sp. p. 4128; Gaz. vol. 174; p. 695.
Lock trimming, Door-. H. G. Voight and N. B. Hurd. No. 1,024,480; Apr. 23; Sp. p. 5830; Gaz. vol. 177; p. 1013.
Lock tumbler, Combination-. W. H. Taylor. No. 1,032,963; July 16; Gaz. vol. 180; p. 809.

Alphabetical list of inventions—Continued.

Lock-washer. W. H. Fry. No. 1,017,528; Feb. 13; Sp. p. 2863; Gaz. vol. 175; p. 483.
Lock-washer. C. F. Beers. No. 1,025,958; May 14; Sp. p. 1902; Gaz. vol. 178; p. 327.
Locks, Coin-controlled attachment for. W. S. Farnsworth. No. 1,045,780; Nov. 26; Gaz. vol. 184; p. 1044.
Locks for wedging the bars of doors, Device applicable to. A. Giacometti. No. 1,047,784; Dec. 17; Gaz. vol. 185; p. 762.
Locks, Safety-catch for cylinder-. J. M. Reiss. No. 1,045,323; Nov. 26; Gaz. vol. 184; p. 881.
Locker. S. D. Leland. No. 1,033,711; July 23; Gaz. vol. 180; p. 1098.
Locker structure. A. J. Thornley. No. 1,041,700; Oct. 15; Gaz. vol. 183; p. 748.
Locking and releasing device. E. P. Gray. No. 1,035,182; Aug. 13; Gaz. vol. 181; p. 292.
Locking-bolt, Reversible. G. N. Mason. No. 1,019,678; Mar. 5; Sp. p. 1469; Gaz. vol. 176; p. 227.
Locking-brake. G. F. Suppes. No. 1,045,632; Nov. 26; Gaz. vol. 184; p. 993.
Locking-clamp. L. C. Tingley. No. 1,021,343; Mar. 26; Sp. p. 4958; Gaz. vol. 176; p. 905.
Locking-clamp and railway-tie for track-rails, Combined. R. A. Argabright. No. 1,029,658; June 18; Sp. p. 3443; Gaz. vol. 179; p. 611.
Locking device. W. R. Boone and C. A. Watson. No. 1,016,541; Feb. 6; Sp. p. 728; Gaz. vol. 175; p. 107.
Locking device. C. L. Seeley. No. 1,020,930; Mar. 19; Sp. p. 4078; Gaz. vol. 176; p. 712.
Locking device. G. A. Minetty. No. 1,038,412; Sept. 10; Gaz. vol. 182; p. 449.
Locking device. G. E. Palmer. No. 1,040,573; Oct. 8; Gaz. vol. 183; p. 335.
Locking device, Automatic. B. W. Smith. No. 1,037,803; Sept. 3; Gaz. vol. 182; p. 208.
Locking device, Automatic. J. L. Morisons. No. 1,042,948; Oct. 29; Gaz. vol. 183; p. 1239.
Locking device, Automatic. J. H. Gorton. No. 1,047,787; Dec. 17; Gaz. vol. 185; p. 763.
Locking device, Door-. W. Adam. No. 1,035,512; Aug. 13; Gaz. vol. 181; p. 406.
Locking device for boxes, &c. F. J. Macklin, F. W. Trimmer, and C. Harbison. No. 1,033,025; July 16; Gaz. vol. 180; p. 831.
Locking device for receptacles. C. G. H. W. Öhrström and E. H. Wallgren. No. 1,045,070; Nov. 19; Gaz. vol. 184; p. 766.
Locking device for safe and vault doors. S. W. Fish. No. 1,049,069; Dec. 31; Gaz. vol. 185; p. 1267.
Locking device for safe and vault doors, Auxiliary. A. E. Anakin. No. 1,018,952; Feb. 27; Sp. p. 6018; Gaz. vol. 175; p. 1038.
Locking device for traveling and sample cases, &c. J. T. Binkley. No. 1,022,817; Apr. 9; Sp. p. 2283; Gaz. vol. 177; p. 390.
Locking-hook, Coin-controlled. L. Williams. No. 1,039,872; Oct. 1; Gaz. vol. 183; p. 68.
Locking mechanism. F. F. Wilson. No. 1,036,764; Aug. 27; Gaz. vol. 181; p. 904.
Locking mechanism, Coin-controlled. F. J. Rowse. No. 1,043,033; Oct. 29; Gaz. vol. 183; p. 1270.
Locking-washer. C. Bauer. No. 1,020,738; Mar. 19; Sp. p. 3702; Gaz. vol. 176; p. 649.
Locket. J. F. Killion. No. 1,045,155; Nov. 26; Gaz. vol. 184; p. 824.
Locomotive. G. R. Henderson. No. 1,013,771; Jan. 2; Sp. p. 1506; Gaz. vol. 174; p. 238.
Locomotive. T. R. Dawson. No. 1,021,455; Mar. 26; Sp. p. 5220; Gaz. vol. 176; p. 944.
Locomotive. A. F. Batchelder. No. 1,026,552; May 14; Sp. p. 3202; Gaz. vol. 178; p. 529.
Locomotive. F. L. Sessions. No. 1,027,075; May 21; Sp. p. 4432; Gaz. vol. 178; p. 748.
Locomotive. R. N. Lowry. No. 1,027,424; May 28; Sp. p. 5157; Gaz. vol. 178; p. 904.
Locomotive. A. Peterson. No. 1,035,730; Aug. 13; Gaz. vol. 181; p. 479.
Locomotive. F. Martin. No. 1,039,304; Sept. 24; Gaz. vol. 182; p. 808.
Locomotive. T. F. F. Lee. No. 1,044,199; Nov. 12; Gaz. vol. 184; p. 434.
Locomotive. G. J. Hatz. No. 1,044,520; Nov. 19; Gaz. vol. 184; p. 574.
Locomotive and other fire-boxes, Automatic coal-feeding mechanism for. F. A. Jackson. No. 1,018,421; Feb. 27; Sp. p. 4846; Gaz. vol. 175; p. 858.
Locomotive, Articulated. G. M. Eaton. No. 1,036,811; Aug. 27; Gaz. vol. 181; p. 920.
Locomotive ash-pan. C. H. Willis. No. 1,016,464; Feb. 6; Sp. p. 519; Gaz. vol. 175; p. 80.
Locomotive ash-pan. J. F. Dunn. No. 1,021,668; Mar. 26; Sp. p. 5636; Gaz. vol. 176; p. 1014.
Locomotive ash-pan. J. A. Swartz. No. 1,038,987; Sept. 17; Gaz. vol. 182; p. 682.
Locomotive-ash-pan attachment. J. G. Talmage. No. 1,046,403; Dec. 3; Gaz. vol. 185; p. 212.
Locomotive attachment, Steam-. H. T. Aydelott. No. 1,038,515; Sept. 17; Gaz. vol. 182; p. 518.
Locomotive-boiler. W. McArthur. No. 1,015,501; Jan. 23; Sp. p. 5327; Gaz. vol. 174; p. 913.
Locomotive-brake. W. V. Turner. No. 1,039,221; Sept. 24; Gaz. vol. 182; p. 777.
Locomotive-cab drop-seat. J. Heitsch. No. 1,042,913; Oct. 29; Gaz. vol. 183; p. 1228.
Locomotive coupling mechanism. E. H. Schmidt. No. 1,016,782; Feb. 6; Sp. p. 1230; Gaz. vol. 175; p. 190.
Locomotive cross-head. J. D. Lewis. No. 1,040,220; Oct. 1; Gaz. vol. 183; p. 184.
Locomotive current-supplying mechanism. F. L. Sessions. No. 1,035,249; Aug. 13; Gaz. vol. 181; p. 314.
Locomotive drive-wheel. J. F. Franklin. No. 1,039,668; Sept. 24; Gaz. vol. 182; p. 934.
Locomotive-driver-flange lubricator. G. McQuade and N. S. Airhart. No. 1,013,197; Jan. 2; Sp. p. 222; Gaz. vol. 174; p. 37.
Locomotive driving and truck box. J. B. Edwards. No. 1,014,580; Jan. 9; Sp. p. 3246; Gaz. vol. 174; p. 541.
Locomotive driving-box. F. A. Walsh. No. 1,024,918; Apr. 30; Sp. p. 6842; Gaz. vol. 177; p. 1202.
Locomotive-dynamometer. J. E. Phillips and S. T. Park. No. 1,047,696; Dec. 17; Gaz. vol. 185; p. 733.
Locomotive, Electric. F. B. Howell. No. 1,014,825; Jan. 16; Sp. p. 3870; Gaz. vol. 174; p. 657.
Locomotive, Electric. J. E. Webster. No. 1,017,122; Feb. 13; Sp. p. 1989; Gaz. vol. 175; p. 342.
Locomotive, Electric. F. L. Sessions and F. C. Coseo. No. 1,027,073; May 21; Sp. p. 4421; Gaz. vol. 178; p. 747.
Locomotive, Electric and steam. J. F. Pope and H. V. Bennett. No. 1,036,901; Aug. 27; Gaz. vol. 181; p. 949.
Locomotive-engine. F. J. Cole. No. 1,024,620; Apr. 30; Sp. p. 6212; Gaz. vol. 177; p. 1096.
Locomotive-engine. C. L. Heisler. No. 1,038,577; Sept. 17; Gaz. vol. 182; p. 540.
Locomotive exhaust-pipe and spark-arrester. R. H. Smith and B. Craswell. No. 1,032,711; July 16; Gaz. vol. 180; p. 728.
Locomotive, Explosive-engine. J. G. MacPherson. No. 1,035,798; Aug. 13; Gaz. vol. 181; p. 501.
Locomotive-fire-box baffle-wall. H. D. Savage. No. 1,033,952; July 30; Gaz. vol. 180; p. 1208.
Locomotive-fire-box baffle-wall. H. D. Savage. No. 1,033,953; July 30; Gaz. vol. 180; p. 1209.
Locomotive fire-boxes, Air-admission device for. J. G. Talmage. No. 1,047,590; Dec. 17; Gaz. vol. 185; p. 694.
Locomotive fire-boxes, Baffle-wall for. H. D. Savage. No. 1,030,258; June 18; Sp. p. 4755; Gaz. vol. 179; p. 818.
Locomotive fire-boxes, Fire-brick arch for. E. P. Stevens. No. 1,016,454; Feb. 6; Sp. p. 501; Gaz. vol. 175; p. 77.
Locomotive for self-propelled pile-drivers, &c. W. Ferris. No. 1,017,624; Feb. 13; Sp. p. 3030; Gaz. vol. 175; p. 512.
Locomotive-frame. G. Bright. No. 1,039,691; Oct. 1; Gaz. vol. 183; p. 6.
Locomotive front end. L. C. Mooney. No. 1,026,920; May 21; Sp. p. 4040; Gaz. vol. 178; p. 693.
Locomotive-furnace. D. Goff. No. 1,046,583; Dec. 10; Gaz. vol. 185; p. 312.
Locomotive, Internal-combustion. A. H. Ehle. No. 1,018,889; Feb. 27; Sp. p. 5893; Gaz. vol. 175; p. 1016.
Locomotive-journal lubricator. C. B. Moore. No. 1,046,002; Dec. 3; Gaz. vol. 185; p. 70.
Locomotive-journal lubricator. C. B. Moore. No. 1,046,003; Dec. 3; Gaz. vol. 185; p. 70.
Locomotive-lubricator. P. Panhorst. No. 1,033,457; July 23; Gaz. vol. 180; p. 1016.
Locomotive oil-burning apparatus. A. J. Jones. No. 1,042,797; Oct. 29; Gaz. vol. 183; p. 1188.
Locomotive or self-propelled vehicle for use upon railways. C. W. Baker. No. 1,016,602; Feb. 6; Sp. p. 852; Gaz. vol. 175; p. 128.
Locomotive pilot-coupling. G. V. Martin. No. 1,022,859; Apr. 9; Sp. p. 2364; Gaz. vol. 177; p. 404.
Locomotive, Rack-rail. F. L. Sessions. No. 1,027,074; May 21; Sp. p. 4428; Gaz. vol. 178; p. 748.
Locomotive, Rack-rail. F. L. Sessions. No. 1,027,077; May 21; Sp. p. 4439; Gaz. vol. 178; p. 749.
Locomotive, Rack-rail. F. L. Sessions. No. 1,027,078; May 21; Sp. p. 4443; Gaz. vol. 178; p. 749.
Locomotive, Railway-. T. H. Brigg. No. 1,027,810; May 28; Sp. p. 5939; Gaz. vol. 178; p. 1031.
Locomotive sanding apparatus, Attachment for. J. E. Baumberger. No. 1,037,106; Aug. 27; Gaz. vol. 181; p. 1019.
Locomotives, Smoke and gas consumer for. D. Goff. No. 1,028,348; June 4; Sp. p. 629; Gaz. vol. 179; p. 93.
Locomotive smoke-box. B. F. Stannard and A. Aginskee. No. 1,023,970; Apr. 23; Sp. p. 4720; Gaz. vol. 177; p. 837.
Locomotive-superheater. H. L. Henszey. No. 1,026,863; May 21; Sp. p. 3893; Gaz. vol. 178; p. 672.
Locomotive-tender. O. Johnson. No. 1,013,495; Jan. 2; Sp. p. 889; Gaz. vol. 174; p. 142.
Locomotive-tender. O. Johnson. No. 1,027,852; May 28; Sp. p. 6069; Gaz. vol. 178; p. 1046.
Locomotive-tender underframe. H. M. Pflager. No. 1,047,442; Dec. 17; Gaz. vol. 185; p. 640.
Locomotive valve-gears, Inertia device for. J. S. Kiesel. No. 1,037,021; Aug. 27; Gaz. vol. 181; p. 991.

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Locomotives and other power-propelled vehicles for utilizing the resistance of the air, Apparatus on. J. Jaensch. No. 1,042,795; Oct. 29; Gaz. vol. 183; p. 1188.
Locomotives, Drifting device for. P. Sheedy. No. 1,022,052; Apr. 2; Sp. p. 641; Gaz. vol. 177; p. 102.
Locomotives, Steam-pipe for articulated. C. J. Mellin. No. 1,020,435; Mar. 19; Sp. p. 3028; Gaz. vol. 176; p. 548.
Locomotives, Steam-superheating apparatus for. J. Primrose. No. 1,037,313; Sept. 3; Gaz. vol. 182; p. 45.
Locophone. F. Della Torre. No. 1,035,920; Aug. 20; Gaz. vol. 181; p. 581.
Log-car bunks, Collapsible chock for. J. M. Rohlfing. No. 1,029,226; June 11; Sp. p. 2504; Gaz. vol. 179; p. 425.
Log-car stake. J. B. Mainville. No. 1,031,132; July 2; Gaz. vol. 180; p. 101.
Log-carrying car. W. A. Holt. No. 1,020,824; Mar. 19; Sp. p. 3879; Gaz. vol. 176; p. 678.
Log connection for hauling-lines. W. S. Kirby. No. 1,025,472; May 7; Sp. p. 817; Gaz. vol. 178; p. 127.
Log-grapple. C. W. Ramey. No. 1,032,083; July 9; Gaz. vol. 180; p. 467.
Log-handling device. W. C. Farnum. No. 1,041,763; Oct. 22; Gaz. vol. 183; p. 806.
Log-haul shoe. N. Jantzen. No. 1,040,949; Oct. 8; Gaz. vol. 183; p. 463.
Log-impregnating apparatus. W. G. Born. No. 1,043,060; Nov. 5; Gaz. vol. 184; p. 3.
Log-loader. A. Larson. No. 1,016,076; Jan. 30; Sp. p. 6570; Gaz. vol. 174; p. 1140.
Log-loading machine. J. R. McGiffert. No. 1,017,306; Feb. 13; Sp. p. 2389; Gaz. vol. 175; p. 407.
Log peeling and trimming machine. A. Roberts and A. Libert. No. 1,016,442; Feb. 6; Sp. p. 472; Gaz. vol. 175; p. 72.
Log-transporting apparatus. F. W. Viering. No. 1,015,103; Jan. 16; Sp. p. 4467; Gaz. vol. 174; p. 752.
Log-turner. E. J. Whittaker. No. 1,047,599; Dec. 17; Gaz. vol. 185; p. 698.
Log-turning machine. C. R. Speight. No. 1,033,206; July 23; Gaz. vol. 180; p. 932.
Log-turning mechanism. W. M. Wilkin. No. 1,029,482; June 11; Sp. p. 3069; Gaz. vol. 179; p. 514.
Log-unloader. J. W. Bracken. No. 1,048,388; Dec. 24; Gaz. vol. 185; p. 994.
Logging and lumber cars and sleds, Bunk mechanism for. J. O'Day and F. Smith. No. 1,034,494; Aug. 6; Gaz. vol. 181; p. 31.
Logging apparatus. C. W. Russell. No. 1,034,305; July 30; Gaz. vol. 180; p. 1331.
Logging apparatus. C. W. Russell. No. 1,040,423; Oct. 8; Gaz. vol. 183; p. 282.
Logging-bunk. P. A. and F. J. Anlauf. No. 1,020,012; Mar. 12; Sp. p. 2141; Gaz. vol. 176; p. 369.
Logging-cars and the like, Stake for. M. D. Olds. No. 1,047,978; Dec. 24; Gaz. vol. 185; p. 855.
Logging-cars and the like, Stake and stake-seat for. E. A. Gaskill. No. 1,018,818; Feb. 27; Sp. p. 5757; Gaz. vol. 175; p. 993.
Logging-engine. H. L. Turney. No. 1,038,029; Sept. 10; Gaz. vol. 182; p. 320.
Logging-hook. R. H. White. No. 1,025,353; May 7; Sp. p. 548; Gaz. vol. 178; p. 86.
Logging-hook, Choker. A. S. Howe. No. 1,015,493; Jan. 23; Sp. p. 5317; Gaz. vol. 174; p. 911.
Logging-hook, Safety. E. J. Larson. No. 1,045,568; Nov. 26; Gaz. vol. 184; p. 970.
Logging system. C. E. MacFarlane. No. 1,019,170; Mar. 5; Sp. p. 370; Gaz. vol. 176; p. 58.
Logging system. T. W. Hine. No. 1,040,678; Oct. 8; Gaz. vol. 183; p. 376.
Loom. J. W. Herbert. No. 1,016,009; Jan. 30; Sp. p. 6413; Gaz. vol. 174; p. 1116.
Loom. W. Harris. No. 1,020,388; Mar. 12; Sp. p. 2910; Gaz. vol. 176; p. 493.
Loom. E. H. Ryon. No. 1,020,664; Mar. 19; Sp. p. 3534; Gaz. vol. 176; p. 622.
Loom. E. W. Cruikshank and J. A. McAnulty. No. 1,027,996; May 28; Sp. p. 6380; Gaz. vol. 178; p. 1095.
Loom. R. Jamieson. No. 1,029,756; June 18; Sp. p. 3665; Gaz. vol. 179; p. 646.
Loom. W. J. Lutton. No. 1,034,631; Aug. 6; Gaz. vol. 181; p. 75.
Loom. H. Côté. No. 1,035,114; Aug. 6; Gaz. vol. 181; p. 237.
Loom. G. H. Jones. No. 1,035,353; Aug. 13; Gaz. vol. 181; p. 353.
Loom. S. S. Jackson. No. 1,040,203; Oct. 1; Gaz. vol. 183; p. 179.
Loom. R. W. Schrey. No. 1,040,778; Oct. 8; Gaz. vol. 183; p. 407.
Loom. F. Duerrenberger. No. 1,041,254; Oct. 15; Gaz. vol. 183; p. 601.
Loom. J. E. Yarbrough. No. 1,047,363; Dec. 17; Gaz. vol. 185; p. 615.
Loom. J. E. Yarbrough. No. 1,047,364; Dec. 17; Gaz. vol. 185; p. 616.
Loom attachment. A. E. Halvorsen. No. 1,034,363; July 30; Gaz. vol. 180; p. 1352.
Loom attachment. I. Snow. No. 1,046,669; Dec. 10; Gaz. vol. 185; p. 343.
Loom, Automatic filling-replenishing. H. Lussier. No. 1,019,265; Mar. 5; Sp. p. 566; Gaz. vol. 176; p. 90.
Loom, Automatic filling-replenishing. S. D. Eubanks and J. E. McBroom. No. 1,047,186; Dec. 17; Gaz. vol. 185; p. 549.
Loom automatic stop-motion, Ribbon-. E. Miller. No. 1,022,435; Apr. 9; Sp. p. 1449; Gaz. vol. 177; p. 259.
Loom, Automatic weft-replenishing. H. Wyman. No. 1,032,463; July 16; Gaz. vol. 180; p. 641.
Loom, Automatic weft-replenishing. D. M. Hollins. No. 1,038,888; Sept. 17; Gaz. vol. 182; p. 649.
Loom-beam. F. Mossberg. No. 1,044,685; Nov. 19; Gaz. vol. 184; p. 633.
Loom-beams, Supporting means for. A. E. Rhoades. No. 1,013,443; Jan. 2; Sp. p. 775; Gaz. vol. 174; p. 123.
Loom, Circular. C. Whalley. No. 1,017,192; Feb. 13; Sp. p. 2139; Gaz. vol. 175; p. 366.
Loom filling-carriers, Tension and take-up mechanism for. R. A. Hammond and S. E. Taft. No. 1,016,494; Feb. 6; Sp. p. 582; Gaz. vol. 175; p. 90.
Loom filling-detector. E. D. Thayer. No. 1,018,218; Feb. 20; Sp. p. 4400; Gaz. vol. 175; p. 756.
Loom filling-exhaustion-indicating mechanism. A. E. Rhoades. No. 1,024,023; Apr. 23; Sp. p. 4819; Gaz. vol. 177; p. 856.
Loom filling-fork mechanism. E. A. Cunniff. No. 1,013,375; Jan. 2; Sp. p. 631; Gaz. vol. 174; p. 100.
Loom, Filling-replenishing. J. Northrop. No. 1,014,844; Jan. 16; Sp. p. 3915; Gaz. vol. 174; p. 664.
Loom, Filling-replenishing feeler-. A. E. Rhoades. No. 1,019,279; Mar. 5; Sp. p. 613; Gaz. vol. 176; p. 95.
Loom filling-thread-cutting mechanism, Weft-replenishing-. E. P. Ryon. No. 1,034,932; Aug. 6; Gaz. vol. 181; p. 178.
Loom for cocoanut matting, Power-. O. Hallensleben. No. 1,047,798; Dec. 17; Gaz. vol. 185; p. 767.
Loom for weaving coir mats and the like. W. H. Forty. No. 1,019,625; Mar. 5; Sp. p. 1371; Gaz. vol. 176; p. 209.
Loom for weaving gauze. E. K. Geier. No. 1,040,184; Oct. 1; Gaz. vol. 183; p. 172.
Loom for weaving pile fabrics. E. W. Cruikshank and M. R. Elmore. No. 1,027,995; May 28; Sp. p. 6371; Gaz. vol. 178; p. 1094.
Loom for weaving tufted fabrics. G. F. Hutchins. No. 1,033,589; July 23; Gaz. vol. 180; p. 1059.
Loom for weaving warp-pile fabrics. C. B. White. No. 1,023,537; Apr. 16; Sp. p. 3785; Gaz. vol. 177; p. 669.
Loom, Fringe-. H. J. Müller. No. 1,044,226; Nov. 12; Gaz. vol. 184; p. 442.
Loom, Haircloth-. G. S. Cox. No. 1,026,430; May 14; Sp. p. 2967; Gaz. vol. 178; p. 490.
Loom, Hand-. M. M. Kinney. No. 1,020,292; Mar. 12; Sp. p. 2731; Gaz. vol. 176; p. 463.
Loom-harness. B. McAneany. No. 1,036,132; Aug. 20; Gaz. vol. 181; p. 655.
Loom-harness. J. E. Scott. No. 1,047,311; Dec. 17; Gaz. vol. 185; p. 597.
Loom harness-heddle. E. F. Parks. No. 1,014,771; Jan. 16; Sp. p. 3746; Gaz. vol. 174; p. 637.
Loom harness stop-motion. C. Lavallee. No. 1,045,569; Nov. 26; Gaz. vol. 184; p. 970.
Loom, Leno or cross-weaving. F. B. Ricketson and J. Hampson. No. 1,031,733; July 9; Gaz. vol. 180; p. 349.
Loom let-back mechanism. C. Lavallee. No. 1,022,370; Apr. 2; Sp. p. 1284; Gaz. vol. 177; p. 207.
Loom, Multiple. G. Gratreau. No. 1,042,339; Oct. 22; Gaz. vol. 183; p. 1000.
Loom, Narrow-ware or ribbon. G. F. Hutchins. No. 1,048,540; Dec. 31; Gaz. vol. 185; p. 1084.
Loom picker mechanism. J. F. Dustin. No. 1,034,433; Aug. 6; Gaz. vol. 181; p. 12.
Loom picker-spindle. J. Martin. No. 1,017,225; Feb. 13; Sp. p. 2228; Gaz. vol. 175; p. 379.
Loom protecting mechanism. H. Talks. No. 1,018,686; Feb. 27; Sp. p. 5465; Gaz. vol. 175; p. 947.
Loom protecting mechanism. B. F. McGuiness. No. 1,029,937; June 18; Sp. p. 4085; Gaz. vol. 179; p. 709.
Loom selvage-motion. C. Lavallee. No. 1,027,860; May 28; Sp. p. 6087; Gaz. vol. 178; p. 1049.
Loom shedding mechanism, Leno-. W. P. Wood. No. 1,033,507; July 23; Gaz. vol. 180; p. 1032.
Loom-shuttle. A. B. Weissenborn. No. 1,015,524; Jan. 23; Sp. p. 5367; Gaz. vol. 174; p. 920.
Loom-shuttle. W. McCaslin. No. 1,017,782; Feb. 20; Sp. p. 3431; Gaz. vol. 175; p. 604.
Loom-shuttle. E. Lübeck. No. 1,019,977; Mar. 12; Sp. p. 2070; Gaz. vol. 176; p. 357.
Loom-shuttle. T. Mooney. No. 1,023,952; Apr. 23; Sp. p. 4687; Gaz. vol. 177; p. 832.
Loom-shuttle. G. J. Dustin. No. 1,027,703; May 28; Sp. p. 5716; Gaz. vol. 178; p. 996.
Loom-shuttle. G. J. Dustin. No. 1,027,704; May 28; Sp. p. 5718; Gaz. vol. 178; p. 996.
Loom-shuttle. J. A. Claus. No. 1,031,690; July 9; Gaz. vol. 180; p. 334.
Loom-shuttle. C. G. Petzold. No. 1,036,699; Aug. 27; Gaz. vol. 181; p. 883.

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Loom-shuttle. W. H. Portner and D. H. Beaird. No. 1,037,528; Sept. 3; Gaz. vol. 182; p. 119.
Loom-shuttle. A. and S. Widmer. No. 1,038,048; Sept. 10; Gaz. vol. 182; p. 326.
Loom-shuttle. A. W. Saunders and C. O'Neil. No. 1,042,282; Oct. 22; Gaz. vol. 183; p. 981.
Loom, Shuttle-changing. S. Toyoda. No. 1,018,089; Feb. 20; Sp. p. 4132; Gaz. vol. 175; p. 712.
Loom shuttle-check. J. Northrop. No. 1,033,263; July 23; Gaz. vol. 180; p. 952.
Loom shuttle-checking device. A. Petersen. No. 1,013,217; Jan. 2; Sp. p. 279; Gaz. vol. 174; p. 45.
Loom shuttle-checking means. H. Lussier. No. 1,021,842; Apr. 2; Sp. p. 198; Gaz. vol. 177; p. 33.
Loom shuttle-motion. H. Baader. No. 1,018,601; Feb. 27; Sp. p. 5296; Gaz. vol. 175; p. 919.
Loom shuttle-motion. J. A. Gendron. No. 1,036,483; Aug. 20; Gaz. vol. 181; p. 777.
Loom-shuttle, Self-threading. H. A. Kennedy. No. 1,037,020; Aug. 27; Gaz. vol. 181; p. 991.
Loom shuttle-threader. J. N. Le Vasseur-Bellsle. No. 1,043,780; Nov. 5; Gaz. vol. 184; p. 257.
Loom-shuttles, Thread-stripper for. P. Hunt. No. 1,048,538; Dec. 31; Gaz. vol. 185; p. 1083.
Loom stop-motion. G. W. C. Chapman. No. 1,026,342; May 14; Sp. p. 2764; Gaz. vol. 178; p. 462.
Loom stop-motion. A. G. Koechlin. No. 1,028,031; May 28; Sp. p. 6444; Gaz. vol. 178; p. 1105.
Loom stop-motion. H. J. Miller. No. 1,034,275; July 30; Gaz. vol. 180; p. 1322.
Loom, Swivel-. M. Semoff. No. 1,030,928; July 2; Gaz. vol. 180; p. 26.
Loom take-up mechanism. G. A. Coburn. No. 1,023,994; Apr. 23; Sp. p. 4770; Gaz. vol. 177; p. 847.
Loom take-up mechanism. J. Northrop. No. 1,035,808; Aug. 13; Gaz. vol. 181; p. 506.
Loom-temple. G. M. Foster. No. 1,013,543; Jan. 2; Sp. p. 988; Gaz. vol. 174; p. 158.
Loom-temple. J. Northrop. No. 1,027,498; May 28; Sp. p. 5296; Gaz. vol. 178; p. 928.
Loom-temple. E. S. Stimpson. No. 1,037,358; Sept. 3; Gaz. vol. 182; p. 60.
Loom-temple. J. Marvel. No. 1,038,169; Sept. 10; Gaz. vol. 182; p. 365.
Loom tension mechanism. E. E. Sibley. No. 1,024,528; Apr. 30; Sp. p. 5985; Gaz. vol. 177; p. 1065.
Loom thread-parting mechanism. W. McCaslin. No. 1,035,213; Aug. 13; Gaz. vol. 181; p. 302.
Loom thread-parting mechanism. A. E. Rhoades. No. 1,045,437; Nov. 26; Gaz. vol. 184; p. 922.
Loom thread-parting mechanism. A. E. Rhoades. No. 1,045,438; Nov. 26; Gaz. vol. 184; p. 922.
Loom thread-parting mechanism. L. S. Burbank. No. 1,045,508; Nov. 26; Gaz. vol. 184; p. 948.
Loom thread-parting mechanism. A. E. Rhoades. No. 1,047,448; Dec. 17; Gaz. vol. 185; p. 643.
Loom warp stop-motion. W. I. Stimpson and A. E. Rhoades. No. 1,013,966; Jan. 9; Sp. p. 1964; Gaz. vol. 174; p. 333.
Loom warp stop-motion. W. H. Knox and H. M. White. No. 1,014,399; Jan. 9; Sp. p. 2920; Gaz. vol. 174; p. 483.
Loom warp-stop motion. W. H. Spencer. No. 1,015,593; Jan. 23; Sp. p. 5529; Gaz. vol. 174; p. 946.
Loom warp stop-motion. H. W. Bracken. No. 1,031,237; July 2; Gaz. vol. 180; p. 137.
Loom warp stop-motion. H. I. Harriman. No. 1,032,542; July 16; Gaz. vol. 180; p. 668.
Loom warp stop-motion. J. F. Dustin. No. 1,043,814; Nov. 12; Gaz. vol. 184; p. 301.
Loom warp stop-motion. J. F. Dustin. No. 1,043,815; Nov. 12; Gaz. vol. 184; p. 301.
Loom warp stop-motion. J. Northrop. No. 1,045,169; Nov. 26; Gaz. vol. 184; p. 828.
Loom warp stop-motion. J. Northrop. No. 1,045,170; Nov. 26; Gaz. vol. 184; p. 829.
Loom warp stop-motion. G. Koch. No. 1,047,080; Dec. 10; Gaz. vol. 185; p. 481.
Loom warp stop-motion. G. Koch. No. 1,047,081; Dec. 10; Gaz. vol. 185; p. 481.
Loom warp tension device. H. Lindsay. No. 1,044,205; Nov. 12; Gaz. vol. 184; p. 436.
Loom warping-cleaver. B. F. Abbott. No. 1,023,703; Apr 16; Sp. p. 4106; Gaz. vol. 177; p. 721.
Loom weft-feeler device. S. S. Jackson. No. 1,017,055; Feb. 13; Sp. p. 1834; Gaz. vol. 175; p. 318.
Loom, Weft-replenishing. E. H. Ryon. No. 1,022,108; Apr. 2; Sp. p. 750; Gaz. vol. 177; p. 120.
Loom, Weft-replenishing. E. H. Ryon. No. 1,022,109; Apr. 2; Sp. p. 752; Gaz. vol. 177; p. 120.
Loom, Weft-replenishing. E. H. Ryon. No. 1,029,948; June 18; Sp. p. 4105; Gaz. vol. 179; p. 712.
Loom, Weft-replenishing. A. A. Gordon, Jr. No. 1,030,077; June 18; Sp. p. 4382; Gaz. vol. 179; p. 756.
Loom, Weft-replenishing. E. H. Ryon. No. 1,030,748; June 25; Sp. p. 6065; Gaz. vol. 179; p. 1033.
Loom, Weft-replenishing. A. F. Morell. No. 1,041,844; Oct. 22; Gaz. vol. 183; p. 836.
Loom, Weft-replenishing. B. Elmendorf and J. Gabler. No. 1,042,774; Oct. 29; Gaz. vol. 183; p. 1181.
Loom, Weft-replenishing. E. H. Ryon. No. 1,045,443; Nov. 26; Gaz. vol. 184; p. 924.
Looms, Automatic bobbin-exchanging device for. A. G. Koechlin. No. 1,041,304; Oct. 15; Gaz. vol. 183; p. 618.
Looms, Automatic filling-replenishing mechanism for. E. S. Stimpson. No. 1,019,098; Mar. 5; Sp. p. 198; Gaz. vol. 176; p. 32.
Looms, Automatic spool-changing apparatus for. A. G. Koechlin. No. 1,038,898; Sept. 17; Gaz. vol. 182; p. 652.
Looms, Automatic spool-changing apparatus for. A. G. Koechlin. No. 1,039,547; Sept. 24; Gaz. vol. 182; p. 893.
Looms, Automatic weft-replenishing mechanism for. J. C. A. Wenning. No. 1,028,513; June 4; Sp. p. 988; Gaz. vol. 179; p. 149.
Looms, Batten structure for narrow-ware. F. Benz, Jr. No. 1,013,365; Jan. 2; Sp. p. 606; Gaz. vol. 174; p. 97.
Looms, Batten structure for narrow-ware. F. Benz, Jr. No. 1,017,076; Feb. 13; Sp. p. 1896; Gaz. vol. 175; p. 327.
Looms, Batten structure for narrow-ware. F. Benz, Jr. No. 1,032,321; July 9; Gaz. vol. 180; p. 549.
Looms, Batten structure for narrow-ware. J. Frank and F. Benz, Jr. No. 1,032,396; July 16; Gaz. vol. 180; p. 619.
Looms, Batten structure for narrow-ware. A. and S. Widmer. No. 1,032,574; July 16; Gaz. vol. 180; p. 678.
Looms, Bobbin for weaving-. A. Marazzi. No. 1,029,020; June 11; Sp. p. 2074; Gaz. vol. 179; p. 357.
Looms, Bobbin-hopper for filling-changing. R. Crompton and W. Lunney. No. 1,018,168; Feb. 20; Sp. p. 4309; Gaz. vol. 175; p. 740.
Looms, Cloth-stop for. A. L. Tolman. No. 1,017,273; Feb. 13; Sp. p. 2317; Gaz. vol. 175; p. 394.
Looms, Controlling mechanism for automatic feeler-. A. E. Rhoades. No. 1,020,622; Mar. 19; Sp. p. 3440; Gaz. vol. 176; p. 608.
Looms, Feeler-motion for. V. Ra[illegible]ville. No. 1,040,409; Oct. 8; Gaz. vol. 183; p. 278.
Looms, Filling-guide for. R. Jamieson. No. 1,047,945; Dec. 24; Gaz. vol. 185; p. 846.
Looms, Filling-thread-cutting mechanism for weft-replenishing. E. H. Ryon. No. 1,041,882; Oct. 22; Gaz. vol. 183; p. 849.
Looms, Filling-thread-cutting mechanism for weft-replenishing. E. H. Ryon. No. 1,048,591; Dec. 31; Gaz. vol. 185; p. 1100.
Looms for weaving, Automatic weft-replenishing mechanism of. J. and R. Harling. No. 1,028,456; June 4; Sp. p. 868; Gaz. vol. 179; p. 130.
Looms for weaving, Mechanism for putting cover on cloth in. N. Fish and H. Hodgkinson. No. 1,022,229; Apr. 2; Sp. p. 1012; Gaz. vol. 177; p. 162.
Looms, Hopper mechanism for automatic. E. S. Stimpson. No. 1,019,855; Mar. 12; Sp. p. 1808; Gaz. vol. 176; p. 317.
Looms, Locking device for filling-detectors of weft-replenishing. E. H. Ryon. No. 1,040,985; Oct. 8; Gaz. vol. 183; p. 477.
Looms. Magazine-stop for weft-replenishing. E. S. Stimpson. No. 1,038,678; Sept. 17; Gaz. vol. 182; p. 575.
Looms, Magazine-stop for weft-replenishing. E. S. Stimpson. No. 1,038,679; Sept. 17; Gaz. vol. 182; p. 576.
Looms, Pick-finder device for. S. S. Jackson. No. 1,021,151; Mar. 26; Sp. p. 4544; Gaz. vol. 176; p. 837.
Looms, Pick-finder device for. S. S. Jackson. No. 1,040,547; Oct. 8; Gaz. vol. 183; p. 326.
Looms, Pick-finder device for. S. S. Jackson. No. 1,041,089; Oct. 15; Gaz. vol. 183; p. 545.
Looms, Reed and beating-up mechanism for. R. Farnworth and T. T. Jackson. No. 1,030,575; June 25; Sp. p. 5583; Gaz. vol. 179; p. 971.
Looms, Shipper-locking means for. C. W. Megginson. No. 1,042,461; Oct. 29; Gaz. vol. 183; p. 1070.
Looms, Thread-collecting means for automatic. A. E. Rhoades. No. 1,020,662; Mar. 19; Sp. p. 3524; Gaz. vol. 176; p. 621.
Looms, Thread-cutting mechanism for automatic. D. M. Hollins. No. 1,018,496; Feb. 27; Sp. p. 5019; Gaz. vol. 175; p. 883.
Looms, &c., Wage-registering apparatus for power-. S. Marschik. No. 1,034,920; Aug. 6; Gaz. vol. 181; p. 173.
Looms, Warp stop-motion for pile-fabric. S. B. Cutting and E. Marshall. No. 1,019,026; Mar. 5; Sp. p. 22; Gaz. vol. 176; p. 7.
Looms, Weft-end support in Northrop. A. Marchal. No. 1,013,884; Jan. 9; Sp. p. 1774; Gaz. vol. 174; p. 304.
Looms, Weft-parter device for. S. S. Jackson. No. 1,023,108; Apr. 9; Sp. p. 2881; Gaz. vol. 177; p. 490.
Looms with mechanical bobbin change, Formation of the thread-reserve for. A. Marazzi. No. 1,019,329; Mar. 5; Sp. p. 729; Gaz. vol. 176; p. 113.
Looms, Yarn-tension for. L. Knight. No. 1,019,053; Mar. 5; Sp. p. 88; Gaz. vol. 176; p. 18.
Loop, Adjusting-. F. Hirsh. No. 1,043,425; Nov. 5; Gaz. vol. 184; p. 136.
Loop-doubling mechanism. F. W. Robinson. No. 1,021,800; Apr. 2; Sp. p. 96; Gaz. vol. 177; p. 19.

Alphabetical list of inventions—Continued.

Looping-machine. M. Koebler. No. 1,026,808; May 21; Sp. p. 3776; Gaz. vol. 178; p. 654.
Loose-leaf clip and note-book holder, Combined. H. R. Shafer. No. 1,048,217; Dec. 24; Gaz. vol. 185; p. 936.
Loose-leaf device. M. B. Williams. No. 1,031,220; July 2; Gaz. vol. 180; p. 131.
Lorgnette. A. Spansy. No. 1,031,298; July 2; Gaz. vol. 180; p. 158.
Lorgnette. G. A. Briggs. No. 1,035,853; Aug. 20; Gaz. vol. 181; p. 558.
Loss-preventing device. W. P. Smith. No. 1,032,436; July 16; Gaz. vol. 180; p. 632.
Loss-preventing device. J. R. Douglass. No. 1,039,662; Sept. 24; Gaz. vol. 182; p. 932.
Low-water alarm. A. G. Henke, Jr. No. 1,031,262; July 2; Gaz. vol. 180; p. 146.
Low-water alarm for steam-boilers. L. S. Watres. No. 1,045,484; Nov. 26; Gaz. vol. 184; p. 940.
Lowering device. K. Szentivanyi. No. 1,021,643; Mar. 26; Sp. p. 5598; Gaz. vol. 176; p. 1006.
Lubricant and preparing the same, Non-inflammable. J. W. Aylsworth. No. 1,028,926; June 11; Sp. p. 1874; Gaz. vol. 179; p. 324.
Lubricant-applicators, Holder for fibrous. J. M. Strickland. No. 1,047,852; Dec. 17; Gaz. vol. 185; p. 786.
Lubricant-cup. G. W. Bowen. No. 1,024,672; Apr. 30; Sp. p. 6327; Gaz. vol. 177; p. 1115.
Lubricant-cup. G. W. Bowen. No. 1,047,736; Dec. 17; Gaz. vol. 185; p. 746.
Lubricant device. H. K. Sandell. No. 1,024,150; Apr. 23; Sp. p. 5127; Gaz. vol. 177; p. 901.
Lubricant-retainer. H. C. Pease. No. 1,042,719; Oct. 29; Gaz. vol. 183; p. 1162.
Lubricating apparatus. L. S. Watres. No. 1,017,935; Feb. 20; Sp. p. 3792; Gaz. vol. 175; p. 658.
Lubricating apparatus, Automatic. M. S. Beaton, J. Eason, and J. H. Wilson. No. 1,040,491; Oct. 8; Gaz. vol. 183; p. 305.
Lubricating apparatus, Intermittent grip device for. C. Pottel. No. 1,021,475; Mar. 26; Sp. p. 5274; Gaz. vol. 176; p. 951.
Lubricating bearings. J. F. Craven. No. 1,025,510; May 7; Sp. p. 897; Gaz. vol. 178; p. 140.
Lubricating compound for compressed-air apparatus, Solid. E. A. Emery. No. 1,020,893; Mar. 19; Sp. p. 4011; Gaz. vol. 176; p. 700.
Lubricating-cup. C. H. Newhall. No. 1,022,107; Apr. 2; Sp. p. 748; Gaz. vol. 177; p. 119.
Lubricating device. C. S. Bavler. No. 1,014,744; Jan. 16; Sp. p. 3682; Gaz. vol. 174; p. 629.
Lubricating device. L. A. Sanford. No. 1,017,020; Feb. 13; Sp. p. 1748; Gaz. vol. 175; p. 305.
Lubricating device. F. D. Holdsworth. No. 1,019,645; Mar. 5; Sp. p. 1407; Gaz. vol. 176; p. 216.
Lubricating device. F. Lobnitz. No. 1,020,210; Mar. 12; Sp. p. 2572; Gaz. vol. 176; p. 436.
Lubricating device. E. T. McKaig. No. 1,021,421; Mar. 26; Sp. p. 5151; Gaz. vol. 176; p. 932.
Lubricating device. I. Larsen. No. 1,026,322; May 14; Sp. p. 2716; Gaz. vol. 178; p. 454.
Lubricating device. A. J. West. No. 1,027,092; May 21; Sp. p. 4475; Gaz. vol. 178; p. 754.
Lubricating device. G. A. Ambler. No. 1,028,176; June 4; Sp. p. 275; Gaz. vol. 179; p. 34.
Lubricating device. I. Larsen. No. 1,028,745; June 4; Sp. p. 1466; Gaz. vol. 179; p. 226.
Lubricating device. C. R. Adams. No. 1,032,724; July 16; Gaz. vol. 180; p. 732.
Lubricating device. W. J. Wright. No. 1,035,402; Aug. 13; Gaz. vol. 181; p. 370.
Lubricating device. F. Diehl. No. 1,037,217; Sept. 3; Gaz. vol. 182; p. 13.
Lubricating device. O. H. L. Wernicke. No. 1,037,383; Sept. 3; Gaz. vol. 182; p. 69.
Lubricating device. K. Schwarz. No. 1,039,448; Sept. 24; Gaz. vol. 182; p. 856.
Lubricating device. S. Plymale. No. 1,043,141; Nov. 5; Gaz. vol. 184; p. 33.
Lubricating device. J. W. Bullock. No. 1,047,743; Dec. 17; Gaz. vol. 185; p. 749.
Lubricating device, Automatic. O. Winkler. No. 1,029,331; June 11; Sp. p. 2739; Gaz. vol. 179; p. 463.
Lubricating device, Chain-. J. M. Barrett. No. 1,042,996; Oct. 29; Gaz. vol. 183; p. 1256.
Lubricating device for wheel-flanges. C. L. Tanner. No. 1,027,930; May 28; Sp. p. 6243; Gaz. vol. 178; p. 1072.
Lubricating emulsion. E. A. Emery. No. 1,035,868; Aug. 20; Gaz. vol. 181; p. 564.
Lubricating-gun. E. J. Rohrbacher. No. 1,029,718; June 18; Sp. p. 3590; Gaz. vol. 179; p. 634.
Lubricating mechanism. D. S. Waugh. No. 1,022,284; Apr. 2; Sp. p. 1121; Gaz. vol. 177; p. 178.
Lubricating or oiling device. T. B. Sarsfield. No. 1,030,129; June 18; Sp. p. 4473; Gaz. vol. 179; p. 773.
Lubricating pneumatic machinery. E. A. Emery. No. 1,019,772; Mar. 12; Sp. p. 1662; Gaz. vol. 176; p. 289.
Lubricating system. P. Daimler. No. 1,013,644; Jan. 2; Sp. p. 1201; Gaz. vol. 174; p. 192.
Lubricating system. W. H. Lieber. No. 1,014,628; Jan. 9; Sp. p. 3394; Gaz. vol. 174; p. 559.
Lubricating system. J. Lovell. No. 1,043,853; Nov. 12; Gaz. vol. 184; p. 314.
Lubricating system. R. R. Lapointe and B. F. Levy. No. 1,047,819; Dec. 17; Gaz. vol. 185; p. 775.
Lubricating system and apparatus. F. W. Van Ness. No. 1,019,103; Mar. 5; Sp. p. 206; Gaz. vol. 176; p. 33.
Lubricating system for centrifugal machines. A. G. G. Salenius. No. 1,045,751; Nov. 26; Gaz. vol. 184; p. 1034.
Lubricating system for engines. B. H. Turnage. No. 1,017,189; Feb. 13; Sp. p. 2134; Gaz. vol. 175; p. 365.
Lubricating-wheel. L. J. Tetlow. No. 1,043,741; Nov. 5; Gaz. vol. 184; p. 244.
Lubrication, Splash system of. E. M. White. No. 1,030,148; June 18; Sp. p. 4517; Gaz. vol. 179; p. 780.
Lubrication system, Forced-. J. F. Key. No. 1,013,180; Jan. 2; Sp. p. 179; Gaz. vol. 174; p. 32.
Lubrication system, Splash-. A. P. Brush. No. 1,041,735; Oct. 22; Gaz. vol. 183; p. 796.
Lubricator: *See* Axle-lubricator; Axle-spindle lubricator; Candlestick-lubricator; Elevator-guide lubricator; Elevator-guide-rail lubricator; Engine-lubricator; Force-feed lubricator; Grease-cup or lubricator; Hydraulic lubricator; Journal-lubricator; Journal-bearing automatic lubricator; Locomotive-lubricator; Locomotive-journal lubricator; Mechanical lubricator; Pump-lubricator; Sight-feed lubricator; Steam-lubricator; Traveling lubricator; Wheel-flange lubricator.
Lubricator. E. E. Cope. No. 1,014,568; Jan. 9; Sp. p. 3222; Gaz. vol. 174; p. 536.
Lubricator. G. Tugwell. No. 1,016,238; Jan. 30; Sp. p. 6861; Gaz. vol. 174; p. 1192.
Lubricator. J. P. Lavigne. No. 1,016,569; Feb. 6; Sp. p. 783; Gaz. vol. 175; p. 116.
Lubricator. F. S. Oliver. No. 1,016,642; Feb. 6; Sp. p. 947; Gaz. vol. 175; p. 142.
Lubricator. C. W. Manzel. No. 1,019,167; Mar. 5; Sp. p. 356; Gaz. vol. 176; p. 56.
Lubricator. C. H. Newhall. No. 1,021,943; Apr. 2; Sp. p. 400; Gaz. vol. 177; p. 66.
Lubricator. C. H. Newhall. No. 1,021,944; Apr. 2; Sp. p. 402; Gaz. vol. 177; p. 66.
Lubricator. H. E. Coffin. No. 1,022,622; Apr. 9; Sp. p. 1836; Gaz. vol. 177; p. 321.
Lubricator. L. Kassander and O. Best. No. 1,022,741; Apr. 9; Sp. p. 2131; Gaz. vol. 177; p. 365.
Lubricator. L. Kassander and O. Best. No. 1,022,952; Apr. 9; Sp. p. 2570; Gaz. vol. 177; p. 436.
Lubricator. J. Kripinger. No. 1,023,662; Apr. 16; Sp. p. 4043; Gaz. vol. 177; p. 709.
Lubricator. A. Mlitz. No. 1,025,581; May 7; Sp. p. 1072; Gaz. vol. 178; p. 165.
Lubricator. B. F. Howard. No. 1,026,867; May 21; Sp. p. 3901; Gaz. vol. 178; p. 674.
Lubricator. J. F. MacIndoe. No. 1,026,961; May 21; Sp. p. 4157; Gaz. vol. 178; p. 709.
Lubricator. H. C. Noffsinger. No. 1,029,454; June 11; Sp. p. 3019; Gaz. vol. 179; p. 505.
Lubricator. I. Larsen. No. 1,030,667; June 25; Sp. p. 5877; Gaz. vol. 179; p. 1005.
Lubricator. E. McCoy. No. 1,031,948; July 9; Gaz. vol. 180; p. 423.
Lubricator. J. Horn and T. W. Keen. No. 1,032,361; July 9; Gaz. vol. 180; p. 563.
Lubricator. A. R. Pribil. No. 1,032,502; July 16; Gaz. vol. 180; p. 655.
Lubricator. M. Taylor. No. 1,032,570; July 16; Gaz. vol. 180; p. 677.
Lubricator. M. Glass. No. 1,034,612; Aug. 6; Gaz. vol. 181; p. 69.
Lubricator. G. H. Gilman. No. 1,035,117; Aug. 6; Gaz. vol. 181; p. 238.
Lubricator. R. D. Clark. No. 1,035,156; Aug. 13; Gaz. vol. 181; p. 282.
Lubricator. F. R. Peterson. No. 1,035,465; Aug. 13; Gaz. vol. 181; p. 391.
Lubricator. H. Gibbs. No. 1,036,216; Aug. 20; Gaz. vol. 181; p. 687.
Lubricator. H. A. Swanson. No. 1,036,929; Aug. 27; Gaz. vol. 181; p. 958.
Lubricator. C. E. Kells, Jr. No. 1,037,923; Sept. 10; Gaz. vol. 182; p. 284.
Lubricator. W. H. Beatty. No. 1,040,122; Oct. 1; Gaz. vol. 183; p. 151.
Lubricator. P. H. Caraway. No. 1,040,142; Oct. 1; Gaz. vol. 183; p. 158.
Lubricator. H. E. Coffin. No. 1,045,772; Nov. 26; Gaz. vol. 184; p. 1041.
Lubricator. F. P. Day and C. C. Hartzoge. No. 1,049,059; Dec. 31; Gaz. vol. 185; p. 1264.
Lubricator-filling vessel. A. A. Bowser. No. 1,015,470; Jan. 23; Sp. p. 5267; Gaz. vol. 174; p. 902.
Lubricator sight-feed. F. W. Edwards. (Reissue.) No. 13,474; Oct. 8; Gaz. vol. 183; p. 478.
Lug-strap connector. F. McCollum and A. C. Hanner. No. 1,015,816; Jan. 30; Sp. p. 5992; Gaz. vol. 174; p. 1048.
Luggage and hat rack, Folding. D. R. Kinney. No. 1,021,838; Apr. 2; Sp. p. 194; Gaz. vol. 177; p. 32.
Luggage-carrier. J. A. Watson. No. 1,016,381; Feb. 6; Sp. p. 317; Gaz. vol. 175; p. 50.

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Luggage-carrier. J. Biderman. No. 1,031,165; July 2; Gaz. vol. 180; p. 112.
Lumber-drying kiln. R. C. Fickett. No. 1,048,448; Dec. 24; Gaz. vol. 185; p. 1013.
Lumber-gage. A. B. Welsh. No. 1,034,547; Aug. 6; Gaz. vol. 181; p. 49.
Lumber-jack. J. D. Stegeman. No. 1,013,826; Jan. 2; Sp. p. 1605; Gaz. vol. 174; p. 256.
Lumber-jack. C. E. Evans. No. 1,027,191; May 21; Sp. p. 4670; Gaz. vol. 178; p. 785.
Lumber-patching machine. T. Robinson. No. 1,048,886; Dec. 31; Gaz. vol. 185; p. 1204.
Lumber-piling machine. W. Larson. No. 1,045,045; Nov. 19; Gaz. vol. 184; p. 758.
Luminous fountain. S. Leichner. No. 1,018,431; Feb. 27; Sp. p. 4867; Gaz. vol. 175; p. 861.
Lunch-box. G. F. Murdock. No. 1,013,208; Jan. 2; Sp. p. 242; Gaz. vol. 174; p. 41.
Lunch-box. C. Christian. No. 1,043,203; Nov. 5; Gaz. vol. 184; p. 56.
Lunch-box, Folding. C. W. Schleier. No. 1,018,378; Feb. 20; Sp. p. 4732; Gaz. vol. 175; p. 810.
Lunch-heater. M. Krzewinski. No. 1,045,857; Dec. 3; Gaz. vol. 185; p. 22.
Lye from fabrics, Apparatus for removing. J. Matter. No. 1,037,280; Sept. 3; Gaz. vol. 182; p. 34.
Lyes, Purifying waste mercerization-. P. Krais. No. 1,035,882; Aug. 20; Gaz. vol. 181; p. 569.
Macadam, Machine for cleaning, drying, heating, and mixing tarred. R. Ames. No. 1,041,226; Oct. 15; Gaz. vol. 183; p. 591.
Machine attachment. H. J. Haegen. No. 1,035,961; Aug. 20; Gaz. vol. 181; p. 595.
Machine-brake. C. Evers. No. 1,036,594; Aug. 27; Gaz. vol. 181; p. 849.
Machine element. W. H. Robinson. No. 1,036,720; Aug. 27; Gaz. vol. 181; p. 890.
Machine element. J. Olson. No. 1,043,247; Nov. 5; Gaz. vol. 184; p. 71.
Machine-output-indicating device. C. Hickton. No. 1,013,390; Jan. 2; Sp. p. 662; Gaz. vol. 174; p. 105.
Machine-tool. J. H. Hamilton. No. 1,023,203; Apr. 16; Sp. p. 3136; Gaz. vol. 177; p. 561.
Machine-tool. W. Ricks. No. 1,041,874; Oct. 22; Gaz. vol. 183; p. 846.
Machine-tools, Apparatus for electrically controlling. C. Krämer. No. 1,028,033; May 28; Sp. p. 6453; Gaz. vol. 178; p. 1106.
Machine-tools, Automatic tripping device for the feed mechanism of. L. H. Colburn. No. 1,017,635; Feb. 13; Sp. p. 3061; Gaz. vol. 175; p. 516.
Machines, Noiseless case for noisy. J. F. O'Byrne. No. 1,042,957; Oct. 29; Gaz. vol. 183; p. 1242.
Machinery, Means for preventing or subduing noise in running. J. Felbel. No. 1,031,636; July 2; Gaz. vol. 180; p. 273.
Machinery safety device. R. B. Benjamin. No. 1,046,373; Dec. 3; Gaz. vol. 185; p. 200.
Machinery safety manipulating device. R. B. Benjamin. No. 1,046,374; Dec. 3; Gaz. vol. 185; p. 200.
Magazine-pipe. J. E. Boyd. No. 1,018,293; Feb. 20; Sp. p. 4556; Gaz. vol. 175; p. 782.
Magazines, Latch for rotary. O. M. Lissak. No. 1,042,241; Oct. 22; Gaz. vol. 183; p. 968.
Magazines, pamphlets, sheet-music, &c., Cover for. E. Davidson. No. 1,029,280; June 11; Sp. p. 2619; Gaz. vol. 179; p. 444.
Magnesia, Manufacture of. E. G. Zies. No. 1,031,502; July 2; Gaz. vol. 180; p. 228.
Magnesium and alloys thereof, Melting and casting. B. Hoffmann and R. Suchy. No. 1,028,216; June 4; Sp. p. 350; Gaz. vol. 179; p. 48.
Magnesium carbonate, Manufacturing. F. S. Young. No. 1,034,330; July 30; Gaz. vol. 180; p. 1340.
Magnet-actuated device. D. H. Darrin. No. 1,015,787; Jan. 30; Sp. p. 5938; Gaz. vol. 174; p. 1039.
Magnet apparatus, Alternating-current brake-. A. Sundh. No. 1,031,743; July 9; Gaz. vol. 180; p. 353.
Magnet-frame for electric ignition-machines. G. Honold. No. 1,020,143; Mar. 12; Sp. p. 2415; Gaz. vol. 176; p. 412.
Magnet, Interpole field-. R. Lundell. No. 1,045,159; Nov. 26; Gaz. vol. 184; p. 825.
Magnet, Lifting-. A. C. Eastwood. No. 1,015,728; Jan. 23; Sp. p. 5812; Gaz. vol. 174; p. 991.
Magnet protective and demagnetizing device, Brake-. D. L. Lindquist. No. 1,041,641; Oct. 15; Gaz. vol. 183; p. 727.
Magnet protective device, Brake-. E. L. Gale, Sr. No. 1,014,216; Jan. 9; Sp. p. 2489; Gaz. vol. 174; p. 419.
Magnetic brake. E. W. Robinson. No. 1,046,024; Dec. 3; Gaz. vol. 185; p. 76.
Magnetic lifting appliance. G. Kröhne. No. 1,047,954; Dec. 24; Gaz. vol. 185; p. 849.
Magnetic materials, Making. R. A. Hadfield. No. 1,014,218; Jan. 9; Sp. p. 2497; Gaz. vol. 174; p. 420.
Magnetic needle. C. L. Berger. No. 1,016,732; Feb. 6; Sp. p. 1123; Gaz. vol. 175; p. 172.
Magnetic objects of oblong shape, Machine for facilitating the packing of. O. Gamper. No. 1,014,869; Jan. 16; Sp. p. 3978; Gaz. vol. 174; p. 673.
Magnetic pole-pieces, Making. O. Wingaard. No. 1,017,031; Feb. 13; Sp. p. 1776; Gaz. vol. 175; p. 309.
Magnetic separator. J. Weatherby, Jr., and A. J. Dull. No. 1,024,045; Apr. 23; Sp. p. 4876; Gaz. vol. 177; p. 864.
Magnetic separator. J. Weatherby, Jr. No. 1,024,538; Apr. 30; Sp. p. 6011; Gaz. vol. 177; p. 1069.
Magnetic separator. F. C. Heinen. No. 1,026,673; May 21; Sp. p. 3480; Gaz. vol. 178; p. 608.
Magnetic separator. G. Ullrich. No. 1,037,563; Sept. 3; Gaz. vol. 182; p. 131.
Magnetic separator. G. Ullrich. No. 1,046,685; Dec. 10; Gaz. vol. 185; p. 348.
Magnetic separator. D. A. Griffiths. No. 1,048,824; Dec. 31; Gaz. vol. 185; p. 1184.
Magneto. J. M. Dinkins and F. B. Hays. No. 1,014,622; Jan. 9; Sp. p. 3360; Gaz. vol. 174; p. 556.
Magneto. S. L. Kelly. No. 1,015,623; Jan. 23; Sp. p. 5585; Gaz. vol. 174; p. 957.
Magneto. J. E. Seeley. No. 1,017,597; Feb. 13; Sp. p. 2983; Gaz. vol. 175; p. 504.
Magneto. A. Schmidt. No. 1,026,054; May 14; Sp. p. 2124; Gaz. vol. 178; p. 361.
Magneto. E. C. Wilcox. No. 1,027,023; May 21; Sp. p. 4288; Gaz. vol. 178; p. 729.
Magneto. C. E. Johnson. No. 1,038,592; Sept. 17; Gaz. vol. 182; p. 545.
Magneto. T. Hubert. No. 1,045,406; Nov. 26; Gaz. vol. 184; p. 910.
Magneto-electric machine. F. R. Simms. No. 1,039,454; Sept. 24; Gaz. vol. 182; p. 859.
Magneto for internal-combustion engines. A. Durbin. No. 1,022,832; Apr. 9; Sp. p. 2316; Gaz. vol. 177; p. 396.
Magneto-generators, Operating mechanism for. A. Zähringer. No. 1,023,348; Apr. 16; Sp. p. 3417; Gaz. vol. 177; p. 610.
Magneto, Inductor-. R. C. Lanphier. No. 1,027,550; May 28; Sp. p. 5396; Gaz. vol. 178; p. 945.
Magneto interrupter and timer. C. Cuno. No. 1,029,914; June 18; Sp. p. 4037; Gaz. vol. 179; p. 701.
Magneto-mounting. W. S. Lee. No. 1,043,116; Nov. 5; Gaz. vol. 184; p. 24.
Magneto-shaft relative to a motor-shaft, Means for advancing or retarding a. A. Levedahl. No. 1,027,056; May 21; Sp. p. 4370; Gaz. vol. 178; p. 741.
Magnifier, Binocular. C. J. Troppman. No. 1,033,965; July 30; Gaz. vol. 180; p. 1213.
Magnifying-glass. J. Hampson. No. 1,025,057; Apr. 30; Sp. p. 7099; Gaz. vol. 177; p. 1248.
Magnifying small mechanical effects, Electrical means for. E. S. Heurtley. No. 1,029,123; June 11; Sp. p. 2286; Gaz. vol. 179; p. 390.
Mail and order box, Combined. C. Hodlmair. No. 1,035,347; Aug. 13; Gaz. vol. 181; p. 350.
Mail and other bag fastener. E. J. Hillman. No. 1,040,324; Oct. 8; Gaz. vol. 183; p. 250.
Mail and package carrier, Automatic. C. A. Lowe and J. C. Atkinson. No. 1,035,368; Aug. 13; Gaz. vol. 181; p. 358.
Mail and parcel collecting and distributing system. R. G. Starkweather. No. 1,024,707; Apr. 30; Sp. p. 6398; Gaz. vol. 177; p. 1127.
Mail and parcel collection and delivery system. R. G. Starkweather. No. 1,024,706; Apr. 30; Sp. p. 6393; Gaz. vol. 177; p. 1126.
Mail-bag. E. G. Kimmel. No. 1,021,837; Apr. 2; Sp. p. 192; Gaz. vol. 177; p. 31.
Mail-bag and bag-support. H. T. Cook. No. 1,027,524; May 28; Sp. p. 5346; Gaz. vol. 178; p. 936.
Mail-bag catcher. R. S. Veach. No. 1,014,678; Jan. 16; Sp. p. 3553; Gaz. vol. 174; p. 607.
Mail-bag catcher. M. N. George. No. 1,019,629; Mar. 5; Sp. p. 1380; Gaz. vol. 176; p. 210.
Mail-bag catcher and deliverer. J. L. Adam. No. 1,025,042; Apr. 30; Sp. p. 7074; Gaz. vol. 177; p. 1243.
Mail-bag catcher and deliverer. G. Hall and J. Brand. No. 1,029,440; June 11; Sp. p. 2989; Gaz. vol. 179; p. 500.
Mail-bag catcher and deliverer. G. W. Wilson. No. 1,038,051; Sept. 10; Gaz. vol. 182; p. 327.
Mail-bag catcher and deliverer. G. W. Pomeroy. No. 1,039,798; Oct. 1; Gaz. vol. 183; p. 43.
Mail-bag catcher and deliverer. B. B. and W. A. Clark. No. 1,041,962; Oct. 22; Gaz. vol. 183; p. 875.
Mail-bag catcher and deliverer. S. P. Stallard. No. 1,047,848; Dec. 17; Gaz. vol. 185; p. 785.
Mail-bag catcher and deliverer, Automatic. R. Koch. No. 1,017,976; Feb. 20; Sp. p. 3889; Gaz. vol. 175; p. 673.
Mail-bag catching and delivering apparatus. E. R. Simpson. No. 1,021,341; Mar. 26; Sp. p. 4954; Gaz. vol. 176; p. 905.
Mail-bag catching and delivering apparatus. W. M. Smith. No. 1,041,688; Oct. 15; Gaz. vol. 183; p. 744.
Mail-bag catching and delivery device. C. R. Bennett. No. 1,045,767; Nov. 26; Gaz. vol. 184; p. 1039.
Mail-bag deliverer. G. F. Morin. No. 1,019,823; Mar. 12; Sp. p. 1746; Gaz. vol. 176; p. 306.
Mail-bag deliverer. C. A. Lotridge. No. 1,037,942; Sept. 10; Gaz. vol. 182; p. 291.

Alphabetical list of inventions—Continued.

Mail-bag deliverer and receiver. D. W. Millsaps. No. 1,034,639; Aug. 6; Gaz. vol. 181; p. 78.
Mail-bag delivering and receiving apparatus. T. Reeves. No. 1,035,742; Aug. 13; Gaz. vol. 181; p. 482.
Mail-bag-delivery mechanism. B. F. Nicoll. No. 1,027,883; May 28; Sp. p. 6152; Gaz. vol. 178; p. 1057.
Mail-bag fastener. S. E. Chambers. No. 1,046,970; Dec. 10; Gaz. vol. 185; p. 446.
Mail-bag handler. W. H. Akens. No. 1,043,892; Nov. 12; Gaz. vol. 184; p. 328.
Mail-bag-handling apparatus. O. C. Luther. No. 1,043,020; Oct. 29; Gaz. vol. 183; p. 1265.
Mail-bag holder. W. P. Sargent. No. 1,019,366; Mar. 5; Sp. p. 833; Gaz. vol. 176; p. 124.
Mail-bag holder. C. E. Conkling. No. 1,044,499; Nov. 19; Gaz. vol. 184; p. 566.
Mail-bag rack. H. H. Shults. No. 1,018,637; Feb. 27; Sp. p. 5364; Gaz. vol. 175; p. 931.
Mail-bag rack for mail-cars. D. H. Borgmeyer. No. 1,035,523; Aug. 13; Gaz. vol. 181; p. 411.
Mail-bag-receiving apparatus. M. N. George. No. 1,040,307; Oct. 8; Gaz. vol. 183; p. 244.
Mail-bag station-crane. A. Hupp. No. 1,020,610; Mar. 19; Sp. p. 3416; Gaz. vol. 176; p. 604.
Mail, books, &c., Fastener for straps for. E. S. Colby and L. Tinsley. No. 1,044,024; Nov. 12; Gaz. vol. 184; p. 375.
Mail-box. J. A. Fouts. No. 1,017,862; Feb. 20; Sp. p. 3605; Gaz. vol. 175; p. 632.
Mail-box. F. J. Dagelen. No. 1,018,810; Feb. 27; Sp. p. 5737; Gaz. vol. 175; p. 990.
Mail-box. F. W. Taylor. No. 1,019,554; Mar. 5; Sp. p. 1236; Gaz. vol. 176; p. 185.
Mail-box. C. G. Overmyer and G. F. Collins. No. 1,021,792; Apr. 2; Sp. p. 75; Gaz. vol. 177; p. 16.
Mail-box. H. Chambers. No. 1,024,617; Apr. 30; Sp. p. 6208; Gaz. vol. 177; p. 1095.
Mail-box. E. V. Davis. No. 1,026,078; May 14; Sp. p. 2195; Gaz. vol. 178; p. 370.
Mail-box. R. L. Davis. No. 1,030,391; June 25; Sp. p. 5081; Gaz. vol. 179; p. 906.
Mail-box. E. L. Carpenter and C. O. Ryan. No. 1,033,874; July 30; Gaz. vol. 180; p. 1180.
Mail-box. T. H. Tumey. No. 1,038,237; Sept. 10; Gaz. vol. 182; p. 388.
Mail-box. E. V. Knight and C. E. Cassatt. No. 1,039,546; Sept. 24; Gaz. vol. 182; p. 892.
Mail-box. H. R. Cagley. No. 1,039,695; Oct. 1; Gaz. vol. 183; p. 7.
Mail-box. J. W. Henry. No. 1,041,788; Oct. 22; Gaz. vol. 183; p. 816.
Mail-box. A. J. Foster. No. 1,047,401; Dec. 17; Gaz. vol. 185; p. 627.
Mail-box. C. P. Hoskins. No. 1,048,409; Dec. 24; Gaz. vol. 185; p. 1000.
Mail-box. W. E. Davis. No. 1,049,058; Dec. 31; Gaz. vol. 185; p. 1264.
Mail-box alarm. M. W. Grindle. No. 1,037,470; Sept. 3; Gaz. vol. 182; p. 100.
Mail-box and signaling mechanism, Combination. S. S. Hopkins. No. 1,021,100; Mar. 26; Sp. p. 4437; Gaz. vol. 176; p. 821.
Mail-box attachment. E. H. Clark. No. 1,013,128; Jan. 2; Sp. p. 79; Gaz. vol. 174; p. 14.
Mail-box attachment. C. L. Wheeler. No. 1,033,502; July 23; Gaz. vol. 180; p. 1030.
Mail-box coin-holder, Rural-. G. J. Miller. No. 1,025,150; May 7; Sp. p. 82; Gaz. vol. 178; p. 15.
Mail-box, Electric-alarm. J. H. Corbett, Jr. No. 1,017,513; Feb. 13; Sp. p. 2834; Gaz. vol. 175; p. 478.
Mail-box electric alarm. J. W. Coe, Jr. No. 1,025,738; May 7; Sp. p. 1395; Gaz. vol. 178; p. 218.
Mail-box hanger. F. Bell. No. 1,046,251; Dec. 3; Gaz. vol. 185; p. 158.
Mail-box label-holder. G. P. Johnson. No. 1,044,390; Nov. 12; Gaz. vol. 184; p. 500.
Mail-box, Letter and package. C. Ohlson. No. 1,014,508; Jan. 9; Sp. p. 3114; Gaz. vol. 174; p. 517.
Mail-box, Rural. A. L. Wiltse. No. 1,045,488; Nov. 26; Gaz. vol. 184; p. 941.
Mail-box signal. W. M. Ulbrich. No. 1,015,523; Jan. 23; Sp. p. 5363; Gaz. vol. 174; p. 920.
Mail-box signal. M. F. Welch. No. 1,021,026; Mar. 26; Sp. p. 4291; Gaz. vol. 176; p. 797.
Mail-box-transmission system. J. McGee. No. 1,019,984; Mar. 12; Sp. p. 2088; Gaz. vol. 176; p. 360.
Mail-boxes, &c., Package or paper holder for. V. C. Koons. No. 1,024,266; Apr. 23; Sp. p. 5389; Gaz. vol. 177; p. 943.
Mail-carrier. M. T. Miller. No. 1,021,620; Mar. 26; Sp. p. 5559; Gaz. vol. 176; p. 998.
Mail-carrier. C. Maar. No. 1,028,894; June 11; Sp. p. 1787; Gaz. vol. 179; p. 313.
Mail-carrier, Electric. S. A. Brandt. No. 1,039,019; Sept. 17; Gaz. vol. 182; p. 692.
Mail-carrier's box. J. A. Kilpatrick. No. 1,018,325; Feb. 20; Sp. p. 4617; Gaz. vol. 175; p. 792.
Mail-carrying device. T. R. Neiswander. No. 1,034,282; July 30; Gaz. vol. 180; p. 1324.
Mail catcher and deliverer. B. Evans. No. 1,016,819; Feb. 6; Sp. p. 1304; Gaz. vol. 175; p. 200.
Mail catching and delivering apparatus, Railway. F. E. Coyne and J. W. Eskholme. No. 1,016,478; Feb. 6; Sp. p. 550; Gaz. vol. 175; p. 85.
Mail catching and delivering apparatus, Railway. F. E. Coyne, S. G. Taylor, Jr., and J. W. Eskholme. No. 1,016,479; Feb. 6; Sp. p. 554; Gaz. vol. 175; p. 85.
Mail catching and delivering device. W. T. O'Hara. No. 1,042,256; Oct. 22; Gaz. vol. 183; p. 972.
Mail-chute. A. K. Smith and E. A. Kumming. No. 1,037,348; Sept. 3; Gaz. vol. 182; p. 56.
Mail-collector. F. J. Eder. No. 1,019,029; Mar. 5; Sp. p. 28; Gaz. vol. 176; p. 8.
Mail-crane. R. L. Porter. No. 1,017,902; Feb. 20; Sp. p. 3724; Gaz. vol. 175; p. 648.
Mail-crane. G. L. Graham. No. 1,023,202; Apr. 16; Sp. p. 3134; Gaz. vol. 177; p. 561.
Mail-crane. J. M. Hough. No. 1,036,246; Aug. 20; Gaz. vol. 181; p. 696.
Mail delivering and receiving apparatus. C. A. Iffert. No. 1,022,028; Apr. 2; Sp. p. 589; Gaz. vol. 177; p. 93.
Mail delivering and receiving apparatus. W. Kraenner. No. 1,038,600; Sept. 17; Gaz. vol. 182; p. 548.
Mail-delivering apparatus. J. H. Tudor. No. 1,013,703; Jan. 2; Sp. p. 1359; Gaz. vol. 174; p. 212.
Mail-delivering apparatus. L. G. Turner. No. 1,046,039; Dec. 3; Gaz. vol. 185; p. 83.
Mail-delivery apparatus. H. O. Wilson. No. 1,022,455; Apr. 9; Sp. p. 1493; Gaz. vol. 177; p. 267.
Mail-delivery apparatus. A. J. Jones. No. 1,034,116; July 30; Gaz. vol. 180; p. 1266.
Mail-delivery device. Rural-. A. Jenson. No. 1,019,795; Mar. 12; Sp. p. 1702; Gaz. vol. 176; p. 297.
Mail-exchange system. A. Hupp. No. 1,020,609; Mar. 19; Sp. p. 3402; Gaz. vol. 176; p. 604.
Mail-exchange system. E. C. Rankin. No. 1,034,648; Aug. 6; Gaz. vol. 181; p. 81.
Mail-handling apparatus. W. L. Mainer. No. 1,028,755; June 4; Sp. p. 1484; Gaz. vol. 179; p. 230.
Mail-handling apparatus. J. D. Perkins. No. 1,048,339; Dec. 24; Gaz. vol. 185; p. 977.
Mail-handling device. L. B. Johnston. No. 1,032,483; July 16; Gaz. vol. 180; p. 648.
Mail-lift. P. J. Sheehan and T. W. McMahon. No. 1,031,383; July 2; Gaz. vol. 180; p. 187.
Mail-loader. W. Richards. No. 1,032,775; July 16; Gaz. vol. 180; p. 749
Mail-marking machine. F. C. Ielfield. No. 1,019,158; Mar. 5; Sp. p. 333; Gaz. vol. 176; p. 53.
Mail-marking machine. G. H. Graham. No. 1,022,191; Apr. 2; Sp. p. 928; Gaz. vol. 177; p. 148.
Mail-marking machine. F. C. Ielfield. No. 1,038,587; Sept. 17; Gaz. vol. 182; p. 543.
Mail-marking machine. T. G. Stoddard and G. H. Barbour. No. 1,046,037; Dec. 3; Gaz. vol. 185; p. 82.
Mail-matter-canceling machine. J. P. Cleal and J. G. Fletcher. No. 1,033,383; July 23; Gaz. vol. 180; p. 992.
Mail-matter-marking machine. V. Beauregard. No. 1,019,296; Mar. 5; Sp. p. 647; Gaz. vol. 176; p. 101.
Mail-matter pick-up table. J. T. Lynch. No. 1,035,714; Aug. 13; Gaz. vol. 181; p. 474.
Mail-matter registry-receipt. L. V. Spollin. No. 1,016,234; Jan. 30; Sp. p. 6856; Gaz. vol. 174; p. 1191.
Mail-matter-spacing mechanism. J. T. Lynch and G. E. Bolton. No. 1,035,715; Aug. 13; Gaz. vol. 181; p. 474.
Mail-matter-stacking mechanism. J. T. Lynch and G. E. Bolton. No. 1,035,716; Aug. 13; Gaz. vol. 181; p. 475.
Mail-opening machine. C. J. Bryant. No. 1,047,493; Dec. 17; Gaz. vol. 185; p. 660.
Mail-pouch lock and tag-holder. F. J. Beck. No. 1,020,395; Mar. 19; Sp. p. 2936; Gaz. vol. 176; p. 534.
Mail-pouch trap. W. R. Grey. No. 1,043,315; Nov. 5; Gaz. vol. 184; p. 97.
Mail-receiver. R. C. Lambert. No. 1,024,995; Apr. 30; Sp. p. 6992; Gaz. vol. 177; p. 1228.
Mail receiving and delivering apparatus. S. C. Hendricks and G. E. Bowles. No. 1,020,201; Mar. 12; Sp. p. 2556; Gaz. vol. 176; p. 434.
Mail receiving and delivering apparatus. J. S. Lanier. No. 1,037,497; Sept. 3; Gaz. vol. 182; p. 109.
Mail receiving and delivering apparatus. J. S. Lanier. No. 1,037,498; Sept. 3; Gaz. vol. 182; p. 110.
Mail-receiving apparatus. W. L. Mainer. No. 1,028,756; June 4; Sp. p. 1486; Gaz. vol. 179; p. 230.
Mail-receptacle. G. B. McAllister. No. 1,042,458; Oct. 29; Gaz. vol. 183; p. 1069.
Mailing-cabinet. M. P. Exline. No. 1,016,821; Feb. 6; Sp. p. 1308; Gaz. vol. 175; p. 201.
Mailing-card and frame, Combined. C. K. Reese. No. 1,038,652; Sept. 17; Gaz. vol. 182; p. 566.
Mailing card, Coin-. C. J. Warne. No. 1,029,836; June 18; Sp. p. 3842; Gaz. vol. 179; p. 674.
Mailing card, Coin-. G. A. Bachmann. No. 1,048,125; Dec. 24; Gaz. vol. 185; p. 906.
Mailing-card, Postal. J. Cameron. No. 1,031,521; July 2; Gaz. vol. 180; p. 234.
Mailing device. W. L. Williams and J. L. Olmstead. No. 1,025,039; Apr. 30; Sp. p. 7070; Gaz. vol. 177; p. 1243.
Mailing machine, Magazine-. W. P. Sargent. No. 1,024,028; Apr. 23; Sp. p. 4837; Gaz. vol. 177; p. 858.

Alphabetical list of inventions—Continued.

Mailing-tube. D. S. Cole. No. 1,028,678; June 4; Sp. p. 1319; Gaz. vol. 179; p. 203.
Mailing-tube. E. G. Hay. No. 1,032,282; July 9; Gaz. vol. 180; p. 537.
Mailing-wrapper. H. J. Wyatt. No. 1,030,633; June 25; Sp. p. 5795; Gaz. vol. 179; p. 993.
Main, Hydraulic. H. L. Doherty. No. 1,043,409; Nov. 5; Gaz. vol. 184; p. 130.
Mains, pipes, &c., Apparatus for scraping and cleaning water. R. A. Adamson. No. 1,030,634; June 25; Sp. p. 5797; Gaz. vol. 179; p. 993.
Make-and-break device. C. F. Splitdorf. No. 1,037,074; Aug. 27; Gaz. vol. 181; p. 1008.
Malt-turning implement. M. Weisenfeld. No. 1,034,545; Aug. 6; Gaz. vol. 181; p. 48.
Malted whey. J. S. Stillwell. No. 1,041,896; Oct. 22; Gaz. vol. 183; p. 854.
Malting. H. Heuser. No. 1,041,282; Oct. 15; Gaz. vol. 183; p. 612.
Mandolin. W. H. De Wick. No. 1,018,651; Feb. 27; Sp. p. 5402; Gaz. vol. 175; p. 935.
Mandrel. J. W. Swartzlander. No. 1,016,587; Feb. 6; Sp. p. 820; Gaz. vol. 175; p. 122.
Mandrel, Collapsible. H. E. Hansen. No. 1,040,536; Oct. 8; Gaz. vol. 183; p. 322.
Mandrel, Expanding. R. J. Saum. No. 1,019,920; Mar. 12; Sp. p. 1960; Gaz. vol. 176; p. 340.
Mandrel for sheet-metal working. L. C. Sharp. No. 1,025,318; May 7; Sp. p. 480; Gaz. vol. 178; p. 74.
Mandrel for tinners. B. J. Rowley. No. 1,048,348; Dec. 24; Gaz. vol. 185; p. 979.
Manger. R. M. Glor. No. 1,018,611; Feb. 27; Sp. p. 5313; Gaz. vol. 175; p. 922.
Mangers, Hay-gate for. W. A. Brown. No. 1,018,095; Feb. 20; Sp. p. 4156; Gaz. vol. 175; p. 714.
Mangle for small articles. S. Moe. No. 1,016,028; Jan. 30; Sp. p. 6455; Gaz. vol. 174; p. 1123.
Manhole and catch-basin cover. R. J. McNulty. No. 1,016,081; Jan. 30; Sp. p. 6581; Gaz. vol. 174; p. 1142.
Manhole and well for subways. M. Clarkson. No. 1,023,815; Apr. 23; Sp. p. 4347; Gaz. vol. 177; p. 786.
Manicure-kit. J. W. Smith. No. 1,040,446; Oct. 8; Gaz. vol. 183; p. 290.
Manifolding device. F. C. Nickol and M. C. Stern. No. 1,015,581; Jan. 23; Sp. p. 5500; Gaz. vol. 174; p. 941.
Manifolding device. A. Gilbert. No. 1,026,308; May 14; Sp. p. 2685; Gaz. vol. 178; p. 449.
Manifolding-pad. E. Carney. No. 1,015,294; Jan. 23; Sp. p. 4858; Gaz. vol. 174; p. 842.
Manipulating device, Safety. W. Cottrell. No. 1,046,378; Dec. 3; Gaz. vol. 185; p. 202.
Mantle-tying machine. S. Cohn. (Reissue.) No. 13,429; June 18; Sp. p. 4794; Gaz. vol. 179; p. 823.
Mantles, Protective container for. M. C. Whitaker. No. 1,030,954; July 2; Gaz. vol. 180; p. 36.
Mantles, Protective container for. M. C. Whitaker. No. 1,031,219; July 2; Gaz. vol. 180; p. 131.
Manure-carrier. A. Gilbertson. No. 1,026,157; May 14; Sp. p. 2354; Gaz. vol. 178; p. 397.
Manure-loader. C. Elsasser. No. 1,013,755; Jan. 2; Sp. p. 1471; Gaz. vol. 174; p. 232.
Manure-loader. W. Graetz. No. 1,017,094; Feb. 13; Sp. p. 1939; Gaz. vol. 175; p. 333.
Manure-loader. J. P. and J. A. Lucas. No. 1,033,814; July 30; Gaz. vol. 180; p. 1159.
Manure-loader. V. Hensley. No. 1,045,842; Dec. 3; Gaz. vol. 185; p. 16.
Manure-scatterer. E. F. Nelson. No. 1,035,724; Aug. 13; Gaz. vol. 181; p. 477.
Manure-spreader. L. A. Funk. (Reissue.) No. 13,369; Feb. 20; Sp. p. 4788; Gaz. vol. 175; p. 819.
Manure-spreader. S. K. Dennis. No. 1,018,743; Feb. 27; Sp. p. 5595; Gaz. vol. 175; p. 968.
Manure-spreader. H. E. Dinwiddie. No. 1,023,302; Apr. 16; Sp. p. 3329; Gaz. vol. 177; p. 595.
Manure-spreader. R. H. Throckmorton. No. 1,023,342; Apr. 16; Sp. p. 3408; Gaz. vol. 177; p. 608.
Manure-spreader. C. Johnson and C. Frank. No. 1,025,403; May 7; Sp. p. 657; Gaz. vol. 178; p. 103.
Manure-spreader. H. F. Snyder. No. 1,034,396; July 30; Gaz. vol. 180; p. 1364.
Manure-spreader. W. E. Alexander. No. 1,038,814; Sept. 17; Gaz. vol. 182; p. 623.
Manure-spreader. S. K. Dennis. No. 1,041,974; Oct. 22; Gaz. vol. 183; p. 879.
Manure-spreader. C. L. Dyk. No. 1,046,746; Dec. 10; Gaz. vol. 185; p. 371.
Manure-spreader. A. E. Mossberg. No. 1,046,838; Dec. 10; Gaz. vol. 185; p. 402.
Manure-spreader. L. A. Keene. No. 1,047,071; Dec. 10; Gaz. vol. 185; p. 478.
Manure-spreaders, Loading attachment for. C. E. Johnson. No. 1,022,088; Apr. 2; Sp. p. 715; Gaz. vol. 177; p. 114.
Map and odometer, Combined road-. J. W. Jones. No. 1,040,345; Oct. 8; Gaz. vol. 183; p. 256.
Map for automobiles, Automatic road-. H. L. Triplett. No. 1,039,848; Oct. 1; Gaz. vol. 183; p. 60.
Map, Guide-. R. Reid. No. 1,037,984; Sept. 10; Gaz. vol. 182; p. 305.
Map-holder. J. G. Patterson. No. 1,027,394; May 21; Sp. p. 5092; Gaz. vol. 178; p. 856.
Map-rack. R. H. Bennett. No. 1,014,861; Jan. 16; Sp. p. 3960; Gaz. vol. 174; p. 670.
Map, Road-. V. Vallet. No. 1,033,292; July 23; Gaz. vol. 180; p. 962.
Marble, Treatment of artificial. H. Gallinowsky. No. 1,022,585; Apr. 9; Sp. p. 1753; Gaz. vol. 177; p. 309.
Marcel waver. J. W. Buickerood. No. 1,042,886; Oct. 29; Gaz. vol. 183; p. 1219.
Marine boiler. E. King. No. 1,015,689; Jan. 23; Sp. p. 5746; Gaz. vol. 174; p. 978.
Marine signal. G. E. Lane. No. 1,018,506; Feb. 27; Sp. p. 5040; Gaz. vol. 175; p. 887.
Marine transfer. T. S. Miller. No. 1,015,240; Jan. 16; Sp. p. 4727; Gaz. vol. 174; p. 797.
Marker and rower. M. F. McKasty. No. 1,049,121; Dec. 31; Gaz. vol. 185; p. 1286.
Marker, Hill-. F. Ferrell. No. 1,046,754; Dec. 10; Gaz. vol. 185; p. 374.
Marker, Land-. W. H. Jones, F. K. Metcalf, and J. S. Wear. No. 1,027,609; May 28; Sp. p. 5520; Gaz. vol. 178; p. 965.
Marker, Land-. E. G. Rose. No. 1,029,635; June 18; Sp. p. 3388; Gaz. vol. 179; p. 604.
Marker, Land-. T. J. Ellison. No. 1,048,140; Dec. 24; Gaz. vol. 185; p. 911.
Marker, Row-. T. B. Woods and C. E. Williams. No. 1,025,040; Apr. 30; Sp. p. 7071; Gaz. vol. 177; p. 1243.
Marker, Siding-. J. N. Horton and E. Carlson. No. 1,026,866; May 21; Sp. p. 3900; Gaz. vol. 178; p. 673.
Marking and grooving tool. J. H. Proctor. No. 1,025,302; May 7; Sp. p. 421; Gaz. vol. 178; p. 68.
Marking clip, Clothes-. C. W. Fuller. No. 1,030,883; July 2; Gaz. vol. 180; p. 12.
Marking cloth by perforated lays or templets. J. Marsden. No. 1,047,823; Dec. 17; Gaz. vol. 185; p. 776.
Marking device for attachment to the ears of animals. F. Andrews. No. 1,026,423; May 14; Sp. p. 2943; Gaz. vol. 178; p. 487.
Marking device, Goods-. W. K. Clark. No. 1,023,505; Apr. 16; Sp. p. 3726; Gaz. vol. 177; p. 659.
Marking-gage. N. Helwig. No. 1,039,055; Sept. 17; Gaz. vol. 182; p. 702.
Marking-gage. A. H. Widen. No. 1,040,078; Oct. 1; Gaz. vol. 183; p. 136.
Marking gage or tram. J. W. Hasburg. No. 1,028,720; June 4; Sp. p. 1401; Gaz. vol. 179; p. 218.
Marking or canceling machine. W. L. Bowlus. No. 1,042,759; Oct. 29; Gaz. vol. 183; p. 1175.
Marking-pot. C. A. Garvey. No. 1,014,294; Jan. 9; Sp. p. 2672; Gaz. vol. 174; p. 446.
Marking-tool holder. G. W. Kountz. No. 1,043,322; Nov. 5; Gaz. vol. 184; p. 100.
Marline-spike. J. V. Anderson. No. 1,014,200; Jan. 9; Sp. p. 2454; Gaz. vol. 174; p. 412.
Mask, Base-ball. D. C. O'Shea. No. 1,016,029; Jan. 30; Sp. p. 6457; Gaz. vol. 174; p. 1123.
Mask, Boxing-. T. J. White. No. 1,023,285; Apr. 16; Sp. p. 3303; Gaz. vol. 177; p. 590.
Mask, Face-. L. M. Bender. No. 1,023,358; Apr. 16; Sp. p. 3433; Gaz. vol. 177; p. 613.
Mask, Inhaling-. J. W. Snyder. No. 1,040,801; Oct. 8; Gaz. vol. 183; p. 415.
Mask, Narcotizing-. K. A. (A.) E. Fries. No. 1,021,865; Apr. 2; Sp. p. 248; Gaz. vol. 177; p. 40.
Mask used in applying anesthetics. C. Ogilvy. No. 1,034,821; Aug. 6; Gaz. vol. 181; p. 142.
Masonry and reinforced-concrete structure. D. B. Luten. No. 1,048,843; Dec. 31; Gaz. vol. 185; p. 1190.
Massage apparatus. C. Endorf, Jr. No. 1,028,999; June 11; Sp. p. 2030; Gaz. vol. 179; p. 349.
Massage apparatus. F. R. Kunkel. No. 1,029,697; June 18; Sp. p. 3532; Gaz. vol. 179; p. 626.
Massage apparatus. K. Van Hook. No. 1,042,058; Oct. 22; Gaz. vol. 183; p. 907.
Massage-machine. W. G. Shockey. No. 1,013,824; Jan. 2; Sp. p. 1601; Gaz. vol. 174; p. 255.
Massaging device, Electrically-operated. W. I. Miller. No. 1,043,957; Nov. 12; Gaz. vol. 184; p. 352.
Massaging-syringe. G. Björkman. No. 1,043,899; Nov. 12; Gaz. vol. 184; p. 330.
Massaging the human body, Means for mechanically. J. A. Ward. No. 1,026,480; May 14; Sp. p. 3070; Gaz. vol. 178; p. 506.
Mast-step and foot-block, Self-locking. R. H. Blackburn. No. 1,020,793; Mar. 19; Sp. p. 3806; Gaz. vol. 176; p. 667.
Mat: *See* Bath-mat; Doily-mat; Door-mat.
Mat. W. Yates. No. 1,019,212; Mar. 5; Sp. p. 454; Gaz. vol. 176; p. 72.
Mat. E. P. White. No. 1,045,762; Nov. 26; Gaz. vol. 184; p. 1038.
Match. W. M. Burton. No. 1,019,756; Mar. 12; Sp. p. 1627; Gaz. vol. 176; p. 284.
Match. G. W. Curtiss. No. 1,035,542; Aug. 13; Gaz. vol. 181; p. 417.
Match. J. R. Nolan. No. 1,042,464; Oct. 29; Gaz. vol. 183; p. 1072.

Alphabetical list of inventions—Continued.

Match-books, Machine for making. M. Paridon and T. A. Palmer. No. 1,042,472; Oct. 29; Gaz. vol. 183; p. 1074.
Match-box. R. Muller. No. 1,014,167; Jan. 9; Sp. p. 2390; Gaz. vol. 174; p. 400.
Match-box. F. C. Jarvis. No. 1,016,412; Feb. 6; Sp. p. 395; Gaz. vol. 175; p. 62.
Match-box. W. H. Horn. No. 1,016,996; Feb. 13; Sp. p. 1707; Gaz. vol. 175; p. 298.
Match-box. F. C. Holkum. No. 1,021,602; Mar. 26; Sp. p. 5531; Gaz. vol. 176; p. 993.
Match-box. N. E. Wassill. No. 1,023,898; Apr. 23; Sp. p. 4561; Gaz. vol. 177; p. 814
Match-box. J. N. Branyan. No. 1,024,392; Apr. 23; Sp. p. 5597; Gaz. vol. 177; p. 982.
Match-box. P. P. Adolph. No. 1,026,235; May 14; Sp. p. 2532; Gaz. vol. 178; p. 424.
Match-box. R. Dingwell. No. 1,026,976; May 21; Sp. p. 4177; Gaz. vol. 178; p. 713.
Match-box. L. N. Forsyth. No. 1,028,106; June 4; Sp. p. 27; Gaz. vol. 179; p. 8.
Match-box. J. F. Murray. No. 1,029,080; June 11; Sp. p. 2185; Gaz. vol. 179; p. 376.
Match-box. L. C. Dashner. No. 1,031,625; July 2; Gaz. vol. 180; p. 269.
Match-box. F. A. Fuller. No. 1,033,240; July 23; Gaz. vol. 180; p. 944.
Match-box. G. F. Dunn. No. 1,036,198; Aug. 20; Gaz. vol. 181; p. 679.
Match-box. F. W. Gulland. No. 1,038,570; Sept. 17; Gaz. vol. 182; p. 537.
Match-box. C. B. Coombs. No. 1,039,259; Sept. 24; Gaz. vol. 182; p. 792.
Match-box. F. H. Farrar, Sr. No. 1,042,419; Oct. 29; Gaz. vol. 183; p. 1055.
Match-box. W. Ross. No. 1,043,628; Nov. 5; Gaz. vol. 184; p. 207.
Match-box. H. P. Stewart. No. 1,047,718; Dec. 17; Gaz. vol. 185; p. 740.
Match-box. L. H. Rhoades. No. 1,049,148; Dec. 31; Gaz. vol. 185; p. 1294.
Match box and igniter. H. K. Kiso. No. 1,020,357; Mar. 12; Sp. p. 2849; Gaz. vol. 176; p. 482.
Match-box-filling machine. F. Schafer. No. 1,034,308; July 30; Gaz. vol. 180; p. 1332.
Match-box holder. B. F. Klein. No. 1,037,022; Aug. 27; Gaz. vol. 181; p. 991.
Match-box holder. A. Brand. No. 1,048,285; Dec. 24; Gaz. vol. 185; p. 958.
Match-container. E. Chanal. No. 1,035,317; Aug. 13; Gaz. vol. 181; p. 339.
Match-holder. F. C. Sparks. No. 1,021,273; Mar. 26; Sp. p. 4820; Gaz. vol. 176; p. 879.
Match-machine. P. C. Forrester. No. 1,041,989; Oct. 22; Gaz. vol. 183; p. 885.
Match-machine. F. V. Cruser. No. 1,044,145; Nov. 12; Gaz. vol. 184; p 415.
Match-machine. M. San. No. 1,044,821; Nov. 19; Gaz. vol. 184; p. 680.
Match-machine. W. B. Hutchinson. No. 1,045,293; Nov. 26; Gaz. vol. 184; p. 872.
Match-machine. J. P. Wright. No. 1,048,629; Dec. 31; Gaz. vol. 185; p. 1114.
Match-machine splint-drying means. W. A. Fairburn. No. 1,044,155; Nov. 12; Gaz. vol. 184; p. 418.
Match-machine splint-drying means. H. A. Rudd. No. 1,044,343; Nov. 12; Gaz. vol. 184; p. 484.
Match-machine splint-drying mechanism. F. V. Cruser and W. Green. No. 1,044,146; Nov. 12; Gaz. vol. 184; p. 415.
Match-machine splint-positioning device. H. A. Gsell. No. 1,024,772; Apr. 30; Sp. p. 6534; Gaz. vol. 177; p. 1150.
Match-making apparatus. W. H. Parker. No. 1,036,894; Aug. 27; Gaz. vol. 181; p. 947.
Match-making machine. H. A. Gsell. No. 1,020,644; Mar. 19; Sp. p. 3488; Gaz. vol. 176; p. 616.
Match-making machine. T. Nimmo and A. G. Libby. No. 1,029,218; June 11; Sp. p. 2488; Gaz. vol. 179; p. 423.
Match-making machine. S. E. Rahe. No. 1,030,790; June 25; Sp. p. 6204; Gaz. vol. 179; p. 1049.
Match-packing machine J. R. Nolan. No. 1,016,432; Feb. 6; Sp. p. 433; Gaz. vol. 175; p. 68.
Match-packing machine. C. H. Palmer and M. Paridon. No. 1,016,436; Feb. 6; Sp. p. 445; Gaz. vol. 175; p. 70.
Match printing, cutting, and separating machine, Paper-. H. W. Whelan. No. 1,049,019; Dec. 31; Gaz. vol. 185; p. 1250.
Match-receptacle. M. Ohrt. No. 1,023,029; Apr. 9; Sp. p. 2707; Gaz. vol. 177; p. 463
Match-receptacle. J. E. Neahr. No. 1,040,236; Oct. 1; Gaz. vol. 183; p. 188.
Match-safe. M. E. Tuttle. No. 1,017,708; Feb. 20; Sp. p. 3213; Gaz. vol. 175; p. 577.
Match-safe. R. H. Tatlow, Jr. No. 1,041,370; Oct. 15; Gaz. vol. 183; p. 640.
Match-safe. H. L. Sulzbach. No. 1,041,695; Oct. 15; Gaz. vol. 183; p. 746.
Match-safe. F. Kotraba. No. 1,042,690; Oct. 29; Gaz. vol. 183; p. 1151.
Match-safe, Combination. A. C. Ford and T. Ellis. No. 1,048,402; Dec. 24; Gaz. vol. 185; p. 998.
Match-scratcher. E. M. Brown. No. 1,015,666; Jan. 23; Sp. p. 5680; Gaz. vol. 174; p. 971.
Match-scratching device for pipes. G. Jaeger. No. 1,035,014; Aug. 6; Gaz. vol. 181; p. 204.
Match-sorting machine. A. B. Todd and W. J. H. Fogelstrom. No. 1,035,272; Aug. 13; Gaz. vol. 181; p. 322.
Match-splint-parallelizing machine. J. G. Sjöström. No. 1,014,914; Jan. 16; Sp. p. 4063; Gaz. vol. 174; p. 687.
Match-splints, Treating. W. A. Fairburn, F. V. Cruser, and W. Green. No. 1,044,153; Nov. 12; Gaz. vol. 184; p. 418.
Match-splints, Treating. W. A. Fairburn, F. V. Cruser, and W. Green. No. 1,044,154; Nov. 12; Gaz. vol. 184; p. 418.
Match-splints, Treating. W. A. Fairburn, F. V. Cruser, and W. Green. No. 1,044,445; Nov. 12; Gaz. vol. 184; p. 518.
Match-unloader. W. H. Parker. No. 1,048,865; Dec. 31; Gaz. vol. 185; p. 1197.
Matches in boxes, &c., Machine for measuring off and packing. H. A. Gsell. No. 1,028,349; June 4; Sp. p. 634; Gaz. vol. 179; p. 94.
Matcher-head. J. W. Gray. No. 1,029,185; June 11; Sp. p. 2417; Gaz. vol. 179; p. 411.
Material containing and depositing device. V. D. Johnson. No. 1,039,540; Sept. 24; Gaz. vol. 182; p. 890.
Material-distributer. J. W. Gunter and J. A. Haardt. No. 1,047,796; Dec. 17; Gaz. vol. 185; p. 766.
Material-handling mechanism. C. A. Frayer. No. 1,036,481; Aug. 20; Gaz. vol. 181; p. 777
Material or composition and article made therefrom. A. R. Müller. No. 1,022,495; Apr. 9; Sp. p. 1560; Gaz. vol. 177; p. 280.
Matrix-drying press. W. S. Hadaway, Jr. No. 1,015,953; Jan. 30; Sp. p. 6291; Gaz. vol. 174; p. 1095.
Matrix-holder. P. G. Nuernberger and G. Rettig, Jr. No. 1,016,433; Feb. 6; Sp. p. 437; Gaz. vol. 175; p. 69.
Matrix-making press. R. T. Johnston. No. 1,047,533; Dec. 17; Gaz. vol. 185; p. 674.
Matrix-setting and line-casting-machine. J. Dorneth. No. 1,015,479; Jan. 23; Sp. p. 5288; Gaz. vol. 174; p. 905.
Matrix-setting and line-casting machine. J. Dorneth. No. 1,021,827; Apr. 2; Sp. p. 171; Gaz. vol. 177; p. 28.
Matrix-setting device. R. Thomas. No. 1,024,296; Apr. 23; Sp. p. 5434; Gaz. vol. 177; p. 952.
Matting. C. H. Oakley. No. 1,037,512; Sept. 3; Gaz. vol. 182; p. 115.
Mattress. F. F. Schmitt. No. 1,014,261; Jan. 9; Sp. p. 2606; Gaz. vol. 174; p. 434.
Mattress. J. L. Heffner. No. 1,029,928; June 18; Sp. p. 4068; Gaz. vol. 179; p. 707.
Mattress. O. R. Hunt. No. 1,034,800; Aug. 6; Gaz. vol. 181; p. 135.
Mattress. A. M. Minchin. No. 1,035,222; Aug. 13; Gaz. vol. 181; p. 305.
Mattress, Adjustable. A. Borés. No. 1,018,807; Feb. 27; Sp. p. 5730; Gaz. vol. 175; p. 989.
Mattress and bed spring. O. R. Hunt. No. 1,013,294; Jan. 2; Sp. p. 463; Gaz. vol. 174; p. 72.
Mattress and float, Combined. A. S. Levy. No. 1,047,820; Dec. 17; Gaz. vol. 185; p. 775.
Mattress fabric, Wire. O. H. Stuewe. No. 1,046,233; Dec. 3; Gaz. vol. 185; p. 151.
Mattress-frame attachment. O. Gasau. No. 1,035,571; Aug. 13; Gaz. vol. 181; p. 427.
Mattress-guard. G. A. Mellon. No. 1,031,656; July 2; Gaz. vol. 180; p. 280.
Mattress, Interwoven-curled-hair. F. Maussner. No. 1,035,622; Aug. 13; Gaz. vol. 181; p. 443.
Mattress, Metallic. J. V. Mestas. No. 1,019,510; Mar. 5; Sp. p. 1162; Gaz. vol. 176; p. 171.
Mattress-pad. T. C. Weltmer. No. 1,045,228; Nov. 26; Gaz. vol. 184; p. 850.
Mattress-rack. J. A. Marks. No. 1,013,413; Jan. 2; Sp. p. 713; Gaz. vol. 174; p. 113.
Mattress-rack. R. Evans. No. 1,038,865; Sept. 17; Gaz. vol. 182; p. 641.
Mattress rest or support, Adjustable. F. P. Strobot. No. 1,037,361; Sept. 3; Gaz. vol. 182; p. 61.
Mattress roll edges, Apparatus for forming. A. W. Kindel. No. 1,013,401; Jan. 2; Sp. p. 688; Gaz. vol. 174; p. 109.
Mattress, Spring-. D. Micon. No. 1,029,881; June 18; Sp. p. 3968; Gaz. vol. 179; p. 690.
Mattress, Spring-. J. T. Keyes. No. 1,047,076; Dec. 10; Gaz. vol. 185; p. 480.
Mattress-support, Folding. W. H. Jones. No. 1,038,593; Sept. 17; Gaz. vol. 182; p. 545.
Mattress-turning apparatus. M. F. Hayes. No. 1,018,825; Feb. 27; Sp. p. 5770; Gaz. vol. 175; p. 996.
Mattresses and the like, Filling-spring for. A. C. Thompson. No. 1,025,489; May 7; Sp. p. 862; Gaz. vol. 178; p. 133.
Mattresses, Filling. B. D. Courts. No. 1,021,971; Apr. 2; Sp. p. 477; Gaz. vol. 177; p. 76.
Mattresses. Side guard for spring-. J. T. Keyes. No. 1,045,563; Nov. 26; Gaz. vol. 184; p. 968.
Mausoleum. T. H. Rowland. No. 1,014,096; Jan. 9; Sp. p. 2248; Gaz. vol. 174; p. 376.
Mausoleum. G. C. Hunter. No. 1,034,455; Aug. 6; Gaz. vol. 181; p. 18.

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Mausoleum. W. L. Lawrence. No. 1,041,637; Oct. 15; Gaz. vol. 183; p. 726.
Mausoleum. P. W. Sievert. No. 1,048,360; Dec. 24; Gaz. vol. 185; p. 983.
Mausoleum construction. V., Jr., and C. F. Dietz. No. 1,020,747; Mar. 19; Sp. p. 3720; Gaz. vol. 176; p. 652.
Mausoleum interment-crypt. E. N. Hatcher. No. 1,028,111; June 4; Sp. p. 37; Gaz. vol. 179; p. 10.
Maximum-indicating and watt-hour meter. C. I. Hall. No. 1,028,715; June 4; Sp. p. 1391; Gaz. vol. 179; p. 216.
Measure. C. Messner. No. 1,022,749; Apr. 9; Sp. p. 2146; Gaz. vol. 177; p. 368.
Measure, Adjustable. G. Loyd. No. 1,039,153; Sept. 24; Gaz. vol. 182; p. 752.
Measure, Computing-. D. H. Layne. No. 1,013,883; Jan. 9; Sp. p. 1773; Gaz. vol. 174; p. 304.
Measure, Device for indicating liquid. C. L. Phillis. No. 1,038,951; Sept. 17; Gaz. vol. 182; p. 670.
Measure for ropes, &c., Linear. N. D. M. Yorke. No. 1,022,916; Apr. 9; Sp. p. 2485; Gaz. vol. 177; p. 423.
Measure or gage. L. Farkas. No. 1,035,175; Aug. 13; Gaz. vol. 181; p. 290.
Measure, Self-registering. A. Woodward. No. 1,020,171; Mar. 12; Sp. p. 2484; Gaz. vol. 176; p. 423.
Measure, Shoe-. J. M. Bromley. No. 1,017,201; Feb. 13; Sp. p. 2163; Gaz. vol. 175; p. 369.
Measure, Shoemaker's. T. A. Bresnahan. No. 1,033,301; July 23; Gaz. vol. 180; p. 966.
Measure, Tailor's. A. N. Walquist. No. 1,014,542; Jan. 9; Sp. p. 3172; Gaz. vol. 174; p. 528.
Measurer, Rope-. A. M. Wiswell. No. 1,039,468; Sept. 24; Gaz. vol. 182; p. 864.
Measurer, Skirt-. E. M. Farr. No. 1,041,611; Oct. 15; Gaz. vol. 183; p. 716.
Measuring and bag-filling device A. B. Crosby. No. 1,032,190; July 9; Gaz. vol. 180; 504.
Measuring and bottling liquids, Apparatus for. J. A. Larsen. No. 1,031,187; July 2; Gaz. vol. 180; p. 120.
Measuring and calculating machine. E. A. Luster. No. 1,016,078; Jan. 30; Sp. p. 6573; Gaz. vol. 174; p. 1141.
Measuring and can-filling machine. J. F. Craven. No. 1,036,965; Aug. 27; Gaz. vol. 181; p. 971.
Measuring and delivery device, Liquid. G. S. Hanford. No. 1,046,781; Dec. 10; Gaz. vol. 185; p. 383.
Measuring and dispensing device. E. P. Smith. No. 1,014,343; Jan. 9; Sp. p. 2802; Gaz. vol. 174; p. 463.
Measuring and feeding materials, Apparatus for. F. B. Gilbreth. No. 1,014,645; Jan. 16; Sp. p. 3465; Gaz. vol. 174; p. 595.
Measuring and gaining machine, Adjustable and reversible. G. Drenner. No. 1,035,328; Aug. 13; Gaz. vol. 181; p. 343.
Measuring and invoicing machine. J. F. McAdams. No. 1,045,420; Nov. 26; Gaz. vol. 184; p. 916.
Measuring and price-computing machine, Cloth-. W. F. Goessling, H. E. Pauk, C. M. Kachel, and O. A. Heckel. No. 1,032,538; July 16; Gaz. vol. 180; p. 667.
Measuring and stopping device, Automatic. J. R. T. Wilson. No. 1,033,855; July 30; Gaz. vol. 180; p. 1173.
Measuring apparatus. E. Nuebling. No. 1,035,225; Aug. 13; Gaz. vol. 181; p. 306.
Measuring apparatus, Dressmaker's. A. Rogati and L. Montilli. No. 1,045,440; Nov. 26; Gaz. vol. 184; p. 923.
Measuring apparatus for liquids. G. T. Sundelin. No. 1,016,377; Feb. 6; Sp. p. 306; Gaz. vol. 175; p. 48.
Measuring apparatus, Liquid-. A. M. Gow. No. 1,035,342; Aug. 13; Gaz. vol. 181; p. 348.
Measuring apparatus, Liquid-. K. W. Bartlett. No. 1,037,413; Sept. 3; Gaz. vol. 182; p. 79.
Measuring apparatus, Liquid-. A. Bowser. No. 1,047,492; Dec. 17; Gaz. vol. 185; p. 659.
Measuring apparatus, Liquid-. G. H. Gibson. No. 1,048,677; Dec. 31; Gaz. vol. 185; p. 1133.
Measuring apparatus, Permeability-. R. Leumann. No. 1,016,753; Feb. 6; Sp. p. 1157; Gaz. vol. 175; p. 179.
Measuring apparatus, Rock-. R. P. M. Davis. No. 1,038,305; Sept. 10; Gaz. vol. 182; p. 412.
Measuring apparatus, Tailor's. F. M. Schmidt. No. 1,037,058; Aug. 27; Gaz. vol. 181; p. 1003.
Measuring apparatus, Tip-. D. E. Galloway. No. 1,024,504; Apr. 30; Sp. p. 5921; Gaz. vol. 177; p. 1057.
Measuring-appliance clip. P. Cane. No. 1,033,061; July 16; Gaz. vol. 180; p. 844.
Measuring bodies, Instrument for. H. Winter. No. 1,023,542; Apr. 16; Sp. p. 3799; Gaz. vol. 177; p. 671.
Measuring circular bodies, Device for. E. Brawley. No. 1,020,020; Mar. 12; Sp. p. 2160; Gaz. vol. 176; p. 372.
Measuring device. M. Tamburini. No. 1,021,956; Apr. 2; Sp. p. 442; Gaz. vol. 177; p. 71.
Measuring device. B. K. Shrader and J. R. Gilman. No. 1,022,005; Apr. 2; Sp. p. 549; Gaz. vol. 177; p. 86.
Measuring device. J. F. Andres. No. 1,026,294; May 14; Sp. p. 2650; Gaz. vol. 178; p. 444.
Measuring device. C. P. Heide. No. 1,027,418; May 28; Sp. p. 5142; Gaz. vol. 178; p. 902.
Measuring device. M. Clark. No. 1,034,424; Aug. 6; Gaz. vol. 181; p. 9.
Measuring device. E. F. Sörensen. No. 1,040,044; Oct. 1; Gaz. vol. 183; p. 125.
Measuring device. J. S. King. No. 1,049,108; Dec. 31; Gaz. vol. 185; p. 1281.
Measuring device, Alternating-current-. B. Gâti. No. 1,039,925; Oct. 1; Gaz. vol. 183; p. 84.
Measuring device, Automatic. C. A. Woods. No. 1,018,598; Feb. 27; Sp. p. 5291; Gaz. vol. 175; p. 918.
Measuring device, Fluid-. R. J. Goodnow. No. 1,019,453; Mar. 5; Sp. p. 1030; Gaz. vol. 176; p. 152.
Measuring device, Fluid-. C. A. Hartung. No. 1,027,250; May 21; Sp. p. 4787; Gaz. vol. 178; p. 806.
Measuring device for powder-boxes. B. M. Robinson. No. 1,019,702; Mar. 5; Sp. p. 1507; Gaz. vol. 176; p. 233.
Measuring device, Liquid-. A. D. Mosby. No. 1,024,415; Apr. 23; Sp. p. 5683; Gaz. vol. 177; p. 990.
Measuring device, Rope-. W. O. Sommerfield and D. W. Morris. No. 1,038,797; Sept. 17; Gaz. vol. 182; p. 618.
Measuring device, Seeding-machine. W. W. Swan. No. 1,044,103; Nov. 12; Gaz. vol. 184; p. 402.
Measuring device, Tailor's. W. Wendorf. No. 1,042,063; Oct. 22; Gaz. vol. 183; p. 908.
Measuring draft-animals for collars, Device for. D. S. Brown. No. 1,031,519; July 2; Gaz. vol. 180; p. 233.
Measuring electrical currents, Meter for. A. Loewenberg. No. 1,020,565; Mar. 19; Sp. p. 3310; Gaz. vol. 176; p. 591.
Measuring gage, Skirt-length-. S. T. Walton. No. 1,030,951; July 2; Gaz. vol. 180; p. 34.
Measuring gaseous fluids, Recording apparatus for. C. F. Simon. No. 1,028,145; June 4; Sp. p. 146; Gaz. vol. 179; p. 22.
Measuring granular material, Device for. O. D. Havard. No. 1,040,537; Oct. 8; Gaz. vol. 183; p. 323.
Measuring instrument. P. N. Killinger. No. 1,014,232; Jan. 9; Sp. p. 2543; Gaz. vol. 174; p. 425.
Measuring-instrument attachment, Curve-. H. P. Caswell. No. 1,032,739; July 16; Gaz. vol. 180; p. 738.
Measuring instrument, Electric. H. W. Brown. No. 1,013,123; Jan. 2; Sp. p. 64; Gaz. vol. 174; p. 13.
Measuring instrument, Electric. C. H. Thordarson. No. 1,016,303; Feb. 6; Sp. p. 145; Gaz. vol. 175; p. 23.
Measuring instrument, Electric. H. C. Specht. No. 1,046,883; Dec. 10; Gaz. vol. 185; p. 417.
Measuring instrument, Electric-current-. O. A. Knopp. No. 1,015,192; Jan. 16; Sp. p. 4634; Gaz. vol. 174; p. 781.
Measuring instrument, Electrical. E. Thomson. No. 1,022,517; Apr. 9; Sp. p. 1602; Gaz. vol. 177; p. 287.
Measuring instrument, Electrical. C. McClair. No. 1,022,795; Apr. 9; Sp. p. 2235; Gaz. vol. 177; p. 383.
Measuring instrument, Electrical. A. L. Ellis. No. 1,023,304; Apr. 16; Sp. p. 3332; Gaz. vol. 177; p. 595.
Measuring instrument, Electrical. W. E. Beede. No. 1,027,684; May 28; Sp. p. 5681; Gaz. vol. 178; p. 990.
Measuring instrument, Electrical. W. E. Beede. No. 1,029,042; June 11; Sp. p. 2120; Gaz. vol. 179; p. 365.
Measuring instrument, Electrical. H. I. Shire. No. 1,032,786; July 16; Gaz. vol. 180; p. 753.
Measuring instrument, Electrical. J. L. Zander. No. 1,034,945; Aug. 6; Gaz. vol. 181; p. 182.
Measuring instrument, Lens-. C. L. Merry. No. 1,043,954; Nov. 12; Gaz. vol. 184; p. 351.
Measuring instrument of the coincident-image type, Distance-. E. Bernick. No. 1,038,831; Sept. 17; Gaz. vol. 182; p. 630.
Measuring instrument, Recording. F. Conrad and P. MacGahan. No. 1,031,041; July 2; Gaz. vol. 180; p. 67.
Measuring instrument, Recording. F. Conrad and P. MacGahan. No. 1,031,042; July 2; Gaz. vol. 180; p. 68.
Measuring instrument, Weight-. E. S. Church. No. 1,013,641; Jan. 2; Sp. p. 1196; Gaz. vol. 174; p. 191.
Measuring interpupilary distance, Device for. C. M. Stevenson. No. 1,014,917; Jan. 16; Sp. p. 4075; Gaz. vol. 174; p. 688.
Measuring-machine. G. L. Williams. No. 1,028,313; June 4; Sp. p. 542; Gaz. vol. 179; p. 79.
Measuring-machine. G. C. Brownless. No. 1,032,736; July 16; Gaz. vol. 180; p. 737.
Measuring-machine. F. Hayden and S. J. Bell. No. 1,044,384; Nov. 12; Gaz. vol. 184; p. 497.
Measuring machine, Cloth-. O. S. Blakeslee. No. 1,024,764; Apr. 30; Sp. p. 6518; Gaz. vol. 177; p. 1148.
Measuring-machine for rolled material. G. H. King. No. 1,040,351; Oct. 8; Gaz. vol. 183; p. 258.
Measuring machine, Wire-. J. H. Worthington. No. 1,043,494; Nov. 5; Gaz. vol. 184; p. 161.
Measuring or regulating device, Fluid-flow. T. Kieser. No. 1,025,809; May 7; Sp. p. 1534; Gaz. vol. 178; p. 242.
Measuring surface areas, Machine for. W. T. Hollis. No. 1,016,012; Jan. 30; Sp. p. 6419; Gaz. vol. 174; p. 1117.
Measuring tank, Liquid-. J. Riepp. No. 1,015,636; Jan. 23; Sp. p. 5620; Gaz. vol. 174; p. 961.
Measuring-tape. J. W. Melville. No. 1,023,863; Apr. 23; Sp. p. 4475; Gaz. vol. 177; p. 802.
Measuring-tape-holding device. C. W. Kerr. No. 1,013,400; Jan. 2; Sp. p. 686; Gaz. vol. 174; p. 109.
Measuring the capacity of electrical conductors, System for. O. M. Leich and C. E. Hague. No. 1,035,204; Aug. 13; Gaz. vol. 181; p. 298.

Alphabetical list of inventions—Continued.

Measuring the evaporation of liquids, Apparatus for. N. H. Freeman. No. 1,014,139; Jan. 9; Sp. p. 2337; Gaz. vol. 174; p. 391.
Measuring the flow of water, Device for. J. A. Hiller. No. 1,041,470; Oct. 15; Gaz. vol. 183; p. 672.
Measuring the superficial area of leather and like material, Machine for. G. A. Schettler. No. 1,046,655; Dec. 10; Gaz. vol. 185; p. 337.
Measuring the twist of shafts, Apparatus for. H. R. Gary. No. 1,046,768; Dec. 10; Gaz. vol. 185; p. 379.
Measuring the velocity and direction of the marine undercurrents, Apparatus for. G. Boccardo. No. 1,022,385; Apr. 2; Sp. p. 1312; Gaz. vol. 177; p. 213.
Measuring the viscosity of liquids, Apparatus for. A. Baldus. No. 1,021,229; Mar. 26; Sp. p. 4729; Gaz. vol. 176; p. 864.
Measuring time intervals, Device for. W. H. Pratt. No. 1,022,593; Apr. 9; Sp. p. 1774; Gaz. vol. 177; p. 312.
Measuring vessel. W. Newton. No. 1,037,794; Sept. 3; Gaz. vol. 182; p. 206.
Measuring volume of flowing water, &c., Apparatus for. T. B. Wylie. No. 1,025,227; May 7; Sp. p. 260; Gaz. vol. 178; p. 43.
Meat and sausage cutter. J. Masson. No. 1,036,870; Aug. 27; Gaz. vol. 181; p. 940.
Meat, Apparatus for automatically basting fried or roast. H. Siegrist. No. 1,038,217; Sept. 10; Gaz. vol. 182; p. 380.
Meat-boiler. M. E. Hill. No. 1,027,251; May 21; Sp. p. 4789; Gaz. vol. 178; p. 807.
Meat-chopper. W. W. Mitchell. No. 1,021,000; Mar. 26; Sp. p. 4243; Gaz. vol. 176; p. 788.
Meat-chopper. T. H. Walker. No. 1,047,346; Dec. 17; Gaz. vol. 185; p. 610.
Meat chopper and tenderer. W. M. Stanton. No. 1,024,811; Apr. 30; Sp. p. 6617; Gaz. vol. 177; p. 1164.
Meat chopper and tenderer. W. M. Stanton. No. 1,025,654; May 7; Sp. p. 1226; Gaz. vol. 178; p. 189.
Meat-chopping machine. A. Nielsen. No. 1,029,141; June 11; Sp. p. 2330; Gaz. vol. 179; p. 397.
Meat-clamping device. G. T. Francisco. No. 1,038,336; Sept. 10; Gaz. vol. 182; p. 421.
Meat, Curing. C. B. Trescott. No. 1,016,656; Feb. 6; Sp. p. 966; Gaz. vol. 175; p. 146.
Meat, Curing. E. Rawson. No. 1,033,269; July 23; Gaz. vol. 180; p. 955.
Meat-curing apparatus. J. C. Lincoln. No. 1,037,941; Sept. 10; Gaz. vol. 182; p. 291.
Meat-cutter. W. Walker and T. E. Hollings. No. 1,015,859; Jan. 30; Sp. p. 6091; Gaz. vol. 174; p. 1062.
Meat-cutter. C. W. Hottmann. No. 1,017,213; Feb. 13; Sp. p. 2195; Gaz. vol. 175; p. 374.
Meat cutting and mincing machine knife. A. Schaarschmidt. No. 1,015,403; Jan. 23; Sp. p. 5103; Gaz. vol. 174; p. 880.
Meat cutting or mincing machines, Feed device for. O. Wefing. No. 1,032,258; July 9; Gaz. vol. 180; p. 528.
Meat-holder. H. Thomas. No. 1,026,721; May 21; Sp. p. 3583; Gaz. vol. 178; p. 624.
Meat-holder. E. A. Hand. No. 1,048,829; Dec. 31; Gaz. vol. 185; p. 1185.
Meat-holding device. F. Briggs. No. 1,044,438; Nov. 12; Gaz. vol. 184; p. 515.
Meat, Smoked. A. Roth. No. 1,025,925; May 7; Sp. p. 1823; Gaz. vol. 178; p. 281.
Meat-stacker. E. M. Stiles. No. 1,043,878; Nov. 12; Gaz. vol. 184; p. 323.
Meat stamping or marking device. W. T. Conway. No. 1,021,715; Mar. 26; Sp. p. 5729; Gaz. vol. 176; p. 1029.
Meat-tenderer. C. E. Brown. No. 1,048,288; Dec. 24; Gaz. vol. 185; p. 959.
Mechanical junctures, Making homogeneous. A. B. Herrick. No. 1,041,281; Oct. 15; Gaz. vol. 183; p. 611.
Mechanical lubricator. J. Thomas. No. 1,048,914; Dec. 31; Gaz. vol. 185; p. 1213.
Mechanical motor. G. W. Bunting. No. 1,030,566; June 25; Sp. p. 5544; Gaz. vol. 179; p. 967.
Mechanical movement. M. Christmann. No. 1,013,276; Jan. 2; Sp. p. 406; Gaz. vol. 174; p. 66.
Mechanical movement. W. H. Voss. No. 1,013,629; Jan. 2; Sp. p. 1171; Gaz. vol. 174; p. 186.
Mechanical movement. E. R. Seward. No. 1,014,184; Jan. 9; Sp. p. 2421; Gaz. vol. 174; p. 406.
Mechanical movement. T. A. C. Both. No. 1,015,869; Jan. 30; Sp. p. 6107; Gaz. vol. 174; p. 1065.
Mechanical movement. C. C. Bultman. No. 1,016,545; Feb. 6; Sp. p. 734; Gaz. vol. 175; p. 108.
Mechanical movement. P. Habeck. No. 1,016,743; Feb. 6; Sp. p. 1143; Gaz. vol. 175; p. 176.
Mechanical movement. W. I. Twombly. No. 1,016,978; Feb. 13; Sp. p. 1661; Gaz. vol. 175; p. 292.
Mechanical movement. A. Schustek. No. 1,018,991; Feb. 27; Sp. p. 6124; Gaz. vol. 175; p. 1052.
Mechanical movement. C. J. Robertson. No. 1,019,188; Mar. 5; Sp. p. 401; Gaz. vol. 176; p. 64.
Mechanical movement. G. W. Campbell. No. 1,020,261; Mar. 12; Sp. p. 2665; Gaz. vol. 176; p. 452.
Mechanical movement. J. W. Darley, Jr. No. 1,020,267; Mar. 12; Sp. p. 2676; Gaz. vol. 176; p. 455.
Mechanical movement. E. A. Dewald and A. Rosenson. No. 1,020,968; Mar. 26; Sp. p. 4181; Gaz. vol. 176; p. 777.
Mechanical movement. R. G. Clyne. No. 1,022,621; Apr. 9; Sp. p. 1835; Gaz. vol. 177; p. 321.
Mechanical movement. C. M. Grey. No. 1,022,670; Apr. 9; Sp. p. 1940; Gaz. vol. 177; p. 338.
Mechanical movement. L. Judelson. No. 1,026,514; May 14; Sp. p. 3143; Gaz. vol. 178; p. 518.
Mechanical movement. R. A. Norling. No. 1,027,214; May 21; Sp. p. 4720; Gaz. vol. 178; p. 793.
Mechanical movement. C. F. Knowlton and F. F. Elliot. No. 1,028,886; June 11; Sp. p. 1773; Gaz. vol. 179; p. 310.
Mechanical movement. T. Opsahl. No. 1,029,764; June 18; Sp. p. 3681; Gaz. vol. 179; p. 649.
Mechanical movement. J. C. Ramsay. No. 1,029,766; June 18; Sp. p. 3683; Gaz. vol. 179; p. 649.
Mechanical movement. C. E. Wright. No. 1,031,764; July 9; Gaz. vol. 180; p. 361.
Mechanical movement. A. Schustek. No. 1,033,477; July 23; Gaz. vol. 180; p. 1022.
Mechanical movement. W. A. Barker. No. 1,033,776; July 30; Gaz. vol. 180; p. 1145.
Mechanical movement. C. J. Robertson. No. 1,033,941; July 30; Gaz. vol. 180; p. 1204.
Mechanical movement. W. L. Kissel. No. 1,035,604; Aug. 13; Gaz. vol. 181; p. 437.
Mechanical movement. R. L. Wilcox. No. 1,036,047; Aug. 20; Gaz. vol. 181; p. 624.
Mechanical movement. P. Catucci. No. 1,037,436; Sept. 3; Gaz. vol. 182; p. 88.
Mechanical movement. J. Hays. No. 1,039,390; Sept. 24; Gaz. vol. 182; p. 837.
Mechanical movement. L. Fuchs. No. 1,041,265; Oct. 15; Gaz. vol. 183; p. 604.
Mechanical movement. H. Y. Armstrong. No. 1,045,102; Nov. 19; Gaz. vol. 184; p. 777.
Mechanical movement. A. C. Tuttle. No. 1,045,461; Nov. 26; Gaz. vol. 184; p. 931.
Mechanical movement. P. Diehl. No. 1,047,003; Dec. 10; Gaz. vol. 185; p. 455.
Mechanical movement. M. H. Agehan. No. 1,049,032; Dec. 31; Gaz. vol. 185; p. 1255.
Mechanical movement. R. S. Brown. No. 1,049,289; Dec. 31; Gaz. vol. 185; p. 1342.
Mechanical movement and electric-light socket. T. A. C. Both. No. 1,014,443; Jan. 9; Sp. p. 2998; Gaz. vol. 174; p. 497.
Mechanical movement and electric-light socket. T. A. C. Both. No. 1,029,044; June 11; Sp. p. 2124; Gaz. vol. 179; p. 365.
Mechanical movement and electric-light socket. T. A. C. Both. No. 1,040,132; Oct. 1; Gaz. vol. 183; p. 154.
Mechanical movement and electric-light socket. T. A. C. Both. No. 1,046,410; Dec. 3; Gaz. vol. 185; p. 214.
Mechanical movement and electric-light socket. T. A. C. Both. No. 1,046,411; Dec. 3; Gaz. vol. 185; p. 215.
Mechanic's furnace. P. R. Flamm. No. 1,036,086; Aug. 20; Gaz. vol. 181; p. 639.
Mechanism actuated by a hot bearing. J. McWilliams and M. E. Cleeland. No. 1,018,253; Feb. 20; Sp. p. 4481; Gaz. vol. 175; p. 769.
Medicated air compound. J. Connery. No. 1,035,536; Aug. 13; Gaz. vol. 181; p. 415.
Medicinal and pharmaceutical preparation. B. L. Maltbie. No. 1,047,961; Dec. 24; Gaz. vol. 185; p. 851.
Medicinal bath. A. Hempel. No. 1,022,627; Apr. 9; Sp. p. 1845; Gaz. vol. 177; p. 323.
Medicinal needle. G. G. Ford. No. 1,020,753; Mar. 19; Sp. p. 3727; Gaz. vol. 176; p. 654.
Medicinal tablet. A. Horowitz. No. 1,021,674; Mar. 26; Sp. p. 5646; Gaz. vol. 176; p. 1016.
Medicine-dropper. J. D. Wise. No. 1,026,541; May 14; Sp. p. 3182; Gaz. vol. 178; p. 526.
Medicine-ejector. J. J. Harrison and A. B. Chatfield, Jr. No. 1,019,465; Mar. 5; Sp. p. 1058; Gaz. vol. 176; p. 155.
Medicine to live stock, Apparatus for administering. W. A. Holliday. No. 1,014,474; Jan. 9; Sp. p. 3053; Gaz. vol. 174; p. 506.
Megaphone. C. Schanandoah. No. 1,040,775; Oct. 8; Gaz. vol. 183; p. 407.
Megaphone, Knockdown. F. L. Rose. No. 1,044,917; Nov. 19; Gaz. vol. 184; p. 713.
Melting and soldering apparatus, Electrical. W. M. Bowles and C. O. Allen. No. 1,049,043; Dec. 31; Gaz. vol. 185; p. 1259.
Melting-furnace. W. W. Case. No. 1,013,838; Jan. 2; Sp. p. 1628; Gaz. vol. 174; p. 260.
Melting-furnace. W. J. Holzapfel. No. 1,037,768; Sept. 3; Gaz. vol. 182; p. 197.
Melting-furnace. E. S. Davis. No. 1,045,528; Nov. 26; Gaz. vol. 184; p. 957.
Memograph or reminder-clock. G. Schneider, C. W. Rutenbeck, and H. Hill. No. 1,019,193; Mar. 5; Sp. p. 414; Gaz. vol. 176; p. 65.
Memorandum-pad holder. J. Costello. No. 1,027,991; May 28; Sp. p. 6366; Gaz. vol. 178; p. 1093.

Memorandum-pad support and lighting device, Combined. O. Knoerzer and J. W. Weis. No. 1,030,825; June 25; Sp. p. 6363; Gaz. vol. 179; p. 1062.
Memorandum-sheet, Dictation. N. C. Durand. No. 1,033,999; July 30; Gaz. vol. 180; p. 1225.
Menu-card holder. W. H. Sawyer. No. 1,014,908; Jan. 16; Sp. p. 4056; Gaz. vol. 174; p. 685.
Merchandise-carrier. W. B. Miller. No. 1,022,104; Apr. 2; Sp. p. 740; Gaz. vol. 177; p. 118.
Mercury compound, Organic. H. Schott. No. 1,016,784; Feb. 6; Sp. p. 1233; Gaz. vol. 175; p. 190.
Mercury-converter. R. B. Ingram. No. 1,015,958; Jan. 30; Sp. p. 6302; Gaz. vol. 174; p. 1096.
Mercury cut-out switch, Centrifugal. F. E. Fisher. No. 1,036,596; Aug. 27; Gaz. vol. 181; p. 849.
Mercury-meter, Three-wire. R. C. Lanphier. No. 1,021,106; Mar. 26; Sp. p. 4447; Gaz. vol. 176; p. 823.
Mercury motor-meter. J. H. Hodde. No. 1,033,893; July 30; Gaz. vol. 180; p. 1188.
Mercury to circulate while electrolyzing aqueous solutions of metallic salts, Means for causing. R. Carl. No. 1,025,509; May 7; Sp. p. 896; Gaz. vol. 178; p. 140.
Merry-go-round. J. Ney. No. 1,014,249; Jan. 9; Sp. p. 2585; Gaz. vol. 174; p. 431.
Mesh fabric. T. Allsopp. No. 1,024,050; Apr. 23; Sp. p 4890; Gaz. vol. 177; p. 866.
Mesh heater. A. A. Low. No. 1,039,769; Oct. 1; Gaz. vol. 183; p. 34.
Mesothorium crystals, Making. F. Soddy. No. 1,031,593; July 2; Gaz. vol. 180; p. 258.
Meta- and para-cresols, Separating. F. Elger. No. 1,025,615; May 7; Sp. p. 1148; Gaz. vol. 178; p. 176.
Meta-cresol and making the same. F. Elger. No. 1,025,616; May 7; Sp. p. 1151; Gaz. vol. 178; p. 176.
Metacresol with organic acids, Derivatives of. N. Sulzberger. No. 1,033,841; July 30; Gaz. vol. 180; p. 1169.
Metal and precious metals, Machine for polishing. R. Matthes and R. Schirmer. No. 1,045,578; Nov. 26; Gaz. vol. 184; p. 973.
Metal, Apparatus for manufacturing expanded. H. Salmon. No. 1,043,540; Nov. 5; Gaz. vol. 184; p. 177.
Metal, Apparatus for manufacturing expanded. H. Salmon. No. 1,043,541; Nov. 5; Gaz. vol. 184; p. 178.
Metal articles and parts, Smoothing and polishing. W. R. Parsons. No. 1,017,268; Feb. 13; Sp. p. 2309; Gaz. vol. 175; p. 393.
Metal articles, Apparatus for cleaning. J. D. Phillips and C. Hambuechen. No. 1,035,633; Aug. 13; Gaz. vol. 181; p. 447.
Metal articles, Apparatus for pressing plate-. A. Stucki. No. 1,033,209; July 23; Gaz. vol. 180; p. 933.
Metal articles, Apparatus for shaping. H. Rahn. No. 1,023,962; Apr. 23; Sp. p. 4708; Gaz. vol. 177; p. 832.
Metal articles, Apparatus for tempering. E. H. and J. H. Steedman. No. 1,027,010; May 21; Sp. p. 4252; Gaz. vol. 178; p. 725.
Metal articles, Shaping hollow. J. F. Lewis. No. 1,016,507; Feb. 6; Sp. p. 622; Gaz. vol. 175; p. 95.
Metal articles, Treating. J. C. Russell. No. 1,019,191; Mar. 5; Sp. p. 409; Gaz. vol. 176; p. 65.
Metal-atomizing apparatus. J. M. Neil. No. 1,049,314; Dec. 31; Gaz. vol. 185; p. 1351.
Metal-ball making, Holder for. F. Deemer. No. 1,014,746; Jan. 16; Sp. p. 3685; Gaz. vol. 174; p. 629.
Metal-bar-handling apparatus. F. H. Daniels and A. F. Backlin. No. 1,021,582; Mar. 26; Sp. p. 5490; Gaz. vol. 176; p. 986.
Metal-bar-straightening apparatus. I. L. Hughes. No. 1,045,031; Nov. 19; Gaz. vol. 184; p. 753.
Metal-bar-straightening machine. L. H. Brightman. No. 1,015,473; Jan. 23; Sp. p. 5274; Gaz. vol. 174; p. 903.
Metal-bender. V. J. Mayo. No. 1,031,136; July 2; Gaz. vol. 180; p. 102.
Metal-bending device. R. Fisher. No. 1,033,309; July 23; Gaz. vol. 180; p. 968.
Metal-bending machine. E. L. Soulé. No. 1,018,086; Feb. 20; Sp. p. 4124; Gaz. vol. 175; p. 711.
Metal-bending machine. H. C. Sprengle. No. 1,043,877; Nov. 12; Gaz. vol. 184; p. 323.
Metal-bending press. C. L. Huston. No. 1,021,526; Mar. 26; Sp. p. 5383; Gaz. vol. 176; p. 969.
Metal blanks, Machine for circling. G. R. Lawrence. No. 1,038,606; Sept. 17; Gaz. vol. 182; p. 550.
Metal bodies, Tapering. C. F. Jenkins. No. 1,017,671; Feb. 20; Sp. p. 3143; Gaz. vol. 175; p. 566.
Metal body and making same, Compound. B. E. Eldred. No. 1,043,578; Nov. 5; Gaz. vol. 184; p. 191.
Metal boxes, Manufacturing. W. H. Brakenridge. No. 1,026,340; May 14; Sp. p. 2760; Gaz. vol. 178; p. 461.
Metal casements, Manufacture of. F. H. Crittall. No. 1,025,688; May 7; Sp. p. 1290; Gaz. vol. 178; p. 200.
Metal-coating apparatus. W. Gibson, Sr. No. 1,037,235; Sept. 3; Gaz. vol. 182; p. 20.
Metal, Composite. L. B. Tebbetts, 2d. No. 1,029,152; June 11; Sp. p. 2352; Gaz. vol. 179; p. 401.
Metal compound, Plastic-. C. L. Alexander. No. 1,040,838; Oct. 8; Gaz. vol. 183; p. 427.
Metal container. W. J. Werner. No. 1,027,021; May 21; Sp. p. 4281; Gaz. vol. 178; p. 729.
Metal conveyer, Molten-. P. Szathmáry. No. 1,018,217; Feb. 20; Sp. p. 4399; Gaz. vol. 175; p. 756.
Metal cutting and coping machine. J. Hoffmann, Jr., and A. W. Happel. No. 1,044,177; Nov. 12; Gaz. vol. 184; p. 426.
Metal-cutting-off device. G. Gorton. No. 1,043,093; Nov. 5; Gaz. vol. 184; p. 15.
Metal-cutting-off device, &c. G. Gorton and C. R. Carpenter. (Reissue.) No. 13,458; Aug. 20; Gaz. vol. 181; p. 795.
Metal-cutting-off device and the like. G. Gorton and C. R. Carpenter. No. 1,028,846; June 4; Sp. p. 1670; Gaz. vol. 179; p. 261.
Metal-cutting-off device, Rotary. G. Gorton. No. 1,028,710; June 4; Sp. p. 1377; Gaz. vol. 179; p. 214.
Metal-cutting-off device, Rotary. G. Gorton. No. 1,033,003; July 16; Gaz. vol. 180; p. 823.
Metal-cutting shears. V. E. Edwards. No. 1,031,056; July 2; Gaz. vol. 180; p. 74.
Metal-cutting shears. V. E. Edwards. No. 1,047,185; Dec. 17; Gaz. vol. 185; p. 549.
Metal-cutting tools, Chip-controlling means for. J. Hartness. No. 1,036,102; Aug. 20; Gaz. vol. 181; p. 644.
Metal-dividing machines, Rotating disk for. H. Heynau. No. 1,039,738; Oct. 1; Gaz. vol. 183; p. 23.
Metal, Expanded. W. D. Forsyth. No. 1,017,255; Feb. 13; Sp. p. 2286; Gaz. vol. 175; p. 389.
Metal, Expanded. W. D. Forsyth. No. 1,019,034; Mar. 5; Sp. p. 44; Gaz. vol. 176; p. 10.
Metal-extractor, Centrifugal. A. Maassen. No. 1,043,947; Nov. 12; Gaz. vol. 184; p. 348.
Metal fabric. S. C. Cary. No. 1,045,122; Nov. 26; Gaz. vol. 184; p. 812.
Metal foils, Manufacturing leaf. H. Beer. No. 1,023,713; Apr. 16; Sp. p. 4126; Gaz. vol. 177; p. 724.
Metal frame. A. W. Walter. No. 1,032,036; July 9; Gaz. vol. 180; p. 452.
Metal from metal-coated bodies, Apparatus for removing superfluous. G. Buchert. No. 1,034,687; Aug. 6; Gaz. vol. 181; p. 94.
Metal from ores, Machine for separating. C. Ross. No. 1,045,083; Nov. 19; Gaz. vol. 184; p. 770.
Metal from sand, Apparatus for separating magnetic. J. W. Brown, Jr. No. 1,034,969; Aug. 6; Gaz. vol. 181; p. 190.
Metal-hardening compound. E. Sweet. No. 1,032,438; July 16; Gaz. vol. 180; p. 633.
Metal-incrustation-preventing apparatus. H. Young. No. 1,032,723; July 16; Gaz. vol. 180; p. 732.
Metal into blocks, Apparatus for compressing scrap. E. Kardos. No. 1,026,987; May 21; Sp. p. 4200; Gaz. vol. 178; p. 717.
Metal into wood, Machine for corrugating, cutting up, and driving strips of. E. H. Barnes and E. C. Thorschmidt. No. 1,039,478; Sept. 24; Gaz. vol. 182; p. 868.
Metal lath, Cutter for ribbed. R. W. Adams and J. A. Currey. No. 1,044,966; Nov. 19; Gaz. vol. 184; p. 729.
Metal machine, Expanded-. F. M. Whetstone. No. 1,048,617; Dec. 31; Gaz. vol. 185; p. 1110.
Metal, Making expanded. W. D. Forsyth. No. 1,015,264; Jan. 16; Sp. p. 4788; Gaz. vol. 174; p. 805.
Metal, Manufacture of expanded. H. Salmon. No. 1,043,733; Nov. 5; Gaz. vol. 184; p. 242.
Metal-melting furnace. C. D. McCourt. No. 1,046,828; Dec. 10; Gaz. vol. 185; p. 398.
Metal, Melting scrap. A. E. Greene. No. 1,018,418; Feb. 27; Sp. p. 4841; Gaz. vol. 175; p. 857.
Metal-mixers, Safety device for. W. P. Gleason. No. 1,038,872; Sept. 17; Gaz. vol. 182; p. 643.
Metal objects, Method of and apparatus for producing compound. B. E. Eldred. No. 1,043,577; Nov. 5; Gaz. vol. 184; p. 190.
Metal objects, Producing coated. J. F. Monnot. No. 1,042,586; Oct. 29; Gaz. vol. 183; p. 1115.
Metal oxids, Making. H. Foersterlin. No. 1,019,004; Feb. 27; Sp. p. 6166; Gaz. vol. 175; p. 1057.
Metal pans, Machine for folding the corners of. E. J. Wittebolle. No. 1,020,939; Mar. 19; Sp. p. 4094; Gaz. vol. 176; p. 715.
Metal, Plastic. C. L. Alexander. No. 1,040,972; Oct. 8; Gaz. vol. 183; p. 472.
Metal-plated article. E. L. Watrous. No. 1,027,782; May 28; Sp. p. 5871; Gaz. vol. 178; p. 1021.
Metal plates, Lithograining. F. Niemeyer. No. 1,045,068; Nov. 19; Gaz. vol. 184; p. 766.
Metal plates, Machine for upsetting. C. L. Parmelee. No. 1,040,398; Oct. 8; Gaz. vol. 183; p. 274.
Metal-polish. A. Ridd. No. 1,026,883; May 21; Sp. p. 3954; Gaz. vol. 178; p. 681.
Metal, Pyrophorous. F. Krieger. No. 1,023,661; Apr. 16; Sp. p. 4043; Gaz. vol. 177; p. 709.
Metal-rod-bending apparatus. R. B. Hartman. No. 1,042,112; Oct. 22; Gaz. vol. 183; p. 926.
Metal-scrap-compressing machine. J. Dunn. No. 1,033,090; July 23; Gaz. vol. 180; p. 892.
Metal-scrap-compressing machines, Receiving-box for. J. Dunn. No. 1,033,091; July 23; Gaz. vol. 180; p. 892.
Metal seat, Pressed-. R. T. J. Martin. No. 1,014,013; Jan. 9; Sp. p. 2060; Gaz. vol. 174; p. 348.
Metal separator and collector. S. L. Boggs. No. 1,037,114; Aug. 27; Gaz. vol. 181; p. 1022.

Alphabetical list of inventions—Continued.

Metal-shaping machine. L. B. Kauffmann. No. 1,015,324; Jan. 23; Sp. p. 4935; Gaz. vol. 174; p. 853.
Metal-shaping machine. C. H. Riegel. No. 1,045,082; Nov. 19; Gaz. vol. 184; p. 770.
Metal sheets, Coating. G. Russell. No. 1,035,242; Aug. 13; Gaz. vol. 181; p. 312.
Metal sheets, Means for feeding. O. Dempewolf. No. 1,027,598; May 28; Sp. p. 5501; Gaz. vol. 178; p. 962.
Metal sheets or plates, Treating. H. E. Sheldon. No. 1,016,715; Feb. 6; Sp. p. 1089; Gaz. vol. 175; p. 168.
Metal staying-strips, Die for forming. W. D. Stanger. No. 1,044,283; Nov. 12; Gaz. vol. 184; p. 463.
Metal-straightening machine. S. D. Locke. No. 1,042,131; Oct. 22; Gaz. vol. 183; p. 931.
Metal-strap ends, Joining. E. E. Flora. No. 1,038,108; Sept. 10; Gaz. vol. 182; p. 345.
Metal-strip-straightening device. M. M. Beeman. No. 1,034,059; July 30; Gaz. vol. 180; p. 1247.
Metal-strip-untwisting device. M. M. Beeman. No. 1,034,060; July 30; Gaz. vol. 180; p. 1248.
Metal strips, Machine for uncoiling and straightening. J. F. Kitchen. No. 1,047,240; Dec. 17; Gaz. vol. 185; p. 570.
Metal strips, Machine for uncoiling and straightening. M. M. Beeman and J. F. Kitchen. No. 1,048,793; Dec. 31; Gaz. vol. 185; p. 1173.
Metal strips, Tool for use in fastening. E. E. Flora. No. 1,038,109; Sept. 10; Gaz. vol. 182; p. 345.
Metal structures, Making expanded-. H. E. White. No. 1,014,617; Jan. 9; Sp. p. 3342; Gaz. vol. 174; p. 554.
Metal tie. W. H. Morgan. No. 1,028,250; June 4; Sp. p. 417; Gaz. vol. 179; p. 60.
Metal tie. J. D. Ellis. No. 1,034,435; Aug. 6; Gaz. vol 181; p. 12.
Metal, Tool for making angular bends in. A. H. Olson. No. 1,040,745; Oct. 8; Gaz. vol. 183; p. 397.
Metal tube and making same, Butt-seamed. R. Koenig. No. 1,019,485; Mar. 5; Sp. p. 1116; Gaz. vol. 176; p. 163.
Metal tubes, Continuous process of manufacturing. M. B. Lloyd. No. 1,027,864; May 28; Sp. p. 6093; Gaz. vol. 178; p. 1050.
Metal tubes, &c., Making. E. Maertens. No. 1,039,065; Sept. 17; Gaz. vol. 182; p. 704.
Metal tubes, Manufacturing. W. J. and J. W. Moon. No. 1,026,103; May 14; Sp. p. 2246; Gaz. vol. 178; p. 378.
Metal tubes, Manufacturing. M. B. Lloyd. No. 1,028,039; May 28; Sp. p. 6472; Gaz. vol. 178; p. 1108.
Metal tubes, rods, &c., Apparatus for galvanizing. F. Werth. No. 1,015,863; Jan. 30; Sp. p. 6096; Gaz. vol. 174; p. 1063.
Metal tubes, rods, &c., Manufacture of. H. Reinhard. No. 1,029,513; June 11; Sp. p. 3125; Gaz. vol. 179; p. 524.
Metal-turning machines, Work-holder for. J. Hartness. No. 1,036,105; Aug. 20; Gaz. vol. 181; p. 645.
Metal-turning tool. J. Hartness. No. 1,036,101; Aug. 20; Gaz. vol. 181; p. 643.
Metal-turning tools, Chip-controller for. J. Hartness. No. 1,036,103; Aug. 20; Gaz. vol. 181; p. 644.
Metal, Uniting. E. Thomson. No. 1,022,712; Apr. 9; Sp. p. 2067; Gaz. vol. 177; p. 355.
Metal work, Composite sheet-. A. F. Rietzel. No. 1,020,056; Mar. 12; Sp. p. 2229; Gaz. vol. 176; p. 384.
Metal-working apparatus, Clamp for electric. E. Thomson. No. 1,048,915; Dec. 31; Gaz. vol. 185; p. 1214.
Metal-working apparatus, Electric. A. F. Rietzel and G. E. Barstow. No. 1,041,673; Oct. 15; Gaz. vol. 183; p. 739.
Metal-working apparatus, Pressure device for electric. A. F. Rietzel. No. 1,048,884; Dec. 31; Gaz. vol. 185; p. 1203.
Metal-working machine. F. C. B. Page. No. 1,026,825; May 21; Sp. p. 3809; Gaz. vol. 178; p. 660.
Metal-working machine. M. Kennedy. No. 1,034,466; Aug. 6; Gaz. vol. 181; p. 22.
Metal-working machine. J. C. Potter and J. Johnston. No. 1,038,434; Sept. 10; Gaz. vol. 182; p. 457.
Metal-working machine. C. D. McDonald. No. 1,039,565; Sept. 24; Gaz. vol. 182; p. 899.
Metal-working machine, Electrical. E. Thomson. No. 1,045,911; Dec. 3; Gaz. vol. 185; p. 40.
Metal-working-machine reel. O. A. Smith. No. 1,020,460; Mar. 19; Sp. p. 3073; Gaz. vol. 176; p. 556.
Metal-working machines, Stop mechanism for. J. Hartness. No. 1,036,106; Aug. 20; Gaz. vol. 181; p. 645.
Metal-working machines, Work-table for. W. F. Zimmermann. No. 1,029,656; June 18; Sp. p. 3437; Gaz. vol. 179; p. 611.
Metal-working machinery. C. C. Wais. No. 1,046,691; Dec. 10; Gaz. vol. 185; p. 351.
Metal-working shears. C. H. Prince. No. 1,046,852; Dec. 10; Gaz. vol. 185; p. 406.
Metal-working tools, Cutter for. J. Hartness. No. 1,021,868; Apr. 2; Sp. p. 253; Gaz. vol. 177; p. 41.
Metals and alloys, Case-hardening. M. Gräf and O. Peschel. No. 1,017,748; Feb. 20; Sp. p. 3311; Gaz. vol. 175; p. 592.
Metals and alloys, Process and apparatus for extracting and refining. A. E. Greene. No. 1,031,257; July 2; Gaz. vol. 180; p. 145.
Metals and alloys, Producing refined. A. E. Greene. No. 1,034,784; Aug. 6; Gaz. vol. 181; p. 128.
Metals and alloys, Producing refined. A. E. Greene. No. 1,034,785; Aug. 6; Gaz. vol. 181; p. 129.
Metals and alloys, Refining. A. E. Greene. No. 1,034,787; Aug. 6; Gaz. vol. 181; p. 130.
Metals and making same, Clad. B. E. Eldred. No. 1,043,576; Nov. 5; Gaz. vol. 184; p. 190.
Metals and ores, Extracting and refining. A. E. Greene. No. 1,034,788; Aug. 6; Gaz. vol. 181; p. 130.
Metals, Coloring. S. Axelrod. No. 1,023,291; Apr. 16; Sp. p. 3309; Gaz. vol. 177; p. 591.
Metals, Electric deposition of. A. P. Strohmenger. No. 1,041,525; Oct. 15; Gaz. vol. 183; p. 691.
Metals, Electrodeposition of. A. Leuchter. No. 1,026,627; May 14; Sp. p. 3368; Gaz. vol. 178; p. 555.
Metals, Electrodeposition of. J. A. Corey. No. 1,036,571; Aug. 27; Gaz. vol. 181; p. 841.
Metals, Electrolytic deposition of. P. Marino. No. 1,028,895; June 11; Sp. p. 1789; Gaz. vol. 179; p. 313.
Metals, Electrolytic production of light. G. O. Seward, F. von Kügelgen, and F. von Bidder. No. 1,043,154; Nov. 5; Gaz. vol. 184; p. 38.
Metals, Extracting. A. H. Perret. No. 1,028,774; June 4; Sp. p. 1519; Gaz. vol. 179; p. 236.
Metals from ores, Extracting. J. Baxeres de Alzugaray. No. 1,041,407; Oct. 15; Gaz. vol. 183; p. 652.
Metals from ores, Leaching solution for extracting. J. Baxeres de Alzugaray. No. 1,018,955; Feb. 27; Sp. p. 6027; Gaz. vol. 175; p. 1039.
Metals from their ores, Process and apparatus for recovering. J. A. Potter. No. 1,026,999; May 21; Sp. p. 4226; Gaz. vol. 178; p. 721.
Metals in vacuums, Apparatus for melting and mixing. W. S. Simpson. No. 1,015,091; Jan. 16; Sp. p. 4444; Gaz. vol. 174; p. 748.
Metals, Joining. A. F. Rietzel. No. 1,040,418: Oct. 8; Gaz. vol. 183; p. 281.
Metals, Preparation for regenerating. B. Türke. No. 1,029,327; June 11; Sp. p. 2733; Gaz. vol. 179; p. 462.
Metals, &c., Process of and apparatus for atomizing. J. M. Neil. No. 1,036,689; Aug. 27; Gaz. vol. 181; p. 880.
Metals, Producing porous. H. I. Hannover. No. 1,042,111; Oct. 22; Gaz. vol. 183; p. 925.
Metals, Production of films or thin sheets of. W. G. Wagner. No. 1,025,848; May 7; Sp. p. 1613; Gaz. vol. 178; p. 256.
Metals, Purification of. W. H. Kelly. No. 1,041,801; Oct. 22; Gaz. vol. 183; p. 821.
Metals, Purifying. A. G. Sundberg. No. 1,043,371; Nov. 5; Gaz. vol. 184; p. 117.
Metals, Scaling and annealing. S. O. Cowper-Coles. No. 1,047,616; Dec. 17; Gaz. vol. 185; p. 704.
Metals, Treatment of. W. H. Kelly. No. 1,019,965; Mar. 12; Sp. p. 2045; Gaz. vol. 176; p. 354.
Metallic apron intake and outlet. G. L. Hess. No. 1,041,625; Oct. 15; Gaz. vol. 183; p. 721.
Metallic articles, Producing. O. L. Heintz. No. 1,037,143; Aug. 27; Gaz. vol. 181; p. 1031.
Metallic box. W. I. Tuttle. No. 1,023,893; Apr. 23; Sp. p. 4541; Gaz. vol. 177; p. 812.
Metallic frame. E. G. Budd. No. 1,042,644; Oct. 29; Gaz. vol. 183; p. 1135.
Metallic link fabric. J. Pejchar. No. 1,019,830; Mar. 12; Sp. p. 1755; Gaz. vol. 176; p. 308.
Metallic plates, Machine for bending. G. W. Wells. No. 1,030,259; June 18; Sp. p. 4756; Gaz. vol. 179; p. 819.
Metallic reel. E. H. Broden and J. G. Mustin. No. 1,020,078; Mar. 12; Sp. p. 2276; Gaz. vol. 176; p. 392.
Metallic screen. H. W. and W. W. Watson. No. 1,030,694; June 25; Sp. p. 5937; Gaz. vol. 179; p. 1014.
Metallic structure, such as doors and the like. J. E. Frey. No. 1,018,896; Feb. 27; Sp. p. 5905; Gaz. vol. 175; p. 1018.
Metallic surfaces from corrosion, Means for protecting. G. Rigg. No. 1,031,377; July 2; Gaz. vol. 180; p. 185.
Metallic tie. W. F. Walker. No. 1,016,309; Feb. 6; Sp. p. 165; Gaz. vol. 175; p. 25.
Metallic tie. W. Nalepka. No. 1,028,484: June 4; Sp. p. 932; Gaz. vol. 179; p. 140.
Metallic tie. B. S. Rupp and J. W. Johnson. No. 1,028,791; June 4; Sp. p. 1552; Gaz. vol. 179; p. 242.
Metallic tie. L. J. Riegler. No. 1,043,727; Nov. 5; Gaz. vol. 184; p. 240.
Metallic tie. F. L. Magee. No. 1,045,050; Nov. 19; Gaz. vol. 184; p. 760.
Metallic tie and fastener. J. C. Russell. No. 1,044,085; Nov. 12; Gaz. vol. 184; p. 396.
Metallic tie and joint. J. Hajdú and S. Németh. No. 1,020,415; Mar. 19; Sp. p. 2981; Gaz. vol. 176; p. 540.
Metallic tie and rail-chair. M. E. Packer. No. 1,041,337; Oct. 15; Gaz. vol. 183; p. 629.
Metallic tie and rail-chair. J. H. Capps. No. 1,045,255; Nov. 26; Gaz. vol. 184; p. 859.
Metallic tie and rail-clamp. A. S. Lawson. No. 1,041,106; Oct. 15; Gaz. vol. 183; p. 551.
Metallic tie and rail-fastener. D. C. Miller. No. 1,015,056; Jan. 16; Sp. p. 4385; Gaz. vol. 174; p. 736.
Metallic tie and rail-fastener. W. C. Neth. No. 1,017,449; Feb. 13; Sp. p. 2715; Gaz. vol. 175; p. 456.

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Metallic tie and rail-fastener. J. Adams. No. 1,020,392; Mar. 19; Sp. p. 2933; Gaz. vol. 176; p. 533.
Metallic tie and rail-fastener. J. Jendral. No. 1,020,984; Mar. 26; Sp. p. 4219; Gaz. vol. 176; p. 783.
Metallic tie and rail-fastener. A. Sedivyg. No. 1,022,271; Apr. 2; Sp. p. 1088; Gaz. vol. 177; p. 174.
Metallic tie and rail-fastener. F. P. Hunkle and C. Nordfeldt. No. 1,024,939; Apr. 30; Sp. p. 6886; Gaz. vol. 177; p. 1209.
Metallic tie and rail-fastener. C. Malý. No. 1,025,704; May 7; Sp. p. 1319; Gaz. vol. 178; p. 205.
Metallic tie and rail-fastener. F. Arellano. No. 1,031,225; July 2; Gaz. vol. 180; p. 133.
Metallic tie and rail-fastener. D. Phillips. No. 1,034,296; July 30; Gaz. vol. 180; p. 1329.
Metallic tie and rail-fastener. J. Spielmann. No. 1,047,583; Dec. 17; Gaz. vol. 185; p. 693.
Metallic tie, rail fastener, and rail-joint. H. J. Smith. No. 1,032,161; July 9; Gaz. vol. 180; p. 493.
Metallic tube. A. C. Mills. No. 1,034,483; Aug. 6; Gaz. vol. 181; p. 27.
Metallic wheel. S. H. Summerscales. No. 1,042,290; Oct. 22; Gaz. vol. 183; p. 983.
Metallization of silicious articles, Superficial. P. Marino. No. 1,041,126; Oct. 15; Gaz. vol. 183; p. 557.
Metallurgical furnace. J. R. Moffitt. No. 1,014,971; Jan. 16; Sp. p. 4202; Gaz. vol. 174; p. 707.
Metallurgical furnace. G. H. Benjamin. No. 1,026,197; May 14; Sp. p. 2445; Gaz. vol. 178; p. 410.
Metallurgical furnace. F. B. Lamb. No. 1,036,499; Aug. 20; Gaz. vol. 181; p. 784.
Metallurgical furnace. F. B. Lamb. No. 1,036,500; Aug. 20; Gaz. vol. 181; p. 784.
Metallurgical furnace. U. Wedge. No. 1,040,071; Oct. 1; Gaz. vol. 183; p. 134.
Metallurgical furnace. H. E. Smythe. No. 1,042,047; Oct. 22; Gaz. vol. 183; p. 904.
Metallurgical furnace. C. H. Fulton and W. A. Coursen. No. 1,048,144; Dec. 24; Gaz. vol. 185; p. 912.
Metallurgical product. W. Rübel. No. 1,033,352; July 23; Gaz. vol. 180; p. 982.
Meter: *See* Current-meter; Distance and speed meter; Electric meter; Electricity-meter; Electrolytic meter; Fluid-meter; Frequency-meter; Gas-meter; Gas and air mixing meter; Liquid-meter; Maximum-indicating and watt-hour meter; Mercury-meter; Mercury motor-meter; Photo-exposure meter; Prepayment-meter; Proportional meter; Rotary meter; Steam, air, or other gas meter; Steam and gas meter; Telephone-meter; Telephone-service meter; Time-exposure meter; Water-meter; Wave-meter.
Meter. E. A. Hitchcock. No. 1,018,561; Feb. 27; Sp. p. 5216; Gaz. vol. 175; p. 906.
Meter. W. J. Mowbray. No. 1,024,218; Apr. 23; Sp. p. 5282; Gaz. vol. 177; p. 926.
Meter. A. Frank. No. 1,024,886; Apr. 30; Sp. p. 6766; Gaz. vol. 177; p. 1190.
Meter. R. L. Dezendorf. No. 1,031,696; July 9; Gaz. vol. 180; p. 336.
Meter. H. D. Yates. No. 1,046,244; Dec. 3; Gaz. vol. 185; p. 155.
Meter-actuating mechanism, Coin-freed-. C. E. Hibberd. No. 1,035,189; Aug. 13; Gaz. vol. 181; p. 294.
Meter-box. J. T. Jackson. No. 1,038,146; Sept. 10; Gaz. vol. 182; p. 357.
Meter-box cover. J. P. Ryder. No. 1,015,907; Jan. 30; Sp. p. 6195; Gaz. vol. 174; p. 1080.
Meter box, Water-. M. N. Griffin. No. 1,042,218; Oct. 22; Gaz. vol. 183; p. 960.
Meter circuits, Service-. H. D. Currier and G. Wolf. No. 1,026,151; May 14; Sp. p. 2341; Gaz. vol. 178; p. 395.
Meter connection-blocks, Case for. G. E. Palmer. No. 1,028,268; June 4; Sp. p. 451; Gaz. vol. 179; p. 65.
Meter connection-box. F. C. Grady. No. 1,024,931; Apr. 30; Sp. p. 6868; Gaz. vol. 177; p. 1207.
Meter connections, Protecting device for. P. H. Bartlett. No. 1,036,423; Aug. 20; Gaz. vol. 181; p. 758.
Meter-record. M. H. Kane. No. 1,021,317; Mar. 26; Sp. p. 4899; Gaz. vol. 176; p. 895.
Meter recording mechanism. B. H. Mead. No. 1,043,336; Nov. 5; Gaz. vol. 184; p. 104.
Meter support or shelf. P. Mueller and A. C. Schuermann. No. 1,018,675; Feb. 27; Sp. p. 5444; Gaz. vol. 175; p. 944.
Meter-tester. R. E. Joyce. No. 1,023,739; Apr. 16; Sp. p. 4167; Gaz. vol. 177; p. 732.
Meter tester, Fluid-. P. Mueller. No. 1,038,182; Sept. 10; Gaz. vol. 182; p. 369.
Meter-testing connection-block. T. E. Murray. No. 1,036,507; Aug. 20; Gaz. vol. 181; p. 787.
Meter-testing machines, Branch connection for. P. Mueller. No. 1,028,481; June 4; Sp. p. 927; Gaz. vol. 179; p. 139.
Meter-testing service cut-out. T. E. Murray. No. 1,031,363; July 2; Gaz. vol. 180; p. 180.
Metering system. F. Conrad and W. M. Bradshaw. No. 1,029,743; June 18; Sp. p. 3642; Gaz. vol. 179; p. 642.
Methyl alcohol from waste products of the caustic-soda-cellulose process, Producing. H. O. V. Bergström and O. Fagerlind. No. 1,032,982; July 16; Gaz. vol. 180; p. 816.
Mezzanine-chair. J. L. Knight. No. 1,039,759; Oct. 1; Gaz. vol. 183; p. 30.
Mica-board, &c., Machine for making. W. H. Sills. No. 1,024,529; Apr. 30; Sp. p. 5989; Gaz. vol. 177; p. 1066
Mica or other material, Apparatus for distributing and leveling pieces or scales of. C. W. Jefferson. No. 1,026,986; May 21; Sp. p. 4197; Gaz. vol. 178; p. 716.
Micrometer-feed mechanism. M. Kronert. No. 1,027,549; May 28; Sp. p. 5394; Gaz. vol. 178; p. 945.
Micrometer-gage. M. A. Smith. No. 1,021,384; Mar. 26; Sp. p. 5038; Gaz. vol. 176; p. 918.
Micrometer-gage. H. E. Eddy and E. B. Crocker. No. 1,027,827; May 28; Sp. p. 5983; Gaz. vol. 178; p. 1038.
Micrometer sizing-block. J. T. Schamel. No. 1,040,774; Oct. 8; Gaz. vol. 183; p. 406.
Microphone. H. E. Shreeve. No. 1,026,057; May 14; Sp. p. 2128; Gaz. vol. 178; p. 362.
Microphone-transmitter, Differential. J. J. Comer. No. 1,033,085; July 23; Gaz. vol. 180; p. 890.
Microphone-transmitter, Differential. J. J. Comer. No. 1,033,086; July 23; Gaz. vol. 180; p. 890.
Microphone-transmitter, Differential. J. J. Comer. No. 1,033,087; July 23; Gaz. vol. 180; p. 891.
Microscope. K. M. Stahl. No. 1,022,606; Apr. 9; Sp. p. 1811; Gaz. vol. 177; p. 316.
Microscopes, Nose-piece for. H. N. Ott and K. Leuchsenring. No. 1,023,390; Apr. 16; Sp. p. 3506; Gaz. vol. 177; p. 624.
Microtome. H. N. Ott. No. 1,026,280; May 14; Sp. p. 2617; Gaz. vol. 178; p. 438.
Mileage registering and auditing apparatus, Automatic. J. T. Gallaher. No. 1,039,724; Oct. 1; Gaz. vol. 183; p. 18.
Milk-agitator. W. P. Tinsley. No. 1,045,913; Dec. 3; Gaz. vol. 185; p. 41.
Milk and other liquids, Apparatus for treating. A. Fornander. No. 1,013,594; Jan. 2; Sp. p. 1089; Gaz. vol. 174; p. 175.
Milk and other liquids, Apparatus for treating. A. Fornander. No. 1,013,595; Jan. 2; Sp. p. 1091; Gaz. vol. 174; p. 175.
Milk, &c., Apparatus for treating. H. Feldmeier and C. B. Dalzell. No. 1,034,225; July 30; Gaz. vol. 180; p. 1304.
Milk-can. L. R. Steel. No. 1,013,693; Jan. 2; Sp. p. 1347; Gaz. vol. 174; p. 209.
Milk-can. E. M. Peacock. No. 1,013,810; Jan. 2; Sp. p. 1572; Gaz. vol. 174; p. 250.
Milk-can. L. R. Steel. No. 1,016,375; Feb. 6; Sp. p. 303; Gaz. vol. 175; p. 48.
Milk-can. L. R. Steel. No. 1,016,973; Feb. 13; Sp. p. 1651; Gaz. vol. 175; p. 290.
Milk-can. G. Shepard. No. 1,022,975; Apr. 9; Sp. p. 2614; Gaz. vol. 177; p. 444.
Milk-can. C. B. Peoples and A. E. Yelton. No. 1,030,325; June 25; Sp. p. 4943; Gaz. vol. 179; p. 881.
Milk-can or the like. W. S. Childs. No. 1,042,084; Oct. 22; Gaz. vol. 183; p. 916.
Milk-can, Sanitary. J. R. Bostwick. No. 1,022,819; Apr. 9; Sp. p. 2289; Gaz. vol. 177; p. 391.
Milk-condenser. S. P. Hay. No. 1,042,912; Oct. 29; Gaz. vol. 183; p. 1228.
Milk cooling and bottling apparatus. W. A. Shephard. No. 1,048,597; Dec. 31; Gaz. vol. 185; p. 1104.
Milk, cream, and water cooler. J. P. Emery and E. H. Rossner. No. 1,027,706; May 28; Sp. p. 5722; Gaz. vol. 178; p. 997.
Milk, cream, &c., Machine for homogenizing. F. P. Cribbins. No. 1,030,649; June 25; Sp. p. 5834; Gaz. vol. 179; p. 999.
Milk, Desiccating. J. Roeh. No. 1,014,609; Jan. 9; Sp. p. 3325; Gaz. vol. 174; p. 551.
Milk, Desiccating. C. H. Campbell. No. 1,015,262; Jan. 16; Sp. p. 4785; Gaz. vol. 174; p. 805.
Milk, Desiccating. L. C. and I. S. Merrill. No. 1,048,463; Dec. 24; Gaz. vol. 185; p. 1019.
Milk, Desiccating. E. Passburg. No. 1,049,141; Dec. 31; Gaz. vol. 185; p. 1292.
Milk-drying apparatus. J. McIntyre. No. 1,026,757; May 21; Sp. p. 3664; Gaz. vol. 178; p. 636.
Milk, Manufacturing artificially-soured. J. Willmann. No. 1,025,772; May 7; Sp. p. 1457; Gaz. vol. 178; p. 229.
Milk or cream, Composition for curdling. J. D. Frederiksen. No. 1,046,766; Dec. 10; Gaz. vol. 185; p. 379.
Milk-package. W. G. Brown. No. 1,013,639; Jan. 2; Sp. p. 1190; Gaz. vol. 174; p. 190.
Milk-pan. S. C. Gamble. No. 1,043,585; Nov. 5; Gaz. vol. 184; p. 193.
Milk product and process. C. H. and P. T. Campbell. No. 1,016,548; Feb. 6; Sp. p. 745; Gaz. vol. 175; p. 109.
Milk, Testing the freshness of. A. Faitelowitz. No. 1,030,171; June 18; Sp. p. 4560; Gaz. vol. 179; p. 788.
Milk, Treating. J. McIntyre. No. 1,026,756; May 21; Sp. p. 3660; Gaz. vol. 178; p. 636.
Milk-turner. W. T. Haynes. No. 1,023,737; Apr. 16; Sp. p. 4165; Gaz. vol. 177; p. 731.
Milking apparatus. D. T. Sharples. No. 1,014,671; Jan. 16; Sp. p. 3524; Gaz. vol. 174; p. 604.
Milking apparatus. A. S. Reid. No. 1,044,246; Nov. 12; Gaz. vol. 184; p. 451.

Alphabetical list of inventions—Continued.

Milking device. E. Lévay. No. 1,024,903; Apr. 30; Sp. p 6804; Gaz. vol. 177; p. 1196.
Milking-machine. N. Rosenqvist. No. 1,014,331; Jan. 9; Sp. p. 2759; Gaz. vol. 174; p. 459.
Milking-machine. C. E. Gane. No. 1,016,004; Jan. 30; Sp. p. 6401; Gaz. vol. 174; p. 1114.
Milking-machine. C. Bokalrud. No. 1,017,502; Feb. 13; Sp. p. 2806; Gaz. vol. 175; p. 474.
Milking-machine. J. Nielsen. No. 1,017,580; Feb. 13; Sp. p. 2951; Gaz. vol. 175; p. 498.
Milking-machine. R. H. J. Gjetting. No. 1,018,610; Feb. 27; Sp. p. 5312; Gaz. vol. 175; p. 922.
Milking-machine. K. W. Johansson. No. 1,021,192; Mar. 26; Sp. p. 4641; Gaz. vol. 176; p. 851.
Milking-machine. L. D. De Laney and M. A. Haltzbauer. No. 1,021,578; Mar. 26; Sp. p. 5485; Gaz. vol. 176; p. 985.
Milking-machine. D. Klein. No. 1,024,859; Apr. 30; Sp p. 6714; Gaz. vol. 177; p. 1182.
Milking-machine. D. Alfvén. No. 1,031,503; July 2; Gaz. vol. 180; p. 228.
Milking-machine. D. Alfvén. No. 1,033,515; July 23; Gaz. vol. 180; p. 1035.
Milking-machine. J. Huggler. No. 1,034,454; Aug. 6; Gaz. vol. 181; p. 18.
Milking-machine. O. C. Sibilsky. No. 1,036,355; Aug. 20; Gaz. vol. 181; p. 734.
Milling-machine. P. A. Cuenot and L. G. Fischer. No. 1,045,817; Dec. 3; Gaz. vol. 185; p. 7.
Milking-machine. K. I. Lindström. No. 1,045,991; Dec. 3; Gaz. vol. 185; p. 66.
Milling-machine. P. A. Cuenot and L. G. Fischer. No. 1,047,177; Dec. 17; Gaz. vol. 185; p. 546.
Milking-machine. B. M. Aslakson. No. 1,048,481; Dec. 31; Gaz. vol. 185; p. 1063.
Milking machine, Cow-. F. E. Newell. No. 1,029,216; June 11; Sp. p. 2483; Gaz. vol. 179; p. 422.
Milking machine, Cow-. F. E. Newell. No. 1,030,010; June 18; Sp. p. 4223; Gaz. vol. 179; p. 732.
Milking-machine pulsating mechanism. D. T. Sharples. No. 1,034,314; July 30; Gaz. vol. 180; p. 1334.
Milking-machine pulsator. R. H. J. Gjetting. No. 1,017,405; Feb. 13; Sp. p. 2596; Gaz. vol. 175; p. 440.
Milking-machine pulsator. A. L. Berthelsen. No. 1,043,040; Oct. 29; Gaz. vol. 183; p. 1272.
Milking-machine teat-cup. F. A. Lane. No. 1,015,032; Jan. 16; Sp. p. 4330; Gaz. vol. 174; p. 728.
Milking-machines, Driving device for. U. H. Dahlgren. No. 1,046,446; Dec. 10; Gaz. vol. 185; p. 263.
Milking machinery. C. R. Mitchell. No. 1,018,846; Feb. 27; Sp. p. 5802; Gaz. vol. 175; p. 1002.
Milking, Mechanically. J. L. Hulbert. No. 1,043,013; Oct. 29; Gaz. vol. 183; p. 1262.
Milking of cows and the branding of cattle, Inclosure or building for the. W. L. Boyce. No. 1,043,293; Nov. 5; Gaz. vol. 184; p. 88.
Milking, Pulsator for pneumatic. C. V. Henrichsen. No. 1,045,402; Nov. 26; Gaz. vol. 184; p. 909.
Milking, Sanitary structure and appliance for use in cow-. G. M. Lummis. No. 1,025,955; May 7; Sp. p. 1893; Gaz. vol. 178; p. 290.
Milking, Teat-cup support to facilitate. R. S. Goldstraw. No. 1,037,897; Sept. 10; Gaz. vol. 182; p. 274.
Mill: *See* Alfalfa-shredding mill; Attrition-mill; Ball-mill; Boring-mill; Cane-mill; Chilian mill; Cider-mill; Coffee-mill; Crushing-mill; Crushing and grinding mill; Fanning-mill; Feed-mill; Gold-ore-grinding mill; Grain-mill; Grinding-mill; Grist-mill; Ore-mill; Pug-mill; Pulverizer-mill; Pulverizing-mill; Quartz-mill; Reducing-mill; Rod-mill; Roller and breast mill; Rolling-mill; Rolling or reducing mill; Sawmill; Spice-mill; Stamp-mill; Sugar-mill; Swaging-mill; Three-high-roll mill; Tube-mill; Tubular mill; Windmill.
Milling and boring machine. C. F. Shanks. No. 1,022,051; Apr. 2; Sp. p. 638; Gaz. vol. 177; p. 101.
Milling-cutter. O. Unterloff. No. 1,019,564; Mar. 5; Sp. p. 1263; Gaz. vol. 176; p. 188.
Milling-machine. C. F. Shanks. No. 1,021,430; Mar. 26; Sp. p. 5167; Gaz. vol. 176; p. 935.
Milling-machine. W. T. Shepard. No. 1,021,950; Apr. 2; Sp. p. 424; Gaz. vol. 177; p. 69.
Milling-machine. C. J. Watts and F. J. Eberle. No. 1,023,184; Apr. 16; Sp. p. 3099; Gaz. vol. 177; p. 554.
Milling-machine. C. R. North. No. 1,040,983; Oct. 8; Gaz. vol. 183; p. 476.
Milling-machine attachment. J. Johnson. No. 1,040,954; Oct. 8; Gaz. vol. 183; p. 465.
Milling-machine, Hexagonal. O. A. Smith. No. 1,033,837; July 30; Gaz. vol. 180; p. 1168.
Mills, Operating hot-. S. A. Davis. No. 1,035,949; Aug. 20; Gaz. vol. 181; p. 591.
Mills, Sifting arrangement for flour-. O. Marquardt. No. 1,044,796; Nov. 19; Gaz. vol. 184; p. 672.
Millstones, mills, and the like, Frame for sets of. K. Wegerich. No. 1,037,813; Sept. 3; Gaz. vol. 182; p. 211.
Mine-alarm instrument. H. W. Lee and G. H. Weedman. No. 1,018,328; Feb. 20; Sp. p. 4621; Gaz. vol. 175; p. 794.
Mine-anchor. C. R. Gabriel. No. 1,023,832; Apr. 23; Sp. p. 4407; Gaz. vol. 177; p. 792.
Mine-cages or the like, Safety apparatus for supporting. C. Dickie, F. Lambert, and R. Stables. No. 1,020,483; Mar. 19; Sp. p. 3122; Gaz. vol. 176; p. 563.
Mine-door. Z. N. Cox. No. 1,034,693; Aug. 6; Gaz. vol. 181; p. 97.
Mine-door operator. P. Mace. No. 1,014,886; Jan 16; Sp. p. 4013; Gaz. vol. 174; p. 678.
Mine, Floating. A. Lernet. No. 1,042,574; Oct. 29; Gaz. vol. 183; p. 1110.
Mine gallery-frame. W. Binder. No. 1,034,065; July 30; Gaz. vol. 180; p. 1249.
Mine or lift cage safety gripping apparatus. L. S. Rayner. No. 1,031,819; July 9; Gaz. vol. 180; p. 379.
Mine-post. R. H. Weber. No. 1,046,517; Dec. 10; Gaz. vol. 185; p. 289.
Mine-prop. O. Grünewald and M. Gorich. No. 1,021,249; Mar. 26; Sp. p. 4770; Gaz. vol. 176; p. 870.
Mine-propping device. F. Nellen. No. 1,049,135; Dec. 31; Gaz. vol. 185; p. 1290.
Mine-protection system. J. McGavin. No. 1,021,370; Mar. 26; Sp. p. 5004; Gaz. vol. 176; p. 913.
Mine signaling device. J. Rule. No. 1,023,040; Apr. 9; Sp. p. 2734; Gaz. vol. 177; p. 467.
Mine-skip-unloading device. C. L. Lawton. No. 1,026,988; May 21; Sp. p. 4201; Gaz. vol. 178; p. 717.
Mine, Submarine. C. P. J. Carteron. No. 1,039,254; Sept. 24; Gaz. vol. 182; p. 790.
Mine, Submarine contact-. F. Brück. No. 1,021,089; Mar. 26; Sp. p. 4420; Gaz. vol. 176; p. 818.
Mines, Automatic firing device for submarine. G. E. Elia. No. 1,025,905; May 7; Sp. p. 1785; Gaz. vol. 178; p. 274.
Mines, Automatic speed-brake for submarine. F. Brück. No. 1,014,804; Jan. 16; Sp. p. 3816; Gaz. vol. 174; p. 649.
Mines, Device for preventing spread of explosions in coal-. J. Cosavello. No. 1,029,596; June 18; Sp. p. 3311; Gaz. vol. 179; p. 588.
Mines of all kinds and in quarries, Shield for detonators which are used in shot-firing in. A. Price and W. Pryse. No. 1,049,143; Dec. 31; Gaz. vol. 185; p. 1292.
Miner's combination tamping-tool, &c. L. and A. W. Shaffer. No. 1,040,037; Oct. 1; Gaz. vol. 183; p. 122.
Miner's-inch weir. W. F. Englebright. No. 1,042,097; Oct. 22; Gaz. vol. 183; p. 921.
Mining apparatus. E. F. Kellum. No. 1,020,649; Mar. 19; Sp. p. 3496; Gaz. vol. 176; p. 617.
Mining apparatus, Submarine. C. Williamson. No. 1,017,486; Feb. 13; Sp. p. 2779; Gaz. vol. 175; p. 469.
Mining coal, &c. J. H. Hoadley and W. H. Knight. No. 1,040,679; Oct. 8; Gaz. vol. 183; p. 376.
Mining-machine. R. E. Noble. No. 1,019,722; Mar. 5; Sp. p. 1550; Gaz. vol. 176; p. 241.
Mining-machine. L. F. Hess. No. 1,032,902; July 16; Gaz. vol. 180; p. 791.
Mining-machine bar. G. C. Arndt and G. N. Jack. No. 1,026,295; May 14; Sp. p. 2652; Gaz. vol. 178; p. 444.
Mining machine, Coal-. L. G. Williams. No. 1,043,183; Nov. 5; Gaz. vol. 184; p. 49.
Mining-machines, Cutter-chain for. W. A. Buettner and A. Shelburne. No. 1,023,549; Apr. 16; Sp. p. 3812; Gaz. vol. 177; p. 673.
Mining-sluice. P. Bouery. No. 1,036,430; Aug. 20; Gaz. vol. 181; p. 760.
Mining-tool. C. L. Aragon. No. 1,047,910; Dec. 24; Gaz. vol. 185; p. 855.
Mining tools or machines, Mounting for. W. Prellwitz. No. 1,023,595; Apr. 16; Sp. p. 3917; Gaz. vol. 177; p. 689.
Mining tools or machines, Support for. W. Prellwitz. No. 1,027,759; May 28; Sp. p. 5821; Gaz. vol. 178; p. 1013.
Mining-tub, Self-dumping. O. Belford. No. 1,039,688; Oct. 1; Gaz. vol. 183; p. 5.
Mineral-concentrator. C. O. Michaelsen. No. 1,027,349; May 21; Sp. p. 4980; Gaz. vol. 178; p. 839.
Mineral substances, Concentration of. J. M. Hyde. No. 1,022,085; Apr 2; Sp. p. 703; Gaz. vol. 177; p. 112.
Minerals from alluvial wash, Means for separating. R. Hughes. No. 1,048,171; Dec. 24; Gaz. vol. 185; p. 921.
Minnow, Artificial. H. C. Royer. No. 1,031,149; July 2; Gaz. vol. 180; p. 107.
Minnow catching and entrapping means. I. C. Crane. No. 1,036,574; Aug. 27; Gaz. vol. 181; p. 842.
Minnow-trap and lantern, Knockdown combination. T. F. Thomas. No. 1,041,195; Oct. 15; Gaz. vol. 183; p. 580.
Mirror and the like frame. J. W. Bailey. No. 1,039,881; Oct. 1; Gaz. vol. 183; p. 71.
Mirror, Angular. C. von Hofe. No. 1,027,420; May 28; Sp. p. 5146; Gaz. vol. 178; p. 903.
Mirror-bracket, Adjustable. L. W. Lundin. No. 1,031,075; July 2; Gaz. vol. 180; p. 81.
Mirror, Duplex hand-. T. Holmdahl. No. 1,024,510; Apr. 30; Sp. p. 5934; Gaz. vol. 177; p. 1059.
Mirror-holder. R. H. Le Page. No. 1,029,071; June 11; Sp. p. 2170; Gaz. vol. 179; p. 374.
Mirror-holder, Adjustable. O. O. Bergh. No. 1,041,002; Oct. 15; Gaz. vol. 183; p. 515.
Mirror, Mouth-. H. R. Smith. No. 1,021,639; Mar. 26; Sp. p. 5592; Gaz. vol. 176; p. 1005.

Alphabetical list of inventions—Continued.

Mirror-panel, Metallic. A. Hendricks. No. 1,027,540; May 28; Sp. p. 5380; Gaz. vol. 178; p. 942.
Mirror-support. C. S. Buzby. No. 1,029,420; June 11; Sp. p. 2949; Gaz. vol. 179; p. 493.
Miter-box. E. A. Schade and C. Bodmer. No. 1,013,319; Jan. 2; Sp. p. 516; Gaz. vol. 174; p. 81.
Miter-box. J. L. Stevens. No. 1,014,674; Jan. 16; Sp. p. 3540; Gaz. vol. 174; p. 605.
Miter-box. H. S. Miller. No. 1,017,640; Feb. 13; Sp. p. 3070; Gaz. vol. 175; p. 517.
Miter-box. P. R. Wallis. No. 1,026,535; May 14; Sp. p. 3174; Gaz. vol. 178; p. 525.
Miter-box. R. L. Macey. No. 1,030,474; June 25; Sp. p. 5277; Gaz. vol. 179; p. 936.
Miter-box. W. N. Craig. No. 1,032,046; July 9; Gaz. vol. 180; p. 456.
Miter-box. C. Wold. No. 1,033,140; July 23; Gaz. vol. 180; p. 909.
Miter-box. W. A. and W. H. Prentice. No. 1,035,466; Aug. 13; Gaz. vol. 181; p. 391.
Miter-box. A. F. Schade. No. 1,042,976; Oct. 29; Gaz. vol. 183; p. 1249.
Miter-box. H. Leger. No. 1,046,613; Dec. 10; Gaz. vol. 185; p. 323.
Miter-box. C. H. Swenson. No. 1,047,459; Dec. 17; Gaz. vol. 185; p. 648.
Miter-box, Adjustable. O. H. Fisk. No. 1,026,086; May 14; Sp. p. 2210; Gaz. vol. 178; p. 373.
Miter-clamp. J. Orlandi. No. 1,015,336; Jan. 23; Sp. p. 4969; Gaz. vol. 174; p. 857.
Miter-clamp. T. B. Miller. No. 1,034,482; Aug. 6; Gaz. vol. 181; p. 27.
Miter-gage, Adjustable. J. M. Bley. No. 1,034,068; July 30; Gaz vol. 180; p. 1250.
Miter-machine. C. F. Deitrick. No. 1,048,447; Dec. 24; Gaz. vol. 185; p. 1013.
Mitering device. F. N. Russell and E. Clark. No. 1,038,966; Sept. 17; Gaz. vol. 182; p. 675.
Mitering-gage for corner-cutting machines. H. De Smith. No. 1,018,699; Feb. 27; Sp. p. 5488; Gaz. vol. 175; p. 951.
Mitt, Ball-catcher's. C. C. Burtt. No. 1,031,039; July 2; Gaz. vol. 180; p. 67.
Mitt, Base-ball. W. P. Whitley. No. 1,045,232; Nov. 26; Gaz. vol. 184; p. 851.
Mitt or glove, Base-ball. B. T. Rogers. No. 1,018,271; Feb. 20; Sp. p. 4506; Gaz. vol. 175; p. 774.
Mitt or glove, Swimming. T. L. Monaghan. No. 1,023,581; Apr. 16; Sp. p. 3885; Gaz. vol. 177; p. 684.
Mixer: *See* Batch-mixer; Cake-mixer; Cement-mixer; Cheese-curd mixer; Concrete-mixer; Concrete and cement mixer; Dough-mixer; Fertilizer-mixer; Fluid-mixer; Food-mixer; Gas-mixer; Gaseous-fuel mixer; Liquid-mixer; Motor-mixer; Ore-feed mixer; Rotary mixer; Shortening-mixer; Smudge-mixer; Spraying-compound mixer; Water-mixer.
Mixer. G. S. Noble. No. 1,018,629; Feb. 27; Sp. p. 5350; Gaz. vol. 175; p. 928.
Mixer. J. H. Brodie. No. 1,027,982; May 28; Sp. p. 6351; Gaz. vol. 178; p. 1090.
Mixer. R. M. Temple. No. 1,036,374; Aug. 20; Gaz. vol. 181; p. 741.
Mixer and stirrer. O. C. Nilson. No. 1,013,803; Jan. 2; Sp. p. 1561; Gaz. vol. 174; p. 248.
Mixer or beater. C. Forth. No. 1,014,382; Jan. 9; Sp. p. 2885; Gaz. vol. 174; p. 477.
Mixing apparatus. M. C. Peters. No. 1,013,612; Jan. 2; Sp. p. 1129; Gaz. vol. 174; p. 181.
Mixing device. A. J. Fritz. No. 1,016,741; Feb. 6; Sp. p. 1140; Gaz. vol. 175; p. 175.
Mixing device. I. B. White. No. 1,040,826; Oct. 8; Gaz. vol. 183; p. 423.
Mixing liquid and powdered materials, Machine for. S. A. Bigelow. No. 1,027,172; May 21; Sp. p. 4633; Gaz. vol. 178; p. 778.
Mixing-machine. J. J. Green. No. 1,019,039; Mar. 5; Sp. p. 60; Gaz. vol. 176; p. 12.
Mixing-machine. J. D. Clough. No. 1,021,301; Mar. 26; Sp. p. 4870; Gaz. vol. 176; p. 889.
Mixing-machine. C. T. Foote. No. 1,025,462; May 7; Sp. p. 792; Gaz. vol. 178; p. 124.
Mixing-machine. C. T. Foote. No. 1,025,907; May 7; Sp. p. 1789; Gaz. vol. 178; p. 275.
Mixing-machine. H. Mueller. No. 1,036,683; Aug. 27; Gaz. vol. 181; p. 878.
Mixing-machine. O. Van der Meersch. No. 1,037,810; Sept. 3; Gaz. vol. 182; p. 210.
Mixing-machine. H. U. Prindle. No. 1,039,192; Sept. 24; Gaz. vol. 182; p. 766.
Mixing-machine. N. Holman. No. 1,040,328; Oct. 8; Gaz. vol. 183; p. 251.
Mixing-machine. F. T. Arnold. No. 1,041,947; Oct. 22; Gaz. vol. 183; p. 870.
Mixing-machine. S. B. Twining. No. 1,045,916; Dec. 3; Gaz. vol. 185; p. 42.
Mixing-machine. R. Tiedtke. No. 1,048,763; Dec. 31; Gaz. vol. 185; p. 1162.
Mixing vessel. H. W. Jordan. No. 1,036,253; Aug. 20; Gaz. vol. 181; p. 699.
Model, Anatomical. C. C. Allen. No. 1,048,382; Dec. 24; Gaz. vol. 185; p. 992.
Moistener. D. H. Sloss. No. 1,032,512; July 16; Gaz. vol. 180; p. 658.
Moistener and sealer. J. N. Stacy. No. 1,018,592; Feb. 27; Sp. p. 5280; Gaz. vol. 175; p. 917.
Moistener and sealer, Envelop. D. G. Saunders, Jr. No. 1,034,933; Aug. 6; Gaz. vol. 181; p. 178.
Moistener and sealer, Envelop. W. A. Shoults. No. 1,043,366; Nov. 5; Gaz. vol. 184; p. 115.
Moistener, Envelop-. L. Ferenczy. No. 1,028,011; May 28; Sp. p. 6407; Gaz. vol. 178; p. 1099.
Moistener, Envelop-. J. F. Hambly. No. 1,040,667; Oct. 8; Gaz. vol. 183; p. 372.
Moistener, Sanitary finger-. M. S. Ellis. No. 1,035,827; Aug. 13; Gaz. vol. 181; p. 512.
Moistener, Stenographer's envelop and stamp. B. H. Dunfield. No. 1,027,406; May 28; Sp. p. 5117; Gaz. vol. 178; p. 898.
Moistening and affixing device, Stamp. H. W. Beaver. No. 1,035,846; Aug. 20; Gaz. vol. 181; p. 556.
Moistening and sealing device, Envelop. V. Kublin. No. 1,031,346; July 2; Gaz. vol. 180; p. 175.
Moistening and sealing device, Envelop. J. D. Young. No. 1,035,294; Aug. 13; Gaz. vol. 181; p. 330.
Moistening and sealing device, Envelop. T. Humphrey. No. 1,044,182; Nov. 12; Gaz. vol. 184; p. 427.
Moistening and sealing machine, Envelop. L. A. Wakefield. No. 1,043,053; Oct. 29; Gaz. vol. 183; p. 1276.
Moistening and separating stamps and the like, Apparatus for. L. Katzenstein. No. 1,016,015; Jan. 30; Sp. p. 6425; Gaz. vol. 174; p. 1118.
Moistening device, Envelop-. S. Karcmarcyk. No. 1,021,532; Mar. 26; Sp. p. 5393; Gaz. vol. 176; p. 971.
Moistening device, Envelop-. J. W. Lovejoy. No. 1,025,097; Apr. 30; Sp. p. 7200; Gaz. vol. 177; p. 1261.
Moistening device, Envelop-. J. Hammond. No. 1,027,204; May 21; Sp. p. 4705; Gaz. vol. 178; p. 790.
Moistening device, Envelop-. J. D. Young. No. 1,031,158; July 2; Gaz. vol. 180; p. 110.
Moistening device, Envelop-. A Bator. No. 1,033,520; July 23; Gaz. vol. 180; p. 1036.
Moistening device, Envelop-. D. C. Baker. No. 1,038,265; Sept. 10; Gaz. vol. 182; p. 398.
Moistening machine, Strip-. M. Himoff. No. 1,016,011; Jan. 30; Sp. p. 6416; Gaz. vol. 174; p. 1116.
Mold: *See* Ball-mold; Beer-keg mold; Bottle-blank mold; Building-block mold; Car-wheel mold; Caramel-mold; Casting-mold; Cement-mold; Cement or concrete tie mold; Ceramic-ware mold; Chimney-mold; Column-mold; Concrete-mold; Concrete-building mold; Concrete-burial-case mold; Concrete-chimney mold; Concrete-construction mold; Concrete-wall mold; Concrete-wall-construction mold; Culvert-mold; Curb and gutter mold; Curbing-mold; Dental mold; Fence-post mold; Fountain-mold; Golf-ball mold; Ingot-mold; Laundry-mold; Linotype-mold; Packing-ring mold; Permanent mold; Phonograph-record mold; Pipe-mold; Post-mold; Reversible mold; Shingle-mold; Silo-mold; Steel-mold; Tank-mold; Tooth-mold; Type-mold; Vault-mold; Vulcanizing-mold.
Mold. W. Parker and L. E. Campbell. No. 1,015,706; Jan. 23; Sp. p. 5774; Gaz. vol. 174; p. 984.
Mold. E. Pfeifer. No. 1,024,357; Apr. 23; Sp. p. 5538; Gaz. vol. 177; p. 971.
Mold. C. K. Schindhelm. No. 1,026,832; May 21; Sp. p. 3826; Gaz. vol. 178; p. 662.
Mold. G. W. Golden. No. 1,027,042; May 21; Sp. p. 4339; Gaz. vol. 178; p. 736.
Mold. E. J. Wilber. No. 1,029,095; June 11; Sp. p. 2232; Gaz. vol. 179; p. 381.
Mold. M. Dunagin. No. 1,029,474; June 18; Sp. p. 3482; Gaz. vol. 179; p. 617.
Mold. W. Binning. No. 1,030,638; June 25; Sp. p. 5807; Gaz. vol. 179; p. 995.
Mold. H. W. Strietelmeier. No. 1,030,754; June 25; Sp. p. 6091; Gaz. vol. 179; p. 1036.
Mold. F. A. Feldkamp. No. 1,031,334; July 2; Gaz. vol. 180; p. 171.
Mold. H. T. Frost. No. 1,041,991; Oct. 22; Gaz. vol. 183; p. 885.
Mold. W. J. Boyd, Sr. No. 1,043,665; Nov. 5; Gaz. vol. 184; p. 219.
Mold. F. T. Dickinson. No. 1,043,809; Nov. 12; Gaz. vol. 184; p. 299.
Mold. W. Sudekum. No. 1,046,121; Dec. 3; Gaz. vol. 185; p. 111.
Mold. J. Meinken. No. 1,047,102; Dec. 10; Gaz. vol. 185; p. 489.
Mold. F. P. Martin. No. 1,048,087; Dec. 24; Gaz. vol. 185; p. 893.
Mold apparatus. G. [illegible] Dillig. No. 1,035,425; Aug. 13; Gaz. vol. 181; p. 377.
Mold-coating. C. H. Haslett and A. A. Mentzer. No. 1,021,599; Mar. 26; Sp. p. 5526; Gaz. vol. 176; p. 992.
Mold-drying apparatus. J. A. Jones. No. 1,037,013; Aug. 27; Gaz. vol. 181; p. 988.
Mold feeder, Ingot-. E. J. Turner. No. 1,022,343; Apr. 2; Sp. p. 1234; Gaz. vol. 177; p. 197.
Mold-forming machine. T. Lund. No. 1,024,516; Apr. 30; Sp. p. 5947; Gaz. vol. 177; p. 1061.
Mold-forming machine. A. M. and B. F. Davis. No. 1,025,789; May 7; Sp. p. 1492; Gaz. vol. 178; p. 236.

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Molds and cores, Method of and apparatus for making. J. C. Bannister. No. 1,034,336; July 30; Gaz. vol. 180; p. 1342.
Molds and mold-cores, Apparatus for forming. J. F. Bryant. No. 1,021,349; Mar. 26; Sp. p. 4969; Gaz. vol. 176; p. 907.
Molds and mold-cores, Forming. J. F. Bryant. No. 1,021,348; Mar. 26; Sp. p. 4967; Gaz. vol. 176; p. 906.
Molds, Consolidating previously-mixed materials in. F. G. S. Price. No. 1,032,424; July 16; Gaz. vol. 180; p. 629.
Molds, Making. D. M. Fahnestock. No. 1,027,116; May 21; Sp. p. 4527; Gaz. vol. 178; p. 762.
Molds, Means for holding inserts in place in. H. Jones. No. 1,016,273; Feb. 6; Sp. p. 68; Gaz. vol. 175; p. 13.
Molds, Mechanism for drawing patterns from. B. D. Fuller, J. R. and T. A. Reilly. No. 1,042,780; Oct. 29; Gaz. vol. 183; p. 1183.
Molder's bench. J. M. Hudson. No. 1,020,098; Mar. 12; Sp. p. 2329; Gaz. vol. 176; p. 398.
Molder's flask. C. Morgan. No. 1,028,478; June 4; Sp. p. 923; Gaz. vol. 179; p. 138.
Molder's flask and band. J. F. Lamb. No. 1,014,761; Jan. 16; Sp. p. 3713; Gaz. vol. 174; p. 634.
Molding and grooving head. W. J. McSorley. No. 1,034,272; July 30; Gaz. vol. 180; p. 1321.
Molding and loading tool, Combined. J. R. Wilson. No. 1,031,221; July 2; Gaz. vol. 180; p. 132.
Molding apparatus. W. G. Moore. No. 1,013,303; Jan. 2; Sp. p. 481; Gaz. vol. 174; p. 75.
Molding apparatus. F. X. Leuthner. No. 1,018,668; Feb. 27; Sp. p. 5430; Gaz. vol. 175; p. 941.
Molding apparatus. F. X. Leuthner and F. Tickner. No. 1,018,669; Feb. 27; Sp. p. 5432; Gaz. vol. 175; p. 942.
Molding apparatus. M. J. Hewlett. No. 1,022,240; Apr. 2; Sp. p. 1036; Gaz. vol. 177; p. 165.
Molding apparatus. D. M. Fahnestock. No. 1,027,115; May 21; Sp. p. 4522; Gaz. vol. 178; p. 761.
Molding apparatus. D. M. Fahnestock. No. 1,027,192; May 21; Sp. p. 4672; Gaz. vol. 178; p. 785.
Molding apparatus. A. A. Pauly. No. 1,029,559; June 11; Sp. p. 3230; Gaz. vol. 179; p. 541.
Molding apparatus. A. A. Pauly. No. 1,029,560; June 11; Sp. p. 3231; Gaz. vol. 179; p. 541.
Molding apparatus. A. A. Pauly. No. 1,029,561; June 11; Sp. p. 3233; Gaz. vol. 179; p. 542.
Molding apparatus. R. R. Rust. No. 1,029,563; June 11; Sp. p. 3236; Gaz. vol. 179; p. 542.
Molding-machine. J. E. Wilcoxen. No. 1,015,463; Jan. 23; Sp. p. 5255; Gaz. vol. 174; p. 900.
Molding-machine. E. D. Misner. No. 1,015,576; Jan. 23; Sp. p. 5489; Gaz. vol. 174; p. 939.
Molding-machine. M. Schclecki and W. Chudrik. No. 1,021,633; Mar. 26; Sp. p. 5580; Gaz. vol. 176; p. 1003.
Molding-machine. H. MacKay. No. 1,021,938; Apr. 2; Sp. p. 383; Gaz. vol. 177; p. 64.
Molding-machine. K. Fritz. No. 1,023,201; Apr. 16; Sp. p. 3133; Gaz. vol. 177; p. 560.
Molding-machine. V. W. Grumman. No. 1,025,136; May 7; Sp. p. 56; Gaz. vol. 178; p. 10.
Molding-machine. L. T. Lowe. No. 1,025,579; May 7; Sp. p. 1067; Gaz. vol. 178; p. 165.
Molding-machine. J. W. Brown, Jr. No. 1,025,737; May 7; Sp. p. 1392; Gaz. vol. 178; p. 217.
Molding-machine. E. A. Pridmore. No. 1,027,066; May 21; Sp. p. 4406; Gaz. vol. 178; p. 745.
Molding-machine. E. C. Covert. No. 1,027,595; May 28; Sp. p. 5495; Gaz. vol. 178; p. 961.
Molding-machine. J. N. Battenfeld. No. 1,028,852; June 11; Sp. p. 1693; Gaz. vol. 179; p. 296.
Molding-machine. L. J. Monahan and R. Ziebell. No. 1,029,079; June 11; Sp. p. 2184; Gaz. vol. 179; p. 376.
Molding-machine. J. E. Mathys. No. 1,032,415; July 16; Gaz. vol. 180; p. 626.
Molding-machine. A. Kowalsky. No. 1,039,143; Sept. 24; Gaz. vol. 182; p. 749.
Molding-machine. A. J. Beers. No. 1,039,635; Sept. 24; Gaz. vol. 182; p. 922.
Molding-machine. L. T. Kenny. No. 1,045,411; Nov. 26; Gaz. vol. 184; p. 913.
Molding-machine. P. Brown. No. 1,048,290; Dec. 24; Gaz. vol. 185; p. 960.
Molding-machine. T. W. Hammond, Jr. No. 1,048,689; Dec. 31; Gaz. vol. 185; p. 1137.
Molding-machine. S. P. Love and J. E. Parker. No. 1,049,112; Dec. 31; Gaz. vol. 185; p. 1282.
Molding-machines, Sprue-raising mechanism for. J. W. Brown, Jr. No. 1,022,297; Apr. 2; Sp. p. 1139; Gaz. vol. 177; p. 182.
Molding machinery, Spring filler or cut-off for use in connection with. G. P. White. No. 1,041,540; Oct. 15; Gaz. vol. 183; p. 696.
Molding or casting apparatus. G. Atterbury. No. 1,047,142; Dec. 17; Gaz. vol. 185; p. 533.
Molding-press. J. A. Burleigh. No. 1,030,252; June 18; Sp. p. 4740; Gaz. vol. 179; p. 816.
Molding socket and plug. G. Brooke. No. 1,043,054; Oct. 29; Gaz. vol. 183; p. 1277.
Moldboard. C. K. Miller. No. 1,036,675; Aug. 27; Gaz. vol. 181; p. 876.
Mole-trap. J. C. Barker. No. 1,031,229; July 2; Gaz. vol. 180; p. 134.
Money-changing mechanism. C. D. Richard. No. 1,046,022; Dec. 3; Gaz. vol. 185; p. 76.
Money-holder. B. C. Maxwell. No. 1,036,873; Aug. 27; Gaz. vol. 181; p. 941.
Monkey-wrench. P. H. Burgart. No. 1,014,370; Jan. 9; Sp. p. 2860; Gaz. vol. 174; p. 473.
Monkey-wrench. W. L. Stevenson. No. 1,027,925; May 28; Sp. p. 6238; Gaz. vol. 178; p. 1071.
Monkey-wrench. S. Zoldessy. No. 1,046,709; Dec. 10; Gaz. vol. 185; p. 358.
Monochlorhydrin, Purifying. F. C. Heyer. No. 1,040,323; Oct. 8; Gaz. vol. 183; p. 249.
Monogram-panel. G. H. Line. No. 1,014,312; Jan. 9; Sp. p. 2710; Gaz. vol. 174; p. 452.
Monoplane. J. A. Goodwin. No. 1,025,085; Apr. 30; Sp. p. 7166; Gaz. vol. 177; p. 1257.
Monoplane. R. H. Haag. No. 1,025,912; May 7; Sp. p. 1799; Gaz. vol. 178; p. 277.
Monoplane. A. Desaye. No. 1,037,214; Sept. 3; Gaz. vol. 182; p. 12.
Monoplane. R. E. McBride. No. 1,041,131; Oct. 15; Gaz. vol. 183; p. 559.
Monorail and truck. F. Giordano. No. 1,048,679; Dec. 31; Gaz. vol. 185; p. 1133.
Monorail safety device. R. F. Codero. No. 1,015,140; Jan. 16; Sp. p. 4536; Gaz. vol. 174; p. 765.
Monorail switch. G. Sande. No. 1,035,244; Aug. 13; Gaz. vol. 181; p. 312.
Mooring device. O. E. Hansen. No. 1,038,746; Sept. 17; Gaz. vol. 182; p. 600.
Mop. W. B. Fuller. No. 1,025,800; May 7; Sp. p. 1516; Gaz. vol. 178; p. 239.
Mop. C. A. Channell. No. 1,041,023; Oct. 15; Gaz. vol. 183; p. 522.
Mop. W. H. Billings. No. 1,045,115; Nov. 26; Gaz. vol. 184; p. 810.
Mop. W. J. Peck. No. 1,045,173; Nov. 26; Gaz. vol. 184; p. 830.
Mop. A. T. Channell. No. 1,048,494; Dec. 31; Gaz. vol. 185; p. 1067.
Mop. W. H. Billings. No. 1,048,796; Dec. 31; Gaz. vol. 185; p. 1174.
Mop and scraper, Combination dish. L. B. Willis. No. 1,020,866; Mar. 19; Sp. p. 3971; Gaz. vol. 176; p. 692.
Mop, Dry. G. F. Bassett, M. F. Clay, and J. J. Phare. No. 1,036,542; Aug. 27; Gaz. vol. 181; p. 830.
Mop, Dusting-. C. W. Farnum. No. 1,047,021; Dec. 10; Gaz. vol. 185; p. 461.
Mop-head. F. E. Hill. No. 1,017,149; Feb. 13; Sp. p. 2052; Gaz. vol. 175; p. 352.
Mop-head. A. Ransom. No. 1,019,701; Mar. 5; Sp. p. 1506; Gaz. vol. 176; p. 233.
Mop head and wringer, Combined. I. C. Imboden. No. 1,045,032; Nov. 19; Gaz. vol. 184; p. 753.
Mop-holder. W. H. Billings. No. 1,022,816; Apr. 9; Sp. p. 2282; Gaz. vol. 177; p. 390.
Mop-holder. D. Margolius. No. 1,027,209; May 21; Sp. p. 4711; Gaz. vol. 178; p. 791.
Mop-holder. H. M. Sturgis. No. 1,030,939; July 2; Gaz. vol. 180; p. 31.
Mop-holder. F. R. Wolter. No. 1,037,703; Sept. 3; Gaz. vol. 182; p. 177.
Mop-holder. H. F. Condon. No. 1,038,090; Sept. 10; Gaz. vol. 182; p. 339.
Mop-holder. J. F. Costello. No. 1,042,202; Oct. 22; Gaz. vol. 183; p. 954.
Mop-holder. A. E. Westburg. No. 1,049,282; Dec. 31; Gaz. vol. 185; p. 1339.
Mop holder and wringer, Combined. L. Wormworth. No. 1,019,577; Mar. 5; Sp. p. 1281; Gaz. vol. 176; p. 192.
Mop holder and wringer, Combined. F. O. Tarbox. No. 1,022,982; Apr. 9; Sp. p. 2624; Gaz. vol. 177; p. 447.
Mop holder and wringer, Combined. G. O. Reshaw. No. 1,024,951; Apr. 30; Sp. p. 6907; Gaz. vol. 177; p. 1213.
Mop holder and wringer, Combined. W. Dupré. No. 1,026,625; May 14; Sp. p. 3362; Gaz. vol. 178; p. 554.
Mop holder and wringer, Combined. G. W. Purcell. No. 1,028,491; June 4; Sp. p. 945; Gaz. vol. 179; p. 142.
Mop holder and wringer, Combined. P. Fuhrer. No. 1,029,436; June 11; Sp. p. 2983; Gaz. vol. 179; p. 499.
Mop holder and wringer, Combined. M. B. McCoy. No. 1,046,829; Dec. 10; Gaz. vol. 185; p. 399.
Mop holder and wringer, Combined. J. W. Krueger. No. 1,049,242; Dec. 31; Gaz. vol. 185; p. 1325.
Mop-press. S. M. Schaefle. No. 1,019,369; Mar. 5; Sp. p. 843; Gaz. vol. 176; p. 125.
Mop, Sanitary. J. J. Phare and M. F. Clay. No. 1,028,062; May 28; Sp. p. 6516; Gaz. vol. 178; p. 1114.
Mop stick and wringer, Combined. V. C. McIntosh. No. 1,030,109; June 18; Sp. p. 4446; Gaz. vol. 179; p. 768.
Mop-wringer. W. McCloskey. No. 1,015,450; Jan. 23; Sp. p. 5211; Gaz. vol. 174; p. 896.
Mop-wringer. J. P. Morin. No. 1,024,738; Apr. 30; Sp. p. 6457; Gaz. vol. 177; p. 1138.
Mop-wringer. T. Peterson. No. 1,038,192; Sept. 10; Gaz. vol. 182; p. 372.
Mop-wringer. C. Steller and E. N. Clark. No. 1,044,101; Nov. 12; Gaz. vol. 184; p. 401.
Morris chair. C. L. Greilick. No. 1,048,306; Dec. 24; Gaz. vol. 185; p. 965.

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Mortaring device. E. P. Olson and J. T. Jackson. No. 1,033,453; July 23; Gaz. vol. 180; p. 1014.
Mortise-gage. J. W. Carlson. No. 1,045,511; Nov. 26; Gaz. vol. 184; p. 949.
Mortising, drilling, and the like machinery, Device for guarding. J. G. Austin. No. 1,036,414; Aug. 20; Gaz. vol. 181; p. 755.
Mortising-machine. G. Gerlach. No. 1,023,306; Apr. 16; Sp. p. 3337; Gaz. vol. 177; p. 596.
Mortising-machine. L. A. Sunday. No. 1,029,773; June 18; Sp. p. 3697; Gaz. vol. 179; p. 651.
Mortising-machine. J. A. and F. W. Miller. No. 1,037,288; Sept. 3; Gaz. vol. 182; p. 36.
Mortising-machine. J. Leukart. No. 1,037,939; Sept. 10; Gaz. vol. 182; p. 289.
Mortising-machine. C. Nelson. No. 1,044,904; Nov. 19; Gaz. vol. 184; p. 708.
Mortising-machine. H. Unverzagt. No. 1,048,113; Dec. 24; Gaz. vol. 185; p. 901.
Mortising-tool. R. B. and J. N. Garnett. No. 1,031,175; July 2; Gaz. vol. 180; p. 116.
Mosquito-trap. M. Graf. No. 1,044,642; Nov. 19; Gaz. vol. 184; p. 617.
Motion of machines, Device for automatically controlling the. J. G. Westbrook. No. 1,020,066; Mar. 12; Sp. p. 2254; Gaz. vol. 176; p. 388.
Motion-transmitting mechanism. J. Hadcock. No. 1,019,891; Mar. 12; Sp. p. 1895; Gaz. vol. 176; p. 330.
Motion-transmitting mechanism. A. R. Havener. No. 1,032,479; July 16; Gaz. vol. 180; p. 647.
Motor: *See* Air-motor; Convertible motor; Current-motor; Current or wave motor; Electric motor; Exhaust-motor; Explosion-motor; Explosive-motor; Fieldless motor; Flow-motor; Flue or draft motor; Fluid-motor; Fluid-pressure motor; Gravity-motor; Hydraulic motor; Hydrocarbon-motor; Ice-motor; Induction-motor; Internal-combustion motor; Liquid-motor; Mechanical motor; Oscillating motor; Oscillatory motor; Piano-player motor; Pneumatic motor; Reciprocating motor; Rotary motor; Sea-motor; Semirotary motor; Service-motor; Single-phase motor; Spring-motor; Talking-machine motor; Thermodynamic motor; Tide-motor; Vehicle-motor; Water-motor; Wave-motor; Wave and current motor; Wave and tide motor; Wave-energy motor; Weight-motor; Wind-motor.
Motor. S. J. Webb. No. 1,015,411; Jan. 23; Sp. p. 5131; Gaz. vol. 174; p. 882.
Motor. J. H. Bonsteel. No. 1,015,663; Jan. 23; Sp. p. 5674; Gaz. vol. 174; p. 970.
Motor. P. L. T. Héroult. No. 1,021,521; Mar. 26; Sp. p. 5376; Gaz. vol. 176; p. 967.
Motor. J. F. Thomas. No. 1,021,562; Mar. 26; Sp. p. 5445; Gaz. vol. 176; p. 980.
Motor. P. Anderson. No. 1,025,776; May 7; Sp. p. 1462; Gaz. vol. 178; p. 230.
Motor. A. J. Shinn. No. 1,030,337; June 25; Sp. p. 4971; Gaz. vol. 179; p. 886.
Motor. O. R. Buck. No. 1,034,193; July 30; Gaz. vol. 180; p. 1292.
Motor. R. Creuzbaur. No. 1,037,847; Sept. 3; Gaz. vol. 182; p. 221.
Motor. I. Yassenoff. No. 1,046,136; Dec. 3; Gaz. vol. 185; p. 116.
Motor. G. Wallin. No. 1,049,181; Dec. 31; Gaz. vol. 185; p. 1304.
Motor-actuating apparatus, Water-. P. Sander. No. 1,029,030; June 11; Sp. p. 2090; Gaz. vol. 179; p. 360.
Motor and traction operated implement, Combined. G. O. Helvig and E. Danielson. No. 1,023,151; Apr. 16; Sp. p. 3021; Gaz. vol. 177; p. 542.
Motor arrangement for vehicles of all kinds. T. Reuter. No. 1,046,331; Dec. 3; Gaz. vol. 185; p. 185.
Motor control. W. Naumann. No. 1,031,573; July 2; Gaz. vol. 180; p. 252.
Motor control. W. Naumann. No. 1,036,688; Aug. 27; Gaz. vol. 181; p. 879.
Motor control. R. H. McLain. No. 1,039,568; Sept. 24; Gaz. vol. 182; p. 900.
Motor control, Alternating-current-. W. B. Potter. No. 1,041,868; Oct. 22; Gaz. vol. 183; p. 844.
Motor control, Automatic. M. W. Day. No. 1,028,332; June 4; Sp. p. 580; Gaz. vol. 179; p. 87.
Motor control, Brake-actuated. H. P. Dodge. No. 1,043,002; Oct. 29; Gaz. vol. 183; p. 1258.
Motor control, Electric-. J. G. V. Lang. No. 1,025,876; May 7; Sp. p. 1691; Gaz. vol. 178; p. 264.
Motor-control system. L. J. Lingo, Jr. No. 1,016,754; Feb. 6; Sp. p. 1159; Gaz. vol. 175; p. 179.
Motor-control system. E. W. Stull. No. 1,016,794; Feb. 6; Sp. p. 1255; Gaz. vol. 175; p. 193.
Motor-control system. B. Frankenfield. No. 1,017,257; Feb. 13; Sp. p. 2292; Gaz. vol. 175; p. 389.
Motor-control system. E. W. Stull. No. 1,017,270; Feb. 13; Sp. p. 2312; Gaz. vol. 175; p. 393.
Motor-control system. A. S. Cubitt. No. 1,019,428; Mar. 5; Sp. p. 979; Gaz. vol. 176; p. 143.
Motor-control system. M. R. Hanna. No. 1,019,461; Mar. 5; Sp. p. 1052; Gaz. vol. 176; p. 154.
Motor-control system. K. F. Kingwell. No. 1,022,029; Apr. 2; Sp. p. 591; Gaz. vol. 177; p. 93.
Motor-control system. M. A. Whiting. No. 1,022,908; Apr. 9; Sp. p. 2470; Gaz. vol. 177; p. 420.
Motor-control system. T. von Zwegbergk. No. 1,022,917; Apr. 9; Sp. p. 2487; Gaz. vol. 177; p. 424.
Motor-control system. E. Krause. No. 1,025,812; May 7; Sp. p. 1539; Gaz. vol. 178; p. 244.
Motor-control system. J. A. Seede. No. 1,027,159; May 21; Sp. p. 4610; Gaz. vol. 178; p. 774.
Motor-control system. A. M. Gray. No. 1,027,415; May 28; Sp. p. 5136; Gaz. vol. 178; p. 901.
Motor-control system. H. A. Steen. No. 1,030,548; June 25; Sp. p. 5479; Gaz. vol. 179; p. 961.
Motor-control system. H. W. Cheney. No. 1,030,645; June 25; Sp. p. 5819; Gaz. vol. 179; p. 997.
Motor-control system. E. R. Carichoff. No. 1,037,433; Sept. 3; Gaz. vol. 182; p. 87.
Motor-control system. F. E. Case. No. 1,037,435; Sept. 3; Gaz. vol. 182; p. 88.
Motor-control system. R. H. McLain. No. 1,041,137; Oct. 15; Gaz. vol. 183; p. 561.
Motor-control system. E. J. Murphy and J. Eaton. No. 1,041,845; Oct. 22; Gaz. vol. 183; p. 836.
Motor-control system. C. Krämer. No. 1,042,692; Oct. 29; Gaz. vol. 183; p. 1152.
Motor-control system. C. Krämer. No. 1,042,693; Oct. 29; Gaz. vol. 183; p. 1152.
Motor-control system. K. F. Kingwell. (Reissue.) No. 13,483; Oct. 29; Gaz. vol. 183; p. 1278.
Motor-control system. J. E. Brobst. No. 1,043,799; Nov. 12; Gaz. vol. 184; p. 296.
Motor-control system. J. Eaton. No. 1,045,959; Dec. 3; Gaz. vol. 185; p. 56.
Motor-control system. J. C. Smith. No. 1,048,432; Dec. 24; Gaz. vol. 185; p. 1007.
Motor-control system, Electric-. F. Conrad. No. 1,024,557; Apr. 30; Sp. p. 6073; Gaz. vol. 177; p. 1075.
Motor-control system, Electric-. H. D. James. No. 1,024,631; Apr. 30; Sp. p. 6252; Gaz. vol. 177; p. 1100.
Motor-control system, Electric-. A. J. Horton. No. 1,027,846; May 28; Sp. p. 6024; Gaz. vol. 178; p. 1044.
Motor-controller. T. E. Barnum. No. 1,016,060; Jan. 30; Sp. p. 6526; Gaz. vol. 174; p. 1134.
Motor-controller. T. E. Barnum. No. 1,016,470; Feb. 6; Sp. p. 534; Gaz. vol. 175; p. 82.
Motor-controller. J. T. Janette. No. 1,018,765; Feb. 27; Sp. p. 5643; Gaz. vol. 175; p. 975.
Motor-controller. A. J. Horton. No. 1,019,045; Mar. 5; Sp. p. 71; Gaz. vol. 176; p. 15.
Motor-controller. T. E. Barnum. No. 1,027,796; May 28; Sp. p. 5898; Gaz. vol. 178; p. 1026.
Motor-controller. A. J. Loguin. No. 1,030,195; June 18; Sp. p. 4623; Gaz. vol. 179; p. 796.
Motor-controller, Automatic. T. D. Beintema and D. De Rooi. No. 1,015,283; Jan. 23; Sp. p. 4836; Gaz. vol. 174; p. 838.
Motor controller, Electric-. V. E. Chamberlin. No. 1,019,757; Mar. 12; Sp. p. 1629; Gaz. vol. 176; p. 284.
Motor controller, Electric-. J. R. Garner and M. R. H. Mueller. No. 1,024,984; Apr. 30; Sp. p. 6962; Gaz. vol. 177; p. 1224.
Motor controller, Electric-. J. R. Garner and M. R. H. Mueller. No. 1,024,985; Apr. 30; Sp. p. 6969; Gaz. vol. 177; p. 1224.
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Motor controller, Electric-. W. A. Paris. No. 1,037,181; Aug. 27; Gaz. vol. 181; p. 1044.
Motor-controller, Pneumatic. E. T. Turney. No. 1,016,658; Feb. 6; Sp. p. 972; Gaz. vol. 175; p. 147.
Motor-controlling apparatus. J. D. Ihlder and W. D. Lutz. No. 1,040,339; Oct. 8; Gaz. vol. 183; p. 254.
Motor-controlling apparatus, Alternating-current-. J. Dillon. No. 1,023,134; Apr. 16; Sp. p. 2983; Gaz. vol. 177; p. 537.
Motor-controlling apparatus, Electric-. J. D. Ihlder. No. 1,028,731; June 4; Sp. p. 1421; Gaz. vol. 179; p. 221.
Motor-controlling device. T. E. Barnum. No. 1,016,059; Jan. 30; Sp. p. 6521; Gaz. vol. 174; p. 1134.
Motor-controlling device. C. Sacerdoti. No. 1,019,091; Mar. 5; Sp. p. 183; Gaz. vol. 176; p. 30.
Motor-controlling device. P. Dunning. No. 1,019,439; Mar. 5; Sp. p. 1008; Gaz. vol. 176; p. 147.
Motor-controlling device. W. L. Hamilton. No. 1,032,826; July 16; Gaz. vol. 180; p. 766.
Motor-controlling device. J. T. Janette. No. 1,033,900; July 30; Gaz. vol. 180; p. 1190.
Motor-controlling device. T. W. Howell. No. 1,041,859; Oct. 22; Gaz. vol. 183; p. 840.
Motor-controlling device, Electric-. G. H. Dorgeloh. No. 1,019,436; Mar. 5; Sp. p. 999; Gaz. vol. 176; p. 146.
Motor-controlling device, Electric-. J. J. Sinclair. No. 1,037,344; Sept. 3; Gaz. vol. 182; p. 55.
Motor-controlling device, Electric-. P. H. Zimmer. No. 1,049,028; Dec. 31; Gaz. vol. 185; p. 1254.
Motor-controlling means, Electric-. J. T. Watson. No. 1,044,609; Nov. 19; Gaz. vol. 184; p. 606.
Motor-controlling mechanism. C. R. Pratt. No. 1,048,999; Dec. 31; Gaz. vol. 185; p. 1243.

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Motor-controlling mechanism for motor-vehicles. J. W. Packard No. 1,022,751; Apr. 9; Sp. p. 2152; Gaz. vol. 177; p. 368.
Motor-controlling mechanism for self-propelled vehicles. A. H. Daehler. No. 1,020,889; Mar. 19; Sp. p. 4006; Gaz. vol. 176; p. 698.
Motor-cooling system. E. Gray. No. 1,024,474; Apr. 23; Sp. p. 5817; Gaz. vol. 177; p. 1011.
Motor-cranking device. F. Homolya. No. 1,029,868; June 18; Sp. p. 3933; Gaz. vol. 179; p. 684.
Motor drive mechanism, Electric-. C. P. Banzhof. No. 1,033,519; July 23; Gaz. vol. 180; p. 1036.
Motor-driven implement. L. Horn. No. 1,044,655; Nov. 19; Gaz. vol. 184; p. 622.
Motor for bicycles and various kinds of vehicles. J. W. Hays. No. 1,019,637; Mar. 5; Sp. p. 1393; Gaz. vol. 176; p. 213.
Motor for phonographs and other purposes. J. M. Evans. No. 1,042,660; Oct. 29; Gaz. vol. 183; p. 1141.
Motor for pumps and other purposes. J. G. McDowell. No. 1,023,214; Apr. 16; Sp. p. 3157; Gaz. vol. 177; p. 565.
Motor. Four-phase, single-piston, valveless. C. N. Henriod. No. 1,029,192; June 11; Sp. p. 2428; Gaz. vol. 179; p. 414.
Motor-generators, Suspension means for. W. H. Mussey. No. 1,029,622; June 18; Sp. p. 3367; Gaz. vol. 179; p. 599.
Motor-lubricating means. D. S. Waugh. No. 1,048,010; Dec. 31; Gaz. vol. 185; p. 1247.
Motor-lubricating system. R. Huff. No. 1,024,727; Apr. 30; Sp. p. 6437; Gaz. vol. 177; p. 1135.
Motor-mechanism starting and stopping device. A. H. Welker. No. 1,032,094; July 9; Gaz. vol. 180; p. 472.
Motor-operated switch. H. W. Cheney. No. 1,028,993; June 11; Sp. p. 2014; Gaz. vol. 179; p. 347.
Motor or other vehicles in case of accident, Means for identifying. O. A. Weissenborn. No. 1,036,942; Aug. 27; Gaz. vol. 181; p. 963.
Motor or other vehicles in case of accident, Means for identifying. O. A. Weissenborn. No. 1,037,092; Aug. 27; Gaz. vol. 181; p. 1014.
Motor-propelled ball. J. G. Ayers, Jr. No. 1,033,077; July 23; Gaz. vol. 180; p. 887.
Motor-reversing gear, Internal-combustion-. G. Carels. No. 1,019,947; Mar. 12; Sp. p. 2014; Gaz. vol. 176; p. 348.
Motor-reversing mechanism. J. W. Eisenhuth. No. 1,029,430; June 11; Sp. p. 2971; Gaz. vol. 179; p. 497.
Motor-starter. G. H. Whittingham. No. 1,023,980; Apr. 23; Sp. p. 4740; Gaz. vol. 177; p. 841.
Motor-starter. C. Jewell. No. 1,035,593; Aug. 13; Gaz. vol. 181; p. 434.
Motor-starter. A. J. Charlton. No. 1,047,746; Dec. 17; Gaz. vol. 185; p. 751.
Motor-starter. M. W. Hartsock and G. Stutzman. No. 1,049,084; Dec. 31; Gaz. vol. 185; p. 1273.
Motor starter, Electric-. G. H. Whittingham. No. 1,023,979; Apr. 23; Sp. p. 4737; Gaz. vol. 177; p. 841.
Motor-starting controller. T. Varney and C. G. Tarkington. No. 1,046,688; Dec. 10; Gaz. vol. 185; p. 350.
Motor-starting device, Electric-. C. J. Anderson. No. 1,023,491; Apr. 16; Sp. p. 3700; Gaz. vol. 177; p. 655.
Motor-starting device, Electric-. M. F. Owens and A. T. Marshall. No. 1,033,117; July 23; Gaz. vol. 180; p. 901.
Motor-starting device, Explosion-. A. Clément. No. 1,047,499; Dec. 17; Gaz. vol. 185; p. 662.
Motor-starting device, Single-phase-. G. H. Dorgeloh. No. 1,019,435; Mar. 5; Sp. p. 997; Gaz. vol. 176; p. 146.
Motor-starting mechanism, Electric-. J. J. Walser. No. 1,016,460; Feb. 6; Sp. p. 512; Gaz. vol. 175; p. 79.
Motor-starting switch, Electric-. C. D. Knight. No. 1,031,650; July 2; Gaz. vol. 180; p. 278.
Motor stop device, Gravity-. R. E. Springle. No. 1,027,219; May 21; Sp. p. 4733; Gaz. vol. 178; p. 795.
Motor-supporting means, Electric-. H. M. Scheibe. No. 1,042,485; Oct. 29; Gaz. vol. 183; p. 1079.
Motor suspension. K. E. Stuart. No. 1,040,810; Oct. 8; Gaz. vol. 183; p. 418.
Motor-unloading device. R. B. Williamson. No. 1,017,939; Feb. 20; Sp. p. 3799; Gaz. vol. 175; p. 660.
Motor-vehicles, Controlling mechanism for. B. J. Patrick. No. 1,032,934; July 16; Gaz. vol. 180; p. 801.
Motor-wheel. J. N. and J. H. Johnson. No. 1,045,150; Nov. 26; Gaz. vol. 184; p. 822.
Motor-wheel for cycles. A. C. Seibak. No. 1,041,519; Oct. 15; Gaz. vol. 183; p. 689.
Motor winding, Induction-. C. W. Starker. No. 1,015,912; Jan. 30; Sp. p. 6204; Gaz. vol. 174; p. 1082.
Motor-winding mechanism. A. H. Welker. No. 1,024,237; Apr. 23; Sp. p. 5328; Gaz. vol. 177; p. 933.
Motors and the like from a distance, System for controlling electric. H. Gradenwitz, W. Vollbrecht, and H. Levzow. No. 1,039,272; Sept. 24; Gaz. vol. 182; p. 796.
Motors, Automatic self-starter for. H. H. Cutler. No. 1,043,207; Nov. 5; Gaz. vol. 184; p. 58.
Motors, Automatic starter for electric. J. B. Calderwood. No. 1,017,246; Feb. 13; Sp. p. 2268; Gaz. vol. 175; p. 386.
Motors, Automatic starting device for single-phase induction-. P. J. Ray. No. 1,024,807; Apr. 30; Sp. p. 6610; Gaz. vol. 177; p. 1163.
Motors, Centrifugal switch for alternating-current. T. Kargau. No. 1,013,780; Jan. 2; Sp. p. 1519; Gaz. vol. 174; p. 241.
Motors, Connection for regulating the speed of alternating-current commutator-. M. Schenkel. No. 1,033,474; July 23; Gaz. vol. 180; p. 1021.
Motors, Device for controlling the synchronism of two. F. E. Thormeyer. No. 1,013,331; Jan. 2; Sp. p. 539; Gaz. vol. 174; p. 86.
Motors, Driving of single-phase. K. Schnetzler. No. 1,046,500; Dec. 10; Gaz. vol. 185; p. 283.
Motors, Exhaust-silencer for explosion-. P. Fehde. No. 1,044,157; Nov. 12; Gaz. vol. 184; p. 419.
Motors, Feed-wire connection for electric. G. J. Hartmann. No. 1,031,337; July 2; Gaz. vol. 180; p. 171.
Motors, Hysteresis starting device for induction-. B. McCollum. No. 1,031,802; July 9; Gaz. vol. 180; p. 374.
Motors, Ignition apparatus for explosion-. C. F. Kettering. No. 1,037,491; Sept. 3; Gaz. vol. 182; p. 107.
Motors, Means for assembling and disassembling electric. F. L. Sessions. No. 1,043,633; Nov. 5; Gaz. vol. 184; p. 208.
Motors, Means for controlling the discharge from hydraulic. W. A. Doble. No. 1,025,611; May 7; Sp. p. 1120; Gaz. vol. 178; p. 175.
Motors, Nozzle for hydraulic. W. A. Doble. No. 1,025,252; May 7; Sp. p. 320; Gaz. vol. 178; p. 51.
Motors, Regulating electric. J. G. V. Lang. No. 1,025,877; May 7; Sp. p. 1694; Gaz. vol. 178; p. 265.
Motors, Spring-box for spring-. P. Catucci. No. 1,029,852; June 18; Sp. p. 3903; Gaz. vol. 179; p. 679.
Motors, Squirrel-cage rotor for electric. G. Dunn. No. 1,013,753; Jan. 2; Sp. p. 1464; Gaz. vol. 174; p. 231.
Motors, Variable-speed dynamic control for electric. J. D. Firmin. No. 1,023,105; Apr. 9; Sp. p. 2875; Gaz. vol. 177; p. 489.
Motors, Winding mechanism for spring-. T. J. Bounimovitsch. No. 1,040,271; Oct. 8; Gaz. vol. 183; p. 230.
Mounted roller, Adjustable. T. W. Doolittle, C. S. Winsor, and C. Vergason. No. 1,021,579; Mar. 26; Sp. p. 5486; Gaz. vol. 176; p. 986.
Mounting-bracket. R. H. Manson. No. 1,035,369; Aug. 13; Gaz. vol. 181; p. 358.
Mounting or setting. J. A. Abel. No. 1,024,048; Apr. 23; Sp. p. 4887; Gaz. vol. 177; p. 866.
Mouth-gag. E. T. Krebs. No. 1,036,497; Aug. 20; Gaz. vol. 181; p. 783.
Mouthpiece, Sanitary. W. W. Woodruff. No. 1,019,288; Mar. 5; Sp. p. 629; Gaz. vol. 176; p. 98.
Mouthpiece sanitary attachment. L. Block. No. 1,016,063; Jan. 30; Sp. p. 6536; Gaz. vol. 174; p. 1136.
Mower. J. R. Fulmer. No. 1,025,262; May 7; Sp. p. 340; Gaz. vol. 178; p. 55.
Mower. L. O. Ekrem. No. 1,027,190; May 21; Sp. p. 4668; Gaz. vol. 178; p. 785.
Mower and roller, Motor lawn. W. H. Coldwell. No. 1,048,499; Dec. 31; Gaz. vol. 185; p. 1069.
Mower attachment, Lawn-. F. A. Hudson. No. 1,025,271; May 7; Sp. p. 354; Gaz. vol. 178; p. 58.
Mower attachment, Lawn-. J. J. McMillen. No. 1,028,051; May 28; Sp. p. 6497; Gaz. vol. 178; p. 1111.
Mower dust-apron, Horse-. J. E. Phelps. No. 1,033,731; July 23; Gaz. vol. 180; p. 1105.
Mower, Field-. J. W. Stump. No. 1,042,167; Oct. 22; Gaz. vol. 183; p. 943.
Mower grass-catcher, Lawn-. E. C. Siebert. No. 1,025,593; May 7; Sp. p. 1092; Gaz. vol. 178; p. 169.
Mower grass-catcher, Lawn-. C. S. Bonham. No. 1,029,527; June 11; Sp. p. 3152; Gaz. vol. 179; p. 529.
Mower, Lawn-. G. W. Klock. No. 1,013,182; Jan. 2; Sp. p. 183; Gaz. vol. 174; p. 32.
Mower, Lawn-. C. W. Felker. No. 1,018,487; Feb. 27; Sp. p. 5001; Gaz. vol. 175; p. 879.
Mower, Lawn-. J. Edmunds. No. 1,026,204; May 14; Sp. p. 2463; Gaz. vol. 178; p. 413.
Mower, Lawn-. K. Ruch. No. 1,028,063; May 28; Sp. p. 6518; Gaz. vol. 178; p. 1115.
Mower, Lawn-. L. Brown and J. M. Lontz. No. 1,031,417; July 2; Gaz. vol. 180; p. 199.
Mower, Lawn-. W. E. Graham. No. 1,036,608; Aug. 27; Gaz. vol. 181; p. 854.
Mower, Lawn-. J. H. and J. L. Auble. No. 1,039,475; Sept. 24; Gaz. vol. 182; p. 866.
Mower, Lawn-. W. H. Coldwell. No. 1,039,490; Sept. 24; Gaz. vol. 182; p. 871.
Mower, Lawn-. H. R. Lounsbery, Jr. No. 1,041,124; Oct. 15; Gaz. vol. 183; p. 556.
Mower, Lawn-. J. W. Bonham. No. 1,042,880; Oct. 29; Gaz. vol. 183; p. 1217.
Mower, Lawn-. W. H. Coldwell. No. 1,043,507; Nov. 5; Gaz. vol. 184; p. 166.
Mower, Lawn-. A. C. Bond. No. 1,044,735; Nov. 19; Gaz. vol. 184; p. 650.
Mower, Lawn-. L. A. Franke. No. 1,047,194; Dec. 17; Gaz. vol. 185; p. 552.
Mower, Lawn-. G. Gerritz. No. 1,048,404; Dec. 24; Gaz. vol. 185; p. 998.

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Mower, Lawn-. M. A. Stewart. No. 1,048,908; Dec. 31; Gaz. vol. 185; p. 1211.
Mower, Lawn-. M. Banowetz. No. 1,049,194; Dec. 31; Gaz. vol. 185; p. 1309.
Mower, Motor lawn-. W. H. Coldwell. No. 1,048,498; Dec. 31; Gaz. vol. 185; p. 1069.
Mower, Power-driven lawn-. H. S. Mustin. No. 1,014,663; Jan. 16; Sp. p. 3508; Gaz. vol. 174; p. 601.
Mowers, Grass-collector for lawn-. W. Boss. No. 1,039,355; Sept. 24; Gaz. vol. 182; p. 825.
Mowing-machine. T. J. Lann. No. 1,013,787; Jan. 2; Sp. p. 1527; Gaz. vol. 174; p. 243.
Mowing-machine. J. Sulliger. No. 1,016,586; Feb. 6; Sp. p. 819; Gaz. vol. 175; p. 122.
Mowing-machine. W. P. Anthony. No. 1,022,291; Apr. 2; Sp. p. 1130; Gaz. vol. 177; p. 180.
Mowing-machine. W. P. Anthony. No. 1,022,292; Apr. 2; Sp. p. 1131; Gaz. vol. 177; p. 181.
Mowing-machine. O. Czaran. No. 1,027,643; May 28; Sp. p. 5581; Gaz. vol. 178; p. 976.
Mowing-machine. W. E. Martin. No. 1,027,745; May 28; Sp. p. 5790; Gaz. vol. 178; p. 1009.
Mowing-machine. M. E. Thomas. No. 1,030,689; June 25; Sp. p. 5924; Gaz. vol. 179; p. 1012.
Mowing-machine. O. Putzke. No. 1,036,145; Aug. 20; Gaz. vol. 181; p. 660.
Mowing-machine. C. E. Peterson. No. 1,039,436; Sept. 24; Gaz. vol. 182; p. 852.
Mowing-machine. N. Madsen. No. 1,041,312; Oct. 15; Gaz. vol. 183; p. 621.
Mowing-machine. J. Stankus. No. 1,045,627; Nov. 26; Gaz. vol. 184; p. 991.
Mowing-machine. A. J. Anderson. No. 1,049,190; Dec. 31; Gaz. vol. 185; p. 1308.
Mowing-machine and harvester reel attachment. I. C. Benson. No. 1,026,486; May 14; Sp. p. 3080; Gaz. vol. 178; p. 508.
Mowing-machine attachment. A. H. Eckardt. No. 1,026,738; May 21; Sp. p. 3626; Gaz. vol. 178; p. 630.
Mowing-machine attachment. G. M. Crowder. No. 1,027,463; May 28; Sp. p. 5224; Gaz. vol. 178; p. 916.
Mowing-machine crank-head. L. R. Whiteside. No. 1,035,667; Aug. 13; Gaz. vol. 181; p. 458.
Mowing-machine cutter-bar. C. Falk. No. 1,032,195; July 9; Gaz. vol. 180; p. 506.
Mowing-machine elevating and bunching attachment. R. Walker. No. 1,021,023; Mar. 26; Sp. p. 4284; Gaz. vol. 176; p. 796.
Mowing-machine lifting attachment. F. Pinckert. No. 1,048,731; Dec. 31; Gaz. vol. 185; p. 1150.
Mowing-machine reaping attachment. A. C. Christensen. No. 1,025,862; May 7; Sp. p. 1655; Gaz. vol. 178; p. 260.
Mowing-machine tedder attachment. C. L. Tisch. No. 1,016,655; Feb. 6; Sp. p. 963; Gaz. vol. 175; p. 146.
Mowing-machine tedder attachment. S. M. Martin. No. 1,047,099; Dec. 10; Gaz. vol. 185; p. 488.
Mowing-machine windrow attachment. P. A. Earles. No. 1,020,810; Mar. 19; Sp. p. 3838; Gaz. vol. 176; p. 672.
Mowing-machines, Vertical cutter attachment for. O. Kluge. No. 1,015,806; Jan. 30; Sp. p. 5975; Gaz. vol. 174; p. 1045.
Muck-shovel. N. Ebbley. No. 1,029,799; June 18; Sp. p. 3758; Gaz. vol. 179; p. 662.
Mud-guard. N. H. Schickel. No. 1,048,894; Dec. 31; Gaz. vol. 185; p. 1207.
Mud-guard fastener. A. S. Hall. No. 1,024,934; Apr. 30; Sp. p. 6873; Gaz. vol. 177; p. 1207.
Mud-guard support. E. Miller. No. 1,024,644; Apr. 30; Sp. p. 6274; Gaz. vol. 177; p. 1104.
Muffler. D. D. Helder. No. 1,015,955; Jan. 30; Sp. p. 6294; Gaz. vol. 174; p. 1095.
Muffler. J. T. Gilmer. No. 1,018,044; Feb. 20; Sp. p. 4026; Gaz. vol. 175; p. 696.
Muffler. H. H. Larkins. No. 1,021,254; Mar. 26; Sp. p. 4780; Gaz. vol. 176; p. 872.
Muffler. E. D. Lewis. No. 1,024,688; Apr. 30; Sp. p. 6363; Gaz vol. 177; p. 1121.
Muffler. S. W. Forney. No. 1,027,469; May 28; Sp. p. 5237; Gaz. vol. 178; p. 919.
Muffler. J. M. Michaelson. No. 1,038,931; Sept. 17; Gaz. vol. 182; p. 664.
Muffler. G. Cormack. No. 1,040,628; Oct. 8; Gaz. vol. 183; p. 356.
Muffler. R. S. Strahan. No. 1,041,190; Oct. 15; Gaz. vol. 183; p. 579.
Muffler. F. B. Herriot. No. 1,042,347; Oct. 22; Gaz. vol. 183; p. 1002.
Muffler. V. Oldberg. No. 1,043,966; Nov. 12; Gaz. vol. 184; p. 355.
Muffler. N. M. Matula. No. 1,045,419; Nov. 26; Gaz. vol. 184; p. 916.
Muffler. J. H. Sames. No. 1,045,614; Nov. 26; Gaz. vol. 184; p. 987.
Muffler. E. Bivert. No. 1,045,936; Dec. 3; Gaz. vol. 185; p. 48.
Muffler. V. B. Still. No. 1,048,435; Dec. 24; Gaz. vol. 185; p. 1008.
Muffler cut-out. C. W. Stryker. No. 1,027,929; May 28; Sp. p. 6241; Gaz. vol. 178; p. 1072.
Muffler, Exhaust-. G. F. Swain. No. 1,020,163; Mar. 12; Sp. p. 2465; Gaz. vol. 176; p. 420.
Muffler, Exhaust-. J. Hall. No. 1,023,644; Apr. 16; Sp. p. 4011; Gaz. vol. 177; p. 704.
Muffler, Exhaust-. A. G. Snyder. No. 1,024,703; Apr. 30; Sp. p. 6389; Gaz. vol. 177; p. 1126.
Muffler, Exhaust-. A. G. Snyder. No. 1,028,847; June 4; Sp. p. 1675; Gaz. vol. 179; p. 261.
Mufflers, Cut-out for. G. C. Ward. No. 1,037,378; Sept. 3; Gaz. vol. 182; p. 68.
Muffling device. W. L. Tobey. No. 1,048,111; Dec. 24; Gaz. vol. 185; p. 900.
Multicoloring apparatus. J. V. Lengerke and A. von Beust. No. 1,022,956; Apr. 9; Sp. p. 2578; Gaz. vol. 177; p. 438.
Multiplane. C. Peterson. No. 1,043,969; Nov. 12; Gaz. vol. 184; p. 357.
Multiple drill. W. Lane. No. 1,020,359; Mar. 12; Sp. p. 2851; Gaz. vol. 176; p. 483.
Multiple-spindle drill. C. K. Lassiter and F. E. Bocorselski. No. 1,027,347; May 21; Sp. p. 4977; Gaz. vol. 178; p. 839.
Multithrow switch. G. W. Hart. No. 1,014,300; Jan. 9; Sp. p. 2684; Gaz. vol. 174; p. 448.
Music and masters, Machine for rectifying perforated. E. G. Clark. No. 1,035,154; Aug. 13; Gaz. vol. 181; p. 281.
Music, Apparatus for automatically recording. C. W. Nyström. No. 1,018,982; Feb. 27; Sp. p. 6105; Gaz. vol. 175; p. 1049.
Music, Automatic device for turning. C. Dalboni and J. Macario. No. 1,032,817; July 16; Gaz. vol. 180; p. 763.
Music-bench. J. Peterson. No. 1,020,777; Mar. 19; Sp. p. 3779; Gaz. vol. 176; p. 662.
Music-box, Adjustable. R. W. Pain. No. 1,021,471; Mar. 26; Sp. p. 5268; Gaz. vol. 176; p. 950.
Music-boxes, Changeable-pin disk for mechanical. H. Graf. No. 1,027,245; May 21; Sp. p. 4780; Gaz. vol. 178; p. 805.
Music by electromagnetic waves, Transmission of. L. De Forest. No. 1,025,908; May 7; Sp. p. 1791; Gaz. vol. 178; p. 275.
Music-clip. T. Just. No. 1,016,274; Feb. 6; Sp. p. 71; Gaz. vol. 175; p. 14.
Music-filing cabinet. G. C. Geraty. No. 1,033,793; July 30; Gaz. vol. 180; p. 1151.
Music-holder. E. J. Babbitt. No. 1,047,879; Dec. 17; Gaz. vol. 185; p. 795.
Music-indicator. C. H. Hartman. No. 1,045,021; Nov. 19; Gaz. vol. 184; p. 749.
Music-leaf holder and clamp. O. B. Willi. No. 1,023,403; Apr. 16; Sp. p. 3529; Gaz. vol. 177; p. 628.
Music-leaf holder and turner. H. R. Kimbler. No. 1,034,916; Aug. 6; Gaz. vol. 181; p. 172.
Music-leaf turner. B. C. Ellersick. No. 1,013,284; Jan. 2; Sp. p. 425; Gaz. vol. 174; p. 69.
Music-leaf turner. F. H. Post. No. 1,014,173; Jan. 9; Sp. p. 2401; Gaz. vol. 174; p. 402.
Music-leaf turner. B. F. Souther. No. 1,015,092; Jan. 16; Sp. p. 4446; Gaz. vol. 174; p. 748.
Music-leaf turner. J. A. Bentz. No. 1,015,127; Jan. 16; Sp. p. 4515; Gaz. vol. 174; p. 760.
Music-leaf turner. P. Folan. No. 1,016,002; Jan. 30; Sp. p. 6397; Gaz. vol. 174; p. 1113.
Music-leaf turner. J. Leonard and N. J. Smith. No. 1,017,157; Feb. 13; Sp. p. 2065; Gaz. vol. 175; p. 355.
Music-leaf turner. A. J. Kuss. No. 1,019,492; Mar. 5; Sp. p. 1128; Gaz. vol. 176; p. 165.
Music-leaf turner. E. Meier. No. 1,021,940; Apr. 2; Sp. p. 388; Gaz. vol. 177; p. 64.
Music-leaf turner. H. H. Timmons and E. L. Smith. No. 1,024,916; Apr. 30; Sp. p. 6839; Gaz. vol. 177; p. 1201.
Music-leaf turner. S. Hausler. No. 1,026,950; May 21; Sp. p. 4133; Gaz. vol. 178; p. 704.
Music-leaf turner. T. F. Larkins. No. 1,027,346; May 21; Sp. p. 4976; Gaz. vol. 178; p. 838.
Music-leaf turner. J. B. Rice. No. 1,032,429; July 16; Gaz vol. 180; p. 631.
Music-leaf turner. C. H. Barnett. No. 1,033,656; July 23; Gaz. vol. 180; p. 1081.
Music-leaf turner. R. Blank. No. 1,035,773; Aug. 13; Gaz. vol. 181; p. 493.
Music-leaf turner. W. and C. M. Borneman. No. 1,035,774; Aug. 13; Gaz. vol. 181; p. 494.
Music-leaf turner. O. I. Searles. No. 1,036,917; Aug. 27; Gaz. vol. 181; p. 954.
Music-leaf turner. S. J. Cole. No. 1,036,963; Aug. 27; Gaz. vol. 181; p. 970.
Music-leaf turner. S. D. Case. No. 1,039,696; Oct. 1; Gaz. vol. 183; p. 7.
Music-leaf turner. G. E. Jones. No. 1,040,209; Oct. 1; Gaz. vol. 183; p. 181.
Music-leaf turner. W. L. Strong. No. 1,040,454; Oct. 8; Gaz. vol. 183; p. 293.
Music-leaf turner. E. I. Cox. No. 1,041,600; Oct. 15; Gaz. vol. 183; p. 713.
Music-leaf turner. C. E. Jeter. No. 1,043,840; Nov. 12; Gaz. vol. 184; p. 310.
Music-leaf turner. S. Bachrach. No. 1,045,247; Nov. 26; Gaz. vol. 184; p. 857.
Music-leaf turner and holder. K. S. Asland. No. 1,038,818; Sept. 17; Gaz. vol. 182; p. 625.

Alphabetical list of inventions—Continued.

Music-lyre. J. E. Hawley. No. 1,041,277; Oct. 15; Gaz. vol. 183; p. 609.
Music, Machine for making perforated. E. W. Myers. No. 1,021,327; Mar. 26; Sp. p. 4919; Gaz. vol. 176; p. 899.
Music-perforating machine. E. W. Myers. No. 1,046,322; Dec. 3; Gaz. vol. 185; p. 182.
Music-players, Expression-controlling mechanism for. A. F. Hauss. No. 1,046,184; Dec. 3; Gaz. vol. 185; p. 132.
Music-players, Means for controlling the expression of pneumatic. R. Bukowsky. No. 1,047,494; Dec. 17; Gaz. vol. 185; p. 660.
Music-rack. J. Kugel. No. 1,013,784; Jan. 2; Sp. p. 1524; Gaz. vol. 174; p. 242.
Music-rack and leaf-turner. C. S. Clizbe. No. 1,037,207; Sept. 3; Gaz. vol. 182; p. 10.
Music-recorder. G. B. Cirigliano. No. 1,026,908; May 21; Sp. p. 4011; Gaz. vol. 178; p. 689.
Music recording and reproducing apparatus. C. W. Nyström. No. 1,046,487; Dec. 10; Gaz. vol. 185; p. 278.
Music-roll spool. G. H. Davis. No. 1,036,079; Aug. 20; Gaz. vol. 181; p. 636.
Music-roll spool, Perforated-. J. W. Starkie. No. 1,016,235; Jan. 30; Sp. p. 6859; Gaz. vol. 174; p. 1192.
Music-roll spools, Head for. P. L. Sylvester. No. 1,049,281; Dec. 31; Gaz. vol. 185; p. 1338.
Music-rolls, Box for perforated. R. C. Harris. No. 1,048,831; Dec. 31; Gaz. vol. 185; p. 1186.
Music-rolls in pneumatic players, Mechanism for actuating. W. R. Crippen. No. 1,025,126; May 7; Sp. p. 33; Gaz. vol. 178; p. 7.
Music-rolls, Spool for perforated. G. H. Davis. No. 1,034,086; July 30; Gaz. vol. 180; p. 1256.
Music-sheet. H. Pierce. (Reissue.) No. 13,464; Aug. 27; Gaz. vol. 181; p. 1048.
Music-sheet guide. W. R. Crippen. No. 1,025,184; May 7; Sp. p. 165; Gaz. vol. 178; p. 28.
Music-sheet-guiding device. J. O'Connor. No. 1,041,860; Oct. 22; Gaz. vol. 183; p. 841.
Music-sheet perforator. A. W. Stonestreet. No. 1,033,633; July 23; Gaz. vol. 180; p. 1074.
Music-sheet turner. M. J. Ryan. No. 1,038,662; Sept. 17; Gaz. vol. 182; p. 570.
Music-sheet-turning device. J. Pfarrhofer. No. 1,028,270; June 4; Sp. p. 455; Gaz. vol. 179; p. 66.
Music-sheets, Adjusting mechanism for rolls or spools for perforated. O. Nelson. No. 1,039,066; Sept. 17; Gaz. vol. 182; p. 704.
Music-sheets, Machine for making perforated. G. B. Kelly. No. 1,021,049; Mar. 26; Sp. p. 4344; Gaz. vol. 176; p. 806.
Music-sheets, Machine for perforating. J. F. Kelly. No. 1,028,361; June 4; Sp. p. 655; Gaz. vol. 179; p. 98.
Music-spool head. W. S. Pain and F. L. Wood. No. 1,016,229; Jan. 30; Sp. p. 6848; Gaz. vol. 174; p. 1190.
Music-stand. W. N. Anderson. No. 1,013,718; Jan. 2; Sp. p. 1387; Gaz. vol. 174; p. 217.
Music stand and holder and carrying-case for the same, Combined. D. E. Force. No. 1,014,381; Jan. 9; Sp. p. 2883; Gaz. vol. 174; p. 477.
Music turner, Sheet-. P. G. McCollam. No. 1,015,574; Jan. 23; Sp. p. 5483; Gaz. vol. 174; p. 934.
Music turner, Sheet-. G. F. Burmeister. No. 1,049,047; Dec. 31; Gaz. vol. 185; p. 1261.
Musical blocks. S. I. J. Wolf. No. 1,039,347; Sept. 24; Gaz. vol. 182; p. 822.
Musical chart. A. J. French, S. A. McKelvy, and J. W. Scroggs. No. 1,017,045; Feb. 13; Sp. p. 1810; Gaz. vol. 175; p. 314.
Musical instruction, Game for. E. A. Bettin. No. 1,014,936; Jan. 16; Sp. p. 4127; Gaz. vol. 174; p. 695.
Musical instrument. T. P. Brown. No. 1,030,715; June 25; Sp. p. 5993; Gaz. vol. 179; p. 1022.
Musical instrument. L. H. Maier. No. 1,034,811; Aug. 6; Gaz. vol. 181; p. 139.
Musical instrument. A. Zollinger. No. 1,047,871; Dec. 17; Gaz. vol. 185; p. 793.
Musical instrument, Automatic. J. Wauters. No. 1,042,732; Oct. 29; Gaz. vol. 183; p. 1166.
Musical instrument, Automatic. F. L. McCormick and A. De Kleist. No. 1,043,056; Oct. 29; Gaz. vol. 183; p. 1277.
Musical-instrument automatic modulating mechanism. P. Welin. No. 1,034,048; July 30; Gaz. vol. 180; p. 1243.
Musical instrument, Automatically-operated. J. W. Crooks. No. 1,044,027; Nov. 12; Gaz. vol. 184; p. 376.
Musical-instrument bellows. R. A. Gally. No. 1,034,098; July 30; Gaz. vol. 180; p. 1261.
Musical-instrument case. J. Mossop. No. 1,013,423; Jan. 2; Sp. p. 739; Gaz. vol. 174; p. 116.
Musical-instrument control-handle. R. A. Gally. No. 1,033,885; July 30; Gaz. vol. 180; p. 1185.
Musical-instrument door-operating device. W. F. Bayer. No. 1,015,609; Jan. 23; Sp. p. 5554; Gaz. vol. 174; p. 951.
Musical instrument, Electrical. H. R. Dicks. No. 1,037,603; Sept. 3; Gaz. vol. 182; p. 143.
Musical-instrument expression-controller. F. Grundy. No. 1,031,784; July 9; Gaz. vol. 180; p. 367.
Musical instrument, Mechanical. H. P. Ball. No. 1,043,501; Nov. 5; Gaz. vol. 184; p. 164.
Musical instrument, Mechanical. A. P. Gustafson. No. 1,047,797; Dec. 17; Gaz. vol. 185; p. 767.
Musical-instrument note-sheet. J. H. Chase. No. 1,034,420; Aug. 6; Gaz. vol. 181; p. 7.
Musical-instrument players, Adjustable multitracker for mechanical. R. W. Martin. No. 1,019,813; Mar. 12; Sp. p. 1731; Gaz. vol. 176; p. 303.
Musical instrument, Pneumatic. A. Krell. No. 1,021,785; Apr. 2; Sp. p. 62; Gaz. vol. 177; p. 13.
Musical-instrument pneumatic player. W. T. Miller. No. 1,033,438; July 23; Gaz. vol. 180; p. 1009.
Musical-instrument reed holder and protector. V. Winquist. No. 1,016,055; Jan. 30; Sp. p. 6511; Gaz. vol. 174; p. 1133.
Musical instrument, Self-playing. L. B. Doman. No. 1,038,498; Sept. 10; Gaz. vol. 182; p. 478.
Musical-instrument tone-softening device. A. Krell and P. Welin. No. 1,032,844; July 16; Gaz. vol. 180; p. 772.
Musical instrument with chart, Keyboard. C. Reichelt. No. 1,017,589; Feb. 13; Sp. p. 2969; Gaz. vol. 175; p. 501.
Musical instruments, Apparatus for mechanically operating. H. C. Coldman and C. F. Webb. No. 1,035,533; Aug. 13; Gaz. vol. 181; p. 414.
Musical instruments, Apparatus for mechanically operating. H. C. Coldman and C. F. Webb. No. 1,035,534; Aug. 13; Gaz. vol. 181; p. 414.
Musical instruments, Apparatus for playing wind. B. Samuels. No. 1,046,654; Dec. 10; Gaz. vol. 185; p. 337.
Musical instruments, Arm-rest for. H. O. Gough. No. 1,020,491; Mar. 19; Sp. p. 3136; Gaz. vol. 176; p. 565.
Musical instruments, Automatic playing attachment for. R. J. Bennett. No. 1,024,494; Apr. 30; Sp. p. 5885; Gaz. vol. 177; p. 1053.
Musical instruments, Automatic playing attachment for. R. H. Bennett. No. 1,040,261; Oct. 8; Gaz. vol. 183; p. 227.
Musical instruments, Autopneumatic playing device for. C. Warren. No. 1,014,545; Jan. 9; Sp. p. 3176; Gaz. vol. 174; p. 529.
Musical instruments, Device for centering music-rolls in. P. Wuest, Jr. No. 1,041,218; Oct. 15; Gaz. vol. 183; p. 588.
Musical instruments, Electric accenting device for pneumatic. W. M. Davis and J. Hattemer. No. 1,046,275; Dec. 3; Gaz. vol. 185; p. 166.
Musical instruments, Expression-box for autopneumatic. F. C. White. No. 1,024,110; Apr. 23; Sp. p. 5024; Gaz. vol. 177; p. 887.
Musical instruments, Expression mechanism for self-playing. O. J. Fairchild. No. 1,025,795; May 7; Sp. p. 1504; Gaz. vol. 178; p. 238.
Musical instruments, Key-changing device for wind. E. W. Schuster. No. 1,035,482; Aug. 13; Gaz. vol. 181; p. 396.
Musical instruments, Magazine-slot for coin-operated. P. Wiggen. No. 1,014,107; Jan. 9; Sp. p. 2280; Gaz. vol. 174; p. 380.
Musical instruments, Means to assist tuning pneumatically-operated. G. K. Hennig. No. 1,038,581; Sept. 17; Gaz. vol. 182; p. 541.
Musical instruments, Mechanical player for. H. C. Coldman and C. F. Webb. No. 1,035,532; Aug. 13; Gaz. vol. 181; p. 413.
Musical instruments, Paper-winding mechanism for. P. Welin. No. 1,047,598; Dec. 17; Gaz. vol. 185; p. 698.
Musical instruments, Perforated note-sheet for. G. N. McMillan. No. 1,042,706; Oct. 29; Gaz. vol. 183; p. 1157.
Musical instruments, Playing attachment for stringed. H. C. Marx. No. 1,044,553; Nov. 19; Gaz. vol. 184; p. 585.
Musical instruments, Pneumatic action for. G. P. S. Miller. No. 1,031,141; July 2; Gaz. vol. 180; p. 104.
Musical instruments, Pneumatic action for. E. T. Turney. No. 1,033,216; July 23; Gaz. vol. 180; p. 935.
Musical instruments, Pneumatic action for. E. T. Turney. No. 1,033,217; July 23; Gaz. vol. 180; p. 936.
Musical instruments, Pneumatic action for. A. De Kleist. No. 1,041,487; Oct. 15; Gaz. vol. 183; p. 678.
Musical instruments, Pneumatic action for single-system. P. Welin. No. 1,045,226; Nov. 26; Gaz. vol. 184; p. 849.
Musical instruments, Step-feed for automatic modifying devices for automatic. M. Clark. No. 1,013,862; Jan. 9; Sp. p. 1720; Gaz. vol. 174; p. 298.
Musical instruments, Tempo-governing device for self-playing. L. B. Doman. No. 1,039,660; Sept. 24; Gaz. vol. 182; p. 932.
Musical instruments, Tracker-bar for self-playing. L. B. Doman. No. 1,039,658; Sept. 24; Gaz. vol. 182; p. 931.
Musical instruments, Tracker for automatic. C. S. Burton. No. 1,033,871; July 30; Gaz. vol. 180; p. 1179.
Musical instruments, Tuning device for self-playing. J. Wauters. No. 1,014,925; Jan. 16; Sp. p. 4107; Gaz. vol. 174; p. 692.

Alphabetical list of inventions—Continued.

Musical instruments, Valve for wind. W. C. Reid. No. 1,023,330; Apr. 16; Sp. p. 3388; Gaz. vol. 177; p. 605.
Musical record. J. C. Sherman. No. 1,013,519; Jan. 2; Sp. p. 937; Gaz. vol. 174; p. 150.
Musical sounds, Method of and mechanism for producing. G. Breed. (Reissue.) No. 13,365; Jan. 23; Sp. p. 5896; Gaz. vol. 174; p. 1005.
Mustache-guard. J. H. McConnell. No. 1,042,940; Oct. 29; Gaz. vol. 183; p. 1236.
Muzzle. J. M. Milliner. No. 1,041,841; Oct. 22; Gaz. vol. 183; p. 835.
Muzzle, Animal-. B. P. Merry. No. 1,042,022; Oct. 22; Gaz. vol. 183; p. 896.
Muzzle, Colt-. H. T. Guffin. No. 1,032,478; July 16; Gaz. vol. 180; p. 647.
Nail: *See* Heel and sole nail.
Nail. S. T. Graham. No. 1,033,241; July 23; Gaz. vol. 180; p. 945.
Nail-assorting mechanism. C. C. Small. No. 1,028,972; June 11; Sp. p. 1960; Gaz. vol. 179; p. 338.
Nail-clipper. P. Catucci. No. 1,027,180; May 21; Sp. p. 4648; Gaz. vol. 178; p. 781.
Nail-driving device. F. A. Devereaux. No. 1,030,286; June 25; Sp. p. 4843; Gaz. vol. 179; p. 867.
Nail-extractor. H. E. Davis. No. 1,023,725; Apr. 16; Sp. p. 4147; Gaz. vol. 177; p. 728.
Nail feeder, Wire-. J. P. Delihanty. No. 1,026,567; May 14; Sp. p. 3235; Gaz. vol. 178; p. 535.
Nail holding and delivering apparatus. A. Sawicki. No. 1,046,497; Dec. 10; Gaz. vol. 185; p. 282.
Nail-machine header. A. E. Convers. No. 1,033,231; July 23; Gaz. vol. 180; p. 941.
Nail-package. F. B. Smith. No. 1,046,665; Dec. 10; Gaz. vol. 185; p. 341.
Nail-packing machine. J. S. Phifer. No. 1,047,984; Dec. 24; Gaz. vol. 185; p. 858.
Nail-puller and hatchet, Combined. W. F. Hobbs. No. 1,031,001; July 2; Gaz. vol. 180; p. 53.
Nail-set. J. L. Schmidt. No. 1,038,207; Sept. 10; Gaz. vol. 182; p. 377.
Nail, Shoe-. G. A. Curtis. No. 1,033,159; July 23; Gaz. vol. 180; p. 916.
Nail, Wire. S. E. Bell. No. 1,029,574; June 11; Sp. p. 3254; Gaz. vol. 179; p. 546.
Nails and pins, Machine for making wire. J. Wikschtröm. No. 1,014,732; Jan. 16; Sp. p. 3657; Gaz. vol. 174; p. 625.
Nailing cleat and strip. J. A. Topping. No. 1,048,604; Dec. 31; Gaz. vol. 185; p. 1106.
Nailing-machine. L. A. Casgrain. No. 1,017,381; Feb. 13; Sp. p. 2538; Gaz. vol. 175; p. 430.
Nailing-machine. H. W. Morgan. No. 1,020,436; Mar. 19; Sp. p. 3029; Gaz. vol. 176; p. 548.
Nailing-machine. E. M. Corcoran. No. 1,026,021; May 14; Sp p. 2019; Gaz. vol. 178; p. 349.
Nailing-machine. A. S. King. No. 1,026,679; May 21; Sp. p. 3496; Gaz. vol. 178; p. 610.
Nailing-machine. A. D. Elliott. No. 1,030,654; June 25; Sp. p. 5844; Gaz. vol. 179; p. 1001.
Nailing-machine. H. W. Morgan. No. 1,039,172; Sept. 24; Gaz. vol. 182; p. 758.
Nailing machine, Box-. E. C. Northrup. No. 1,037,299; Sept. 3; Gaz. vol. 182; p. 40.
Nailing machine, Loose-. S. A. Dobyne. No. 1,026,024; May 14; Sp. p. 2027; Gaz. vol. 178; p. 350.
Nailing machine, Loose-. J. B. Flint. No. 1,026,027; May 14; Sp. p. 2041; Gaz. vol. 178; p. 351.
Nailing machine, String-. J. B. Flint. No. 1,026,028; May 14; Sp. p. 2047; Gaz. vol. 178; p. 352.
Nailing-strip. S. M. Randolph. No. 1,021,847; Apr. 2; Sp. p. 206; Gaz. vol. 177; p. 34.
Nailing-tool, Magazine. I. J. Brown. No. 1,018,478; Feb. 27; Sp. p. 4974; Gaz. vol. 175; p. 876.
Name-holder. H. B. Cook. No. 1,039,902; Oct. 1; Gaz. vol. 183; p. 78.
Naphtha storing and pumping system. J. J. Tokheim. No. 1,040,463; Oct. 8; Gaz. vol. 183; p. 296.
Napkins, Apparatus for making sanitary. M. H. Marcus. No. 1,038,493; Sept. 10; Gaz. vol. 182; p. 476.
Napping-machine. A. Müllers. No. 1,019,515; Mar. 5; Sp. p. 1169; Gaz. vol. 176; p. 173.
Napping-machine drum. J. A. Praray and H. S. Greene. No. 1,016,174; Jan. 30; Sp. p. 6740; Gaz. vol. 174; p. 1172.
Napping-machine drum, Planetary-. H. S. Greene. No. 1,020,280; Mar. 12; Sp. p. 2709; Gaz. vol. 176; p. 459.
Napping-machine drum, Planetary. H. S. Greene. No. 1,030,657; June 25; Sp. p. 5858; Gaz. vol. 179; p. 1002.
Nasal douche. J. E. MacWilliam. No. 1,029,813; June 18; Sp. p. 3798; Gaz. vol. 179; p. 666.
Nasal expander. F. M. McConnell. No. 1,014,076; Jan. 9; Sp. p. 2208; Gaz. vol. 174; p. 369.
Nasal guard. J. W. Reddy. No. 1,044,910; Nov. 19; Gaz. vol. 184; p. 711.
Nebulizer. J. J. Holland and W. Discher. No. 1,042,556; Oct. 29; Gaz. vol. 183; p. 1103.
Neck-protector for coats. F. G. Curtis. No. 1,016,214; Jan. 30; Sp. p. 6818; Gaz. vol. 174; p. 1185.
Neckband. A. Lion. No. 1,032,554; July 16; Gaz. vol. 180; p. 672.
Neckband stretcher and shaper. J. E. Umpleby. No. 1,018,533; Feb. 27; Sp. p. 5147; Gaz. vol. 175; p. 896.
Neckbands, Making. A. Lion. No. 1,031,011; July 2; Gaz. vol. 180; p. 57.
Neckscarf. T. and F. J. Dewey. No. 1,048,393; Dec. 24; Gaz. vol. 185; p. 995.
Necktie. D. Samuels. No. 1,015,840; Jan. 30; Sp. p. 6048; Gaz. vol. 174; p. 1056.
Necktie. J. H. Carroll. No. 1,023,196; Apr. 16; Sp. p. 3125; Gaz. vol. 177; p. 559.
Necktie-fastener. W. Hodgkinson. No. 1,026,315; May 14; Sp. p. 2699; Gaz. vol. 178; p. 451.
Necktie-fastener. J. A. Soderstrom. No. 1,035,915; Aug. 20; Gaz. vol. 181; p. 580.
Necktie form and retainer. H. A. T. Griffin. No. 1,047,516; Dec. 17; Gaz. vol. 185; p. 669.
Necktie-guide. T. J. Scarff. No. 1,033,200; July 23; Gaz. vol. 180; p. 930.
Necktie-holder. C. H. Ohly. No. 1,015,506; Jan. 23; Sp. p. 5333; Gaz. vol. 174; p. 915.
Necktie-holder. C. H. Ohly. No. 1,016,357; Feb. 6; Sp. p. 267; Gaz. vol. 175; p. 42.
Necktie-holder. A. Wiegel. No. 1,022,807; Apr. 9; Sp. p. 2265; Gaz. vol. 177; p. 387.
Necktie-holder. A. A. Mathews. No. 1,037,787; Sept. 3; Gaz. vol. 182; p. 203.
Necktie holder and shield. J. Baeumle. No. 1,022,398; Apr. 9; Sp. p. 1351; Gaz. vol. 177; p. 247.
Necktie-press. M. Jonas. No. 1,021,682; Mar. 26; Sp. p. 5659; Gaz. vol. 176; p. 1018.
Necktie, Reversible double-design. A. H. Grossenbach. No. 1,044,168; Nov. 12; Gaz. vol. 184; p. 423.
Necktie-shaper, Removable. C. H. Borden. No. 1,041,418; Oct. 15; Gaz. vol. 183; p. 655.
Necktie-stretcher. A. R. Silverston. No. 1,027,006; May 21; Sp. p. 4245; Gaz. vol. 178; p. 723.
Neckties, buttons, pins, &c., Holder for. J. Macdonald. No. 1,014,499; Jan. 9; Sp. p. 3097; Gaz. vol. 174; p. 514.
Neckwear, &c., and making the same. J. H. Bentley. No. 1,034,063; July 30; Gaz. vol. 180; p. 1249.
Needle-bar-driving connection. A. A. Merritt. No. 1,041,654; Oct. 15; Gaz. vol. 183; p. 733.
Needle-making machine. P. Bohin. No. 1,042,879; Oct. 29; Gaz. vol. 183; p. 1217.
Needle-threader. M. A. Chapman. No. 1,047,169; Dec. 17; Gaz. vol. 185; p. 543.
Negative-pole plate. G. M. Howard. No. 1,034,797; Aug. 6; Gaz. vol. 181; p. 133.
Nest. A. M. Fischer. No. 1,017,960; Feb. 20; Sp. p. 3850; Gaz. vol. 175; p. 667.
Nest. W. B. Miller. No. 1,019,072; Mar. 5; Sp. p. 142; Gaz. vol. 176; p. 23.
Nest. L. W. Mittendorff. No. 1,038,627; Sept. 17; Gaz. vol. 182; p. 558.
Nest and yard, Hen's. C. F. Kroeh. No. 1,021,873; Apr. 2; Sp. p. 263; Gaz. vol. 177; p. 42.
Nest, Automatic trap-. J. E. Dustin. No. 1,024,319; Apr. 23; Sp. p. 5476; Gaz. vol. 177; p. 960.
Nest guard, Hen's-. D. W. Krebs. No. 1,044,193; Nov. 12; Gaz. vol. 184; p. 432.
Nest, Hen's. J. Muth. No. 1,017,790; Feb. 20; Sp. p. 3452; Gaz. vol. 175; p. 607.
Nest, Hen's. N. J. Solomon. No. 1,024,372; Apr. 23; Sp. p. 5562; Gaz. vol. 177; p. 975.
Nest, Hen's. C. S. Greene and L. W. Norton. No. 1,037,756; Sept. 3; Gaz. vol. 182; p. 193.
Nest, Laying-. J. H. McElroy. No. 1,014,316; Jan. 9; Sp. p. 2721; Gaz. vol. 174; p. 453.
Nest, Trap-. H. Günzel. No. 1,029,924; June 18; Sp. p. 4062; Gaz. vol. 179; p. 705.
Net, Gill-. S. J. Fox. No. 1,016,881; Feb. 6; Sp. p. 1424; Gaz. vol. 175; p. 221.
Net holder, Landing-. F. J. Sargent. No. 1,024,653; Apr. 30; Sp. p. 6289; Gaz. vol. 177; p. 1108.
Net, Resistance-. F. Schniewindt. No. 1,031,204; July 2; Gaz. vol. 180; p. 126.
Netting, Interlocked. T. Yamamoto. No. 1,026,544; May 14; Sp. p. 3186; Gaz. vol. 178; p. 527.
Nether garment. B. L. Rich. No. 1,043,031; Oct. 29; Gaz. vol. 183; p. 1269.
Neutralizing-cell and axis-indicator. C. H. Pixley. No. 1,015,269; Jan. 16; Sp. p. 4797; Gaz. vol. 174; p. 807.
Newspaper-box. N. G. Edman. No. 1,018,174; Feb. 20; Sp. p. 4322; Gaz. vol. 175; p. 742.
Newspaper-holder frame. H. Zum Felde. No. 1,040,915; Oct. 8; Gaz. vol. 183; p. 451.
Nickel and purifying and improving the same. A. J. Rossi. No. 1,020,513; Mar. 19; Sp. p. 3185; Gaz. vol. 176; p. 572.
Nickel-copper mattes, Treating. A. McKechnie and F. G. Beasley. No. 1,047,825; Dec. 17; Gaz. vol. 185; p. 777.
Nickel, Extracting. H. L. Wells. No. 1,044,316; Nov. 12; Gaz. vol. 184; p. 475.
Nickel salts and recovering the acid used, Making. H. L. Wells. No. 1,039,861; Oct. 1; Gaz. vol. 183; p. 64.
Nicotin, Means for absorbing. S. A. Reed. No. 1,028,906; June 11; Sp. p. 1824; Gaz. vol. 179; p. 317.
Nipple. F. H. Bowly. No. 1,044,737; Nov. 19; Gaz. vol. 184; p. 651.

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Nipple-cover. C. W. Ladley. No. 1,018,831; Feb. 27; Sp. p. 5780; Gaz. vol. 175; p. 998.
Nipple-holder. G. J. Thomas. No. 1,014,920; Jan. 16; Sp. p. 4083; Gaz. vol. 174; p. 690.
Nipple, Nursing-. A. H. Tatum. No. 1,045,456; Nov. 26; Gaz. vol. 184; p. 929.
Nipple, Nursing-bottle. B. S. Lacy. No. 1,031,720; July 9; Gaz. vol. 180; p. 345.
Nipple-shield. E. P. Thieringer. No. 1,032,518; July 16; Gaz. vol. 180; p. 660.
Nitrates and nitric acid, Making. O. Schönherr and J. Brode. No. 1,039,325; Sept. 24; Gaz. vol. 182; p. 815.
Nitrates, Making. C. Bosch and W. Wild. No. 1,013,984; Jan. 9; Sp. p. 2004; Gaz. vol. 174; p. 339.
Nitrates, Manufacture of alkaline and earthy-alkaline. P. A. Guye, G. Darier, and A. Van Vloten. No. 1,036,611; Aug. 27; Gaz. vol. 181; p. 855.
Nitrates, Manufacture of alkaline and earthy-alkaline. P. A. Guye, G. Darier, and A. Van Vloten. No. 1,036,833; Aug. 27; Gaz. vol. 181; p. 928.
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Nitrids, Production of. C. Bosch and A. Mittasch. No. 1,027,312; May 21; Sp. p. 4914; Gaz. vol. 178; p. 827.
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Nitrocellulose, Solvent for. W. G. Lindsay. No. 1,027,618; May 28; Sp. p. 5533; Gaz. vol. 178; p. 968.
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Nitrogen compounds, including nitrids and ammonia, Making. A. Sinding-Larsen. No. 1,042,723; Oct. 29; Gaz. vol. 183; p. 1163.
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Nitrogen compounds, Manufacturing. H. Pettibone and B. von Sholly. No. 1,042,141; Oct. 22; Gaz. vol. 183; p. 934.
Nitrogen compounds, Process of and apparatus for producing. O. Schönherr and J. Hessberger. No. 1,032,782; July 16; Gaz. vol. 180; p. 751.
Nitrogen compounds, Producing. C. E. Acker. No. 1,018,802; Feb. 27; Sp. p. 5717; Gaz. vol. 175; p. 987.
Nitrogen from the air, Obtaining substantially pure. C. Blagburn. No. 1,036,788; Aug. 27; Gaz. vol. 181; p. 912.
Nitrogen oxids, Absorbing. C. Bosch and H. Keller. No. 1,029,528; June 11; Sp. p. 3154; Gaz. vol. 179; p. 529.
Nitrogen oxids, Obtaining. W. A. Phillips. No. 1,035,732; Aug. 13; Gaz. vol. 181; p. 480.
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Nitrogenous compounds, Preparing. L. L. Summers. No. 1,013,460; Jan. 2; Sp. p. 804; Gaz. vol. 174; p. 129.
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Non-heat-conducting receptacle. A. Evensen. No. 1,018,041; Feb. 20; Sp. p. 4017; Gaz. vol. 175; p. 695.
Non-toxic suprarenal preparation. G. Zuelzer. No. 1,014,198; Jan. 9; Sp. p. 2452; Gaz. vol. 174; p. 412.
Noodle-cutter. C. E. Swartzbaugh. No. 1,024,535; Apr. 30; Sp. p. 6003; Gaz. vol. 177; p. 1068.
Nose, Apparatus for enlarging the air-passages of the. M. E. G. Gottlieb. No. 1,043,924; Nov. 12; Gaz. vol. 184; p. 340.
Nose-bag. J. W. Moir. No. 1,035,991; Aug. 20; Gaz. vol. 181; p. 604.
Nose-bag. J. Kraft. No. 1,043,708; Nov. 5; Gaz. vol. 184; p. 233.
Nose-bag for horses. E. A. Waldspurger. No. 1,017,610; Feb. 13; Sp. p. 3005; Gaz. vol. 175; p. 508.
Nose-guard. L. F. Adt. No. 1,040,097; Oct. 1; Gaz. vol. 183; p. 142.
Nose-guard. P. L. Wendell. No. 1,043,649; Nov. 5; Gaz. vol. 184; p. 214.
Nostril-distending apparatus. A. A. Barratt. No. 1,034,566; Aug. 6; Gaz. vol. 181; p. 56.
Nostril-expander. A. C. Knowlson. No. 1,034,123; July 30; Gaz. vol. 180; p. 1268.
Nostril-expanding device. A. C. Knowlson. No. 1,014,758; Jan. 16; Sp. p. 3709; Gaz. vol. 174; p. 633.
Notch-finder, Automatic. G. W. Hutchinson. No. 1,037,257; Sept. 3; Gaz. vol. 182; p. 28.
Notching-machine. J. N. Jennes. No. 1,043,705; Nov. 5; Gaz. vol. 184; p. 232.
Note-sheet guide, Perforated-. J. O'Connor. (Reissue.) No. 13,398; Apr. 2; Sp. p. 1342; Gaz. vol. 177; p. 219.
Note-sheet spool. A. A. Friestedt. No. 1,043,173; Nov. 5; Gaz. vol. 184; p. 46.
Note-sheets, Apparatus for producing perforated. F. C. White. No. 1,016,862; Feb. 6; Sp. p. 1388; Gaz. vol. 175; p. 215.
Nozzle. L. C. Bowers. (Reissue.) No. 13,366; Feb. 6; Sp. p. 1530; Gaz. vol. 175; p. 237.
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Nozzle. A. R. Clarkson. No. 1,042,323; Oct. 22; Gaz. vol. 183; p. 994.
Nozzle, Adjustable sprinkler-. W. H. Stow and N. Vickery. No. 1,033,486; July 23; Gaz. vol. 180; p. 1025.
Nozzle appliance. J. F. Moran and J. J. Mahan. No. 1,045,057; Nov. 19; Gaz. vol. 184; p. 762.
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Nozzle, Exhaust-. T. P. Webster. No. 1,031,748; July 9; Gaz. vol. 180; p. 355.
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Nozzle for disinfectant and wall-paper-removing apparatus. J. Andres. No. 1,016,197; Jan. 30; Sp. p. 6782; Gaz. vol. 174; p. 1179.
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Nozzle, Flushing-. H. Robinson. No. 1,033,195; July 23; Gaz. vol. 180; p. 929.
Nozzle-holder. G. S. Davis. No. 1,040,645; Oct. 8; Gaz. vol. 183; p. 365.
Nozzle, Hydraulic. W. A. Doble. No. 1,027,825; May 28; Sp. p. 5975; Gaz. vol. 178; p. 1037.
Nozzle, Mist-producing. R. M. Hunter. No. 1,041,798; Oct. 22; Gaz. vol. 183; p. 820.
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Nozzle, Suction-. C. L. Goughnour. No. 1,039,383; Sept. 24; Gaz. vol. 182; p. 835.
Nozzle-tip, Adjustable. C. L. Baker. No. 1,042,070; Oct. 22; Gaz. vol. 183; p. 911.
Nozzle, Water-jacketed. W. A. Clark. No. 1,031,422; July 2; Gaz. vol. 180; p. 201.
Nozzles, Governor-controlled mechanism for hydraulic. G. J. Henry, Jr. No. 1,038,133; Sept. 10; Gaz. vol. 182; p. 353.
Nozzles, Making. J. H. Taylor. No. 1,023,228; Apr. 16; Sp. p. 3179; Gaz. vol. 177; p. 569.
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Nozzles, Manufacturing. W. Horsley. No. 1,025,570; May 7; Sp. p. 1044; Gaz. vol. 178; p. 161.
Number indicator, Product-. A. T. Bolton. No. 1,021,965; Apr. 2; Sp. p. 463; Gaz. vol. 177; p. 74.
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Nut-lock. H. A. Kiene. No. 1,045,797; Nov. 26; Gaz. vol. 184; p. 1049.
Nut-lock. J. G. Baling. No. 1,046,139; Dec. 3; Gaz. vol. 185; p. 117.
Nut-lock. F. Mummelthey. No. 1,046,483; Dec. 10; Gaz. vol. 185; p. 276.
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Nut-lock. J. A. Schmitz. No. 1,046,869; Dec. 10; Gaz. vol. 185; p. 412.
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Nut-lock. J. O. Olsen and A. J. Gidlund. No. 1,047,691; Dec. 17; Gaz. vol. 185; p. 731.
Nut-lock. E. C. Church. No. 1,048,039; Dec. 24; Gaz. vol. 185; p. 876.
Nut-lock. D. C. Rowland. No. 1,048,347; Dec. 24; Gaz. vol. 185; p. 979.
Nut-lock. C. Hunter. No. 1,048,539; Dec. 31; Gaz. vol. 185; p. 1083.
Nut-lock. J Dean. No. 1,048,811; Dec. 31; Gaz. vol. 185; p. 1180.
Nut-lock. J. M. Crowell. No. 1,049,055; Dec. 31; Gaz. vol. 185; p. 1263.
Nut-lock. G. Orbin. No. 1,049,138; Dec. 31; Gaz. vol. 185; p. 1291.
Nut, Lock-. L. Beck. No. 1,017,371; Feb. 13; Sp. p. 2524; Gaz. vol. 175; p. 427.
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Nut, Lock-. H. E. Taft. No. 1,019,379; Mar. 5; Sp. p. 879; Gaz. vol. 176; p. 129.
Nut, Lock-. H. T. Battin. No. 1,020,178; Mar. 12; Sp. p. 2498; Gaz. vol. 176; p. 426.
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Nut, Lock-. A. J. Threm. No. 1,024,427; Apr. 23; Sp. p. 5706; Gaz. vol. 177; p. 993.
Nut, Lock-. J. L. Larrad. No. 1,025,702; May 7; Sp. p. 1316; Gaz. vol. 178; p. 205.
Nut, Lock-. J. R. Oden. No. 1,025,825; May 7; Sp. p. 1570; Gaz. vol. 178; p. 248.
Nut, Lock-. G. O. Douthit. No. 1,030,464; June 25; Sp. p. 5237; Gaz. vol. 179; p. 932.
Nut, Lock-. G. A. Humason. No. 1,033,759; July 23; Gaz. vol. 180; p. 1113.
Nut, Lock-. W. F. Bonness. No. 1,033,778; July 30; Gaz. vol. 180; p. 1146.
Nut, Lock-. J. R. Schrader. No. 1,034,371; July 30; Gaz. vol. 180; p. 1355.
Nut, Lock-. J. B. Cullen. No. 1,036,803; Aug. 27; Gaz. vol. 181; p. 917.
Nut, Lock-. J. J. Farrell. No. 1,039,916; Oct. 1; Gaz. vol. 183; p. 82.
Nut, Lock-. S. G. Meeker. No. 1,045,423; Nov. 26; Gaz. vol. 184; p. 917.
Nut, Lock-. J. B. Young. No. 1,047,870; Dec. 17; Gaz. vol. 185; p. 792.
Nut-lock and releasing device therefor. A. H. J. Miller. No. 1,019,686; Mar. 5; Sp. p. 1482; Gaz. vol. 176; p. 229.
Nut, Locking-. D. O. Ward. No. 1,041,920; Oct. 22; Gaz. vol. 183; p. 862.
Nut-locking device. W. F. Morgan. No. 1,015,059; Jan. 16; Sp. p. 4389; Gaz. vol. 174; p. 737.
Nut-locking device. F. M. Fundis. No. 1,017,401; Feb. 13; Sp. p. 2590; Gaz. vol. 175; p. 438.
Nut-locking device. J. Steele. No. 1,021,559; Mar. 26; Sp. p. 5440; Gaz. vol. 176; p. 979.
Nut-locking device. R. B. Allender. No. 1,022,810; Apr. 9; Sp. p. 2269; Gaz. vol. 177; p. 388.
Nut-locking device. P. W. Stein. No. 1,024,291; Apr. 23; Sp. p. 5428; Gaz. vol. 177; p. 951.
Nut-locking device. J. H. and E. W. Bullard. No. 1,028,859; June 11; Sp. p. 1708; Gaz. vol. 179; p. 299.
Nut-locking device. G. Mathews. No. 1,030,106; June 18; Sp. p. 4441; Gaz. vol. 179; p. 767.
Nut-locking tool. W. M. Jenkins and E. R. Ward. No. 1,020,040; Mar. 12; Sp. p. 2201; Gaz. vol. 176; p. 379.
Nut-locking washer. W. P. and S. G. Thomson. No. 1,016,798; Feb. 6; Sp. p. 1265; Gaz. vol. 175; p. 194.
Nut-locking washer. J. Cookerley. No. 1,038,528; Sept. 17; Gaz. vol. 182; p. 523.
Nut-machine. F. Lackner. No. 1,039,145; Sept. 24; Gaz. vol. 182; p. 750.
Nut-rotating device. W. C. Caswell. No. 1,020,964; Mar. 26; Sp. p. 4169; Gaz. vol. 176; p. 775.
Nut, Self-locking. F. Moore. No. 1,022,201; Apr. 2; Sp. p. 954; Gaz. vol. 177; p. 152.
Nut, Sheet-metal thumb-. H. F. Larava. No. 1,044,791; Nov. 19; Gaz. vol. 184; p. 671.
Nut-shell-slitting machine. J. E. Emery and D. E. Hunter. No. 1,019,031; Mar. 5; Sp. p. 32; Gaz. vol. 176; p. 9.
Nut-splitter. P. Nelson. No. 1,037,968; Sept. 10; Gaz. vol. 182; p. 300.
Nut-tap. O. A. Smith. No. 1,033,836; July 30; Gaz. vol. 180; p. 1167.
Nut-tapping machine. C. Baerwalde. No. 1,028,526; June 4; Sp. p. 1010; Gaz. vol. 179; p. 154.
Nut-tapping machine. G. H. Ridlon. No. 1,043,462; Nov. 5; Gaz. vol. 184; p. 150.
Nut, Toggle-. J. Kennedy. No. 1,036,858; Aug. 27; Gaz. vol. 181; p. 937.
Nut wrench, Axle-. W. C. Kliber. No. 1,048,707; Dec. 31; Gaz. vol. 185; p. 1143.
Nuts and bolts, Locking-washer for. J. D. Prince. No. 1,043,721; Nov. 5; Gaz. vol. 184; p. 238.
Nuts, Treating. W. R. White. No. 1,016,863; Feb. 6; Sp. p. 1391; Gaz. vol. 175; p. 215.
Nutcracker. W. Kwiatkosky. No. 1,017,424; Feb. 13; Sp. p. 2643; Gaz. vol. 175; p. 447.
Nutcracker. A. M. Carlsen. No. 1,030,805; June 25; Sp. p. 6246; Gaz. vol. 179; p. 1054.
Nutcracker. J. Stugner. No. 1,033,487; July 23; Gaz. vol. 180; p. 1026.
Nutcracker. F. W. Moser. No. 1,037,966; Sept. 10; Gaz. vol. 182; p. 299.
Nutcracker. S. Flis. No. 1,044,448; Nov. 12; Gaz. vol. 184; p. 518.
Nutritive and flavoring substance and making same. K. Ikeda and S. Suzuki. No. 1,035,591; Aug. 13; Gaz. vol. 181; p. 433.
Nutritive material for both animal and vegetable life, Manufacture of. M. S. Greenbaum. No. 1,020,091; Mar. 12; Sp. p. 2307; Gaz. vol. 176; p. 396.
Oar. T. Baumert. No. 1,014,281; Jan. 9; Sp. p. 2648; Gaz. vol. 174; p. 441.
Oar. E. E. Johnson. No. 1,034,462; Aug. 6; Gaz. vol. 181; p. 20.
Oar, Bow-facing. A. I. Mencher. No. 1,033,720; July 23; Gaz. vol. 180; p. 1101.
Oar, Bow-facing D. Duhl. No. 1,034,431; Aug. 6; Gaz. vol. 181; p. 11.
Oar-lock. C. L. Keddy. No. 1,021,721; Mar. 26; Sp. p. 5742; Gaz. vol. 176; p. 1031.
Oar-lock. J. Campbell. No. 1,026,654; May 21; Sp. p. 3447; Gaz. vol. 178; p. 601.
Oar-lock. W. Stephenson. No. 1,042,289; Oct. 22; Gaz. vol. 183; p. 983.
Oar or the like joint. J. W. Griffinberg. No. 1,036,222; Aug. 20; Gaz. vol. 181; p. 689.
Observation-chair and extension-support. J. W. Patterson. No 1,029,821; June 18; Sp. p. 3818; Gaz. vol. 179; p. 669.
Observation device. F. W. Walquist. No. 1,042,730; Oct. 29; Gaz. vol. 183; p. 1165.
Obstetrical anesthetic-machine. A. E. Guedel. No. 1,045,140; Nov. 26; Gaz. vol. 184; p. 818.
Obstetrical appliance. W. H. Eblen. No. 1,031,841; July 9; Gaz. vol. 180; p. 387.
Obstetrical device. J. Stöger. No. 1,019,099; Mar. 5; Sp. p. 200; Gaz. vol. 176; p. 32.
Obstetrical device. J. Stöger. No. 1,029,034; June 11; Sp. p. 2096; Gaz. vol. 179; p. 361.
Obstetrical pad. J. D. Robertson. No. 1,021,891; Apr. 2; Sp. p. 298; Gaz. vol. 177; p. 49.
Obtunder. J. B. Sapp. No. 1,027,216; May 21; Sp. p. 4727; Gaz. vol. 178; p. 794.
Odometer. J. B. Rhodes. No. 1,047,566; Dec. 17; Gaz. vol. 185; p. 687.
Office-indicator, Electrical. J. C. Gabel. No. 1,036,089; Aug. 20; Gaz. vol 181; p. 639.
Offset device. J. E. Miles. No. 1,016,082; Jan. 30; Sp. p. 6583; Gaz. vol. 174; p. 1143.
Offset-shoe and cast-iron offset-shoe guide. A. C. Graham. No. 1,019,712; Mar. 5; Sp. p. 1526; Gaz. vol. 176; p. 237.
Ohmmeter. T. W. Bibb. No. 1,049,040; Dec. 31; Gaz. vol. 185; p. 1258.

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Oil and gas burner, Combination. J. A. Greenert. No. 1,038,120; Sept. 10; Gaz. vol. 182; p. 348.
Oil and gas burner, Combined. A. R. Anthony. No. 1,022,649; Apr. 9; Sp. p. 1897; Gaz. vol. 177; p. 331.
Oil and steam burner. J. C. Rodgers. No. 1,033,037; July 16; Gaz. vol. 180; p. 835.
Oil and water separator. R. H. White. No. 1,032,458; July 16; Gaz. vol. 180; p. 640.
Oil, Apparatus for the separation of condensed water from lubricating-. O. Bühring. No. 1,045,811; Dec. 3; Gaz. vol. 185; p. 5.
Oil-burner. G. B. Von Boden and E. F. Ingles. No. 1,014,924; Jan. 16; Sp. p. 4106; Gaz. vol. 174; p. 691.
Oil-burner. M. L. Bulson. No. 1,014,999; Jan. 16; Sp. p. 4270; Gaz. vol. 174; p. 717.
Oil-burner. H. L. Braly. No. 1,015,288; Jan. 23; Sp. p. 4849; Gaz. vol. 174; p. 840.
Oil-burner. L. A. Thomas and A. B. Bailey. No. 1,015,410; Jan. 23; Sp. p. 5130; Gaz. vol. 174; p. 881.
Oil-burner. J. A. Daniel. No. 1,015,997; Jan. 30; Sp. p. 6388; Gaz. vol. 174; p. 1111.
Oil-burner. A. R. Kunkel. No. 1,016,018; Jan. 30; Sp. p. 6429; Gaz. vol. 174; p. 1119.
Oil-burner. H. W. Axford and J. E. Clearwater. No. 1,017,493; Feb. 13; Sp. p. 2792; Gaz. vol. 175; p. 471.
Oil-burner. W. E. Fisher. No. 1,018,893; Feb. 27; Sp. p. 5903; Gaz. vol. 175; p. 1018.
Oil-burner. M. Carrier. No. 1,019,130; Mar. 5; Sp. p. 277; Gaz. vol. 176; p. 43.
Oil-burner. F. A. Curtis. No. 1,019,306; Mar. 5; Sp. p. 676; Gaz. vol. 176; p. 105.
Oil-burner. L. M. Hennessy. No. 1,019,640; Mar. 5; Sp. p. 1399; Gaz. vol. 176; p. 214.
Oil-burner. W. T. Casebolt. No. 1,020,024; Mar. 12; Sp. p. 2167; Gaz. vol. 176; p. 373.
Oil-burner. G. E. Clapp. No. 1,020,265; Mar. 12; Sp. p. 2670; Gaz. vol. 176; p. 454.
Oil-burner. H. A. Marks. No. 1,020,616; Mar. 19; Sp. p. 3426; Gaz. vol. 176; p. 606.
Oil-burner. W. T. Wood. No. 1,020,734; Mar. 19; Sp. p. 3678; Gaz. vol. 176; p. 647.
Oil-burner. E. S. Line. No. 1,021,839; Apr. 2; Sp. p. 196; Gaz. vol. 177; p. 32.
Oil-burner. F. C. Richardson and J. T. Wood. No. 1,023,529; Apr. 16; Sp. p. 3770; Gaz. vol. 177; p. 666.
Oil-burner. W. G. Nutt. No. 1,025,013; Apr. 30; Sp. p. 7024; Gaz. vol. 177; p. 1234.
Oil-burner. H. A. and J. E. Snyder. No. 1,025,325; May 7; Sp. p. 490; Gaz. vol. 178; p. 76.
Oil-burner. F. Williams. No. 1,026,015; May 14; Sp. p. 2010; Gaz. vol. 178; p. 347.
Oil-burner. G. J. Bolduc. No. 1,026,240; May 14; Sp. p. 2540; Gaz. vol. 178; p. 426.
Oil-burner. M. A. Fesler. No. 1,026,664; May 21; Sp. p. 3466; Gaz. vol. 178; p. 605.
Oil-burner. V. Matteson. No. 1,026,815; May 21; Sp. p. 3789; Gaz. vol. 178; p. 656.
Oil-burner. L. Fetty. No. 1,028,345; June 4; Sp. p. 615; Gaz. vol. 179; p. 92.
Oil-burner. H. T. Smith. No. 1,028,973; June 11; Sp. p. 1964; Gaz. vol. 179; p. 339.
Oil-burner. J. B. Cowper. No. 1,029,048; June 11; Sp. p. 2130; Gaz. vol. 179; p. 367.
Oil-burner. H. M. Daggett. No. 1,029,174; June 11; Sp. p. 2393; Gaz. vol. 179; p. 408.
Oil-burner. J. J. Haskin. No. 1,029,927; June 18; Sp. p. 4067; Gaz. vol. 179; p. 706.
Oil-burner. S. W. Statton. No. 1,030,211; June 18; Sp. p. 4662; Gaz. vol. 179; p. 801.
Oil-burner. R. B. McLellan. No. 1,030,419; June 25; Sp. p. 5142; Gaz. vol. 179; p. 916.
Oil-burner. E. C. Sexton and C. E. Jackson. No. 1,031,473; July 2; Gaz. vol. 180; p. 218.
Oil-burner. M. W. Vielhaber. No. 1,031,493; July 2; Gaz. vol. 180; p. 225.
Oil-burner. J. H. Grissinger. No. 1,031,845; July 9; Gaz. vol. 180; p. 388.
Oil-burner. C. L. Watson. No. 1,032,637; July 16; Gaz. vol. 180; p. 701.
Oil-burner. L. L. Griffiths. No. 1,033,068; July 16; Gaz. vol. 180; p. 847.
Oil-burner. G. R. Bair. No. 1,034,056; July 30; Gaz. vol. 180; p. 1246.
Oil-burner. J. H. T. and V. H. Mills. No. 1,035,459; Aug. 13; Gaz. vol. 181; p. 389.
Oil-burner. W. J. Vondracek and C. C. Slapnicka. No. 1,036,037; Aug. 20; Gaz. vol. 181; p. 620.
Oil-burner. H. A. Kelley. No. 1,036,638; Aug. 27; Gaz. vol. 181; p. 863.
Oil-burner. F. D. F. Walters and G. W. Latimer. No. 1,036,758; Aug. 27; Gaz. vol. 181; p. 902.
Oil-burner. F. W. Penn. No. 1,039,319; Sept. 24; Gaz. vol. 182; p. 812.
Oil-burner. W. J. McLean and J. L. McCauley. No. 1,039,569; Sept. 24; Gaz. vol. 182; p. 900.
Oil-burner. W. R. Davis and R. U. Wright. No. 1,041,246; Oct. 15; Gaz. vol. 183; p. 598.
Oil-burner. S. B. Sare. No. 1,041,517; Oct. 15; Gaz. vol. 183; p. 688.
Oil-burner. B. R. Briles. No. 1,041,732; Oct. 22; Gaz. vol. 183; p. 795.
Oil-burner. H. Ludwick. No. 1,042,454; Oct. 29; Gaz. vol. 183; p. 1068.
Oil-burner. E. Lanfredi. No. 1,042,930; Oct. 29; Gaz. vol. 183; p. 1234.
Oil-burner. S. B. Tainter and W. H. Kelly. No. 1,044,104; Nov. 12; Gaz. vol. 184; p. 402.
Oil-burner. J. B. Wood and J. C. Julian. No. 1,044,722; Nov. 19; Gaz. vol. 184; p. 645.
Oil-burner. W. R. Jeavons. No. 1,045,408; Nov. 26; Gaz. vol. 184; p. 911.
Oil-burner. E. W. Thomas. No. 1,045,457; Nov. 26; Gaz. vol. 184; p. 930.
Oil-burner. E. A. Hodge. No. 1,047,127; Dec. 10; Gaz. vol. 185; p. 499.
Oil-burner. A. J. Blackford. No. 1,047,884; Dec. 17; Gaz. vol. 185; p. 797.
Oil-burner. S. C. Hemphill and H. V. Welch. No. 1,048,310; Dec. 24; Gaz. vol. 185; p. 967.
Oil-burner. L. E. Ambrose. No. 1,048,478; Dec. 31; Gaz. vol. 185; p. 1062.
Oil-burner, Centrifugal. T. Morrin. No. 1,025,153; May 7; Sp. p. 87; Gaz. vol. 178; p. 16.
Oil-burner, Centrifugal. M. A. Fesler. No. 1,026,663; May 21; Sp. p. 3464; Gaz. vol. 178; p. 604.
Oil burner, Crude-. O. B. Dawson. No. 1,027,699; May 28; Sp. p. 5708; Gaz. vol. 178; p. 995.
Oil burner, Crude-. S. A. Mantonya. No. 1,030,104; June 18; Sp. p. 4438; Gaz. vol. 179; p. 766.
Oil burner, Crude-. S. D. Kunkey. No. 1,040,218; Oct. 1; Gaz. vol. 183; p. 183.
Oil burner, Crude-. A. A. Wintermute. No. 1,047,359; Dec. 17; Gaz. vol. 185; p. 614.
Oil-burner flame-spreader. C. L. Wagandt. No. 1,043,484; Nov. 5; Gaz. vol. 184; p. 158.
Oil burner, Fuel-. W. H. Howard. No. 1,019,648; Mar. 5; Sp. p. 1413; Gaz. vol. 176; p. 217.
Oil burner, Fuel-. M. L. Kline. No. 1,031,450; July 2; Gaz. vol. 180; p. 209.
Oil burner, Fuel-. C. E. Brown. No. 1,034,577; Aug. 6; Gaz. vol. 181; p. 59.
Oil-burner, Gas-generating. R. C. Casad. No. 1,038,290; Sept. 10; Gaz. vol. 182; p. 406.
Oil burner, Hydrocarbon-. T. J. Crook. No. 1,042,328; Oct. 22; Gaz. vol. 183; p. 996.
Oil-burner, Orchard. G. C. Richardson. No. 1,017,317; Feb. 13; Sp. p. 2413; Gaz. vol. 175; p. 410.
Oil-burner, Rotary. W. M. Britten. No. 1,022,122; Apr. 2; Sp. p. 782; Gaz. vol. 177; p. 124.
Oil-burning apparatus. W. C. H. Noble. No. 1,029,818; June 18; Sp. p. 3808; Gaz. vol. 179; p. 668.
Oil-burning apparatus. E. Deruntz. No. 1,034,889; Aug. 6; Gaz. vol. 181; p. 164.
Oil-burning apparatus, Fuel-. A. R. Kunkel. No. 1,039,297; Sept. 24; Gaz. vol. 182; p. 805.
Oil-burning furnace. E. Squire. No. 1,039,460; Sept. 24; Gaz. vol. 182; p. 861.
Oil-burning method and apparatus, Fuel-. A. T. Jones. No. 1,039,752; Oct. 1; Gaz. vol. 183; p. 28.
Oil-burning system. F. J. Kaeser. No. 1,033,594; July 23; Gaz. vol. 180; p. 1061.
Oil-cake pan. A. W. French. No. 1,029,435; June 11; Sp. p. 2981; Gaz. vol. 179; p. 499.
Oil-can. M. T. and W. C. Axelton. No. 1,013,105; Jan. 2; Sp. p. 17; Gaz. vol. 174; p. 6.
Oil-can. T. W. Alexander. No. 1,016,121; Jan. 30; Sp. p. 6648; Gaz. vol. 174; p. 1156.
Oil-can. L. W. Gruver. No. 1,020,413; Mar. 19; Sp. p. 2976; Gaz. vol. 176; p. 539.
Oil-can. J. E. Bethancourt. No. 1,021,653; Mar. 26; Sp. p. 5614; Gaz. vol. 176; p. 1009.
Oil-can. F. Karpisek. No. 1,027,254; May 21; Sp. p. 4795; Gaz. vol. 178; p. 808.
Oil-can. R. D. Shepardson. No. 1,028,617; June 4; Sp. p. 1203; Gaz. vol. 179; p. 184.
Oil-can. M. T. and W. C. Axelton. No. 1,028,835; June 4; Sp. p. 1648; Gaz. vol. 179; p. 257.
Oil-can. J. B. McCune and B. T. Cubine. No. 1,045,868; Dec. 3; Gaz. vol. 185; p. 25.
Oil-can. R. A. Wakefield. No. 1,046,515; Dec. 10; Gaz. vol. 185; p. 289.
Oil-can. C. L. Angle. No. 1,046,713; Dec. 10; Gaz. vol. 185; p. 360.
Oil-can, Non-explosive. E. J. Walsh and W. Vargo. No. 1,029,329; June 11; Sp. p. 2736; Gaz. vol. 179; p. 462.
Oil-catcher. J. E. Leberman. No. 1,020,564; Mar. 19; Sp. p. 3309; Gaz. vol. 176; p. 590.
Oil-circulating system for lubricating and regulating. W. Kieser. No. 1,017,557; Feb. 13; Sp. p. 2912; Gaz. vol. 175; p. 492.
Oil-cloth rack. C. C. Sisler. No. 1,014,528; Jan. 9; Sp. p. 3152; Gaz. vol. 174; p. 524.
Oil-container-safety-device protector. R. L. Ziller. No. 1,039,006; Sept. 17; Gaz. vol. 182; p. 688.
Oil-conveyer. E. C. Burns. No. 1,016,736; Feb. 6; Sp. p. 1132; Gaz. vol. 175; p. 174.
Oil-cup. W. H. Bressel and R. O'Hara. No. 1,027,522; May 28; Sp. p. 5343; Gaz. vol. 178; p. 936.
Oil-cup. B. L. Weld. No. 1,037,567; Sept. 3; Gaz. vol. 182; p. 132.

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Oil-cup. W. R. Garner. No. 1,044,224; Nov. 12; Gaz. vol. 184; p. 442.
Oil-cup. S. Elliott. No. 1,047,012; Dec. 10; Gaz. vol. 185; p. 458.
Oil-cup, Journal-box. C. H. Alexander. No. 1,039,629; Sept. 24; Gaz. vol. 182; p. 920.
Oil cup or boxing. E. A. Smith. No. 1,023,046; Apr. 9; Sp. p. 2745; Gaz. vol. 177; p. 469.
Oil-cup, Sight-feed. R. J. Leach. No. 1,044,062; Nov. 12; Gaz. vol. 184; p. 388.
Oil-drip. P. A. Curtin. No. 1,040,898; Oct. 8; Gaz. vol. 183; p. 445.
Oil dropper, Mayonnaise-. S. E. Creasey. No. 1,016,481; Feb. 6; Sp. p. 558; Gaz. vol. 175; p. 86.
Oil-engine. J. W. Cross. No. 1,044,755; Nov. 19; Gaz. vol. 184; p. 658.
Oil-extracting device. C. Turner and H. J. Flood. No. 1,024,230; Apr. 23; Sp. p. 5311; Gaz. vol. 177; p. 930.
Oil-fed furnace. A. H. Light. No. 1,024,347; Apr. 23; Sp. p. 5521; Gaz. vol. 177; p. 967.
Oil-feed mechanism. W. G. Schaeffer. No. 1,014,855; Jan. 16; Sp. p. 3946; Gaz. vol. 174; p. 668.
Oil-feeding device. C. F. Hoofer. No. 1,038,889; Sept. 17; Gaz. vol. 182; p. 649.
Oil-feeding mechanism. L. G. Nilson. No. 1,020,774; Mar. 19; Sp. p. 3775; Gaz. vol. 176; p. 661.
Oil, Floor-. C. Ellis. No. 1,013,538; Jan. 2; Sp. p. 980; Gaz. vol. 174; p. 157.
Oil generator, Kerosene-. R. E. Bushnell. No. 1,048,293; Dec. 24; Gaz. vol. 185; p. 961.
Oil-guard. B. H. Hamilton. No. 1,019,460; Mar. 5; Sp. p. 1051; Gaz. vol. 176; p. 154.
Oil heater and distributer, Road-. J. P. and W. M. Beatty. No. 1,046,946; Dec. 10; Gaz. vol. 185; p. 438.
Oil-indicator. C. M. Dowell. No. 1,043,680; Nov. 5; Gaz. vol. 184; p. 225.
Oil long distances, Transporting. A. E. Roberts and A. L. Emery. No. 1,016,958; Feb. 13; Sp. p. 1622; Gaz. vol. 175; p. 285.
Oil, Non-inflammable lubricating-. J. W. Aylsworth. No. 1,029,254; June 11; Sp. p. 2567; Gaz. vol. 179; p. 435.
Oil or grease gun. W. H. Wehrenberg. No. 1,040,476; Oct. 8; Gaz. vol. 183; p. 300.
Oil-press. L. Hoffmann. No. 1,047,809; Dec. 17; Gaz. vol. 185; p. 772.
Oil product, Edible. C. Ellis. No. 1,037,881; Sept. 10; Gaz. vol. 182; p. 268.
Oil-seed and the like, Apparatus particularly suitable for treating. R. Scott. No. 1,040,782; Oct. 8; Gaz. vol. 183; p. 408.
Oil-separator. R. W. Latham. No. 1,019,809; Mar. 12; Sp. p. 1725; Gaz. vol. 176; p. 302.
Oil-separator. F. J. Maywald. No. 1,048,717; Dec. 31; Gaz. vol. 185; p. 1145.
Oil-stoker, Automatic. W. F. Goodwin and G. Dawson. No. 1,035,576; Aug. 13; Gaz. vol. 181; p. 428.
Oil suitable for impregnating porous bodies, Preparing an. J. Dehnst. No. 1,041,604; Oct. 15; Gaz. vol. 183; p. 714.
Oil-swab holder. C. E. Calkins. No. 1,033,535; July 23; Gaz. vol. 180; p. 1041.
Oil-switch. C. C. Badeau. No. 1,021,746; Mar. 26; Sp. p. 5793; Gaz. vol. 176; p. 1040.
Oil-switch. E. M. Hewlett. No. 1,023,310; Apr. 16; Sp. p. 3346; Gaz. vol. 177; p. 597.
Oil-switch. H. L. Smith. No. 1,031,479; July 2; Gaz. vol. 180; p. 220.
Oil-switch. E. M. Hewlett. No. 1,045,288; Nov. 26; Gaz. vol. 184; p. 870.
Oil-switch, Automatic. H. L. Smith. No. 1,046,119; Dec. 3; Gaz. vol. 185; p. 110.
Oil-tank safety appliance. C. G. Gaddis. No. 1,019,779; Mar. 12; Sp. p. 1671; Gaz. vol. 176; p. 291.
Oil-testing apparatus. P. Wendt. No. 1,047,469; Dec. 17; Gaz. vol. 185; p. 651.
Oil-testing machine. P. Wendt. No. 1,024,872; Apr. 30; Sp. p. 6743; Gaz. vol. 177; p. 1186.
Oil-testing machine. P. Wendt. No. 1,044,317; Nov. 12; Gaz. vol. 184; p. 475.
Oils and greases, Hydrogenating. C. Ellis. No. 1,043,912; Nov. 12; Gaz. vol. 184; p. 335.
Oils, caoutchouc, resins, &c., Manufacturing substitutes for. L. Lilienfeld. No. 1,037,158; Aug. 27; Gaz. vol. 181; p. 1036.
Oils for the production of asphalt and the recovery of lighter products, Method of and apparatus for treating asphaltic. F. H. Dunham. No. 1,013,283; Jan. 2; Sp. p. 423; Gaz. vol. 174; p. 68.
Oils, Solidification of hydrocarbon. J. T. Armstrong and J. Mordan. No. 1,041,564; Oct. 15; Gaz. vol. 183; p. 703.
Oils soluble in water, Manufacturing. L. Hirschberg. No. 1,042,915; Oct. 29; Gaz. vol. 183; p. 1229.
Oiler. R. H. Evans. No. 1,042,899; Oct. 29; Gaz. vol. 183; p. 1224.
Oiler. G. W. Palmer. No. 1,043,968; Nov. 12; Gaz. vol. 184; p. 356.
Oiler. T. Burke. No. 1,048,132; Dec. 24; Gaz. vol. 185; p. 908.
Oiler, Automatic. A. J. McArthur and J. R. Tucker. No. 1,020,835; Mar. 19; Sp. p. 3898; Gaz. vol. 176; p. 681.
Oiler, Automatic piston-rod. C. Knopf and W. N. Johnson. No. 1,017,057; Feb. 13; Sp. p. 1840; Gaz. vol. 175; p. 319.
Oiler, Floor-. A. J. Axsiom. No. 1,034,950; Aug. 6; Gaz. vol. 181; p. 184.
Oiler, Force-feed. A. Levedahl. No. 1,028,471; June 4; Sp. p. 897; Gaz. vol. 179; p. 135.
Oiler, Force-feed. A. Levedahl. No. 1,029,547; June 11; Sp. p. 3199; Gaz. vol. 179; p. 536.
Oiler, Hand-. J. L. Fusner. No. 1,034,897; Aug. 6; Gaz. vol. 181; p. 167.
Oiler, Pneumatic floor-. C. W. Corey. No. 1,019,135; Mar. 5; Sp. p. 285; Gaz. vol. 176; p. 45.
Oiler, Road-. W. H. Gailor. No. 1,038,340; Sept. 10; Gaz. vol. 182; p. 423.
Oiler, Shaft-. F. R. Ashton. No. 1,049,191; Dec. 31; Gaz. vol. 185; p. 1308.
Oiler, Windmill-. P. Bovey. No. 1,037,420; Sept. 3; Gaz. vol. 182; p. 82.
Oiling apparatus for journals. W. O'Coners. No. 1,041,152; Oct. 15; Gaz. vol. 183; p. 566.
Oiling attachment for brooms. O. C. Malone. No. 1,048,715; Dec. 31; Gaz. vol. 185; p. 1145.
Oiling device. J. W. F. Berry and J. Macon. No. 1,039,083; Sept. 24; Gaz. vol. 182; p. 729.
Oiling device, Animal-. F. H. Schultz. No. 1,045,198; Nov. 26; Gaz. vol. 184; p. 838.
Oiling device for bearings, Positive. W. S. Sutton. No. 1,015,095; Jan. 16; Sp. p. 4452; Gaz. vol. 174; p. 749.
Oiling device, Gasolene-engine-. W. E. Adams and W. J. Murray. No. 1,015,466; Jan. 23; Sp. p. 5261; Gaz. vol. 174; p. 901.
Oiling leaf-springs, Tool for use in. H. Hutchinson. No. 1,048,412; Dec. 24; Gaz. vol. 185; p. 1001.
Oiling machine, Road-. W. F. Davis. No. 1,044,999; Nov. 19; Gaz. vol. 184; p. 741.
Oiling system. C. E. Wiffler. No. 1,046,524; Dec. 10; Gaz. vol. 185; p. 292.
Oiling system, Engine-. C. Reeves. No. 1,034,143; July 30; Gaz. vol. 180; p. 1275.
Oiling system for automobiles. E. M. White. No. 1,022,991; Apr. 9; Sp. p. 2638; Gaz. vol. 177; p. 450.
Ointment-machine. W. O. Kaiser. No. 1,042,923; Oct. 29; Gaz. vol. 183; p. 1231.
Oleaginous material and the like, Machine for expressing. E. Zander. No. 1,045,355; Nov. 26; Gaz. vol. 184; p. 893.
Oleaginous materials, Treating. W. C. Merrill. No. 1,023,386; Apr. 16; Sp. p. 3488; Gaz. vol. 177; p. 622.
Oleum, Making. T. L. Briggs and H. F. Merriam. No. 1,013,638; Jan. 2; Sp. p. 1187; Gaz. vol. 174; p. 190.
ω-para-alkyloxyphenylethylamins and their n-alkyl derivatives, Producing. G. Reinicke. No. 1,016,092; Jan. 30; Sp. p. 6601; Gaz. vol. 174; p. 1146.
1.1'-dianthraquinonyl-2.2'-dialdehyde bodies and making such compounds. M. H. Isler. No. 1,047,813; Dec. 17; Gaz. vol. 185; p. 773.
1-p-dimethylaminophenyl-3.4.4-trimethyl-5-pyrazolone and making same. F. Stolz. No. 1,017,699; Feb. 20; Sp. p. 3191; Gaz. vol. 175; p. 574.
One-piece bracket. L. A. Buffinger and D. Robertson. No. 1,037,122; Aug. 27; Gaz. vol. 181; p. 1025.
Onion or vegetable topping machine. J. H. Shirley. No. 1,026,776; May 21; Sp. p. 3714; Gaz. vol. 178; p. 643.
Onion-topper. C. M. Clemens, Jr. No. 1,041,595; Oct. 15; Gaz. vol. 183; p. 711.
Open-hearth furnace, Air-cooled. H. Knoth. No. 1,044,788; Nov. 19; Gaz. vol. 184; p. 670.
Opener and lap-machine. J. C. Potter. No. 1,015,834; Jan. 30; Sp. p. 6035; Gaz. vol. 174; p. 1054.
Opera-glass, Folding. A. Lévy. No. 1,024,730; Apr. 30; Sp. p. 6443; Gaz. vol. 177; p. 1136.
Operating chair or table. B. A. Clayton. No. 1,046,736; Dec. 10; Gaz. vol. 185; p. 367.
Operating-table. J. M. Baber. No. 1,024,966; Apr. 30; Sp. p. 6933; Gaz. vol. 177; p. 1218.
Operating-table, X-ray. E. W. Kelly. No. 1,015,187; Jan. 16; Sp. p. 4618; Gaz. vol. 174; p. 779.
Ophthalmometer. C. H. Pixley. No. 1,046,105; Dec. 3; Gaz. vol. 185; p. 105.
Ophthalmometer. C. J. Troppman. No. 1,046,122; Dec. 3; Gaz. vol. 185; p. 111.
Optical instrument. A. Barr and W. Stroud. No. 1,031,769; July 9; Gaz. vol. 180; p. 362.
Optical projection purposes and making same, Screen for. H. S. Williams. No. 1,043,988; Nov. 12; Gaz. vol. 184; p. 363.
Optical testing instrument. A. F. Shore. No. 1,044,584; Nov. 19; Gaz. vol. 184; p. 598.
Orange-boxing device. G. T. Stamm. No. 1,030,342; June 25; Sp. p. 4978; Gaz. vol. 179; p. 887.
Orange-knife. E. Frank. No. 1,041,767; Oct. 22; Gaz. vol. 183; p. 808.
Orchard-heater. A. D. Ward. No. 1,016,907; Feb. 6; Sp. p. 1494; Gaz. vol. 175; p. 231.
Orchard-heater. J. L. Hamilton. No. 1,018,048; Feb. 20; Sp. p. 4038; Gaz. vol. 175; p. 698.
Orchard-heater. E. O. Carver. No. 1,027,989; May 28; Sp. p. 6364; Gaz. vol. 178; p. 1093.

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Orchard-heater. N. B. Newcomer and C. O. Johnson. No. 1,038,420; Sept. 10; Gaz. vol. 182; p. 452.
Orchard-heater. C. Stollberg. No. 1,044,705; Nov. 19; Gaz. vol. 184; p. 640.
Orchard-heater. J. L. Hamilton. No. 1,045,547; Nov. 26; Gaz. vol. 184; p. 963.
Orchard heater and vaporizer. C. W. Johnson. No. 1,024,633; Apr. 30; Sp. p. 6258; Gaz. vol. 177; p. 1101.
Orchard-heater, Portable. M. B. Fitts. No. 1,034,991; Aug. 6; Gaz. vol. 181; p. 197.
Orchards, gardens, &c., Protective apparatus for. G. A. Lowry. No. 1,035,980; Aug. 20; Gaz. vol. 181; p. 601.
Order-guide. E. J. Bliss. No. 1,024,716; Apr. 30; Sp. p. 6418; Gaz. vol. 177; p. 1130.
Order-taking and receipt-delivering device. C. R. Lang. No. 1,042,010; Oct. 22; Gaz. vol. 183; p. 891.
Ordnance, Breech-loading. A. T. Dawson and G. T. Buckham. No. 1,022,124; Apr. 2; Sp. p. 784; Gaz. vol. 177: p. 125.
Ordnance, Breech-loading. A. T. Dawson and G. T. Buckham. No. 1,032,591; July 16; Gaz. vol. 180; p. 685.
Ordnance breech mechanism. G. L. Smith and D. F. Asbury. No. 1,020,849; Mar. 19; Sp. p. 3925; Gaz. vol. 176; p. 686.
Ordnance, Breech-operating mechanism of. C. P. E. Schneider. No. 1,020,577; Mar. 19; Sp. p. 3345; Gaz. vol. 176; p. 594.
Ordnance, Cartridge extracting and ejecting mechanism for breech-loading. A. T. Dawson and G. T. Buckham. No. 1,022,469; Apr. 9; Sp. p. 1513; Gaz. vol. 177; p. 271.
Ordnance, Elevating mechanism of heavy. A. T. Dawson and J. Horne. No. 1,041,247; Oct. 15; Gaz. vol. 183; p. 598.
Ordnance explosive charge. H. Maxim. No. 1,015,814; Jan. 30; Sp. p. 5988; Gaz. vol. 174; p. 1047.
Ordnance, Heavy. A. T. Dawson and J. Horne. No. 1,041,248; Oct. 15; Gaz. vol. 183; p. 598.
Ordnance, Heavy. A. T. Dawson and J. Horne. No. 1,041,249; Oct. 15; Gaz. vol. 183; p. 599.
Ordnance, Heavy. A. T. Dawson and J. Horne. No. 1,041,250; Oct. 15; Gaz. vol. 183; p. 599.
Ordnance, Heavy. A. T. Dawson and J. Horne. No. 1,041,602; Oct. 15; Gaz. vol. 183; p. 714.
Ordnance, Recoil-checking mechanism for. F. B. Yingling. No. 1,043,890; Nov. 12; Gaz. vol. 184; p. 328.
Ordnance sighting apparatus. A. T. Dawson and G. T. Buckham. No. 1,040,161; Oct. 1; Gaz. vol. 183; p. 164.
Ordnance sighting apparatus. A. T. Dawson and G. T. Buckham. No. 1,040,162; Oct. 1; Gaz. vol. 183; p. 165.
Ordnance, Sighting apparatus for. A. T. Dawson and G. T. Buckham. No. 1,026,660; May 21; Sp. p. 3458; Gaz. vol. 178; p. 603.
Ordnance telescopic sight. O. Forstmann. No. 1,030,070; June 18; Sp. p. 4370; Gaz. vol. 179; p. 753.
Ore and slime concentrator, Centrifugal. C. A. Christensen. No. 1,018,878; Feb. 27; Sp. p. 5869; Gaz. vol. 175; p. 1013.
Ore and the like, Apparatus for classifying or grading crushed. G. H. Stanley. No. 1,040,804; Oct. 8; Gaz. vol. 183; p. 416.
Ore, Apparatus for treatment of. J. Gross and L. Cohen. No. 1,021,248; Mar. 26; Sp. p. 4766; Gaz. vol. 176; p. 870.
Ore-bin door. O. H. Dickerson. No. 1,041,444; Oct. 15; Gaz. vol. 183; p. 663.
Ore-burner. C. C. Meigs. No. 1,038,408; Sept. 10; Gaz. vol. 182; p. 447.
Ore-concentrating launder. P. R. Stanhope. No. 1,029,089; June 11; Sp. p. 2222; Gaz. vol. 179; p. 379.
Ore-concentrating machine. O. H. King. No. 1,014,827; Jan. 16; Sp. p. 3874; Gaz. vol. 174; p. 657.
Ore-concentrator. I. F. Monell. No. 1,013,205; Jan. 2; Sp. p. 234; Gaz. vol. 174; p. 40.
Ore-concentrator. E. Deister. No. 1,019,884; Mar. 12; Sp. p. 1874; Gaz. vol. 176; p. 327.
Ore-concentrator. C. J. Witt. No. 1,023,909; Apr. 23; Sp. p. 4585; Gaz. vol. 177; p. 817.
Ore-concentrator. L. E. Jones. No. 1,029,933; June 18; Sp. p. 4078; Gaz. vol. 179; p. 708.
Ore-concentrator. G. M. Gross. No. 1,035,874; Aug. 20; Gaz. vol. 181; p. 566.
Ore-concentrator. T. W. A. West. No. 1,038,046; Sept. 10; Gaz. vol. 182; p. 325.
Ore-concentrator. C. I. Glassbrook. No. 1,038,871; Sept. 17; Gaz. vol. 182; p. 643.
Ore-concentrator. E. Deister. No. 1,040,288; Oct. 8; Gaz. vol. 183; p. 236.
Ore-concentrator. E. Deister. No. 1,044,030; Nov. 12; Gaz. vol. 184; p. 376.
Ore-concentrator, Dry. A. H. Kidney. No. 1,036,260; Aug. 20; Gaz. vol. 181; p. 701.
Ore-concentrator, Endless-belt. E. A. Wall. No. 1,033,219; July 23; Gaz. vol. 180; p. 937.
Ore concentrator or slimer. I. F. Monell. No. 1,041,842; Oct. 22; Gaz. vol. 183; p. 835.
Ore-concentrators and apparatus therefor, Feeding endless-belt. F. S. Card. No. 1,033,302; July 23; Gaz. vol. 180; p. 966.
Ore-concentrators, Head-motion for. J. F. Isbell. No. 1,019,650; Mar. 5; Sp. p. 1416; Gaz. vol. 176; p. 218.
Ore-concentrators, Head-motion for. H. Eggers. No. 1,038,322; Sept. 10; Gaz. vol. 182; p. 417.
Ore conveyer and classifier. D. J. Nevill. No. 1,024,647; Apr. 30; Sp. p. 6279; Gaz. vol. 177; p. 1106.
Ore-crusher. E. A. Mathers. No. 1,017,780; Feb. 20; Sp. p. 3428; Gaz. vol. 175; p. 603.
Ore-crusher. M. F. Williams. No. 1,034,552; Aug. 6; Gaz. vol. 181; p. 51.
Ore-crusher. B. W. Traylor. No. 1,035,273; Aug. 13; Gaz. vol. 181; p. 323.
Ore-crusher. E. A. Wall. No. 1,044,832; Nov. 19; Gaz. vol. 184; p. 684.
Ore-crusher. E. A. Wall. No. 1,044,833; Nov. 19; Gaz. vol. 184; p. 684.
Ore-crusher. M. F. Williams. No. 1,047,356; Dec. 17; Gaz. vol. 185; p. 614.
Ore feed-mixer and distributer. L. T. Sicka. No. 1,047,316; Dec. 17; Gaz. vol. 185; p. 598.
Ore-feeder. W. E. Wahlin. No. 1,032,256; July 9; Gaz. vol. 180; p. 527.
Ore-feeder. H. C. Behr. No. 1,047,369; Dec. 17; Gaz. vol. 185; p. 617.
Ore-feeder. T. Sutton. No. 1,047,589; Dec. 17; Gaz. vol. 185; p. 694.
Ore-grinding pans, Lifting mechanism for mullers of. G. A. Gelien. No. 1,029,863; June 18; Sp. p. 3924; Gaz. vol. 179; p. 683.
Ore-mill, Gyratory. G. H. Bradford. No. 1,036,433; Aug. 20; Gaz. vol. 181; p. 761.
Ore-pockets or similar receptacles, Door mechanism for. R. B. Pearson. No. 1,040,237; Oct. 1; Gaz. vol. 183; p. 189.
Ore product, Metalliferous. A. S. Dwight and R. L. Lloyd. No. 1,020,345; Mar. 12; Sp. p. 2824; Gaz. vol. 176; p. 479.
Ore-pulverizing machine. M. Arnold. No. 1,035,136; Aug. 13; Gaz. vol. 181; p. 274.
Ore roasting and sintering apparatus. A. S. Dwight. No. 1,021,509; Mar. 26; Sp. p. 5349; Gaz. vol. 176; p. 963.
Ore roasting and sintering apparatus. A. S. Dwight. (Reissue.) No. 13,423; May 28; Sp. p. 6608; Gaz. vol. 178; p. 1125.
Ore-roasting furnace. T. Edwards. No. 1,036,814; Aug. 27; Gaz. vol. 181; p. 921.
Ore-roasting furnace and cooling-hearth, Helixoidal combined. E. A. Clark and W. H. Davis. No. 1,029,667; June 18; Sp. p. 3458; Gaz. vol. 179; p. 614.
Ore-roasting furnace, Mechanical. J. Harris. No. 1,035,186; Aug. 13; Gaz. vol. 181: p. 293.
Ore-sampling device. L. M. Sheridan. No. 1,031,385; July 2; Gaz. vol. 180; p. 188.
Ore-screen. C. O. Michaelsen. No. 1,040,251; Oct. 1; Gaz. vol. 183; p. 194.
Ore-separating apparatus. H. Dallemagne. No. 1,035,864; Aug. 20; Gaz. vol. 181; p. 562.
Ore separation, Liquid. F. I. Du Pont. No. 1,014,624; Jan. 9; Sp. p. 3367; Gaz. vol. 174; p. 557.
Ore-separator. F. C. and F. C. O'Brien. No. 1,031,285; July 2; Gaz. vol. 180; p. 154.
Ore-separator. W. F. Bradbury. No. 1,042,194; Oct. 22; Gaz. vol. 183; p. 951.
Ore-separator. M. P. Bates and J. S. Lampton. No. 1,048,026; Dec. 24; Gaz. vol. 185; p. 871.
Ore-separator, Magnetic. J. Weatherby. No. 1,024,539; Apr. 30; Sp. p. 6015; Gaz. vol. 177; p. 1069.
Ore, Treating. W. Günther. No. 1,032,400; July 16; Gaz. vol. 180; p. 621.
Ore-treating apparatus. H. J. Stehli. No. 1,027,084; May 21; Sp. p. 4457; Gaz. vol. 178; p. 751.
Ore-treating apparatus. A. J. Arbuckle. No. 1,036,535; Aug. 27; Gaz. vol. 181; p. 828.
Ore-treating mechanism. A. S. Dwight. No. 1,027,110; May 21; Sp. p. 4509; Gaz. vol. 178; p. 760.
Ore, Treating zinc-bearing. J. O. Johnstone. No. 1,029,932; June 18; Sp. p. 4076; Gaz. vol. 179; p. 708.
Ores and metals, Reducing. W. H. Kelly. No. 1,024,136; Apr. 23; Sp. p. 5096; Gaz. vol. 177; p. 896.
Ores and product resulting therefrom, Roasting and sintering. A. S. Dwight. (Reissue.) No. 13,424; May 28; Sp. p. 6616; Gaz. vol. 178; p. 1127.
Ores and similar materials, Sintering fine. J. G. West, Jr. No. 1,031,153; July 2; Gaz. vol. 180; p. 108.
Ores, Apparatus for the wet dressing of sulfid. B. S. Smith. No. 1,014,977; Jan. 16; Sp. p. 4218; Gaz. vol. 174; p. 710.
Ores, Converter for the separation of metals in complex. M. Collin. No. 1,033,062; July 16; Gaz. vol. 180; p. 845.
Ores, metalliferous residues, &c., Method of and apparatus for agglomerating fine. C. Dellwik. No. 1,039,706; Oct. 1; Gaz. vol. 183; p. 11.
Ores, Reduction of. W. Koehler. No. 1,013,498; Jan. 2; Sp. p. 896; Gaz. vol. 174; p. 143.
Ores, Reduction of. E. Thomson. No. 1,031,490; July 2; Gaz. vol. 180; p. 224.
Ores, Reduction of refractory. F. J. Tone. No. 1,028,151; June 4; Sp. p. 160; Gaz. vol. 179; p. 24.
Ores, Roasting. C. Gabrielli. No. 1,018,609; Feb. 27; Sp. p. 5310; Gaz. vol. 175; p. 922.

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Ores, &c., Separating. A. A. Lockwood. No. 1,043,851; Nov. 12; Gaz. vol. 184; p. 314.
Ores, Treating. R. Gahl. No. 1,021,769; Apr. 2; Sp. p. 27; Gaz. vol. 177; p. 8.
Ores, Treating. E. Kerr. No. 1,032,007; July 9; Gaz. vol. 180; p. 443.
Ores, &c., Treating and subsequently separating sulfid. E. J. Horwood. No. 1,020,353; Mar. 12; Sp. p. 2840; Gaz. vol. 176; p. 481.
Ores, Treatment of. J. Irving. No. 1,048,541; Dec. 31; Gaz. vol. 185; p. 1084.
Organ-blower casing. I. H. Spencer. No. 1,044,098; Nov. 12; Gaz. vol. 184; p. 401.
Organ, Folding. B. N. Hanson. No. 1,027,475; May 28; Sp. p. 5245; Gaz. vol. 178; p. 920.
Organ-pipes, Metal pipe-foot with wooden jacket for. W. A. Sommerhof. No. 1,013,570; Jan. 2; Sp. p. 1036; Gaz. vol. 174; p. 167.
Organ pneumatic action, Pipe-. C. K. Heckman. No. 1,043,593; Nov. 5; Gaz. vol. 184; p. 195.
Organ, Reed-. A. Radovanovic. No. 1,035,738; Aug. 13; Gaz. vol. 181; p. 481.
Organ-swell. R. Hope-Jones. No. 1,021,149; Mar. 26; Sp. p. 4539; Gaz. vol. 176; p. 837.
Organs, harmoniums, &c., Apparatus for blowing pipe-. L. B. Cousans. No. 1,018,483; Feb. 27; Sp. p. 4988; Gaz. vol. 175; p. 878.
Orthodontia appliance. M. N. Federspiel. No. 1,044,764; Nov. 19; Gaz. vol. 184; p. 661.
Oscillating-cylinder engine. G. A. Anderson. No. 1,025,605; May 7; Sp. p. 1112; Gaz. vol. 178; p. 173.
Oscillating engine. I. T. Price. No. 1,024,098; Apr. 23; Sp. p. 4997; Gaz. vol. 177; p. 883.
Oscillator, High-frequency. A. A. Jahnke. No. 1,047,643; Dec. 17; Gaz. vol. 185; p. 713.
Oscillatory motor. R. Rainalter. No. 1,036,711; Aug. 27; Gaz. vol. 181; p. 887.
Oscillatory motor. R. B. Goodrich. No. 1,044,042; Nov. 12; Gaz. vol. 184; p. 381.
Oscillograph. J. T. Dempster. No. 1,019,432; Mar. 5; Sp. p. 989; Gaz. vol. 176; p. 145.
Osteopathic table. J. V. McManis and W. L. Sherwood. No. 1,038,619; Sept. 17; Gaz. vol. 182; p. 555.
Osteopathic-treatment chair. T. J. Berggren. No. 1,026,782; May 21; Sp. p. 3726; Gaz. vol. 178; p. 645.
Outlet-box. A. I. Appleton. No. 1,016,925; Feb. 13; Sp. p. 1533; Gaz. vol. 175; p. 273.
Outlet-box. E. J. Dustman. No. 1,023,460; Apr. 16; Sp. p. 3636; Gaz. vol. 177; p. 645.
Outlet-box. N. Marshall. No. 1,031,564; July 2; Gaz. vol. 180; p. 248.
Outlet-box. J. Keefe. No. 1,039,955; Oct. 1; Gaz. vol. 183; p. 94.
Outlet-box. O. Carman. No. 1,045,256; Nov. 26; Gaz. vol. 184; p. 859.
Outlet-box construction. J. H. Wyatt and H. C. Campion, Jr. No. 1,041,220; Oct. 15; Gaz. vol. 183; p. 588.
Outlet-box, Electrical. W. F. Irish. No. 1,029,611; June 18; Sp. p. 3341; Gaz. vol. 179; p. 595.
Outlet-box hanger. L. G. Bowen. No. 1,042,881; Oct. 29; Gaz. vol. 183; p. 1217.
Outlook-table. F. B. Knapp. No. 1,027,855; May 28; Sp. p. 6079; Gaz. vol. 178; p. 1048.
Oven. R. P. Helman. No. 1,014,149; Jan. 9; Sp. p. 2352; Gaz. vol. 174; p. 393.
Oven. H. G. Howell. No. 1,019,897; Mar. 12; Sp. p. 1913; Gaz. vol. 176; p. 333.
Oven. P. J. McMorrow. No. 1,028,242; June 4; Sp. p. 403; Gaz. vol. 179; p. 57.
Oven. P. F. Carroll. No. 1,029,589; June 18; Sp. p. 3288; Gaz. vol. 179; p. 586.
Oven. A. W. Whitney. No. 1,033,075; July 16; Gaz. vol. 180; p. 849.
Oven. C. Ogburn. No. 1,035,036; Aug. 6; Gaz. vol. 181; p. 211.
Oven. J. W. Seale. No. 1,040,784; Oct. 8; Gaz. vol. 183; p. 409.
Oven. L. F. Betts. No. 1,040,855; Oct. 8; Gaz. vol. 183; p. 431.
Oven, Bake-. J. Faulds. No. 1,018,178; Feb. 20; Sp. p. 4330; Gaz. vol. 175; p. 743.
Oven, Baker's. F. Koch. No. 1,017,264; Feb. 13; Sp. p. 2302; Gaz. vol. 175; p. 392.
Oven, Baker's. F. Kühtz. No. 1,029,134; June 11; Sp. p. 2314; Gaz. vol. 179; p. 394.
Oven, Baking-. L. R. Davis. No. 1,018,883; Feb. 27; Sp. p. 5878; Gaz. vol. 175; p. 1014.
Oven, Baking-. F. Vermeulen. No. 1,019,862; Mar. 12; Sp. p. 1826; Gaz. vol. 176; p. 320.
Oven, Baking-. S. W. Schuster. No. 1,023,483; Apr. 16; Sp. p. 3685; Gaz. vol. 177; p. 652.
Oven, Baking-. U. S. Andes. No. 1,046,368; Dec. 3; Gaz. vol. 185; p. 198.
Oven-deflector. J. S. Sherman. No. 1,046,873; Dec. 10; Gaz. vol. 185; p. 413.
Oven-door. W. E. Huenefeld. No. 1,013,390; Jan. 2; Sp. p. 668; Gaz. vol. 174; p. 105.
Oven-door. W. E. Huenefeld. No. 1,016,566; Feb. 6; Sp. p. 778; Gaz. vol. 175; p. 115.
Oven-door. W. E. Huenefeld. No. 1,039,289; Sept. 24; Gaz. vol. 182; p. 803.
Oven-door frame. F. R. Henry. No. 1,044,046; Nov. 12; Gaz. vol. 184; p. 382.
Oven-door-hoisting device. L. C. Flaccus. No. 1,017,142; Feb. 13; Sp. p. 2034; Gaz. vol. 175; p. 349.
Oven-door, Self-closing. J. Scanlan. No. 1,041,175; Oct. 15; Gaz. vol. 183; p. 574.
Oven, Electric. J. G. Gronberg and W. D. Hodson. No. 1,022,545; Apr. 9; Sp. p. 1667; Gaz. vol. 177; p. 296.
Oven for baking pretzels. M. L. Davis. No. 1,036,580; Aug. 27; Gaz. vol. 181; p. 844.
Oven, Gas-heated. J. A. Buckwalter. No. 1,045,940; Dec. 3; Gaz. vol. 185; p. 49.
Oven illuminator, Bake-. F. J. Albrecht. No. 1,048,024; Dec. 24; Gaz. vol. 185; p. 871.
Oven, Knockdown. W. E. Huenefeld. No. 1,016,565; Feb. 6; Sp. p. 776; Gaz. vol. 175; p. 115.
Oven or cooker, Electric. C. A. Lauzon. No. 1,027,739; May 28; Sp. p. 5781; Gaz. vol. 178; p. 1007.
Oven, Portable. C. André. No. 1,020,174; Mar. 12; Sp. p. 2489; Gaz. vol. 176; p. 424.
Oven, Portable. W. E. Huenefeld. No. 1,039,290; Sept. 24; Gaz. vol. 182; p. 803.
Oven, Portable knockdown. W. E. Huenefeld. No. 1,037,770; Sept. 3; Gaz. vol. 182; p. 198.
Oven, refrigerator, and similar receptacle. E. Richardson. No. 1,013,313; Jan. 2; Sp. p. 504; Gaz. vol. 174; p. 79.
Oven-shelf. L. M. Amspacher. No. 1,043,385; Nov. 5; Gaz. vol. 184; p. 122.
Oven, Warming-. M. C. Munson. No. 1,014,325; Jan. 9; Sp. p. 2740; Gaz. vol. 174; p. 457.
Ovens, Machine for charging and discharging. G. Smith. No. 1,038,503; Sept. 10; Gaz. vol. 182; p. 480.
Ovens of the regenerative type, Reversing mechanism in. L. C. Flaccus. No. 1,032,129; July 9; Gaz. vol. 180; p. 482.
Ovens, refrigerators, and similar articles, Knockdown lining for. E. Richardson. No. 1,041,164; Oct. 15; Gaz. vol. 183; p. 570.
Ovens, Removable ceiling for enameling-. G. W. Hizer. No. 1,037,910; Sept. 10; Gaz. vol. 182; p. 279.
Overcheck-guide. J. Kressin. No. 1,018,117; Feb. 20; Sp. p. 4200; Gaz. vol. 175; p. 722.
Overedging-machine. J. P. Weis. No. 1,018,797; Feb. 27; Sp. p. 5705; Gaz. vol. 175; p. 986.
Overflow-alarm. A. G. Weier. No. 1,034,666; Aug. 6; Gaz. vol. 181; p. 87.
Overhead carrier. A. P. Nelson. No. 1,020,047; Mar. 12; Sp. p. 2215; Gaz. vol. 176; p. 381.
Overload control for metal rolls. G. H. Blaxter. No. 1,040,863; Oct. 8; Gaz. vol. 183; p. 433.
Overseaming-machine. S. and I. N. Soly. No. 1,043,161; Nov. 5; Gaz. vol. 184; p. 41.
Overshoe. W. N. Steuart. No. 1,029,772; June 18; Sp. p. 3696; Gaz. vol. 179; p. 651.
Overshoe. J. H. Brown and D. A. Berry. No. 1,037,201; Sept. 3; Gaz. vol. 182; p. 8.
Overshoe. G. N. Kinnell. No. 1,038,391; Sept. 10; Gaz. vol. 182; p. 440.
Overshoe and legging, Waterproof. E. L. Hall. No. 1,014,873; Jan. 16; Sp. p. 3984; Gaz. vol. 174; p. 674.
Overshoe-fastener. J. B. Murray and M. E. Caven. No. 1,038,939; Sept. 17; Gaz. vol. 182; p. 667.
Overshoe-retainer. J. A. Yates. No. 1,047,869; Dec. 17; Gaz. vol. 185; p. 792.
Ox-bow. J. W. Reeves. No. 1,040,756; Oct. 8; Gaz. vol. 183; p. 401.
Oxalates, Manufacture of. D. Strauss. No. 1,038,985; Sept. 17; Gaz. vol. 182; p. 681.
Oxalates, Producing. L. W. Andrews. No. 1,018,092; Feb. 20; Sp. p. 4149; Gaz. vol. 175; p. 713.
Oxid, Manufacturing pure nitric. R. M. von Berneck, M. Moest, and H. Graf. No. 1,021,234; Mar. 26; Sp. p. 4738; Gaz. vol. 176; p. 866.
Oxid, Obtaining titanic. G. Weintraub. No. 1,014,793; Jan. 16; Sp. p. 3795; Gaz. vol. 174; p. 645.
Oxids, Reduction of. W. C. Arsem. No. 1,023,290; Apr. 16; Sp. p. 3308; Gaz. vol. 177; p. 591.
Oxidase apparatus. H. H. Bunzel. No. 1,046,259; Dec. 3; Gaz. vol. 185; p. 160.
Oxidizing ferrous to ferric solutions. A. McKechnie and F. G. Beasley. No. 1,047,826; Dec. 17; Gaz. vol. 185; p. 777.
Oxidizing furnace, Tin-. K. von Olszewski. No. 1,028,595; June 4; Sp. p. 1161; Gaz. vol. 179; p. 176.
Oxidizing or reducing chemical substances by way of electrolysis. G. Kolsky. No. 1,039,415; Sept. 24; Gaz. vol. 182; p. 845.
Oxone. Apparatus for preparing. G. F. Brindley. No. 1,028,857; June 11; Sp. p. 1703; Gaz. vol. 179; p. 298.
Oxygen and nitrogen from the atmosphere, Obtaining and separating. G. Kaszner. No. 1,015,566; Jan. 23; Sp. p. 5462; Gaz. vol. 174; p. 936.
Oxygen and nitrogen, Producing compounds of. P. Bunet and A. Badin. No. 1,035,684; Aug. 13; Gaz. vol. 181; p. 464.
Oxygen, Cartridge for the preparation of. G. F. Jaubert. No. 1,025,191; May 7; Sp. p. 179; Gaz. vol. 178; p. 30.
Oxygen-generating composition. M. Herschkowitsch. No. 1,027,333; May 21; Sp. p. 4954; Gaz. vol. 178; p. 834.

Alphabetical list of inventions—Continued.

Oxygen-generator. N. J. Anderson. No. 1,038,065; Sept. 10; Gaz. vol. 182; p. 331.
Oxygen, Manufacturing. H. L. Doherty. No. 1,048,812; Dec. 31; Gaz. vol. 185; p. 1180.
Oyster-fork. J. B. Porter. No. 1,028,961; June 11; Sp. p. 1940; Gaz. vol. 179; p. 335.
Oyster-opening apparatus. J. Danon. No. 1,018,169; Feb. 20; Sp. p. 4311; Gaz. vol. 175; p. 740.
Oysters and the like, Carrier and submarine tube for gathering. W. R. Mitchell. No. 1,048,194; Dec. 24; Gaz. vol. 185; p. 928.
Ozone, Apparatus for the production of. J. Steynis. No. 1,035,489; Aug. 13; Gaz. vol. 181; p. 399.
Ozone-machines, Mouthpiece for. R. P. Guiley. No. 1,019,787; Mar. 12; Sp. p. 1689; Gaz. vol. 176; p. 294.
Ozone-producing apparatus. S. Held. No. 1,038,130; Sept. 10; Gaz. vol. 182; p. 351.
Ozonifying. C. S. Bradley. No. 1,041,421; Oct. 15; Gaz. vol. 183; p. 656.
Ozonizer. H. R. Stuart and W. H. Thompson. No. 1,024,533; Apr. 30; Sp. p. 5999; Gaz. vol. 177; p. 1067.
Ozonizer. R. M. Leggett. No. 1,037,500; Sept. 3; Gaz. vol. 182; p. 110.
Ozonizer. H. E. Beck. No. 1,040,123; Oct. 1; Gaz. vol. 183; p. 152.
Ozonizer. R. D. Small and O. Linder. No. 1,044,700; Nov. 19; Gaz. vol. 184; p. 638.
Ozonizing apparatus. M. Fuss. No. 1,017,258; Feb. 13; Sp. p. 2294; Gaz. vol. 175; p. 390.
Pacifier, Infant-. J. Walsh and R. D. Kay. No. 1,023,693; Apr. 16; Sp. p. 4092; Gaz. vol. 177; p. 718.
Package. G. Magee, Jr. No. 1,036,661; Aug. 27; Gaz. vol. 181; p. 872.
Package. J. M. Francis. No. 1,039,114; Sept. 24; Gaz. vol. 182; p. 739.
Package and splint, Emergency. S. G. Slaughter. No. 1,018,452; Feb. 27; Sp. p. 4913; Gaz. vol. 175; p. 868.
Package and toy, Combined. G. H. Kay. No. 1,013,941; Jan. 9; Sp. p. 1906; Gaz. vol. 174; p. 324.
Package-band-fastening device. W. A. Paulus. No. 1,021,884; Apr. 2; Sp. p. 286; Gaz. vol. 177; p. 47.
Package-binder. A. E. Morgan. No. 1,014,506; Jan. 9; Sp. p. 3112; Gaz. vol. 174; p. 517.
Package-carrier and advertising device. E. F. Priddat. No. 1,028,489; June 4; Sp. p. 943; Gaz. vol. 179; p. 141.
Package-clasp. C. G. Parks. No. 1,038,785; Sept. 17; Gaz. vol. 182; p. 613.
Package-conveying system. B. H. Alvey and M. U. Bernheim. No. 1,022,525; Apr. 9; Sp. p. 1628; Gaz. vol. 177; p. 290.
Package-delivery apparatus. C. D. Dewey. No. 1,045,002; Nov. 19; Gaz. vol. 184; p. 742.
Package-elevator. J. Keers. No. 1,037,635; Sept. 3; Gaz. vol. 182; p. 153.
Package-fastener. I. D. Kress. No. 1,027,858; May 28; Sp. p. 6084; Gaz. vol. 178; p. 1048.
Package-filler. M. J. Fleming and T. O. Ballard. No. 1,046,762; Dec. 10; Gaz. vol. 185; p. 377.
Package filler and weigher, Automatic. J. P. Curry. No. 1,048,446; Dec. 24; Gaz. vol. 185; p. 1012.
Package-filling apparatus. E. G. Tremaine. No. 1,023,343; Apr. 16; Sp. p. 3409; Gaz. vol. 177; p. 608.
Package, Food-. J. A. Kavanagh. No. 1,042,119; Oct. 22; Gaz. vol. 183; p. 927.
Package for lobsters, Shipping-. F. B. Higgins. No. 1,016,627; Feb. 6; Sp. p. 919; Gaz. vol. 175; p. 137.
Package-heading machine, Steel-. A. J. Meier. No. 1,025,637; May 7; Sp. p. 1193; Gaz. vol. 178; p. 183.
Package-inserting machine. G. Graf. No. 1,045,391; Nov. 26; Gaz. vol. 184; p. 905.
Package-lifter. F. L. Hunt. No. 1,024,991; Apr. 30; Sp. p. 6985; Gaz. vol. 177; p. 1227.
Package of commodity. J. O. E. Krohn. No. 1,028,888; June 11; Sp. p. 1777; Gaz. vol. 179; p. 311.
Package-reacher. E. O. Tetrault. No. 1,014,785; Jan. 16; Sp. p. 3780; Gaz. vol. 174; p. 642.
Package-receptacle. F. A. Selle. No. 1,027,568; May 28; Sp. p. 5447; Gaz. vol. 178; p. 952.
Package-roll of metallic leaf. C. E. Smith. No. 1,031,386; July 2; Gaz. vol. 180; p. 188.
Package, Sample-. J. M. Bullock. No. 1,046,962; Dec. 10; Gaz. vol. 185; p. 443.
Package, Sealed. J. W. Henson. No. 1,016,149; Jan. 30; Sp. p. 6699; Gaz. vol. 174; p. 1164.
Package, Shipping-. G. S. Bowman. No. 1,035,151; Aug. 13; Gaz. vol. 181; p. 280.
Package-tie. B. D. Weaver. No. 1,019,868; Mar. 12; Sp. p. 1839; Gaz. vol. 176; p. 322.
Package-tie. H. M. Cake. No. 1,020,963; Mar. 26; Sp. p. 4167; Gaz. vol. 176; p. 775.
Package-tie. T. F. Miller. No. 1,022,964; Apr. 9; Sp. p. 2594; Gaz. vol. 177; p. 441.
Package-tie. L. E. McIvor. No. 1,031,188; July 2; Gaz. vol. 180; p. 121.
Package-tie. H. O. Richard. No. 1,033,470; July 23; Gaz. vol. 180; p. 1020.
Package-tiers, Socket for connecting. B. F. Inge. No. 1,030,661; June 25; Sp. p. 5868; Gaz. vol. 179; p. 1003.
Package-tying device. A. Pieper and H. Case. No. 1,021,886; Apr. 2; Sp. p. 289; Gaz. vol. 177; p. 47.
Package, Wire-. H. W. Struss. (Reissue.) No. 13,441; July 9; Gaz. vol. 180; p. 567.
Packages, Bottom structure for metallic. L. J. and H. J. Hinde. No. 1,031,264; July 2; Gaz. vol. 180; p. 147.
Packages, String-fastener for. E. H. Johnson. No. 1,027,656; May 28; Sp. p. 5614; Gaz. vol. 178; p. 980.
Packaging loose substances, Machine for. G. A. Lee. No. 1,026,356; May 14; Sp. p. 2803; Gaz. vol. 178; p. 465.
Packaging-machine. H. Rose. No. 1,025,882; May 7; Sp. p. 1725; Gaz. vol. 178; p. 267.
Packaging-machine. F. W. Lev. No. 1,030,517; June 25; Sp. p. 5398; Gaz. vol. 179; p. 950.
Packaging-machine. C. F. Smith. No. 1,038,010; Sept. 10; Gaz. vol. 182; p. 313.
Packaging-machine. F. W. Lev. No. 1,042,013; Oct. 22; Gaz. vol. 183; p. 893.
Packaging-machine. C. F. Smith. No. 1,049,003; Dec. 31; Gaz. vol. 185; p. 1245.
Packed joint. J. M. McDonald. No. 1,031,018; July 2; Gaz. vol. 180; p. 59.
Packer. F. J. Heybach. No. 1,040,946; Oct. 8; Gaz. vol. 183; p. 462.
Packer, Subsurface-. W. O. Carley and C. Hollingsworth. No. 1,018,605; Feb. 27; Sp. p. 5305; Gaz. vol. 175; p. 921.
Packing. J. V. Clark. No. 1,013,745; Jan. 2; Sp. p. 1450; Gaz. vol. 174; p. 228.
Packing. A. C. Danver. No. 1,019,607; Mar. 5; Sp. p. 1337; Gaz. vol. 176; p. 202.
Packing. J. Restein. No. 1,020,661; Mar. 19; Sp. p. 3523; Gaz. vol. 176; p. 621.
Packing. J. Newlin. No. 1,023,525; Apr. 16; Sp. p. 3765; Gaz. vol. 177; p. 665.
Packing. H. J. Doolan. No. 1,025,792; May 7; Sp. p. 1498; Gaz. vol. 178; p. 237.
Packing. E. Christensen. No. 1,031,323; July 2; Gaz. vol. 180; p. 167.
Packing. A. W. Joiner. No. 1,032,838; July 16; Gaz. vol. 180; p. 770.
Packing. J. Walker. No. 1,035,279; Aug. 13; Gaz. vol. 181; p. 325.
Packing. E. J. Bloom. No. 1,038,834; Sept. 17; Gaz. vol. 182; p. 631.
Packing. J. Kerchner and J. Stugner. No. 1,042,926; Oct. 29; Gaz. vol. 183; p. 1232.
Packing. G. E. Wriedt. No. 1,045,088; Nov. 19; Gaz. vol. 184; p. 772.
Packing and other material, Tool for removing. J. H. Leek. No. 1,040,361; Oct. 8; Gaz. vol. 183; p. 261.
Packing and shipping case. R. A. Stluka. No. 1,020,463; Mar. 19; Sp. p. 3076; Gaz. vol. 176; p. 557.
Packing and shipping case, Metallic. L. F. Brand and F. C. Gladeck. No. 1,040,870; Oct. 8; Gaz. vol. 183; p. 436.
Packing and storage receptacle. S. P. Stout. No. 1,043,273; Nov. 5; Gaz. vol. 184; p. 80.
Packing and storing vessel. B. E. Byrd and W. M. Fallon. No. 1,025,449; May 7; Sp. p. 764; Gaz. vol. 178; p. 118.
Packing and storing vessel. B. E. Byrd and W. M. Fallon. No. 1,045,944; Dec. 3; Gaz. vol. 185; p. 51.
Packing, Annular metallic. J. Horton and T. W. Keen. No. 1,016,689; Feb. 6; Sp. p. 1038; Gaz. vol. 175; p. 158.
Packing apparatus, Vacuum. G. Staunton. No. 1,013,230; Jan. 2; Sp. p. 311; Gaz. vol. 174; p. 49.
Packing, Asbestos. C. L. Hill. No. 1,035,190; Aug. 13; Gaz. vol. 181; p. 294.
Packing-box. W. T. Snell. No. 1,018,938; Feb. 27; Sp. p. 5993; Gaz. vol. 175; p. 1033.
Packing-box. J. W. Schleicher. No. 1,039,447; Sept. 24; Gaz. vol. 182; p. 856.
Packing-case. L. D. Morton. (Reissue.) No. 13,465; Sept. 3; Gaz. vol. 182; p. 222.
Packing-case. J. J. Vanderveer. No. 1,039,225; Sept. 24; Gaz. vol. 182; p. 779.
Packing-case. W. F. Atwood. No. 1,047,144; Dec. 17; Gaz. vol. 185; p. 534.
Packing-case, Collapsible. F. F. Bradshaw. No. 1,026,379; May 14; Sp. p. 2856; Gaz. vol. 178; p. 473.
Packing-case, Folding. M. P. Connolly. No. 1,033,876; July 30; Gaz. vol. 180; p. 1181.
Packing-case lids, Means for fastening. E. A. Matthias. No. 1,047,895; Dec. 17; Gaz. vol. 185; p. 801.
Packing-case, Sheet-metal. J. H. Killion. No. 1,047,653; Dec. 17; Gaz. vol. 185; p. 718.
Packing, Engine-. W. E. Ogden. No. 1,020,842; Mar. 19; Sp. p. 3912; Gaz. vol. 176; p. 684.
Packing-expander. W. H. Lieber. No. 1,019,262; Mar. 5; Sp. p. 559; Gaz. vol. 176; p. 89.
Packing-expander. W. H. Lieber. No. 1,022,034; Apr. 2; Sp. p. 602; Gaz. vol. 177; p. 95.
Packing expander, Air-brake-piston-. J. E. Osmer. No. 1,033,116; July 23; Gaz. vol. 180; p. 901.
Packing expander, Loose-spring piston-. G. Christenson. No. 1,023,813; Apr. 23; Sp. p. 4343; Gaz. vol. 177; p. 785.
Packing expander, Piston-. G. Christenson. No. 1,023,814; Apr. 23; Sp. p. 4345; Gaz. vol. 177; p. 786.
Packing, Fabric. C. S. Bavier and E. F. Banfield. No. 1,040,259; Oct. 8; Gaz. vol. 183; p. 226.

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Packing for elastic-fluid turbines. J. Wilkinson. No. 1,021,225; Mar. 26; Sp. p. 4716; Gaz. vol. 176; p. 862.
Packing for engine piston-rods and the like, Flexible. A. C. Judd. No. 1,038,759; Sept. 17; Gaz. vol. 182; p. 604.
Packing for journal-boxes. R. J. Evans. No. 1,044,636; Nov. 19; Gaz. vol. 184; p. 615.
Packing for piston and like rods, Metallic. R. Copeland. No. 1,034,425; Aug. 6; Gaz. vol. 181; p. 9.
Packing for piston-rods, &c. C. I. E. Mastin. No. 1,018,202; Feb. 20; Sp. p. 4375; Gaz. vol. 175; p. 751.
Packing for reciprocating rods. I. J. Bent. No. 1,040,494; Oct. 8; Gaz. vol. 183; p. 396.
Packing for rotary engines. F. A. Parsons and J. H. Myers. No. 1,027,500; May 28; Sp. p. 5301; Gaz. vol. 178; p. 928.
Packing for shafts, &c. S. Z. de Ferranti. No. 1,033,237; July 23; Gaz. vol. 180; p. 943.
Packing for slide-valves. E. H. Tartrais. No. 1,031,973; July 9; Gaz. vol. 180; p. 432.
Packing for testing-machines. T. Olsen. No. 1,036,314; Aug. 20; Gaz. vol. 181; p. 719.
Packing-gland. E. D. Taylor. No. 1,020,780; Mar. 19; Sp. p. 3785; Gaz. vol. 176; p. 663.
Packing-gland. J. Hampson. No. 1,047,799; Dec. 17; Gaz. vol. 185; p. 768.
Packing-houses, Carcass-shifting apparatus for. P. S. Meister. No. 1,036,297; Aug. 20; Gaz. vol. 181; p. 713.
Packing-joint. H. T. Cronk. No. 1,019,766; Mar. 12; Sp. p. 1648; Gaz. vol. 176; p. 287.
Packing, Liquid. W. K. Richardson. No. 1,014,850; Jan. 16; Sp. p. 3933; Gaz. vol. 174; p. 666.
Packing loose material, Apparatus for. W. A. Cornbrooks. No. 1,013,277; Jan. 2; Sp. p. 408; Gaz. vol. 174; p. 66.
Packing, Lubricating-. W. H. Drury. No. 1,015,727; Jan. 23; Sp. p. 5809; Gaz. vol. 174; p. 991.
Packing-machine. F. J. Heybach. No. 1,016,498; Feb. 6; Sp. p. 593; Gaz. vol. 175; p. 92.
Packing-machine. I. Lázaga. No. 1,018,429; Feb. 27; Sp. p. 4860; Gaz. vol. 175; p. 861.
Packing-machine. S. Berti. No. 1,039,637; Sept. 24; Gaz. vol. 182; p. 923.
Packing-machine. G. H. Caughrean. No. 1,042,200; Oct. 22; Gaz. vol. 183; p. 953.
Packing, Making metallic. W. J. Wright. No. 1,018,149; Feb. 20; Sp. p. 4272; Gaz. vol. 175; p. 733.
Packing, Manufacturing journal-. H. B. Devlan. No. 1,033,553; July 23; Gaz. vol. 180; p. 1047.
Packing means. G. P. Herrick. No. 1,048,693; Dec. 31; Gaz. vol. 185; p. 1139.
Packing mechanism. H. K. King. No. 1,041,808; Oct. 22; Gaz. vol. 183; p. 823.
Packing, Metallic. W. J. Wright. No. 1,018,349; Feb. 20; Sp. p. 4653; Gaz. vol. 175; p. 800.
Packing, Metallic. J. A. Simon. No. 1,020,456; Mar. 19; Sp. p. 3064; Gaz. vol. 176; p. 555.
Packing, Metallic. E. Wisch. No. 1,023,189; Apr. 16; Sp. p. 3112; Gaz. vol. 177; p. 556.
Packing, Metallic. J. V. Clark. No. 1,034,768; Aug. 6; Gaz. vol. 181; p. 123.
Packing, Metallic. P. Conniff. No. 1,035,859; Aug. 20; Gaz. vol. 181; p. 560.
Packing, Metallic. A. Christenson. No. 1,048,657; Dec. 31; Gaz. vol. 185; p. 1125.
Packing, Metallic rod-. C. W. G. King. No. 1,017,674; Feb. 20; Sp. p. 3146; Gaz. vol. 175; p. 567.
Packing, Metallic rod-. A. Gottwald. No. 1,027,043; May 21; Sp. p. 4340; Gaz. vol. 178; p. 736.
Packing, Moisture-proof. R. V. Collins. (Reissue.) No. 13,409; Apr. 30; Sp. p. 7231; Gaz. vol. 177; p. 1267.
Packing or shipping box. J. G. Reber. No. 1,046,018; Dec. 3; Gaz. vol. 185; p. 74.
Packing or stuffing articles, Apparatus for. H. S. Dean. No. 1,022,305; Apr. 2; Sp. p. 1151; Gaz. vol. 177; p. 185.
Packing-pads, Apparatus for manufacturing. E. W. Goodrick. No. 1,018,181; Feb. 20; Sp. p. 4337; Gaz. vol. 175; p. 745.
Packing, Piston-. H. Gulbranson. No. 1,032,204; July 9; Gaz. vol. 180; p. 509.
Packing, Piston-rod and valve-stem. W. D. Kesselring. No. 1,021,683; Mar. 26; Sp. p. 5660; Gaz. vol. 176; p. 1019.
Packing, Plunger and cylinder. P. Grabler. No. 1,016,561; Feb. 6; Sp. p. 771; Gaz. vol. 175; p. 113.
Packing-ring. W. W. Price. No. 1,020,115; Mar. 12; Sp. p. 2365; Gaz. vol. 176; p. 404.
Packing-ring. J. J. Sullivan. No. 1,022,341; Apr. 2; Sp. p. 1231; Gaz. vol. 177; p. 197.
Packing-ring. W. Teschemacher. No. 1,024,294; Apr. 23; Sp. p. 5432; Gaz. vol. 177; p. 951.
Packing-ring. C. H. Reynolds. No. 1,026,457; May 14; Sp. p. 3021; Gaz. vol. 178; p. 498.
Packing-ring. E. B. Campbell. No. 1,034,582; Aug. 6; Gaz. vol. 181; p. 60.
Packing-ring for rotating shafts, Divided. P. Wagner. No. 1,041,534; Oct. 15; Gaz. vol. 183; p. 694.
Packing-ring mold. C. H. Reynolds. No. 1,023,761; Apr. 16; Sp. p. 4204; Gaz. vol. 177; p. 738.
Packing-ring or gasket. F. A. Dickinson. No. 1,017,855; Feb. 20; Sp. p. 3591; Gaz. vol. 175; p. 629.
Packing-ring, Piston. W. Thompson. No. 1,031,744; July 9; Gaz. vol. 180; p. 354.
Packing-rings, Device for finishing piston. J. A. Sieben. No. 1,044,826; Nov. 19; Gaz. vol. 184; p. 682.
Packing-rings, Machine for making. R. B. Wasson. No. 1,016,380; Feb. 6; Sp. p. 311; Gaz. vol. 175; p. 50.
Packing, Rod-. E. D. Bangs. No. 1,034,953; Aug. 6; Gaz. vol. 181; p. 185.
Packing, Rod-. F. E. Shahan. No. 1,035,484; Aug. 13; Gaz. vol. 181; p. 397.
Packing, Rod-. J. C. Tudor. No. 1,045,460; Nov. 26; Gaz. vol. 184; p. 931.
Packing, Rotary-valve. C. O. Howard. No. 1,032,480; July 16; Gaz. vol. 180; p. 648.
Packing, Self-setting. A. R. Klingloff. No. 1,044,787; Nov. 19; Gaz. vol. 184; p. 670.
Packing, Shaft-. W. Clifford. No. 1,032,187; July 9; Gaz. vol. 180; p. 503.
Packing, Shaft-. C. B. Rearick. No. 1,047,988; Dec. 24; Gaz. vol. 185; p. 859.
Packing, Steam-joint. E. B. Tree. No. 1,036,032; Aug. 20; Gaz. vol. 181; p. 618.
Packing-table. A. L. Bausman and D. C. Cottreal. No. 1,023,103; Apr. 9; Sp. p. 2869; Gaz. vol. 177; p. 488.
Packing-table. W. E. Brock and S. H. Hubbard. No. 1,028,670; June 4; Sp. p. 1305; Gaz. vol. 179; p. 201.
Packing, Treating piston-. J. L. Crouse and H. R. Edgecomb. No. 1,039,702; Oct. 1; Gaz. vol. 183; p. 10.
Pad: *See* Blotting-pad; Calendar-pad; Cushion edge pad; Desk-pad; Envelop-pad; Footwear-pad; Form-pad; Harness-pad; Heating-pad; Inking-pad; Manifolding-pad; Mattress-pad; Obstetrical pad; Shoe-pad; Shoulder-pad; Stamp-pad; Truss-pad.
Pad-machine. A. C Peterson. No. 1,021,068; Mar. 26; Sp. p. 4375; Gaz. vol. 176; p. 812.
Paddle mechanism, Vessel. W. H. Witte. No. 1,034,179; July 30; Gaz. vol. 180; p. 1288.
Paddle-wheel, Self-dumping. F. J. Lockwood. No. 1,041,119; Oct. 15; Gaz. vol. 183; p. 554.
Paddle-wheel, Feathering. F. J. Schneider. No. 1,027,217 May 21; Sp. p. 4728; Gaz. vol. 178; p. 794.
Padlock. A. W. Dowe. No. 1,020,891; Mar. 19; Sp. p. 4008; Gaz. vol. 176; p. 699.
Padlock. J. E. Moberg. No. 1,028,246; June 4; Sp. p. 410; Gaz. vol. 179; p. 58.
Padlock. A. A. Page. No. 1,029,942; June 18; Sp. p. 4097; Gaz. vol. 179; p. 711.
Padlock. J. A. Giese. No. 1,031,335; July 2; Gaz. vol. 180; p. 171.
Padlock. J. A. Giese. No. 1,034,998; Aug. 6; Gaz. vol. 181; p. 199.
Padlock. G. S. Franki. No. 1,036,992; Aug. 27; Gaz. vol. 181; p. 981.
Padlock. J. A. Giese. No. 1,039,119; Sept. 24; Gaz. vol. 182; p. 741.
Padlock, Combination-. E. Porter. No. 1,028,960; June 11; Sp. p. 1938; Gaz. vol. 179; p. 334.
Padlock, Combination-. J. Lorey. No. 1,034,263; July 30; Gaz. vol. 180; p. 1318.
Padlock, Permutation-. S. F. Holmes. No. 1,018,616; Feb. 27; Sp. p. 5321; Gaz. vol. 175; p. 923.
Padlock, Permutation-. C. J. Evans. No. 1,021,456; Mar. 26; Sp. p. 5223; Gaz. vol. 176; p. 944.
Padlock, Permutation-. M. J. Lovett. No. 1,028,754; June 4; Sp. p. 1482; Gaz. vol. 179; p. 229.
Padlock, Permutation-. A. Rudy. No. 1,041,516; Oct. 15; Gaz. vol. 183; p. 687.
Padlock, Permutation-. W. D. Watkins. No. 1,048,772; Dec. 31; Gaz. vol. 185; p. 1165.
Padlock, Puzzle-. W. S. Rogers. No. 1,013,566; Jan. 2; Sp. p. 1030; Gaz. vol. 174; p. 165.
Padlock, Seal-. C. B. Lawler. No. 1,024,996; Apr. 30; Sp. p. 6992; Gaz. vol. 177; p. 1229.
Padlock, Seal-. L. C. Weyand. No. 1,048,438; Dec. 24; Gaz. vol. 185; p. 1009.
Page-turning device. S. C. King. No. 1,013,781; Jan. 2; Sp. p. 1520; Gaz. vol. 174; p. 241.
Paging and numbering machine. W. F. Heffner. No. 1,034,234; July 30; Gaz. vol. 180; p. 1307.
Pail. J. Danz, 2d. No. 1,031,053; July 2; Gaz. vol. 180; p. 73.
Pail. F. Reynolds. No. 1,042,272; Oct. 22; Gaz. vol. 183; p. 977.
Pail and cover, Milk-. A. F. Schneider. No. 1,047,574; Dec. 17; Gaz. vol. 185; p. 689.
Pail and cover therefor. L. T. Roenitz. No. 1,028,967; June 11; Sp. p. 1951; Gaz. vol. 179; p. 337.
Pail attachment, Milking-. W. W. Kimmel. No. 1,015,189; Jan. 16; Sp. p. 4628; Gaz. vol. 174; p. 780.
Pail, Collapsible dinner-. T. L. Scott and A. Liska. No. 1,033,831; July 30; Gaz. vol. 180; p. 1165.
Pail cover, Milk-. J. Lundgaard. No. 1,031,015; July 2; Gaz. vol. 180; p. 58.
Pail cover, Milk-. W. A. Metzger. No. 1,045,054; Nov. 19; Gaz. vol. 184; p. 761.
Pail, Dinner-. J. B. Tuttle. No. 1,024,231; Apr. 23; Sp. p. 5314; Gaz. vol. 177; p. 931.
Pail, Dinner-. R. J. Woodard. No. 1,026,543; May 14; Sp. p. 3184; Gaz. vol. 178; p. 527.

Alphabetical list of inventions—Continued.

Pail, Dinner-. D. P. Olson and S. C. Swartzfeger. No. 1,032,622; July 16; Gaz. vol. 180; p. 695.
Pail, Dinner-. D. J. Craig. No. 1,043,674; Nov. 5; Gaz. vol. 184; p. 223.
Pail, Dinner-. E. E. Potts. No. 1,046,642; Dec. 10; Gaz. vol. 185; p. 333.
Pail holder, Milk-. C. Ekvall. No. 1,048,303; Dec. 24; Gaz. vol. 185; p. 964.
Pail, Lard-. E. C. Ritchell. No. 1,029,029; June 11; Sp. p. 2089; Gaz. vol. 179; p. 360.
Pail, Milk-. L. Eubank. No. 1,028,339; June 4; Sp. p. 593; Gaz. vol. 179; p. 89.
Pail, Milk-. C. E. Bradford. No. 1,040,613; Oct. 8; Gaz. vol. 183; p. 350.
Pail, Milk-. A. Martin and O. D. Charles. No. 1,044,552; Nov. 19; Gaz. vol. 184; p. 585.
Pail, Milk-. H. J. Brown. No. 1,046,730; Dec. 10; Gaz. vol. 185; p. 365.
Pail, Milk-. S. W. Moore. No. 1,048,851; Dec. 31; Gaz. vol. 185; p. 1192.
Pail, Minnow-. L. A. Banta. No. 1,039,633; Sept. 24; Gaz. vol. 182; p. 922.
Pail-protector. T. H. Barnes. No. 1,023,982; Apr. 23; Sp. p. 4748; Gaz. vol. 177; p. 841.
Pail-rest. J. T. Fletcher. No. 1,040,249; Oct. 1; Gaz. vol. 183; p. 193.
Paint and varnish base. R. Lender and A. Koch. No. 1,019,666; Mar. 5; Sp. p. 1442; Gaz. vol. 176; p. 223.
Paint and varnish remover. C. M. E. Schroeder. No. 1,016,445; Feb. 6; Sp. p. 479; Gaz. vol. 175; p. 73.
Paint and varnish remover. J. S. Patty. No. 1,019,829; Mar. 12; Sp. p. 1755; Gaz. vol. 176; p. 308.
Paint and varnish remover. T. M. Devine. No. 1,024,926; Apr. 30; Sp. p. 6859; Gaz. vol. 177; p. 1205.
Paint and varnish remover. J. Nicles. No. 1,034,819; Aug. 6; Gaz. vol. 181; p. 141.
Paint and varnish remover. M. Goldstein. No. 1,045,785; Nov. 26; Gaz. vol. 184; p. 1046.
Paint and varnish vehicle. C. Ellis. No. 1,017,141; Feb. 13; Sp. p. 2033; Gaz. vol. 175; p. 349.
Paint-can. C. W. De Noon. No. 1,022,830; Apr. 9; Sp. p. 2313; Gaz. vol. 177; p. 395.
Paint composition and making same. A. C. Horn. No. 1,048,536; Dec. 31; Gaz. vol. 185; p. 1083.
Paint compound. W. N. Blakeman, Jr. No. 1,019,415; Mar. 5; Sp. p. 961; Gaz. vol. 176; p. 140.
Paint, Hydraulic-cement and water. W. P. D. Moross. No. 1,036,506; Aug. 20; Gaz. vol. 181; p. 787.
Paint-mixing apparatus. J. W. Hasburg. No. 1,025,396; May 7; Sp. p. 644; Gaz. vol. 178; p. 101.
Paint or other similar material, Machine for forming. J. W. Hasburg. No. 1,029,925; June 18; Sp. p. 4063; Gaz. vol. 179; p. 706.
Paint or varnish removing composition. J. M. Wilson. No. 1,036,946; Aug. 27; Gaz. vol. 181; p. 964.
Paint-package. J. W. Hasburg. No. 1,018,824; Feb. 27; Sp. p. 5769; Gaz. vol. 175; p. 996.
Paint-package. J. W. Hasburg. No. 1,029,926; June 18; Sp. p. 4065; Gaz. vol. 179; p. 706.
Paint, Producing ready-mixed. F. F. Bradley. No. 1,032,652; July 16; Gaz. vol. 180; p. 706.
Paint-remover. C. Ellis. No. 1,027,466; May 28; Sp. p. 5231; Gaz. vol. 178; p. 918.
Paint-remover. G. F. Sayres. No. 1,047,572; Dec. 17; Gaz. vol. 185; p. 689.
Paint-testing method and apparatus. A. M. Muckenfuss. No. 1,014,842; Jan. 16; Sp. p. 3911; Gaz. vol. 174; p. 663.
Paint, varnish, and finish remover. J. M. Wilson and H. A. Harris. No. 1,046,926; Dec. 10; Gaz. vol. 185; p. 432.
Paint-vehicle and furniture-polish. J. A. Routhier. No. 1,017,323; Feb. 13; Sp. p. 2428; Gaz. vol. 175; p. 412.
Painted, Device for preparing surfaces to be. N. B. Gregg. No. 1,026,436; May 14; Sp. p. 2971; Gaz. vol. 178; p. 492.
Painter's detachable suspension-hook. C. F. Thruman. No. 1,040,462; Oct. 8; Gaz. vol. 183; p. 295.
Painters' stages, Attachment for. C. E. Sharp. No. 1,017,599; Feb. 13; Sp. p. 2985; Gaz. vol. 175; p. 504.
Painting. N. B. Gregg. No. 1,017,410; Feb. 13; Sp. p. 2607; Gaz. vol. 175; p. 442.
Painting and colored weatherproof architectural ornament, Fresco-. E. Börner. No. 1,044,859; Nov. 19; Gaz. vol. 184; p. 692.
Painting-machine, Pneumatic-power. F. Dykes and D. E. Wells. No. 1,034,988; Aug. 6; Gaz. vol. 181; p. 196.
Painting, varnishing, filling, or otherwise coating boards or other pieces of material, Machine for. W. W. Nuss. No. 1,026,921; May 21; Sp. p. 4042; Gaz. vol. 178; p. 693.
Paintings and similar art objects, Means for preserving oil-. K. Mussback. No. 1,031,727; July 9; Gaz. vol. 180; p. 347.
Pallet-cleaning machine. J. S. Collins. No. 1,045,677; Nov. 26; Gaz. vol. 184; p. 1009.
Pamphlet-covering machine. P. Pachter. No. 1,033,265; July 23; Gaz. vol. 180; p. 953.
Pamphlets or magazines, Making. R. C. Seymour. No. 1,015,745; Jan. 23; Sp. p. 5850; Gaz. vol. 174; p. 997.
Pan: *See* Ash-pan; Baker's pan; Baker's drip-pan; Baking-pan; Bed-pan; Bread-pan; Cake-pan; Chafing-dish pan; Dish-washing pan; Drip-pan; Evaporating-pan; Locomotive ash-pan; Milk-pan; Oil-cake pan; Refrigerator drip-pan; Sewing-machine drip-pan; Syrup-pan.
Pan-handling device, Baking-. R. Kallman. No. 1,031,649; July 2; Gaz. vol. 180; p. 277.
Pan-making machine. W. O. Daly and L. Lerio. No. 1,044,356; Nov. 12; Gaz. vol. 184; p. 488.
Pancreas preparation suitable for the treatment of diabetes. G. Zuelzer. No. 1,027,790; May 28; Sp. p. 5884; Gaz. vol. 178; p. 1024.
Pane-fastener. N. Baloian. No. 1,017,196; Feb. 13; Sp. p. 2150; Gaz. vol. 175; p. 368.
Panel-board. R. H. Olley. No. 1,027,147; May 21; Sp. p. 4590; Gaz. vol. 178; p. 771.
Panel-board. H. F. Krantz. No. 1,047,086; Dec. 10; Gaz. vol. 185; p. 483.
Panel-board construction. E. S. Morrell. No. 1,040,381; Oct. 8; Gaz. vol. 183; p. 268.
Panel-board corner-iron. H. Krantz. No. 1,047,084; Dec. 10; Gaz. vol. 185; p. 482.
Panel, Metering-. H. F. Krantz. No. 1,047,085; Dec. 10; Gaz. vol. 185; p. 482.
Panel-operating device. A. Krell. No. 1,015,029; Jan. 16; Sp. p. 4323; Gaz. vol. 174; p. 727.
Panel-section joining and finishing frame. J. A. McLean. No. 1,045,996; Dec. 3; Gaz. vol. 185; p. 67.
Paneling, Metallic. E. G. Budd. No. 1,045,507; Nov. 26; Gaz. vol. 184; p. 948.
Panic-lock. H. G. Voight. No. 1,025,102; Apr. 30; Sp. p. 7208; Gaz. vol. 177; p. 1262.
Pantograph. A. B. Lyon. No. 1,014,012; Jan. 9; Sp. p. 2059; Gaz. vol. 174; p. 347.
Pantographic apparatus for use of sculptors. J. Ettl. No. 1,037,460; Sept. 3; Gaz. vol. 182; p. 97.
Pants or diaper-cover, Baby. V. Guinzburg. No. 1,033,097; July 23; Gaz. vol. 180; p. 895.
Paper and like bags, Machine for making. J. Graham. No. 1,032,366; July 9; Gaz. vol. 180; p. 566.
Paper and like blocks, Manufacturing perforated tear-off. J. Goebel. No. 1,025,620; May 7; Sp. p. 1159; Gaz. vol. 178; p. 177.
Paper and like machinery. R. G. Hutchison. No. 1,040,338; Oct. 8; Gaz. vol. 183; p. 254.
Paper and like materials, Apparatus for use in the manufacture or treatment of pulp for making. H. Arledter. No. 1,048,123; Dec. 24; Gaz. vol. 185; p. 905.
Paper and product thereof, Making. R. A. Marr. No. 1,046,475; Dec. 10; Gaz. vol. 185; p. 274.
Paper, Apparatus for treating waste vegetable and textile fiber for the manufacture of. L. Harz. No. 1,039,941; Oct. 1; Gaz. vol. 183; p. 89.
Paper, &c., Apparatus for use in the production of printed and embossed wall-. H. W. Sanderson. No. 1,041,678; Oct. 15; Gaz. vol. 183; p. 741.
Paper, Artificially-strengthened. A. Smith. No. 1,014,341; Jan. 9; Sp. p. 2799; Gaz. vol. 174; p. 463.
Paper, Attaching wall-. C. R. Frantz. No. 1,026,793; May 21; Sp. p. 3751; Gaz. vol. 178; p. 649.
Paper bag. D. Cutler. No. 1,015,007; Jan. 16; Sp. p. 4284; Gaz. vol. 174; p. 720.
Paper bag. J. H. Bartlett. No. 1,027,168; May 21; Sp. p. 4629; Gaz. vol. 178; p. 777.
Paper bag. D. Appel. No. 1,029,783; June 18; Sp. p. 3721; Gaz. vol. 179; p. 655.
Paper bag. C. B. Sanders. No. 1,029,893; June 18; Sp. p. 3986; Gaz. vol. 179; p. 694.
Paper-bag-delivery machine. E. B. Shanks. No. 1,019,093; Mar. 5; Sp. p. 189; Gaz. vol. 176; p. 30.
Paper-bag holder. O. R. Hammer. No. 1,014,390; Jan. 9; Sp. p. 2901; Gaz. vol. 174; p. 480.
Paper-bag holder. H. L. Snyder. No. 1,038,980; Sept. 17; Gaz. vol. 182; p. 679.
Paper-bag machine. E. F. Müller. No. 1,020,773; Mar. 19; Sp. p. 3769; Gaz. vol. 176; p. 661.
Paper-bag machine. W. A. Lorenz. No. 1,029,700; June 18; Sp. p. 3549; Gaz. vol. 179; p. 627.
Paper-bag machine. W. A. Lorenz and J. Merritt. No. 1,029,701; June 18; Sp. p. 3553; Gaz. vol. 179; p. 628.
Paper-bag machine. J. D. King and H. Irving. No. 1,030,783; June 25; Sp. p. 6188; Gaz. vol. 179; p. 1046.
Paper-bag-making machine. T. Hugo. No. 1,021,778; Apr. 2; Sp. p. 46; Gaz. vol. 177; p. 11.
Paper-bag-opening device. M. and S. Blogg. No. 1,045,116; Nov. 26; Gaz. vol. 184; p. 811.
Paper-bag rack. C. J. Taber. No. 1,031,595; July 2; Gaz. vol. 180; p. 258.
Paper-bag-suspending means. H. L. Roberts. No. 1,019,187; Mar. 5; Sp. p. 400; Gaz. vol. 176; p. 63.
Paper bags, Making. J. Merritt. No. 1,029,706; June 18; Sp. p. 3569; Gaz. vol. 179; p. 630.
Paper bags, Making. C. F. Smith. No. 1,041,361; Oct. 15; Gaz. vol. 183; p. 637.
Paper bags, Manufacture of. D. Appel. No. 1,029,784; June 18; Sp. p. 3723; Gaz. vol. 179; p. 655.
Paper-baler. A. E. Beall and C. F. Skellenger. No. 1,023,984; Apr. 23; Sp. p. 4752; Gaz. vol. 177; p. 843.
Paper-blank-feeding machine. E. E. Claussen and E. A. Claus. No. 1,047,172; Dec. 17; Gaz. vol. 185; p. 544.

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Paper-blank-forming machine. C. Holly. No. 1,040,987; Oct. 8; Gaz. vol. 183; p. 478.
Paper-board, Corrugated. G. W. Swift, Jr. No. 1,032,789; July 16; Gaz. vol. 180; p. 754.
Paper-board cutter. G. Donat. No. 1,034,088; July 30; Gaz. vol. 180; p. 1257.
Paper-board-making machine, Multiple-ply-. R. M. Scanlan. No. 1,018,588; Feb. 27; Sp. p. 5272; Gaz. vol. 175; p. 916.
Paper-board manufacturing machine. P. G. Klotz. No. 1,026,870; May 21; Sp. p. 3905; Gaz. vol. 178; p. 675.
Paper-board, Reinforced. E. D. Bennett. No. 1,014,996; Jan. 16; Sp. p. 4265; Gaz. vol. 174; p. 716.
Paper bottle, Sanitary. W. Giesseman. No. 1,039,379; Sept. 24; Gaz. vol. 182; p. 834.
Paper bottles and like objects, Machine for making. H. R. Heyl. No. 1,018,319; Feb. 20; Sp. p. 4600; Gaz. vol. 175; p. 790.
Paper bottles, &c., Machine for manufacturing. H. R. Heyl. No. 1,024,938; Apr. 30; Sp. p. 6882; Gaz. vol. 177; p. 1208.
Paper bottles or containing vessels, Manufacturing. E. T. Greenfield. No. 1,016,327; Feb. 6; Sp. p. 207; Gaz. vol. 175; p. 32.
Paper box. H. G. Whitehead. No. 1,022,992; Apr. 9; Sp. p. 2640; Gaz. vol. 177; p. 450.
Paper box. M. Gluckman. No. 1,043,091; Nov. 5; Gaz. vol. 184; p. 15.
Paper box and carton manufacturing machine. P. G. Klotz. No. 1,046,078; Dec. 3; Gaz. vol. 185; p. 96.
Paper-box blanks, Device for cutting and scoring. M. P. Daven. No. 1,027,822; May 28; Sp. p. 5968; Gaz. vol. 178; p. 1036.
Paper-box blanks, Piecing-machine for. A. Worcester. No. 1,041,554; Oct. 15; Gaz. vol. 183; p. 699.
Paper box, Folding. J. T. Ferres. No. 1,030,294; June 25; Sp. p. 4858; Gaz. vol. 179; p. 869.
Paper box, Folding. S. D. Gazzolo. No. 1,041,992; Oct. 22; Gaz. vol. 183; p. 886.
Paper box for culture-tubes and similar articles. P. B. Myers. No. 1,021,998; Apr. 2; Sp. p. 529; Gaz. vol. 177; p. 83.
Paper box for liquids. F. W. Bauer and P. Knuppen. No. 1,046,945; Dec. 10; Gaz. vol. 185; p. 437.
Paper-box-forming machine. A. G. Wobus and W. L. Humphreys. No. 1,017,836; Feb. 20; Sp. p. 3546; Gaz. vol. 175; p. 623.
Paper-box junction device. H. N. Gores. No. 1,014,297; Jan. 9; Sp. p. 2677; Gaz. vol. 174; p. 447.
Paper-box machine. C. T. Upton and G. S. Gilman. No. 1,037,372; Sept. 3; Gaz. vol. 182; p. 65.
Paper-box machines, Paper feeding mechanism for. H. Inman. No. 1,030,183; June 18; Sp. p. 4598; Gaz. vol. 179; p 792.
Paper-box machines, Paper-severing attachment for. E. J. Schoettle and C. A. Garrett. No. 1,032,781; July 16; Gaz. vol. 180; p. 751.
Paper-box-making machine. R. Högfeldt. No. 1,016,266; Feb. 6; Sp. p. 48; Gaz. vol. 175; p. 10.
Paper-box-making machine. V., J., and W. Ragona. No. 1,019,276; Mar. 5; Sp. p. 587; Gaz. vol. 176; p. 94.
Paper-box-making machine. H. G. Kerr. No. 1,020,763; Mar. 19; Sp. p. 3746; Gaz. vol. 176; p. 657.
Paper-box-making machine. E. Jagenberg. No. 1,021,315; Mar. 26; Sp. p. 4895; Gaz. vol. 176; p. 894.
Paper-box stay, Compound. W. G. Chapin. No. 1,039,363; Sept. 24; Gaz. vol. 182; p. 828.
Paper boxes, Reinforcing. C. S. Bird. No. 1,022,923; Apr. 9; Sp. p. 2500; Gaz. vol. 177; p. 426.
Paper capsule for internally and externally covering the necks of bottles or the like. M. Von der Heyden. No. 1,030,948; July 2; Gaz. vol. 180; p. 34.
Paper, cardboard, &c., Manufacture of. O. E. Tingberg. No. 1,048,110; Dec. 24; Gaz. vol. 185; p. 900.
Paper carpet. G. H. Davis. No. 1,038,094; Sept. 10; Gaz. vol. 182; p. 341.
Paper carpet. G. H. Davis. No. 1,038,095; Sept. 10; Gaz. vol. 182; p. 341.
Paper-cleaner holder, Wall-. W. J. Rowley and J. G. Albright. No. 1,015,210; Jan. 16; Sp. p. 4666; Gaz. vol. 174; p. 788.
Paper-clip. J. H. Irvin. No. 1,019,256; Mar. 5; Sp. p. 548; Gaz. vol. 176; p. 87.
Paper-clip. R. J. Northam. No. 1,019,348; Mar. 5; Sp. p. 773; Gaz. vol. 176; p. 119.
Paper-clip. J. M. Reams. No. 1,044,572; Nov. 19; Gaz. vol. 184; p. 592.
Paper containing water-marks of various designs, Making patterns for the manufacture of. J. Kloiber. No. 1,041,301; Oct. 15; Gaz. vol. 183; p. 617.
Paper-corrugator. E. C. Rinner. No. 1,022,002; Apr. 2; Sp. p. 542; Gaz. vol. 177; p. 84.
Paper-creasing machine. G. H. Mallam. No. 1,013,411; Jan. 2; Sp. p. 704; Gaz. vol. 174; p. 112.
Paper-cup machine. E. E. Claussen and E. A. Claus. No. 1,047,173; Dec. 17; Gaz. vol. 185; p. 544.
Paper-cutter. M. Boyd. No. 1,014,041; Jan. 9; Sp. p. 2136; Gaz. vol. 174; p. 357.
Paper-cutter. C. P. Chrestensen. No. 1,014,567; Jan. 9; Sp. p. 3221; Gaz. vol. 174; p. 536.
Paper-cutter. H. R. Mainzer. No. 1,047,426; Dec. 17; Gaz. vol. 185; p. 636.
Paper-cutter attachment. M. O. Rose. No. 1,030,014; June 18; Sp. p. 4233; Gaz. vol. 179; p. 733.
Paper-cutter, Counter. J. L. Baber. No. 1,040,845; Oct. 8; Gaz. vol. 183; p. 428.
Paper cutting and collecting machine. H. D. Black. No. 1,027,099; May 21; Sp. p. 4484; Gaz. vol. 178; p. 756.
Paper-cutting machine. D. T. Wadhams. No. 1,028,919; June 11; Sp. p. 1851; Gaz. vol. 179; p. 321.
Paper-cutting machine. D. T. Wadhams. No. 1,028,920; June 11; Sp. p. 1857; Gaz. vol. 179; p. 322.
Paper-cutting machine. T. C. Dexter and G. H. Holdt. No. 1,036,975; Aug. 27; Gaz. vol. 181; p. 975.
Paper-cutting machine. G. Berger. No. 1,040,262; Oct. 8; Gaz. vol. 183; p. 227.
Paper-cutting-machine safety-lock. C. Seybold. No. 1,040,441; Oct. 8; Gaz. vol. 183; p. 288.
Paper-cutting machines, Back gage for. G. H. Holdt. No. 1,018,111; Feb. 20; Sp. p. 4180; Gaz. vol. 175; p. 719.
Paper-cutting mechanism. A. Laukhuff. (Reissue.) No. 13,486; Nov. 12; Gaz. vol. 184; p. 526.
Paper cutting, ruling, and assembling machine for making tablets. G. F. McAdams. No. 1,028,476; June 4; Sp. p. 918; Gaz. vol. 179; p. 137.
Paper-dispensing apparatus. A. Rydquist. No. 1,025,312; May 7; Sp. p. 455; Gaz. vol. 178; p. 72.
Paper-dispensing apparatus. A. Rydquist. No. 1,026,128; May 14; Sp. p. 2298; Gaz. vol. 178; p. 387.
Paper doll. C. O. Chester. No. 1,026,624; May 14; Sp. p. 3359; Gaz. vol. 178; p. 554.
Paper drinking-cup. W. E. Claussen. No. 1,020,187; Mar. 12; Sp. p. 2522; Gaz. vol. 176; p. 428.
Paper drinking-cup. C. M. Gage, Jr. No. 1,039,723; Oct. 1; Gaz. vol. 183; p. 18.
Paper drinking-cup. R. R. Richardson. No. 1,042,824; Oct. 29; Gaz. vol. 183; p. 1198.
Paper, Drying apparatus for printed sheets of. W. A. Spurrier. No. 1,037,075; Aug. 27; Gaz. vol. 181; p. 1008.
Paper-facing machine, Corrugated-. J. N. Hahn. No. 1,015,385; Jan. 23; Sp. p. 5069; Gaz. vol. 174; p. 874.
Paper feed and cut-off. W. F. Harbrecht. No. 1,039,124; Sept. 24; Gaz. vol. 182; p. 742.
Paper-feeds, Back-stop attachment for. F. A. Hazard. No. 1,014,147; Jan. 9; Sp. p. 2349; Gaz. vol. 174; p. 393.
Paper-feeding device. A. D. Pejeau. No. 1,013,308; Jan. 2; Sp. p. 491; Gaz. vol. 174; p. 77.
Paper-feeding device. W. McConnell. No. 1,018,577; Feb. 27; Sp. p. 5251; Gaz. vol. 175; p. 912.
Paper-feeding device. W. Matthews. No. 1,045,418; Nov. 26; Gaz. vol. 184; p. 915.
Paper-feeding machine. T. C. Dexter and R. E. Jones. No. 1,022,776; Apr. 9; Sp. p. 2197; Gaz. vol. 177; p. 377.
Paper-feeding machine. F. G. Nind and F. Julyan. No. 1,047,689; Dec. 17; Gaz. vol. 185; p. 731.
Paper-feeding machines, Sheet-registering mechanism for. T. C. Dexter and V. Garner. No. 1,040,168; Oct. 1; Gaz. vol. 183; p. 166.
Paper-feeding mechanism. H. C. Osborn. No. 1,023,869; Apr. 23; Sp. p. 4486; Gaz. vol. 177; p. 804.
Paper-feeding mechanism. J. J. Zeitz. No. 1,046,245; Dec. 3; Gaz. vol. 185; p. 156.
Paper-feeding mechanism. H. C. Gammeter. No. 1,047,037; Dec. 10; Gaz. vol. 185; p. 467.
Paper-feeding mechanism, Table-operating device for. J. W. Duffy. No. 1,037,220; Sept. 3; Gaz. vol. 182; p. 14.
Paper-folder. L. A. Nichols. No. 1,015,580; Jan. 23; Sp. p. 5497; Gaz. vol. 174; p. 940.
Paper folding and cutting machine. J. A. Polley. No. 1,032,296; July 9; Gaz. vol. 180; p. 541.
Paper-folding apparatus. E. A. Normand. No. 1,046,325; Dec. 3; Gaz. vol. 185; p. 184.
Paper-folding box. M. Gluckman. No. 1,016,884; Feb. 6; Sp. p. 1430; Gaz. vol. 175; p. 222.
Paper-folding machine. F. Julyan. No. 1,046,193; Dec. 3; Gaz. vol. 185; p. 135.
Paper-folding machine. F. G. Nind and F. Julyan. No. 1,047,688; Dec. 17; Gaz. vol. 185; p. 730.
Paper from peat, Manufacture of. B. Granville. No. 1,038,565; Sept. 17; Gaz. vol. 182; p. 536.
Paper from walls, Apparatus for removing old. W. C. Roberts and G. E. Corser. No. 1,018,345; Feb. 20; Sp. p. 4645; Gaz. vol. 175; p. 798.
Paper-guide. A. U. Davis. No. 1,040,901; Oct. 8; Gaz. vol. 183; p. 446
Paper-hanging device, Wall-. M. F. Randle. No. 1,017,019; Feb. 13; Sp. p. 1747; Gaz. vol. 175; p. 305.
Paper-hanging device, Wall-. W. J. Dunn and H. B. Taylor. No. 1,045,826; Dec. 3; Gaz. vol. 185; p. 11.
Paper-hanging device, Wall-. W. J. Dunn and H. B. Taylor. No. 1,046,452; Dec. 10; Gaz. vol. 185; p. 265.
Paper-hanging device, Wall-. W. J. Dunn and H. B. Taylor. No. 1,046,744; Dec. 10; Gaz. vol. 185; p. 370.
Paper-hanging machine. E. Brown. No. 1,044,484; Nov. 19; Gaz. vol. 184; p. 562.
Paper-holder. A. W. Johnson. No. 1,016,270; Feb. 6; Sp. p. 60; Gaz. vol. 175; p. 12.

Paper-holder. G. F. Jones. No. 1,017,673; Feb. 20; Sp. p. 3145; Gaz. vol. 175; p. 567.
Paper-holder. A. J. Farrell. No. 1,018,817; Feb. 27; Sp. p. 5756; Gaz. vol. 175; p. 993.
Paper-holder. A. Lesperance. No. 1,021,154; Mar. 26; Sp. p. 4559; Gaz. vol. 176; p. 838.
Paper holder and cutter, Roll-. J. H. King and C. B. Miller. No. 1,038,150; Sept. 10; Gaz. vol. 182; p. 359.
Paper holder, Toilet-. E. Jerome. No. 1,046,070; Dec. 3; Gaz. vol. 185; p. 93.
Paper holder, Wrapping-. S. L. Vinson. No. 1,033,500; July 23; Gaz. vol. 180; p. 1029.
Paper holder, Wrapping-. M. M. Ray. No. 1,043,626; Nov. 5; Gaz. vol. 184; p. 206.
Paper imitating felt and making the same, Puffed. A. L. Clapp. No. 1,038,086; Sept. 10; Gaz. vol. 182; p. 338.
Paper-machine. P. R. Thom. No. 1,018,850; Feb. 27; Sp. p. 5810; Gaz. vol. 175; p. 1004.
Paper-machine. C. E. Pope. No. 1,022,378; Apr. 2; Sp. p. 1300; Gaz. vol. 177; p. 210.
Paper-machines, Blower and shower for. O. Baker and E. J. McCarty. No. 1,019,013; Mar. 5; Sp. p. 4; Gaz. vol. 176; p. 3.
Paper-machines, &c., Suction apparatus for. A. E. Binns. No. 1,040,126; Oct. 1; Gaz. vol. 183; p. 153.
Paper-machines, Web feeding and drying apparatus for. C. E. Pope. No. 1,022,379; Apr. 2; Sp. p. 1303; Gaz. vol. 177; p. 210.
Paper machinery. C. H. Hornbeck. No. 1,021,603; Mar. 26; Sp. p. 5532; Gaz. vol. 176; p. 993.
Paper-making machine. F. H. Fuller. No. 1,013,288; Jan. 2; Sp. p. 452; Gaz. vol. 174; p. 70.
Paper-making machine. F. A. Headson. No. 1,018,903; Feb. 27; Sp. p. 5926; Gaz. vol. 175; p. 1021.
Paper-making machine. W. H. Millspaugh. No. 1,025,822; May 7; Sp. p. 1563; Gaz. vol. 178; p. 247.
Paper-making machine. H. L. Kutter. No. 1,028,573; June 4; Sp. p. 1112; Gaz. vol. 179; p. 169.
Paper-making machine. R. G. Benedict. No. 1,032,107; July 9; Gaz. vol. 180; p. 475.
Paper-making machine and drying paper. T. H. Belcher and F. D. Wilson. No. 1,035,678; Aug. 13; Gaz. vol. 181; p. 462.
Paper-making-machine watermarking apparatus. J. Speed and A. Whitton. No. 1,018,849; Feb. 27; Sp. p. 5807; Gaz. vol. 175; p. 1003.
Paper-making machines, Automatic feed-regulating mechanism for. H. C. Ziemann. No. 1,019,580; Mar. 5; Sp. p. 1286; Gaz. vol. 176; p. 192.
Paper-making machines, Construction and means of operation of pulp-straining drums for. L. Marguet. No. 1,038,919; Sept. 17; Gaz. vol. 182; p. 660.
Paper-making machines, Means for controlling the strainer-drums of. M. Lamort. No. 1,040,553; Oct. 8; Gaz. vol. 183; p. 328.
Paper-making machinery. W. E. Sheehan. No. 1,018,450; Feb. 27; Sp. p. 4904; Gaz. vol. 175; p. 867.
Paper-making, Making-wire for. J. C. Bell. No. 1,020,073; Mar. 12; Sp. p. 2267; Gaz. vol. 176; p. 390.
Paper-making stock and by-products, Converting wood into. B. F. Williamson. No. 1,025,356; May 7; Sp. p. 554; Gaz. vol. 178; p. 87.
Paper, Manufacture of parchment-. E. Fues. No. 1,033,757; July 23; Gaz. vol. 180; p. 1112.
Paper, Manufacturing very extensible. A. Geissler. No. 1,018,897; Feb. 27; Sp. p. 5907; Gaz. vol. 175; p. 1019.
Paper-marking device. W. L. Bear. No. 1,030,963; July 2; Gaz. vol. 180; p. 39.
Paper material, Treating vegetable and textile fiber, waste paper, wood-waste, and the like for conversion into. L. Herz. No. 1,041,791; Oct. 22; Gaz. vol. 183; p. 817.
Paper or other material, Machine for transparentizing sheets of. C. L. Crabb. No. 1,037,873; Sept. 10; Gaz. vol. 182; p. 266.
Paper package, Toilet-. W. E. Swift. No. 1,038,457; Sept. 10; Gaz. vol. 182; p. 466.
Paper packets, Machine for automatically making. O. Hesser. No. 1,020,821; Mar. 19; Sp. p. 3871; Gaz. vol. 176; p. 676.
Paper pails, Machine for forming and bailing. H. A. Inman. No. 1,038,145; Sept. 10; Gaz. vol. 182; p. 357.
Paper-perforating device. B. F. Berry. No. 1,014,442; Jan. 9; Sp. p. 2997; Gaz. vol. 174; p. 497.
Paper-polishing machine. H. Osborne. No. 1,046,218; Dec. 3; Gaz. vol. 185; p. 145.
Paper, Producing mottled or variegated. C. H. Waite and G. Walker. No. 1,017,931; Feb. 20; Sp. p. 3786; Gaz. vol. 175; p. 657.
Paper-pulp and freeing it from liquid, Plant for producing. H. Strieth. No. 1,023,445; Apr. 16; Sp. p. 3610; Gaz. vol. 177; p. 641.
Paper-pulp from old paper, Producing. C. K. Hähnle. No. 1,026,577; May 14; Sp. p. 3249; Gaz. vol. 178; p. 537.
Paper-pulp, &c., Rotary purifier for. C. Vigreux. No. 1,045,476; Nov. 26; Gaz. vol. 184; p. 937.
Paper-pulp-screening machine. B. D. Coppage. No. 1,037,597; Sept. 3; Gaz. vol. 182; p. 141.
Paper-pulp, &c., sorter. J. M. L. Spangenberg. No 1,042,724; Oct. 29; Gaz. vol. 183; p. 1163.
Paper-pulp-thickening machine. C. F. Powers. No. 1,046,108; Dec. 3; Gaz. vol. 185; p. 106.
Paper-rack and display device. C. J. Bryant. No. 1,021,656; Mar. 26; Sp. p. 5618; Gaz. vol. 176; p. 1011.
Paper, rags, &c., Apparatus for sorting and cleaning waste. J. Heess. No. 1,035,345; Aug. 13; Gaz. vol. 181; p. 350.
Paper receptacles, Forming. H. S. Wilson. No. 1,015,370; Jan. 23; Sp. p. 5034; Gaz. vol. 174; p. 869.
Paper receptacles, Machine for making. K. Otting. No. 1,015,268; Jan. 16; Sp. p. 4795; Gaz. vol. 174; p. 807.
Paper remover, Wall-. J. H. Foster. No. 1,021,184; Mar. 26; Sp. p. 4627; Gaz. vol. 176; p. 848.
Paper-roll-changing device. E. G. Robeson. No. 1,026,369; May 14; Sp. p. 2834; Gaz. vol. 178; p. 469.
Paper-roll holder. G. F. Kearney. No. 1,047,535; Dec. 17; Gaz. vol. 185; p. 674.
Paper-roll-making machine, Toilet-. F. Meisel. No. 1,037,284; Sept. 3; Gaz. vol. 182; p. 35.
Paper-roll shafts, Chuck for. C. D. Curry. No. 1,016,738; Feb. 6; Sp. p. 1134; Gaz. vol. 175; p. 174.
Paper rolls, Holder for toilet-. J. Nederland. No. 1,023,587; Apr. 16; Sp. p. 3899; Gaz. vol. 177; p. 686.
Paper samples, Combined carrier and display-rack for wall-. E. A. Small. No. 1,035,648; Aug. 13; Gaz. vol. 181; p. 452.
Paper sheets in sorting or similar machines, Device for cleaning or stripping. G. Spiess. No. 1,039,608; Sept. 24; Gaz. vol. 182; p. 913.
Paper, Sizing. S. R., W. L., and J. B. Wagg. No. 1,032,973; July 16; Gaz. vol. 180; p. 814.
Paper slitting and winding machine. P. Hellberg. No. 1,047,408; Dec. 17; Gaz. vol. 185; p. 629.
Paper-slitting machine. J. A. White. No. 1,026,482; May 14; Sp. p. 3073; Gaz. vol. 178; p. 506.
Paper-stapling machine. N. E. Gibson. No. 1,048,522; Dec. 31; Gaz. vol. 185; p. 1078.
Paper-stencil and producing same. F. D. and E. D. Belknap. No. 1,045,934; Dec. 3; Gaz. vol. 185; p. 47.
Paper-stock refining and distributing system. L. N. McIntyre. No. 1,026,819; May 21; Sp. p. 3795; Gaz. vol. 178; p. 657.
Paper-stock shredder. G. D. Rather. No. 1,023,762; Apr. 16; Sp. p. 4206; Gaz. vol. 177; p. 739.
Paper substitutes for hot-embossing purposes, Manufacture of metal-foil. F. C. Wickel. No. 1,047,867; Dec. 17; Gaz. vol. 185; p. 792.
Paper-surface-finishing machines, Roll for. J. Speed. No. 1,038,505; Sept. 10; Gaz. vol. 182; p. 481.
Paper-testing device. F. C. Blanchard, E. B. Crocker, and H. E. Eddy. No. 1,048,488; Dec. 31; Gaz. vol. 185; p. 1065.
Paper-testing machine. C. M. Munson. No. 1,019,721; Mar. 5; Sp. p. 1548; Gaz. vol. 176; p. 240.
Paper-testing machine. J. O. Stanley. No. 1,025,101; Apr. 30; Sp. p. 7206; Gaz. vol. 177; p. 1262.
Paper-testing machines, Operating mechanism for. F. P. Cleveland. No. 1,025,110; Apr. 30; Sp. p. 7220; Gaz. vol. 177; p. 1265.
Paper towel. F. G. Crane. No. 1,033,992; July 30; Gaz. vol. 180; p. 1223.
Paper towel and napkin package. W. H. Bond. No. 1,028,084; May 28; Sp. p. 6577; Gaz. vol. 178; p. 1122.
Paper-towel holder, Combination. C. C. Cloutman. No. 1,043,671; Nov. 5; Gaz. vol. 184; p. 222.
Paper-tube-forming machine. P. G. Kaiser. No. 1,034,915; Aug. 6; Gaz. vol. 181; p. 172.
Paper-tube-making apparatus. C. F. Jenkins. No. 1,047,946; Dec. 24; Gaz. vol. 185; p. 846.
Paper-tube-winding machine. W. R. Seigle. No. 1,040,437; Oct. 8; Gaz. vol. 183; p. 287.
Paper tubes, Constructing wound. W. R. Seigle. No. 1,040,438; Oct. 8; Gaz. vol. 183; p. 287.
Paper tubes, Machine for making conical. E. Z. Taylor. No. 1,020,165; Mar. 12; Sp. p. 2469; Gaz. vol. 176; p. 420.
Paper-tying apparatus or loose-leaf binder. T. F. Campbell. No. 1,013,125; Jan. 2; Sp. p. 75; Gaz. vol. 174; p. 14.
Paper vessel, Grease-proof. H. L. G. Moore. No. 1,041,504; Oct. 15; Gaz. vol. 183; p. 684.
Paper vessels, Apparatus for the manufacture of. E. Z. Taylor. No. 1,023,052; Apr. 9; Sp. p. 2760; Gaz. vol. 177; p. 471.
Paper vessels, Machine for making. L. Norman. No 1,042,953; Oct. 29; Gaz. vol. 183; p. 1241.
Paper-watermarking device. H. Brown. No. 1,014,635; Jan. 16; Sp. p. 3447; Gaz. vol. 174; p. 592.
Paper-winding reel. G. Miller. No. 1,031,568; July 2; Gaz. vol. 180; p. 249.
Paper wrapper. W. H. Fairchild. No. 1,013,143; Jan. 2; Sp. p. 104; Gaz. vol. 174; p. 19.
Papers, Apparatus for removing impurities from pulped waste. J. M. Burby. No. 1,013,529; Jan. 2; Sp. p. 958; Gaz. vol. 174; p. 154.
Papering device, Wall-. J. G. Work. No. 1,027,228; May 21; Sp. p. 4749; Gaz. vol. 178; p. 799.
Papering-machine. J. W. McCrary. No. 1,030,417; June 25; Sp. p. 5139; Gaz. vol. 179; p. 915.
Parachute. L. M. Nelson. No. 1,019,271; Mar. 5; Sp. p. 579; Gaz. vol. 176; p. 93.

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Parachute. J. J. Tanner. No. 1,019,858; Mar. 12; Sp. p. 1818; Gaz. vol. 176; p. 318.
Parachute. C. L. Willard. No. 1,028,517; June 4; Sp. p. 998; Gaz. vol. 179; p. 151.
Parachute. L. J. Rouchleau. No. 1,040,241; Oct. 1; Gaz. vol. 183; p. 190.
Parachute and helicopter, Combined. N. W. Knight. No. 1,021,784; Apr. 2; Sp. p. 61; Gaz. vol. 177; p. 13.
Parachute and the like. B. W. Compton. No. 1,033,155; July 23; Gaz. vol. 180; p. 914.
Parachute apparatus. W. A. Hodge. No. 1,043,836; Nov. 12; Gaz. vol. 184; p. 309.
Parachute device. L. Miller. No. 1,037,959; Sept. 10; Gaz. vol. 182; p. 297.
Paraffin container and shaver. J. F. Craven. No. 1,036,968; Aug. 27; Gaz. vol. 181; p. 972.
Paraffin, Manufacturing. J. Tanne. No. 1,019,102; Mar. 5; Sp. p. 205; Gaz. vol. 176; p. 33.
Paraffin or the like, Apparatus for cooling. P. Porges and R. Neumann. No. 1,017,587; Feb. 13; Sp. p. 2963; Gaz. vol. 175; p. 500.
Parallel bars. M. B. Reach. No. 1,032,425; July 16; Gaz. vol. 180; p. 629.
Parasol. M. L. Sobra. No. 1,043,263; Nov. 5; Gaz. vol. 184; p. 77.
Parcel-tier. B. H. and R. N. Bunn. No. 1,038,843; Sept. 17; Gaz. vol. 182; p. 634.
Paring, coring, and slicing machine, Apple. A. Lyell. No. 1,019,675; Mar. 5; Sp. p. 1463; Gaz. vol. 176; p. 226.
Paring-knife. O. Wallman. No. 1,034,542; Aug. 6; Gaz. vol. 181; p. 47.
Paring-machine. H. T. Donovan. No. 1,013,280; Jan. 2; Sp. p. 414; Gaz. vol. 174; p. 67.
Paring machine, Apple-. W. A. C. Oaks. No. 1,039,998; Oct. 1; Gaz. vol. 183; p. 109.
Paring-machine attachment, Apple-. S. L. Coates. No. 1,019,600; Mar. 5; Sp. p. 1325; Gaz. vol. 176; p. 200.
Paring machine, Vegetable-. H. Robinson. No. 1,031,735; July 9; Gaz. vol. 180; p. 350.
Partition and wall-furring. H. Oliver. No. 1,023,526; Apr. 16; Sp. p. 3766; Gaz. vol. 177; p. 666.
Partition, Expansible. L. P. J. Farrell. No. 1,021,586; Mar. 26; Sp. p. 5497; Gaz. vol. 176; p. 988.
Pass-case, Pocket. E. C. Harrington. No. 1,021,598; Mar. 26; Sp. p. 5525; Gaz. vol. 176; p. 992.
Paste-jar. C. Puetz. No. 1,048,873; Dec. 31; Gaz. vol. 185; p. 1200.
Paste to labels, &c., Machine for applying. A. Potdevin. No. 1,040,009; Oct. 1; Gaz. vol. 183; p. 112.
Paste used as weavers' glue or for other similar dressing purposes, Preparing. P. Reimann. No. 1,021,744; Mar. 26; Sp. p. 5791; Gaz. vol. 176; p. 1039.
Pastes, Machine for cutting dried. K. Gammel. No. 1,029,059; June 11; Sp. p. 2146; Gaz. vol. 179; p. 370.
Pasting device. J. W. Collins. No. 1,042,325; Oct. 22; Gaz. vol. 183; p. 995.
Pasting device, Flap-. E. F. Ball. No. 1,044,334; Nov. 12; Gaz. vol. 184; p. 481.
Pasting device, Wrapper-. J. J. Sleeper. No 1,033,282; July 23; Gaz. vol. 180; p. 959.
Pasting-machine. A. E. Nielsen. No. 1,034,492; Aug. 6; Gaz. vol. 181; p. 30.
Pasting-machine. S. S. Yenovkian. No. 1,036,771; Aug. 27; Gaz. vol. 181; p. 906.
Pasting-machine. H. A. Inman. No. 1,036,851; Aug. 27; Gaz. vol. 181; p. 934.
Pasteboard box. M. A. Platt. No. 1,019,833; Mar. 12; Sp. p. 1760; Gaz. vol. 176; p. 308.
Pasteurizer. C. H. Loew and A. Ruetschi. No. 1,017,777; Feb. 20; Sp. p. 3415; Gaz. vol. 175; p. 602.
Pasteurizer. F. J. Macnish. No. 1,023,323; Apr. 16; Sp. p. 3377; Gaz. vol. 177; p. 602.
Pasteurizer. H. O. Fisher. No. 1,046,577; Dec. 10; Gaz. vol. 185; p. 310.
Pasteurizing apparatus. A. A. Pindstofte. No. 1,027,894; May 28; Sp. p. 6189; Gaz. vol. 178; p. 1061.
Pasteurizing apparatus. C. Paulsen. No. 1,030,203; June 18; Sp. p. 4646; Gaz. vol. 179; p. 799.
Pasteurizing apparatus. W. F. E. Casse. No. 1,031,913; July 9; Gaz. vol. 180; p. 412.
Pasteurizing-machine. G. A. Fischer. No. 1,028,818; June 4; Sp. p. 1612; Gaz. vol. 179; p. 251.
Pastry cones, Machine for making. P. C. and O. A. Flagstad. No. 1,019,237; Mar. 5; Sp. p. 509; Gaz. vol. 176; p. 80.
Pastry cones, Machine for making. P. C. and O. A. Flagstad. No. 1,019,238; Mar. 5; Sp. p. 511; Gaz. vol. 176; p. 81.
Pastry cones, Machine for making. P. C. and O. A. Flagstad. No. 1,019,239; Mar. 5; Sp. p. 513; Gaz. vol. 176; p. 81.
Pastry-machines, Drip-remover for. A. S. Cairncross. No. 1,021,236; Mar. 26; Sp. p. 4741; Gaz. vol. 176; p. 866.
Pastry-making machine. E. H. Lanier and F. K. Driesbach. (Reissue.) No. 13,455; Aug. 6; Gaz. vol. 181; p. 243.
Pasty materials, such as chocolate, Apparatus for treating. E. L. A. Savy. No. 1,037,545; Sept. 3; Gaz. vol. 182; p. 125.
Patch and swing pocket, Combined. F. G. Dodshon. No. 1,033,790; July 30; Gaz. vol. 180; p. 1150.
Patient-supporter. C. Madsen. No. 1,015,812; Jan. 30; Sp. p. 5985; Gaz. vol. 174; p. 1047.
Pattern: *See* Coat-collar pattern.
Pattern. E. Pipher. No. 1,028,601; June 4; Sp. p. 1168; Gaz. vol. 179; p. 178.
Pattern. E. Pipher. No. 1,028,602; June 4; Sp. p. 1170; Gaz. vol. 179; p. 179.
Pattern-drawing device. H. Tscherning. No. 1,018,731; Feb. 27; Sp. p. 5562; Gaz. vol. 175; p. 962.
Pattern-generating apparatus. F. H. Perry. No. 1,027,562; May 28; Sp. p. 5422; Gaz. vol. 178; p. 950.
Pattern-machine. C. W. Conger. No. 1,013,130; Jan. 2; Sp. p. 81; Gaz. vol. 174; p. 15.
Pattern-rack. F. H. Tobbenboske. No. 1,028,978; June 11; Sp. p. 1975; Gaz. vol. 179; p. 341.
Pattern-stripping machine. W. F. Grill. No. 1,024,890; Apr. 30; Sp. p. 6774; Gaz. vol. 177; p. 1192.
Patty-shells, Making. W. Gategast. No. 1,036,092; Aug. 20; Gaz. vol. 181; p. 641.
Pavement. R. S. Blome and W. J. Sinek. No. 1,029,575; June 11; Sp. p. 3255; Gaz. vol. 179; p. 546.
Pavement, Brick. C. C. Pettit. No. 1,032,858; July 16; Gaz. vol. 180; p. 777.
Pavements, Expansion-joint for concrete. M. F. McCarthy. No. 1,033,431; July 23; Gaz. vol. 180; p. 1007.
Pavements, Reinforcing and protecting device for street-. W. M. Pindell. No. 1,034,504; Aug. 6; Gaz. vol. 181; p. 35.
Pavements, roads or streets, and cellar-floors or the like, Making. W. T. Headley. No. 1,035,787; Aug. 13; Gaz. vol. 181; p. 498.
Pavements, Tool for marking cement. L. W. McIntyre. No. 1,041,320; Oct. 15; Gaz. vol. 183; p. 624.
Paving. E. Alcott. No. 1,028,420; June 4; Sp. p. 783; Gaz. vol. 179; p. 118.
Paving. J. A. Bell, G. R. Wilton, and G. P. Griffith. No. 1,041,578; Oct. 15; Gaz. vol. 183; p. 707.
Paving-block. E. A. Tracy. No. 1,017,706; Feb. 20; Sp. p. 3210; Gaz. vol. 175; p. 577.
Paving-block. A. V. Sammis. No. 1,045,328; Nov. 26; Gaz. vol. 184; p. 883.
Paving-block machine. H. Devlin and H. W. Garland. No. 1,044,880; Nov. 19; Gaz. vol. 184; p. 701.
Paving-block, Wood. J. A. Cogswell. No. 1,017,650; Feb. 20; Sp. p. 3094; Gaz. vol. 175; p. 559.
Paving brick or block. J. M. Porter. No. 1,034,033; July 30; Gaz. vol. 180; p. 1239.
Paving, Buffer for use with wood. G. T. Vallée. No. 1,028,802; June 4; Sp. p. 1575; Gaz. vol. 179; p. 246.
Paving-joint. T. L. Moore. No. 1,040,731; Oct. 8; Gaz. vol. 183; p. 392.
Paving plant. F. A. Hetherington. No. 1,027,334; May 21; Sp. p. 4955; Gaz. vol. 178; p. 834.
Pawl and ratchet. E. P. Shrader. No. 1,048,104; Dec. 24; Gaz. vol. 185; p. 898.
Pawl-and-ratchet device. W. T. Taylor. No. 1,044,290; Nov. 12; Gaz. vol. 184; p. 466.
Pawl-and-ratchet mechanism. C. Andrade, Jr. No. 1,016,537; Feb. 6; Sp. p. 707; Gaz. vol. 175; p. 106.
Pawl-carrier. T. Disch. No. 1,034,691; Aug. 6; Gaz. vol. 181; p. 165.
Pea-dropper. D. H. Byrd. No. 1,014,447; Jan. 9; Sp. p. 3010; Gaz. vol. 174; p. 499.
Pea huller and separator. F. Hamachek. No. 1,035,184; Aug. 13; Gaz. vol. 181; p 292.
Pea-separating machine. G. J. Lange. No. 1,018,715; Feb. 27; Sp. p. 5528; Gaz. vol. 175; p. 957.
Peach-brushing apparatus. T. J. Miller and G. Allsup. No. 1,013,506; Jan. 2; Sp. p. 908; Gaz. vol. 174; p. 145.
Peanut cleaning and stemming machine. T. J. Whitmore No. 1,042,859; Oct. 29; Gaz. vol. 183; p. 1210.
Peanut-picker. T. M. Lilliston. No. 1,017,570; Feb. 13; Sp. p. 2936; Gaz. vol. 175; p. 496.
Peanut-picker. P. J. Theus. No. 1,022,342; Apr. 2; Sp. p. 1232; Gaz. vol. 177; p. 197.
Peanut-picking machine. J. L. Harrington. No. 1,035,437; Aug. 13; Gaz. vol. 181; p. 381.
Peanut-separator. W. T. Joyner. No. 1,035,447; Aug. 13; Gaz. vol. 181; p. 385.
Peat-block-turning apparatus. T. A. Mighill. No. 1,015,390; Jan. 23; Sp. p. 5079; Gaz. vol. 174; p. 875.
Peat bogs, &c., Implements for obtaining samples from. B. Granville. No. 1,027,246; May 21; Sp. p. 4782; Gaz. vol. 178; p. 805.
Peat-drying apparatus. A. S. Cairncross. No. 1,036,072; Aug. 20; Gaz. vol. 181; p. 633.
Peat, Drying raw. H. Brune and H. Horst. No. 1,033,779; July 30; Gaz. vol. 180; p. 1146.
Peat fuel, Preparing. T. Franke. No. 1,031,638; July 2; Gaz. vol. 180; p. 274.
Peat-machine. A. S. Cairncross. No. 1,019,946; Mar. 12; Sp. p. 2011; Gaz. vol. 176; p. 347.
Pedal-locking mechanism. J. W. Lambert. No. 1,014,069; Jan. 9; Sp. p. 2194; Gaz. vol. 174; p. 369.
Pedal mechanism. G. P. Brand. No. 1,013,857; Jan. 9; Sp. p. 1708; Gaz. vol. 174; p. 295.
Pedestal. E. G. Budd. No. 1,020,740; Mar. 19; Sp. p. 3705; Gaz. vol. 176; p. 649.

Alphabetical list of inventions—Continued.

Pedestal. E. G. Budd. No. 1,020,741; Mar. 19; Sp. p. 3706; Gaz. vol. 176; p. 650.
Pedestal. J. L. E. Jenkins. No. 1,039,134; Sept. 24; Gaz. vol. 182; p. 746.
Pedestal. H. W. Baerresen. No. 1,046,247; Dec. 3; Gaz. vol. 185; p. 156.
Pedestal, Folding. P. F. Meyer. No. 1,024,453; Apr. 23; Sp. p. 5764; Gaz. vol. 177; p. 1002.
Peeler, Tomato-. A. J. and C. E. Williams. No. 1,023,700; Apr. 16; Sp. p. 4102; Gaz. vol. 177; p. 720.
Peeling machine, Fruit-. J. W. Carmochan. No. 1,040,507; Oct. 8; Gaz. vol. 183; p. 311.
Peeling machine, Potato-. G. S. Blakeslee. No. 1,035,771; Aug. 13; Gaz. vol. 181; p. 493.
Peeling machine, Potato-. G. S. Blakeslee. No. 1,039,689; Oct. 1; Gaz. vol. 183; p. 5.
Pegging-machine. O. Ashton. No. 1,021,815; Apr. 2; Sp. p. 121; Gaz. vol. 177; p. 24.
Pegging-machine. R. F. McFeely. No. 1,028,240; June 4; Sp. p. 392; Gaz. vol. 179; p. 56.
Pegging-machine. O. Ashton. No. 1,048,789; Dec. 31; Gaz. vol. 185; p. 1171.
Pegwood-sharpener. A. C. Fisher. No. 1,016,132; Jan. 30; Sp. p. 6671; Gaz. vol. 174; p. 1159.
Pen. F. Bumer. No. 1,033,533; July 23; Gaz. vol. 180; p. 1041.
Pen. R. P. De Vault. No. 1,037,215; Sept. 3; Gaz. vol. 182; p. 13.
Pen and pencil holder. G. P. Boardman. No. 1,029,415; June 11; Sp. p. 2941; Gaz. vol. 179; p. 492.
Pen and the like. P. J. Fouquier. No. 1,038,738; Sept. 17; Gaz. vol. 182; p. 597.
Pen attachment, Fountain-. A. Napolitano. No. 1,015,702; Jan. 23; Sp. p. 5765; Gaz. vol. 174; p. 983.
Pen attachment, Fountain-. W. A. Sheaffer. No. 1,046,660; Dec. 10; Gaz. vol. 185; p. 340.
Pen, Calendar-. L. Stefanowitch. No. 1,037,356; Sept. 3; Gaz. vol. 182; p. 60.
Pen clasp, Fountain-. T. K. Felch. No. 1,021,978; Apr. 2; Sp. p. 489; Gaz. vol. 177; p. 78.
Pen, Combination fountain-. F. I. Tolles. No. 1,042,726; Oct. 29; Gaz. vol. 183; p. 1164.
Pen, Drafting-. E. R. Smith. No. 1,022,111; Apr. 2; Sp. p. 763; Gaz. vol. 177; p. 121.
Pen, Drafting-. L. Bosi. No. 1,030,158; June 18; Sp. p. 4532; Gaz. vol. 179; p. 783.
Pen, Draftsman's. J. C. Ferger. No. 1,046,753; Dec. 10; Gaz. vol. 185; p. 374.
Pen, Duplex fountain-. G. A. Cooper. No. 1,035,538; Aug. 13; Gaz. vol. 181; p. 416.
Pen-extractor. H. S. Dana. No. 1,045,775; Nov. 26; Gaz. vol. 184; p. 1043.
Pen-filling device, Drawing-. S. B. Allen. No. 1,047,873; Dec. 17; Gaz. vol. 185; p. 793.
Pen, Fountain-. E. R. Smith. No. 1,019,196; Mar. 5; Sp. p. 420; Gaz. vol. 176; p. 66.
Pen, Fountain-. J. T. Wolfe. No. 1,019,874; Mar. 12; Sp. p. 1848; Gaz. vol. 176; p. 324.
Pen, Fountain-. F. W. Vaughn and H. J. Upton. No. 1,019,930; Mar. 12; Sp. p. 1982; Gaz. vol. 176; p. 343.
Pen, Fountain-. J. Rauchenecker. No. 1,020,221; Mar. 12; Sp. p. 2594; Gaz. vol. 176; p. 440.
Pen, Fountain-. A. L. Watts. No. 1,020,237; Mar. 12; Sp. p. 2629; Gaz. vol. 176; p. 445.
Pen, Fountain-. F. M. Ashley. No. 1,021,398; Mar. 26; Sp. p. 5104; Gaz. vol. 176; p. 924.
Pen, Fountain-. F. M. Ashley. No. 1,022,718; Apr. 9; Sp. p. 2080; Gaz. vol. 177; p. 357.
Pen, Fountain-. J. A. Vogelmann and C. F. Hovey. No. 1,023,447; Apr. 16; Sp. p. 3617; Gaz. vol. 177; p. 641.
Pen, Fountain-. M. O. Borbeck. No. 1,024,245; Apr. 23; Sp. p. 5343; Gaz. vol. 177; p. 936.
Pen, Fountain-. G. H. Carter. No. 1,030,502; June 25; Sp. p. 5342; Gaz. vol. 179; p. 945.
Pen, Fountain-. M. W. Moore. No. 1,031,282; July 2; Gaz. vol. 180; p. 153.
Pen, Fountain-. J. J. Mead. No. 1,032,848; July 16; Gaz. vol. 180; p. 773.
Pen, Fountain-. J. E. Swarthout. No. 1,034,661; Aug. 6; Gaz. vol. 181; p. 85.
Pen, Fountain-. F. W. Vaughn, Jr., and H. J. Upton. No. 1,035,665; Aug. 13; Gaz. vol. 181; p. 458.
Pen, Fountain-. G. Rentz. No. 1,036,149; Aug. 20; Gaz. vol. 181; p. 661.
Pen, Fountain-. F. Riesenberg. No. 1,037,660; Sept. 3; Gaz. vol. 182; p. 163.
Pen, Fountain-. T. Watanabe. No. 1,038,034; Sept. 10; Gaz. vol. 182; p. 321.
Pen, Fountain-. G. F. Barrett. No. 1,038,068; Sept. 10; Gaz. vol. 182; p. 332.
Pen, Fountain-. J. W. Laughlin. No. 1,042,695; Oct 29; Gaz. vol. 183; p. 1153.
Pen, Fountain-. J. W. Laughlin. No. 1,042,804; Oct. 29; Gaz. vol. 183; p. 1190.
Pen, Fountain-. H. W. Wood. No. 1,045,240; Nov. 26; Gaz. vol. 184; p. 854.
Pen, Fountain-. W. L. MacDonald. No. 1,046,821; Dec. 10; Gaz. vol. 185; p. 396.
Pen, Fountain-. G. E. Stuart and H. H. Oakley. No. 1,046,894; Dec. 10; Gaz. vol. 185; p. 420.
Pen, Fountain or self-feeding. H. Gilbert. No. 1,038,743; Sept. 17; Gaz. vol. 182; p. 599.
Pen-nibs, Grinding. J. Bissell. No. 1,024,435; Apr. 23; Sp. p. 5715; Gaz. vol. 177; p. 995.
Pen or pencil holder. C. F. Hager. No. 1,032,401; July 16; Gaz. vol. 180; p. 621.
Pen-point releaser. R. B. Thompson. No. 1,027,674; May 28; Sp. p. 5660; Gaz. vol. 178; p. 986.
Pen-point releaser. J. B. Sills and C. N. Jager. No. 1,044,585; Nov. 19; Gaz. vol. 184; p. 598.
Pen reservoir attachment. T. Watanabe. No. 1,026,011; May 14; Sp. p. 2005; Gaz. vol. 178; p. 346.
Pen, Self-filling fountain-. J. Hendrie. No. 1,021,673; Mar. 26; Sp. p. 5645; Gaz. vol. 176; p. 1016.
Pen, Self-filling fountain-. F. H. Harvey. No. 1,027,127; May 21; Sp. p. 4554; Gaz. vol. 178; p. 765.
Pen-wiper. O. V. Monroe. No. 1,041,326; Oct. 15; Gaz. vol. 183; p. 626.
Pens, Compression means for fountain-. E. R. Smith. No. 1,048,221; Dec. 24; Gaz. vol. 185; p. 937.
Pens, Safety-cap for fountain-. G. S. Parker. No. 1,028,382; June 4; Sp. p. 694; Gaz. vol. 179; p. 105.
Penholder. W. J. Eicher. No. 1,015,157; Jan. 16; Sp. p. 4567; Gaz. vol. 174; p. 770.
Penholder. E. Borron. No. 1,022,294; Apr. 2; Sp. p. 1134; Gaz. vol. 177; p. 181.
Penholder. A. Pawliczek. No. 1,028,269; June 4; Sp. p. 453; Gaz. vol. 179; p. 65.
Penholder. M. F. Gardner. No. 1,028,704; June 4; Sp. p. 1358; Gaz. vol. 179; p. 212.
Penholder. G. E. Stuart. No. 1,035,397; Aug. 13; Gaz. vol. 181; p. 368.
Penholder. A. F. Rippel. No. 1,045,186; Nov. 26; Gaz. vol. 184; p. 834.
Penholder. G. F. Brinkerhoff. No. 1,045,810; Dec. 3; Gaz. vol. 185; p. 5.
Penholder, Ejecting-. S. K. Willson. No. 1,016,533; Feb. 6; Sp. p. 698; Gaz. vol. 175; p. 104.
Pencil. H. Reiche. No. 1,021,112; Mar. 26; Sp. p. 4457; Gaz. vol. 176; p. 825.
Pencil. A. W. Harrison. No. 1,021,148; Mar. 26; Sp. p. 4538; Gaz. vol. 176; p. 837.
Pencil and compasses, Combined. P. D. Morgan. No. 1,021,160; Mar. 26; Sp. p. 4572; Gaz. vol. 176; p. 841.
Pencil and pen clip. F. J. Klein. No. 1,039,758; Oct. 1; Gaz. vol. 183; p. 30.
Pencil-case. J. Werner. No. 1,041,926; Oct. 22; Gaz. vol. 183; p. 864.
Pencil-case. G. V. Orban and B. Silverstein. No. 1,049,137; Dec. 31; Gaz. vol. 185; p. 1291.
Pencil-casing. C. S. Bush. No. 1,021,350; Mar. 26; Sp. p. 4971; Gaz. vol. 176; p. 907.
Pencil-holder. I. M. Hart. No. 1,033,693; July 23; Gaz. vol. 180; p. 1092.
Pencil-holder. R. Lewis and J. Straka. No. 1,037,646; Sept. 3; Gaz. vol. 182; p. 158.
Pencil-holder, Portable. W. D. Blaker. No. 1,040,860; Oct. 8; Gaz. vol. 183; p. 432.
Pencil-holder with adjustable core. E. Gerspacher. No. 1,043,518; Nov. 5; Gaz. vol. 184; p. 170.
Pencil marking and vending machine. F. C. Williams. No. 1,023,540; Apr. 16; Sp. p. 3792; Gaz. vol. 177; p. 670.
Pencil marking-gage. R. J. Clark, Jr. No. 1,046,975; Dec. 10; Gaz. vol. 185; p. 447.
Pencil, Self-sharpening. N. Crane. No. 1,038,857; Sept. 17; Gaz. vol. 182; p. 638.
Pencil-sharpener. E. B. Welles. No. 1,016,117; Jan. 30; Sp. p. 6640; Gaz. vol. 174; p. 1154.
Pencil-sharpener. S. McIlvanie. No. 1,018,249; Feb. 20; Sp. p. 4470; Gaz. vol. 175; p. 768.
Pencil-sharpener. J. E. Hager and R. H. Porteous. No. 1,026,671; May 21; Sp. p. 3477; Gaz. vol. 178; p. 607.
Pencil-sharpener. A. D. Fisher. No. 1,029,801; June 18; Sp. p. 3764; Gaz. vol. 179; p. 662.
Pencil-sharpener. F. A. Fricker. No. 1,038,112; Sept. 10; Gaz. vol. 182; p. 346.
Pencil-sharpener. J. D. Stassart. No. 1,040,048; Oct. 1; Gaz. vol. 183; p. 126.
Pencil-sharpener. C. Nash. No. 1,043,130; Nov. 5; Gaz. vol. 184; p. 29.
Pencil-sharpener. W. M. McKinney. No. 1,044,800; Nov. 19; Gaz. vol. 184; p. 673.
Pencil-sharpener. J. W. Cover. No. 1,046,379; Dec. 3; Gaz. vol. 185; p. 202.
Pencil-sharpening machine. E. P. Webster. No. 1,018,536; Feb. 27; Sp. p. 5157; Gaz. vol. 175; p. 897.
Pencil-sharpening machine. E. P. Webster. No. 1,040,069; Oct. 1; Gaz. vol. 183; p. 133.
Pencil-sharpening machine. L. Myers. No. 1,043,861; Nov. 12; Gaz. vol. 184; p. 316.
Pencils, Card-case attachment for. A. B. Scott. No. 1,049,275; Dec. 31; Gaz. vol. 185; p. 1337.
Pencils, &c., Eraser-tip for lead-. C. W. Boman. No. 1,027,030; May 21; Sp. p. 4312; Gaz. vol. 178; p. 732.
Pendant and locket, Combination. J. F. Killion. No. 1,045,036; Nov. 19; Gaz. vol. 184; p. 755.
Penta- and hexa-chlorethanes, Making. H. Haberland and W. Schaefer. No. 1,036,224; Aug. 20; Gaz. vol. 181; p. 690.

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Perambulator. F. A. Nauts. No. 1,024,144; Apr. 23; Sp. p. 5115; Gaz. vol. 177; p. 899.
Perambulator. D. R. Collier. No. 1,026,735; May 21; Sp. p. 3621; Gaz. vol. 178; p. 629.
Perambulator. J. P. Holman. No. 1,036,117; Aug. 20; Gaz. vol. 181; p. 649.
Perambulator. D. R. Collier. No. 1,037,173; Aug. 27; Gaz. vol. 181; p. 1041.
Perambulator and bag, Convertible. E. P. Kürsten. No. 1,022,094; Apr. 2; Sp. p. 726; Gaz. vol. 177; p. 116.
Perambulator or baby-carriage, Folding. F. J. Beier. No. 1,038,829; Sept. 17; Gaz. vol. 182; p. 629.
Perambulator or go-cart. S. Benson. No. 1,027,029; May 21; Sp. p. 4306; Gaz. vol. 178; p. 732.
Perch. A. Cox. No. 1,044,994; Nov. 19; Gaz. vol. 184; p. 740.
Perch, Portable poultry-. J. M. Beecher, Sr. No. 1,037,581; Sept. 3; Gaz. vol. 182; p. 136.
Perch, Poultry-. N. De Vore. No. 1,030,980; July 2; Gaz. vol. 180; p. 45.
Perch, Poultry-. B. R. Bonney. No. 1,038,079; Sept. 10; Gaz. vol. 182; p. 336.
Percolating device. G. E. Savage and L. H. Wilkinson. No. 1,026,930; May 21; Sp. p. 4060; Gaz. vol. 178; p. 696.
Percolator. O. Selg. No. 1,015,407; Jan. 23; Sp. p. 5125; Gaz. vol. 174; p. 880.
Percolator. J. B. Livingston. No. 1,017,222; Feb. 13; Sp. p. 2222; Gaz. vol. 175; p. 377.
Percolator. E. S. McLean. No. 1,029,939; June 18; Sp. p. 4090; Gaz. vol. 179; p. 710.
Percolator. I. and S. Gefter. No. 1,047,402; Dec. 17; Gaz. vol. 185; p. 627.
Percolator, Coffee-. J. E. King. No. 1,035,970; Aug. 20; Gaz. vol. 181; p. 598.
Percolator, Coffee-. L. Wojidkow. No. 1,036,767; Aug. 27; Gaz. vol. 181; p. 905.
Percolator, Syrup-. W. N. Elledge. No. 1,026,500; May 14; Sp. p. 3106; Gaz. vol. 178; p. 513.
Percussion device. G. H. Rowe. No. 1,024,025; Apr. 23; Sp. p. 4828; Gaz. vol. 177; p. 857.
Percussion-tool, Fluid-operated. C. H. Haeseler. No. 1,036,998; Aug. 27; Gaz. vol. 181; p. 982.
Percussion-tool machine. F. Bade. No. 1,041,569; Oct. 15; Gaz. vol. 183; p. 704.
Percussive apparatus, Pneumatic. H. C. Behr. No. 1,024,669; Apr. 30; Sp. p. 6317; Gaz. vol. 177; p. 1113.
Percussive apparatus, Valve device for hydraulically-controlled self-feeding. W. Mauss. No. 1,015,449; Jan. 23; Sp. p. 5209; Gaz. vol. 174; p. 895.
Percussive drill, hammer, or like percussive tool or machine. A. Sykes. No. 1,014,979; Jan. 16; Sp. p. 4222; Gaz. vol. 174; p. 710.
Percussive machine, Internal-combustion. L. L. Scott. No. 1,049,276; Dec. 31; Gaz. vol. 185; p. 1337.
Percussive machine, Pneumatic. H. C. Behr. No. 1,048,275; Dec. 24; Gaz. vol. 185; p. 955.
Percussive tool. A. G. Grice. No. 1,015,732; Jan. 23; Sp. p. 5823; Gaz. vol. 174; p. 992.
Perforating and chain-forming machine, Link-. F. F. Ellis. No. 1,046,060; Dec. 3; Gaz. vol. 185; p. 89.
Perforating apparatus, Consecutive-view-. E. Schneider. No. 1,028,287; June 4; Sp. p. 492; Gaz. vol. 179; p. 72.
Perforating device. L. C. Jensen. No. 1,046,598; Dec. 10; Gaz. vol. 185; p. 317.
Perforating-machine. A. C. Stone. No. 1,015,356; Jan. 23; Sp. p. 5007; Gaz. vol. 174; p. 865.
Perforating-machine. L. M. Potts. No. 1,018,519; Feb. 27; Sp. p. 5111; Gaz. vol. 175; p. 891.
Perforating-machine. N. Power. No. 1,031,468; July 2; Gaz. vol. 180; p. 216.
Perforating-machine. C. L. Lilleberg. No. 1,042,453; Oct. 29; Gaz. vol. 183; p. 1068.
Perforating-machine. T. A. McCall. No. 1,048,560; Dec. 31; Gaz. vol. 185; p. 1090.
Perforating machine, Sheet-. P. J. Dreher. No. 1,028,557; June 4; Sp. p. 1078; Gaz. vol. 179; p. 164.
Perforator, Casing-. H. B. Fulmer. No. 1,030,992; July 2; Gaz. vol. 180; p. 50.
Perfume preparation. G. L. Clarke. No. 1,029,105; June 11; Sp. p. 2254; Gaz. vol. 179; p. 385.
Perfumes and making the same, Solution of. A. Hesse. No. 1,017,669; Feb. 20; Sp. p. 3140; Gaz. vol. 175; p. 566.
Perfumes or the like, Demonstrating. T. A. De Vilbiss. No. 1,031,250; July 2; Gaz. vol. 180; p. 142.
Periscope and the like. J. W. Hasselkus. No. 1,047,051; Dec. 10; Gaz. vol. 185; p. 472.
Periscope with compass attachment. C. H. Bedell. No. 1,043,562; Nov. 5; Gaz. vol. 184; p. 185.
Permanent mold. J. A. Hardin. No. 1,019,248; Mar. 5; Sp. p. 531; Gaz. vol. 176; p. 84.
Permutation-lock. E. E. Quaintance. No. 1,017,313; Feb. 13; Sp. p. 2401; Gaz. vol. 175; p. 409.
Permutation-lock. V. Mattivi. No. 1,021,107; Mar. 26; Sp. p. 4449; Gaz. vol. 176; p. 823.
Permutation-lock. T. H. Hart. No. 1,021,672; Mar. 26; Sp. p. 5642; Gaz. vol. 176; p. 1015.
Permutation-lock. J. Roche. No. 1,025,538; May 7; Sp. p. 970; Gaz. vol. 178; p. 150.
Permutation-lock. E. E. Quaintance. No. 1,027,564; May 28; Sp. p. 5434; Gaz. vol. 178; p. 951.
Permutation-lock. H. R. Mitchell. No. 1,029,707; June 18; Sp. p. 3571; Gaz. vol. 179; p. 630.
Permutation-lock. B. H. Ziehler. No. 1,048,262; Dec. 24; Gaz. vol. 185; p. 949.
Peroxid active material and making it, Binder for. W. Morrison. No. 1,021,990; Apr. 2; Sp. p. 514; Gaz. vol. 177; p. 81.
Peroxid active material and making it, Binder for. W. Morrison. No. 1,021,991; Apr. 2; Sp. p. 517; Gaz. vol. 177; p. 82.
Peroxid active material and making it, Binder for. W. Morrison. No. 1,021,992; Apr. 2; Sp. p. 520; Gaz. vol. 177; p. 82.
Peroxid, Making alkali-earth. F. Bergius. No. 1,015,286; Jan. 23; Sp. p. 4843; Gaz. vol. 174; p. 840.
Peroxid paste, Greaseless. R. von Foregger. No. 1,018,240; Feb. 20; Sp. p. 4453; Gaz. vol. 175; p. 764.
Persimmons, &c., Treating Japanese. H. C. Gore. No. 1,015,950; Jan. 30; Sp. p. 6285; Gaz. vol. 174; p. 1094.
Personal cooler. M. E. Hostetler. No. 1,027,607; May 28; Sp. p. 5517; Gaz. vol. 178; p. 965.
Petroleum, Treating. J. Collins. No. 1,028,439; June 4; Sp. p. 826; Gaz. vol. 179; p. 125.
Petroleum, Utilizing acid sludge from refining. C. I. Robinson. No. 1,014,520; Jan. 9; Sp. p. 3138; Gaz. vol. 174; p. 522.
Petroleum, Utilizing acid sludge from refining. J. C. Black and M. L. Chappell. No. 1,031,413; July 2; Gaz. vol. 180; p. 198.
Petroleum, Utilizing sulfur-containing. J. E. Eggleston. No. 1,018,040; Feb. 20; Sp. p. 4013; Gaz. vol. 175; p. 695.
Petroleum, Utilizing sulfur-containing. C. I. Robinson. No. 1,018,374; Feb. 20; Sp. p. 4723; Gaz. vol. 175; p. 809.
Pharmaceutical product. L. Taub and H. Hahl. No. 1,022,645; Apr. 9; Sp. p. 1890; Gaz. vol. 177; p. 330.
Pharmaceutical product. W. Hiemenz and W. Kropp. No. 1,026,913; May 21; Sp. p. 4028; Gaz. vol. 178; p. 691.
Pharmaceutical product. W. Hiemenz and W. Kropp. No. 1,026,914; May 21; Sp. p. 4029; Gaz. vol. 178; p. 691.
Pharmaceutical products. M. Engelmann. No. 1,034,092; July 30; Gaz. vol. 180; p. 1258.
Phenolic condensation product and forming same, Plastic. J. W. Aylsworth. No. 1,020,594; Mar. 19; Sp. p. 3375; Gaz. vol. 176; p. 600.
Phenolic condensation product and preparing same. J. W. Aylsworth. No. 1,020,593; Mar. 19; Sp. p. 3371; Gaz. vol. 176; p. 599.
Phenolic condensation products, Forming. J. W. Aylsworth. No. 1,047,484; Dec. 17; Gaz. vol. 185; p. 657.
Phenols with formic aldehyde, Producing condensation products from. A. Weindel. No. 1,039,858; Oct. 1; Gaz. vol. 183; p. 64.
Phenols with formic aldehyde, Producing condensation products from. A. Weindel. No. 1,039,859; Oct. 1; Gaz. vol. 183; p. 64.
Phenylethylcyanoacetic ester. H. Hörlein. No. 1,036,625; Aug. 27; Gaz. vol. 181; p. 859.
Phenylethylmalonic ester. H. Hörlein. No. 1,036,624; Aug. 27; Gaz. vol. 181; p. 859.
Phonic apparatus. D. Higham. No. 1,036,235; Aug. 20; Gaz. vol. 181; p. 693.
Phonograph. J. B. Millet. No. 1,013,421; Jan. 2; Sp. p. 735; Gaz. vol. 174; p. 116.
Phonograph. H. B. McNulty. No. 1,020,151; Mar. 12; Sp. p. 2430; Gaz. vol. 176; p. 415.
Phonograph. C. L. Hibbard. No. 1,023,250; Apr. 16; Sp. p. 3222; Gaz. vol. 177; p. 577.
Phonograph. C. C. Shigley. No. 1,024,034; Apr. 23; Sp. p. 4848; Gaz. vol. 177; p. 860.
Phonograph. F. D. Lewis. No. 1,036,279; Aug. 20; Gaz. vol. 181; p. 708.
Phonograph. O. Arnold. No. 1,036,413; Aug. 20; Gaz. vol. 181; p. 754.
Phonograph. L. A. Brown. No. 1,036,440; Aug. 20; Gaz. vol. 181; p. 762.
Phonograph. H. B. McNulty. No. 1,038,621; Sept. 17; Gaz. vol. 182; p. 556.
Phonograph. P. Weber. No. 1,041,922; Oct. 22; Gaz. vol. 183; p. 862.
Phonograph. J. H. J. Haines. No. 1,042,110; Oct. 22; Gaz. vol. 183; p. 925.
Phonograph. C. L. Hibbard. No. 1,046,188; Dec. 3; Gaz. vol. 185; p. 134.
Phonograph. N. H. Holland. No. 1,049,237; Dec. 31; Gaz. vol. 185; p. 1323.
Phonograph attachment for kinetoscopes. P. J. Mukautz. No. 1,020,362; Mar. 12; Sp. p. 2854; Gaz. vol. 176; p. 484.
Phonograph, Automatic. H. T. Scott and L. J. Patterson. No. 1,040,029; Oct. 1; Gaz. vol. 183; p. 119.
Phonograph, Automatic. H. T. Scott and L. J. Patterson. No. 1,040,031; Oct. 1; Gaz. vol. 183; p. 120.
Phonograph, Automatic. H. T. Scott and L. J. Patterson. No. 1,040,034; Oct. 1; Gaz. vol. 183; p. 121.
Phonograph-clutch-actuating device. C. Lindström. No. 1,034,126; July 30; Gaz. vol. 180; p. 1269.

Alphabetical list of inventions—Continued.

Phonograph determining device. T. A. Edison. No. 1,046,414; Dec. 3; Gaz. vol. 185; p. 216.
Phonograph-disk-record cabinet. W. H. Dewar. No. 1,038,099; Sept. 10; Gaz. vol. 182; p. 342.
Phonograph disk records, Brushing means for. F. W. Wood. No. 1,018,861; Feb. 27; Sp. p. 5840; Gaz. vol. 175; p. 1007.
Phonograph-horn, Collapsible. G. Stiff. No. 1,049,166; Dec. 31; Gaz. vol. 185; p. 1299.
Phonograph-horn support. C. Schiffl. No. 1,017,328; Feb. 13; Sp. p. 2436; Gaz. vol. 175; p. 414.
Phonograph-mandrel. H. T. Scott. No. 1,040,033; Oct. 1; Gaz. vol. 183; p. 121.
Phonograph-motor-signaling device. C. Schiffl. No. 1,027,774; May 28; Sp. p. 5855; Gaz. vol. 178; p. 1019.
Phonograph, Multiple-record. R. B. Smith. No. 1,023,047; Apr. 9; Sp. p. 2746; Gaz. vol. 177; p. 469.
Phonograph-needle. R. Steinert. No. 1,039,208; Sept. 24; Gaz. vol. 182; p. 772.
Phonograph or graphophone disk records, Cabinet for holding. S. Holstein. No. 1,033,014; July 16; Gaz. vol. 180; p. 828.
Phonograph-record. J. W. Aylsworth. No. 1,036,415; Aug. 20; Gaz. vol. 181; p. 755.
Phonograph-record. J. B. Millet. No. 1,047,971; Dec. 24; Gaz. vol. 185; p. 853.
Phonograph-record and making the same. J. W. Aylsworth. No. 1,043,389; Nov. 5; Gaz. vol. 184; p. 123.
Phonograph-record blanks and like articles, Apparatus for forming impressions on. W. C. Runge. No. 1,018,631; Feb. 27; Sp. p. 5353; Gaz. vol. 175; p. 928.
Phonograph-record cabinet. P. Scholl. No. 1,015,844; Jan. 30; Sp. p. 6058; Gaz. vol. 174; p. 1057.
Phonograph-record cabinet. A. A. Bottemiller. No. 1,029,969; June 18; Sp. p. 4151; Gaz. vol. 179; p. 719.
Phonograph-record cabinets, Filling-block for. E. Pooler. No. 1,030,534; June 25; Sp. p. 5446; Gaz. vol. 179; p. 957.
Phonograph-record mold. A. F. Wurth. No. 1,027,788; May 28; Sp. p. 5879; Gaz. vol. 178; p. 1023.
Phonograph-record-molding apparatus. J. W. Aylsworth and E. L. Aiken. No. 1,041,948; Oct. 22; Gaz. vol. 183; p. 871.
Phonograph-record trimmer. G. C. La Mountain. No. 1,032,338; July 9; Gaz. vol. 180; p. 555.
Phonograph-records, Apparatus for making. J. A. Whitman. No. 1,030,364; June 25; Sp. p. 5024; Gaz. vol. 179; p. 896.
Phonograph-records, Apparatus for making duplicate. J. W. Aylsworth. No. 1,027,793; May 28; Sp. p. 5889; Gaz. vol. 178; p. 1025.
Phonograph recording and reproducing device. D. H. Wilson. No. 1,048,924; Dec. 31; Gaz. vol. 185; p. 1217.
Phonograph-reproducer. T. A. Edison. No. 1,019,440; Mar. 5; Sp. p. 1010; Gaz. vol. 176; p. 148.
Phonograph-reproducer. T. A. Edison. No. 1,020,485; Mar. 19; Sp. p. 3125; Gaz. vol. 176; p. 563.
Phonograph-reproducer. A. N. Pierman. No. 1,024,697; Apr. 30; Sp. p. 6378; Gaz. vol. 177; p. 1124.
Phonograph-reproducer. A. N. Pierman. No. 1,036,329; Aug. 20; Gaz. vol. 181; p. 725.
Phonograph-reproducer. H. H. Dyke. No. 1,036,469; Aug. 20; Gaz. vol. 181; p. 772.
Phonograph-reproducer. H. T. Scott and L. J. Patterson. No. 1,040,030; Oct. 1; Gaz. vol. 183; p. 119.
Phonograph-reproducer. H. T. Scott. No. 1,040,032; Oct. 1; Gaz. vol. 183; p. 121.
Phonograph-reproducer. T. A. Edison. No. 1,046,159; Dec. 3; Gaz. vol. 185; p. 124.
Phonograph-reproducer. F. L. Dyer and P. Weber. No. 1,049,216; Dec. 31; Gaz. vol. 185; p. 1317.
Phonograph sound-amplifier. V. E. D'Urso. (Reissue.) No. 13,378; Mar. 5; Sp. p. 1597; Gaz. vol. 176; p. 249.
Phonograph speed-regulator. E. L. Aiken. No. 1,036,407; Aug. 20; Gaz. vol. 181; p. 752.
Phonograph-stop, Automatic. M. E. Lewis. No. 1,019,669; Mar. 5; Sp. p. 1449; Gaz. vol. 176; p. 223.
Phonograph stop mechanism. O. W. Hartung. No. 1,016,563; Feb. 6; Sp. p. 773; Gaz. vol. 175; p. 114.
Phonograph style-bar. E. E. Meadowcroft. No. 1,013,198; Jan. 2; Sp. p. 223; Gaz. vol. 174; p. 38.
Phonograph-stylus. T. A. Edison. No. 1,041,983; Oct. 22; Gaz. vol. 183; p. 883.
Phonographs and like machines, Attachment for. J. D. Barter. No. 1,023,544; Apr. 16; Sp. p. 3803; Gaz. vol. 177; p. 671.
Phonographs and other machines, Feeding mechanism for. C. N. Wurth. No. 1,036,403; Aug. 20; Gaz. vol. 181; p. 751.
Phonographs, Case for disk records for. F. W. Wood. No. 1,018,689; Feb. 27; Sp. p. 5470; Gaz. vol. 175; p. 948.
Phonographs, &c., Means for controlling the time of starting. F. E. Thormeyer. No. 1,049,171; Dec. 31; Gaz. vol. 185; p. 1301.
Phonographic apparatus. T. A. Edison. No. 1,036,470; Aug. 20; Gaz. vol. 181; p. 773.
Phonographic-disk cabinet. J. Di Medio. No. 1,023,385; Apr. 16; Sp. p. 3487; Gaz. vol. 177; p. 622.
Phonographic recording and reproducing device. S. W. Wylie. No. 1,029,249; June 11; Sp. p. 2557; Gaz. vol. 179; p. 433.
Phonographic recording-stylus. T. A. Edison. No. 1,024,839; Apr. 30; Sp. p. 6677; Gaz. vol. 177; p. 1175.
Phonography. I. Kitsee. No. 1,040,213; Oct. 1; Gaz. vol. 183; p. 182.
Phonophotoscope. W. J. Williams and H. H. Rasmussen. No. 1,037,530; Sept. 3; Gaz. vol. 182; p. 120.
Phosphate and making same. C. N. Meriwether. No. 1,016,352; Feb. 6; Sp. p. 261; Gaz. vol. 175; p. 41.
Phosphate and the like, Drying monocalcic. T. L. Willson and M. M. Haff. No. 1,040,081; Oct. 1; Gaz. vol. 183; p. 137.
Phosphate, Making tri-alkali. E. H. Strickler. No. 1,037,837; Sept. 3; Gaz. vol. 182; p. 220.
Phosphates of potash and ammonia, Making. C. Klingbiel. No. 1,020,293; Mar. 12; Sp. p. 2733; Gaz. vol. 176; p. 463.
Phosphates, Treatment of. N. P. Pratt. No. 1,014,254; Jan. 9; Sp. p. 2594; Gaz. vol. 174; p. 433.
Phosphates, Treatment of. N. P. Pratt. No. 1,014,255; Jan. 9; Sp. p. 2596; Gaz. vol. 174; p. 433.
Phosphorites, Converting. H. V. Dunham. No. 1,034,090; July 30; Gaz. vol. 180; p. 1257.
Phosphorus from mineral phosphates, Producing. F. S. Washburn. No. 1,047,864; Dec. 17; Gaz. vol. 185; p. 791.
Phosphorus trioxid, Making. S. Peacock. No. 1,015,707; Jan. 23; Sp. p. 5775; Gaz. vol. 174; p. 984.
Photo-exposure meter. S. Pratt. No. 1,039,191; Sept. 24; Gaz. vol. 182; p. 766.
Photo printing apparatus. J. Campeau. No. 1,036,073; Aug. 20; Gaz. vol. 181; p. 633.
Photo printing-frame. R. Robinson. No. 1,030,540; June 25; Sp. p. 5456; Gaz. vol. 179; p. 959.
Photo printing-machine, Automatic. A. J. Freeman. No. 1,036,212; Aug. 20; Gaz. vol. 181; p. 685.
Photo-shutter. D. S. Cole. No. 1,047,915; Dec. 24; Gaz. vol. 185; p. 837.
Photograph-film-developing device. H. Wyman. No. 1,043,496; Nov. 5; Gaz. vol. 184; p. 162.
Photograph-holder. F. E. Kip. No. 1,024,583; Apr. 30; Sp. p. 6125; Gaz. vol. 177; p. 1084.
Photograph-holder. S. Heller. No. 1,040,320; Oct. 8; Gaz. vol. 183; p. 248.
Photograph-printing machine. A. S. Witter and O. A. Gordon. No. 1,039,874; Oct. 1; Gaz. vol. 183; p. 69.
Photographs and projecting same, Apparatus for taking kinematographic (or other). G. C. Thomas. No. 1,040,591; Oct. 8; Gaz. vol. 183; p. 343.
Photographs, Making. F. W. Battershall. No. 1,037,192; Sept. 3; Gaz. vol. 182; p. 5.
Photographer's developing-frame. L. Grubman. No. 1,019,320; Mar. 5; Sp. p. 712; Gaz. vol. 176; p. 110.
Photographic apparatus. H. Faulkner. No. 1,013,285; Jan. 2; Sp. p. 427; Gaz. vol. 174; p. 69.
Photographic apparatus. H. Faulkner. No. 1,013,286; Jan. 2; Sp. p. 440; Gaz. vol. 174; p. 69.
Photographic apparatus. J. C. Calhoun. No. 1,015,292; Jan. 23; Sp. p. 4856; Gaz. vol. 174; p. 842.
Photographic apparatus. H. Lill. No. 1,030,737; June 25; Sp. p. 6041; Gaz. vol. 179; p. 1029.
Photographic apparatus. C. C. Lamb. No. 1,035,977; Aug. 20; Gaz. vol. 181; p. 600.
Photographic apparatus. R. J. and J. A. London. No. 1,041,122; Oct. 15; Gaz. vol. 183; p. 555.
Photographic apparatus, Film-pack. C. Bornmann. No. 1,031,516; July 2; Gaz. vol. 180; p. 232.
Photographic apparatus, Film-pack. C. Bornmann. No. 1,034,865; Aug. 6; Gaz. vol. 181; p. 157.
Photographic backgrounds, Producing. H. B. Shaeffer. No. 1,040,036; Oct. 1; Gaz. vol. 183; p. 122.
Photographic developing apparatus. H. C. Wilcox. No. 1,016,924; Feb. 6; Sp. p. 1527; Gaz. vol. 175; p. 237.
Photographic enlarging apparatus. E. Broom. No. 1,034,968; Aug. 6; Gaz. vol. 181; p. 190.
Photographic-film-developing device. W. R. Ingham. No. 1,033,772; July 23; Gaz. vol. 180; p. 1117.
Photographic film for picture-machines. A. F. Victor. No. 1,019,931; Mar. 12; Sp. p. 1984; Gaz. vol. 176; p. 343.
Photographic film or plate envelop. J. W. Berwick. No. 1,044,123; Nov. 12; Gaz. vol. 184; p. 408.
Photographic-film washer. R. F. Troxler. No. 1,035,274; Aug. 13; Gaz. vol. 181; p. 323.
Photographic films, Apparatus for the manufacture of. O. Wintermeyer. No. 1,022,617; Apr. 9; Sp. p. 1828; Gaz. vol. 177; p. 320.
Photographic films, Daylight developing-tank for. E. L. Hammer. No. 1,022,477; Apr. 9; Sp. p. 1527; Gaz. vol. 177; p. 275.
Photographic films or plates, Envelop for. J. W. Berwick. No. 1,032,648; July 16; Gaz. vol. 180; p. 705.
Photographic instrument. F. B. Millard. No. 1,037,035; Aug. 27; Gaz. vol. 181; p. 995.
Photographic lenses, Automatic focusing apparatus for. L. J. R. Holst. No. 1,029,295; June 11; Sp. p. 2645; Gaz. vol. 179; p. 449.

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Photographic lenses, Means for mechanically focusing. L. J. R. Holst. No. 1,029,296; June 11; Sp. p. 2651; Gaz. vol. 179; p. 449.
Photographic lenses, Means for mechanically focusing. L. J. R. Holst. No. 1,029,297; June 11; Sp. p. 2654; Gaz. vol. 179; p. 450.
Photographic mats and masks, Apparatus for forming. S. F. Badgley. No. 1,023,914; Apr. 23; Sp. p. 4607; Gaz. vol. 177; p. 820.
Photographic negative and producing the same. A. W. McCurdy. No. 1,014,970; Jan. 16; Sp. p. 4200; Gaz. vol. 174; p. 707.
Photographic objective. R. Straubel. No. 1,025,766; May 7; Sp. p. 1450; Gaz. vol. 178; p. 228.
Photographic-plate-developing apparatus, Daylight. C. B. Buxton. No. 1,048,444; Dec. 24; Gaz. vol. 185; p. 1011.
Photographic-plate developing, washing, and fixing apparatus. A. Benkö. No. 1,021,035; Mar. 26; Sp. p. 4308; Gaz. vol. 176; p. 800.
Photographic plate or film holder and camera adapted to receive the same. S. K. Bohlin. No. 1,015,130; Jan. 16; Sp. p. 4519; Gaz. vol. 174; p. 761.
Photographic-plate rack. F. W. Barnes. No. 1,045,663; Nov. 26; Gaz. vol. 184; p. 1004.
Photographic plates and films, Developing. H. M. Prindle. No. 1,029,511; June 11; Sp. p. 3123; Gaz. vol. 179; p. 524.
Photographic plates and films, Developing. H. M. Prindle. No. 1,029,512; June 11; Sp. p. 3124; Gaz. vol. 179; p. 524.
Photographic-print-drying frame. C. Kemler. No. 1,032,839; July 16; Gaz. vol. 180; p. 771.
Photographic-print washer. E. N. Burdick. No. 1,029,487; June 11; Sp. p. 3076; Gaz. vol. 179; p. 516.
Photographic-printing apparatus. J. A. Meiser. No. 1,014,767; Jan. 16; Sp. p. 3734; Gaz. vol. 174; p. 636.
Photographic-printing apparatus. M. W. Lowder. No. 1,028,369; June 4; Sp. p. 672; Gaz. vol. 179; p. 101.
Photographic-printing apparatus. W. C. Huebner. No. 1,033,404; July 23; Gaz. vol. 180; p. 999.
Photographic-printing apparatus. H. A. Anderson. No. 1,046,367; Dec. 3; Gaz. vol. 185; p. 198.
Photographic-printing device. H. Haller, Jr. No. 1,016,623; Feb. 6; Sp. p. 912; Gaz. vol. 175; p. 136.
Photographic-printing device. J. W. Liebenrood. No. 1,031,563; July 2; Gaz. vol. 180; p. 248.
Photographic-printing device. H. M. Essington. No. 1,034,771; Aug. 6; Gaz. vol. 181; p. 124.
Photographic-printing device. M. F. Long. No. 1,040,710; Oct. 8; Gaz. vol. 183; p. 386.
Photographic-printing frame. C. E. Johnson. No. 1,027,482; May 28; Sp. p. 5258; Gaz. vol. 178; p. 922.
Photographic-printing frame. F. E. Phillips. No. 1,031,961; July 9; Gaz. vol. 180; p. 428.
Photographic-printing frame. E. S. McAdam. No. 1,038,171; Sept. 10; Gaz. vol. 182; p. 366.
Photographic-printing frame. J. S. Higgens. No. 1,048,160; Dec. 24; Gaz. vol. 185; p. 918.
Photographic-printing machine. T. S. and E. H. Higginbotham. No. 1,013,492; Jan. 2; Sp. p. 883; Gaz. vol. 174; p. 141.
Photographic-printing machine. G. R. Olson. No. 1,013,950; Jan. 9; Sp. p. 1924; Gaz. vol. 174; p. 327.
Photographic-printing machine. W. C. Huebner. No. 1,015,681; Jan. 23; Sp. p. 5705; Gaz. vol. 174; p. 976.
Photographic-printing machine. J. S. Cummings. No. 1,025,249; May 7; Sp. p. 313; Gaz. vol. 178; p. 50.
Photographic-printing machine. E. Schneider. No. 1,031,820; July 9; Gaz. vol. 180; p. 380.
Photographic-printing machine. C. J. Everett and J. V. McAdam. No. 1,034,772; Aug. 6; Gaz. vol. 181; p. 124.
Photographic-printing machine. R. R. Loving. No. 1,038,771; Sept. 17; Gaz. vol. 182; p. 608.
Photographic-printing machine. W. C. Huebner. No. 1,043,430; Nov. 5; Gaz. vol. 184; p. 137.
Photographic-process basket. M. S. Pelton. No. 1,027,626; May 28; Sp. p. 5545; Gaz. vol. 178; p. 970.
Photographic records, Producing stippled. P. Lachenmeyer. No. 1,046,089; Dec. 3; Gaz. vol. 185; p. 99.
Photographic shutter. J. Linder. No. 1,026,043; May 14; Sp. p. 2082; Gaz. vol. 178; p. 357.
Photographic shutter. J. Richard. No. 1,032,297; July 9; Gaz. vol. 180; p. 541.
Photographic shutter. C. Bornmann. No. 1,033,524; July 23; Gaz. vol. 180; p. 1037.
Photographic shutter. A. Wollensak. No. 1,035,762; Aug. 13; Gaz. vol. 181; p. 490.
Photographing-machine. J. Herricht. No. 1,038,135; Sept. 10; Gaz. vol. 182; p. 354.
Photography. J. L. Kellogg. No. 1,025,095; Apr. 30; Sp. p. 7196; Gaz. vol. 177; p. 1260.
Photography, Bleach-out process of color. J. H. Smith and W. Merckens. No. 1,013,458; Jan. 2; Sp. p. 800; Gaz. vol. 174; p. 128.
Photography flash-light apparatus. C. A. Goddard. No. 1,049,077; Dec. 31; Gaz. vol. 185; p. 1270.
Photography, Plate or film for color. G. Eastman. No. 1,028,337; June 4; Sp. p. 590; Gaz. vol. 179; p. 89.
Photometer. A. Erhardt. No. 1,027,328; May 21; Sp. p. 4946; Gaz. vol. 178; p. 832.
Photometer attachment. C. H. Sharp and P. S. Millar. No. 1,015,515; Jan. 23; Sp. p. 5347; Gaz. vol. 174; p. 917.
Photomicrographic and projecting apparatus. R. L. Watkins. No. 1,049,182; Dec. 31; Gaz. vol. 185; p. 1304.
Phototelegraphy. T. T. Baker. No. 1,026,297; May 14; Sp. p. 2656; Gaz. vol. 178; p. 445.
Physical developer. A. Hamilton. No. 1,047,212; Dec. 17; Gaz. vol. 185; p. 560.
Physician's table. F. A. Denquer. No. 1,039,708; Oct. 1; Gaz. vol. 183; p. 12.
Pianissimo attachment. M. Rothfeld. No. 1,043,145; Nov. 5; Gaz. vol. 184; p. 35.
Piano. T. P. Brown. No. 1,019,127; Mar. 5; Sp. p. 271; Gaz. vol. 176; p. 41.
Piano. H. K. Sandell. No. 1,028,496; June 4; Sp. p. 957; Gaz. vol. 179; p. 144.
Piano. C. Johnson. No. 1,032,608; July 16; Gaz. vol. 180; p. 690.
Piano. C. C. Chickering. No. 1,034,082; July 30; Gaz. vol. 180; p. 1255.
Piano-action. L. Avisus and A. Doll. No. 1,014,201; Jan. 9; Sp. p. 2454; Gaz. vol. 174; p. 412.
Piano-action. A. Hicks. No. 1,016,408; Feb. 6; Sp. p. 381; Gaz. vol. 175; p. 60.
Piano-action. J. B. Murray. No. 1,034,489; Aug. 6; Gaz. vol. 181; p. 29.
Piano action-controller, Automatic-. F. O. Gamble. No. 1,041,063; Oct. 15; Gaz. vol. 183; p. 536.
Piano action, Player-. S. S. Donovan. No. 1,022,066; Apr. 2; Sp. p. 665; Gaz. vol. 177; p. 106.
Piano-action, Pneumatic. V. Kranich. No. 1,038,601; Sept. 17; Gaz. vol. 182; p. 548.
Piano-action, Pneumatic. W. A. Kruck. No. 1,045,710; Nov. 26; Gaz. vol. 184; p. 1021.
Piano-actions, Lock-flange for. A. Staib. No. 1,048,752; Dec. 31; Gaz. vol. 185; p. 1157.
Piano-actions, Machine for inserting tape-bushings in. A. Larson and J. Jacobsen. No. 1,041,820; Oct. 22; Gaz. vol. 183; p. 827.
Piano-agraffe. M. Nystrom. No. 1,026,922; May 21; Sp. p. 4045; Gaz. vol. 178; p. 694.
Piano and organ, Combined player. G. B. Kelly. No. 1,042,686; Oct. 29; Gaz. vol. 183; p. 1150.
Piano and phonograph, Combined player-. P. J. Meahl. No. 1,025,200; May 7; Sp. p. 200; Gaz. vol. 178; p. 34.
Piano and piano-player seat, Adjustable. S. Marcus. No. 1,042,245; Oct. 22; Gaz. vol. 183; p. 969.
Piano, Automatic. M. Clark. No. 1,019,758; Mar. 12; Sp. p. 1633; Gaz. vol. 176; p. 285.
Piano base-shield. C. Coleman. No. 1,028,544; June 4; Sp. p. 1045; Gaz. vol. 179; p. 159.
Piano-bench. A. D. Cassidy. No. 1,015,781; Jan. 30; Sp. p. 5926; Gaz. vol. 174; p. 1037.
Piano-bench. E. V. Mendenhall. No. 1,018,204; Feb. 20; Sp. p. 4378; Gaz. vol. 175; p. 752.
Piano-bench. M. Hathaway. No. 1,034,443; Aug. 6; Gaz. vol. 181; p. 15.
Piano-bench. W. A. Kirkpatrick, J. E. Robbins, and C. P. Kirkpatrick. No. 1,037,266; Sept. 3; Gaz. vol. 182; p. 30.
Piano-bench, Adjustable. C. H. Martin. No. 1,048,190; Dec. 24; Gaz. vol. 185; p. 927.
Piano-bench, Duet. B. F. Mooney. No. 1,028,767; June 4; Sp. p. 1505; Gaz. vol. 179; p. 234.
Piano-brace, Metal. W. C. Schwamb. No. 1,026,466; May 14; Sp. p. 3040; Gaz. vol. 178; p. 501.
Piano-case. J. C. Smith. No. 1,013,326; Jan. 2; Sp. p. 529; Gaz. vol. 174; p. 84.
Piano-case attachment. J. W. Hurst. No. 1,021,525; Mar. 26; Sp. p. 5382; Gaz. vol. 176; p. 968.
Piano-casing. F. Renek. No. 1,024,950; Apr. 30; Sp. p. 6904; Gaz. vol. 177; p. 1213.
Piano, Chime-. J. Richmond. No. 1,016,094; Jan. 30; Sp. p. 6602; Gaz. vol. 174; p. 1147.
Piano, Electric. I. B. Smith. No. 1,037,349; Sept. 3; Gaz. vol. 182; p. 56.
Piano, Electric. H. K. Sandell. No. 1,045,444; Nov. 26; Gaz. vol. 184; p. 925.
Piano-hammer. J. W. E. Laker. No. 1,041,490; Oct. 15; Gaz. vol. 183; p. 679.
Piano-hammer molding and gluing machine. M. Gardner. No. 1,022,361; Apr. 2; Sp. p. 1264; Gaz. vol. 177; p. 204.
Piano, Horizontal. W. Siegel. No. 1,049,278; Dec. 31; Gaz. vol. 185; p. 1338.
Piano, Interior-player. M. Clark. No. 1,014,809; Jan. 16; Sp. p. 3824; Gaz. vol. 174; p. 650.
Piano, Interior-player. M. Clark. No. 1,014,810; Jan. 16; Sp. p. 3826; Gaz. vol. 174; p. 651.
Piano, Interior-player. M. Clark. No. 1,014,811; Jan. 16; Sp. p. 3828; Gaz. vol. 174; p. 651.
Piano, Interior-player. M. Clark. No. 1,014,864; Jan. 16; Sp. p. 3966; Gaz. vol. 174; p. 671.
Piano, Interior-player. M. Clark. No. 1,014,949; Jan. 16; Sp. p. 4159; Gaz. vol. 174; p. 699.
Piano-key. F. B. Long. No. 1,028,753; June 4; Sp. p. 1481; Gaz. vol. 179; p. 229.
Piano-keyboard. C. Fischer. No. 1,038,549; Sept. 17; Gaz. vol. 182; p. 531.

Alphabetical list of inventions—Continued.

Piano-keyboards, Chord-chart for. W. C. Beard. No. 1,041,230; Oct. 15; Gaz. vol. 183; p. 592.
Piano-lock. C. Logan, Jr. No. 1,014,159; Jan. 9; Sp. p. 2375; Gaz. vol. 174; p. 397.
Piano-lock. H. J. Strong and S. Ostrander. No. 1,040,963; Oct. 8; Gaz. vol. 183; p. 46 .
Piano music-cabinet attachment. K. Farkas. No. 1,028,697; June 4; Sp. p. 1347; Gaz. vol. 179; p. 210.
Piano music-desks, Support for. J. Ragona. No. 1,022,594; Apr. 9; Sp. p. 1783; Gaz. vol. 177; p. 313.
Piano music-roll holder, Automatic-. C. F. Webb and J. S. Stokes. No. 1,042,858; Oct. 29; Gaz. vol. 183; p. 1210.
Piano or organ casings, Combined fall-cover and music-rack for. E. J. Knabe, Jr. No. 1,020,914; Mar. 19; Sp. p. 4046; Gaz. vol. 176; p. 707.
Piano or similar instrument, Player-. E. Leschbrandt. No. 1,017,158; Feb. 13; Sp. p. 2067; Gaz. vol. 175; p. 355.
Piano-pedal. A. Anderson. No. 1,033,367; July 23; Gaz. vol. 180; p. 987.
Piano-pedal-opening guard. H. B. Vanhook. No. 1,027,297; May 21; Sp. p. 4890; Gaz. vol. 178; p. 822.
Piano-plate. J. B. D'Homergue. No. 1,035,192; Aug. 13; Gaz. vol. 181; p. 295.
Piano-player. I. L. Grinnell. No. 1,014,059; Jan. 9; Sp. p. 2172; Gaz. vol. 174; p. 363.
Piano-player. E. T. Turney. No. 1,028,308; June 4; Sp. p. 534; Gaz. vol. 179; p. 78.
Piano, Player-. J. H. Dickinson. No. 1,028,996; June 11; Sp. p. 2024; Gaz. vol. 179; p. 348.
Piano, Player-. L. C. Smith and M. A. Blumenberg. No. 1,044,092; Nov. 12; Gaz. vol. 184; p. 398.
Piano-player and like instrument. W. H. Grimsdale. No. 1,036,830; Aug. 27; Gaz. vol. 181; p. 927.
Piano-player and talking-machine, Combined. W. M. Davis. No. 1,013,589; Jan. 2; Sp. p. 1070; Gaz. vol. 174; p. 173.
Piano-player and the like, Pneumatic. M. M. Kastner and C. Katz. No. 1,038,761; Sept. 17; Gaz. vol. 182; p. 604.
Piano-player attachment. R. W. Scott. No. 1,018,084; Feb. 20; Sp. p. 4121; Gaz. vol. 175; p. 710.
Piano-player, Automatic. G. P. S. Miller. No. 1,032,692; July 16; Gaz. vol. 180; p. 721.
Piano-player, Automatic electric. L. J. Le Pontois. No. 1,046,471; Dec. 10; Gaz. vol. 185; p. 273.
Piano-player, Mechanical. J. Courville. No. 1,018,167; Feb. 20; Sp. p. 4308; Gaz. vol. 175; p. 739.
Piano-player mechanism. W. T. Waite. No. 1,028,163; June 4; Sp. p. 245; Gaz. vol. 179; p. 29.
Piano-player motor. E. T. Turney. No. 1,028,307; June 4; Sp. p. 532; Gaz. vol. 179; p. 77.
Piano-player motor. E. T. Turney. No. 1,028,309; June 4; Sp. p. 536; Gaz. vol. 179; p. 78.
Piano-player, Pneumatic. C. Freborg. No. 1,025,135; May 7; Sp. p. 54; Gaz. vol. 178; p. 10.
Piano-player, Pneumatic. J. L. Forster. No. 1,033,000; July 16; Gaz. vol. 180; p. 822.
Piano-player, Pneumatic. C. Freborg. No. 1,043,220; Nov. 5; Gaz. vol. 184; p. 63.
Piano-player, Pneumatic. C. Freborg. No. 1,044,639; Nov. 19; Gaz. vol. 184; p. 616.
Piano-players, Action for pneumatic. E. V. Carlson. No. 1,029,421; June 11; Sp. p. 2951; Gaz. vol. 179; p. 494.
Piano-players, &c., Actuating mechanism for. G. P. Brand. No 1,036,957; Aug. 27; Gaz. vol. 181; p. 968.
Piano-players and player-pianos, Key-changing device for. M. F. Holderman. No. 1,030,182; June 18; Sp. p. 4586; Gaz. vol. 179; p. 792.
Piano-players and the like, Treadle-shifting mechanism for. G. Santoiemma. No. 1,048,351; Dec. 24; Gaz. vol. 185; p. 980.
Piano-players, Foot-treadle for. A. Anderson. No. 1,042,306; Oct. 22; Gaz. vol. 183; p. 988.
Piano-players, Note-sheet for autopneumatic. M. Clark. No. 1,022,403; Apr. 9; Sp. p. 1358; Gaz. vol. 177; p. 249.
Piano-players, &c., Pneumatic action for. G. P. Brand. No. 1,036,956; Aug. 27; Gaz. vol. 181; p. 968.
Piano-players, Self-adjusting attachment for. T. H. Cabasino and T. W. Vrena. No. 1,023,005; Apr. 9; Sp. p. 2664; Gaz. vol. 177; p. 455.
Piano-players, Tempo-controlling mechanism for. P. Wuest, Jr. No. 1,037,098; Aug. 27; Gaz. vol. 181; p. 1016.
Piano-players, &c., Valve for pneumatic. J. A. Weser. No. 1,048,615; Dec. 31; Gaz. vol. 185; p. 1109.
Piano-players, Valve mechanism for. P. Wuest, Jr. No. 1,041,219; Oct. 15; Gaz. vol. 183; p. 588.
Piano-playing attachments, Combined record-rewinding, shifting mechanism, and relief for. E. T. Turney. No. 1,032,451; July 16; Gaz. vol. 180; p. 637.
Piano-playing attachments, Tone-regulator for. E. T. Turney. No. 1,033,129; July 23; Gaz. vol. 180; p. 906.
Piano-playing attachments, Wind-chest-tension indicator for. E. T. Turney. No. 1,020,584; Mar. 19; Sp. p. 3357; Gaz. vol. 176; p. 597.
Piano-playing device. R. H. Boardman. No. 1,041,004; Oct. 15; Gaz. vol. 183; p. 516.
Piano-playing mechanism and the like. C. W. Atkinson. No. 1,043,792; Nov. 12; Gaz. vol. 184; p. 293.
Piano-playing mechanism and the like. C. W. Atkinson. No. 1,046,369; Dec. 3; Gaz. vol. 185; p. 199.
Piano, Pneumatic. W. G. Betz. No. 1,014,364; Jan. 9; Sp. p. 2850; Gaz. vol. 174; p. 471.
Piano, Pneumatic. W. G. Betz. No. 1,021,502; Mar. 26; Sp. p. 5331; Gaz. vol. 176; p. 960.
Piano, Pneumatic. W. G. Betz. No. 1,023,613; Apr. 16; Sp. p. 3954; Gaz. vol. 177; p. 694.
Piano, Pneumatic. W. G. Betz. No. 1,048,486; Dec. 31; Gaz. vol. 185; p. 1064.
Piano-protector. W. R. Turner. No. 1,017,608; Feb. 13; Sp. p. 3003; Gaz. vol. 175; p. 507.
Piano, Self-playing. J. Bauer. No. 1,036,175; Aug. 20; Gaz. vol. 181; p. 671.
Piano-shield. C. W. Graves. No. 1,017,288; Feb. 13; Sp. p. 2348; Gaz. vol. 175; p. 400.
Piano-silencing attachment. A. Stein. No. 1,038,015; Sept. 10; Gaz. vol. 182; p. 315.
Piano, Solo-playing automatic. M. Clark. No. 1,024,677; Apr. 30; Sp. p. 6335; Gaz. vol. 177; p. 1117.
Piano sounding-board. F. B. Long. No. 1,033,601; July 23; Gaz. vol. 180; p. 1064.
Piano sounding-boards, Device for flexing or crowning. J. H. Montgomery. No. 1,048,195; Dec. 24; Gaz. vol. 185; p. 928.
Piano string-plate. C. A. Haddorff. No. 1,032,895; July 16; Gaz. vol. 180; p. 789.
Piano tone-modifier. P. Wales. No. 1,024,235; Apr. 23; Sp. p. 5323; Gaz. vol. 177; p. 932.
Piano-tuning device. M. L. Severy and G. B. Sinclair. No. 1,026,228; May 14; Sp. p. 2519; Gaz. vol. 178; p. 421.
Piano, Violin-. J. L. Warner. No. 1,015,462; Jan. 23; Sp. p. 5252; Gaz. vol. 174; p. 900.
Piano, Violin-. W. A. Basting. No. 1,039,481; Sept. 24; Gaz. vol. 182; p. 869.
Piano, Violin-. E. Silen. No. 1,045,899; Dec. 3; Gaz. vol. 185; p. 35.
Piano-violin. W. E. Fox. No. 1,036,600; Aug. 27; Gaz. vol. 181; p. 851.
Piano-violin. A. Philipps. No. 1,038,643; Sept. 17; Gaz. vol. 182; p. 563.
Pianos, Action-bracket and wind-box for player-. W. R. Crippen. No. 1,025,183; May 7; Sp. p. 163; Gaz. vol. 178; p. 27.
Pianos and similar instruments, Machine for automatically playing. A. W. Nunn. No. 1,014,606; Jan. 9; Sp. p. 3313; Gaz. vol. 174; p. 550.
Pianos and similar musical instruments, Pneumatic action for player-. G. Bjorkland. No. 1,023,986; Apr. 23; Sp. p. 4756; Gaz. vol. 177; p. 844.
Pianos, Controlling device for player-. F. C. White. No. 1,023,906; Apr. 23; Sp. p. 4579; Gaz. vol. 177; p. 816.
Pianos, Controlling device for self-playing. R. J. Bennett. No. 1,025,959; May 14; Sp. p. 1903; Gaz. vol. 178; p. 327.
Pianos, Controlling device for self-playing. R. J. Bennett. No. 1,030,863; July 2; Gaz. vol. 180; p. 5.
Pianos, Electrically-operated attachment for. J. L. Black. No. 1,048,798; Dec. 31; Gaz. vol. 185; p. 1175.
Pianos, Expression mechanism for. W. F. Cooper and E. P. Chase. No. 1,028,440; June 4; Sp. p. 828; Gaz. vol. 179; p. 125.
Pianos, Hammer-rail construction for pneumatic. W. G. Betz. No. 1,037,584; Sept. 3; Gaz. vol. 182; p. 137.
Pianos, Music-holder for. C. H. Grings. No. 1,020,947; Mar. 19; Sp. p. 4120; Gaz. vol. 176; p. 718.
Pianos, Music-turner for. J. G. Boutte. No. 1,037,723; Sept. 3; Gaz. vol. 182; p. 183.
Pianos, &c., Note-sheet for player-. C. F. Stoddard. No. 1,025,077; Apr. 30; Sp. p. 7143; Gaz. vol. 177; p. 1254.
Pianos, Organ-pipe attachment for autopneumatic. W. A. Kupp. No. 1,046,610; Dec. 10; Gaz. vol. 185; p. 322.
Pianos, Pneumatic action for self-playing. W. A. Kruck. No. 1,027,257; May 21; Sp. p. 4798; Gaz. vol. 178; p. 808.
Pianos, Power-pneumatic for player-. J. Leisch. No. 1,036,656; Aug. 27; Gaz. vol. 181; p. 869.
Pianos, Rewinding device for pneumatic. W. G. Betz. No. 1,015,128; Jan. 16; Sp. p. 4516; Gaz. vol. 174; p. 761.
Pianos, &c., Temperature-regulating means for. B. E. Canfield. No. 1,033,536; July 23; Gaz. vol. 180; p. 1041.
Pianos, Tracking device for pneumatic. W. G. Betz. No. 1,024,174; Apr. 23; Sp. p. 5177; Gaz. vol. 177; p. 909.
Pianoforte. A. O. Lechner. No. 1,013,604; Jan. 2; Sp. p. 1108; Gaz. vol. 174; p. 178.
Pianofortes, Adjustable music-desk for. G. O. Furrow. No. 1,037,233; Sept. 3; Gaz. vol. 182; p. 20.
Pianofortes, carillons, and other musical instruments, Apparatus for automatically playing. J. J. Walker. No. 1,017,932; Feb. 20; Sp. p. 3787; Gaz. vol. 175; p. 657.
Pick. H. Martini. No. 1,049,249; Dec. 31; Gaz. vol. 185; p. 1328.
Pick, Coal-. J. Batulis. No. 1,023,409; Apr. 16; Sp. p. 3539; Gaz. vol. 177; p. 630.
Pick-handle. A. Boby. No. 1,022,924; Apr. 9; Sp. p. 2502; Gaz. vol. 177; p. 427.

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Pick, Miner's. F. E. Derschmidt. No. 1,014,575; Jan. 9; Sp. p. 3237; Gaz. vol. 174; p. 539.
Pick-point, Detachable. A. Walker. No. 1,024,754; Apr. 30; Sp. p. 6498; Gaz. vol. 177; p. 1144.
Pick-point, Detachable. K. E. Cook. No. 1,035,160; Aug. 13; Gaz. vol. 181; p. 284.
Picks and other tools, Handle-fastening for. E. L. Ray. No. 1,048,096; Dec. 24; Gaz. vol. 185; p. 896.
Picker: *See* Beet-picker; Berry-picker; Corn-picker; Cotton-picker; Fruit-picker; Labeling-machine picker; Peanut-picker; Potato-picker; Rock-picker; Shaker-picker; Slate-picker.
Picker-check. C. N. Tucker. No. 1,013,335; Jan. 2; Sp. p. 547; Gaz. vol. 174; p. 87.
Picker-check. H. Côté. No. 1,023,197; Apr. 16; Sp. p. 3126; Gaz. vol. 177; p. 559.
Picker-check. H. Côté and R. C. Snow. No. 1,024,036; Apr. 23; Sp. p. 4859; Gaz. vol. 177; p. 861.
Picker for coupons, labels, &c. E. T. Dennis. No. 1,039,109; Sept. 24; Gaz. vol. 182; p. 738.
Picker-machine-locking device. T. H. Walsh. No. 1,044,834; Nov. 19; Gaz. vol. 184; p. 684.
Picker-operating device. J. F. MacWilliam. No. 1,038,166; Sept. 10; Gaz. vol. 182; p. 364.
Picker-rod stand, Auxiliary. D. E. Jones. No. 1,022,483; Apr. 9; Sp. p. 1539; Gaz. vol. 177; p. 276.
Picker-stick. R. L. Cabler. No. 1,046,732; Dec. 10; Gaz. vol. 185; p. 366.
Picker-stick check. H. Côté. No. 1,023,362; Apr. 16; Sp. p. 3439; Gaz. vol. 177; p. 614.
Picket and tent pin. C. Harrison. No. 1,034,109; July 30; Gaz. vol. 180; p. 1264.
Pickling-bath, Hot. F. F. Farnham. No. 1,029,351; June 11; Sp. p. 2787; Gaz. vol. 179; p. 470.
Pickling compound. F. J. Wilson. No. 1,039,873; Oct. 1; Gaz. vol. 183; p. 68.
Pickling-machine. A. McCloy and J. W. Bolger. No. 1,046,315; Dec. 3; Gaz. vol. 185; p. 180.
Pickling sheets, &c. S. E. Diescher. No. 1,023,458; Apr. 16; Sp. p. 3631; Gaz. vol. 177; p. 644.
Picture. D. Kovacs. No. 1,014,759; Jan. 16; Sp. p. 3710; Gaz. vol. 174; p. 633.
Picture apparatus, Animated-. H. N. Marvin. No. 1,021,060; Mar. 26; Sp. p. 4361; Gaz. vol. 176; p. 810.
Picture apparatus, Motion-. C. F. Jenkins. No. 1,017,672; Feb. 20; Sp. p. 3144; Gaz. vol. 175; p. 566.
Picture apparatus, Motion-. C. F. Jenkins. No. 1,047,528; Dec. 17; Gaz. vol. 185; p. 673.
Picture apparatus, Moving-. J. F. Whitfield. No. 1,015,107; Jan. 16; Sp. p. 4475; Gaz. vol. 174; p. 754.
Picture apparatus, Moving-. C. S. Batdorf. No. 1,023,797; Apr. 23; Sp. p. 4292; Gaz. vol. 177; p. 779.
Picture apparatus, Moving-. J. Bottlander and J. Paffrath. No. 1,036,429; Aug. 20; Gaz. vol. 181; p. 760.
Picture apparatus, Moving-. E. L. Aiken. No. 1,037,188; Sept. 3; Gaz. vol. 182; p. 3.
Picture-exhibiting apparatus. C. L. Thomsen. No. 1,024,955; Apr. 30; Sp. p. 6914; Gaz. vol. 177; p. 1215.
Picture-exhibiting device. A. S. Warren. No. 1,048,379; Dec. 24; Gaz. vol. 185; p. 990.
Picture-exhibitor. G. Kobich. No. 1,022,198; Apr. 2; Sp. p. 945; Gaz. vol. 177; p. 151.
Picture-film rack. C. F. Jenkins. No. 1,045,410; Nov. 26; Gaz. vol. 184; p. 912.
Picture films and other material, Machine for winding moving-. H. W. Griggs. No. 1,042,430; Oct. 29; Gaz. vol. 183; p. 1060.
Picture-films and the like, Container for. B. W. Beadell. No. 1,019,589; Mar. 5; Sp. p. 1306; Gaz. vol. 176; p. 196.
Picture-films, Dust and fire proof receptacle for. C. James. No. 1,034,114; July 30; Gaz. vol. 180; p. 1265.
Picture-frame attachment. J. H. Andrews. No. 1,024,169; Apr. 23; Sp. p. 5168; Gaz. vol. 177; p. 907.
Picture-frame-fastening device. L. E. Gibson. No. 1,041,776; Oct. 22; Gaz. vol. 183; p. 811.
Picture-frame support. G. A. L'Hommedieu. No. 1,019,670; Mar. 5; Sp. p. 1451; Gaz. vol. 176; p. 224.
Picture glass and mount. H. D. Sterrick. No. 1,032,515; July 16; Gaz. vol. 180; p. 659.
Picture-hanger. G. E. Walker. No. 1,032,572; July 16; Gaz. vol. 180; p. 678.
Picture-hanging device. D. Marshall. No. 1,043,448; Nov. 5; Gaz. vol. 184; p. 144.
Picture-holder. E. Fleming. No. 1,023,072; Apr. 9; Sp. p 2805; Gaz. vol. 177; p. 477.
Picture-hook. J. A. Costuma. No. 1,025,964; May 14, Sp. p. 1914; Gaz. vol. 178; p. 330.
Picture-leaf. R. H. Garman. No. 1,033,576; July 23, Gaz. vol. 180; p. 1055.
Picture-machine. G. W. Smith and W. B. Thomas. No. 1,031,879; July 9; Gaz. vol. 180; p. 401.
Picture-machine attachment, Moving-. F. C. Knopf. No. 1,041,813; Oct. 22; Gaz. vol. 183; p. 825.
Picture-machine film, Moving-. G. W. Bingham. No. 1,045,502; Nov. 26; Gaz. vol. 184; p. 946.
Picture machine, Motion-. W. B. Featherstone. No 1,034,006; July 30; Gaz. vol. 180; p. 1228.
Picture machine, Moving-. C. R. Uebelmesser. No 1,019,929; Mar. 12; Sp. p. 1981; Gaz. vol. 176; p. 342
Picture machine, Moving-. J. A. Cameron. No. 1,020,383; Mar. 12; Sp. p. 2898; Gaz. vol. 176; p. 491.
Picture machine, Moving-. C. R. Uebelmesser. No. 1,023,053; Apr. 9; Sp. p. 2767; Gaz. vol. 177; p. 471.
Picture machine, Moving-. F. A. Cole. No. 1,024,975; Apr. 30; Sp. p. 6943; Gaz. vol. 177; p. 1221.
Picture machine, Moving-. E. H. Sperberg. No. 1,025,887; May 7; Sp. p. 1744; Gaz. vol. 178; p. 269.
Picture machine, Moving-. L. W. Merkel. No. 1,026,991; May 21; Sp. p. 4207; Gaz. vol. 178; p. 718.
Picture machine, Moving-. J. B. Johnson. No. 1,027,735; May 28; Sp. p. 5773; Gaz. vol. 178; p. 1006.
Picture machine, Moving-. G. W. Bingham. No. 1,037,112; Aug. 27; Gaz. vol. 181; p. 1021.
Picture machine, Moving-. A. S. Howell. No. 1,038,586; Sept. 17; Gaz. vol. 182; p. 543.
Picture machine, Moving-. W. B. Hausman. No. 1,041,784; Oct. 22; Gaz. vol. 183; p. 815.
Picture-machine reel mechanism. J. G. Lake. No. 1,024,790; Apr. 30; Sp. p. 6581; Gaz. vol. 177; p. 1158.
Picture machine, Talking-. A. D. Adamopoulos. No. 1,031,315; July 2; Gaz. vol. 180; p. 165.
Picture-machine transparency-holder. W. A. Zimmermann. No. 1,032,798; July 16; Gaz. vol. 180; p. 757.
Picture machines, Automatic shutter for moving-. C. R. Uebelmesser. No. 1,040,468; Oct. 8; Gaz. vol. 183; p. 297.
Picture machines, Film-feeder for moving-. C. E. Lloyd. No. 1,031,129; July 2; Gaz. vol. 180; p. 99.
Picture machines, Film-winding mechanism for moving-. J. B. Merkel and G. J. Carroll. No. 1,021,617; Mar. 26; Sp. p. 5555; Gaz. vol. 176; p. 997.
Picture machines, Projecting apparatus for moving-. G. E. Ripley, W. N. Gladson, and R. E. Thompson. No. 1,025,074; Apr. 30; Sp. p. 7131; Gaz. vol. 177; p. 1253.
Picture machines, Slide for motion-. H. A. Meinhardt. No. 1,016,575; Feb. 6; Sp. p. 800; Gaz. vol. 175; p. 118.
Picture mechanism, Talking moving-. O. E. Kellum. No. 1,027,658; May 28; Sp. p. 5620; Gaz. vol. 178; p. 981.
Picture-projecting apparatus, Moving-. G. Dietz. No. 1,017,250; Feb. 13; Sp. p. 2275; Gaz. vol. 175; p. 387.
Picture-projecting machine, Moving-. O. T. Weiser. No. 1,031,750; July 9; Gaz. vol. 180; p. 355.
Picture-suspension bar. R. S. Cormier. No. 1,035,319; Aug. 13; Gaz. vol. 181; p. 340.
Pictures, Apparatus for showing kinematographic. A. Engelsmann. No. 1,019,141; Mar. 5; Sp. p. 305; Gaz. vol. 176; p. 47.
Pictures, Arrangement for the projection of lantern-. R. Massohn and J. Strathus. No. 1,024,734; Apr. 30; Sp. p. 6449; Gaz. vol. 177; p. 1137.
Pictures during production, Apparatus for projecting. H. Mayer. No. 1,036,131; Aug. 20; Gaz. vol. 181; p. 655.
Pictures, Projecting-machine for moving. F. W. Wright. No. 1,024,661; Apr. 30; Sp. p. 6303; Gaz. vol. 177; p. 1111.
Pie-crust molding and rolling device. S. E. Winder. No. 1,035,065; Aug. 6; Gaz. vol. 181; p. 220.
Pie-trimmer. J. B. Curl. No. 1,032,117; July 9; Gaz. vol. 180; p. 478.
Pie trimming and rimming machine. J. P. Frisbie. No. 1,039,505; Sept. 24; Gaz. vol. 182; p. 877.
Piece-goods core-board. F. E. Keyes. No. 1,033,250; July 23; Gaz. vol. 180; p. 948.
Piers, shafts, &c., Building. D. E. Moran. No. 1,036,680; Aug. 27; Gaz. vol. 181; p. 877.
Pig-extractor. L. Larson. No. 1,024,513; Apr. 30; Sp. p. 5941; Gaz. vol. 177; p. 1060.
Pile. A. Gundersen. No. 1,019,042; Mar. 5; Sp. p. 66; Gaz. vol. 176; p. 13.
Pile. F. Collom. No. 1,044,992; Nov. 19; Gaz. vol. 184; p. 739.
Pile-cutting machine. A. Morton. No. 1,016,512; Feb. 6; Sp. p. 632; Gaz. vol. 175; p. 97.
Pile-driver, Automatic. J. N. Warrington. No. 1,019,386; Mar. 5; Sp. p. 892; Gaz. vol. 176; p. 132.
Pile-driver, Electric. C. D. Haskins. No. 1,022,586; Apr. 9; Sp. p. 1754; Gaz. vol. 177; p. 309.
Pile-driver, Marine. H. T. Welty and F. J. McCain. No. 1,043,886; Nov. 12; Gaz. vol. 184; p. 326.
Pile-driving apparatus. N. Simonson. No. 1,046,662; Dec. 10; Gaz. vol. 185; p. 340.
Pile-driving device. M. Cazin. No. 1,029,102; June 11; Sp. p. 2250; Gaz. vol. 179; p. 384.
Pile-driving engine. A. B. Clark. No. 1,023,243; Apr. 16; Sp. p. 3206; Gaz. vol. 177; p. 574.
Pile-driving-follower attachment. M. T. McKenna. No. 1,017,439; Feb. 13; Sp. p. 2673; Gaz. vol. 175; p. 452.
Pile-driving head. C. P. Bohland. No. 1,023,615; Apr. 16; Sp. p. 3958; Gaz. vol. 177; p. 695.
Pile fabric, Preparing warp for manufacturing. P. Sabonadier and E. D'Eaubonne. No. 1,024,421; Apr. 23; Sp. p 5696; Gaz. vol. 177; p. 992.
Pile fabric, Woven. G. Crossland. No. 1,038,532; Sept. 17; Gaz. vol. 182; p. 524.
Pile hood or cap. J. N. Warrington. No. 1,020,467; Mar. 19; Sp. p. 3089; Gaz. vol. 176; p. 558.
Pile, Metal sheeting-. A. Desoer. No. 1,019,227; Mar. 5; Sp. p. 485; Gaz. vol. 176; p. 78.
Pile-puller. J. E. Grady. No. 1,043,223; Nov. 5; Gaz. vol. 184; p. 64.

Alphabetical list of inventions—Continued.

Pile protector, Wooden-. A. L. Reynolds. No. 1,036,907; Aug. 27; Gaz. vol. 181; p. 951.
Pile splicing and driving device. C. F. Francisco. No. 1,024,069; Apr. 23; Sp. p. 4925; Gaz. vol. 177; p. 873.
Pile-truss. W. E. Poindexter. No. 1,040,404; Oct. 8; Gaz. vol. 183; p. 276.
Pile-wire-lubricating device. F. Farmer. No. 1,019,032; Mar. 5; Sp. p. 40; Gaz. vol. 176; p. 9.
Piles, &c., Device for preserving. W. H. Garlock. No. 1,033,690; July 23; Gaz. vol. 180; p. 1091.
Piles, Machine for forming jackets on. J. F. Whittle and H. D. Foster. No. 1,026,939; May 21; Sp. p. 4108; Gaz. vol. 178; p. 700.
Piles, Method of and apparatus for applying protecting-covering to. J. P. Fox and H. L. Hatcher. No. 1,013,758; Jan. 2; Sp. p. 1476; Gaz. vol. 174; p. 233.
Piles, posts, and the like, Withdrawing of. A. Gibb, T. G. Menzies, and R. Chalmers. No. 1,014,295; Jan. 9; Sp. p. 2674; Gaz. vol. 174; p. 446.
Piling-bar. D. W. Mathias. No. 1,039,563; Sept. 24; Gaz. vol. 182; p. 898.
Piling-box. H. L. Craig. No. 1,041,031; Oct. 15; Gaz. vol. 183; p. 525.
Piling construction. E. Bignell. No. 1,024,820; Apr. 30; Sp. p. 6633; Gaz. vol. 177; p. 1167.
Piling joint, Tubular-. F. McCluskey. No. 1,025,759; May 7; Sp. p. 1437; Gaz. vol. 178; p. 225.
Piling, Junction member for steel sheet-. W. E. Buckingham. No. 1,032,109; July 9; Gaz. vol. 180; p. 476.
Piling, Sheet-. E. Bignell. No. 1,024,822; Apr. 30; Sp. p. 6639; Gaz. vol. 177; p. 1168.
Piling, Sheet-. A. R. Archer. No. 1,030,761; June 25; Sp. p. 6108; Gaz. vol. 179; p. 1038.
Piling, Sheet-. G. W. McFarlane. No. 1,042,581; Oct. 29; Gaz. vol. 183; p. 113.
Piling, Sheet-metal. T. Larssen. No. 1,042,571; Oct. 29; Gaz. vol. 183; p. 1108.
Pillow. S. J. Smith. No. 1,018,685; Feb. 27; Sp. p. 5463; Gaz. vol. 175; p. 947.
Pillow. S. L. Platt. No. 1,020,444; Mar. 19; Sp. p. 3043; Gaz. vol. 176; p. 551.
Pillow. T. E. Drohan. No. 1,023,629; Apr. 16; Sp. p. 3989; Gaz. vol. 177; p. 700.
Pillow-case, Day. C. L. Hosken. No. 1,042,439; Oct. 29; Gaz. vol. 183; p. 1063.
Pillow-sham holder. W. C. Styles. No. 1,013,697; Jan. 2; Sp. p. 1351; Gaz. vol. 174; p. 210.
Pillow-sham holder. H. B. Rycroft. No. 1,047,842; Dec. 17; Gaz. vol. 185; p. 783.
Pillows and the like, Machine for stuffing. J. B. Patterson. No. 1,022,697; Apr. 9; Sp. p. 2015; Gaz. vol. 177; p. 348.
Pilot-house light. J. H. Buxbaum. No. 1,016,205; Jan. 30; Sp. p. 6804; Gaz. vol. 174; p. 1182.
Pilot-light. G. Gilcher. No. 1,029,805; June 18; Sp. p. 3772; Gaz. vol. 179; p. 663.
Pin: *See* Bowling-alley pin; Clothes-pin; Cotter-pin; Cuff-pin; Hair-pin; Hat-pin; Hat and veil pin; Insulator-pin; Picket and tent pin; Safety-pin; Scarf-pin.
Pin. C. A. Johnson. No. 1,020,648; Mar. 19; Sp. p. 3494; Gaz. vol. 176; p. 617.
Pin. E. Morehouse. No. 1,028,477; June 4; Sp. p. 922; Gaz. vol. 179; p. 138.
Pin. C. F. Markham. No. 1,029,205; June 11; Sp. p. 2461; Gaz. vol. 179; p. 419.
Pin. R. K. Maker. No. 1,031,355; July 2; Gaz. vol. 180; p. 178.
Pin. C. F. Markham. No. 1,038,618; Sept. 17; Gaz. vol. 182; p. 555.
Pin. F. A. Goodness. No. 1,041,993; Oct. 22; Gaz. vol. 183; p. 886.
Pin. H. L. Steiner. No. 1,042,496; Oct. 29; Gaz. vol. 183; p. 1083.
Pin. M. G. Norton. No. 1,047,556; Dec. 17; Gaz. vol. 185; p. 683.
Pin and flower holder. J. J. Degenhardt. No. 1,039,910; Oct. 1; Gaz. vol. 183; p. 80.
Pin attachment. H. W. Morgan. No. 1,036,883; Aug. 27; Gaz. vol. 181; p. 944.
Pin box or case. S. H. Grobman. No. 1,046,065; Dec. 3; Gaz. vol. 185; p. 91.
Pin-guard. R. L. Prahar. No. 1,018,131; Feb. 20; Sp. p. 4227; Gaz. vol. 175; p. 727.
Pin-guard. H. W. Mattoni. No. 1,024,268; Apr. 23; Sp. p. 5391; Gaz. vol. 177; p. 944.
Pin-guard. C. O. Nilsson. No. 1,027,427; May 28; Sp. p. 5164; Gaz. vol. 178; p. 905.
Pin-guard. I. C. Woodward. No. 1,044,963; Nov. 19; Gaz. vol. 184; p. 728.
Pin-lock. L. R. Steel. No. 1,014,915; Jan. 16; Sp. p. 4068; Gaz. vol. 174; p. 688.
Pin-point guard. J. Anderson. No. 1,024,762; Apr. 30; Sp. p. 6513; Gaz. vol. 177; p. 1147.
Pin-pool board. F. C. Hobbs. No. 1,049,235; Dec. 31; Gaz. vol. 185; p. 1323.
Pin-protector. A. Burk. No. 1,045,369; Nov. 26; Gaz. vol. 184; p. 898.
Pin-remover. C. Z. Smith. No. 1,019,195; Mar. 5; Sp. p. 418; Gaz. vol. 176; p. 66.
Pin safety-catch. E. Morehouse. No. 1,034,136; July 30; Gaz. vol. 180; p. 1273.
Pin safety-lock. S. J. E. Wilhjelm. No. 1,015,603; Jan. 23; Sp. p. 5546; Gaz. vol. 174; p. 950.
Pin-spotting mechanism. W. M. Farrow, Jr. No. 1,041,055; Oct. 15; Gaz. vol. 183; p. 533.
Pin-tongue and fastening therefor. H. A. Sadler. No. 1,033,621; July 23; Gaz. vol. 180; p. 1070.
Pin-tumbler lock. P. F. Augenbraun. No. 1,047,482; Dec. 17; Gaz. vol. 185; p. 656.
Pin-tumbler lock. P. F. Augenbraun. No. 1,047,483; Dec. 17; Gaz. vol. 185; p. 657.
Pin-tumbler lock having interchangeable cylinder extensions. J. H. Shaw. No. 1,027,777; May 28; Sp. p. 5861; Gaz. vol. 178; p. 1020.
Pins, Holder for a paper of. G. Giugliano. No. 1,038,345; Sept. 10; Gaz. vol. 182; p. 425.
Pins, links, and the like from manganese steel, Manufacture of. W. S. Potter. No. 1,018,361; Feb. 20; Sp. p. 4682; Gaz. vol. 175; p. 804.
Pins, Machine for feeding and driving. W. F. Fraser. No. 1,036,211; Aug. 20; Gaz. vol. 181; p. 684.
Pins, paper-clips, &c., Device for holding and delivering small articles, such as. D. G. Butts. No. 1,041,016; Oct. 15; Gaz. vol. 183; p. 520.
Pins with head-plates, Providing metallic. H. J. Edel. No. 1,034,091; July 30; Gaz. vol. 180; p. 1258.
Pincushion. G. Von Daam. No. 1,020,333; Mar. 12; Sp. p. 2800; Gaz. vol. 176; p. 475.
Pinacones, Producing. F. Hofmann, K. Delbrück, and K. Meisenburg. No. 1,039,739; Oct. 1; Gaz. vol. 183; p. 24.
Pinacones, Producing. F. Hofmann, K. Delbrück, and K. Meisenburg. No. 1,039,740; Oct. 1; Gaz. vol. 183; p. 24.
Pince-nez. A. R. Walter. No. 1,020,585; Mar. 19; Sp. p. 3359; Gaz. vol. 176; p. 597.
Pince-nez spring-frame. J. L. Nicol. No. 1,017,579; Feb. 13; Sp. p. 2949; Gaz. vol. 175; p. 498.
Pincers, Bolt-holding. L. P. Moore. No. 1,020,361; Mar. 12; Sp. p. 2854; Gaz. vol. 176; p. 483.
Pincers, Lasting-. W. and A. W. Huck. No. 1,047,229; Dec. 17; Gaz. vol. 185; p. 566.
Pincers, Lasting-. W. and A. W. Huck. No. 1,047,230; Dec. 17; Gaz. vol. 185; p. 566.
Pincers, pliers, and the like. W. W. Lyons. No. 1,022,489; Apr. 9; Sp. p. 1551; Gaz. vol. 177; p. 278.
Pineapple-peel, Machine for removing the pulp from. O. H. René. No. 1,034,144; July 30; Gaz. vol. 180; p. 1275.
Pineapples, Coloring. L. E. Arnold. No. 1,046,716; Dec. 10; Gaz. vol. 185; p. 361.
Pineapples for canning, Treating. W. A. Baldwin. No. 1,039,350; Sept. 24; Gaz. vol. 182; p. 823.
Pineapples, Means for packing fresh. H. B. Kopf. No. 1,042,928; Oct. 29; Gaz. vol. 183; p. 1233.
Pinion-pulling mechanism. A. J. Hunter. No. 1,045,146; Nov. 26; Gaz. vol. 184; p. 820.
Pipe: *See* Blowpipe; Casting-apparatus delivery-pipe; Concrete pipe; Culvert-pipe; Discharge-pipe; Dry pipe; Gas-pipe; Magazine-pipe; Reed-pipe; Sand-pipe; Service-pipe; Sewer-pipe; Smoker's pipe; Smoking-pipe; Soil-pipe; Stand-pipe; Stovepipe; Tobacco-pipe.
Pipe. G. W. Hamill. No. 1,025,623; May 7; Sp. p. 1166; Gaz. vol. 178; p. 179.
Pipe. C. Elkin. No. 1,027,530; May 28; Sp. p. 5358; Gaz. vol. 178; p. 938.
Pipe. D. W. Womack. No. 1,031,102; July 2; Gaz. vol. 180; p. 90.
Pipe. W. H. Yost. No. 1,031,766; July 9; Gaz. vol. 180; p. 361.
Pipe-actuator. F. G. Horn. No. 1,047,942; Dec. 24; Gaz. vol. 185; p. 845.
Pipe and cable coupling and casing therefor. G. W. Millar. No. 1,028,245; June 4; Sp. p. 409; Gaz. vol. 179; p. 58.
Pipe and conduit bender. J. L. Anderson. No. 1,047,480; Dec. 17; Gaz. vol. 185; p. 656.
Pipe and like coupling. E. Dolenský. No. 1,014,053; Jan. 9; Sp. p. 2163; Gaz. vol. 174; p. 361.
Pipe and tobacco case, Combination. O. A. v. Buckow. No. 1,039,892; Oct. 1; Gaz. vol. 183; p. 75.
Pipe, Attaching a collar to the end of a. P. H. Grimm. No. 1,039,936; Oct. 1; Gaz. vol. 183; p. 86.
Pipe-attaching means for registers, ventilators, &c. A. Gerdum. No. 1,044,513; Nov. 19; Gaz. vol. 184; p. 571.
Pipe attachment. J. W. Lang. No. 1,025,578; May 7; Sp. p. 1067; Gaz. vol. 178; p. 164.
Pipe automatic coupling, Air-. C. Walerius. No. 1,037,089; Aug. 27; Gaz. vol. 181; p. 1013.
Pipe ball-joint. J. A. Rourke. No. 1,041,515; Oct. 15; Gaz. vol. 183; p. 687.
Pipe-balls, Treating. L. W. Jones. No. 1,036,635; Aug. 27; Gaz. vol. 181; p. 862.
Pipe-bend machine, Sewer-. R. L. Rickman. No. 1,032,625; July 16; Gaz. vol. 180; p. 696.
Pipe-bends, Making. J. H. Taylor. No. 1,023,227; Apr. 16; Sp. p. 3178; Gaz. vol. 177; p. 569.
Pipe-bending machine. J. F. Cox. No. 1,013,839; Jan. 2; Sp. p. 1629; Gaz. vol. 174; p. 261.
Pipe-bending tool. H. E. Harmer and W. M. Wyllie. No. 1,026,353; May 14; Sp. p. 2800; Gaz. vol. 178; p. 465.
Pipe-carriers, Foundation-top for. W. J. Fauth. No. 1,047,399; Dec. 17; Gaz. vol. 185; p. 626.
Pipe-case. J. N. Whitehouse. No. 1,033,137; July 23; Gaz. vol. 180; p. 909.

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Pipe-clamp. G. W. Hunt. No. 1,013,165; Jan. 2; Sp. p. 156; Gaz. vol. 174; p. 27.
Pipe-clamp. S. G. Miller. No. 1,014,504; Jan. 9; Sp. p. 3109; Gaz. vol. 174; p. 516.
Pipe-clamp. A. D. Everett. No. 1,041,762; Oct. 22; Gaz. vol. 183; p. 806.
Pipe clamp, Train-. W. Miller. No. 1,030,200; June 18; Sp. p. 4642; Gaz. vol. 179; p. 798.
Pipe-cleaner. A. J. and L. G. Yoggerst. No. 1,047,726; Dec. 17; Gaz. vol. 185; p. 742.
Pipe-cleaning attachment, Jet-. H. E. Werner. No. 1,018,020; Feb. 20; Sp. p. 3967; Gaz. vol. 175; p. 687.
Pipe-cleansing device. J. Weber and J. E. Hampson. No. 1,049,012; Dec. 31; Gaz. vol. 185; p. 1248.
Pipe closure, Air-suction-. W. S. Sutton. No. 1,044,707; Nov. 19; Gaz. vol. 184; p. 640.
Pipe connection. W. Schulz. No. 1,021,378; Mar. 26; Sp. p. 5014; Gaz. vol. 176; p. 915.
Pipe connection. L. F. Breaker. No. 1,027,586; May 28; Sp. p. 5480; Gaz. vol. 178; p. 958.
Pipe connection, Flexible. J. W. Roberts. No. 1,023,274; Apr. 16; Sp. p. 3283; Gaz. vol. 177; p. 586.
Pipe, Connection for sections of hot-air. A. G. Scherer. No. 1,026,607; May 14; Sp. p. 3316; Gaz. vol. 178; p. 548.
Pipe connection, System of train-. A. L. Greenlaw. No. 1,044,644; Nov. 19; Gaz. vol. 184; p. 617.
Pipe connection, Train-. W. A. Greenlaw and R. A. Jewett. No. 1,015,435; Jan. 23; Sp. p. 5183; Gaz. vol. 174; p. 890.
Pipe-coupling. H. W. Clark. No. 1,015,990; Jan. 30; Sp. p. 6372; Gaz. vol. 174; p. 1109.
Pipe-coupling. J. Gapp. No. 1,016,620; Feb. 6; Sp. p. 905; Gaz. vol. 175; p. 135.
Pipe-coupling. F. E. Reusher. No. 1,021,264; Mar. 26; Sp. p. 4798; Gaz. vol. 176; p. 875.
Pipe-coupling. D. W. Ross. No. 1,021,485; Mar. 26; Sp. p. 5290; Gaz. vol. 176; p. 954.
Pipe-coupling. G. B. Kissinger. No. 1,026,211; May 14; Sp. p. 2485; Gaz. vol. 178; p. 416.
Pipe-coupling. H. Shipp. No. 1,026,966; May 21; Sp. p. 4164; Gaz. vol. 178; p. 710.
Pipe-coupling. W. E. Moreland. No. 1,029,453; June 11; Sp. p. 3016; Gaz. vol. 179; p. 505.
Pipe-coupling. W. L. McCormick. No. 1,030,107; June 18; Sp. p. 4442; Gaz. vol. 179; p. 767.
Pipe-coupling. J. Gapp. No. 1,034,781; Aug. 6; Gaz. vol. 181; p. 128.
Pipe-coupling. F. W. Bradley. No. 1,034,965; Aug. 6; Gaz. vol. 181; p. 189.
Pipe-coupling. H. C. Werner. No. 1,035,063; Aug. 6; Gaz. vol. 181; p. 219.
Pipe-coupling. C. Forth. No. 1,035,564; Aug. 13; Gaz. vol. 181; p. 425.
Pipe-coupling. C. Forth. No. 1,035,565; Aug. 13; Gaz. vol. 181; p. 425.
Pipe-coupling. F. J. Glover. No. 1,037,238; Sept. 3; Gaz. vol. 182; p. 21.
Pipe-coupling. J. M. Langford. No. 1,038,396; Sept. 10; Gaz. vol. 182; p. 442.
Pipe-coupling. J. H. Shepherd. No. 1,038,669; Sept. 17; Gaz. vol. 182; p. 572.
Pipe-coupling. H. H. Hale. No. 1,040,191; Oct. 1; Gaz. vol. 183; p. 174.
Pipe-coupling. E. L. Blood. No. 1,045,667; Nov. 26; Gaz. vol. 184; p. 1006.
Pipe-coupling. J. N. Goodall. No. 1,046,175; Dec. 3; Gaz. vol. 185; p. 129.
Pipe-coupling. B. R. Long. No. 1,046,817; Dec. 10; Gaz. vol. 185; p. 395.
Pipe-coupling. D. J. W. Murdock. No. 1,048,855; Dec. 31; Gaz. vol. 185; p. 1194.
Pipe coupling and valve, Combined train-. J. M. Michaelson. No. 1,013,418; Jan. 2; Sp. p. 728; Gaz. vol. 174; p. 115.
Pipe coupling, Automatic train-. A. M. Porter. No. 1,021,261; Mar. 26; Sp. p. 4791; Gaz. vol. 176; p. 875.
Pipe coupling, Automatic train-. N. F. Niederlander. No. 1,025,291; May 7; Sp. p. 396; Gaz. vol. 178; p. 65.
Pipe coupling, Automatic train-. T. H. Rutherford. No. 1,025,540; May 7; Sp. p. 974; Gaz. vol. 178; p. 151.
Pipe-coupling box-flange. H. Mueller. No. 1,039,315; Sept. 24; Gaz. vol. 182; p. 811.
Pipe-coupling clamping-ring. G. H. White. No. 1,036,944; Aug. 27; Gaz. vol. 181; p. 963.
Pipe-coupling clamping-rings, Manufacturing. G. H. White. No. 1,032,718; July 16; Gaz. vol. 180; p. 730.
Pipe coupling, Gas-. S. Schwed. No. 1,042,370; Oct. 22; Gaz. vol. 183; p. 1010.
Pipe coupling-nuts, Apparatus for attaching. P. Mueller and A. C. Schuermann. No. 1,018,207; Feb. 20; Sp. p. 4385; Gaz. vol. 175; p. 753.
Pipe-coupling, Rubber-packed. F. A. Miller. No. 1,032,761; July 16; Gaz. vol. 180; p. 745.
Pipe-coupling system, Railway-train air-. G. C. Read. No. 1,018,342; Feb. 20; Sp. p. 4640; Gaz. vol. 175; p. 798.
Pipe-coupling tool. A. L. Keyes. No. 1,035,448; Aug. 13; Gaz. vol. 181; p. 385.
Pipe coupling, Train-. C. Plopa and J. Popp. No. 1,036,330; Aug. 20; Gaz. vol. 181; p. 725.
Pipe coupling, Train-. W. A. Greenlaw. No. 1,039,731; Oct. 1; Gaz. vol. 183; p. 21.
Pipe-coupling, Universal. M. H. and H. Niesen. No. 1,020,839; Mar. 19; Sp. p. 3907; Gaz. vol. 176; p. 683.
Pipe-couplings, Apparatus for making. J. H. Roney. No. 1,017,322; Feb. 13; Sp. p. 2425; Gaz. vol. 175; p. 412.
Pipe-cover. A. S. Speirs. No. 1,016,792; Feb. 6; Sp. p. 1251; Gaz. vol. 175; p. 193.
Pipe-covering, Applying. F. M. Gilmore. No. 1,013,291; Jan. 2; Sp. p. 458; Gaz. vol. 174; p. 71.
Pipe-cutter. W. H. E. and E. Charpier. No. 1,018,695; Feb. 27; Sp. p. 5480; Gaz. vol. 175; p. 950.
Pipe-cutter. J. R. Long. No. 1,019,063; Mar. 5; Sp. p. 108; Gaz. vol. 176; p. 21.
Pipe-cutter. J. R. Smith. No. 1,020,580; Mar. 19; Sp. p. 3351; Gaz. vol. 176; p. 595.
Pipe-cutter. A. F. Howe. No. 1,040,202; Oct. 1; Gaz. vol. 183; p. 179.
Pipe-cutting tool. B. Borden. No. 1,017,037; Feb. 13; Sp. p. 1788; Gaz. vol. 175; p. 311.
Pipe-cutting tool. B. Borden. No. 1,020,795; Mar. 19; Sp. p. 3811; Gaz. vol. 176; p. 667.
Pipe-cutting tool. B. Borden. No. 1,029,265; June 11; Sp. p. 2584; Gaz. vol. 179; p. 439.
Pipe-cutting machine. L. R. Blackmore. No. 1,042,998; Oct. 29; Gaz. vol. 183; p. 1257.
Pipe-elbow-forming machine. C. G. Naylor. No. 1,032,152; July 9; Gaz. vol. 180; p. 490.
Pipe-elbows, Machine for forming crimped. J. Dymond. No. 1,020,028; Mar. 12; Sp. p. 2175; Gaz. vol. 176; p. 375.
Pipe-elbows, Machine for making sheet-metal. F. Brune. No. 1,047,375; Dec. 17; Gaz. vol. 185; p. 619.
Pipe-end-closing device. W. A. Fleming. No. 1,013,932; Jan. 9; Sp. p. 1891; Gaz. vol. 174; p. 322.
Pipe-fittings, Apparatus for attaching collars or flanges to. P. Mueller and A. C. Schuermann. No. 1,034,726; Aug. 6; Gaz. vol. 181; p. 108.
Pipe-fittings, Device for manipulating. P. Mueller. No. 1,024,095; Apr. 23; Sp. p. 4989; Gaz. vol. 177; p. 882.
Pipe-fittings, Machine for threading. C. Westen. No. 1,020,529; Mar. 19; Sp. p. 3225; Gaz. vol. 176; p. 577.
Pipe-flange. P. Mueller. No. 1,034,725; Aug. 6; Gaz. vol. 181; p. 108.
Pipe-flanging machine. R. M. Hunter. No. 1,039,948; Oct. 1; Gaz. vol. 183; p. 92.
Pipe-forming apparatus. G. M. Myers. No. 1,015,334; Jan. 23; Sp. p. 4967; Gaz. vol. 174; p. 857.
Pipe-forming machine. O. H. Taeschner and R. E. Wirth. No. 1,032,634; July 16; Gaz. vol. 180; p. 700.
Pipe-grab. C. J. and R. C. Curtis. No. 1,034,210; July 30; Gaz. vol. 180; p. 1297.
Pipe-grabber. E. E. Greenley. No. 1,036,220; Aug. 20; Gaz. vol. 181; p. 688.
Pipe-handling apparatus, Clay-. E. Babb. No. 1,042,307; Oct. 22; Gaz. vol. 183; p. 989.
Pipe-hanger. H. M. Lofton, E. E. Butler, and R. M. Hunter. No. 1,013,187; Jan. 2; Sp. p. 190; Gaz. vol. 174; p. 34.
Pipe-hanger. P. N. Kenway. No. 1,017,975; Feb. 20; Sp. p. 3886; Gaz. vol. 175; p. 672.
Pipe-hanger. L. A. Carpenter and R. Middleton. No. 1,025,243; May 7; Sp. p. 296; Gaz. vol. 178; p. 48.
Pipe-hanger. W. A. Bowers. No. 1,047,159; Dec. 17; Gaz. vol. 185; p. 540.
Pipe-hanger. J. A. and J. H. Healy. No. 1,049,085; Dec. 31; Gaz. vol. 185; p. 1273.
Pipe-interior-examining device. W. W. Dixon. No. 1,035,426; Aug. 13; Gaz. vol. 181; p. 378.
Pipe-joint. A. R. Fairfield. No. 1,018,354; Feb. 20; Sp. p. 4662; Gaz. vol. 175; p. 801.
Pipe-joint. A. G. Elvin. No. 1,030,065; June 18; Sp. p. 4361; Gaz. vol. 179; p. 752.
Pipe-joint. C. P. Hall. No. 1,030,237; June 18; Sp. p. 4715; Gaz. vol. 179; p. 811.
Pipe-joint. R. R. Rust. No. 1,037,171; Aug. 27; Gaz. vol. 181; p. 1040.
Pipe-joint. H. G. Gillmor and W. R. Haysom. No. 1,045,389; Nov. 26; Gaz. vol. 184; p. 904.
Pipe-joint. F. N. Cronholm. No. 1,048,045; Dec. 24; Gaz. vol. 185; p. 878.
Pipe-joint. C. Westphal. No. 1,049,283; Dec. 31; Gaz. vol. 185; p. 1339.
Pipe-joint and the like. R. R. Row. No. 1,020,929; Mar. 19; Sp. p. 4076; Gaz. vol. 176; p. 712.
Pipe-joint, Ball-and-socket. C. A. Kiel. No. 1,022,197; Apr. 2; Sp. p. 944; Gaz. vol. 177; p. 151.
Pipe-joint-calking machine. C. C. Simpson, Jr. No. 1,033,279; July 23; Gaz. vol. 180; p. 958.
Pipe-joint-clamping device. R. S. Lord. No. 1,019,717; Mar. 5; Sp. p. 1536; Gaz. vol. 176; p. 238.
Pipe-joint, Expansion. J. W. Wyton. No. 1,013,258; Jan. 2; Sp. p. 367; Gaz. vol. 174; p. 59.
Pipe-joint, Swivel. N. F. Niederlander and R. E. Adreon. No. 1,015,904; Jan. 30; Sp. p. 6191; Gaz. vol. 174; p. 1079.
Pipe-joints of the bell and spigot type, Repair-clamp for. J. Clark and G. Irwin. No. 1,039,488; Sept. 24; Gaz. vol. 182; p. 871.
Pipe-laying machine. M. H. Keeler. No. 1,015,893; Jan. 30; Sp. p. 6166; Gaz. vol. 174; p. 1075.

Pipe-laying machine. N. Anderson. No. 1,028,523; June 4; Sp. p. 1007; Gaz. vol. 179; p. 153.
Pipe lifting and lowering jack. T. M. Smith. No. 1,018,936; Feb. 27; Sp. p. 5987; Gaz. vol. 175; p. 1032.
Pipe-line coupling. H. O. Lloyd-Jones. No. 1,026,686; May 21; Sp. p. 3514; Gaz. vol. 178; p. 612.
Pipe-lines, Device for passing cables through. B. B. Hodgman. No. 1,036,114; Aug. 20; Gaz. vol. 181; p. 648.
Pipe-lining apparatus. J. O. Persons. No. 1,016,770; Feb. 6; Sp. p. 1210; Gaz. vol. 175; p. 186.
Pipe-lock, Fluid-feed. W. W. Bridges. No. 1,024,180; Apr. 23; Sp. p. 5189; Gaz. vol. 177; p. 911.
Pipe-machine. W. McConnell. No. 1,019,505; Mar. 5; Sp. p. 1152; Gaz. vol. 176; p. 169.
Pipe-machines, Reaming-tool holder for. J. F. Linehan. No. 1,016,889; Feb. 6; Sp. p. 1437; Gaz. vol. 175; p. 224.
Pipe-making machine. A. C. Tunison. No. 1,025,035; Apr. 30; Sp. p. 7062; Gaz. vol. 177; p. 1241.
Pipe-making machine. J. Fraser. No. 1,037,888; Sept. 10; Gaz. vol. 182; p. 271.
Pipe-making press. J. Fraser. No. 1,037,889; Sept. 10; Gaz. vol. 182; p. 271.
Pipe-mold. T. J. Schuricht. No. 1,039,596; Sept. 24; Gaz. vol. 182; p. 909.
Pipe or conduit coupling. F. W. Erickson. No. 1,041,260; Oct. 15; Gaz. vol. 183; p. 603.
Pipe or culvert. M. Lachman. No. 1,043,944; Nov. 12; Gaz. vol. 184; p. 347.
Pipe or hose coupling. P. R. Bradley. No. 1,022,927; Apr. 9; Sp. p. 2510; Gaz. vol. 177; p. 428.
Pipe or launder. J. L. Clark. No. 1,016,815; Feb. 6; Sp. p. 1295; Gaz. vol. 175; p. 199.
Pipe or tube bending machine. J. F. Cox. No. 1,021,449; Mar. 26; Sp. p. 5210; Gaz. vol. 176; p. 942.
Pipe or tube bending machine. J. F. Cox. No. 1,021,450; Mar. 26; Sp. p. 5211; Gaz. vol. 176; p. 942.
Pipe or tube cutter. W. T. Ramage. No. 1,045,884; Dec. 3; Gaz. vol. 185; p. 30.
Pipe-perforator. C. E. Frederickson. No. 1,015,432; Jan. 23; Sp. p. 5172; Gaz. vol. 174; p. 889.
Pipe-protector. C. Elkin. No. 1,041,256; Oct. 15; Gaz. vol. 183; p. 602.
Pipe-prover, Hydraulic. E. Crisandt. No. 1,034,426; Aug. 6; Gaz. vol. 181; p. 10.
Pipe-pulling machine. J. Krulich. No. 1,031,185; July 2; Gaz. vol. 180; p. 120.
Pipe-reamer. J. R. Desjardins. No. 1,028,001; May 28; Sp. p. 6392; Gaz. vol. 178; p. 1096.
Pipe-reamer. D. M. Hatton. No. 1,038,881; Sept. 17; Gaz. vol. 182; p. 647.
Pipe-reamer. J. R. Long. No. 1,038,913; Sept. 17; Gaz. vol. 182; p. 658.
Pipe-reaming machine. J. R. Long. No. 1,038,914; Sept. 17; Gaz. vol. 182; p. 658.
Pipe-relief, Automatic. J. K. Peacock. No. 1,044,416; Nov. 12; Gaz. vol. 184; p. 509.
Pipe-repair device. C. F. Doellner. No. 1,045,376; Nov. 26; Gaz. vol. 184; p. 901.
Pipe-rig coupling. H. J. Gibney and J. A. Wolfe. No. 1,035,697; Aug. 13; Gaz. vol. 181; p. 468.
Pipe-roll. A. J. Beaton. No. 1,044,850; Nov. 19; Gaz. vol. 184; p. 690.
Pipe shield, Steam-. M. Sanders. No. 1,039,818; Oct. 1; Gaz. vol. 183; p. 50.
Pipe stopple, Drain-. C. F. Holcomb. No. 1,042,002; Oct. 22; Gaz. vol. 183; p. 889.
Pipe-support. A. H. Lyon. No. 1,021,689; Mar. 26; Sp. p. 5671; Gaz. vol. 176; p. 1021.
Pipe-tamper, &c. P. Dodge. No. 1,019,028; Mar. 5; Sp. p. 27; Gaz. vol. 176; p. 8.
Pipe-tapping means. C. W. Metcalf. No. 1,016,026; Jan. 30; Sp. p. 6445; Gaz. vol. 174; p. 1122.
Pipe-thawing, Electric heater for. T. Abtmeyer. No. 1,015,923; Jan. 30; Sp. p. 6225; Gaz. vol. 174; p. 1085.
Pipe-threaders, Gripping means for bench. W. L. Goodman. No. 1,047,932; Dec. 24; Gaz. vol. 185; p. 842.
Pipe threading and reaming device. L. S. Frost. No. 1,026,668; May 21; Sp. p. 3472; Gaz. vol. 178; p. 606.
Pipe threading and reaming device. C. A. Anderson. No. 1,036,409; Aug. 20; Gaz. vol. 181; p. 753.
Pipe-threading die. B. Borden. No. 1,038,482; Sept. 10; Gaz. vol. 182; p. 473.
Pipe-threading machine. W. M. Neckerman. No. 1,013,212; Jan. 2; Sp. p. 255; Gaz. vol. 174; p. 42.
Pipe-threading machine. S. M. Stough and H. C. Larick. No. 1,035,491; Aug. 13; Gaz. vol. 181; p. 399.
Pipe-threading tool. C. S. Cochran. No. 1,017,853; Feb. 20; Sp. p. 3586; Gaz. vol. 175; p. 629.
Pipe-threading tool. B. Borden. No. 1,029,662; June 18; Sp. p. 3449; Gaz. vol. 179; p. 612.
Pipe-threading tool. B. Borden. No. 1,029,968; June 18; Sp. p. 4148; Gaz. vol. 179; p. 719.
Pipe-threading tool. B. Borden. No. 1,048,644; Dec. 31; Gaz. vol. 185; p. 1120.
Pipe threadless coupling. G. W. Kern. No. 1,048,703; Dec. 31; Gaz. vol. 185; p. 1142.
Pipe trap, Drain-. H. C. Leonard. No. 1,035,366; Aug. 13; Gaz. vol. 181; p. 357.
Pipe-vise and pipe-cutter, Combined. C. Brack. No. 1,046,255; Dec. 3; Gaz. vol. 185; p. 159.
Pipe-wrench. J. Maher. No. 1,016,079; Jan. 30; Sp. p. 6576; Gaz. vol. 174; p. 1141.
Pipe-wrench. W. A. Hyle. No. 1,016,997; Feb. 13; Sp. p. 1708; Gaz. vol. 175; p. 298.
Pipe-wrench. A. Serfoss. No. 1,019,280; Mar. 5; Sp. p. 616; Gaz. vol. 176; p. 96.
Pipe-wrench. R. Geoffroy. No. 1,019,450; Mar. 5; Sp. p. 1027; Gaz. vol. 176; p. 151.
Pipe-wrench. I. M. Edmundson. No. 1,021,584; Mar. 26; Sp. p. 5495; Gaz. vol. 176; p. 987.
Pipe-wrench. H. R. Sinclair and C. Ekman. No. 1,023,533; Apr. 16; Sp. p. 3776; Gaz. vol. 177; p. 668.
Pipe-wrench. H. S. Tucker. No. 1,024,043; Apr. 23; Sp. p. 4871; Gaz. vol. 177; p. 864.
Pipe-wrench. L. Whitcomb. No. 1,024,167; Apr. 23; Sp. p. 5165; Gaz. vol. 177; p. 907.
Pipe-wrench. H. L. Marty. No. 1,024,519; Apr. 30; Sp. p. 5961; Gaz. vol. 177; p. 1062.
Pipe-wrench. W. A. Hyle. No. 1,026,040; May 14; Sp. p. 2078; Gaz. vol. 178; p. 356.
Pipe-wrench. W. W. Leonard. No. 1,026,270; May 14; Sp. p. 2598; Gaz. vol. 178; p. 435.
Pipe-wrench. O. W. Hall. No. 1,026,802; May 21; Sp. p. 3768; Gaz. vol. 178; p. 652.
Pipe-wrench. A. S. Erquhart and J. C. Hummel. No. 1,030,881; July 2; Gaz. vol. 180; p. 11.
Pipe-wrench. J. Helm. No. 1,031,261; July 2; Gaz. vol. 180; p. 146.
Pipe-wrench. A. E. Ver Beck. No. 1,032,035; July 9; Gaz. vol. 180; p. 452.
Pipe-wrench. A. Weigand. No. 1,034,047; July 30; Gaz. vol. 180; p. 1243.
Pipe-wrench. W. L. Bessolo. No. 1,037,109; Aug. 27; Gaz. vol. 181; p. 1020.
Pipe-wrench. W. S. Wilkinson. No. 1,037,387; Sept. 3; Gaz. vol. 182; p. 70.
Pipe-wrench. A. J. Cooper. No. 1,037,872; Sept. 10; Gaz. vol. 182; p. 265.
Pipe-wrench. E. J. Spink. No. 1,038,671; Sept. 17; Gaz. vol. 182; p. 573.
Pipe-wrench. E. G. Diefendorf. No. 1,041,978; Oct. 22; Gaz. vol. 183; p. 881.
Pipe-wrench. C. B. Visness. No. 1,042,175; Oct. 22; Gaz. vol. 183; p. 946.
Pipe-wrench. F. Mossberg. No. 1,044,069; Nov. 12; Gaz. vol. 184; p. 390.
Pipe-wrench. W. J. Brightwell. No. 1,048,937; Dec. 31; Gaz. vol. 185; p. 1222.
Pipe wrench and cutter. M. B. Sheridan. No. 1,032,784; July 16; Gaz. vol. 180; p. 752.
Pipe-wrench and pipe-cutter, Combination. C. L. Lyons. No. 1,016,946; Feb. 13; Sp. p. 1590; Gaz. vol. 175; p. 280.
Pipe-wrench attachment for monkey-wrenches. E. Brahan. No. 1,035,775; Aug. 13; Gaz. vol. 181; p. 494.
Pipe-wrench, Chain. G. Amborn. No. 1,014,931; Jan. 16; Sp. p. 4117; Gaz. vol. 174; p. 693.
Pipe-wrench, Chain. D. Caryl. No. 1,015,667; Jan. 23; Sp. p. 5681; Gaz. vol. 174; p. 971.
Pipe-wrench, Chain. J. J. Donoghue. No. 1,021,357; Mar. 26; Sp. p. 4983; Gaz. vol. 176; p. 910.
Pipe-wrench, Chain. M. A. Duquett. No. 1,043,813; Nov. 12; Gaz. vol. 184; p. 300.
Pipes, Adjustable screw-joint coupling for supply-. P. Mueller. No. 1,039,575; Sept. 24; Gaz. vol. 182; p. 903.
Pipes, Adjustable screw-joint coupling for supply-. A. C. Schuermann. No. 1,043,364; Nov. 5; Gaz. vol. 184; p. 115.
Pipes and cigarette-holders, Mouthpiece for tobacco-. M. Wittenberg. No. 1,025,440; May 7; Sp. p. 749; Gaz. vol. 178; p. 116.
Pipes and tubes, Apparatus for rifling. C. Fell. No. 1,033,568; July 23; Gaz. vol. 180; p. 1052.
Pipes, Ascertaining the location of leaks in underground fluid-pressure. G. V. Payne. No. 1,041,156; Oct. 15; Gaz. vol. 183; p. 567.
Pipes, Bending. M. Schitzkowsky. No. 1,041,176; Oct. 15; Gaz. vol. 183; p. 574.
Pipes, Bur-remover for. H. T. Merriam. No. 1,036,298; Aug. 20; Gaz. vol. 181; p. 713.
Pipes, &c., Cap-closure for. J. Y. Patterson. No. 1,044,235; Nov. 12; Gaz. vol. 184; p. 446.
Pipes, cigar and like holders, Stem for smoking-. F. T. Sullivan. No. 1,045,631; Nov. 26; Gaz. vol. 184; p. 993.
Pipes, Forming flanges on. S. Babbitt and C. Housum. No. 1,046,138; Dec. 3; Gaz. vol. 185; p. 117.
Pipes from the injurious action of electric currents, Means for protecting. G. Politz. No. 1,032,295; July 9; Gaz. vol. 180; p. 541.
Pipes, Machine for removing burs from metal. G. Berghausen. No. 1,029,584; June 18; Sp. p. 3279; Gaz. vol. 179; p. 584.
Pipes, Manufacturing rifled. C. Fell. No. 1,033,569; July 23; Gaz. vol. 180; p. 1053.
Pipes, Means for removing scales, &c., from metallic. J. E. Jones. No. 1,031,558; July 2; Gaz. vol. 180; p. 246.
Pipes of pneumatic systems, Means for clearing the. I. H. Spencer. No. 1,046,884; Dec. 10; Gaz. vol. 185; p. 417.

Alphabetical list of inventions—Continued.

Pipes or casings from earth-borings, Jack for removing. A. C. Ludlum. No. 1,037,179; Aug. 27; Gaz. vol. 181; p. 1043.
Pipes, Perforation-cleaner for oil-well. J. W. Batt. No. 1,040,118; Oct. 1; Gaz. vol. 183; p. 150.
Pipes, Removable mouthpiece for smoking-. F. R. Lindley. No. 1,037,780; Sept. 3; Gaz. vol. 182; p. 201.
Pipes, &c., Self-packing connection for. W. B. Dale. No. 1,024,560; Apr. 30; Sp. p. 6078; Gaz. vol. 177; p. 1076.
Pipes to pipe-lines, Saddle for attaching. F. N. Smith. No. 1,048,364; Dec. 24; Gaz. vol. 185; p. 985.
Pipes, Tool for removing burs internally on. H. T. Merriam. No. 1,049,124; Dec. 31; Gaz. vol. 185; p. 1287.
Pipes, tubes, &c., Device for expanding. H. G. Gillmor. No. 1,046,457; Dec. 10; Gaz. vol. 185; p. 267.
Piping, Sheet-metal. R. T. Semmes. No. 1,017,920; Feb. 20; Sp. p. 3760; Gaz. vol. 175; p. 654.
Piping system, Gland. J. F. Metten. No. 1,042,810; Oct. 29; Gaz. vol. 183; p. 1192.
Piping, Universal angle-coupling and valve-seat for. H. G. Haase. No. 1,031,642; July 2; Gaz. vol. 180; p. 275.
Piperylene, Producing. L. P. Kyriakides and R. B. Earle. No. 1,033,179; July 23; Gaz. vol. 180; p. 923.
Pistol attachment. J. A. G. Marshall. No. 1,027,556; May 28; Sp. p. 5408; Gaz. vol. 178; p. 948.
Pistol, Automatic. H. Rosier. No. 1,023,966; Apr. 23; Sp. p. 4714; Gaz. vol. 177; p. 836.
Pistol, Automatic. J. H. Wesson. No. 1,033,971; July 30; Gaz. vol. 180; p. 1215.
Pistol, Automatic. J. H. Wesson. No. 1,039,232; Sept. 24; Gaz. vol. 182; p. 781.
Pistol-holster carrier. F. H. Audley. No. 1,037,717; Sept. 3; Gaz. vol. 182; p. 181.
Pistol-holster hanger. F. R. Lewis. No. 1,045,713; Nov. 26; Gaz. vol. 184; p. 1022.
Pistol of the kind having sliding barrels, Self-loading. R. Frommer. No. 1,039,922; Oct. 1; Gaz. vol. 183; p. 84.
Pistol or gun, Air. G. Norman. No. 1,043,534; Nov. 5; Gaz. vol. 184; p. 175.
Pistol, Repeating cap-. W. F. Gehrig. No. 1,041,267; Oct 15; Gaz. vol. 183; p. 605.
Pistol-stock. J. S. Kimmel. No. 1,016,695; Feb. 6; Sp. p. 1050; Gaz. vol. 175; p. 160.
Pistol, Tape-. C. A. Bailey. No. 1,041,719; Oct. 22; Gaz. vol. 183; p. 789.
Pistol with fixed barrel, Recoil-loading. P. Mauser. No. 1,047,671; Dec. 17; Gaz. vol. 185; p. 724.
Pistols with fixed barrels, Firing mechanism for recoil-loading. P. Mauser. No. 1,041,648; Oct. 15; Gaz. vol. 183; p. 730.
Piston. H. Dock. No. 1,014,052; Jan. 9; Sp. p. 2162; Gaz. vol. 174; p. 361.
Piston. M. V. Smith. No. 1,014,782; Jan. 16; Sp. p. 3767; Gaz. vol. 174; p. 641.
Piston. G. H. Stallman. No. 1,031,739; July 9; Gaz. vol. 180; p. 352.
Piston. E. T. Robinson. No. 1,038,510; Sept. 10; Gaz. vol. 182; p. 483.
Piston. E. T. Allen. No. 1,045,930; Dec. 3; Gaz. vol 185; p. 46.
Piston-actuated mechanism. C. M. Mock, A. U. Gerber, and H. Cordell. No. 1,023,267; Apr. 16; Sp. p. 3269; Gaz. vol. 177; p. 584.
Piston-cylinder. B. Willhide. No. 1,048,018; Dec. 24; Gaz. vol. 185; p. 869.
Piston, Expansible. E. Van Bever. No. 1,031,212; July 2; Gaz. vol. 180; p. 129.
Piston for explosive-engines. J. Bittner. No. 1,017,498; Feb. 13; Sp. p. 2801; Gaz. vol. 175; p. 473.
Piston, Gas-engine. F. De Fazi. No. 1,021,577; Mar. 26; Sp. p. 5484; Gaz. vol. 176; p. 985.
Piston-lift. D. F. Denham. No. 1,019,433; Mar. 5; Sp. p. 993; Gaz. vol. 176; p. 145.
Piston lubrication. G. H. Trémollières. No. 1,030,213; June 18; Sp. p. 4667; Gaz. vol. 179; p. 802.
Piston-ring clamp, Adjustable. C. E. Wake. No. 1,017,828; Feb. 20; Sp. p. 3525; Gaz. vol. 175; p. 620.
Piston-ring collar. J. J. Whitty. No. 1,013,349; Jan. 2; Sp. p. 578; Gaz. vol. 174; p. 92.
Piston-ring-testing device. D. J. Campbell. No. 1,036,448; Aug. 20; Gaz. vol. 181; p. 766.
Piston-rings, Closing and chucking device for. D. E. Domizi. No. 1,031,987; July 9; Gaz. vol. 180; p. 436.
Piston-rings, Tool for inserting. L. J. Brown. No. 1,042,764; Oct. 29; Gaz. vol. 183; p. 1177.
Piston-rod connection. C. B. Redrup. No. 1,014,517; Jan. 9; Sp. p. 3133; Gaz. vol. 174; p. 521.
Piston-rod-extension guide. C. L. Heisler. No. 1,019,150; Mar. 5; Sp. p. 323; Gaz. vol. 176; p. 50.
Pistons, Device for removing water from heated. W. Schmidt. No. 1,047,710; Dec. 17; Gaz. vol. 185; p. 737.
Pit cages, lifts, and the like, Safety appliance for. G. W. Lester. No. 1,043,323; Nov. 5; Gaz. vol. 184; p. 100.
Pit-cages, Railing or guard for. H. R. Bowers. No. 1,044,982; Nov. 19; Gaz. vol. 184; p. 735.
Pit-cover. J. C. Cromwell. No. 1,013,278; Jan. 2; Sp. p. 411; Gaz. vol. 174; p. 66.
Pitch-board. C. M. Miller. No. 1,035,379; Aug. 13; Gaz. vol. 181; p. 362.
Pitch from casks and the like, Apparatus for removing. H. and H. E. Rauch. No. 1,040,410; Oct. 8; Gaz. vol. 183; p. 278.
Pitcher, Self-. O. D. Hutts. No. 1,034,366; July 30; Gaz. vol. 180; p. 1353.
Pitcher, Syrup-. J. S. Jones. No. 1,024,786; Apr. 30; Sp. p. 6570; Gaz. vol. 177; p. 1156.
Pitching-machine. J. H. G. Zunner. No. 1,026,729; May 21; Sp. p. 3608; Gaz. vol. 178; p. 627.
Pitchfork and rake. C. D. Ryker. No. 1,034,306; July 30; Gaz vol. 180; p. 1331.
Pitchfork attachment. G. A. Osterud. No. 1,031,958; July 9; Gaz. vol. 180; p. 427.
Pitchometer. W. F. Rice. No. 1,021,797; Apr. 2; Sp. p. 86; Gaz. vol. 177; p. 18.
Pitman connection. C. Pearson. No. 1,026,826; May 21; Sp. p. 3817; Gaz. vol. 178; p. 660.
Pitman connection. B. R. Benjamin. No. 1,029,259; June 11; Sp. p. 2575; Gaz. vol. 179; p. 437.
Pitman connection. B. R. Benjamin. No. 1,029,260; June 11; Sp. p. 2576; Gaz. vol. 179; p. 437.
Pitman-cuff. N. H. Williamson. No. 1,034,553; Aug. 6; Gaz. vol. 181; p. 51.
Pitmen and the like, Safety device for. H. C. Shaw and W. H. Morse. No. 1,048,358; Dec. 24; Gaz. vol. 185; p. 983.
Pitting machine, Cling-peach-. E. Nyswonger. No. 1,042,590; Oct. 29; Gaz. vol. 183; p. 1116.
Pivoted and balanced device, Ball-bearing. L. Badger. No. 1,023,609; Apr. 16; Sp. p. 3948; Gaz. vol. 177; p. 693.
Placer separator and concentrator, Dry. N. C. Westerfield. No. 1,029,651; June 18; Sp. p. 3419; Gaz. vol. 179; p. 609.
Placket-fastener. J. S. Bashaw. No. 1,016,909; Feb. 6; Sp. p. 1496; Gaz. vol. 175; p. 231.
Placket-fastener. W. F. Bowen. No. 1,043,753; Nov. 5; Gaz. vol. 184; p. 249.
Plaiting device. J. J. Temple. No. 1,022,802; Apr. 9; Sp. p. 2251; Gaz. vol. 177; p. 385.
Plaiting-machine. E. Diebold. No. 1,028,446; June 4; Sp. p. 850; Gaz. vol. 179; p. 127.
Plane. T. A. Manley. No. 1,021,369; Mar. 26; Sp. p. 5001; Gaz. vol. 176; p. 913.
Plane. C. Bodmer. No. 1,026,636; May 14; Sp. p. 3384; Gaz. vol. 178; p. 558.
Plane. E. A. Schade. No. 1,032,346; July 9; Gaz. vol. 180; p. 559.
Plane. J. Siegley. No. 1,032,956; July 16; Gaz. vol. 180; p. 807.
Plane. J. M. Burdick. No. 1,048,455; Dec. 24; Gaz. vol. 185; p. 1016.
Plane, Bench-. H. M. Wood. No. 1,042,741; Oct. 29; Gaz. vol. 183; p. 1169.
Plane, Beveling-. A. L. Savage. No. 1,021,631; Mar. 26; Sp. p. 5578; Gaz. vol. 176; p. 1002.
Plane cutter, Router-. T. B. Saner. No. 1,026,053; May 14; Sp. p. 2123; Gaz. vol. 178; p. 360.
Plane, Rotatable. R. D. and B. L. Wheeler. No 1,036,044; Aug. 20; Gaz. vol. 181; p. 623.
Plane, Router-. B. Aylor. No. 1,031,509; July 2; Gaz. vol. 180; p. 230.
Plane, Tongue-and-groove. A. A. Page. No. 1,042,139; Oct. 22; Gaz. vol. 183; p. 934.
Planer and other machine tool-holder. J. Carr. No. 1,045,512; Nov. 26; Gaz. vol. 184; p. 950.
Planer-beds or similar purposes, Mechanism for reciprocating. L. T. Houghton. No. 1,014,706; Jan. 16; Sp. p. 3594; Gaz. vol. 174; p. 616.
Planer feed attachment. P. J. Joecken. No. 1,043,436; Nov. 5; Gaz. vol. 184; p. 139.
Planer-head, Matching. F. L. Lane. No. 1,036,862; Aug 27; Gaz. vol. 181; p. 938.
Planer-knife-adjusting mechanism. W. Harper. No. 1,020,416; Mar. 19; Sp. p. 2982; Gaz. vol. 176; p. 541.
Planer, Metal-working. G. Langen and C. Meier. No. 1,029,875; June 18; Sp. p. 3951; Gaz. vol. 179; p. 688.
Planing and jointing machine attachment. J. R. England. No. 1,032,278; July 9; Gaz. vol. 180; p. 535.
Planing apparatus. W. F. Rice. No. 1,038,790; Sept. 17; Gaz. vol. 182; p. 615.
Planing-machine. A. Bates. No. 1,032,806; July 16; Gaz. vol. 180; p. 759.
Planing-machine. E. Eggers. No. 1,041,984; Oct. 22; Gaz. vol. 183; p. 883.
Planing machine, Metal-. A. M. Powell. No. 1,013,439; Jan. 2; Sp. p. 767; Gaz. vol. 174; p. 122.
Planing machines, Frame for wood-. E. Harrold. No. 1,035,187; Aug. 13; Gaz. vol. 181; p. 293.
Planimeter. F. R. Williams. No. 1,049,186; Dec. 31; Gaz. vol. 185; p. 1306.
Plant-blocker. G. P. A. Weisenborn. No. 1,025,223; May 7; Sp. p. 250; Gaz. vol. 178; p. 42.
Plant-growing apparatus. F. W. Taylor. No. 1,033,290; July 23; Gaz. vol. 180; p. 962.
Plant-juices, Determining the oxidase content of. H. H. Bunzel. No. 1,034,400; July 30; Gaz. vol. 180; p. 1366.
Plant-protector. W. H. Ragan. No. 1,025,073; Apr. 30; Sp. p. 7130; Gaz. vol. 177; p. 1252.
Plant-protector. I. Hill. No. 1,043,594; Nov. 5; Gaz. vol. 184; p. 195.

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Plant-protector. A. G. McAdie. No. 1,047,138; Dec. 10; Gaz. vol. 185; p. 503.
Plant protector and support. C. A. Black, Jr. No. 1,018,157; Feb. 20; Sp. p. 4287; Gaz. vol. 175; p. 736.
Plant-puller. R. L. Templeman. No. 1,045,216; Nov. 26; Gaz. vol. 184; p. 845.
Plant setting and fertilizing machine. F. and R. Bruhn. No. 1,026,492; May 14; Sp. p. 3091; Gaz. vol. 178; p. 510.
Plant-setting device. H. R. Glossop. No. 1,044,374; Nov. 12; Gaz. vol. 184; p. 494.
Plants, Apparatus for dissecting pulpy and fibrous. F. F. Strong. No. 1,013,235; Jan. 2; Sp. p. 320; Gaz. vol. 174; p. 51.
Plants of the Amorphophallus family, Forming an insoluble substance from the roots of. H. Lyncke. No. 1,035,615; Aug. 13; Gaz. vol. 181; p. 441.
Plants, Parasiticide for. G. Grether. No. 1,021,095; Mar. 26; Sp. p. 4431; Gaz. vol. 176; p. 820.
Planter. P. Offill and E. G. Plummer. No. 1,021,726; Mar. 26; Sp. p. 5752; Gaz. vol. 176; p. 1033.
Planter. W. Sobey. No. 1,022,891; Apr. 9; Sp. p. 2422; Gaz. vol. 177; p. 414.
Planter. R. R. Langley. No. 1,024,208; Apr. 23; Sp. p. 5259; Gaz. vol. 177; p. 922.
Planter. R. Allen. No. 1,030,759; June 25; Sp. p. 6099; Gaz. vol. 179; p. 1037.
Planter. C. B. Thomas. No. 1,031,299; July 2; Gaz. vol. 180; p. 159.
Planter. A. Henslee. No. 1,031,338; July 2; Gaz. vol. 180; p. 172.
Planter. R. H. Griffith. No. 1,032,668; July 16; Gaz. vol. 180; p. 713.
Planter. P. J. Filbin. No. 1,035,432; Aug. 13; Gaz. vol. 181; p. 379.
Planter. W. W. Lowe. No. 1,038,611; Sept. 17; Gaz. vol. 182; p. 552.
Planter. R. H. Griffith. No. 1,039,275; Sept. 24; Gaz. vol. 182; p. 798.
Planter. H. F. Spaulding. No. 1,042,617; Oct. 29; Gaz. vol. 183; p. 1126.
Planter and fertilizer-distributer, Combined. J. H. and L. F. Robinson. No. 1,019,189; Mar. 5; Sp. p. 404; Gaz. vol. 176; p. 64.
Planter and fertilizer-distributer, Combined. J. B. Harden. No. 1,033,168; July 23; Gaz. vol. 180; p. 919.
Planter and fertilizer-distributer, Combined. J. B. Merkel and W. M. Reynolds. No. 1,033,605; July 23; Gaz. vol. 180; p. 1065.
Planter and fertilizer-distributer, Combined. H. H. Hood. No. 1,048,074; Dec. 24; Gaz. vol. 185; p. 887.
Planter and fertilizer-distributer, Cotton-. J. W. Sharp. No. 1,025,022; Apr. 30; Sp. p. 7038; Gaz. vol. 177; p. 1236.
Planter attachment. H. Kill. No. 1,017,559; Feb. 13; Sp. p. 2914; Gaz. vol. 175; p. 493.
Planter attachment. P. F. Hansen. No. 1,028,353; June 4; Sp. p. 640; Gaz. vol. 179; p. 96.
Planter attachment. D. J. Mahoney. No. 1,035,025; Aug. 6; Gaz. vol. 181; p. 207.
Planter attachment, Corn-. A. B. Chance. No. 1,014,206; Jan. 9; Sp. p. 2464; Gaz. vol. 174; p. 414.
Planter attachment, Potato-. S. W. Bickel. No. 1,041,580; Oct. 15; Gaz. vol. 183; p. 707.
Planter attachment, Seed-. R. A. Shaver. No. 1,044,930; Nov. 19; Gaz. vol. 184; p. 717.
Planter, Automatic corn-. C. H. Hall. No. 1,018,613; Feb. 27; Sp. p. 5317; Gaz. vol. 175; p. 923.
Planter, Chainless corn-. T. F. Donham. No. 1,031,538; July 2; Gaz. vol. 180; p. 239.
Planter, Check-row corn-. W. E. Gilroy. No. 1,019,038; Mar. 5; Sp. p. 54; Gaz. vol. 176; p. 12.
Planter, Check-row corn-. J. L. Stensby. No. 1,031,741; July 9; Gaz. vol. 180; p. 352.
Planter, Check-row seed-. L. H. Beltzer. No. 1,041,000; Oct. 15; Gaz. vol. 183; p. 514.
Planter, Corn-. A. F. Keeter. No. 1,014,064; Jan. 9; Sp. p. 2183; Gaz. vol. 174; p. 365.
Planter, Corn-. F. R. Packham. No. 1,016,766; Feb. 6; Sp. p. 1193; Gaz. vol. 175; p. 183.
Planter, Corn-. F. P. Murphey. No. 1,018,980; Feb. 27; Sp. p. 6097; Gaz. vol. 175; p. 1049.
Planter, Corn-. F. P. Murphey. No. 1,020,363; Mar. 12; Sp. p. 2857; Gaz. vol. 176; p. 484.
Planter, Corn-. E. M. Heylman. No. 1,021,042; Mar. 26; Sp. p. 4328; Gaz. vol. 176; p. 803.
Planter, Corn-. S. K. Dennis. No. 1,024,768; Apr. 30; Sp. p. 6526; Gaz. vol. 177; p. 1149.
Planter, Corn-. L. E. Waterman. No. 1,025,769; May 7; Sp. p. 1453; Gaz. vol. 178; p. 228.
Planter, Corn-. A. H. Halstead. No. 1,028,110; June 4; Sp. p. 34; Gaz. vol. 179; p. 9.
Planter, Corn-. A. Grieves. No. 1,029,679; June 18; Sp. p. 3492; Gaz. vol. 179; p. 619.
Planter, Corn-. F. R. Packham. No. 1,029,711; June 18; Sp. p. 3578; Gaz. vol. 179; p. 631.
Planter, Corn-. S. H. Garst. No. 1,038,559; Sept. 17; Gaz. vol. 182; p. 534.
Planter, Corn-. W. W. Cavenee. No. 1,041,021; Oct. 15; Gaz. vol. 183; p. 521.
Planter, Corn-. G. R. Fleming. No. 1,042,334; Oct. 22; Gaz. vol. 183; p. 998.
Planter, Corn-. J. A. Anderson. No. 1,044,431; Nov. 12; Gaz. vol. 184; p. 513.
Planter, Corn-. M. H. Wilson. No. 1,045,087; Nov. 19; Gaz. vol. 184; p. 772.
Planter, Corn-. T. J. Ellison. No. 1,048,139; Dec. 24; Gaz. vol. 185; p. 911.
Planter, Corn and cotton. M. T. Hooper. No. 1,029,125; June 11; Sp. p. 2291; Gaz. vol. 179; p. 391.
Planter, Corn and cotton. H. F. Roy. No. 1,040,962; Oct. 8; Gaz. vol. 183; p. 467.
Planter, Cotton-seed. R. H. Prior. No. 1,044,082; Nov. 12; Gaz. vol. 184; p. 395.
Planter drive mechanism. E. M. Heylman. No. 1,040,676; Oct. 8; Gaz. vol. 183; p. 375.
Planter fertilizer attachment, Corn-. S. K. Dennis and A. Holsey. No. 1,041,976; Oct. 22; Gaz. vol. 183; p. 880.
Planter, Lister-. R. R. Langley. No. 1,024,345; Apr. 23; Sp. p. 5516; Gaz. vol. 177; p. 966.
Planter-marker. J. H. Miller. No. 1,028,375; June 4; Sp. p. 683; Gaz. vol. 179; p. 103.
Planter marker, Corn- L. J. Lindsay. No. 1,040,364; Oct. 8; Gaz. vol. 183; p. 263.
Planter markers, Device for operating corn-. J. Mulvehill. No. 1,018,581; Feb. 27; Sp. p. 5261; Gaz. vol. 175; p. 913.
Planter, Pea-. F. M. Proctor. No. 1,040,753; Oct. 8; Gaz. vol. 183; p. 399.
Planter, Peanut-. W. L. Harris. No. 1,041,275; Oct. 15; Gaz. vol. 183; p. 608.
Planter, Potato-. C. Hansen. No. 1,015,177; Jan. 16; Sp. p. 4602; Gaz. vol. 174; p. 776.
Planter, Potato-. W. A. Hall, Sr. No. 1,016,265; Feb. 6; Sp. p. 46; Gaz. vol. 175; p. 10.
Planter, Potato-. E. W. Kitchen. No. 1,034,017; July 30; Gaz. vol. 180; p. 1233.
Planter, Potato-. H. Spieker. No. 1,035,255; Aug. 13; Gaz. vol. 181; p. 316.
Planter, Potato-. E. R. Frederick. No. 1,041,613; Oct. 15; Gaz. vol. 183; p. 717.
Planter, Seed-. J. G. Oliver. No. 1,019,691; Mar. 5; Sp. p. 1489; Gaz. vol. 176; p. 231.
Planter, Seed-. J. E. Binns, Jr. No. 1,020,680; Mar. 19; Sp. p. 3563; Gaz. vol. 176; p. 627.
Planter, Seed-. J. Y. Atmar. No. 1,021,652; Mar. 26; Sp. p. 5612; Gaz. vol. 176; p. 1009.
Planter, Seed-. F. Lojacono. No. 1,032,617; July 16; Gaz. vol. 180; p. 693.
Planter, Seed-. J. R. Farthing. No. 1,035,781; Aug. 13; Gaz. vol. 181; p. 496.
Planter, Seed-. W. M. Adams. No. 1,035,935; Aug. 20; Gaz. vol. 181; p. 586.
Planter, Seed-. P. A. Custer. No. 1,039,105; Sept. 24; Gaz. vol. 182; p. 736.
Planter, Seed-. H. W. Robbins. No. 1,039,806; Oct. 1; Gaz. vol. 183; p. 46.
Planter, Seed-. W. F. Covington. No. 1,043,673; Nov. 5; Gaz. vol. 184; p. 223.
Planter, Seed-. C. Knopp. No. 1,046,199; Dec. 3; Gaz. vol. 185; p. 137.
Planter, Seed-. J. W. Connell. No. 1,049,053; Dec. 31; Gaz. vol. 185; p. 1263.
Planter, Tobacco-. A. Larose. No. 1,014,655; Jan. 16; Sp. p. 3490; Gaz. vol. 174; p. 598.
Planter, Wireless check-row corn-. S. L. Goodin. No. 1,030,236; June 18; Sp. p. 4712; Gaz. vol. 179; p. 811.
Planter, Wireless check-row corn-. J. Falos. No. 1,033,236; July 23; Gaz. vol. 180; p. 943.
Planters, Box for seed-. M. E. Hughes. No. 1,039,060; Sept. 17; Gaz. vol. 182; p. 703.
Planters, Clutch for corn-. L. M. Buchanan. No. 1,033,869; July 30; Gaz. vol. 180; p. 1178.
Planters, Driving mechanism for. E. M. Cole. No. 1,029,592; June 18; Sp. p. 3304; Gaz. vol. 179; p. 587.
Planters, Dropping device for potato-. J. Hist. No. 1,035,191; Aug. 13; Gaz. vol. 181; p. 295.
Planters, Dropping mechanism for potato-. J. Thompson. No. 1,033,213; July 23; Gaz. vol. 180; p. 935.
Planters, Land-marker for corn-. W. R. Cook. No. 1,046,559; Dec. 10; Gaz. vol. 185; p. 305.
Planters, Planting device for corn-. H. F. Ruel, E. St. Aubin, W. H. Dyer, and C. B. Sawyer. No. 1,030,331; June 25; Sp. p. 4958; Gaz. vol. 179; p. 884.
Planters, Quick-repair shoe for corn-. C. Flowers. No. 1,018,105; Feb. 20; Sp. p. 4173; Gaz. vol. 175; p. 718.
Planters, Timing mechanism for. I. L. Dempsey. No. 1,047,764; Dec. 17; Gaz. vol. 185; p. 756.
Planting device, Seedling-. H. J. Tompkins. No. 1,026,331; May 14; Sp. p. 2743; Gaz. vol. 178; p. 458.
Planting garlic, set-onions, and the like, Machine for. J. A. Fritsch. No. 1,027,119; May 21; Sp. p. 4536; Gaz. vol. 178; p. 763.
Planting-machine. C. E. Patric. No. 1,015,245; Jan. 16; Sp. p. 4738; Gaz. vol. 174; p. 799.
Planting-machine. R. J. and H. E. Altgelt. No. 1,024,662; Apr. 30; Sp. p. 6305; Gaz. vol. 177; p. 1111.
Planting-machine attachment. L. Wheeler. No. 1,023,346; Apr. 16; Sp. p. 3414; Gaz. vol. 177; p. 609.

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Planting machine, Potato-. F. Wieghard and H. Göbel, Jr. No. 1,028,411; June 4; Sp. p. 767; Gaz. vol. 179; p. 116.
Planting mechanism, Seed-. C. Jass. No. 1,023,894; Apr. 23; Sp. p. 4543; Gaz. vol. 177; p. 812.
Plaster-board. D. A. Cameron. No. 1,028,931; June 11; Sp. p. 1883; Gaz. vol. 179; p. 325.
Plaster-board. C. W. Utzman. No. 1,034,746; Aug. 6; Gaz. vol. 181; p. 115.
Plaster-board, Apparatus for making. H. S. Heichert. No. 1,023,934; Apr. 23; Sp. p. 4650; Gaz. vol. 177; p. 826.
Plaster-board machine. E. A. and G. H. Herzberg. No. 1,019,250; Mar. 5; Sp. p. 534; Gaz. vol. 176; p. 85.
Plaster-board machine. G. R. King. No. 1,033,251; July 23; Gaz. vol. 180; p. 948.
Plaster-board machine. G. R. King. No. 1,036,125; Aug. 20; Gaz. vol. 181; p. 652.
Plaster-board-machine cutting mechanism. L. M. Rader. No. 1,048,875; Dec. 31; Gaz. vol. 185; p. 1200.
Plaster-board, Machine for making. D. A. Cameron. No. 1,028,930; June 11; Sp. p. 1881; Gaz. vol. 179; p. 325.
Plaster-board, Making. G. R. King. No. 1,036,124; Aug. 20; Gaz. vol. 181; p. 652.
Plaster-board, Manufacturing. C. W. Utzman. No. 1,029,328; June 11; Sp. p. 2733; Gaz. vol. 179; p. 462.
Plaster-board partition-stud. W. S. Connell. No. 1,033,545; July 23; Gaz. vol. 180; p. 1044.
Plaster division-strip. G. S. Knapp. No. 1,016,074; Jan. 30; Sp. p. 6567; Gaz. vol. 174; p. 1140.
Plaster-pointing-up device. W. C. Moreland. No. 1,038,180; Sept. 10; Gaz. vol. 182; p. 368.
Plasterer's corner-strip. F. M. Congill. No. 1,019,951; Mar. 12; Sp. p. 2021; Gaz. vol. 176; p. 349.
Plasterer's darby. W. A. Whitman. No. 1,031,406; July 2; Gaz. vol. 180; p. 195.
Plastering-machine. G. R. Fox. No. 1,017,256; Feb. 13; Sp. p. 2288; Gaz. vol. 175; p. 389.
Plastering-machine. W. J. Ray. No. 1,040,253; Oct. 1; Gaz. vol. 183; p. 195.
Plastic-applying device. C. Swenson. No. 1,032,310; July 9; Gaz. vol. 180; p. 545.
Plastic articles, relievos, hollow bodies, and the like of pulp, Apparatus for manufacturing. K. W. Mauersberger. No. 1,041,129; Oct. 15; Gaz. vol. 183; p. 558.
Plastic-coatings-distributing joint. A. A. Smith. No. 1,033,283; July 23; Gaz. vol. 180; p. 959.
Plastic composition and preparing the same. J. W. Aylsworth. No. 1,046,420; Dec. 3; Gaz. vol. 185; p. 218.
Plastic material into receptacles, Apparatus for feeding. G. S. Baker. No. 1,035,299; Aug. 13; Gaz. vol. 181; p. 332.
Plastic phenolic condensation product. J. W. Aylsworth. No. 1,046,137; Dec. 3; Gaz. vol. 185; p. 117.
Plastic substances from milk, Producing. O. H. Nowak. No. 1,031,814; July 9; Gaz. vol. 180; p. 378.
Plate. L. J. C. Schwenn. No. 1,022,882; Apr. 9; Sp. p. 2404; Gaz. vol. 177; p. 411.
Plate-changing device, Automatic. E. W. Kelly. No. 1,015,027; Jan. 16; Sp. p. 4318; Gaz. vol. 174; p. 726.
Plate-holder. F. L. Schley. No. 1,022,879; Apr. 9; Sp. p. 2400; Gaz. vol. 177; p. 411.
Plate-lifter. W. V. Robinson. No. 1,033,350; July 23; Gaz. vol. 180; p. 981.
Plate-lifter. J. E. High. No. 1,035,088; Aug. 6; Gaz. vol. 181; p. 229.
Plate-lifter. H. H. Hall. No. 1,047,209; Dec. 17; Gaz. vol. 185; p. 559.
Platform-adjuster. J. R. Teller. No. 1,016,047; Jan. 30; Sp. p. 6497; Gaz. vol. 174; p. 1130.
Platform, Agitating-. J. A. Clauson. No. 1,020,344; Mar. 12; Sp. p. 2822; Gaz. vol. 176; p. 478.
Platform-hood, Cast. A. E. Ostrander. No. 1,023,031; Apr. 9; Sp. p. 2710; Gaz. vol. 177; p. 464.
Platform-operated machine. G. I. Leonard and W. C. Cutler. No. 1,026,325; May 14; Sp. p. 2725; Gaz. vol. 178; p. 456.
Platform, Roller-. G. B. Francis and B. H. Smith. No. 1,042,336; Oct. 22; Gaz. vol. 183; p. 999.
Platform, Safety-. C. D. Mason. No. 1,018,674; Feb. 27; Sp. p. 5442; Gaz. vol. 175; p. 944.
Plating device. E. A. Hirner. No. 1,023,311; Apr. 16; Sp. p. 3349; Gaz. vol. 177; p. 598.
Plating-machine. S. C. Catlin. No. 1,030,053; June 18; Sp. p. 4341; Gaz. vol. 179; p. 749.
Plating metals. M. W. Franklin. No. 1,037,887; Sept. 10; Gaz. vol. 182; p. 271.
Platting-box. E. L. Dearborn. No. 1,018,607; Feb. 27; Sp. p. 5308; Gaz. vol. 175; p. 921.
Play-ring. E. R. Rabel. No. 1,016,520; Feb. 6; Sp. p. 663; Gaz. vol. 175; p. 100.
Player, Automatic. J. A. Weser. No. 1,035,285; Aug. 13; Gaz. vol. 181; p. 327.
Player, Automatic keyboard-. C. W. Nyström. No. 1,045,318; Nov. 26; Gaz. vol. 184; p. 880.
Playing apparatus, Automatic. J. Schwertner. No. 1,034,520; Aug. 6; Gaz. vol. 181; p. 40.
Playing instrument, Automatic. J. Schwertner. No. 1,041,179; Oct. 15; Gaz. vol. 183; p. 575.
Pleasure apparatus, Submarine. C. Williamson. No. 1,016,808; Feb. 6; Sp. p. 1282; Gaz. vol. 175; p. 197.
Pliers. G. R. Mesnard. No. 1,021,372; Mar. 26; Sp. p. 5006; Gaz. vol. 176; p. 914.
Pliers, Adjustable packing-. C. A. Cummings. No. 1,019,605; Mar. 5; Sp. p. 1333; Gaz. vol. 176; p. 201.
Pliers and wrench, Combined adjustable. J. H. Collister. No. 1,027,693; May 28; Sp. p. 5697; Gaz. vol. 178; p. 992.
Pliers, Band-forming. F. F. Douds. No. 1,034,591; Aug. 6; Gaz. vol. 181; p. 63.
Pliers for clamping clips. J. G. Coutant. No. 1,042,404; Oct. 29; Gaz. vol. 183; p. 1049.
Pliers for stripping insulation from electric wires. F. P. Huston. No. 1,022,679; Apr. 9; Sp. p. 1962; Gaz. vol. 177; p. 341.
Pliers, Parallel-jaw. R. E. Gregg. No. 1,038,745; Sept. 17; Gaz. vol. 182; p. 599.
Pliers, Stapling-. M. Vogel. No. 1,043,883; Nov. 12; Gaz. vol. 184; p. 325.
Pliers, Wire-bending. R. F. Coleman. No. 1,048,809; Dec. 31; Gaz. vol. 185; p. 1179.
Plow. F. M. Lemarr. No. 1,013,667; Jan. 2; Sp. p. 1276; Gaz. vol. 174; p. 200.
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Plow. J. T. Chambers. No. 1,015,003; Jan. 16; Sp. p. 4277; Gaz. vol. 174; p. 718.
Plow. F. E. Davis. No. 1,015,301; Jan. 23; Sp. p. 4879; Gaz. vol. 174; p. 845.
Plow. F. L. Ezell. No. 1,015,672; Jan. 23; Sp. p. 5692; Gaz. vol. 174; p. 972.
Plow. S. H. Tinsman. No. 1,016,378; Feb. 6; Sp. p. 308; Gaz. vol. 175; p. 49.
Plow. J. C. Terrell. No. 1,016,796; Feb. 6; Sp. p. 1261; Gaz. vol. 175; p. 194.
Plow. J. S. Lupton. No. 1,017,105; Feb. 13; Sp. p. 1959; Gaz. vol. 175; p. 336.
Plow. J. H. Wright. No. 1,017,942; Feb. 20; Sp. p. 3808; Gaz. vol. 175; p. 661.
Plow. R. Payton. No. 1,018,075; Feb. 20; Sp. p. 4108; Gaz. vol. 175; p. 707.
Plow. R. Payton. No. 1,018,076; Feb. 20; Sp. p. 4110; Gaz. vol. 175; p. 708.
Plow. L. S. Lewis. No. 1,018,120; Feb. 20; Sp. p. 4205; Gaz. vol. 175; p. 723.
Plow. N. I. Milliken. No. 1,018,397; Feb. 20; Sp. p. 4779; Gaz. vol. 175; p. 818.
Plow. H. Williams. No. 1,018,465; Feb. 27; Sp. p. 4934; Gaz. vol. 175; p. 872.
Plow. W. H. Kline. No. 1,019,900; Mar. 12; Sp. p. 1917; Gaz. vol. 176; p. 333.
Plow. A. Vargas. No. 1,020,232; Mar. 12; Sp. p. 2622; Gaz. vol. 176; p. 444.
Plow. R. E. Whitcher. No. 1,020,240; Mar. 12; Sp. p. 2634; Gaz. vol. 176; p. 446.
Plow. F. B. Craven. No. 1,020,888; Mar. 19; Sp. p. 4004; Gaz. vol. 176; p. 698.
Plow. I. A. Weaver. No. 1,021,024; Mar. 26; Sp. p. 4287; Gaz. vol. 176; p. 796.
Plow. T. Van Egeren. No. 1,021,117; Mar. 26; Sp. p. 4471; Gaz. vol. 176; p. 826.
Plow. W. L. Paul. No. 1,022,256; Apr. 2; Sp. p. 1064; Gaz. vol. 177; p. 170.
Plow. W. H. Stone. No. 1,023,771; Apr. 16; Sp. p. 4222; Gaz. vol. 177; p. 742.
Plow. R. E. Sucholtz. No. 1,024,534; Apr. 30; Sp. p. 6001; Gaz. vol. 177; p. 1067.
Plow. C. A. Intrup. No. 1,025,066; Apr. 30; Sp. p. 7115; Gaz. vol. 177; p. 1250.
Plow. W. L. Paul. No. 1,025,829; May 7; Sp. p. 1576; Gaz. vol. 178; p. 250.
Plow. W. L. Paul. No. 1,025,830; May 7; Sp. p. 1578; Gaz. vol. 178; p. 250.
Plow. B. F. Frazer. No. 1,026,575; May 14; Sp. p. 3247; Gaz. vol. 178; p. 537.
Plow. G. A. Thode. No. 1,029,833; June 18; Sp. p. 3837; Gaz. vol. 179; p. 673.
Plow. P. Clancy. No. 1,030,282; June 25; Sp. p. 4837; Gaz. vol. 179; p. 865.
Plow. T. H. Bond. No. 1,031,414; July 2; Gaz. vol. 180; p. 199.
Plow. J. W. Southwick. No. 1,031,594; July 2; Gaz. vol. 180; p. 258.
Plow. G. W. Mixter. No. 1,032,020; July 9; Gaz. vol. 180; p. 447.
Plow. J. R. Rossetter. No. 1,032,298; July 9; Gaz. vol. 180; p. 542.
Plow. L. A. Holcombe. No. 1,032,546; July 16; Gaz. vol. 180; p. 543.
Plow. J. A. Huggins. No. 1,033,323; July 23; Gaz. vol. 180; p. 972.
Plow. C. A. Andersson. No. 1,033,368; July 23; Gaz. vol. 180; p. 987.
Plow. C. W. Hicks. No. 1,034,236; July 30; Gaz. vol. 180; p. 1308.
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Plow. W. H. Williams. No. 1,036,395; Aug. 20; Gaz. vol. 181; p. 748.
Plow. W. A. Prilliman. No. 1,036,903; Aug. 27; Gaz. vol. 181; p. 950.
Plow. W. L. Paul. No. 1,037,046; Aug. 27; Gaz. vol. 181; p. 999.
Plow. I. A. Weaver. No. 1,038,036; Sept. 10; Gaz. vol. 182; p. 322.
Plow. O. Georg. No. 1,038,870; Sept. 17; Gaz. vol. 182; p. 642.
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Plow. R. L. Kilpatrick. No. 1,039,754; Oct. 1; Gaz. vol. 183; p. 28.
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Plow. L. Stephens. No. 1,047,850; Dec. 17; Gaz. vol. 185; p. 786.
Plow. F. W. A. Techmer. No. 1,048,005; Dec. 24; Gaz. vol. 185; p. 864.
Plow. W. L. Paul. No. 1,048,730; Dec. 31; Gaz. vol. 185; p. 1150.
Plow, Adjustable reversible right and left hand. A. Servel. No. 1,044,824; Nov. 19; Gaz. vol. 184; p. 681.
Plow and beam therefor, Disk. A. N. McKellips. No. 1,045,421; Nov. 26; Gaz. vol. 184; p. 916.
Plow and chopper. C. P. Bermes. No. 1,030,156; June 18; Sp. p. 4529; Gaz. vol. 179; p. 782.
Plow and cultivator attachment. W. E. Hallaway. No. 1,020,282; Mar. 12; Sp. p. 2714; Gaz. vol. 176; p. 460.
Plow and harrow, Combined. B. H. G. Wilbur. No. 1,018,856; Feb. 27; Sp. p. 5817; Gaz. vol. 175; p. 1005.
Plow and scraper, Combined. F. E. Allen. No. 1,031,035; July 2; Gaz. vol. 180; p. 65.
Plow and seeding-machine, Combined. O. R. Schmeling No. 1,048,895; Dec. 31; Gaz. vol. 185; p. 1207.
Plow and the like attachment. T. M. Mason. No. 1,046,621; Dec. 10; Gaz. vol. 185; p. 326.
Plow attachment. V. T. Post. No. 1,023,678; Apr. 16; Sp. p. 4065; Gaz. vol. 177; p. 713.
Plow attachment. G. W. Elliott. No. 1,026,258; May 14; Sp. p. 2577; Gaz. vol. 178; p. 431.
Plow attachment. F. C. Solberg. No. 1,034,319; July 30; Gaz. vol. 180; p. 1336.
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Plow attachment. W. J. Steele. No. 1,040,049; Oct. 1; Gaz. vol. 183; p. 126.
Plow attachment. J. C. Bergh. No. 1,042,386; Oct. 29; Gaz. vol. 183; p. 1042.
Plow attachment. J. Kuehl. No. 1,046,807; Dec. 10; Gaz. vol. 185; p. 392.
Plow attachment, Subsoil-. J. A. Huggins. No. 1,033,245; July 23; Gaz. vol. 180; p. 946.
Plow-beam. C. P. Meek. No. 1,022,958; Apr. 9; Sp. p. 2581; Gaz. vol. 177; p. 438.
Plow-beam. J. M. Rivers. No. 1,031,588; July 2; Gaz. vol. 180; p. 255.
Plow, Corn-. A. W. Daniels. No. 1,027,998; May 28; Sp. p. 6387; Gaz. vol. 178; p. 1095.
Plow, Disk. O. M. Cox. No. 1,015,544; Jan. 23; Sp. p. 5408; Gaz. vol. 174; p. 927.
Plow, Disk. C. E. North. No. 1,033,727; July 23; Gaz. vol. 180; p. 1103.
Plow, Disk. A. Olson. No. 1,036,140; Aug. 20; Gaz. vol. 181; p. 659.
Plow, Disk. J. H. Davis and J. W. Morgan. No. 1,042,651; Oct. 29; Gaz. vol. 183; p. 1138.
Plow-disk. J. Van Vranken. No. 1,043,175; Nov. 5; Gaz. vol. 184; p. 47.
Plow, Ditching-. T. F. Bruening. No. 1,021,131; Mar. 26; Sp. p. 4509; Gaz. vol. 176; p. 831.
Plow, Engine gang-. W. L. Paul. No. 1,034,404; July 30; Gaz. vol. 180; p. 1367.
Plow, Folding. C. J. Bingham. No. 1,040,263; Oct. 8; Gaz. vol. 183; p. 227.
Plow-frame. B. Brown. No. 1,018,094; Feb. 20; Sp. p. 4154; Gaz. vol. 175; p. 714.
Plow, Gang-. N. Weller. No. 1,014,987; Jan. 16; Sp. p. 4236; Gaz. vol. 174; p. 713.
Plow, Gang-. A. B. Neugardt. No. 1,015,826; Jan. 30; Sp. p. 6016; Gaz. vol. 174; p. 1051.
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Plow, Gang-. C. H. Taylor. No. 1,036,745; Aug. 27; Gaz. vol. 181; p. 898.
Plow, Gang-. L. A. Hubert. No. 1,044,657; Nov. 19; Gaz. vol. 184; p. 623.
Plow, Gang-. J. Langlois. No. 1,046,395; Dec. 3; Gaz. vol. 185; p. 209.
Plow, Gang and motor. E. B. Sellard. No. 1,030,687; June 25; Sp. p. 5920; Gaz. vol. 179; p. 1012.
Plow, Gang and sulky riding-. I. C. Nelson. No. 1,025,712; May 7; Sp. p. 1333; Gaz. vol. 178; p. 208.
Plow, Gang or sulky. H. Sternberg and J. Furby. No. 1,029,033; June 11; Sp. p. 2095; Gaz. vol. 179; p. 361.
Plow gearing, Motor-driven-. E. B. Sellard. No. 1,030,686; June 25; Sp. p. 5917; Gaz. vol. 179; p. 1011.
Plow, Hand-. J. E. Gibbs. No. 1,031,996; July 9; Gaz. vol. 180; p. 439.
Plow-handle mount. A. M. White. No. 1,039,074; Sept. 17; Gaz. vol. 182; p. 707.
Plow harrow attachment. H. B. Wilson. No. 1,019,210; Mar. 5; Sp. p. 450; Gaz. vol. 176; p. 72.
Plow harrow attachment. A. S. Achenbach. No. 1,030,700; June 25; Sp. p. 5948; Gaz. vol. 179; p. 1016.
Plow-lifting device, Gang-. J. H. Algard and A. Bramer. No. 1,017,944; Feb. 20; Sp. p. 3810; Gaz. vol. 175; p. 661.
Plow-lifting mechanism, Gang-. T. J. Chandonnet. No. 1,013,740; Jan. 2; Sp. p. 1440; Gaz. vol. 174; p. 226.
Plow-moldboard. J. Buchanan. No. 1,035,529; Aug. 13; Gaz. vol. 181; p. 413.
Plow, Motor-. D. B. Hill. No. 1,019,252; Mar. 5; Sp. p. 537; Gaz. vol. 176; p. 85.
Plow, Motor-. J. W. Fuller. No. 1,029,601; June 18; Sp. p. 3319; Gaz. vol. 179; p. 590.
Plow, Motor-. L. S. Hackney. No. 1,031,062; July 2; Gaz. vol. 180; p. 76.
Plow, Motor-. O. Czaran. No. 1,032,118; July 9; Gaz. vol. 180; p. 479.
Plow, Motor-. A. E. Cook. No. 1,040,890; Oct. 8; Gaz. vol. 183; p. 443.
Plow, Motor-. G. E. Harrison. No. 1,047,215; Dec. 17; Gaz. vol. 185; p. 561.
Plow, Motor-. A. A. Waite. No. 1,047,344; Dec. 17; Gaz. vol. 185; p. 610.
Plow, Motor-. C. C. Delin. No. 1,047,507; Dec. 17; Gaz. vol. 185; p. 665.
Plow-mounting. I. A. Weaver. No. 1,043,277; Nov. 5; Gaz. vol. 184; p. 81.
Plow operated by steam or other motive power. H. McLaren. No. 1,018,252; Feb. 20; Sp. p. 4477; Gaz. vol. 175; p. 768.
Plow-point. J. Harrison. No. 1,048,962; Dec. 31; Gaz. vol. 185; p. 1230.
Plow-points, Automatic device for attaching and detaching. C. E. Logan and A. R. Barnett. No. 1,045,048; Nov. 19; Gaz. vol. 184; p. 759.
Plow, Reversible. W. S. Graham. No. 1,018,821; Feb. 27; Sp. p. 5763; Gaz. vol. 175; p. 995.
Plow, Reversible. P. Trimble. No. 1,027,451; May 28; Sp. p. 5202; Gaz. vol. 178; p. 912.
Plow, Reversible. W. J. Rodgers. No. 1,039,808; Oct. 1; Gaz. vol. 183; p. 47.
Plow, Rotary. W. E. Cooke. No. 1,013,587; Jan. 2; Sp. p. 1066; Gaz. vol. 174; p. 172.
Plow, Rotary. W. S. Posey. No. 1,025,764; May 7; Sp. p. 1447; Gaz. vol. 178; p. 227.
Plow, Rotary. J. Peterson. No. 1,030,489; June 25; Sp. p. 5306; Gaz. vol. 179; p. 940.
Plow, Rotary disk. C. Gronquist. No. 1,017,146; Feb. 13; Sp. p. 2039; Gaz. vol. 175; p. 351.
Plow row-gage attachment. R. J. Vibbert. No. 1,021,021; Mar. 26; Sp. p. 4281; Gaz. vol. 176; p. 795.
Plow, Seed-opening. W. S. Johnson. No. 1,044,532; Nov. 19; Gaz. vol. 184; p. 578.
Plow, Self-propelled. J. Van Vranken. No. 1,043,174; Nov. 5; Gaz. vol. 184; p. 46.
Plow stalk-cutting attachment. J. E. Osborne. No. 1,047,979; Dec. 24; Gaz. vol. 185; p. 856.
Plow steering mechanism, Motor-operated-gang-. J. M. King. No. 1,033,708; July 23; Gaz. vol. 180; p. 1097.
Plow-stock. W. A. Parker. No. 1,016,643; Feb. 6; Sp. p. 948; Gaz. vol. 175; p. 142.
Plow-stock. F. M. Johnson. No. 1,020,908; Mar. 19; Sp. p. 4036; Gaz. vol. 176; p. 705.
Plow subsoil attachment. A. H. Jennings. No. 1,018,061; Feb. 20; Sp. p. 4072; Gaz. vol. 175; p. 702.
Plow subsoiler attachment. J. F. Palmer. No. 1,021,793; Apr. 2; Sp. p. 76; Gaz. vol. 177; p. 16.
Plow, Sulky-. W. L. Paul. No. 1,018,775; Feb. 27; Sp. p. 5663; Gaz. vol. 175; p. 979.
Plow, Sulky-. A. M. Chase. No. 1,024,437; Apr. 23; Sp. p. 5720; Gaz. vol. 177; p. 996.
Plow, Traction-. S. J. Million. No. 1,029,816; June 18; Sp. p. 3802; Gaz. vol. 179; p. 667.
Plow, Vineyard-. J. Porteous. No. 1,029,765; June 18; Sp. p. 3682; Gaz. vol. 179; p. 649.
Plow, Vineyard-. T. H. Parvin. No. 1,033,728; July 23; Gaz. vol. 180; p. 1104.
Plow, Wheel sulky-. W. T. and W. C. Renfro. No. 1,035,233; Aug. 13; Gaz. vol. 181; p. 308.
Plow, Wheeled. L. E. Waterman. No. 1,025,768; May 7; Sp. p. 1452; Gaz. vol. 178; p. 228.

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Plow, Wheeled. A. C. Lindgren. No. 1,044,204; Nov. 12; Gaz. vol. 184; p. 436.
Plow, Wheeled gang-. N. Weiler. No. 1,035,126; Aug. 6; Gaz. vol. 181; p. 241.
Plows and cultivators, Adjustable weed-hook for. A. M. Donald. No. 1,015,756; Jan. 23; Sp. p. 5871; Gaz. vol. 174; p. 1001.
Plows, Draft device for wheeled gang-. N. Weiler. No. 1,042,733; Oct. 29; Gaz. vol. 183; p. 1166.
Plows, Gage device for. N. Weiler. No. 1,019,729; Mar. 5; Sp. p. 1563; Gaz. vol. 176; p. 243.
Plows, Open moldboard for A. P. Gubrud. No. 1,027,044; May 21; Sp. p. 4342; Gaz. vol. 178; p. 737.
Plows, Stalk-cutter attachment for sulky-. F. K. Huber. No. 1,041,288; Oct. 15; Gaz. vol. 183; p. 614.
Plowing apparatus. H. K. Bushong. No. 1,048,808; Dec. 31; Gaz. vol. 185; p. 1178.
Plowing-machine, Moldboard. W. G. Parmele. No. 1,029,456; June 11; Sp. p. 3022; Gaz. vol. 179; p. 506.
Plowing mechanism. C. L. Archambeau. No. 1,040,488; Oct. 8; Gaz. vol. 183; p. 304.
Plowshare attachment. P. H. Hickle and L. D. Spear. No. 1,029,443; June 11; Sp. p. 2993; Gaz. vol. 179; p. 501.
Plug. D. D. Gordon. No. 1,043,823; Nov. 12; Gaz. vol. 184; p. 304.
Plug, Attachment-. G. C. Knauff. No. 1,026,269; May 14; Sp. p. 2596; Gaz. vol. 178; p. 435.
Plug-coil. E. C. Wilcox and B. L. Lawton. No. 1,036,760; Aug. 27; Gaz. vol. 181; p. 903.
Plug, Connecting-. C. L. Hagen. No. 1,032,133; July 9; Gaz. vol. 180; p. 483.
Plug-connector. W. R. Greenway. No. 1,034,910; Aug. 6; Gaz. vol. 181; p. 170.
Plug or lamp receptacle. H. F. Krantz. No. 1,044,192; Nov. 12; Gaz. vol. 184; p. 432.
Plug or the like, Attachment-. J. C. Smith. No. 1,048,001; Dec. 24; Gaz. vol. 185; p. 863.
Plug, Separable attachment-. H. Hubbell. No. 1,021,101; Mar. 26; Sp. p. 4439; Gaz. vol. 176; p. 822.
Plug, Separable attachment-. R. B. Benjamin. No. 1,022,815; Apr. 9; Sp. p. 2278; Gaz. vol. 177; p. 390.
Plug-socket. J. W. Phelps. No. 1,028,957; June 11; Sp. p. 1928; Gaz. vol. 179; p. 333.
Plug-switch. J. J. Lyng. No. 1,039,156; Sept. 24; Gaz. vol. 182; p. 753.
Plug-switch. C. Horn. No. 1,042,228; Oct. 22; Gaz. vol. 183; p. 964.
Plug, Wire-terminal. C. E. Mowrer. No. 1,049,132; Dec. 31; Gaz. vol. 185; p. 1289.
Plugs, Locking and controlling means for turning. F. E. Youngs. No. 1,025,105; Apr. 30; Sp. p. 7213; Gaz. vol. 177; p. 1264.
Plugs, Protective covering for attachment-. M. R. Rodrigues. No. 1,040,762; Oct. 8; Gaz. vol. 183; p. 403.
Plumb-bob carrier. W. A. Laird, Jr. No. 1,022,791; Apr. 9; Sp. p. 2227; Gaz. vol. 177; p. 382.
Plumb-bob. J. Paul. No. 1,025,828; May 7; Sp. p. 1575; Gaz. vol. 178; p. 249.
Plumb-bob. E. P. Garner. No. 1,026,669; May 21; Sp. p. 3473; Gaz. vol. 178; p. 606.
Plumb-bob. A. E. Burns. No. 1,043,295; Nov. 5; Gaz. vol. 184; p. 88.
Plumbing and leveling device. P. M. Olsen. No. 1,040,744; Oct. 8; Gaz. vol. 183; p. 397.
Plumbing, Device for preventing the freezing of house-. L. Paer. No. 1,043,137; Nov. 5; Gaz. vol. 184; p. 31.
Plumbing-fixture. P. J. Madden. No. 1,022,146; Apr. 2; Sp. p. 839; Gaz. vol. 177; p. 133.
Plumbing-fixture. P. J. Madden. No. 1,022,147; Apr. 2; Sp. p. 841; Gaz. vol. 177; p. 133.
Plumbing-fixture. P. J. Madden. No. 1,035,407; Aug. 13; Gaz. vol. 181; p. 388.
Plumbing-fixtures, Floor connection for sanitary. B. Oakes. No. 1,042,465; Oct. 29; Gaz. vol. 183; p. 1072.
Plume, Reconstructed. A. Eisemann. No. 1,032,364; July 9; Gaz. vol. 180; p. 565.
Plume-stems, Machine for splitting. E. W. Moch. No. 1,032,417; July 16; Gaz. vol. 180; p. 627.
Plume-stems, Machine for splitting. E. W. Moch. No. 1,032,418; July 16; Gaz. vol. 180; p. 627.
Plume-stems, Machine for trimming. E. W. Moch. No. 1,032,416; July 16; Gaz. vol. 180; p. 626.
Plumes for headwear and other purposes, Supporter for. F. A. Shafer. No. 1,024,105; Apr. 23; Sp. p. 5013; Gaz. vol. 177; p. 885.
Plunger. A. Ohmstede. No. 1,018,517; Feb. 27; Sp. p. 5108; Gaz. vol. 175; p. 890.
Plunger. W. S. Locke. No. 1,026,873; May 21; Sp. p. 3923; Gaz. vol. 178; p. 676.
Plunger device. G. H. Rowe. No. 1,015,084; Jan. 16; Sp. p. 4430; Gaz. vol. 174; p. 745.
Plunger-elevator, Hydropneumatic. L. Atwood. No. 1,032,040; July 9; Gaz. vol. 180; p. 454.
Plunger-switch. E. S. McLarn. No. 1,038,776; Sept. 17; Gaz. vol. 182; p. 610.
Pneumatic actuating unit. N. Magnuson. No. 1,041,125; Oct. 15; Gaz. vol. 183; p. 557.
Pneumatic apparatus. J. Schwertner. (Reissue.) No. 13,384; Mar. 12; Sp. p. 2928; Gaz. vol. 176; p. 496.
Pneumatic carpet-sweeper. T. Lyons. No. 1,017,779; Feb. 20; Sp. p. 3427; Gaz. vol. 175; p. 603.
Pneumatic carrier. R. Meier. No. 1,047,547; Dec. 17; Gaz. vol. 185; p. 679.
Pneumatic cleaner. T. O. Osterholm. No. 1,022,499; Apr. 9; Sp. p. 1574; Gaz. vol. 177; p. 281.
Pneumatic cleaner. J. C. Tauber. No. 1,024,041; Apr. 23; Sp. p. 4868; Gaz. vol. 177; p. 863.
Pneumatic cleaner. C. E. Duryea. No. 1,034,597; Aug 6; Gaz. vol. 181; p. 65.
Pneumatic cleaner. C. B. Gilmore. No. 1,035,341; Aug. 13; Gaz. vol. 181; p. 348.
Pneumatic cleaner. E. M. Barnes. No. 1,047,487; Dec. 17; Gaz. vol. 185; p. 658.
Pneumatic cleaning apparatus. E. H. Lichtenberg. No. 1,034,260; July 30; Gaz. vol. 180; p. 1316.
Pneumatic cleaning apparatus, Vacuum-controller for. J. S. Thurman and J. A. Dunlap. No. 1,014,729; Jan. 16; Sp. p. 3650; Gaz. vol. 174; p. 624.
Pneumatic cleaning-machine. M. S. Wright. No. 1,015,372; Jan. 23; Sp. p. 5042; Gaz. vol. 174; p. 870.
Pneumatic cleaning systems, Valve connection for. C. R. Thurman. No. 1,036,378; Aug. 20; Gaz. vol. 181; p. 742.
Pneumatic cleansing apparatus. A. E. Moorhead. No. 1,023,090; Apr. 9; Sp. p. 2841; Gaz. vol. 177; p. 484.
Pneumatic cleansing apparatus. A. E. Moorhead. No. 1,043,025; Oct. 29; Gaz. vol. 183; p. 1266.
Pneumatic cleansing implement for removing dust. A. E. Moorhead. No. 1,043,024; Oct. 29; Gaz. vol. 183; p. 1266.
Pneumatic cushion. J. Hofmann. No. 1,039,537; Sept. 24; Gaz. vol. 182; p. 889.
Pneumatic cushion for vehicles. A. J. Oling. No. 1,023,868; Apr. 23; Sp. p. 4483; Gaz. vol. 177; p. 803.
Pneumatic cushion for vehicles. F. I. Baker. No. 1,026,893; May 21; Sp. p. 3978; Gaz. vol. 178; p. 684.
Pneumatic cushion for vehicles. J. O. Davis. No. 1,043,677; Nov. 5; Gaz. vol. 184; p. 224.
Pneumatic cushion-spring for wheeled vehicles. J. W. Sutton. No. 1,048,371; Dec. 24; Gaz. vol. 185; p. 988.
Pneumatic-cushioned wheel. I. H. Babcock. No. 1,040,114; Oct. 1; Gaz. vol. 183; p. 148.
Pneumatic-despatch apparatus. T. Bemis. No. 1,048,931; Dec. 31; Gaz. vol. 185; p. 1220.
Pneumatic-despatch system. F. J. H. Hazard. No. 1,025,803; May 7; Sp. p. 1521; Gaz. vol. 178; p. 240.
Pneumatic-despatch-tube apparatus. E. A. Fordyce. No. 1,013,148; Jan. 2; Sp. p. 113; Gaz. vol. 174; p. 21.
Pneumatic-despatch-tube apparatus. C. F. Stoddard. No. 1,031,742; July 9; Gaz. vol. 180; p. 353.
Pneumatic-despatch-tube apparatus. J. G. Maclaren. No. 1,031,800; July 9; Gaz. vol. 180; p. 373.
Pneumatic-despatch-tube apparatus. A. W. Pearsall. No. 1,031,816; July 9; Gaz. vol. 180; p. 378.
Pneumatic-despatch-tube apparatus. C. S. Jennings. No. 1,032,141; July 9; Gaz. vol. 180; p. 486.
Pneumatic-despatch-tube apparatus. J. G. Maclaren. No. 1,032,150; July 9; Gaz. vol. 180; p. 489.
Pneumatic-despatch-tube apparatus. A. W. Pearsall. No. 1,032,155; July 9; Gaz. vol. 180; p. 491.
Pneumatic-despatch-tube apparatus. E. A. Fordyce. No. 1,040,302; Oct. 8; Gaz. vol. 183; p. 242.
Pneumatic-despatch-tube apparatus. E. A. Fordyce. No. 1,044,876; Nov. 19; Gaz. vol. 184; p. 699.
Pneumatic-despatch-tube apparatus. E. A. Fordyce. No. 1,044,877; Nov. 19; Gaz. vol. 184; p. 699.
Pneumatic-despatch-tube apparatus. E. A. Fordyce. No. 1,044,878; Nov. 19; Gaz. vol. 184; p. 700.
Pneumatic-despatch-tube-apparatus carrier. L. G. Bartlett. No. 1,032,178; July 9; Gaz. vol. 180; p. 500.
Pneumatic-despatch-tube apparatus, Sending and delivery station for. K. A. Gutknecht. No. 1,016,264; Feb. 6; Sp. p. 44; Gaz. vol. 175; p. 9.
Pneumatic-despatch-tube-apparatus terminal. J. T. Cowley. No. 1,031,774; July 9; Gaz. vol. 180; p. 364.
Pneumatic-despatch-tube apparatus, Terminal for. A. W. Pearsall. No. 1,031,866; July 9; Gaz. vol. 180; p. 396.
Pneumatic drill or like machine. G. H. Hayes. (Reissue.) No. 13,410; Apr. 30; Sp. p. 7234; Gaz. vol. 177; p. 1268.
Pneumatic elevator. G. and J. Bernert. No. 1,033,865; July 30; Gaz. vol. 180; p. 1177.
Pneumatic engine or tool. J. D. MacDonald. No. 1,043,529; Nov. 5; Gaz. vol. 184; p. 174.
Pneumatic jack. L. J. Dittmar. No. 1,048,301; Dec. 24; Gaz. vol. 185; p. 963.
Pneumatic motor. V. J. Johnson. No. 1,037,775; Sept. 3; Gaz. vol. 182; p. 200.
Pneumatic percussive apparatus. H. C. Behr. No. 1,026,555; May 14; Sp. p. 3208; Gaz. vol. 178; p. 530.
Pneumatic player mechanism. F. W. Draper. No. 1,016,917; Feb. 6; Sp. p. 1509; Gaz. vol. 175; p. 234.
Pneumatic-player tracker-bar. W. R. Crippen. No. 1,025,127; May 7; Sp. p. 34; Gaz. vol. 178; p. 7.
Pneumatic roll. C. G. Shoop. No. 1,045,201; Nov. 26; Gaz. vol. 184; p. 840.
Pneumatic spring. W. H. Staats. No. 1,016,651; Feb. 6; Sp. p. 959; Gaz. vol. 175; p. 145.

Alphabetical list of inventions—Continued.

Pneumatic spring. T. J. Mullen and T. F. Brennan. No. 1,039,578; Sept. 24; Gaz. vol. 182; p. 904.
Pneumatic-tube apparatus, Carrier for. F. R. Taisey. No. 1,031,826; July 9; Gaz. vol. 180; p. 382.
Pneumatic wheel. J. W. Livingston. No. 1,013,554; Jan. 2; Sp. p. 1010; Gaz. vol. 174; p. 162.
Pneumatic wheel. A. C. Schroeder. No. 1,019,536; Mar. 5; Sp. p. 1210; Gaz. vol. 176; p. 179.
Pneumatic wheel. W. W. Guest. No. 1,023,516; Apr. 16; Sp. p. 3755; Gaz. vol. 177; p. 663.
Pneumatic wheel. A. H. Smith. No. 1,034,317; July 30; Gaz. vol. 180; p. 1335.
Pneumatic wheel. C. D. Rice. No. 1,035,424; Aug. 13; Gaz. vol. 181; p. 377.
Pneumatic wheel. G. H. Treadgold. No. 1,038,687; Sept. 17; Gaz. vol. 182; p. 579.
Pneumatic wheel. A. and J. Burfoot. No. 1,047,495; Dec. 17; Gaz. vol. 185; p. 661.
Pneumatic wheel. J. M. and R. R. Dennis. No. 1,047,620; Dec. 17; Gaz. vol. 185; p. 705.
Pneumatic wheel. J. M. and R. R. Dennis. No. 1,047,621; Dec. 17; Gaz. vol. 185; p. 706.
Pocket. J. M. Kaiser. No. 1,014,307; Jan. 9; Sp. p. 2697; Gaz. vol. 174; p. 450.
Pocket. A. Fantl. No. 1,023,632; Apr. 16; Sp. p. 3994; Gaz. vol. 177; p. 701.
Pocket attachment. R. Rourke. No. 1,018,929; Feb. 27; Sp. p. 5974; Gaz. vol. 175; p. 1029.
Pocket-book. W. H. Lee. No. 1,017,006; Feb. 13; Sp. p. 1725; Gaz. vol. 175; p. 301.
Pocket-book and powder-puff. A. Widrich. No. 1,049,184; Dec. 31; Gaz. vol. 185; p. 1305.
Pocket-book, Combination. H. M. Walsh. No. 1,014,104; Jan. 9; Sp. p. 2272; Gaz. vol. 174; p. 378.
Pocket-book-securing device. M. Olson. No. 1,041,664; Oct. 15; Gaz. vol. 183; p. 736.
Pocket-books and the like, Holder for. J. Babst. No. 1,013,580; Jan. 2; Sp. p. 1054; Gaz. vol. 174; p. 170.
Pocket-case. F. W. Briggs. No. 1,024,674; Apr. 30; Sp. p. 6330; Gaz. vol. 177; p. 1116.
Pocket-clip. M. Marcucci. No. 1,016,166; Jan. 30; Sp. p. 6727; Gaz. vol. 174; p. 1169.
Pocket device, Safety. G. W. Carver. No. 1,031,912; July 9; Gaz. vol. 180; p. 411.
Pocket, Foot-. J. F. Harris. No. 1,022,235; Apr. 2; Sp. p. 1029; Gaz. vol. 177; p. 164.
Pocket for garments, Rule-. S. Kirshen. No. 1,036,859; Aug. 27; Gaz. vol. 181; p. 937.
Pocket, Garment-. V. Finsten. No. 1,013,757; Jan. 2; Sp. p. 1474; Gaz. vol. 174; p. 233.
Pocket, Garment-. F. Kaschewski. No. 1,018,912; Feb. 27; Sp. p. 5942; Gaz. vol. 175; p. 1024.
Pocket, Garment-. T. J. Cahill. No. 1,045,674; Nov. 26; Gaz. vol. 184; p. 1009.
Pocket guard and alarm. J. T. Cowles. No. 1,016,672; Feb. 6; Sp. p. 1007; Gaz. vol. 175; p. 152.
Pocket-knife. W. J. Minter. No. 1,022,494; Apr. 9; Sp. p. 1559; Gaz. vol. 177; p. 280.
Pocket-knife. J. V. Weckbaugh. No. 1,029,564; June 11; Sp. p. 3238; Gaz. vol. 179; p. 543.
Pocket-knife. E. Doles. No. 1,030,058; June 18; Sp. p. 4347; Gaz. vol. 179; p. 750.
Pocket-knife. G. S. Hastings. No. 1,035,786; Aug. 13; Gaz. vol. 181; p. 498.
Pocket-knife. O. Kallin. No. 1,043,438; Nov. 5; Gaz. vol. 184; p. 140.
Pocket-knife and the like. C. A. Sjoberg. No. 1,024,749; Apr. 30; Sp. p. 6490; Gaz. vol. 177; p. 1142.
Pocket-knife, Take-down. C. H. White. No. 1,014,927; Jan. 16; Sp. p. 4110; Gaz. vol. 174; p. 692.
Pocket-knife, Take-down. C. H. White. No. 1,026,065; May 14; Sp. p. 2161; Gaz. vol. 178; p. 365.
Pocket lock, Garment-. E. E. Squire. No. 1,016,650; Feb. 6; Sp. p. 957; Gaz. vol. 175; p. 144.
Pocket safety device. H. O. Brion. No. 1,042,314; Oct. 22; Gaz. vol. 183; p. 991.
Pocket, Safety side. H. T. Waerness. No. 1,040,819; Oct. 8; Gaz. vol. 183; p. 421.
Pocket, Safety watch-. H. A. Woolslare. No. 1,021,033; Mar. 26; Sp. p. 4305; Gaz. vol. 176; p. 800.
Pocket. Stake-. L. D. Gregg. No. 1,036,221; Aug. 20; Gaz. vol. 181; p. 689.
Pocket, Trousers-. I. Abrahams. No. 1,036,054; Aug. 20; Gaz. vol. 181; p. 626.
Pocket, Watch-. E. R. Pennebaker. No. 1,030,488; June 25; Sp. p. 5305; Gaz. vol. 179; p. 940.
Poison-distributing apparatus. L. V. Rosser. No. 1,021,707; Mar. 26; Sp. p. 5712; Gaz. vol. 176; p. 1027.
Poison holder, Rodent-. W. Larkin. No. 1,048,977; Dec. 31; Gaz. vol. 185; p. 1235.
Poison-indicator. W. B. Eastburn. No. 1,036,588; Aug. 27; Gaz. vol. 181; p. 847.
Poison-receptacle. F. P. Rand. No. 1,013,514; Jan. 2; Sp. p. 923; Gaz. vol. 174; p. 148.
Poke. J. Tauscher. No. 1,041,372; Oct. 15; Gaz. vol. 183; p. 640.
Poke, Animal-. A. Haven. No. 1,031,551; July 2; Gaz. vol. 180; p. 244.
Poke, Animal-. D. M. Inglish. No. 1,042,116; Oct. 22; Gaz. vol. 183; p. 926.
Poke, Animal-. J. F. Cannon. No. 1,048,653; Dec. 31; Gaz. vol. 185; p. 1123.
Poke, Cattle-. J. Mohrherr. No. 1,034,816; Aug. 6; Gaz. vol. 181; p. 140.
Poke, Cow-. N. P. Swann. No. 1,042,499; Oct. 29; Gaz. vol. 183; p. 1084.
Pole. O. F. Reynolds. No. 1,024,361; Apr. 23; Sp. p. 5546; Gaz. vol. 177; p. 972.
Pole and post hole digger. R. A. Peters. No. 1,032,936; July 16; Gaz. vol. 180; p. 801.
Pole and shade bracket, Combined. C. Whigham. No. 1,020,239; Mar. 12; Sp. p. 2632; Gaz. vol. 176; p. 446.
Pole and shafts. H. A. Hunter. No. 1,022,555; Apr. 9; Sp. p. 1693; Gaz. vol. 177; p. 299.
Pole-cap for vehicles. A. Moren. No. 1,043,057; Oct. 29; Gaz. vol. 183; p. 1278.
Pole-changer. R. H. Manson. No. 1,023,261; Apr. 16; Sp. p. 3250; Gaz. vol. 177; p. 581.
Pole-changer. E. M. Tormin. No. 1,024,463; Apr. 23; Sp. p. 5791; Gaz. vol. 177; p. 1006.
Pole-changer. C. J. Erickson. No. 1,036,817; Aug. 27; Gaz. vol. 181; p. 922.
Pole-changer. W. W. Dean. No. 1,043,906; Nov. 12; Gaz. vol. 184; p. 332.
Pole-changer. C. H. Roth. No. 1,048,588; Dec. 31; Gaz. vol. 185; p. 1099.
Pole cross-arm. C. G. Ette. No. 1,027,709; May 28; Sp. p. 5727; Gaz. vol. 178; p. 998.
Pole cross-arm. C. G. Ette. No. 1,027,710; May 28; Sp. p. 5729; Gaz. vol. 178; p. 998.
Pole cross-arm. C. G. Ette. No. 1,027,711; May 28; Sp. p. 5730; Gaz. vol. 178; p. 998.
Pole-erecting apparatus. J. M. Humiston. No. 1,014,477; Jan. 9; Sp. p. 3058; Gaz. vol. 174; p. 508.
Pole or shaft, Vehicle. J. C. Scoggins. No. 1,030,248; June 18; Sp. p. 4733; Gaz. vol. 179; p. 815.
Pole-reversing timer or distributer. E. S. Lincoln. No. 1,019,061; Mar. 5; Sp. p. 103; Gaz. vol. 176; p. 20.
Pole, Sectional reinforced-concrete. J. A. Griffin. No. 1,033,887; July 30; Gaz. vol. 180; p. 1185.
Pole-strap. W. Dawson. No. 1,048,501; Dec. 31; Gaz. vol. 185; p. 1070.
Poles, Metallic cross-arm for. C. G. Ette. No. 1,027,708; May 28; Sp. p. 5725; Gaz. vol. 178; p. 998.
Poles or the like, Machine for making spiral latticed. B. Haskell. No. 1,013,769; Jan. 2; Sp. p. 1501; Gaz. vol. 174; p. 237.
Poles or the like, Making spiral latticed. B. Haskell. No. 1,013,489; Jan. 2; Sp. p. 877; Gaz. vol. 174; p. 140.
Poles, &c., Preserving. A. Kolossváry, S. Haltenberger, and E. Berdenich. No. 1,018,624; Feb. 27; Sp. p. 5337; Gaz. vol. 175; p. 926.
Policeman's club and light, Combined. R. L. Litsey. No. 1,018,358; Feb. 20; Sp. p. 4671; Gaz. vol. 175; p. 803.
Polisher or abrader. W. H. Van Sickel. No. 1,017,237; Feb. 13; Sp. p. 2249; Gaz. vol. 175; p. 382.
Polishing. P. Fireman. No. 1,025,945; May 7; Sp. p. 1873; Gaz. vol. 178; p. 288.
Polishing-cloth. W. Dagnall. No. 1,025,382; May 7; Sp. p. 619; Gaz. vol. 178; p. 96.
Polishing-cloth. H. S. Webster. No. 1,038,694; Sept. 17; Gaz. vol. 182; p. 581.
Polishing compound. E. Kelly. No. 1,015,688; Jan. 23; Sp. p. 5745; Gaz. vol. 174; p. 978.
Polishing compound. P. Fireman. No. 1,025,946; May 7; Sp. p. 1875; Gaz. vol. 178; p. 288.
Polishing facets and surfaces, Machine for. E. Offenbacher. No. 1,013,559; Jan. 2; Sp. p. 1019; Gaz. vol. 174; p. 163.
Polishing-head. G. A. Undeen. No. 1,035,758; Aug. 13; Gaz. vol. 181; p. 488.
Polishing-hood. L. E. Sadler. No. 1,047,571; Dec. 17; Gaz. vol. 185; p. 688.
Polishing-machine. H. Robinson. No. 1,015,249; Jan. 16; Sp. p. 4745; Gaz. vol. 174; p. 800.
Polishing-machine. E. E. Barnes. No. 1,016,198; Jan. 30; Sp. p. 6783; Gaz. vol. 174; p. 1179.
Polishing-machine. O. L. Dosch. No. 1,020,946; Mar. 19; Sp. p. 4115; Gaz. vol. 176; p. 718.
Polishing-machine. W. La Hodny. No. 1,026,321; May 14; Sp. p. 2711; Gaz. vol. 178; p. 454.
Polishing-machine. H. Robinson. No. 1,036,719; Aug. 27; Gaz. vol. 181; p. 889.
Polishing-machine. C. W. Beam. No. 1,037,851; Sept. 10; Gaz. vol. 182; p. 257.
Polishing-machine. C. W. Beam. No. 1,037,852; Sept. 10; Gaz. vol. 182; p. 257.
Polishing-machine. J. F. Maroni. No. 1,038,404; Sept. 10; Gaz. vol. 182; p. 445.
Polishing-machine. T. H. Schesch. No. 1,043,973; Nov. 12; Gaz. vol. 184; p. 358.
Polishing-machine. O. L. Dosch. No. 1,048,137; Dec. 24; Gaz. vol. 185; p. 910.
Polishing or dressing machine. W. D. Couper. No. 1,026,076; May 14; Sp. p. 2185; Gaz. vol. 178; p. 369.
Polishing or grinding wheel guard. F. W. Kohlmyer. No. 1,027,548; May 28; Sp. p. 5394; Gaz. vol. 178; p. 945.
Polo-club head. R. D. Hayes. No. 1,026,581; May 14; Sp. p. 3260; Gaz. vol. 178; p. 539.
Polycycle propelling and brake mechanism. G. C. Worthington. No. 1,041,936; Oct. 22; Gaz. vol. 183; p. 868.

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Pompon. D. Metzger. No. 1,014,408; Jan. 9; Sp. p. 2937; Gaz. vol. 174; p. 487.
Pool and billiard cue. B. T. Weidman. No. 1,042,299; Oct. 22; Gaz. vol. 183; p. 986.
Pool-ball rack. D. Girson. No. 1,034,705; Aug. 6; Gaz. vol. 181; p. 101.
Pool-ball-rack attachment. E. P. Sommers. No. 1,024,155; Apr. 23; Sp. p. 5135; Gaz. vol. 177; p. 903.
Pool-register. E. F. Manchester. No. 1,030,786; June 25; Sp. p. 6195; Gaz. vol. 179; p. 1047.
Pool-table. M. H. Olsen. No. 1,046,845; Dec. 10; Gaz. vol. 185; p. 403.
Pool-table ball-collecting device. M. H. Olsen. No. 1,046,844; Dec. 10; Gaz. vol. 185; p. 403.
Pop-cooler. J. H. Garey. No. 1,021,670; Mar. 26; Sp. p. 5639; Gaz. vol. 176; p. 1014.
Popcorn-popper. E. W. Pendergraft. No. 1,025,716; May 7; Sp. p. 1344; Gaz. vol. 178; p. 209.
Porcelain-drilling machine. J. Riddell. No. 1,022,874; Apr. 9; Sp. p. 2392; Gaz. vol. 177; p. 409.
Porch flower-bracket G. L. Roppeneker and A. L. Scott. No. 1,017,594; Feb. 13; Sp. p. 2979; Gaz. vol. 175; p. 503.
Porous bodies, Manufacturing. B. Schwerin. No. 1,027,004; May 21; Sp. p. 4241; Gaz. vol. 178; p. 723.
Porous granular hygroscopic material. E. N. Trump and J. D. Pennock. No. 1,026,724; May 21; Sp. p. 3598; Gaz. vol. 178; p. 625.
Portable elevator. C. W. and J. E. Camp. No. 1,014,448; Jan. 9; Sp. p. 3011; Gaz. vol. 174; p. 499.
Portable elevator. J. W. Ashworth. No. 1,048,124; Dec. 24; Gaz. vol. 185; p. 906.
Portable furnace. M. Davis. No. 1,025,515; May 7; Sp. p. 907; Gaz. vol. 178; p. 142.
Portable furnace. M. Davis. No. 1,025,563; May 7; Sp. p. 1029; Gaz. vol. 178; p. 159.
Portable rack. J. J. Bailey. No. 1,039,080; Sept. 24; Gaz. vol. 182; p. 728.
Portable stand. G. L. McDonald. No. 1,014,889; Jan. 16; Sp. p. 4020; Gaz. vol. 174; p. 679.
Porte-polisher. H. G. Wiggins. No. 1,039,235; Sept. 24; Gaz. vol. 182; p. 783.
Portfolio, Letter-carrier's. F. W. Wilson. No. 1,037,388; Sept. 3; Gaz. vol. 182; p. 71.
Position-locating instrument. D. W. Adams. No. 1,018,150; Feb. 20; Sp. p. 4274; Gaz. vol. 175; p. 734.
Post: *See* Binder-post; Binding-post; Bumping-post; Concrete fence-post; Concrete lamp-post; Corner-post; Drilling-machine post; Fence-post; Fence, telegraph, and other post; Fuse-block contact-post; Lamp-post; Light-post; Mine-post; Rubbing-post; Seat-post; Sign-post.
Post. A. W. Ford. No. 1,018,754; Feb. 27; Sp. p. 5619; Gaz. vol. 175; p. 971.
Post. D. W. McProud. No. 1,033,916; July 30; Gaz. vol. 180; p. 1195.
Post. M. P. Maxwell. No. 1,042,362; Oct. 22; Gaz. vol. 183; p. 1006.
Post. W. T. Hicks. No. 1,045,026; Nov. 19; Gaz. vol. 184; p. 751.
Post adjusting support, End and corner. W. A. Fournie. No. 1,018,894; Feb. 27; Sp. p. 5904; Gaz. vol. 175; p. 1018.
Post-anchor. C. Bowen. No. 1,015,611; Jan. 23; Sp. p. 5558; Gaz. vol. 174; p. 952.
Post-cap. S. W. Rothrock. No. 1,037,996; Sept. 10; Gaz. vol. 182; p. 309.
Post-driver. B. L. Willis. No. 1,021,121; Mar. 26; Sp. p. 4479; Gaz. vol. 176; p. 828.
Post-driver. E. S. and C. P. Hansen. No. 1,041,073; Oct. 15; Gaz. vol. 183; p. 540.
Post-hole digger. W. O. Goodwin. No. 1,027,199; May 21; Sp. p. 4688; Gaz. vol. 178; p. 788.
Post-hole digger. S. E. Broomall. No. 1,030,713; June 25; Sp. p. 5989; Gaz. vol. 179; p. 1021.
Post-hole digger. E. L. Tittsworth. No. 1,039,613; Sept. 24; Gaz. vol. 182; p. 915.
Post-hole digger and shovel. W. F. Fryckberg. No. 1,028,872; June 11; Sp. p. 1740; Gaz. vol. 179; p. 304.
Post-hole-digging machine. S. Dixon. No. 1,036,584; Aug. 27; Gaz. vol. 181; p. 846.
Post-mold. F. P. Van Hook. No. 1,017,026; Feb. 13; Sp. p. 1764; Gaz. vol. 175; p. 307.
Post-mold. J. T. Neeley. No. 1,018,072; Feb. 20; Sp. p. 4103; Gaz. vol. 175; p. 706.
Post-mold. W. T. Hicks. No. 1,045,028; Nov. 19; Gaz. vol. 184; p. 751.
Post-pointing machine. H. Thompson. No. 1,029,958; June 18; Sp. p. 4132; Gaz. vol. 179; p. 715.
Post-puller. P. T. Lamkin. No. 1,017,425; Feb. 13; Sp. p. 2644; Gaz. vol. 175; p. 447.
Post to a base, Adjustable means for detachably connecting a. M. Backes. No. 1,042,187; Oct. 22; Gaz. vol. 183; p. 949.
Posts and well-tubing, Machine for driving. A. A. Mouchet. No. 1,019,687; Mar. 5; Sp. p. 1483; Gaz. vol. 176; p. 229.
Posts, Wire-support for. W. T. Hicks. No. 1,045,027; Nov. 19; Gaz. vol. 184; p. 751.
Postage stamping and recording apparatus. T. M. Belknap. No. 1,024,389; Apr. 23; Sp. p. 5590; Gaz. vol. 177; p. 980.
Postal card, Puzzle. C. M. Conley. No. 1,018,879; Feb. 27; Sp. p. 5871; Gaz. vol. 175; p. 1013.
Postal card, puzzle, boat, and box. Combined convertible souvenir and advertising. S. L. Lazaron. No. 1,029,069; June 11; Sp. p. 2167; Gaz. vol. 179; p. 373.
Postal-card rack. S. B. Clay. No. 1,016,915; Feb. 6; Sp. p. 1506; Gaz. vol. 175; p. 233.
Poster-holder. A. H. Roby and C. H. Cutter. No. 1,017,805; Feb. 20; Sp. p. 3483; Gaz. vol. 175; p. 612.
Postmarking-machine. P. Madigan and J. Rehak. No. 1,039,560; Sept. 24; Gaz. vol. 182; p. 897.
Postmarking-machine, Electro. F. G. Boswell. No. 1,024,552; Apr. 30; Sp. p. 6047; Gaz. vol. 177; p. 1074.
Pot: *See* Annealing-pot; Coffee-pot; Coffee and tea pot; Dash-pot; Engine fire-pot; Flower-pot; Glass-pot; Marking-pot; Pouring-pot; Tea and coffee pot; Transplanting-pot.
Pot-furnace. A. Tuite. No. 1,015,522; Jan. 23; Sp. p. 5361; Gaz. vol. 174; p. 920.
Pot-furnace. S. O. Richardson, Jr. No. 1,021,798; Apr. 2; Sp. p. 92; Gaz. vol. 177; p. 18.
Pot-handle. W. H. and L. H. Hall. No. 1,015,176; Jan. 16; Sp. p. 4601; Gaz. vol. 174; p. 775.
Pots and other utensils, Instrument for lifting hot. A. Altmann. No. 1,044,968; Nov. 19; Gaz. vol. 184; p. 730.
Pots and pans, Supplemental bottom for. F. Chaloud, Jr. No. 1,021,133; Mar. 26; Sp. p. 4513; Gaz. vol. 176; p. 832.
Potash-bulb. G. P. Vanier. No. 1,034,170; July 30; Gaz. vol. 180; p. 1285.
Potash from feldspar, Obtaining. J. M. Neil. No. 1,034,281; July 30; Gaz. vol. 180; p. 1324.
Potassium hydrogen phosphate, Producing. B. Peacock. No. 1,046,327; Dec. 3; Gaz. vol. 185; p. 184.
Potato cutter, Seed-. C. M. Barnebey. No. 1,030,154; June 18; Sp. p. 4526; Gaz. vol. 179; p. 782.
Potato-digger. J. Hist. No. 1,014,394; Jan. 9; Sp. p. 2906; Gaz. vol. 174; p. 481.
Potato-digger. A. Lauritzen and J. F. Nielsen. No. 1,014,493; Jan. 9; Sp. p. 3084; Gaz. vol. 174; p. 513.
Potato-digger. A. D. Rusnak. No. 1,017,918; Feb. 20; Sp. p. 3757; Gaz. vol. 175; p. 653.
Potato-digger. S. J. Fritz. No. 1,021,592; Mar. 26; Sp. p. 5517; Gaz. vol. 176; p. 990.
Potato-digger. P. McGrath. No. 1,024,269; Apr. 23; Sp. p. 5393; Gaz. vol. 177; p. 944.
Potato-digger. R. L. Teed. No. 1,029,831; June 18; Sp. p. 3835; Gaz. vol. 179; p. 673.
Potato-digger. J. J. Schubert. No. 1,033,475; July 23; Gaz. vol. 180; p. 1022.
Potato-digger. C. L. Sladinska. No. 1,035,251; Aug. 13; Gaz. vol. 181; p. 315.
Potato-digger. J. Hist. No. 1,037,006; Aug. 27; Gaz. vol. 181; p. 985.
Potato digger and separator. P. J. Scharbach. No. 1,046,224; Dec. 3; Gaz. vol. 185; p. 148.
Potato-digger attachment. L. Willis. No. 1,015,110; Jan. 16; Sp. p. 4482; Gaz. vol. 174; p. 755.
Potato-diggers, Attachment for elevated. G. W. Cooper. No. 1,015,299; Jan. 23; Sp. p. 4874; Gaz. vol. 174; p. 844.
Potato-digging machine. M. McIlveene and L. A. Hayes. No. 1,019,681; Mar. 5; Sp. p. 1475; Gaz. vol. 176; p. 228.
Potato-digging machine. J. Bamford. No. 1,020,247; Mar. 12; Sp. p. 2645; Gaz. vol. 176; p. 449.
Potato-hiller. H. H. Dins. No. 1,047,921; Dec. 24; Gaz. vol. 185; p. 838.
Potato-picker. A. Gilmore. No. 1,028,205; June 4; Sp. p. 332; Gaz. vol. 179; p. 44.
Potato-preserving house, Sweet-. P. T. Parker. No. 1,043,624; Nov. 5; Gaz. vol. 184; p. 206.
Potato-sorter. F. Boggs. No. 1,032,375; July 16; Gaz. vol. 180; p. 613.
Potato-vine arranger. J. P. Manson. No. 1,030,475; June 25; Sp. p. 5278; Gaz. vol. 179; p. 936.
Potatoes, &c., Implement for mashing. W. A. Jackson. No. 1,023,317; Apr. 16; Sp. p. 3364; Gaz. vol. 177; p. 600.
Potatoes in order to obtain both a cattle food and a proteid, Treating raw. H. Gumpel. No. 1,047,627; Dec. 17; Gaz. vol. 185; p. 708.
Potatoes, pineapples, &c., Device for removing eyes from. U. Lobb. No. 1,038,164; Sept. 10; Gaz. vol. 182; p. 364.
Potatoes, Producing raw dehydrated Irish. E. B. Hutchins, Jr. No. 1,016,503; Feb. 6; Sp. p. 616; Gaz. vol. 175; p. 94.
Potential switch. J. D. Ihlder. No. 1,025,140; May 7; Sp. p. 61; Gaz. vol. 178; p. 11.
Pottery-jigger. J. Crossley. No. 1,028,549; June 4; Sp. p. 1053; Gaz. vol. 179; p. 161.
Pottery-machine. F. Kayser. No. 1,024,511; Apr. 30; Sp. p. 5935; Gaz. vol. 177; p. 1059.
Poultry apparatus. E. W. Olson. No. 1,023,030; Apr. 9; Sp. p. 2708; Gaz. vol. 177; p. 463.

Alphabetical list of inventions—Continued.

Poultry-cooling rack. M. E. Pennington and H. C. Pierce. No. 1,020,575; Mar. 19; Sp. p. 3343; Gaz. vol. 176; p. 594.
Poultry-disinfector, Automatic. J. W. Donathan. No. 1,045,129; Nov. 26; Gaz. vol. 184; p. 815.
Poultry-fountain. W. G. Klussman. No. 1,023,658; Apr. 16; Sp. p. 4037; Gaz. vol. 177; p. 708.
Poultry-fountain. E. A. Benson. No. 1,035,817; Aug. 13; Gaz. vol. 181; p. 509.
Poultry-fountain. A. Schreck. No. 1,042,040; Oct. 22; Gaz. vol. 183; p. 901.
Poultry-fountain. E. E. Wills. No. 1,045,653; Nov. 26; Gaz. vol. 184; p. 1000.
Poultry-house, Collapsible, portable, vermin-proof. M. C. Rogers. No. 1,018,007; Feb. 20; Sp. p. 3947; Gaz. vol. 175; p. 683.
Poultry-house equipment. A. F. Blechschmidt. No. 1,029,844; June 18; Sp. p. 3884; Gaz. vol. 179; p. 677.
Poultry-house fixture. J. H. Harvey. No. 1,047,050; Dec. 10; Gaz. vol. 185; p. 471.
Pounding-up, leveling, or smoothing roll. A. Bates. No. 1,015,776; Jan. 30; Sp. p. 5912; Gaz. vol. 174; p. 1035.
Pounding-up machine. S. Snow. No. 1,018,526; Feb. 27; Sp. p. 5125; Gaz. vol. 175; p. 893.
Pounding-up machine. R. F. McFeely. No. 1,019,067; Mar. 5; Sp. p. 117; Gaz. vol. 176; p. 22.
Pounding-up machine. C. E. Shattuck. No. 1,030,751; June 25; Sp. p. 6073; Gaz. vol. 179; p. 1035.
Pounding-up machine. O. Ashton. No. 1,048,788; Dec. 31; Gaz. vol. 185; p. 1171.
Pounding-up roll. J. Gouldbourn. No. 1,019,890; Mar. 12; Sp. p. 1893; Gaz. vol. 176; p. 330.
Pouring-pot. W. P. Tarrant. No. 1,021,015; Mar. 26; Sp. p. 4270; Gaz. vol. 176; p. 793.
Pouring vessel, Duplex. C. G. Sims. No. 1,025,653; May 7; Sp. p. 1224; Gaz. vol. 178; p. 188.
Powder, Apparatus for treating explosive. F. I. Du Pont. No. 1,017,286; Feb. 13; Sp. p. 2342; Gaz. vol. 175; p. 399.
Powder-applying device, Toilet-. C. E. Heil. No. 1,042,673; Oct. 29; Gaz. vol. 183; p. 1146.
Powder, Blasting-. R. Ponnay. No. 1,033,927; July 30; Gaz. vol. 180; p. 1199.
Powder-box. B. H. Smith. No. 1,028,618; June 4; Sp. p. 1204; Gaz. vol. 179; p. 184.
Powder-box. H. C. Welton. No. 1,039,862; Oct. 1; Gaz. vol. 183; p. 65.
Powder-box. M. H. Avram. No. 1,040,991; Oct. 15; Gaz. vol. 183; p. 512.
Powder, Cleaning-. E. W. Oldham. No. 1,048,575; Dec. 31; Gaz. vol. 185; p. 1095.
Powder dispenser, Toilet-. E. Oldenbusch. No. 1,045,071; Nov. 19; Gaz. vol. 184; p. 766.
Powder-distributer. C. H. Leggett. No. 1,033,811; July 30; Gaz. vol. 180; p. 1158.
Powder grinding and sorting apparatus. C. T. Fuller. No. 1,041,769; Oct. 22; Gaz. vol. 183; p. 808.
Powder, Method of and apparatus for charging. W. H. Plummer and J. Tresider. No. 1,029,630; June 18; Sp. p. 3381; Gaz. vol. 179; p. 602.
Powder or liquid receptacle. R. C. Ziringer. No. 1,043,656; Nov. 5; Gaz. vol. 184; p. 216.
Powder or shaker receptacle. W. C. Kendall and J. T. Stapleton. No. 1,046,803; Dec. 10; Gaz. vol. 185; p. 391.
Powder-packing machine. T. Paraskovich. No. 1,037,974; Sept. 10; Gaz. vol. 182; p. 302.
Powder-receptacle. F. W. Smith. No. 1,013,325; Jan. 2; Sp. p. 528; Gaz. vol. 174; p. 83.
Powder-receptacle. W. Pike. No. 1,025,924; May 7; Sp. p. 1822; Gaz. vol. 178; p. 281.
Powder, Safety blasting-. G. M. Peters. No. 1,048,578; Dec. 31; Gaz. vol. 185; p. 1096.
Powdered material in cans or barrels, Apparatus for packing. H. Å. Åbjörnsson and N. Fredriksson. No. 1,049,029; Dec. 31; Gaz. vol. 185; p. 1254.
Power and regulating speed, Apparatus for transmitting. H. D. Williams. No. 1,044,838; Nov. 19; Gaz. vol. 184; p. 686.
Power apparatus. L. E. Fish. No. 1,021,241; Mar. 26; Sp. p. 4749; Gaz. vol. 176; p. 867.
Power apparatus, Internal-combustion. I. N. Lewis. No. 1,035,454; Aug. 13; Gaz. vol. 181; p. 387.
Power device. M. C. White and O. C. Duryea. No. 1,033,505; July 23; Gaz. vol. 180; p. 1031.
Power device, Rotary fluid-. R. Graf. No. 1,042,215; Oct. 22; Gaz. vol. 183; p. 959.
Power, Distribution of electromotive. H. Chitty, F. M. T. Lange, and G. W. Mascord. No. 1,020,025; Mar. 12; Sp. p. 2169; Gaz. vol. 176; p. 374.
Power engine, Water-cooled heat-. O. Reissig. No. 1,029,889; June 18; Sp. p. 3981; Gaz. vol. 179; p. 693.
Power for industrial purposes, System of developing natural. M. W. Marsden. No. 1,036,502; Aug. 20; Gaz. vol. 181; p. 785.
Power for presses, &c., Generator of hydraulic. A. T. Bossert. No. 1,038,524; Sept. 17; Gaz. vol. 182; p. 521.
Power from axles to bodies of railway-cars, Means for transmitting. L. T. Mann. No. 1,019,903; Mar. 12; Sp. p. 1921; Gaz. vol. 176; p. 334.
Power from waves of the ocean, lakes, or other large bodies of water, Mechanism for the obtainment of motive. J. Willy. No. 1,045,654; Nov. 26; Gaz. vol. 184; p. 1001.
Power-generating apparatus. E. F. Hopkins. No. 1,031,118; July 2; Gaz. vol. 180; p. 96.
Power-generating method and means. J. M. W. Kitchen. No. 1,046,308; Dec. 3; Gaz. vol. 185; p. 178.
Power-generating system, Liquid expanding and concentrating. J. Patten. No. 1,032,236; July 9; Gaz. vol. 180; p. 520.
Power-generator. G. A. Krohn and E. M. Arreagada. No. 1,019,164; Mar. 5; Sp. p. 351; Gaz. vol. 176; p. 55.
Power-generator. V. C. de Ybarrondo. No. 1,028,414; June 4; Sp. p. 771; Gaz. vol. 179; p. 117.
Power generator, Gaseous-. G. Matricardi. No. 1,036,288; Aug. 20; Gaz. vol. 181; p. 711.
Power installation. W. Morrison. No. 1,044,409; Nov. 12; Gaz. vol. 184; p. 506.
Power, Machinery for the hydraulic transmission of. H. D. Williams. No. 1,047,600; Dec. 17; Gaz. vol. 185; p. 699.
Power mechanism. W. H. Voss. No. 1,031,100; July 2; Gaz. vol. 180; p. 89.
Power molding-machine. C. E. A. Thompson. No. 1,016,530; Feb. 6; Sp. p. 688; Gaz. vol. 175; p. 103.
Power plant. W. C. Meadows. No. 1,047,675; Dec. 17; Gaz. vol. 185; p. 726.
Power plant, Internal-combustion. L. Illmer, Jr., and E. J. Kunze. No. 1,048,697; Dec. 31; Gaz. vol. 185; p. 1140.
Power plant, Soda-boiler steam-. R. D'Equevilley-Montjustin. No. 1,029,180; June 11; Sp. p. 2402; Gaz. vol. 179; p. 409.
Power-presses, Safety appliance for hand-fed. F. S. Aliano. No. 1,014,359; Jan. 9; Sp. p. 2839; Gaz. vol. 174; p. 469.
Power-presses, Safety-lever attachment for. C. M. Gardiner. No. 1,032,397; July 16; Gaz. vol. 180; p. 620.
Power-producing apparatus. W. H. Drummond. No. 1,041,253; Oct. 15; Gaz. vol. 183; p. 600.
Power-producing plant. F. C. Bell. No. 1,047,903; Dec. 17; Gaz. vol. 185; p. 803.
Power-producing process. P. Danckwardt. No. 1,023,819; Apr. 23; Sp. p. 4356; Gaz. vol. 177; p. 787.
Power-table for kitchen utensils. J. H. Goebst and R. G. Carpenter. No. 1,014,217; Jan. 9; Sp. p. 2494; Gaz. vol. 174; p. 419.
Power transmission. J. W. Lambert. No. 1,013,786; Jan. 2; Sp. p. 1526; Gaz. vol. 174; p. 242.
Power transmission. S. Hughes. No. 1,036,119; Aug. 20; Gaz. vol. 181; p. 650.
Power transmission. C. W. Taylor. No. 1,043,372; Nov. 5; Gaz. vol. 184; p. 117.
Power transmission. A. Sundh. No. 1,043,480; Nov. 5; Gaz. vol. 184; p. 156.
Power-transmission apparatus. H. E. White. No. 1,017,355; Feb. 13; Sp. p. 2487; Gaz. vol. 175; p. 422.
Power-transmission device. L. Vorhies. No. 1,014,102; Jan. 9; Sp. p. 2268; Gaz. vol. 174; p. 378.
Power-transmission device. G. W. Marble. No. 1,015,049; Jan. 16; Sp. p. 4368; Gaz. vol. 174; p. 733.
Power-transmission device. D. K. Wilson. No. 1,021,030; Mar. 26; Sp. p. 4298; Gaz. vol. 176; 798.
Power-transmission device. J. Lovely. No. 1,022,099; Apr. 2; Sp. p. 733; Gaz. vol. 177; p. 117.
Power-transmission device. E. Shepherd. No. 1,034,315; July 30; Gaz. vol. 180; p. 1334.
Power-transmission device. G. W. Marble. No. 1,038,918; Sept. 17; Gaz. vol. 182; p. 660.
Power-transmission device. V. G. Apple. No. 1,039,685; Oct. 1; Gaz. vol. 183; p. 4.
Power-transmission mechanism. G. A. Morgan No. 1,021,159; Mar. 26; Sp. p. 4570; Gaz. vol. 176; p. 840.
Power-transmission mechanism. H. E. Marshall and R. Isaksen. No. 1,023,262; Apr. 16; Sp. p. 3254; Gaz. vol. 177; p. 582.
Power-transmission mechanism. D. Nettenstrom. No. 1,024,742; Apr. 30; Sp. p. 6463; Gaz. vol. 177; p. 1140.
Power-transmission mechanism. H. Föttinger. No. 1,024,982; Apr. 30; Sp. p. 6956; Gaz. vol. 177; p. 1223.
Power-transmission mechanism. C. W. Taylor. No. 1,025,331; May 7; Sp. p. 498; Gaz. vol. 178; p. 77.
Power-transmission mechanism. C. W. Taylor. No. 1,025,332; May 7; Sp. p. 499; Gaz. vol. 178; p. 78.
Power-transmission mechanism. J. W. Lambert. No. 1,025,875; May 7; Sp. p. 1690; Gaz. vol. 178; p. 264.
Power-transmission mechanism. L. M. G. Delaunay-Belleville. No. 1,026,498; May 14; Sp. p. 3104; Gaz. vol. 178; p. 512.
Power-transmission mechanism. R. C. Mitchell. No. 1,028,128; June 4; Sp. p. 74; Gaz. vol. 179; p. 16.
Power-transmission mechanism. T. R. Ryszka. No. 1,033,273; July 23; Gaz. vol. 180; p. 956.
Power-transmission mechanism. J. Swanson. No. 1,035,654; Aug. 13; Gaz. vol. 181; p. 455.
Power-transmission mechanism. M. C. Krarup. No. 1,039,963; Oct. 1; Gaz. vol. 183; p. 97.
Power-transmission mechanism. C. D. McClintock. No. 1,041,132; Oct. 15; Gaz. vol. 183; p. 559.

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Power-transmission mechanism. W. H. Hunt. No. 1,048,076; Dec. 24; Gaz. vol. 185; p. 888.
Power-transmission mechanism, Electromagnetically-controlled. A. Sundh. No. 1,047,329; Dec. 17; Gaz. vol. 185; p. 604.
Power-transmission mechanism, Friction. N. G. Robinson. No. 1,036,007; Aug. 20; Gaz. vol. 181; p. 609.
Power-transmission mechanism, Reversible. O. Smith. No. 1,033,284; July 23; Gaz. vol. 180; p. 960.
Power-transmission mechanism, Variable-speed. W. I. Twombly. No. 1,018,219; Feb. 20; Sp. p. 4401; Gaz. vol. 175; p. 757.
Power-transmission mechanism, Variable-speed. W. I. Twombly. No. 1,038,689; Sept. 17; Gaz. vol. 182; p. 580.
Power transmission, Pneumatic. F. M. Prather. No. 1,036,334; Aug. 20; Gaz. vol. 181; p. 727.
Power-transmission system. A. Sundh. No. 1,036,743; Aug. 27; Gaz. vol. 181; p. 897.
Power-transmission system. C. Krämer. No. 1,041,103; Oct. 15; Gaz. vol. 183; p. 550.
Power transmission, Variable-speed. V. V. Messer. No. 1,045,582; Nov. 26; Gaz. vol. 184; p. 975.
Power-transmitter. E. Fabian and F. Wildmark. No. 1,023,366; Apr. 16; Sp. p. 3445; Gaz. vol. 177; p. 615.
Power-transmitting apparatus. A. Plagman. No. 1,026,998; May 21; Sp. p. 4224; Gaz. vol. 178; p. 720.
Power-transmitting device. E. M. Woodward. No. 1,016,535; Feb. 6; Sp. p. 703; Gaz. vol. 175; p. 105.
Power-transmitting device. J. Stromeyer. No. 1,040,588; Oct. 8; Gaz. vol. 183; p. 342.
Power-transmitting device. J. W. Stoker. No. 1,043,641; Nov. 5; Gaz. vol. 184; p. 212.
Power-transmitting means. A. J. Signor. No. 1,040,443; Oct. 8; Gaz. vol. 183; p. 289.
Power-transmitting mechanism. A. P. Filippi. No. 1,032,327; July 9; Gaz. vol. 180; p. 552.
Power-transmitting mechanism. J. E. Bissell. No. 1,038,833; Sept. 17; Gaz. vol. 182; p. 630.
Power-transmitting mechanism. T. S. Hutchings. No. 1,040,336; Oct. 8; Gaz. vol. 183; p. 253.
Power-transmitting mechanism. G. S. Johnson. No. 1,042,005; Oct. 22; Gaz. vol. 183; p. 890.
Power-transmitting mechanism. A. E. Osborn. No. 1,049,260; Dec. 31; Gaz. vol. 185; p. 1332.
Power-transmitting mechanism for motor-vehicles. F. A. Kirby. No. 1,027,736; May 28; Sp. p. 5775; Gaz. vol. 178; p. 1006.
Power transmuter, Current-. N. R. Smith. No. 1,030,835; June 25; Sp. p. 6394; Gaz. vol. 179; p. 1066.
Power-wheel. H. B. Johnston. No. 1,037,260; Sept. 3; Gaz. vol. 182; p. 29.
Power-wrench. C. L. Brink. No. 1,039,642; Sept. 24; Gaz. vol. 182; p. 925.
Practice-ball. C. B. W. Kip. No. 1,014,233; Jan. 9; Sp. p. 2545; Gaz. vol. 174; p. 425.
Precious metals, Apparatus for the recovery of. H. N. Potter. No. 1,030,490; June 25; Sp. p. 5307; Gaz. vol. 179; p. 941.
Precious metals from cyanid solutions, Precipitation of. J. M. Neil. No. 1,018,438; Feb. 27; Sp. p. 4879; Gaz. vol. 175; p. 864.
Precious metals from cyanid solutions, Precipitation of. J. M. Neil. No. 1,023,524; Apr. 16; Sp. p. 3763; Gaz. vol. 177; p. 665.
Precipitates in settling vessels, Apparatus for compressing. F. Tiemann. No. 1,042,293; Oct. 22; Gaz. vol. 183; p. 984.
Precision, Instrument of. J. Gasgott. No. 1,022,849; Apr. 9; Sp. p. 2352; Gaz. vol. 177; p. 402.
Prepayment-meter. F. Conrad. No. 1,017,082; Feb. 13; Sp. p. 1916; Gaz. vol. 175; p. 329.
Preserve-jar. D. M. Barr. No. 1,048,483; Dec. 31; Gaz. vol. 185; p. 1064.
Preservative composition, Compounding a. C. T. Henning. No. 1,035,789; Aug. 13; Gaz. vol. 181; p. 498.
Preserving. J. C. Lincoln. No. 1,044,201; Nov. 12; Gaz. vol. 184; p. 435.
Preserving animal tissues and the products obtained thereby. J. R. Hatmaker. No. 1,027,128; May 21; Sp. p. 4555; Gaz. vol. 178; p. 765.
Preserving fish. A. Danilevsky. No. 1,046,991; Dec. 10; Gaz. vol. 185; p. 451.
Preserving food. F. L. Randel. No. 1,039,802; Oct. 1; Gaz. vol. 183; p. 45.
Preserving food products. E. D. Schmitt. No. 1,041,518; Oct. 15; Gaz. vol. 183; p. 688.
Preserving food products, Protectively. J. J. Fitzgerald. No. 1,048,675; Dec. 31; Gaz. vol. 185; p. 1132.
Preserving fresh meat and fish. W. Dahle. No. 1,032,885; July 16; Gaz. vol. 180; p. 785.
Preserving fruit and vegetables. H. Dujardin. No. 1,018,812; Feb. 27; Sp. p. 5744; Gaz. vol. 175; p. 991.
Preserving mushrooms. E. H. Jacob. No. 1,018,909; Feb. 27; Sp. p. 5937; Gaz. vol. 175; p. 1023.
Preserving of raw victuals of animal origin. S. Gironcoli. No. 1,017,144; Feb. 13; Sp. p. 2036; Gaz. vol. 175; p. 350.
Preserving or cooking fruits or vegetables. F. and A. Blassneck. No. 1,028,669; June 4; Sp. p. 1304; Gaz. vol. 179; p. 201.
Preserving perishable goods. L. Prenzlau. No. 1,045,178; Nov. 26; Gaz. vol. 184; p. 831.
Press: *See* Adjustable press; Arbor-press; Baling-press; Bosom-press; Box-press; Brick-press; Broom-band press; Cheese-press; Clothes-press; Continuous press; Cotton-press; Cuff-press; Dental press; Die-press; Drawing-press; Drill-press; Extrusion-press; Filter-press; Filtering-press; Forging-press; Forming-press; Galley-proofing press; Hammer-press; Hand-press; Hat-press; Hay-press; Hay and straw press; Hydraulic press; Leather-loop-finishing press; Lithographic press; Matrix-drying press; Matrix-making press; Metal-bending press; Molding-press; Mop-press; Necktie-press; Oil-press; Pipe-making press; Printing-press; Proof-press; Punch-press; Punching-press; Rotary press; Seal-press; Sealing-press; Shingle-press; Soap-press; Stake-press; Stamping-press; Straw-press; Strengthening-press; Tile-press; Tramper-press; Transfer-press; Type-writer press; Veneer-press; Wax-press.
Press. M. N. Hoppe. No. 1,014,222; Jan. 9; Sp. p. 2507; Gaz. vol. 174; p. 421.
Press. T. G. Wolfe. No. 1,015,371; Jan. 23; Sp. p. 5037; Gaz. vol. 174; p. 869.
Press. E. Honegger. No. 1,016,070; Jan. 30; Sp. p. 6558; Gaz. vol. 174; p. 1138.
Press. L. A. Casgrain. No. 1,016,983; Feb. 13; Sp. p. 1680; Gaz. vol. 175; p. 294.
Press. W. J. Mulvey. No. 1,018,676; Feb. 27; Sp. p. 5446; Gaz. vol. 175; p. 945.
Press. J. J. Berrigan. No. 1,018,957; Feb. 27; Sp. p. 6030; Gaz. vol. 175; p. 1040.
Press. D. C. Fitch. No. 1,023,145; Apr. 16; Sp. p. 3012; Gaz. vol. 177; p. 541.
Press. J. E. Davis. No. 1,024,721; Apr. 30; Sp. p. 6426; Gaz. vol. 177; p. 1132.
Press. H. C. McLearn. No. 1,026,876; May 21; Sp. p. 3929; Gaz. vol. 178; p. 678.
Press. W. E. Broughton. No. 1,028,324; June 4; Sp. p. 567; Gaz. vol. 179; p. 84.
Press. E. G. Jegge. No. 1,030,408; June 25; Sp. p. 5113; Gaz. vol. 179; p. 912.
Press. A. Bates. No. 1,030,800; June 25; Sp. p. 6231; Gaz. vol. 179; p. 1053.
Press. M. A. Cuming. No. 1,037,841; Sept. 3; Gaz. vol. 182; p. 221.
Press. O. Riemann. No. 1,039,444; Sept. 24; Gaz. vol. 182; p. 855.
Press-feeding-mechanism shifting device. W. P. Bettendorf. No. 1,016,062; Jan. 30; Sp. p. 6534; Gaz. vol. 174; p. 1135.
Press for extracting liquid from materials. A. S. Mackenzie. No. 1,030,594; June 25; Sp. p. 5639; Gaz. vol. 179; p. 977.
Press for forming pulp articles. W. W. Grenville. No. 1,019,786; Mar. 12; Sp. p. 1686; Gaz. vol. 176; p. 294.
Press for making briquets and the like. W. Müller. No. 1,029,817; June 18; Sp. p. 3805; Gaz. vol. 179; p. 667.
Press for testing, &c. L. Bollée. No. 1,018,158; Feb. 20; Sp. p. 4288; Gaz. vol. 175; p. 736.
Press, &c., guard. P. Kempter. No. 1,049,102; Dec. 31; Gaz. vol. 185; p. 1279.
Press-plate. W. S. Hadaway, Jr. No. 1,036,612; Aug. 27; Gaz. vol. 181; p. 855.
Press provided with an oscillating pressing-arm. J. Sandt. No. 1,024,423; Apr. 23; Sp. p. 5701; Gaz. vol. 177; p. 992.
Press tympan, Hand-proof-. P. J. Shniedewend, Jr. No. 1,026,055; May 14; Sp. p. 2125; Gaz. vol. 178; p. 361.
Presses, Delivery mechanism for platen-. L. E. Morrison. No. 1,025,418; May 7; Sp. p. 681; Gaz. vol. 178; p. 108.
Presses, Perforating means for cylinder-. W. Lowy and J. Milch. No. 1,026,218; May 14; Sp. p. 2501; Gaz. vol. 178; p. 418.
Presses, Retaining device for. P. Eberhardt. No. 1,027,189; May 21; Sp. p. 4666; Gaz. vol. 178; p. 785.
Presses, Safety device for. O. J. Senftleben. No. 1,044,696; Nov. 19; Gaz. vol. 184; p. 637.
Presses, Safety-guard for foot or screw. J. M. Jones. No. 1,041,092; Oct. 15; Gaz. vol. 183; p. 546.
Presses, Safety-guard for stamping and other. J. M. Jones. No. 1,042,445; Oct. 29; Gaz. vol. 183; p. 1065.
Presses, Transfer attachment and stop-motion for. A. J. Lewis. No. 1,031,351; July 2; Gaz. vol. 180; p. 177.
Presser-foot. A. H. De Voe. No. 1,041,251; Oct. 15; Gaz. vol. 183; p. 599.
Pressing and drying strips of fabric and cutting them into lengths, Machine for. E. E. Otto. No. 1,044,687; Nov. 19; Gaz. vol. 184; p. 634.
Pressing and finishing iron. G. E. Price. No. 1,045,179; Nov. 26; Gaz. vol. 184; p. 831.
Pressing-bed, Steam. A. Lasance. No. 1,014,011; Jan. 9; Sp. p. 2057; Gaz. vol. 174; p. 347.
Pressing garments. D. C. Hale, Jr. No. 1,038,123; Sept. 10; Gaz. vol. 182; p. 349
Pressing-machine. H. H. Burns. No. 1,023,066; Apr. 9; Sp. p. 2794; Gaz. vol. 177; p. 475.
Pressing-machine. H. Lindestrom. No. 1,023,575; Apr. 16; Sp. p. 3875; Gaz. vol. 177; p. 682.

Alphabetical list of inventions—Continued.

Pressing-machine. H. Price. No. 1,027,502; May 28; Sp. p. 5304; Gaz. vol. 178; p. 929.
Pressing machine, Garment-. W. J. Danenhower. No. 1,022,535; Apr. 9; Sp. p. 1647; Gaz. vol. 177; p. 293.
Pressing machine, Garment-. C. Todd. No. 1,038,686; Sept. 17; Gaz. vol. 182; p. 579.
Pressing machine, Seam-. J. Bernard and W. S. Clayton. No. 1,048,794; Dec. 31; Gaz. vol. 185; p. 1173.
Pressing-machines, Bed or table for steam. W. A. Petrie and C. D. Stratton. No. 1,031,960; July 9; Gaz. vol. 180; p. 428.
Pressing pasty masses, more particularly mixtures of asbestos and cement, Machine for. F. Hloch. No. 1,021,098; Mar. 26; Sp. p. 4435; Gaz. vol. 176; p. 821.
Pressure-control apparatus, Duplex. H. M. P. Murphy. No. 1,015,824; Jan. 30; Sp. p. 6012; Gaz. vol. 174; p. 1050.
Pressure-control apparatus, Duplex. W. V. Turner. No. 1,015,855; Jan. 30; Sp. p. 6084; Gaz. vol. 174; p. 1060.
Pressure-controlling device. A. J. Dronsfield. No. 1,020,641; Mar. 19; Sp. p. 3482; Gaz. vol. 176; p. 615.
Pressure-controlling mechanism. J. S. McWhirter. No. 1,016,025; Jan. 30; Sp. p. 6442; Gaz. vol. 174; p. 1122.
Pressure-equalizer, Play-pipe. W. B. Strebig. No. 1,048,004; Dec. 24; Gaz. vol. 185; p. 864.
Pressure-gage. T. A. Nelson. No. 1,018,582; Feb. 27; Sp. p. 5263; Gaz. vol. 175; p. 914.
Pressure-gage. C. O. Everhart. No. 1,022,310; Apr. 2; Sp. p. 1158; Gaz. vol. 177; p. 186.
Pressure-gage. S. Dinsmore. No. 1,023,821; Apr. 23; Sp. p. 4362; Gaz. vol. 177; p. 788.
Pressure-gage. R. M. Dixon. No. 1,032,384; July 16; Gaz. vol. 180; p. 616.
Pressure-gage. G. W. Kellogg. No. 1,038,385; Sept. 10; Gaz. vol. 182; p. 438.
Pressure-gage. J. Okill. No. 1,042,958; Oct. 29; Gaz. vol. 183; p. 1243.
Pressure-gage. G. W. Kellogg. No. 1,043,439; Nov. 5; Gaz. vol. 184; p. 140.
Pressure-gage. E. J. Haverly. No. 1,043,591; Nov. 5; Gaz. vol. 184; p. 194.
Pressure-gage. C. J. Manning. No. 1,043,618; Nov. 5; Gaz. vol. 184; p. 204.
Pressure-gage. W. H. Bristol. No. 1,045,770; Nov. 26; Gaz. vol. 184; p. 1041.
Pressure-gage. C. R. Twitchell. No. 1,048,237; Dec. 24; Gaz. vol. 185; p. 941.
Pressure-gage for spraying-tanks. A. J. Tyler. No. 1,047,719; Dec. 17; Gaz. vol. 185; p. 741.
Pressure-gage, Pneumatic. O. Olsen. No. 1,041,336; Oct. 15; Gaz. vol. 183; p. 628.
Pressure gage, Recording low-. C. J. Manning. No. 1,044,678; Nov. 19; Gaz. vol. 184; p. 630.
Pressure-governor, Automatic. I. F. Gordon. No. 1,046,176; Dec. 3; Gaz vol. 185; p. 129.
Pressure-increaser. E. F. Lloyd. No. 1,014,830; Jan. 16; Sp. p. 3885; Gaz. vol. 174; p. 659.
Pressure-indicator. W. Seymour. No. 1,037,550; Sept. 3; Gaz. vol. 182; p. 127.
Pressure-indicator. J. H. Wilson. No. 1,049,187; Dec. 31; Gaz. vol. 185; p. 1306.
Pressure recorder, Differential-. W. H. Bristol. No. 1,038,526; Sept. 17; Gaz. vol. 182; p. 522.
Pressure-recorder, Long-distance. J. W. Bard. No. 1,028,851; June 11; Sp. p. 1690; Gaz. vol. 179; p. 296.
Pressure-reducer. S. Brown. No. 1,042,078; Oct. 22; Gaz. vol. 183; p. 914.
Pressure-reducing device. T. H. Manchester. No. 1,022,322; Apr. 2; Sp. p. 1183; Gaz. vol. 177; p. 190.
Pressure-regulating device. G. E. Predock and C. E. Anderson. No. 1,016,519; Feb. 6; Sp. p. 661; Gaz. vol. 175; p. 99.
Pressure-regulator. I. J. Ralston and J. A. Briggs. No. 1,020,369; Mar. 12; Sp. p. 2870; Gaz. vol. 176; p. 486.
Pressure-regulator. M. V. Smith. No. 1,021,383; Mar. 26; Sp. p. 5032; Gaz. vol. 176; p. 917.
Pressure-regulator. E. W. Evans. No. 1,032,052; July 9; Gaz. vol. 180; p. 457.
Pressure-regulator. E. Zahm. No. 1,042,745; Oct. 29; Gaz. vol. 183; p. 1171.
Pressure-regulator. H. E. Shawver. No. 1,042,980; Oct. 29; Gaz. vol. 183; p. 1250.
Pressure-regulator. P. J. Schuler. No. 1,045,197; Nov. 26; Gaz. vol. 184; p. 837.
Pressure-regulator. J. L. Creveling. No. 1,045,375; Nov. 26; Gaz. vol. 184; p. 900.
Pressure-regulator, Automatic. H. W. Kimes. No. 1,042,008; Oct. 22; Gaz. vol. 183; p. 891.
Pressure regulator, Exhaust-. J. J. Aull. No. 1,046,718; Dec 10; Gaz. vol. 185; p. 361.
Pressure regulator, Steam-. W. Memmersheim. No. 1,013,199; Jan. 2; Sp. p. 224; Gaz. vol. 174; p. 38.
Pressure-resisting receptacle. J. Büttgen. No. 1,045,673; Nov. 26; Gaz. vol. 184; p. 1008.
Pressure-retaining device. G. O. Hammond and J. A. Barnes. No. 1,026,310; May 14; Sp. p. 2687; Gaz. vol. 178; p. 449.
Pressure-tank connection. L. Wolf. No. 1,026,066; May 14; Sp. p. 2163; Gaz. vol. 178; p. 365.
Pressure-transformer. W. H. Pearce. No. 1,019,913; Mar. 12; Sp. p. 1945; Gaz. vol. 176; p. 337.
Pressures, Equalizing. H. L. Doherty. No. 1,034,217; July 30; Gaz. vol. 180; p. 1301.
Pressures, Means for equalizing. H. L. Doherty. No. 1,034,348; July 30; Gaz. vol. 180; p. 1347.
Pretzel-iron. A. C. Burky. No. 1,034,581; Aug. 6; Gaz. vol. 181; p. 60.
Primary battery. R. V. Heuser. No. 1,015,734; Jan. 23; Sp. p. 5829; Gaz. vol. 174; p. 993.
Primary battery. R. V. Heuser. No. 1,015,735; Jan. 23; Sp. p. 5832; Gaz. vol. 174; p. 994.
Primary battery. W. A. F. Bleeck. No. 1,021,859; Apr. 2; Sp. p. 235; Gaz. vol. 177; p. 38.
Primary battery. Z. Szpor. No. 1,022,276; Apr. 2; Sp. p. 1096; Gaz. vol. 177; p. 176.
Primary battery. C. E. Hite. No. 1,024,577; Apr. 30; Sp. p. 6115; Gaz. vol. 177; p. 1082.
Primary battery. C. B. Schoenmehl. No. 1,028,614; June 4; Sp. p. 1197; Gaz. vol. 179; p. 183.
Primary battery. A. L. Saltzman. No. 1,036,344; Aug. 20; Gaz. vol. 181; p. 730.
Primary battery. C. B. Schoenmehl. No. 1,044,922; Nov. 19; Gaz. vol. 184; p. 715.
Primary cell. C. and B. Jaeger. No. 1,039,949; Oct. 1; Gaz. vol. 183; p. 92.
Prime mover. J. J. Kime. No. 1,033,418; July 23; Gaz. vol. 180; p. 1003.
Primer, Electric. H. W. Starkweather. No. 1,034,160; July 30; Gaz. vol. 180; p. 1281.
Priming device. J. L. Fischer. No. 1,026,740; May 21; Sp. p. 3628; Gaz. vol. 178; p. 631.
Priming mixture. W. H. Buell. No. 1,027,814; May 28; Sp. p. 5951; Gaz. vol. 178; p. 1033.
Priming mixture. H. C. Pritham. No. 1,048,207; Dec. 24; Gaz. vol. 185; p. 933.
Print and negative washing tank. F. W. Creech. No. 1,035,540; Aug. 13; Gaz. vol. 181; p. 416.
Print-drier. E. S. Krantz and J. W. Knuteson. No. 1,036,268; Aug. 20; Gaz. vol. 181; p. 704.
Prints, &c., Device for washing. W. G. Rounds. No. 1,025,206; May 7; Sp. p. 214; Gaz. vol. 178; p. 36.
Printed matter, Machine for treating. H. Levison. No. 1,043,324; Nov. 5; Gaz. vol. 184; p. 100.
Printed sheets, Drying-machine for. I. D. Hurlbut. No. 1,042,441; Oct. 29; Gaz. vol. 183; p. 1063
Printer and holder, Paper-roll. J. J. Sprinkle. No. 1,038,673; Sept. 17; Gaz. vol. 182; p. 574.
Printer for paper-rolls, Automatic. D. C. Lee. No. 1,041,494; Oct. 15; Gaz. vol. 183; p. 680.
Printer's galley for use with the mono or other type casting machines. A. H. Stockall. No. 1,038,018; Sept. 10; Gaz. vol. 182; p. 316.
Printer's chase-rack. A. F. Osterlind and G. S. Elmquist. No. 1,025,296; May 7; Sp. p. 405; Gaz. vol. 178; p. 67.
Printer's furniture. S. Stephens. No. 1,024,606; Apr. 30; Sp. p. 6189; Gaz. vol. 177; p. 1092.
Printers' galleys, Foot-lock for. F. J. Antelotti. No. 1,015,257; Jan. 16; Sp. p. 4771; Gaz. vol. 174; p. 803.
Printer's plate-hook. M. Hoge and J. W. Pitt. No. 1,043,105; Nov. 5; Gaz. vol. 184; p. 20.
Printer's register-hook. F. H. Berold, Jr. No. 1,030,864; July 2; Gaz. vol. 180; p. 5.
Printers' rules, Means for trimming burs from the cut ends of. C. F. Remington. No. 1,025,308; May 7; Sp. p. 441; Gaz. vol. 178; p. 71.
Printer's tie-up. J. S. Thompson. No. 1,042,292; Oct. 22; Gaz. vol. 183; p. 983.
Printing. A. O. Watkins. No. 1,025,495; May 7; Sp. p. 872; Gaz. vol. 178; p. 136.
Printing and addressing machine, Combined. C. M. Runyan. No. 1,025,926; May 7; Sp. p. 1824; Gaz. vol. 178; p. 282.
Printing and composition unit. A. L. Saltzman. No. 1,034,839; Aug. 6; Gaz. vol. 181; p. 147.
Printing and embossing in relief, Press for. F. Waite. No. 1,043,884; Nov. 12; Gaz. vol. 184; p. 326.
Printing and fare-recording apparatus, Transportable ticket-. H. Friedlein. No. 1,017,046; Feb. 13; Sp. p. 1814; Gaz. vol. 175; p. 315.
Printing and folding machinery, Associating mechanism for web. R. C. Annand. No. 1,040,256; Oct. 8; Gaz. vol. 183; p. 225.
Printing and numbering machine. F. Meisel. No. 1,034,637; Aug. 6; Gaz. vol. 181; p. 77.
Printing and other mechanism, Gripper for. F. G. Jahn. No. 1,018,059; Feb. 20; Sp. p. 4059; Gaz. vol. 175; p. 702.
Printing apparatus. A. B. Dick. No. 1,031,630; July 2; Gaz. vol. 180; p. 271.
Printing, Apparatus for melting and drying embossed. E. J. Smith. No. 1,025,594; May 7; Sp. p. 1094; Gaz. vol. 178; p. 170.
Printing appliance. J. P. Quiggan. No. 1,026,767; May 21; Sp. p. 3700; Gaz. vol. 178; p. 640.
Printing attachment for paper-roll holders. J. C. Parker. No. 1,035,384; Aug. 13; Gaz. vol. 181; p. 364.
Printing-block-molding machine. P. Bunau-Varilla. No. 1,020,023; Mar. 12; Sp. p. 2166; Gaz. vol. 176; p. 373.
Printing-chase. A. H. Wadewitz. No. 1,048,241; Dec. 24; Gaz. vol. 185; p. 942.

Alphabetical list of inventions—Continued.

Printing composition, Relief-. I. D. Hurlbut. No. 1,047,892; Dec. 17; Gaz. vol. 185; p. 800.
Printing-cylinder. W. H. Banzett. No. 1,049,195; Dec. 31; Gaz. vol. 185; p. 1309.
Printing device. J. S. Duncan. No. 1,015,757; Jan. 23; Sp. p. 5873; Gaz. vol. 174; p. 1001.
Printing device. J. S. Duncan. No. 1,015,758; Jan. 23; Sp. p. 5876; Gaz. vol. 174; p. 1002.
Printing device. J. S. Duncan. No. 1,026,244; May 14; Sp. p. 2554; Gaz. vol. 178; p. 427.
Printing device. J. S. Duncan. No 1,026,245; May 14; Sp. p. 2557; Gaz. vol. 178; p. 428.
Printing device. J. S. Duncan. No. 1,026,246; May 14; Sp. p. 2558; Gaz. vol. 178; p. 428.
Printing device. J. S. Duncan. No. 1,026,247; May 14; Sp. p. 2560; Gaz. vol. 178; p. 428.
Printing device. J. S. Duncan. No. 1,026,248; May 14; Sp. p. 2561; Gaz. vol. 178; p. 429.
Printing device. J. S. Duncan. No. 1,026,249; May 14; Sp. p. 2563; Gaz. vol. 178; p. 429.
Printing device. J. S. Duncan. No. 1,026,250; May 14; Sp. p. 2563; Gaz. vol. 178; p. 429.
Printing device. J. S. Duncan. No. 1,026,251; May 14; Sp. p. 2565; Gaz. vol. 178; p. 429.
Printing device. J. S. Duncan. No. 1,026,252; May 14; Sp. p. 2568; Gaz. vol. 178; p. 430.
Printing device. J. S. Duncan. No. 1,026,253; May 14; Sp. p. 2569; Gaz. vol. 178; p. 430.
Printing device. J. S. Duncan. No. 1,026,254; May 14; Sp. p. 2571; Gaz. vol. 178; p. 430.
Printing device. J. S. Duncan. No. 1,026,255; May 14; Sp. p. 2573; Gaz. vol. 178; p. 431.
Printing device. J. Ranz. No. 1,033,073; July 16; Gaz. vol. 180; p. 849.
Printing device. R. L. Boyd. No. 1,037,198; Sept. 3; Gaz. vol. 182; p. 7.
Printing device and making same. J. S. Duncan. No. 1,048,459; Dec. 24; Gaz. vol. 185; p. 1017.
Printing device, Enamel-. T. Lovendale. No. 1,023,160; Apr. 16; Sp. p. 3042; Gaz. vol. 177; p. 546.
Printing device, Intaglio and relief. H. A. W. Wood. No. 1,041,934; Oct. 22; Gaz. vol. 183; p. 867.
Printing-drum. G. F. Hutchins. No. 1,034,914; Aug. 6; Gaz. vol. 181; p. 171.
Printing engravings in intaglio, Apparatus for. A. Valentin, J. Zerreiss, and H. Georges. No. 1,023,773; Apr. 16; Sp. p. 4226; Gaz. vol. 177; p. 743.
Printing-frame. D. W. Faulk. No. 1,023,828; Apr. 23; Sp. p. 4398; Gaz. vol. 177; p. 790.
Printing-frame. G. Vinnemeier. No. 1,044,107; Nov. 12; Gaz. vol. 184; p. 403.
Printing from engraved plates. T. R. Demery. No. 1,025,250; May 7; Sp. p. 318; Gaz. vol. 178; p. 51.
Printing in colors, Apparatus for. W. M. Temple. No. 1,041,193; Oct. 15; Gaz. vol. 183; p. 580.
Printing-machine. A. R. Pribil. No. 1,014,175; Jan. 9; Sp. p. 2405; Gaz. vol. 174; p. 403.
Printing-machine. A. Valentin, J. Zerreiss, and H. Georges. No. 1,014,923; Jan. 16; Sp. p. 4093; Gaz. vol. 174; p. 691.
Printing-machine. A. J. Ware. No. 1,014,986; Jan. 16; Sp. p. 4232; Gaz. vol. 174; p. 712.
Printing-machine. G. H. Lang. No. 1,017,979; Feb. 20; Sp. p. 3894; Gaz. vol. 175; p. 674.
Printing-machine. T. Cossar. No. 1,020,190; Mar. 12; Sp. p. 2529; Gaz. vol. 176; p. 429.
Printing-machine. M. A. Lathey. No. 1,021,051; Mar. 26; Sp. p. 4347; Gaz. vol. 176; p. 807.
Printing-machine. W. Scott. No. 1,021,897; Apr. 2; Sp. p. 310; Gaz. vol 177; p. 51.
Printing-machine. W. Scott. No. 1,025,076; Apr. 30; Sp. p. 7138; Gaz. vol. 177; p. 1253.
Printing-machine. C. A. Sturtevant. No. 1,026,936; May 21; Sp. p. 4085; Gaz. vol. 178; p. 699.
Printing-machine. W. L. Green. No. 1,027,384; May 21; Sp. p. 5061; Gaz. vol. 178; p. 852.
Printing-machine. E. P. Sheldon. No. 1,028,913; June 11; Sp. p. 1835; Gaz. vol. 179; p. 319.
Printing-machine. S. O. Edmonds. No. 1,031,329; July 2; Gaz. vol. 180; p. 169.
Printing-machine. C. A. Blodgett. No. 1,031,906; July 9; Gaz. vol. 180; p. 409.
Printing-machine. L. E. Morrison. No. 1,033,445; July 23; Gaz. vol. 180; p. 1011.
Printing-machine. J. F. Mehlstedt. No. 1,041,314; Oct. 15; Gaz. vol. 183; p. 621.
Printing-machine. E. Duscher. No. 1,043,911; Nov. 12; Gaz. vol. 184; p. 335.
Printing-machine. W. A. Sorg. No. 1,044,095; Nov. 12; Gaz. vol. 184; p. 399.
Printing-machine. W. A. Sorg and E. Duscher. No. 1,044,097; Nov. 12; Gaz. vol. 184; p. 400.
Printing-machine. A. J. McCauley. No. 1,045,722; Nov. 26; Gaz. vol. 184; p. 1025.
Printing-machine. J. H. Hastings. No. 1,045,787; Nov. 26; Gaz. vol. 184; p. 1046.
Printing machine, Address-. J. B. Allen. No. 1,048,121; Dec. 24; Gaz. vol. 185; p. 904.
Printing machine, Bank-check-. M. L. Dodge. No. 1,014,954; Jan. 16; Sp. p. 4168; Gaz. vol. 174; p. 701.
Printing machine, Blue-. F. F. Metzger. No. 1,022,039; Apr. 2; Sp. p. 61[illegible]; Gaz. vol. 177; p. 97.
Printing machine, Box-. W. O. Garber and F. J. Cline. No. 1,033,390; July 23; Gaz. vol. 180; p. 994.
Printing machine, Check-. E. D. Huxford. No. 1,030,889; July 2; Gaz. vol. 180; p. 14.
Printing machine, Embroidery-. R. Walser. No. 1,018,948; Feb. 27; Sp. p. 6009; Gaz. vol. 175; p. 1036.
Printing-machine equalizing device. P. E. Preschlin. No. 1,044,242; Nov. 12; Gaz. vol. 184; p. 449.
Printing-machine gripper mechanism. E. W. Cooper. No. 1,015,873; Jan. 30; Sp. p. 6118; Gaz. vol. 174; p. 1067.
Printing-machine ink-roll-operating mechanism. J. J. Halliwell. No. 1,018,758; Feb. 27; Sp. p. 5629; Gaz. vol. 175; p. 973.
Printing-machine inking attachment. H. C. Gammeter. No. 1,047,626; Dec. 17; Gaz. vol. 185; p. 708.
Printing-machine, Multicouple multirevolution. W. Scott. No. 1,040,783; Oct. 8; Gaz. vol. 183; p. 409.
Printing machine, Multiple-color tube-. G. H. Neidlinger. No. 1,033,824; July 30; Gaz. vol. 180; p. 1163.
Printing-machine, Multirevolution. W. Scott. No. 1,022,604; Apr. 9; Sp. p. 1797; Gaz. vol. 177; p. 315.
Printing machine, Pencil-. T. R. Owen. No. 1,028,381; June 4; Sp. p. 692; Gaz. vol. 179; p. 105.
Printing machine, Plate-. G. H. Kendall. No. 1,040,691; Oct. 8; Gaz. vol. 183; p. 381.
Printing machine, Proof-. R. O. Vandercook. No. 1,042,848; Oct. 29; Gaz. vol. 183; p. 1205.
Printing-machine ribbon-inking mechanism. J. S. Duncan. No. 1,031,541; July 2; Gaz. vol. 180; p. 240.
Printing-machine, Rotary. B. O. Fanslow. No. 1,016,682; Feb. 6; Sp. p. 1021; Gaz. vol. 175; p. 155.
Printing-machine, Rotary. S. J. O. Asmussen. No. 1,018,151; Feb. 20; Sp. p. 4276; Gaz. vol. 175; p. 734.
Printing-machine, Rotary. M. R. Bunting, J. Muldoon, and L. S. Springer. No. 1,029,847; June 18; Sp. p. 3889; Gaz. vol. 179; p. 677.
Printing machine, Silk-. R. Pagliabue. No. 1,042,029; Oct. 22; Gaz. vol. 183; p. 898.
Printing machine, Ticket-. J. White. No. 1,019,107; Mar. 5; Sp. p. 217; Gaz. vol. 176; p. 34.
Printing machine, Wrapping-paper-. S. H. Pine and L. Schneider. No. 1,030,533; June 25; Sp. p. 5445; Gaz. vol. 179; p. 956.
Printing-machines, Offset mechanism for. O. Roesen. No. 1,041,875; Oct. 22; Gaz. vol. 183; p. 847.
Printing machinery, Bag and envelop. J. Hariel. No. 1,013,160; Jan. 2; Sp. p. 143; Gaz. vol. 174; p. 25.
Printing mechanism. F. G. Jahn. No. 1,018,060; Feb. 20; Sp. p. 4064; Gaz. vol. 175; p. 702.
Printing mechanism. A. H. Bates. No. 1,021,858; Apr. 2; Sp. p. 231; Gaz. vol. 177; p. 38.
Printing mechanism. H. C. Osborn. No. 1,044,907; Nov. 19; Gaz. vol. 184; p. 709.
Printing mechanism, Clock-set. C. A. Melchert. No. 1,014,017; Jan. 9; Sp. p. 2079; Gaz. vol. 174; p. 349.
Printing mechanism for vending-machines. R. B. Craig and A. Coffman. No. 1,035,084; Aug. 6; Gaz. vol. 181; p. 227.
Printing on wrapping-paper, Device for. W. W. Hesson. No. 1,025,137; May 7; Sp. p. 58; Gaz. vol. 178; p. 11.
Printing-plate-alining gage. K. M. and F. Schlueter, Jr. No. 1,013,621; Jan. 2; Sp. p. 1150; Gaz. vol. 174; p. 183.
Printing-plate base. M. Hoge and P. C. Riebe. No. 1,028,821; June 4; Sp. p. 1616; Gaz. vol. 179; p. 252.
Printing-plate base. M. Hoge and P. C. Riebe. No. 1,031,267; July 2; Gaz. vol. 180; p. 148.
Printing-plate base. C. S. Mills. No. 1,031,803; July 9; Gaz. vol. 180; p. 374.
Printing-plate, &c., registering device. J. J. Franceschini. No. 1,034,606; Aug. 6; Gaz. vol. 181; p. 67.
Printing-plates, Device for finishing stereotype. A. Egli, No. 1,042,208; Oct. 22; Gaz. vol. 183; p. 956.
Printing-plates, Hot bending-machine for the treatment of. M. A. McKee. No. 1,043,334; Nov. 5; Gaz. vol. 184; p. 103.
Printing-plates in a grained manner, Preparing. H. Strecker-Aufermann. No. 1,014,740; Jan. 16; Sp. p. 3676; Gaz. vol. 174; p. 628.
Printing-plates, Making. C. W. Lutterman. No. 1,044,793; Nov. 19; Gaz. vol. 184; p. 672.
Printing-plates, Mold for casting and finishing rotary. A. Egli. No. 1,048,667; Dec. 31; Gaz. vol. 185; p. 1129.
Printing-plates of metal, Etching fluid for flat. O. C. Strecker. No. 1,022,274; Apr. 2; Sp. p. 1093; Gaz. vol. 177; p. 175.
Printing-plates, Preparation of. M. Ullmann. No. 1,034,745; Aug. 6; Gaz. vol. 181; p. 115.
Printing-plates, Preparing. G. H. Lund. No. 1,015,900; Jan. 30; Sp. p. 6179; Gaz. vol. 174; p. 1078.
Printing-plates, Producing. W. Fritsche. No. 1,032,890; July 16; Gaz. vol. 180; p. 787.
Printing plates, Production of lithographic-. L. Bassani. No. 1,029,337; June 11; Sp. p. 2763; Gaz. vol. 179; p. 466.
Printing-plates with silver-salt gelatin emulsion, Obtaining metal. P. Schumacher. No. 1,042,827; Oct. 29; Gaz. vol. 183; p. 1199.

Printing-press. J. Raich. No. 1,016,033; Jan. 30; Sp. p. 6466; Gaz. vol. 174; p. 1125.
Printing-press. B. F. Upham. No. 1,016,659; Feb. 6; Sp. p. 976; Gaz. vol. 175; p. 148.
Printing-press. J. F. Mahlstedt. No. 1,016,756; Feb. 6; Sp. p. 1167; Gaz. vol. 175; p. 180.
Printing-press. G. P. Fenner. No. 1,017,523; Feb. 13; Sp. p. 2853; Gaz. vol. 175; p. 481.
Printing-press. W. H. Smith. No. 1,019,197; Mar. 5; Sp. p. 423; Gaz. vol. 176; p. 67.
Printing-press. F. B. La Barr. No. 1,021,050; Mar. 26; Sp. p. 4345; Gaz. vol. 176; p. 806.
Printing-press. R. D. Coy. No. 1,022,406; Apr. 9; Sp. p. 1363; Gaz. vol. 177; p. 250.
Printing-press. J. L. Firm. No. 1,024,473; Apr. 23; Sp. p. 5814; Gaz. vol. 177; p. 1010.
Printing-press. K. F. Kirkman. No. 1,025,194; May 7; Sp. p. 184; Gaz. vol. 178; p. 32.
Printing-press. J. L. Firm. No. 1,025,257; May 7; Sp. p. 328; Gaz. vol. 178; p. 53.
Printing-press. J. L. Firm. No. 1,025,258; May 7; Sp. p. 331; Gaz. vol. 178; p. 54.
Printing-press. W. A. Sullivan. No. 1,025,429; May 7; Sp. p. 703; Gaz. vol. 178; p. 112.
Printing-press. J. White. No. 1,025,894; May 7; Sp. p. 1762; Gaz. vol. 178; p. 271.
Printing-press. C. A. Sturtevant. No. 1,026,934; May 21; Sp. p. 4067; Gaz. vol. 178; p. 698.
Printing-press. C. A. Sturtevant. No. 1,026,935; May 21; Sp. p. 4079; Gaz. vol. 178; p. 698.
Printing-press. P. F. Cox. No. 1,027,526; May 28; Sp. p. 5349; Gaz. vol. 178; p. 937.
Printing-press. G. E. Pancoast. No. 1,028,485; June 4; Sp. p. 933; Gaz. vol. 179; p. 140.
Printing-press. W. F. C. Foster. No. 1,029,434; June 11; Sp. p. 2978; Gaz. vol. 179; p. 499.
Printing-press. K. F. Kirkman. No. 1,031,344; July 2; Gaz. vol. 180; p. 174.
Printing-press. K. F. Kirkman. No. 1,031,345; July 2; Gaz. vol. 180; p. 175.
Printing-press. W. M. Clark. No. 1,034,083; July 30; Gaz. vol. 180; p. 1255.
Printing-press. W. M. Clark. No. 1,038,088; Sept. 10; Gaz. vol. 182; p. 338.
Printing-press. W. H. Smith. No. 1,040,448; Oct. 8; Gaz. vol. 183; p. 290.
Printing-press. A. T. H. Brower. No. 1,040,501; Oct. 8; Gaz. vol. 183; p. 309.
Printing-press. W. A. Sorg. No. 1,044,094; Nov. 12; Gaz. vol. 184; p. 399.
Printing-press. V. J. Olszewski. No. 1,046,217; Dec. 3; Gaz. vol. 185; p. 145.
Printing-press. L. M. Pier and M. H. Foster. No. 1,048,094; Dec. 24; Gaz. vol. 185; p. 895.
Printing-press. W. P. Allen and L. Schlesinger. No. 1,048,476; Dec. 31; Gaz. vol. 185; p. 1061.
Printing-press and sheet-manipulating mechanism therefor. H. A. W. Wood. No. 1,042,518; Oct. 29; Gaz. vol. 183; p. 1091.
Printing-press appliance. J. E. Doyle. No. 1,043,812; Nov. 12; Gaz. vol. 184; p. 300.
Printing-press attachment. E. G. Robb. No. 1,026,606; May 14; Sp. p. 3313; Gaz. vol. 178; p. 547.
Printing-press attachment. F. Roberts. No. 1,033,940; July 30; Gaz. vol. 180; p. 1204.
Printing-press automatic trip mechanism. A. J. Ford. No. 1,034,776; Aug. 6; Gaz. vol. 181; p. 126.
Printing-press bearer. G. E. Brannberg. No. 1,033,528; July 23; Gaz. vol. 180; p. 1039.
Printing-press, Bed-and-cylinder. A. T. H. Brower. No. 1,029,100; June 11; Sp. p. 2244; Gaz. vol. 179; p. 383.
Printing-press bed-motion. M. A. Droitcour. No. 1,032,126; July 9; Gaz. vol. 180; p. 481.
Printing-press bed-motion. H. M. Barber. No. 1,033,370; July 23; Gaz. vol. 180; p 988.
Printing-press bed-movement. H. E. Goldberg. No. 1,048,681; Dec. 31; Gaz. vol. 185; p. 1134.
Printing-press color-printing attachment. A. P. Brooks and C. N. Galland. No. 1,040,268; Oct. 8; Gaz. vol. 183; p. 229.
Printing-press counter, Platen-. A. J. Hood. No. 1,014,476; Jan. 9; Sp. p. 3056; Gaz. vol. 174; p. 507.
Printing-press cutting mechanism. P. Martin. No. 1,042,936; Oct. 29; Gaz. vol. 183; p. 1236.
Printing-press, Cylinder. J. H. Barr. (Reissue.) No. 13,469; Oct. 1; Gaz. vol. 183; p. 196.
Printing-press dampening mechanism. W. H. Smith. No. 1,029,239; June 11; Sp. p. 2539; Gaz. vol. 179; p. 430.
Printing-press delivering attachment. J. M. Pierce. No. 1,017,999; Feb. 20; Sp. p. 3933; Gaz. vol. 175; p. 680.
Printing-press, Die. H. B. Croker. No. 1,028,191; June 4; Sp. p. 299; Gaz. vol. 179; p. 39.
Printing-press feed-guide. W. F. Brewer and A. Knobel. No. 1,038,487; Sept. 10; Gaz. vol. 182; p. 475.
Printing-press feeding attachment. W. S. Brown. No. 1,034,972; Aug. 6; Gaz. vol. 181; p. 191.
Printing-press gripper. O. Van der Meersch. No. 1,031,746; July 9; Gaz. vol. 180; p. 354.
Printing-press ink-distributing roller. W. Dietrich. No. 1,040,170; Oct. 1; Gaz. vol. 183; p. 167.
Printing-press ink-roll. H. P. Elliott. No. 1,036,200; Aug. 20; Gaz. vol. 181; p. 680.
Printing-press ink-roll. S. Elliott. No. 1,036,201; Aug. 20; Gaz. vol. 181; p. 680.
Printing-press inking apparatus. R. T. Johnston. No. 1,027,853; May 28; Sp. p. 6072; Gaz. vol. 178; p. 1047.
Printing-press inking apparatus. W. K. Hodgman. No. 1,030,403; June 25; Sp. p. 5107; Gaz. vol. 179; p. 910.
Printing-press inking attachment. J. J. Zeitz. No. 1,031,311; July 2; Gaz. vol. 180; p. 163.
Printing-press inking mechanism. S. Elliott. No. 1,036,202; Aug. 20; Gaz. vol. 181; p. 681.
Printing-press inking mechanism, Flat-bed sheet-. B. F. Upham. No. 1,046,904; Dec. 10; Gaz. vol. 185; p. 423.
Printing press, Multicolor-. R. Miehle. No. 1,039,777; Oct. 1; Gaz. vol. 183; p. 37.
Printing-press numbering attachment. C. W. Kuen. No. 1,021,466; Mar. 26; Sp. p. 5259; Gaz. vol. 176; p. 948.
Printing-press punch. I. C. Whitman. No. 1,029,481; June 11; Sp. p. 3068; Gaz. vol. 179; p. 514.
Printing press roll-holder. A. A. Henzi. No. 1,028,213; June 4; Sp. p. 344; Gaz. vol. 179; p. 47.
Printing-press roller-socket. W. Evensen. No. 1,016,486; Feb. 6; Sp. p. 570; Gaz. vol. 175; p. 88.
Printing press, Rotary cardboard and paper. C. Reynolds. No. 1,013,516; Jan. 2; Sp. p. 926; Gaz. vol. 174; p. 149.
Printing-press, Rotary offset. H. Pearce and T. R. G. Parker. No. 1,031,288; July 2; Gaz. vol. 180; p. 155.
Printing-press safety device, Platen-. M. Rockstroh. No. 1,018,005; Feb. 20; Sp. p. 3943; Gaz. vol. 175; p. 682.
Printing-press sheet-assembling mechanism. H. C. Schroeder. No. 1,048,746; Dec. 31; Gaz. vol. 185; p. 1155.
Printing-press sheet-carrier. A. I. Peno. No. 1,031,465; July 2; Gaz. vol. 180; p. 215.
Printing press, Sheet-fed intaglio-. H. A. W. Wood. No. 1,048,625; Dec. 31; Gaz. vol. 185; p. 1112.
Printing-press sheet-feeding mechanism. F. J. Eberle. No. 1,018,815; Feb. 27; Sp. p. 5750; Gaz. vol. 175; p. 992.
Printing-press sheet-feeding mechanism. F. Westerbeck. No. 1,029,159; June 11; Sp. p. 2362; Gaz. vol. 179; p. 403.
Printing-press sheet-feeding mechanism. C. M. Kneppler. No. 1,041,302; Oct. 15; Gaz. vol. 183; p. 617.
Printing-press sheet-feeding mechanism. C. M. Kneppler. No. 1,044,665; Nov. 19; Gaz. vol. 184; p. 626.
Printing-press sheet-registering device. H. Honigmann. No. 1,029,445; June 11; Sp. p. 2999; Gaz. vol. 179; p. 502.
Printing-press slip-sheet-feeding device. H. M. Barber. No. 1,027,516; May 28; Sp. p. 5332; Gaz. vol. 178; p. 934.
Printing-press slip-sheet-feeding device. H. M. Barber. No. 1,027,582; May 28; Sp. p. 5474; Gaz. vol. 178; p. 957.
Printing press, Tip-. M. Lindeman. No. 1,042,014; Oct. 22; Gaz. vol. 183; p. 893.
Printing-presses, Adjustable support for inking-rollers of. C. H. Brett. No. 1,030,712; June 25; Sp. p. 5988; Gaz. vol. 179; p. 1021.
Printing-presses, Blanket-clamping means for offset. A. J. Ford. No. 1,043,819; Nov. 12; Gaz. vol. 184; p. 303.
Printing-presses, Counting attachment for. W. J. Ramsaier. No. 1,028,905; June 11; Sp. p. 1821; Gaz. vol. 179; p. 316.
Printing-presses, Impression mechanism for. W. K. Hodgman. No. 1,019,253; Mar. 5; Sp. p. 540; Gaz. vol. 176; p. 86.
Printing-presses, Means for treating paper on. C. H. Mortimer. No. 1,037,965; Sept. 10; Gaz. vol. 182; p. 299.
Printing-presses, Paper-feed attachment for under-surface. W. H. Voorhees. No. 1,026,938; May 21; Sp. p. 4103; Gaz. vol. 178; p. 700.
Printing-presses, Plate-clamping mechanism for. W. Evensen. No. 1,028,340; June 4; Sp. p. 594; Gaz. vol. 179; p. 90.
Printing-presses, Sheet adjuster and guide for. W. F. C. Tichborne. No. 1,014,269; Jan. 9; Sp. p. 2617; Gaz. vol. 174; p. 437.
Printing, Relief. I. D. Hurlbut. No. 1,047,640; Dec. 17; Gaz. vol. 185; p. 712.
Printing-roll. H. Wollheim. No. 1,014,110; Jan. 9; Sp. p. 2285; Gaz. vol. 174; p. 381.
Printing-roll. R. H. Bremer. No. 1,025,779; May 7; Sp. p. 1469; Gaz. vol. 178; p. 232.
Printing-rollers, Machine for making metallic. J. W. Ippers. No. 1,046,792; Dec. 10; Gaz. vol. 185; p. 387.
Printing-surfaces, Bending. B. F. Upham. No. 1,038,991; Sept. 17; Gaz. vol. 182; p. 683.
Printing-surfaces for lithographic or aluminum printing, Production of intaglio. W. J. R. Bartlett. No. 1,038,266; Sept. 10; Gaz. vol. 182; p. 398.
Printing-surfaces, Holder for. P. Martin. No. 1,022,323; Apr. 2; Sp. p. 1188; Gaz. vol. 177; p. 191.
Printing-surfaces, Means and process for producing intaglio. W. J. R. Bartlett. No. 1,028,177; June 4; Sp. p. 276; Gaz. vol. 179; p. 34.
Printing-surfaces, Producing. W. J. Yeoell. No. 1,034,329; July 30; Gaz. vol. 180; p. 1340.

Alphabetical list of inventions—Continued.

Printing-surfaces, Retaining device for. H. C. Osborn. No. 1,031,661; July 2; Gaz. vol. 180; p. 282.
Printing, Transfer-. C. A. McKerrow. No. 1,030,908; July 2; Gaz. vol. 180; p. 20.
Printing upon warps, Machine for. O. Hallensleben. No. 1,042,786; Oct. 29; Gaz. vol. 183; p. 1185.
Printing-wheel and ink-fountains. E. W. Dodge. No. 1,018,886; Feb. 27; Sp. p. 5888; Gaz. vol. 175; p. 1015.
Products obtainable from 4.6-diamino-1.3-xylene and making same. M. T. Bogert. No. 1,032,734; July 16; Gaz. vol. 180; p. 736.
Program-holder. J. H. Minor. No. 1,049,311; Dec. 31; Gaz. vol. 185; p. 1350.
Projectile. J. B. Semple. (Reissue.) No. 13,406; Apr. 16; Sp. p. 4264; Gaz. vol. 177; p. 749.
Projectile. O. A. Yingling. No. 1,027,964; May 28; Sp. p. 6310; Gaz. vol. 178; p. 1084.
Projectile. J. H. Brown. No. 1,031,320; July 2; Gaz. vol. 180; p. 166.
Projectile. E. Friedrick. No. 1,040,924; Oct. 8; Gaz. vol. 183; p. 454.
Projectile. R. A. Tute. No. 1,042,504; Oct. 29; Gaz. vol. 183; p. 1086.
Projectile. H. Stanbridge. No. 1,043,547; Nov. 5; Gaz. vol. 184; p. 180.
Projectile. A. Bureau. No. 1,045,671; Nov. 26; Gaz. vol. 184; p. 1007.
Projectile. R. H. Quisling. No. 1,049,144; Dec. 31; Gaz. vol. 185; p. 1293.
Projectile and firing the same. R. Pompili. No. 1,044,075; Nov. 19; Gaz. vol. 184; p. 768.
Projectile, Artillery-. K. Voller. No. 1,039,850; Oct. 1; Gaz. vol. 183; p. 61.
Projectile, Artillery-. K. Völler. No. 1,042,176; Oct. 22; Gaz. vol. 183; p. 946.
Projectile-caps, Means for securing. T. Dixon. No. 1,027,243; May 21; Sp. p. 4777; Gaz. vol. 178; p. 804.
Projectile, Explosive. F. I. Du Pont. No. 1,015,943; Jan. 30; Sp. p. 6270; Gaz. vol. 174; p. 1091.
Projectile, Explosive. F. I. Du Pont. No. 1,015,944; Jan. 30; Sp. p. 6271; Gaz. vol. 174; p. 1092.
Projectile, Explosive. F. I. Du Pont. No. 1,015,945; Jan. 30; Sp. p. 6274; Gaz. vol. 174; p. 1092.
Projectile, Explosive. E. Schneider. No. 1,039,199; Sept. 24; Gaz. vol. 182; p. 769.
Projectile for firing at airships. K. Wieser and W. Schwartz. No. 1,025,500; May 7; Sp. p. 882; Gaz. vol. 178; p. 137.
Projectile lifting and transporting apparatus. J. A. Essberger. No. 1,047,773; Dec. 17; Gaz. vol. 185; p. 759.
Projectile-loading for scattering charges. E. Sokolowski. No. 1,015,215; Jan. 16; Sp. p. 4671; Gaz. vol. 174; p. 789.
Projectile, Lubricating-. A. W. Melander. No. 1,039,774; Oct. 1; Gaz. vol. 183; p. 36.
Projectile, Ordnance-. H. Stanbridge. No. 1,029,517; June 11; Sp. p. 3134; Gaz. vol. 179; p. 525.
Projectiles, Grab for lifting. R. H. S. Bacon and F. W. H. Shepherd. No. 1,045,804; Dec. 3; Gaz. vol. 185; p. 3.
Projectiles, Placing containers in. E. Sokolowski. No. 1,039,204; Sept. 24; Gaz. vol. 182; p. 771.
Projectiles, Placing containers in. E. Sokolowski. No. 1,039,459; Sept. 24; Gaz. vol. 182; p. 861.
Projectiles, Trajectory-regulator for. C. Davis. No. 1,043,074; Nov. 5; Gaz. vol. 184; p. 9.
Projecting apparatus. H. F. Patton. No. 1,024,356; Apr. 23; Sp. p. 5536; Gaz. vol. 177; p. 970.
Projecting apparatus. A. G. Previn. No. 1,034,833; Aug. 6; Gaz. vol. 181; p. 145.
Projecting device. A. J. Stevens. No. 1,027,448; May 28; Sp. p. 5198; Gaz. vol. 178; p. 911.
Projection and photography lens. C. and H. C. Beck. No. 1,035,408; Aug. 13; Gaz. vol. 181; p. 372.
Projection apparatus. E. W. Goodrich. No. 1,038,349; Sept. 10; Gaz. vol. 182; p. 425.
Projection apparatus, Slide-carrier for. E. W. Goodrich. No. 1,035,872; Aug. 20; Gaz. vol. 181; p. 565.
Projection-screens, Manufacture of. A. O. Buechner. No. 1,044,135; Nov. 12; Gaz. vol. 184; p. 412.
Projectoscope. C. A. Walhof. No. 1,028,803; June 4; Sp. p. 1576; Gaz. vol. 179; p. 246.
Proof-press. B. N. Scott. No. 1,032,510; July 16; Gaz. vol. 180; p. 657.
Proofing-machine. G. J. Hicks. No. 1,025,914; May 7; Sp. p. 1802; Gaz. vol. 178; p. 278.
Propeller. G. W. Kingsbury. No. 1,013,402; Jan. 2; Sp. p. 690; Gaz. vol. 174; p. 109.
Propeller. H. L. Call. No. 1,014,619; Jan. 9; Sp p. 3346; Gaz. vol 174; p. 555.
Propeller. H. M. Svebilius. No. 1,017,820; Feb. 20; Sp. p. 3512; Gaz. vol. 175; p. 617.
Propeller. W. Deutscher. No. 1,018,237; Feb. 20; Sp. p. 4446; Gaz. vol. 175; p. 763.
Propeller. J. F. Nettle. No. 1,022,203; Apr. 2; Sp. p. 957; Gaz. vol. 177; p. 153.
Propeller. J. A. Irving. No. 1,022,846; Apr. 9; Sp. p. 2343; Gaz. vol. 177; p. 400.
Propeller. G. G. Bower. No. 1,023,501; Apr. 16; Sp. p. 3719; Gaz. vol. 177; p. 658.
Propeller. B. W. Scott. No. 1,024,032; Apr. 23; Sp. p. 4845; Gaz. vol. 177; p. 859.
Propeller. C. H. Johnson. No. 1,024,339; Apr. 23; Sp. p. 5507; Gaz. vol. 177; p. 965.
Propeller. J. L. Rikhoff. No. 1,024,700; Apr. 30; Sp. p. 6385; Gaz. vol. 177; p. 1125.
Propeller. A. Holmström. No. 1,025,399; May 7; Sp. p. 651; Gaz. vol. 178; p. 102.
Propeller. E. B. Desenberg and E. S. Pilsworth. No. 1,028,333; June 4; Sp. p. 583; Gaz. vol. 179; p. 87.
Propeller. B. S. Ames. No. 1,030,047; June 18; Sp. p. 4321; Gaz. vol. 179; p. 746.
Propeller. J. R. Liston. No. 1,030,900; July 2; Gaz. vol. 180; p. 17.
Propeller. W. R. Boutwell. No. 1,031,415; July 2; Gaz. vol. 180; p. 199.
Propeller. A. C. de los Rios. No. 1,031,629; July 2; Gaz. vol. 180; p. 271.
Propeller. D. H. Blake. No. 1,033,662; July 23; Gaz. vol. 180; p. 1083.
Propeller. C. R. Haas. No. 1,036,834; Aug. 27; Gaz. vol. 181; p. 928.
Propeller. C. J. Low. No. 1,041,825; Oct. 22; Gaz. vol. 183; p. 829.
Propeller. C. E. J. de Vallat. No. 1,042,506; Oct. 29; Gaz. vol. 183; p. 1086.
Propeller. L. R. Fulda. No. 1,044,371; Nov. 12; Gaz. vol. 184; p. 493.
Propeller, Adjustable. F. Harlow. No. 1,019,635; Mar. 5; Sp. p. 1390; Gaz. vol. 176; p. 212.
Propeller, Aerial. J. R. Tyson. No. 1,041,913; Oct. 22; Gaz. vol. 183; p. 859.
Propeller and manufacture of the same, Screw-. S. Heath. No. 1,043,830; Nov. 12; Gaz. vol. 184; p. 306.
Propeller and means of producing the same, Helicoidal. F. Favata. No. 1,034,773; Aug. 6; Gaz. vol. 181; p. 125.
Propeller apparatus for boats. A. Oppenheimer. No. 1,028,265; June 4; Sp. p. 443; Gaz. vol. 179; p. 64.
Propeller, Automatic. R. E. Kellogg. No. 1,036,122; Aug. 20; Gaz. vol. 181; p. 651.
Propeller, Boat-. C. H. Reames. No. 1,032,426; July 16; Gaz. vol. 180; p. 630.
Propeller, Boat-. C. V. Shillinger. No. 1,047,999; Dec. 24; Gaz. vol. 185; p. 862.
Propeller, Endless-belt. O. A. A. Petersen. No. 1,014,512; Jan. 9; Sp. p. 3121; Gaz. vol. 174; p. 519.
Propeller, Feathering. A. M. Akerman. No. 1,047,872; Dec. 17; Gaz. vol. 185; p. 793.
Propeller, Hydraulic. J. F. Struble. No. 1,024,376; Apr. 23; Sp. p. 5566; Gaz. vol. 177; p. 976.
Propeller, Marine. J. R. Tyson. No. 1,041,912; Oct. 22; Gaz. vol. 183; p. 859.
Propeller mechanism. A. Ahlbrecht. No. 1,028,093; June 4; Sp. p. 1; Gaz. vol. 179; p. 3.
Propeller, Screw-. C. Bütow. No. 1,015,540; Jan. 23; Sp. p. 5402; Gaz. vol. 174; p. 925.
Propeller, Screw-. C. H. Draper. No. 1,019,437; Mar. 5; Sp. p. 1002; Gaz. vol. 176; p. 147.
Propeller, Screw-. J. Leopold. No. 1,019,498; Mar. 5; Sp. p. 1140; Gaz. vol. 176; p. 167.
Propeller, Screw-. F. Broussouse. No. 1,021,822; Apr. 2; Sp. p. 158; Gaz. vol. 177; p. 26.
Propeller, Screw-. A. Mühlberg. No. 1,023,584; Apr. 16; Sp. p. 3891; Gaz. vol. 177; p. 685.
Propeller, Screw-. J. Kobus. No. 1,029,694; June 18; Sp. p. 3522; Gaz. vol. 179; p. 625.
Propeller, Screw-. O. G. Halvorsen. No. 1,031,545; July 2; Gaz. vol. 180; p. 242.
Propeller, Screw-. J. W. Gunther. No. 1,035,003; Aug. 6; Gaz. vol. 181; p. 201.
Propeller, Ship-. G. A. Schlotter. (Reissue.) No. 13,349; Jan. 2; Sp. p. 1699; Gaz. vol. 174; p. 268.
Propeller-wheel. J. F. Arnold. No. 1,029,907; June 18; Sp. p. 4022; Gaz. vol. 179; p. 699.
Propeller-wheel, Feathering. A. S. Frazier. No. 1,020,274; Mar. 12; Sp. p. 2699; Gaz. vol. 176; p. 457.
Propeller-wheels, Vane for. J. W. Way. No. 1,014,730; Jan. 16; Sp. p. 3654; Gaz. vol. 174; p. 624.
Propeller with open center, Screw-. A. J. M. de Villethiou. No. 1,025,658; May 7; Sp. p. 1233; Gaz. vol. 178; p. 190.
Propellers, Shaping-machine for screw-. A. Mühlberg. No. 1,021,941; Apr. 2; Sp. p. 392; Gaz. vol. 177; p. 65.
Propelling boats. J. H. Cooper. No. 1,046,376; Dec. 3; Gaz. vol. 185; p. 201.
Propelling device for land and water. M. Rochat. No. 1,013,818; Jan. 2; Sp. p. 1585; Gaz. vol. 174; p. 253.
Propelling device for water and air vessels. C. W. Van Deursen. No. 1,029,776; June 18; Sp. p. 3704; Gaz. vol. 179; p. 653.
Propelling mechanism. G. Williamson. No. 1,014,195; Jan. 9; Sp. p. 2447; Gaz. vol. 174; p. 411.
Propelling mechanism, Boat-. J. G. Ducassou. No. 1,034,987; Aug. 6; Gaz. vol. 181; p. 196.
Propelling mechanism for vessels. E. A. Graves. No. 1,023,515; Apr. 16; Sp. p. 3752; Gaz. vol. 177; p. 663.
Propelling mechanism, Pneumatic. T. W. Black. No. 1,030,966; July 2; Gaz. vol. 180; p. 40.
Proportional meter. H. P. Westcott. No. 1,045,229; Nov. 26; Gaz. vol. 184; p. 850.
Propulsion, Boat. J. R. Walter. No. 1,022,989; Apr. 9; Sp. p. 2635; Gaz. vol. 177; p. 449.

Alphabetical list of inventions—Continued.

Propulsion for vessels, Water-current. F. Jensen. No. 1,023,205; Apr. 16; Sp. p. 3140; Gaz. vol. 177; p. 562.
Propulsion, Marine. J. Benyo. No. 1,013,982; Jan. 9; Sp. p. 2000; Gaz. vol. 174; p. 339.
Propulsion, Marine. P. Peterson. No. 1,047,562; Dec. 17; Gaz. vol. 185; p. 685.
Propulsion of vessels. G. D. Goodrich. No. 1,044,164; Nov. 12; Gaz. vol. 184; p. 421.
Propulsion of vessels, Turbo-electric. E. Thomson. No. 1,047,858; Dec. 17; Gaz. vol. 185; p. 788.
Propulsion, Turbo-electric ship. E. Thomson. No. 1,047,593; Dec. 17; Gaz. vol. 185; p. 696.
Protecting the members of a court assembly, Device for. R. Lux. No. 1,016,164; Jan. 30; Sp. p. 6725; Gaz. vol. 174; p. 1169.
Protective device. A. G. Jones. No. 1,024,857; Apr. 30; Sp. p. 6710; Gaz. vol. 177; p. 1181.
Protector-inserting machine. G. A. Ambler. No. 1,030,760; June 25; Sp. p. 6100; Gaz. vol. 179; p. 1037.
Protector or goggles. J. W. Leasure. No. 1,020,994; Mar. 26; Sp. p. 4233; Gaz. vol. 176; p. 786.
Protector-setting machine. B. J. Conlon. No. 1,015,543; Jan. 23; Sp. p. 5406; Gaz. vol. 174; p. 926.
Protein from insoluble protein matter, Production of. S. A. Vasey. No. 1,015,857; Jan. 30; Sp. p. 6088; Gaz. vol. 174; p. 1061.
Proteins soluble, Rendering vegetable. H. Walland. No. 1,016,115; Jan. 30; Sp. p. 6638; Gaz. vol. 174; p. 1154.
Protractor, Adjustable arm-. H. B. Hill. No. 1,023,738; Apr. 16; Sp. p. 4166; Gaz. vol. 177; p. 731.
Protractor, Bevel-. W. W. Owen. No. 1,015,242; Jan. 16; Sp. p. 4733; Gaz. vol. 174; p. 798.
Protractor. Combination bevel-. J. La Follette. No. 1,028,742; June 4; Sp. p. 1460; Gaz. vol. 179; p. 225.
Protractor-triangle. R. F. Allin. No. 1,046,365; Dec. 3; Gaz. vol. 185; p. 197.
Provision-chopper. W. Ritschard. No. 1,031,873; July 9; Gaz. vol. 180; p. 399.
Pruner, Hedge-. E. Pearl. No. 1,025,641; May 7; Sp. p. 1201; Gaz. vol. 178; p. 184.
Pruning device. W. D. and W. Bayley. No. 1,032,370; July 16; Gaz. vol. 180; p. 611.
Pruning implement. A. M. Ottinger. No. 1,023,093; Apr. 9; Sp. p. 2850; Gaz. vol. 177; p. 484.
Pruning implement. E. N. Higley. No. 1,025,626; May 7; Sp. p. 1169; Gaz. vol. 178; p. 180.
Pruning implement. J. C. Kearns. No. 1,042,559; Oct. 29; Gaz. vol. 183; p. 1104.
Pruning-knife. W. Scioneaux. No. 1,038,448; Sept. 10; Gaz. vol. 182; p. 463.
Public signal. M. S. Gibson. No. 1,017,531; Feb. 13; Sp. p. 2866; Gaz. vol. 175; p. 483.
Pug-mill. F. Peckelsen. No. 1,016,644; Feb. 6; Sp. p. 949; Gaz. vol. 175; p. 143.
Pull-line coupling. E. R. Donahue, H. J. Anderson, and H. B. Gregg. No. 1,022,306; Apr. 2; Sp. p. 1153; Gaz. vol. 177; p. 185.
Pull-socket. F. L. Rowntree. No. 1,024,365; Apr. 23; Sp. p. 5551; Gaz. vol. 177; p. 973.
Pull-sockets, Operating attachment for. H. Hubbell. No. 1,048,169; Dec. 24; Gaz. vol. 185; p. 921.
Pull-strap. P. N. Landine. No. 1,014,310; Jan. 9; Sp. p. 2703; Gaz. vol. 174; p. 451.
Puller: *See* Animal-jaw puller; Bean-puller; Beet-puller; Cotton-stalk puller; Nail-puller; Pile-puller; Plant-puller; Post-puller; Railway-tie puller; Root-puller; Spike-puller; Spoke-puller; Stalk-puller; Stump-puller; Weed-puller; Wheel-puller; Wire-puller.
Pulley. R. H. Bowen and A. Walker. No. 1,016,666; Feb. 6; Sp. p. 997; Gaz. vol. 175; p. 150.
Pulley. C. A. Brinley. No. 1,016,667; Feb. 6; Sp. p. 998; Gaz. vol. 175; p. 151.
Pulley. C. A. Brinley. No. 1,016,668; Feb. 6; Sp. p. 999; Gaz. vol. 175; p. 151.
Pulley. B. H. Johnson. No. 1,017,152; Feb. 13; Sp. p. 2056; Gaz. vol. 175; p. 353.
Pulley. O. Ditsworth. No. 1,021,764; Apr. 2; Sp. p. 19; Gaz. vol. 177; p. 6.
Pulley. H. J. Gilbert. No. 1,022,840; Apr. 9; Sp. p. 2327; Gaz. vol. 177; p. 398.
Pulley. J. Petrello. No. 1,022,869; Apr. 9; Sp. p. 2385; Gaz. vol. 177; p. 407.
Pulley. L. A. Biggar. No. 1,025,108; Apr. 30; Sp. p. 7219; Gaz. vol. 177; p. 1264.
Pulley. H. J. Gilbert. No. 1,025,264; May 7; Sp. p. 344; Gaz. vol. 178; p. 56.
Pulley. H. J. Gilbert. No. 1,026,795; May 21; Sp. p. 3753; Gaz. vol. 178; p. 649.
Pulley. H. J. Gilbert. No. 1,026,796; May 21; Sp. p. 3755; Gaz. vol. 178; p. 650.
Pulley. H. J. Gilbert. No. 1,026,797; May 21; Sp. p. 3758; Gaz. vol. 178; p. 650.
Pulley. R. H. Bowen. No. 1,027,639; May 28; Sp. p. 5575; Gaz. vol. 178; p. 974.
Pulley. R. W. Dull. No. 1,029,535; June 11; Sp. p. 3171; Gaz. vol. 179; p. 532.
Pulley. R. H. Bowen. No. 1,031,907; July 9; Gaz. vol. 180; p. 409.
Pulley. H. J. Gilbert. No. 1,032,537; July 16; Gaz. vol. 180; p. 666.
Pulley. R. Reid. No. 1,033,934; July 30; Gaz. vol. 180; p. 1202.
Pulley. A. W. Nelson. No. 1,034,491; Aug. 6; Gaz. vol. 181; p. 30.
Pulley. R. H. Bowen. No. 1,044,340; Nov. 12; Gaz. vol. 184; p. 483.
Pulley and shade holder, Sash-cord-. A. D. Berg. No. 1,025,107; Apr. 30; Sp. p. 7218; Gaz. vol. 177; p. 1264.
Pulley, Belt-. F. E. Meigs. No. 1,042,583; Oct. 29; Gaz. vol. 183; p. 1114.
Pulley-block. P. J. Georgeson. No. 1,022,411; Apr. 9; Sp. p. 1371; Gaz. vol. 177; p. 251.
Pulley-block. G. Risk. No. 1,032,943; July 16; Gaz. vol. 180; p. 803.
Pulley-block cross-head, Logging-. M. C. Ashton. No. 1,025,668; May 7; Sp. p. 1251; Gaz. vol. 178; p. 193.
Pulley-blocks. A. Welin. No. 1,036,391; Aug. 20; Gaz. vol. 181; p. 747.
Pulley-brake for motor-controlled apparatus. M. Taigman. No. 1,044,944; Nov. 19; Gaz. vol. 184; p. 722.
Pulley cap, Sash-. R. F. Hamilton. No. 1,029,441; June 11; Sp. p. 2990; Gaz. vol. 179; p. 501.
Pulley, Clothes-line. G. A. Le Baron. No. 1,024,586; Apr. 30; Sp. p. 6129; Gaz. vol. 177; p. 1084.
Pulley-covering. W. C. Beam. No. 1,024,667; Apr. 30; Sp. p. 6315; Gaz. vol. 177; p. 1113.
Pulley-crowning apparatus. R. H. Bowen. No. 1,047,737; Dec. 17; Gaz. vol. 185; p. 746.
Pulley device, Governor. C. P. Strite. No. 1,026,330; May 14; Sp. p. 2741; Gaz. vol. 178; p. 457.
Pulley, Driving-. C. Eloesser. No. 1,031,433; July 2; Gaz. vol. 180; p. 204.
Pulley, Driving-. G. A. Bakke. No. 1,040,993; Oct. 15; Gaz. vol. 183; p. 512.
Pulley, Expansible. C. Bader. No. 1,032,803; July 16; Gaz. vol. 180; p. 758.
Pulley, Expansion-. M. M. Karr. No. 1,016,158; Jan. 30; Sp. p. 6714; Gaz. vol. 174; p. 1167.
Pulley, Friction-. C. C. Butler. No. 1,036,794; Aug. 27; Gaz. vol. 181; p. 914.
Pulley-hanger, Adjustable. W. S. Schuyler. No. 1,018,010; Feb. 20; Sp. p. 3952; Gaz. vol. 175; p. 684.
Pulley, Line-. R. F. Simmons. No. 1,033,354; July 23; Gaz. vol. 180; p. 982.
Pulley, Loose. R. I. Fancher. No. 1,022,779; Apr. 9; Sp. p. 2209; Gaz. vol. 177; p. 378.
Pulley, Metal. H. P. Gale. No. 1,027,835; May 28; Sp. p. 5999; Gaz. vol. 178; p. 1041.
Pulley or wheel, Self-lubricating loose. F. G. Sargent. No. 1,017,810; Feb. 20; Sp. p. 3489; Gaz. vol. 175; p. 613.
Pulley, Sash-. F. F. Smith. No. 1,017,114; Feb. 13; Sp. p. 1972; Gaz. vol. 175; p. 339.
Pulley, Sash-. F. Egge. No. 1,017,252; Feb. 13; Sp. p. 2283; Gaz. vol. 175; p. 388.
Pulley, Sash-. J. H. Foote. No. 1,029,003; June 11; Sp. p. 2037; Gaz. vol. 179; p. 350.
Pulley, Sash-. J. H. Foote. No. 1,029,004; June 11; Sp. p. 2040; Gaz. vol. 179; p. 351.
Pulley, Sash-cord. J. H. Foote. No. 1,029,005; June 11; Sp. p. 2043; Gaz. vol. 179; p. 351.
Pulley, Sash-cord. J. H. Foote. No. 1,029,006; June 11; Sp. p. 2045; Gaz. vol. 179; p. 352.
Pulley, Self-tightening. G. O. Troxel. No. 1,033,493; July 23; Gaz. vol. 180; p. 1027.
Pulley, Sling or trip. F. Wagner. No. 1,031,494; July 2; Gaz. vol. 180; p. 225.
Pulley, Split. J. J. Novitski. No. 1,018,263; Feb. 20; Sp. p. 4497; Gaz. vol. 175; p. 772.
Pulley, Variable-speed. N. and D. S. Du Brul. No. 1,015,427; Jan. 23; Sp. p. 5164; Gaz. vol. 174; p. 887.
Pulling-over machine. H. A. Ballard. No. 1,015,932; Jan. 30; Sp. p. 6246; Gaz. vol. 174; p. 1088.
Pulling-over machine. E. Brothers. No. 1,017,736; Feb. 20; Sp. p. 3277; Gaz. vol. 175; p. 587.
Pulling-over machine. R. F. McFeely. No. 1,029,387; June 11; Sp. p. 2862; Gaz. vol. 179; p. 482.
Pulling-over machine. R. F. McFeely. No. 1,030,522; June 25; Sp. p. 5414; Gaz. vol. 179; p. 953.
Pulling-over machine. O. Ashton. No. 1,030,763; June 25; Sp. p. 6113; Gaz. vol. 179; p. 1039.
Pulling-over machine. E. Brothers. No. 1,044,483; Nov. 19; Gaz. vol. 184; p. 561.
Pulp-agitator. C. C. Hafer. No. 1,020,694; Mar. 19; Sp. p. 3600; Gaz. vol. 176; p. 632.
Pulp-agitator. W. Hammond. No. 1,026,578; May 14; Sp. p. 3250; Gaz. vol. 178; p. 537.
Pulp and other liquids, Apparatus for subdividing streams of. H. C. Behr and C. F. E. O. Schmitt. No. 1,020,251; Mar. 12; Sp. p. 2652; Gaz. vol. 176; p. 450.
Pulp, Apparatus for the production of mechanical wood-. G. C. Howard. No. 1,039,286; Sept. 24; Gaz. vol. 182; p. 802.
Pulp from waste news print and other grades of paper, Recovery of. J. M. Burby. No. 1,029,848; June 18; Sp. p. 3893; Gaz. vol. 179; p. 678.
Pulp-machine. W. H. Judson. No. 1,015,803; Jan. 30; Sp. p. 5968; Gaz. vol. 174; p. 1044.
Pulp, Machine for manufacturing sheets, boards, tubes, and other articles from. A. R. Kolb. No. 1,019,486; Mar. 5; Sp. p. 1118; Gaz. vol. 176; p. 163.

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Pulp mills, Treating waste liquors from soda-. E. L. Rinman. No. 1,017,320; Feb. 13; Sp. p. 2422; Gaz. vol. 175; p. 411.
Pulp-production apparatus. G. A. Stebbins. No. 1,035,395; Aug. 13; Gaz. vol. 181; p. 367.
Pulp-screen. F. G. Feeley. No. 1,014,288; Jan. 9; Sp. p. 2661; Gaz. vol. 174; p. 444.
Pulp-screen. J. Olsen. No. 1,022,750; Apr. 9; Sp. p. 2147; Gaz. vol. 177; p. 368.
Pulp-screen. E. J. Pope and J. W. Mullen. No. 1,032,701; July 16; Gaz. vol. 180; p. 725.
Pulp-screen. J. Olsen. No. 1,040,743; Oct. 8; Gaz. vol. 183; p. 397.
Pulp-screen-driving mechanism. L. F. Fales. No. 1,026,948; May 21; Sp. p. 4130; Gaz. vol. 178; p. 704.
Pulp-screen-plate fastener. J. Olsen. No. 1,013,890; Jan. 9; Sp. p. 1785; Gaz. vol. 174; p. 306.
Pulp-screening machine. O. Wandel. No. 1,036,389; Aug. 20; Gaz. vol. 181; p. 746.
Pulp-screening machine. O. Wandel. No. 1036,390; Aug. 20; Gaz. vol. 181; p. 746.
Pulp-separator. F. F. Strong. No. 1,023,280; Apr. 16; Sp. p. 3293; Gaz. vol. 177; p. 588.
Pulp-straining machine. J. White and F. W. Gray. No. 1,044,716; Nov. 19; Gaz. vol. 184; p. 645.
Pulp-tube machine. W. R. Seigle. No. 1,037,670; Sept. 3; Gaz. vol. 182; p. 166.
Pulp-tube-winding machine. W. R. Seigle. No. 1,037,671; Sept. 3; Gaz. vol. 182; p. 167.
Pulp-wood barker. P. C. Ulmen and A. Johnson. No. 1,020,783; Mar. 19; Sp. p. 3788; Gaz. vol. 176; p. 664.
Pulque, Elaboration and preparation of. A. J. Carbajal. No. 1,033.873; July 30; Gaz. vol. 180; p. 1180.
Pulsating apparatus. F. D. Holdsworth. No. 1,025,467; May 7; Sp. p. 803; Gaz. vol. 178; p. 125.
Pulsation apparatus. P. Kestner. No. 1,043,707; Nov. 5; Gaz. vol. 184; p. 233.
Pulses, Preserving the aroma of decorticated. E. J. Lourdel. No. 1,046,314; Dec. 3; Gaz. vol. 185; p. 180.
Pulverizer. A. F. Williams. No. 1,014,191; Jan. 9; Sp. p. 2440; Gaz. vol. 174; p. 409.
Pulverizer. C. J. Tomlinson. No. 1,021,906; Apr. 2; Sp. p. 324; Gaz. vol. 177; p. 54.
Pulverizer. M. F. Williams and E. H. Frickey. No. 1,022,454; Apr. 9; Sp. p. 1490; Gaz. vol. 177; p. 267.
Pulverizer. E. H. Frickey. No. 1,037,232; Sept. 3; Gaz. vol. 182; p. 19.
Pulverizer. G. R. Mitchell. No. 1,038,779; Sept. 17; Gaz. vol. 182; p. 611.
Pulverizer. J. H. Hirt. No. 1,038,886; Sept. 17; Gaz. vol. 182; p. 648.
Pulverizer. F. R. Cornwall. No. 1,039,102; Sept. 24; Gaz. vol. 182; p. 735.
Pulverizer. W. K. Liggett and W. J. Armstrong. No. 1,041,495; Oct. 15; Gaz. vol. 183; p. 681.
Pulverizer. W. K. Liggett and W. J. Armstrong. No. 1,044,401; Nov. 12; Gaz. vol. 184; p. 503.
Pulverizer, Adjustable. O. Christianson. No. 1,017,383; Feb. 13; Sp. p. 2547; Gaz. vol. 175; p. 431.
Pulverizer and cultivator, Combined soil-. W. A. Williams. No. 1,023,774; Apr. 16; Sp. p. 4227; Gaz. vol. 177; p. 743.
Pulverizer and leveler, Soil. T. V. Barnard. No. 1,032,041; July 9; Gaz. vol. 180; p. 454.
Pulverizer and weed-destroyer, Sod-. A. Veitl. No. 1,038,240; Sept. 10; Gaz. vol. 182; p. 389.
Pulverizer, Clod-. L. Cunningham. No. 1,041,036; Oct. 15; Gaz. vol. 183; p. 526.
Pulverizer, Disk. F. M. Iler. No. 1,037,772; Sept. 3; Gaz. vol. 182; p. 198.
Pulverizer-machines, Dust-deflector for. M. F. Williams. No. 1,014,193; Jan. 9; Sp. p. 2443; Gaz. vol. 174; p. 410.
Pulverizer-mill. J. W. Fuller, Jr. No. 1,039,721; Oct. 1; Gaz. vol. 183; p. 17.
Pulverizer, Rock and clay. F. W. Roebbel. No. 1,015,344; Jan. 23; Sp. p. 4985; Gaz. vol. 174; p. 860.
Pulverizer, Rotary. A. J. Plowman. No. 1,017,901; Feb. 20; Sp. p. 3722; Gaz. vol. 175; p. 648.
Pulverizer-screen. E. H. Frickey. No. 1,014,384; Jan. 9; Sp. p. 2891; Gaz. vol. 174; p. 478.
Pulverizer, Soil-. E. R. Eagan. No. 1,015,303; Jan. 23; Sp. p. 4883; Gaz. vol. 174; p. 846.
Pulverizer, Soil-. W. J. Dunham. No. 1,023,139; Apr. 16; Sp. p. 2994; Gaz. vol. 177; p. 538.
Pulverizing field-roller. C. Lee. No. 1,043,239; Nov. 5; Gaz. vol. 184; p. 68.
Pulverizing machine, Earth-. C. Jass. No. 1,045,295; Nov. 26; Gaz. vol. 184; p. 872.
Pulverizing machine, Soil-. A. J. Tower. No. 1,041,199; Oct. 15; Gaz. vol. 183; p. 582.
Pulverizing-mill. B. C. Bradley. No. 1,020,398; Mar. 19; Sp. p. 2942; Gaz. vol. 176; p. 535.
Pulverizing-mill. W. A. Galland. No. 1,021,981; Apr. 2; Sp. p. 493; Gaz. vol. 177; p. 79.
Pulverizing-mill. A. J. Sackett. No. 1,040,769; Oct. 8; Gaz. vol. 183; p. 405.
Pulverizing-mill. J. C. Clark. No. 1,049,051; Dec. 31; Gaz. vol. 185; p. 1262.
Pump. E. Martin. No. 1,013,415; Jan. 2; Sp. p. 721; Gaz. vol. 174; p. 113.
Pump. A. B. Jennings. No. 1,014,153; Jan. 9; Sp. p. 2365; Gaz. vol. 174; p. 395.
Pump. N. McCarty. No. 1,014,242; Jan. 9; Sp. p. 2572; Gaz. vol. 174; p. 428.
Pump. S. E. Folk. No. 1,014,289; Jan. 9; Sp. p. 2663; Gaz. vol. 174; p. 444.
Pump. P. A. Myers. No. 1,014,664; Jan. 16; Sp. p. 3511; Gaz. vol. 174; p. 601.
Pump. I. R. Stout. No. 1,014,675; Jan. 16; Sp. p. 3542; Gaz. vol. 174; p. 606.
Pump. A. G. Mattsson. No. 1,017,106; Feb. 13; Sp. p. 1960; Gaz. vol. 175; p. 337.
Pump. J. T. Pedersën. No. 1,018,129; Feb. 20; Sp. p. 4221; Gaz. vol. 175; p. 726.
Pump. E. R. Seward. No. 1,018,379; Feb. 20; Sp. p. 4734; Gaz. vol. 175; p. 811.
Pump. W. M. Fleming. No. 1,018,751; Feb. 27; Sp. p. 5615; Gaz. vol. 175; p. 970.
Pump. J. L. Oakes. No. 1,019,272; Mar. 5; Sp. p. 581; Gaz. vol. 176; p. 93.
Pump. C. R. Pratt. No. 1,019,521; Mar. 5; Sp. p. 1177; Gaz. vol. 176; p. 175.
Pump. C. F. Prescott. No. 1,019,700; Mar. 5; Sp. p. 1504; Gaz. vol. 176; p. 233.
Pump. G. W. Page. No. 1,020,051; Mar. 12; Sp. p. 2220; Gaz. vol. 176; p. 382.
Pump. J. H. Kane. No. 1,020,355; Mar. 12; Sp. p. 2844; Gaz. vol. 176; p. 482.
Pump. O. W. Alpha. No. 1,020,382; Mar. 12; Sp. p. 2896; Gaz. vol. 176; p. 491.
Pump. G. Robson. No. 1,021,892; Apr. 2; Sp. p. 299; Gaz. vol. 177; p. 49.
Pump. G. Johnson and N. J. Russell. No. 1,022,556; Apr. 9; Sp. p. 1695; Gaz. vol. 177; p. 299.
Pump. J. V. Chapman. No. 1,023,298; Apr. 16; Sp. p. 3319; Gaz. vol. 177; p. 593.
Pump. E. M. Smith. No. 1,024,229; Apr. 23; Sp. p. 5309; Gaz. vol. 177; p. 930.
Pump. F. L. Waterous. No. 1,024,919; Apr. 30; Sp. p. 6844; Gaz. vol. 177; p. 1202.
Pump. J. H. Sims. No. 1,025,211; May 7; Sp. p. 225; Gaz. vol. 178; p. 37.
Pump. J. Williams. No. 1,025,554; May 7; Sp. p. 1007; Gaz. vol. 178; p. 155.
Pump. T. B. Martin. No. 1,025,878; May 7; Sp. p. 1699; Gaz. vol. 178; p. 265.
Pump. J. McGeorge. No. 1,027,139; May 21; Sp. p. 4574; Gaz. vol. 178; p. 769.
Pump. C. L. Parker. No. 1,028,061; May 28; Sp. p. 6510; Gaz. vol. 178; p. 1114.
Pump. F. C. Thompson. No. 1,028,401; June 4; Sp. p. 741; Gaz. vol. 179; p. 112.
Pump. A. Bertelli. No. 1,028,665; June 4; Sp. p. 1300; Gaz. vol. 179; p. 200.
Pump. R. C. Dawson. No. 1,029,977; June 18; Sp. p. 4166; Gaz. vol. 179; p. 721.
Pump. R. Conrader. No. 1,031,248; July 2; Gaz. vol. 180; p. 142.
Pump. B. F. Mohr. No. 1,031,362; July 2; Gaz. vol. 180; p. 180.
Pump. G. G. McNee. No. 1,032,847; July 16; Gaz. vol. 180; p. 773.
Pump. C. F., M. F., and L. F. Diaz. No. 1,033,679; July 23; Gaz. vol. 180; p. 1088.
Pump. J. L. McElvain. No. 1,034,270; July 30; Gaz. vol. 180; p. 1320.
Pump. E. Gerstenberg. No. 1,034,358; July 30; Gaz. vol. 180; p. 1350.
Pump. W. A. Drewett. No. 1,035,170; Aug. 13; Gaz. vol. 181; p. 287.
Pump. M. F. Reagan. No. 1,035,468; Aug. 13; Gaz. vol. 181; p. 392.
Pump. F. I. Getty. No. 1,036,094; Aug. 20; Gaz. vol. 181; p. 641.
Pump. F. I. Getty. No. 1,036,096; Aug. 20; Gaz. vol. 181; p. 642.
Pump. W. Winterhoff. No. 1,036,398; Aug. 20; Gaz. vol. 181; p. 749.
Pump. J. H. Sebald No. 1,036,918; Aug. 27; Gaz. vol. 181; p. 955.
Pump. P. H. Shue. No. 1,036,919; Aug. 27; Gaz. vol. 181; p. 955.
Pump. G. A. Toaz. No. 1,036,934; Aug. 27; Gaz. vol. 181; p. 960.
Pump. W. S. Gregg. No. 1,038,568; Sept. 17; Gaz. vol. 182; p. 536.
Pump. J. M. McWilliams. No. 1,040,231; Oct. 1; Gaz. vol. 183; p. 186.
Pump. W. A. S. Thompson, T. N. Kellett, and R. W. Gunn. No. 1,041,375; Oct. 15; Gaz. vol. 183; p. 642.
Pump. R. Conrader. No. 1,041,596; Oct. 15; Gaz. vol. 183; p. 712.
Pump. J. T. Stallsworth. No. 1,043,267; Nov. 5; Gaz. vol. 184; p. 78.
Pump. O. W. Johnson. No. 1,043,319; Nov. 5; Gaz. vol. 184; p. 99.
Pump. J. B. Floyd. No. 1,046,167; Dec. 3; Gaz. vol. 185; p. 126.
Pump. E. J. Cook. No. 1,046,558; Dec. 10; Gaz. vol. 185; p. 304.

Alphabetical list of inventions—Continued.

Pump. J. R. Huether and H. M. Simmons. No. 1,048,410; Dec. 24; Gaz. vol. 185; p. 1000.
Pump, Air-. G. Schmidt. No. 1,015,087; Jan. 16; Sp. p. 4434; Gaz. vol. 174; p. 746.
Pump, Air-. H. J. Hawthorne, G. B. Wyatt, and O. P. Warner. No. 1,021,310; Mar. 26; Sp. p. 4886; Gaz. vol. 176; p. 892.
Pump, Air-. G. J. Spohrer. No. 1,027,923; May 28; Sp. p. 6235; Gaz. vol. 178; p. 1070.
Pump, Air-. C. F. Snyder. No. 1,028,080; May 28; Sp. p. 6567; Gaz. vol. 178; p. 1120.
Pump, Air-. F. J. Schaefer and E. Beyer. No. 1,029,232; June 11; Sp. p. 2516; Gaz. vol. 179; p. 427.
Pump, Air-. P. A. Fisker. No. 1,034,894; Aug. 6; Gaz. vol. 181; p. 166.
Pump air-cushion. F. M. Prescott and E. P. Worden. No. 1,035,386; Aug. 13; Gaz. vol. 181; p. 364.
Pump air-pressure regulator, Force-. F. J. Gile. No. 1,023,146; Apr. 16; Sp. p. 3014; Gaz. vol. 177; p. 541.
Pump, Air-lift. O. E. Harris. No. 1,028,209; June 4; Sp. p. 340; Gaz. vol. 179; p. 46.
Pump, Air-lift. J. H. Holmgreen and W. H. Underwood. No. 1,033,895; July 30; Gaz. vol. 180; p. 1189.
Pump, Air-lift. W. B. Moore. No. 1,035,993; Aug. 20; Gaz. vol. 181; p. 605.
Pump, Air-lift. F. S. Miller. No. 1,036,524; Aug. 20; Gaz. vol. 181; p. 792.
Pump and air-compressor, Vacuum-. R. A. Sallee. No. 1,048,737; Dec. 31; Gaz. vol. 185; p. 1152.
Pump and pitcher, Combined. G. M. Freeman. No. 1,036,822; Aug. 27; Gaz. vol. 181; p. 923.
Pump and valve mechanism therefor, Well-. T. B. Wilkinson. No. 1,020,337; Mar. 12; Sp. p. 2806; Gaz. vol. 176; p. 476.
Pump apparatus, Vacuum-. R. Berrenberg. No. 1,038,075; Sept. 10; Gaz. vol. 182; p. 334.
Pump, Automatic centrifugal. A. C. Paulsmeier. No. 1,045,432; Nov. 26; Gaz. vol. 184; p. 920.
Pump, Automatic compressor-. A. Jaekel. No. 1,039,539; Sept. 24; Gaz. vol. 182; p. 890.
Pump Automatic self-packing plunger-. E. J. Schneider, W. R. Ritchie, and W. Kammerer. No. 1,019,371; Mar. 5; Sp. p. 848; Gaz. vol. 176; p. 126.
Pump, Automatic tire-. A. Brest. No. 1,029,340; June 11; Sp. p. 2769; Gaz. vol. 179; p. 466.
Pump, Automobile-. E. H. Haney. No. 1,040,980; Oct. 8; Gaz. vol. 183; p. 475.
Pump, &c., Axial impeller-. F. Marburg, Jr. No. 1,046,092; Dec. 3; Gaz. vol. 185; p. 100.
Pump-barrel, Glass-lined. W. L. McCormick. No. 1,019,507; Mar. 5; Sp. p. 1157; Gaz. vol. 176; p. 170.
Pump-cap. L. M. Rich. No. 1,029,143; June 11; Sp. p. 2333; Gaz. vol. 179; p. 397.
Pump, Centrifugal. J. Wilkinson. No. 1,013,248; Jan. 2; Sp. p. 349; Gaz. vol. 174; p. 55.
Pump, Centrifugal. W. Kieser. No. 1,020,699; Mar. 19; Sp. p. 3614; Gaz. vol. 176; p. 634.
Pump, Centrifugal. G. C. Kuechler. No. 1,022,425; Apr. 9; Sp. p. 1431; Gaz. vol. 177; p. 256.
Pump, Centrifugal. T. R. Hayton. No. 1,022,478; Apr. 9; Sp. p. 1530; Gaz. vol. 177; p. 275.
Pump, Centrifugal. J. A. Yeatman. No. 1,023,776; Apr. 16; Sp. p. 4232; Gaz. vol. 177; p. 744.
Pump, Centrifugal. A. M. Robeson and A. Davidson. No. 1,025,425; May 7; Sp. p. 695; Gaz. vol. 178; p. 110.
Pump, Centrifugal. E. A. Marsh. No. 1,026,101; May 14; Sp. p. 2239; Gaz. vol. 178; p. 378.
Pump, Centrifugal. T. R. Hayton. No. 1,032,828; July 16; Gaz. vol. 180; p. 767.
Pump, Centrifugal. J. Hurst. No. 1,034,456; Aug. 6; Gaz. vol. 181; p. 19.
Pump, Centrifugal. A. E. Guy. No. 1,037,243; Sept. 3; Gaz. vol. 182; p. 22.
Pump, Centrifugal. A. E. Guy. No. 1,037,244; Sept. 3; Gaz. vol. 182; p. 23.
Pump, Centrifugal. W. E. Hughes. No. 1,040,543; Oct. 8; Gaz. vol. 183; p. 325.
Pump, Centrifugal. J. H. Sebald. No. 1,046,115; Dec. 3; Gaz. vol. 185; p. 109.
Pump, Centrifugal air-. G. Massip. No. 1,049,118; Dec. 31; Gaz. vol. 185; p. 1285.
Pump, Centrifugal or turbine. L. R. Alberger. No. 1,034,184; July 30; Gaz. vol. 180; p. 1289.
Pump, Compound. F. Tuma. No. 1,039,218; Sept. 24; Gaz. vol. 182; p. 776.
Pump, Compound. F. Tuma. No. 1,039,616; Sept. 24; Gaz. vol. 182; p. 916.
Pump, Compressed-air. W. E. Stuart. No. 1,014,422; Jan. 9; Sp. p. 2961; Gaz. vol. 174; p. 491.
Pump, Compressed-air. W. E. Stuart. No. 1,045,907; Dec. 3; Gaz. vol. 185; p. 39.
Pump, Compressor-. W. F. Ruwell. No. 1,023,685; Apr. 16; Sp. p. 4075; Gaz. vol. 177; p. 715.
Pump construction. C. O. Lucas. No. 1,039,154; Sept. 24; Gaz. vol. 182; p. 753.
Pump construction, Scavenging-. W. Schenker. No. 1,048,593; Dec. 31; Gaz. vol. 185; p. 1101.
Pump-coupling, Pneumatic-tire. R. F. Hersey. No. 1,047,409; Dec. 17; Gaz. vol. 185; p. 629.
Pump cross-head. A. K. King and J. W. Irwin. No. 1,023,855; Apr. 23; Sp. p. 4461; Gaz. vol. 177; p. 799.
Pump, Deep-well. C. A. Waitz. No. 1,014,271; Jan. 9; Sp. p. 2622; Gaz. vol. 174; p. 437.
Pump, Deep-well. W. A. Campbell. No. 1,043,568; Nov. 5; Gaz. vol. 184; p. 188.
Pump, Deep-well. J. Hahn. No. 1,045,282; Nov. 26; Gaz. vol. 184; p. 868.
Pump delivery-valve, Centrifugal-. A. Papillon. No. 1,031,580; July 2; Gaz. vol. 180; p. 253.
Pump, Double-acting. J. M. Ough and W. E. Hubbard. No. 1,020,113; Mar. 12; Sp. p. 2363; Gaz. vol. 176; p. 404.
Pump, Double-acting compact power-. S. S. Smith. No. 1,039,832; Oct. 1; Gaz. vol. 183; p. 54.
Pump. Double-setting. G. St. Peters. No. 1,029,476; June 11; Sp. p. 3059; Gaz. vol. 179; p. 513.
Pump, Double spiral. T. O'Connor. No. 1,047,436; Dec. 17; Gaz. vol. 185; p. 639.
Pump driving-gear. S. F. Eubank. No. 1,040,912; Oct. 8; Gaz. vol. 183; p. 450.
Pump-fitting. J. Hahn. No. 1,021,188; Mar. 26; Sp. p. 4634; Gaz. vol. 176; p. 850.
Pump, Fluid-. G. H. Irwin, J. P. Cullon, and F. Knowlson. No. 1,025,067; Apr. 30; Sp. p. 7116; Gaz. vol. 177; p. 1250.
Pump for abstracting air and water from surface condensers, Centrifugal. W. Kieser. No. 1,020,701; Mar. 19; Sp. p. 3619; Gaz. vol. 176; p. 635.
Pump for combustion-engines of the injection type, Fuel-. J. Gunther. No. 1,040,666; Oct. 8; Gaz. vol. 183; p. 371.
Pump for corrosive fluids. U. Wedge. No. 1,027,947; May 28; Sp. p. 6274; Gaz. vol. 178; p. 1078.
Pump for explosive gas. J. C. Fountain. No. 1,044,511; Nov. 19; Gaz. vol. 184; p. 570.
Pump for hydraulic transmission systems, Variable-delivery. W. G. Gibbons. No. 1,020,277; Mar. 12; Sp. p. 2704; Gaz. vol. 176; p. 458.
Pump for lifting granular materials, Pneumatic. E. Koltschanoff. No. 1,016,017; Jan. 30; Sp. p. 6427; Gaz. vol. 174; p. 1119.
Pump for liquids. B. B. Marshall. No. 1,031,133; July 2; Gaz. vol. 180; p. 101.
Pump for locomotive-engines, Auxiliary air-. G. A. Bosworth. No. 1,036,179; Aug. 20; Gaz. vol. 181; p. 672.
Pump for oil-wells, Gas-. J. P. Wintz. No. 1,017,722; Feb. 20; Sp. p. 3246; Gaz. vol. 175; p. 582.
Pump for plant-spraying apparatus. J. Zwicky. No. 1,048,264; Dec. 24; Gaz. vol. 185; p. 951.
Pump for vacuum-cleaners. C. G. Wiborg. No. 1,020,241; Mar. 12; Sp. p. 2635; Gaz. vol. 176; p. 447.
Pump for vacuum-cleaners. R. R. Smith. No. 1,038,222; Sept. 10; Gaz. vol. 182; p. 382.
Pump for vacuum systems. H. B. Cornish. No. 1,048,947; Dec. 31; Gaz. vol. 185; p. 1225.
Pump, Force-. A. J. Tyler. No. 1,039,336; Sept. 24; Gaz. vol. 182; p. 818.
Pump, Force and suction. A. J. Coleman. No. 1,040,276; Oct. 8; Gaz. vol. 183; p. 232.
Pump-gang. C. W. Shartle. No. 1,020,161; Mar. 12; Sp. p. 2462; Gaz. vol. 176; p. 419.
Pump, Gas-. R. Whitaker. No. 1,013,348; Jan. 2; Sp. p. 576; Gaz. vol. 174; p. 92.
Pump-governor. F. L. Jahn. No. 1,037,773; Sept. 3; Gaz. vol. 182; p 199.
Pump-governor, Electric. W. V. Turner. No. 1,018,594; Feb. 27; Sp. p. 5284; Gaz. vol. 175; p. 917.
Pump-governor, Electric. H. M. P. Murphy. No. 1,036,886; Aug. 27; Gaz. vol. 181; p. 944.
Pump-governor, Electric. H. M. P. Murphy. No. 1,037,039; Aug. 27; Gaz. vol. 181; p. 996.
Pump governor. Steam-. W. V. Turner. No. 1,034,662; Aug. 6; Gaz. vol. 181; p. 85.
Pump, Gravity-. G. E. Smith and B. F. Hudson. No. 1,026,713; May 21; Sp. p. 3563; Gaz. vol. 178; p. 622.
Pump, Hand-operated air-. F. C. Virtue. No. 1,025,221; May 7; Sp. p. 245; Gaz. vol. 178; p. 41.
Pump, High-vacuum rotary. W. Gaede. No. 1,029,862; June 18; Sp. p. 3923; Gaz. vol. 179; p. 682.
Pump, Hydrostatic. F. D. Pagliuchi. No. 1,016,767; Feb. 6; Sp. p. 1195; Gaz. vol. 175; p. 184.
Pump, Hydrostatic. F. D. Pagliuchi. No. 1,016,768; Feb. 6; Sp. p. 1202; Gaz. vol. 175; p. 184.
Pump, Internal-combustion liquid-. E. B. Badcock. No. 1,029,039; June 11; Sp. p. 2114; Gaz. vol. 179; p. 361.
Pump-jack. G. W. Seybert. No. 1,024,033; Apr. 23; Sp. p. 4846; Gaz. vol. 177; p. 860.
Pump-jack, Double-acting. W. T. Pittman. No. 1,028,959; June 11; Sp. p. 1935; Gaz. vol. 179; p. 334.
Pump-jack for double-acting pumps. F. W. Axtell. No. 1,024,921; Apr. 30; Sp. p. 6848; Gaz. vol. 177; p. 1203.
Pump, Jet-. W. E. Pedley. No. 1,031,289; July 2; Gaz. vol. 180; p. 155.
Pump, Liquid-. L. H. Nash. No. 1,028,949; June 11; Sp. p. 1916; Gaz. vol. 179; p. 331.
Pump, Lubricating-. E. L. Russell. No. 1,037,055; Aug. 27; Gaz. vol. 181; p. 1002.
Pump, Lubricating-oil. R. Klinger. No. 1,030,665; June 25; Sp. p. 5874; Gaz. vol. 179; p. 1004.
Pump lubricator, Air-. W. V. Turner. No. 1,045,462; Nov. 26; Gaz. vol. 184; p. 922.

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Pump, Measuring-. A. A. Bowser. No. 1,046,053; Dec. 3; Gaz. vol. 185; p. 87.
Pump mechanism. B. Olson. No. 1,017,992; Feb. 20; Sp. p. 3923; Gaz. vol. 175; p. 678.
Pump, Multiple-cylinder. W. H. Newbrough. No. 1,037,297; Sept. 3; Gaz. vol. 182; p. 39.
Pump, Oil-. F. L. Swanberg. No. 1,019,927; Mar. 12; Sp. p. 1979; Gaz. vol. 176; p. 342.
Pump, Oil-well. E. A. Wheeler. No. 1,013,246; Jan. 2; Sp. p. 344; Gaz. vol. 174; p. 55.
Pump, Oil-well. B. Andrews. No. 1,013,579; Jan. 2; Sp. p. 1052; Gaz. vol. 174; p. 169.
Pump, Oil-well. I. Carl. No. 1,017,847; Feb. 20; Sp. p. 3575; Gaz. vol. 175; p. 627.
Pump-operating apparatus. W. Ellsworth. No. 1,046,161; Dec. 3; Gaz. vol. 185; p. 124.
Pump-operating device. S. M. Gard. No. 1,040,305; Oct. 8; Gaz. vol. 183; p. 243.
Pump-operating mechanism. L. P. Norton. No. 1,018,583; Feb. 27; Sp. p. 5264; Gaz. vol. 175; p. 914.
Pump-operating mechanism. P. G. Ault. No. 1,021,296; Mar. 26; Sp. p. 4862; Gaz. vol. 176; p. 888.
Pump-operating mechanism. T. J. Johnson. No. 1,027,052; May 21; Sp. p. 4359; Gaz. vol. 178; p. 739.
Pump operating mechanism. T. P. Hannegan. No. 1,039,389; Sept. 24; Gaz. vol. 182; p. 837.
Pump or blower, Centrifugal. M. Neumayer. No. 1,029,554; June 11; Sp. p. 3219; Gaz. vol. 179; p. 540.
Pump or compressor, Centrifugal. F. Strohbach. No. 1,013,329; Jan. 2; Sp. p. 535; Gaz. vol. 174; p. 85.
Pump or motor. R. Ullman. No. 1,029,157; June 11; Sp. p. 2359; Gaz. vol. 179; p. 402.
Pump or motor, Rotary. R. Janney. No. 1,020,285; Mar. 12; Sp. p. 2719; Gaz. vol. 176; p. 461.
Pump or motor, Rotary. J. W. Tygard. No. 1,047,340; Dec. 17; Gaz. vol. 185; p. 608.
Pump-packing, Metallic. E. M. Scoville. No. 1,024,425; Apr. 23; Sp. p. 5703; Gaz. vol. 177; p. 993.
Pump-piston. A. M. Prince and L. Coscia. No. 1,018,208; Feb. 20; Sp. p. 4387; Gaz. vol. 175; p. 753.
Pump-piston. L. W. Cushman. No. 1,030,977; July 2; Gaz. vol. 180; p. 44.
Pump-piston, Fluid-packing. J. Hahn. No. 1,024,130; Apr. 23; Sp. p. 5084; Gaz. vol. 177; p. 894.
Pump, Piston lubricating-. A. Mlitz. No. 1,014,840; Jan. 16; Sp. p. 3909; Gaz. vol. 174; p. 663.
Pump-plunger. F. V. Braymer. No. 1,028,426; June 4; Sp. p. 796; Gaz. vol. 179; p. 120.
Pump-plunger, Expansive. C. L. Parker. No. 1,027,889; May 28; Sp. p. 6170; Gaz. vol. 178; p. 1059.
Pump, Pneumatic. M. S. Swanstrom. No. 1,039,842; Oct. 1; Gaz. vol. 183; p. 58.
Pump, Pneumatic. T. O. Osterholm. No. 1,045,172; Nov. 26; Gaz. vol. 184; p. 829.
Pump pressure-regulator. R. W. Wittemann. No. 1,029,409; June 11; Sp. p. 2928; Gaz. vol. 179; p. 490.
Pump, Priming-. F. G. Crone. No. 1,045,951; Dec. 3; Gaz. vol. 185; p. 53.
Pump-register. W. C. Pritchard. No. 1,027,151; May 21; Sp. p. 4598; Gaz. vol. 178; p. 772.
Pump-register. L. R. Cole. No. 1,048,041; Dec. 24; Gaz. vol. 185; p. 877.
Pump-regulator, Automatic. E. H. Bridenbaugh. No. 1,024,179; Apr. 23; Sp. p. 5187; Gaz. vol. 177; p. 911.
Pump-rod counterbalance. B. F. Bowman. No. 1,035,309; Aug. 13; Gaz. vol. 181; p. 336.
Pump-rod coupling. L. D. McPheron. No. 1,020,301; Mar. 12; Sp. p. 2746; Gaz. vol. 176; p. 465.
Pump-rod coupling. A. L. Douglass. No. 1,028,689; June 4; Sp. p. 1336; Gaz. vol. 179; p. 207.
Pump-rod lifter. N. Kramer. No. 1,016,334; Feb. 6; Sp. p. 224; Gaz. vol. 175; p. 34.
Pump-rods and well-tubes, Clamp for. W. W. Fisher. No. 1,043,081; Nov. 5; Gaz. vol. 184; p. 11.
Pump, Rotary. D. Dreier. No. 1,019,613; Mar. 5; Sp. p. 1347; Gaz. vol. 176; p. 204.
Pump, Rotary. J. T. Seaman. No. 1,019,995; Mar. 12; Sp. p. 2108; Gaz. vol. 176; p. 363.
Pump, Rotary. W. H. Weddington. No. 1,027,091; May 21; Sp. p. 4470; Gaz. vol. 178; p. 754.
Pump, Rotary. R. H. Danner. No. 1,030,166; June 18; Sp. p. 4551; Gaz. vol. 179; p. 786.
Pump, Rotary. J. R. Kinney. No. 1,031,072; July 2; Gaz. vol. 180; p. 79.
Pump, Rotary. S. D. Wright. No. 1,031,765; July 9; Gaz. vol. 180; p. 361.
Pump, Rotary. E. Morell. No. 1,032,342; July 9; Gaz. vol. 180; p. 557.
Pump, Rotary. D. C. Baker and H. F. Hansen. No. 1,038,477; Sept. 10; Gaz. vol. 182; p. 472.
Pump, Rotary. J. Lehne. No. 1,038,769; Sept. 17; Gaz. vol. 182; p. 608.
Pump, Rotary. F. T. Clarke. No. 1,039,028; Sept. 17; Gaz. vol. 182; p. 694.
Pump, Rotary. J. J. Tokheim. No. 1,040,057; Oct. 1; Gaz. vol. 183; p. 128.
Pump, Rotary. G. F. Oberge. No. 1,041,151; Oct. 15; Gaz. vol. 183; p. 565.
Pump, Rotary. J. F. Smith. No. 1,045,754; Nov. 26; Gaz. vol. 184; p. 1035.
Pump, Rotary. C. F. Goldsborough and A. B. Grewe. No. 1,046,174; Dec. 3; Gaz. vol. 185; p. 128.
Pump, Rotary. B. Inhülsen. No. 1,046,791; Dec. 10; Gaz. vol. 185; p. 387.
Pump, rotary engine, and the like, Rotary. W. A. Beard. No. 1,016,199; Jan. 30; Sp. p. 6786; Gaz. vol. 174; p. 1180.
Pump, Sand-. S. Morimura. No. 1,034,817; Aug. 6; Gaz. vol. 181; p. 141.
Pump, Sand-. R. L. Dutton. No. 1,036,979; Aug. 27; Gaz. vol. 181; p. 976.
Pump, Screw-propeller. F. Marburg, Jr. No. 1,047,261; Dec. 17; Gaz. vol. 185; p. 577.
Pump, Self-cleaning ball-valve. C. L. Parker. No. 1,027,665; May 28; Sp. p. 5630; Gaz. vol. 178; p. 983.
Pump, Steam-. W. O. Wheeler. No. 1,014,795; Jan. 16; Sp. p. 3798; Gaz. vol. 174; p. 645.
Pump, Steam-. L. K. Stevens. No. 1,042,497; Oct. 29; Gaz. vol. 183; p. 1084.
Pump, Steam-. K. Dougan. No. 1,043,214; Nov. 5; Gaz. vol. 184; p. 60.
Pump steel rotor, Centrifugal-. E. Kreher. No. 1,032,287; July 9; Gaz. vol. 180; p. 538.
Pump stuffing-box, Well-. D. Daniels and L. P. Burgess. No. 1,034,696; Aug. 6; Gaz. vol. 181; p. 98.
Pump-support. J. A. Weatherwax. No. 1,046,126; Dec. 3; Gaz. vol. 185; p. 113.
Pump-support. J. A. Weatherwax. No. 1,046,127; Dec. 3; Gaz. vol. 185; p. 113.
Pump, Syrup-. E. A. Friese. No. 1,045,964; Dec. 3; Gaz. vol. 185; p. 58.
Pump, Tire-inflating. H. K. Austin. No. 1,045,495; Nov. 26; Gaz. vol. 184; p. 943.
Pump-unloading device. W. V. Turner. No. 1,021,808; Apr. 2; Sp. p. 108; Gaz. vol. 177; p. 21.
Pump, Vacuum-. H. D. Madden. No. 1,031,801; July 9; Gaz. vol. 180; p. 373.
Pump, Vacuum-. G. Staunton. No. 1,047,585; Dec. 17; Gaz. vol. 185; p. 693.
Pump, Vacuum-. A. Morawski. No. 1,049,130; Dec. 31; Gaz. vol. 185; p. 1289.
Pump-valve. J. N. Robertson. No. 1,027,280; May 21; Sp. p. 4852; Gaz. vol. 178; p. 817.
Pump-valve. G. L. Tryon and G. F. Reid. No. 1,044,300; Nov. 12; Gaz. vol. 184; p. 469.
Pump-valve. F. H. Elwell. No. 1,045,534; Nov. 26; Gaz. vol. 184; p. 958.
Pump valve, Oil-well-. E. A. Wheeler. No. 1,043,279; Nov. 5; Gaz.. vol. 184; p. 82.
Pump valve, Pressure-. F. H. Roberts. No. 1,014,178; Jan. 9; Sp. p. 2409; Gaz. vol. 174; p. 404.
Pump, Valveless. G. J. Dourte. No. 1,034,592; Aug. 6; Gaz. vol. 181; p. 63.
Pump, Valveless rotary. F. Lamplough. No. 1,044,195; Nov. 12; Gaz. vol. 184; p. 432.
Pump, Variable-capacity. B. V. Nordberg. No. 1,032,421; July 16; Gaz. vol. 180; p. 628.
Pump, Well-. J. E. Gable. No. 1,036,824; Aug. 27; Gaz. vol. 181; p. 924.
Pumps and similar devices, Self-acting valve for. P. Brenner and O. Hoffmann. No. 1,027,587; May 28; Sp. p. 5482; Gaz. vol. 178; p. 959.
Pumps and the like, Rubber valve for. T. Howland. No. 1,040,334; Oct. 8; Gaz. vol. 183; p. 253.
Pumps, Automatic balance for centrifugal. A. C. Paulsmeier. No. 1,027,624; May 28; Sp. p. 5540; Gaz. vol. 178; p. 969.
Pumps, Automatic valve for mine-. W. F. Maddox. No. 1,016,573; Feb. 6; Sp. p. 797; Gaz. vol. 175; p. 118.
Pumps, Counteracting device for. J. O. Bane. No. 1,029,580; June 18; Sp. p. 3275; Gaz. vol. 179; p. 583.
Pumps, Injector attachment for air or steam. F. S. Morgan. No. 1,023,583; Apr. 16; Sp. p. 3890; Gaz. vol. 177; p. 685.
Pumps, Means for increasing the height of suction of. A. C. E. Rateau. No. 1,038,201; Sept. 10; Gaz. vol. 182; p. 375.
Pumps of certain types for the pumping of liquids, Regulating. H. M. and T. M. Chance. No. 1,032,113; July 9; Gaz. vol. 180; p. 477.
Pumps, Operating internal-combustion. H. M. and T. M. Chance. No. 1,026,639; May 14; Sp. p. 3392; Gaz. vol. 178; p. 559.
Pumps, Operating reciprocating. H. M. and T. M. Chance. No. 1,026,638; May 14; Sp. p. 3390; Gaz. vol. 178; p. 559.
Pumps or coils, Air-chambered stuffing-box for spiral. G. Bramanti-Mattei and P. Beltramo. No. 1,021,714; Mar. 26; Sp. p. 5727; Gaz. vol. 176; p. 1029.
Pumps, Relief-valve for spraying-. D. W. Wadsworth. No. 1,031,214; July 2; Gaz. vol. 180; p. 130.
Pumps, Speed-controller for steam-. P. R. Prescott. No. 1,023,171; Apr. 16; Sp. p. 3073; Gaz. vol. 177; p. 550.
Pumps, turbines, &c., Automatic balancing device for centrifugal. F. A. Griessmann. No. 1,025,621; May 7; Sp. p. 1160; Gaz. vol. 178; p. 178.
Pumps, turbines, blowers, and the like, Automatic balancing device for rotors of. A. Griessmann and O. Gottschling. No. 1,045,019; Nov. 19; Gaz. vol. 184; p. 748.
Pumping apparatus. X. Caverno. No. 1,015,782; Jan. 30; Sp. p. 5927; Gaz. vol. 174; p. 1037.

Alphabetical list of inventions—Continued.

Pumping apparatus. X. Caverno. No. 1,021,861; Apr. 2; Sp. p. 241; Gaz. vol. 177; p. 39.
Pumping apparatus. J. J. Groetken. No. 1,025,056; Apr. 30; Sp. p. 7097; Gaz. vol. 177; p. 1248.
Pumping apparatus. F. A. Allen. No. 1,029,413; June 11; Sp. p. 2938; Gaz. vol. 179; p. 491.
Pumping apparatus. J. Hahn. No. 1,031,643; July 2; Gaz. vol. 180; p. 275.
Pumping apparatus. H. A. Hogel. No. 1,042,225; Oct. 22; Gaz. vol. 183; p. 962.
Pumping apparatus. H. A. Hogel. No. 1,042,226; Oct. 22; Gaz. vol. 183; p. 963.
Pumping apparatus. F. J. Lukins. No. 1,047,258; Dec. 17; Gaz. vol. 185; p. 576.
Pumping apparatus, Centrifugal. W. Kieser. No. 1,020,700; Mar. 19; Sp. p. 3617; Gaz. vol. 176; p. 635.
Pumping apparatus, Deep-well-. D. W. Hudson. No. 1,041,796; Oct. 22; Gaz. vol. 183; p. 819.
Pumping apparatus, Liquid-. H. M. and T. M. Chance. No. 1,021,237; Mar. 26; Sp. p. 4743; Gaz. vol. 176; p. 866.
Pumping apparatus, Well-. J. W. Darley, Jr. No. 1,042,204; Oct. 22; Gaz. vol. 183; p. 955.
Pumping apparatus, Well-. J. W. Darley, Jr. No. 1,042,330; Oct. 22; Gaz. vol. 183; p. 996.
Pumping, Auxiliary power for. W. T. Pierce. No. 1,036,328; Aug. 20; Gaz. vol. 181; p. 725.
Pumping device. T. Danquard. No. 1,017,084; Feb. 13; Sp. p. 1919; Gaz. vol. 175; p. 329.
Pumping device. C. L. Hedenberg. No. 1,043,763; Nov. 5; Gaz. vol. 184; p. 252.
Pumping-engine plant. C. T. Myers. No. 1,034,490; Aug. 6; Gaz. vol. 181; p. 29.
Pumping liquids. H. M. and T. M. Chance. No. 1,020,965; Mar. 26; Sp. p. 4170; Gaz. vol. 176; p. 775.
Pumping liquids. T. M. Chance. No. 1,021,038; Mar. 26; Sp. p. 4315; Gaz. vol. 176; p. 802.
Pumping liquids. H. M. and T. M. Chance. No. 1,026,637; May 14; Sp. p. 3385; Gaz. vol. 178; p. 558.
Pumping liquids. H. M. and T. M. Chance. No. 1,032,114; July 9; Gaz. vol. 180; p. 477.
Pumping-machine band-wheel. H. W. and D. R. Blakeslee. No. 1,033,753; July 23; Gaz. vol. 180; p. 1111.
Pumping mechanism. A. Ellsworth, A. F. and R. C. Abbott. No. 1,028,338; June 4; Sp. p. 591; Gaz. vol. 179; p. 89.
Pumping mechanism, Well-. A. H. Honey. No. 1,028,822; June 4; Sp. p. 1617; Gaz. vol. 179; p. 252.
Pumping-power. C. E. Clark. No. 1,017,739; Feb. 20; Sp. p. 3286; Gaz. vol. 175; p. 588.
Pumping purposes, Mechanism for transmitting power for. J. A. Brown. No. 1,025,049; Apr. 30; Sp. p. 7086; Gaz. vol. 177; p. 1245.
Pumping system. E. L. Dunn. No. 1,037,879; Sept. 10; Gaz. vol. 182; p. 268.
Punch. G. E Leith. No. 1,016,752; Feb. 6; Sp. p. 1155; Gaz. vol. 175; p. 179.
Punch. J. F. Bradshaw. No. 1,033,527; July 23; Gaz. vol. 180; p. 1039.
Punch. S. W. Hunn. No. 1,039,947; Oct. 1; Gaz. vol. 183; p. 91.
Punch. B. E. Bosler. No. 1,040,497; Oct. 8; Gaz. vol. 183; p. 308.
Punch. L. Fox. No. 1,047,029; Dec. 10; Gaz. vol. 185; p. 464.
Punch and the like, Portable screw-. A. Vernet. No. 1,017,609; Feb. 13; Sp. p. 3004; Gaz. vol. 175; p. 508.
Punch, Belt-. C. H. Metz. No. 1,020,302; Mar. 12; Sp. p. 2747; Gaz. vol. 176; p. 466.
Punch, Center-. J. Richter. No. 1,017,469; Feb. 13; Sp. p. 2749; Gaz. vol. 175; p. 463.
Punch, Metal-working. A. L. Goddard. No. 1,037,896; Sept. 10; Gaz. vol. 182; p. 274.
Punch, Multiple. L. H. Vold. No. 1,016,459; Feb. 6; Sp. p. 509; Gaz. vol. 175; p. 78.
Punch, Multiple. L. H. Vold. (Reissue.) No. 13,472; Oct. 1; Gaz. vol. 183; p. 201.
Punch-press. J. R. Cox. No. 1,044,861; Nov. 19; Gaz. vol. 184; p. 693.
Punch-presses and like machinery, Controlling mechanism for. N. Nelson. No. 1,030,009; June 18; Sp. p. 4221; Gaz. vol. 179; p. 732.
Punch-presses, &c., Safety device for. F. C. Spencer. No. 1,043,876; Nov. 12; Gaz. vol. 184; p. 322.
Punches and like master metal surfaces, Machine for cutting. J. C. Grant and L. A. Legros. No. 1,030,399; June 25; Sp. p. 5100; Gaz. vol. 179; p. 909.
Punches, Making steel. M. Stamm. No. 1,028,299; June 4; Sp. p. 514; Gaz. vol. 179; p. 75.
Punching and eyeleting machine. A. E. Jerram. No. 1,048,836; Dec. 31; Gaz. vol. 185; p. 1187.
Punching and feeding sheet material, Machine for. A. R. Havener. No. 1,019,005; Feb. 27; Sp. p. 6157; Gaz. vol. 175; p. 1057.
Punching and shearing machine. H. B. Kraut. No. 1,035,092; Aug. 6; Gaz. vol. 181; p. 230.
Punching and shearing machine. H. B. Kraut. No. 1,035,093; Aug. 6; Gaz. vol. 181; p. 230.
Punching and shearing machine attachment. A. Parfitt. No. 1,025,016; Apr. 30; Sp. p. 7027; Gaz. vol. 177; p. 1234.
Punching apparatus, Automatic. E. C. Ferris. No. 1,042,210; Oct. 22; Gaz. vol. 183; p. 957.
Punching-bag apparatus. R. A. Hart. No. 1,032,139; July 9; Gaz. vol. 180; p. 485.
Punching device. P. B. Rogers. No. 1,023,275; Apr. 16; Sp. p. 3285; Gaz. vol. 177; p. 586.
Punching holes in metal, Machine for. H. Ainsworth. No. 1,016,120; Jan. 30; Sp. p. 6645; Gaz. vol. 174; p. 1155.
Punching implement. E. C. Becken. No. 1,043,503; Nov. 5; Gaz. vol. 184; p. 165.
Punching-machine. H. B. Kraut. No. 1,035,095; Aug. 6; Gaz. vol. 181; p. 231.
Punching-machine. W. H. Radford. No. 1,035,637; Aug. 13; Gaz. vol. 181; p. 449.
Punching machine, Time-controlled bag-. A. L. Nevels. No. 1,042,816; Oct. 29; Gaz. vol. 183; p. 1195.
Punching, Method of. B. E. Bosler. No. 1,040,265; Oct. 8; Gaz. vol. 183; p. 228.
Punching or shaping metallic blanks, Machine for. M. F. Cahill. No. 1,016,932; Feb. 13; Sp. p. 1550; Gaz. vol. 175; p. 275.
Punching-press feed mechanism. V. H. Bien. No. 1,028,927; June 11; Sp. p. 1875; Gaz. vol. 179; p. 324.
Punching-press, Inclinable. A. N. Verdin and W. H. Kappes. No. 1,013,339; Jan. 2; Sp. p. 551; Gaz. vol. 174; p. 88.
Puncture-alarm. F. D. Schneider. No. 1,025,100; Apr. 30; Sp. p. 7205; Gaz. vol. 177; p. 1262.
Puncture-repairer. W. R. Barstow. No. 1,048,385; Dec. 24; Gaz. vol. 185; p. 993.
Puncturing, dispensing, and sealing device. H. W. Stone. No. 1,048,226; Dec. 24; Gaz. vol. 185; p. 938.
Purse. J. Specht. No. 1,022,976; Apr. 9; Sp. p. 2615; Gaz. vol. 177; p. 445.
Purse. S. Greenberg. No. 1,033,578; July 23; Gaz. vol. 180; p. 1056.
Purse. W. Gaedke. No. 1,044,770; Nov. 19; Gaz. vol. 184; p. 663.
Purse. S. M. Rhone. No. 1,046,021; Dec. 3; Gaz. vol. 185; p. 75.
Push-bar. J. W. Bodie. No. 1,030,639; June 25; Sp. p. 5808; Gaz. vol. 179; p. 995.
Push-button. H. C. Thomson. No. 1,016,589; Feb. 6; Sp. p. 823; Gaz. vol. 175; p. 123.
Push-button. W. B. Eichholtz. No. 1,039,039; Sept. 17; Gaz. vol. 182; p. 697.
Push-button and pump, Pneumatic. G. A. Kenner, W. H. Michael, and T. J. Burton. No. 1,015,962; Jan. 30; Sp. p. 6313; Gaz. vol. 174; p. 1098.
Push-button, Indicating. W. R. Schlage. No. 1,021,339; Mar. 26; Sp. p. 4952; Gaz. vol. 176; p. 904.
Push-button switch. C. A. Clark. No. 1,033,152; July 23; Gaz. vol. 180; p. 913.
Push-drill. W. A. Peck. No. 1,033,615; July 23; Gaz. vol. 180; p. 1068.
Push-switch. G. B. Thomas and E. Anderson. No. 1,046,899; Dec. 10; Gaz. vol. 185; p. 422.
Push-wheel. W. Plummer. No. 1,021,554; Mar. 26; Sp. p. 5433; Gaz. vol. 176; p. 978.
Pusher and manure-spreader. F. A. Schoettger. No. 1,045,753; Nov. 26; Gaz. vol. 184; p. 1035.
Putty-guard. J. H. Wilden. No. 1,048,250; Dec. 24; Gaz. vol. 185; p. 945.
Putty, Wood-oil. C. Ellis. No. 1,029,800; June 18; Sp. p. 3762; Gaz. vol. 179; p. 662.
Puzzle. P. G. Feeney. No. 1,016,221; Jan. 30; Sp. p. 6829; Gaz. vol. 174; p. 1187.
Puzzle. L. W. Hardy. No. 1,017,752; Feb. 20; Sp. p. 3316; Gaz. vol. 175; p. 593.
Puzzle. C. C. Vessels. No. 1,021,281; Mar. 26; Sp. p. 4834; Gaz. vol. 176; p. 882.
Puzzle. J. Wenig. No. 1,022,615; Apr. 9; Sp. p. 1825; Gaz. vol. 177; p. 319.
Puzzle. H. B. Cleveland. No. 1,027,691; May 28; Sp. p. 5694; Gaz. vol. 178; p. 992.
Puzzle. K. Okamoto. No. 1,028,380; June 4; Sp. p. 691; Gaz. vol. 179; p. 105.
Puzzle. E. R. Snedaker. No. 1,029,240; June 11; Sp. p. 2541; Gaz. vol. 179; p. 430.
Puzzle. F. R. and C. E. Long. No. 1,032,290; July 9; Gaz. vol. 180; p. 539.
Puzzle. A. N. Ackley. No. 1,040,091; Oct. 1; Gaz. vol. 183; p. 140.
Puzzle. F. C. Wallace. No. 1,041,535; Oct. 15; Gaz. vol. 183; p. 694.
Puzzle. A. S. Potteiger. No. 1,044,241; Nov. 12; Gaz. vol. 184; p. 449.
Puzzle. A. Rosedale. No. 1,044,250; Nov. 12; Gaz. vol. 184; p. 452.
Puzzle-bank. J. and H. Oblein. No. 1,029,820; June 18; Sp. p. 3811; Gaz. vol. 179; p. 669.
Puzzle, Bottle-. F. X. Fahndrich. No. 1,020,031; Mar. 12; Sp. p. 2183; Gaz. vol. 176; p. 376.
Puzzle-box. J. Szumlinski. No. 1,017,343; Feb. 13; Sp. p. 2460; Gaz. vol. 175; p. 418.
Puzzle, Congestion-problem. W. H. Browning. No. 1,017,378; Feb. 13; Sp. p. 2532; Gaz. vol. 175; p. 429.
Puzzle or toy. W. J. P. Olson. No. 1,038,190; Sept. 10; Gaz. vol. 182; p. 371.
Puzzle, Steeplechase-. H. Van Hoevenberg. No. 1,013,522; Jan. 2; Sp. p. 941; Gaz. vol. 174; p. 151.

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Pyrites briquet and making same. J. S. Robeson. No. 1,013,614; Jan. 2; Sp. p. 1138; Gaz. vol. 174; p. 181.
Pyrometer. J. E. Wilson. No. 1,046,925; Dec. 10; Gaz. vol. 185; p. 431.
Pyrometer, Electric. H. E. Beighlee. No. 1,048,930; Dec. 31; Gaz. vol. 185; p. 1219.
Pyrometer or thermo-battery. J. L. Zander. No. 1,038,258; Sept. 10; Gaz. vol. 182; p. 396.
Pyrophorous substances for ignition and illumination, Production of. A. Lesmüller. No. 1,023,208; Apr. 16; Sp. p. 3147; Gaz. vol. 177; p. 563.
Quartz apparatus, Manufacture of. W. R. Whitney. No. 1,022,910; Apr. 9; Sp. p. 2474; Gaz. vol. 177; p. 421.
Quartz-mill. C. Wallace. No. 1,014,273; Jan. 9; Sp. p 2625; Gaz. vol. 174; p. 438.
Quartz-mill. S. S. Jennison. No. 1,014,305; Jan. 9; Sp. p. 2692; Gaz. vol. 174; p. 450.
Quartz-mill. H. S. Rankin. No. 1,044,571; Nov. 19; Gaz. vol. 184; p. 592.
Quick-action jack. L. Willour. No. 1,042,861; Oct. 29; Gaz. vol. 183; p. 1211.
Quick-release wrench. J. V. Belluomini and A. Marcucci. No. 1,019,939; Mar. 12; Sp. p. 2000; Gaz. vol. 176; p. 346.
Quilling-machine. J. Rigby. No. 1,019,839; Mar. 12; Sp. p. 1772; Gaz. vol. 176; p. 311.
Quilting and stretching frame. W. W. Taggart. No. 1,042,170; Oct. 22; Gaz. vol. 183; p. 944.
Quilting-frame. G. Dalton. No. 1,014,130; Jan. 9; Sp. p. 2324; Gaz. vol. 174; p. 388.
Quilting-frame and curtain-stretcher, Combined. T. and J. T. Lewis. No. 1,020,295; Mar. 12; Sp. p. 2736; Gaz. vol. 176; p. 463.
Quilting-machine. O. Ashton. No. 1,019,118; Mar. 5; Sp. p. 240; Gaz. vol. 176; p. 38.
Quinin compounds and making same, Tasteless. L. Ach. No. 1,032,642; July 16; Gaz. vol. 180; p. 703.
Quoin. C. A. Lutz. No. 1,018,838; Feb. 27; Sp. p. 5790; Gaz. vol. 175; p. 1000.
Race-course barrier and starting device. J. Hluda. No. 1,048,966; Dec. 31; Gaz. vol. 185; p. 1231.
Rack: *See* Bag-rack; Barrel-rack; Basket-rack; Book-rack; Cheese-rack; Clothes-rack; Clothes-drying rack; Coat and hat rack; Corn-rack; Costumer or cloth-rack; Cue-rack; Dish-drying rack; Display-rack; Display mattress-rack; Drying-rack; Flower-rack; Folding rack; Garment-rack; Hanger-rack; Hat-rack; Hat and coat rack; Hat, coat, and umbrella rack; Hay-rack; Hay, stock, and fowl rack; Hog-rack; Hose-rack; Hotel room-rack; Knife-rack; Luggage and hat rack; Mail-bag rack; Map-rack; Mattress-rack; Music-rack; Oil-cloth rack; Paper-rack; Paper-bag rack; Pattern-rack; Photographic-plate rack; Picture-film rack; Pool-ball rack; Portable rack; Postal-card rack; Poultry-cooling rack; Printer's chase-rack; Safety-rack; Scale-rack; Scale stock-rack; Separator cleaning-rack; Sewing-rack; Shingle-rack; Shoe-rack; Skirt-rack; Spool-rack; Stamp-rack; Stock-rack; Suspension-rack; Tool-rack; Towel-rack; Umbrella-rack; Unloading-rack; Vessel-rack; Washline-rack; Whip-rack.
Rack. F. P. Shek. (Reissue.) No. 13,395; Apr. 2; Sp. p. 1337; Gaz. vol. 177; p. 217.
Rack. H. K. Randall and S. C. Thompson. No. 1,038,198; Sept. 10; Gaz. vol. 182; p. 374.
Rack. O. Lynne. No. 1,044,210; Nov. 12; Gaz. vol. 184; p. 438.
Rack. W. B. De Arment. No. 1,045,684; Nov. 26; Gaz. vol. 184; p. 1011.
Rack-cutting machine. W. F. Zimmermann. No. 1,033,144; July 23; Gaz. vol. 180; p. 911.
Rack-holder. S. Volz. No. 1,015,278; Jan. 16; Sp. p. 4816; Gaz. vol. 174; p. 810.
Rack or shelf. P. L. Bryning. No. 1,040,269; Oct. 8; Gaz. vol. 183; p. 229.
Rack-support. F. V. Knauss. No. 1,037,928; Sept. 10; Gaz. vol. 182; p. 286.
Racket. J. J. Curley. No. 1,046,562; Dec. 10; Gaz. vol. 185; p. 306.
Racket case and press. I. C. Wright and D. P. Cummings. No. 1,027,786; May 28; Sp. p. 5877; Gaz. vol. 178; p. 1022.
Racket-strengthening device. F. L. Slazenger. No. 1,035,105; Aug. 6; Gaz. vol. 181; p. 235.
Radial drill. H. M. Norris. No. 1,022,439; Apr. 9; Sp. p. 1454; Gaz. vol. 177; p. 260.
Radial drill. H. W. Schatz. No. 1,028,395; June 4; Sp. p. 727; Gaz. vol. 179; p. 110.
Radiator. S. E. Trisler. No. 1,013,973; Jan. 9; Sp. p. 1978; Gaz. vol. 174; p. 335.
Radiator. W. F. Klees. No. 1,014,828; Jan. 16; Sp. p. 3879; Gaz. vol. 174; p. 658.
Radiator. C. F. Armitage. No. 1,015,531; Jan. 23; Sp. p. 5384; Gaz. vol. 174; p. 923.
Radiator. J. M. Fedders. No. 1,017,396; Feb. 13; Sp. p. 2575; Gaz. vol. 175; p. 436.
Radiator. J. B. Beam. No. 1,019,121; Mar. 5; Sp. p. 248; Gaz. vol. 176; p. 39.
Radiator. J. B. Beam. No. 1,019,122; Mar. 5; Sp. p. 254; Gaz. vol. 176; p. 40.
Radiator. T. D. Robinson. No. 1,021,334; Mar. 26; Sp. p. 4941; Gaz. vol. 176; p. 902.
Radiator. C. S. Carlberg. No. 1,022,620; Apr. 9; Sp. p. 1833; Gaz. vol. 177; p. 321.
Radiator. G. W. Dunham. No. 1,022,662; Apr. 9; Sp. p. 1924; Gaz. vol. 177; p. 335.
Radiator. L. Loziano. (Reissue.) No. 13,411; Apr. 30; Sp. p. 7239; Gaz. vol. 177; p. 1269.
Radiator. R. M. Dixon. No. 1,025,518; May 7; Sp. p. 922; Gaz. vol. 178; p. 143.
Radiator. J. B. Beam. No. 1,026,895; May 21; Sp. p. 3981; Gaz. vol. 178; p. 685.
Radiator. J. B. Beam. No. 1,026,896; May 21; Sp. p. 3983; Gaz. vol. 178; p. 685.
Radiator. F. Schneider. No. 1,029,468; June 11; Sp. p. 3044; Gaz. vol. 179; p. 509.
Radiator. J. H. Morrow. No. 1,044,561; Nov. 19; Gaz. vol. 184; p. 588.
Radiator. F. H. Stolp. No. 1,048,107; Dec. 24; Gaz. vol. 185; p. 899.
Radiator-assembling machine. W. C. McKeown. No. 1,020,150; Mar. 12; Sp. p. 2426; Gaz. vol. 176; p. 415.
Radiator-assembling machine. W. Dietz. No. 1,024,124; Apr. 23; Sp. p. 5069; Gaz. vol. 177; p. 893.
Radiator-assembling machine. J. D. Beebe. No. 1,025,897; May 7; Sp. p. 1770; Gaz. vol. 178; p. 272.
Radiator, Automobile-. C. W. Dippert. No. 1,045,267; Nov. 26; Gaz. vol. 184; p. 863.
Radiator-carrier. F. R. Heskett. No. 1,014,303; Jan. 9; Sp. p. 2690; Gaz. vol. 174; p. 449.
Radiator, Combined steam and water. S. D. Stauffer. No. 1,027,630; May 28; Sp. p. 5560; Gaz. vol. 178; p. 971.
Radiator construction. V. J. Mayo. No. 1,031,137; July 2; Gaz. vol. 180; p. 102.
Radiator, Electrically-heated steam-. J. S. Thompson. No. 1,037,369; Sept. 3; Gaz. vol. 182; p. 64.
Radiator for automobiles and the like. A. Dippert. No. 1,014,816; Jan. 16; Sp. p. 3839; Gaz. vol. 174; p. 653.
Radiator, Heat-. H. V. and J. B. Gorrell. No. 1,039,927; Oct. 1; Gaz. vol. 183; p. 85.
Radiator-heater. M. A. Edson. No. 1,018,414; Feb. 27; Sp. p. 4836; Gaz. vol. 175; p. 856.
Radiator, Hot-water and steam. G. C. Andrews and E. H. Williams. No. 1,023,793; Apr. 23; Sp. p. 4273; Gaz. vol. 177; p. 778.
Radiator, Portable steam or hot-water. A. R. Little. No. 1,039,976; Oct. 1; Gaz. vol. 183; p. 102.
Radiator-shield. F. F. Bassett. No. 1,039,480; Sept. 24; Gaz. vol. 182; p. 868.
Radiator-tubes, Manufacture of. E. and H. Behringer. No. 1,029,099; June 11; Sp. p. 2241; Gaz. vol. 179; p. 383.
Radiators, Air-vent for steam-. O. Kelsey. No. 1,014,229; Jan. 9; Sp. p. 2535; Gaz. vol. 174; p. 423.
Radiators and analogous tubular structures, Making. J. A. McPhayden and C. T. De Veaux. No. 1,014,603; Jan. 9; Sp. p. 3303; Gaz. vol. 174; p. 549.
Radiators, Assembling. J. D. Beebe. No. 1,025,898; May 7; Sp. p. 1773; Gaz. vol. 178; p. 272.
Radiators, Dust-arrester for. A. J. Fandrey. No. 1,019,143; Mar. 5; Sp. p. 307; Gaz. vol. 176; p. 48.
Radiators, Forming connections between opposed walls of sheet-metal. W. R. Kinnear. No. 1,015,738; Jan. 23; Sp. p. 5836; Gaz. vol. 174; p. 995.
Radiators, Guard-deflector for. M. B. Armstrong. No. 1,042,378; Oct. 29; Gaz. vol. 183; p. 1039.
Radiators, Heat-controlling device for. T. K. Lysinger. No. 1,025,919; May 7; Sp. p. 1813; Gaz. vol. 178; p. 279.
Radiators, Making. J. Porzel. No. 1,019,916; Mar. 12; Sp. p. 1954; Gaz. vol. 176; p. 339.
Radiators, Making sheet-metal. O. S. Beyer. No. 1,018,156; Feb. 20; Sp. p. 4283; Gaz. vol. 175; p. 735.
Radiators, Spring for supporting. H. G. Farr. No. 1,049,294; Dec. 31; Gaz. vol. 185; p. 1344.
Radio-active material. C. Schmidt. No. 1,032,779; July 16; Gaz. vol. 180; p. 750.
Radio-active material. C. Schmidt. No. 1,032,951; July 16; Gaz. vol. 180; p. 806.
Radiotelegraphy, Mast for. F. G. F. Bräckerbohm. No. 1,034,760; Aug. 6; Gaz. vol. 181; p. 120.
Radium ores, Treating complex. S. Radcliff. No. 1,049,145; Dec. 31; Gaz. vol. 185; p. 1293.
Rail. A. G. Jones and P. K. Millar. No. 1,023,652; Apr. 16; Sp. p. 4021; Gaz. vol. 177; p. 706.
Rail. W. F. and C. W. Hampton. No. 1,025,913; May 7; Sp. p. 1801; Gaz. vol. 178; p. 277.
Rail. J. J. McGuirl. No. 1,032,846; July 16; Gaz. vol. 180; p. 773.
Rail. A. O'Sullivan. No. 1,034,928; Aug. 6; Gaz. vol. 181; p. 176.
Rail. H. Collins. No. 1,039,029; Sept. 17; Gaz. vol. 182; p. 694.
Rail-anchor. J. A. Bodkin. No. 1,015,129; Jan. 16; Sp. p. 4517; Gaz. vol. 174; p. 761.
Rail-anchor. J. J. Byers. (Reissue.) No. 13,407; Apr. 23; Sp. p. 5849; Gaz. vol. 177; p. 1017.
Rail-anchor. J. W. and D. C. Stephenson. No. 1,031,969; July 9; Gaz. vol. 180; p. 431.
Rail-anchor. W. M. Mitchell and G. A. Johnson. No. 1,032,019; July 9; Gaz. vol. 180; p. 447.
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Rail-anchor. M. E. Hagen. No. 1,041,996; Oct. 22; Gaz. vol. 183; p. 887.
Rail and frog brace and connector. B. C. Hardin. No. 1,048,690; Dec. 31; Gaz. vol. 185; p. 1137.
Rail and rail-joint, Guard-. G. E. Woods. No. 1,039,003; Sept. 17; Gaz. vol. 182; p. 687.
Rail-anticreeper and tie-plate. W. F. and E. Persbacker. No. 1,044,236; Nov. 12; Gaz. vol. 184; p. 447.
Rail-anticreeping device. A. T. Kramer. No. 1,014,155; Jan. 9; Sp. p. 2367; Gaz. vol. 174; p. 395.
Rail-bending machine. J. H. Cassidy. No. 1,024,829; Apr. 30; Sp. p. 6655; Gaz. vol. 177; p. 1171.
Rail-bond. J. T. Deviese. No. 1,017,285; Feb. 13; Sp. p. 2341; Gaz. vol. 175; p. 398.
Rail-bond. F. E. Johnson. No. 1,020,826; Mar. 19; Sp. p. 3882; Gaz. vol. 176; p. 678.
Rail-bond. S. P. Hull. No. 1,031,448; July 2; Gaz. vol. 180; p. 209.
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Rail-bond and fish-plate, Welded. J. M. Yount. No. 1,037,707; Sept. 3; Gaz. vol. 182; p. 179.
Rail-bond compressor. C. H. Oslund. No. 1,043,967; Nov. 12; Gaz. vol. 184; p. 356.
Rail-bonding clamp, Magnetic. H. P. Brown. No. 1,023,921; Apr. 23; Sp. p. 4619; Gaz. vol. 177; p. 822.
Rail-brace. J. P. Vaught and C. M. Walker. No. 1,015,102; Jan. 16; Sp. p. 4466; Gaz. vol. 174; p. 752.
Rail-brace. S. W. Joyal. No. 1,026,807; May 21; Sp. p. 3774; Gaz. vol. 178; p. 653.
Rail-brace. W. G. Paul. No. 1,028,384; June 4; Sp. p. 696; Gaz. vol. 179; p. 106.
Rail-brace. A. D. Davies. No. 1,030,874; July 2; Gaz. vol. 180; p. 9.
Rail-brace. J. D. Spratt. No. 1,039,609; Sept. 24; Gaz. vol. 182; p. 913.
Rail-brace. A. R. Davis. No. 1,041,969; Oct. 22; Gaz. vol. 183; p. 878.
Rail brace and lock, Independent. R. H. Sanders. No. 1,021,268; Mar. 26; Sp. p. 4804; Gaz. vol. 176; p. 877.
Rail-brace and tie-rod. W. E. Miller. No. 1,042,024; Oct. 22; Gaz. vol. 183; p. 897.
Rail brace, Broken-. J. L. Horvath. No. 1,030,888; July 2; Gaz. vol. 180; p. 13.
Rail-brake. J. C. Dale. No. 1,021,507; Mar. 26; Sp. p. 5342; Gaz. vol. 176; p. 962.
Rail-bumper. F. C. Mezger, Jr., and V. Van Venschoten. No. 1,049,310; Dec. 31; Gaz. vol. 185; p. 1350.
Rail-chair. J. Laeufer. No. 1,018,247; Feb. 20; Sp. p. 4466; Gaz. vol. 175; p. 767.
Rail-chair. H. Elliot. No. 1,024,883; Apr. 30; Sp. p. 6761; Gaz. vol. 177; p. 1189.
Rail-chair. W. F. Lockwood and J. E. Thompson. No. 1,033,332; July 23; Gaz. vol. 180; p. 975.
Rail-chair. W. C. Knighton. No. 1,034,715; Aug. 6; Gaz. vol. 181; p. 105.
Rail-chair. L. Zabawa. No. 1,037,708; Sept. 3; Gaz. vol. 182; p. 179.
Rail-chair. C. E. and J. N. Dunham. No. 1,043,216; Nov. 5; Gaz. vol. 184; p. 61.
Rail chair and fastener. H. H. Wiggins. No. 1,042,993; Oct. 29; Gaz. vol. 183; p. 1255.
Rail chair and fastener. J. Matkovcik. No. 1,044,215; Nov. 12; Gaz. vol. 184; p. 439.
Rail chair and fastener, Combined. J. R. Graff. No. 1,031,439; July 2; Gaz. vol. 180; p. 206.
Rail chair and joint. C. E. Doty. No. 1,021,580; Mar. 26; Sp. p. 5487; Gaz. vol. 176; p. 986.
Rail-clamp. C. Orenstein. No. 1,016,849; Feb. 6; Sp. p. 1357; Gaz. vol. 175; p. 210.
Rail-clamp. E. H. Korges. No. 1,022,559; Apr. 9; Sp. p. 1700; Gaz. vol. 177; p. 300.
Rail-clamp. S. D. Steel. No. 1,027,292; May 21; Sp. p. 4880; Gaz. vol. 178; p. 821.
Rail-clamp. G. F. Ausburn. No. 1,029,964; June 18; Sp. p. 4143; Gaz. vol. 179; p. 717.
Rail clamp, Guard-. H. R. Akers. No. 1,020,011; Mar. 12; Sp. p. 2140; Gaz. vol. 176; p. 369.
Rail clamp, Guard-. S. Munson. No. 1,027,212; May 21; Sp. p. 4716; Gaz. vol. 178; p. 792.
Rail clamp, Guard-. J. A. Bodkin. No. 1,040,611; Oct. 8; Gaz. vol. 183; p. 349.
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Rail clamp or stay. W. H. Bates. No. 1,024,611; Apr. 30; Sp. p. 6196; Gaz. vol. 177; p. 1094.
Rail-clamping device. J. Patterson. No. 1,024,648; Apr. 30; Sp. p. 6281; Gaz. vol. 177; p. 1106.
Rail-clamping plate. W. L. Myers. No. 1,047,687; Dec. 17; Gaz. vol. 185; p. 730.
Rail-clamping-plate fastener. A. P. Willoughby. No. 1,041,546; Oct. 15; Gaz. vol. 183; p. 697.
Rail connection. W. H. Cripps. No. 1,013,747; Jan. 2; Sp. p. 1452; Gaz. vol. 174; p. 229.
Rail connection. G. W. Jones. No. 1,033,703; July 23; Gaz. vol. 180; p. 1095.
Rail construction. C. W. Gamwell. No. 1,042,545; Oct. 29; Gaz. vol. 183; p. 1100.
Rail construction, Compound-. E. Rhodes. No. 1,038,439; Sept. 10; Gaz. vol. 182; p. 459.
Rail construction, Shifting-. L. E. Nutt. No. 1,021,553; Mar. 26; Sp. p. 5431; Gaz. vol. 176; p. 978.
Rail-crossover. H. D. Cummins. No. 1,021,574; Mar. 26; Sp. p. 5479; Gaz. vol. 176; p. 984.
Rail-dressing machine. M. Woods and T. J. Gilbert. No. 1,027,366; May 21; Sp. p. 5024; Gaz. vol. 178; p. 846.
Rail-dressing machine. M. Woods and T. J. Gilbert. No. 1,027,367; May 21; Sp. p. 5026; Gaz. vol. 178; p. 847.
Rail-dressing machine. M. Woods and T. J. Gilbert. No. 1,032,721; July 16; Gaz. vol. 180; p. 731.
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Rail-dressing machine. M. Woods and T. J. Gilbert. No. 1,040,833; Oct. 8; Gaz. vol. 183; p. 425.
Rail drill and clamp, Combined. C. J. Coulter. No. 1,016,477; Feb. 6; Sp. p. 548; Gaz. vol. 175; p. 84.
Rail, especially tram-rail. E. Zell. No. 1,040,482; Oct. 8; Gaz. vol. 183; p. 302.
Rail-fastener. M. G. Medeiros. No. 1,014,891; Jan. 16; Sp. p. 4022; Gaz. vol. 174; p. 680.
Rail-fastener. K. Sztejnert. No. 1,016,045; Jan. 30; Sp. p. 6496; Gaz. vol. 174; p. 1130.
Rail-fastener. W. J. Cooper. No. 1,018,962; Feb. 27; Sp. p. 6045; Gaz. vol. 175; p. 1042.
Rail-fastener. A. Szabados. No. 1,021,954; Apr. 2; Sp. p. 439; Gaz. vol. 177; p. 70.
Rail-fastener. A. Hvizdos. No. 1,025,700; May 7; Sp. p. 1314; Gaz. vol. 178; p. 204.
Rail-fastener. L. Sexton. No. 1,027,569; May 28; Sp. p. 5449; Gaz. vol. 178; p. 953.
Rail-fastener. A. R. Gonzalez. No. 1,034,614; Aug. 6; Gaz. vol. 181; p. 70.
Rail-fastener. G. Halinka. No. 1,035,582; Aug. 13; Gaz. vol. 181; p. 430.
Rail-fastener. P. E. Yeager. No. 1,042,744; Oct. 29; Gaz. vol. 183; p. 1170.
Rail-fastener. W. W. Holland. No. 1,044,178; Nov. 12; Gaz. vol. 184; p. 427.
Rail-fastener. R. E. Hammock. No. 1,046,586; Dec. 10; Gaz. vol. 185; p. 313.
Rail-fastener. A. C. Candland. No. 1,048,651; Dec. 31; Gaz. vol. 185; p. 1122.
Rail fastener and support. H. P. White. No. 1,048,618; Dec. 31; Gaz. vol. 185; p. 1110.
Rail-fastener and tie. L. C. Gerkin. No. 1,046,171; Dec. 3; Gaz. vol. 185; p. 128.
Rail-fastener and tie, Combined. E. Young. No. 1,037,706; Sept. 3; Gaz. vol. 182; p. 178.
Rail-fastener, Automatic. A. C. Candland. No. 1,039,362; Sept. 24; Gaz. vol. 182; p. 827.
Rail-fastener for metal ties. F. J. Schisler. No. 1,048,594; Dec. 31; Gaz. vol. 185; p. 1101.
Rail fastener, Guard-. W. S. Newhall. No. 1,041,334; Oct. 15; Gaz. vol. 183; p. 628.
Rail-fastening. J. F. Lewis. No. 1,013,408; Jan. 2; Sp. p. 699; Gaz. vol. 174; p. 111.
Rail-fastening. A. H. Moffet. No. 1,014,084; Jan. 9; Sp. p. 2223; Gaz. vol. 174; p. 372.
Rail-fastening. A. H. Moffet. No. 1,014,086; Jan. 9; Sp. p. 2225; Gaz. vol. 174; p. 373.
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Rail-fastening. A. H. Moffet. No. 1,014,090; Jan. 9; Sp. p. 2231; Gaz. vol. 174; p. 374.
Rail-fastening. B. McCann. No. 1,017,575; Feb. 13; Sp. p. 2944; Gaz. vol. 175; p. 497.
Rail-fastening. W. Iring. No. 1,022,786; Apr. 9; Sp. p. 2219; Gaz. vol. 177; p. 380.
Rail-fastening. J. W. Cuthbert. No. 1,025,053; Apr. 30; Sp. p. 7093; Gaz. vol. 177; p. 1247.
Rail-fastening. G. D. Hill. No. 1,028,878; June 11; Sp. p. 1752; Gaz. vol. 179; p. 307.
Rail-fastening. A. Frantz and P. Franquet. No. 1,032,280; July 9; Gaz. vol. 180; p. 536.
Rail-fastening. W. E. Franklin. No. 1,039,374; Sept. 24; Gaz. vol. 182; p. 832.
Rail-fastening. S. Eisnaugle. No. 1,044,034; Nov. 12; Gaz. vol. 184; p. 378.
Rail-fastening. G. H. Wright. No. 1,044,430; Nov. 12; Gaz. vol. 184; p. 513.
Rail-fastening. S. E. Duff. No. 1,048,665; Dec. 31; Gaz. vol. 185; p. 1128.
Rail-fastening for concrete ties. A. D. Pringle. No. 1,032,939; July 16; Gaz. vol. 180; p. 802.
Rail-fastening device. W. S. Newhall. No. 1,040,568; Oct. 8; Gaz. vol. 183; p. 333.
Rail-fastening device. A. C. Candland. No. 1,048,652; Dec. 31; Gaz. vol. 185; p. 1123.
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Rail-fastening means. A. H. Moffet. No. 1,042,462; Oct. 29; Gaz. vol. 183; p. 1071.
Rail-grinder. G. E. Pellissier. No. 1,034,029; July 30; Gaz. vol. 180: p. 1237.

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Rail-joint. H. Woruda. No. 1,013,256; Jan. 2; Sp. p. 364; Gaz. vol. 174; p. 58.
Rail-joint. H. F. Roach. No. 1,013,613; Jan. 2; Sp. p. 1133; Gaz. vol. 174; p. 181.
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Rail-joint. R. E. Tesreau, L. F. Sundman, and C. P. Hill. No. 1,014,101; Jan. 9; Sp. p. 2267; Gaz. vol. 174; p. 377.
Rail-joint. J. Petri. No. 1,014,513; Jan. 9; Sp. p. 3122; Gaz. vol. 174; p. 519.
Rail-joint. F. Densmore. No. 1,014,695; Jan. 16; Sp. p. 3579; Gaz. vol. 174; p. 612.
Rail-joint. J. W. Grant. No. 1,015,677; Jan. 23; Sp. p. 5700; Gaz. vol. 174; p. 974.
Rail-joint. A. Busa. No. 1,015,725; Jan. 23; Sp. p. 5806; Gaz. vol. 174; p. 990.
Rail-joint. J. Cusick. No. 1,016,674; Feb. 6; Sp. p. 1010; Gaz. vol. 175; p. 153.
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Rail-joint. J. V. Morres. No. 1,017,986; Feb. 20; Sp. p. 3907; Gaz. vol. 175; p. 676.
Rail-joint. J. T. Bogard. No. 1,018,234; Feb. 20; Sp. p. 4441; Gaz. vol. 175; p. 762.
Rail-joint. F. Hoch. No. 1,018,494; Feb. 27; Sp. p 5016; Gaz. vol. 175; p. 882.
Rail-joint. L. M. Dilger. No. 1,018,700; Feb. 27; Sp. p. 5489; Gaz. vol. 175; p. 951.
Rail-joint. L. Mueller. No. 1,019,178; Mar. 5; Sp. p. 386; Gaz. vol. 176; p. 61.
Rail-joint. C. V. V. Turner. No. 1,019,203; Mar. 5; Sp. p. 435; Gaz. vol. 176; p. 69.
Rail-joint. H. N. Kennedy. No. 1,019,966; Mar. 12; Sp. p. 2047; Gaz. vol. 176; p. 354.
Rail-joint. L. A. Gorman. No. 1,020,039; Mar. 12; Sp. p. 2200; Gaz. vol. 176; p. 379.
Rail-joint. J. Youngston. No. 1,020,070; Mar. 12; Sp. p. 2263; Gaz. vol. 176; p. 389.
Rail-joint. F. M. Tibbott. No. 1,020,166; Mar. 12; Sp. p. 2473; Gaz. vol. 176; p. 421.
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Rail-joint. M. A. Stripe. No. 1,021,013; Mar. 26; Sp. p. 4267; Gaz. vol. 176; p. 792.
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Rail-joint. J. M. Loffland. No. 1,021,841; Apr. 2; Sp. p. 197; Gaz. vol. 177; p. 33.
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Rail-joint. J. H. and C. J. Tressler. No. 1,022,279; Apr. 2; Sp. p. 1100; Gaz. vol. 177; p. 176.
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Rail-joint. R. P. Etchison. No. 1,022,835; Apr. 9; Sp. p. 2321; Gaz. vol. 177; p. 397.
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Rail-joint. C. M. Corlew. No. 1,024,313; Apr. 23; Sp. p. 5465; Gaz. vol. 177; p. 958.
Rail-joint. S. James. No. 1,024,450; Apr. 23; Sp. p. 5757; Gaz. vol. 177; p. 1001.
Rail-joint. J. White. No. 1,024,610; Apr. 30; Sp. p. 6195; Gaz. vol. 177; p. 1093.
Rail-joint. J. G. McMichael. No. 1,024,736; Apr. 30; Sp. p. 6453; Gaz. vol. 177; p. 1138.
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Rail-joint. C. C. Lamb. No. 1,025,408; May 7; Sp. p. 664; Gaz. vol. 178; p. 104.
Rail-joint. H. H. Walton and A. H. Yingst. No. 1,025,599; May 7; Sp. p. 1104; Gaz. vol. 178; p. 171.
Rail-joint. C. P. Goetzinger. No. 1,026,088; May 14; Sp. p. 2214; Gaz. vol. 178; p. 373.
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Rail-joint. F. Marinics. No. 1,027,873; May 28; Sp. p. 6136; Gaz. vol. 178; p. 1053.
Rail-joint. W. H. Wiltshire. No. 1,027,956; May 28; Sp. p. 6288; Gaz. vol. 178; p. 1081.
Rail-joint. C. R. Keck. No. 1,028,027; May 28; Sp. p. 6432; Gaz. vol. 178; p. 1103.
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Rail-joint. J. H. Underwood. No. 1,029,407; June 11; Sp. p. 2924; Gaz. vol. 179; p. 489.
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Rail-joint. W. E. Weekes. No. 1,030,695; June 25; Sp. p. 5939; Gaz. vol. 179; p. 1015.
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Rail joint and fastener. M. Effinger. No. 1,031,059; July 2; Gaz. vol. 180; p. 76.
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Rail-joint and nut-lock, Combined. G. W. Trent. No. 1,019,928; Mar. 12; Sp. p. 1980; Gaz. vol. 176; p. 342.
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Rail joint and securing device, Combined. C. F. Courson. No. 1,039,031; Sept. 17; Gaz. vol. 182; p. 695.
Rail-joint and tie-fastener, Combined. A. Dillon. No. 1,038,313; Sept. 10; Gaz. vol. 182; p. 413.
Rail-joint, Automatic continuous. C. Troup. No. 1,022,984; Apr. 9; Sp. p. 2627; Gaz. vol. 177; p. 448.
Rail-joint bars, Shaping. W. J. Bradley. No. 1,040,614; Oct. 8; Gaz. vol. 183; p. 350.
Rail-joint, Boltless. J. H. Ezard. No. 1,026,791; May 21; Sp. p. 3747; Gaz. vol. 178; p. 648.
Rail-joint, Boltless. W. R. Crawford. No. 1,033,879; July 30; Gaz. vol. 180; p. 1182.
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Rail-joint, Bonding. J. G. Smith. No. 1,033,767; July 23; Gaz. vol. 180; p. 1115.
Rail-joint castings, Molding. C. A. Weeks. No. 1,019,706; Mar. 5; Sp. p. 1514; Gaz. vol. 176; p. 235.
Rail-joint chair. G. and M. L. Bacon. No. 1,041,403; Oct. 15; Gaz. vol. 183; p. 650.
Rail-joint fastener. J. E. Foote. No. 1,021,514; Mar. 26; Sp. p. 5362; Gaz. vol. 176; p. 965.
Rail-joint, Insulated. W. H. Sellew and E. A. Everett. No. 1,022,884; Apr. 9; Sp. p. 2408; Gaz. vol. 177; p. 412.
Rail-joint, Insulated. B. G. Braine. No. 1,032,875; July 16; Gaz. vol. 180; p. 782.
Rail-joint, Insulated. J. A. Bodkin. No. 1,037,197; Sept. 3; Gaz. vol. 182; p. 7.
Rail-joint regulator. I. M. Myers and O. Erwin. No. 1,018,436; Feb. 27; Sp. p. 4875; Gaz. vol. 175; p. 863.
Rail-joint, Splice. W. L. Lyons. No. 1,027,489; May 28; Sp. p. 5274; Gaz. vol. 178; p. 924.
Rail-joint support. T. H. McKay and J. F. Hughes. No. 1,017,576; Feb. 13; Sp. p. 2945; Gaz. vol. 175; p. 497.
Rail-joint-supporting device. W. Scott. No. 1,027,284; May 21; Sp. p. 4862; Gaz. vol. 178; p. 818.
Rail-joints and the like, Fastening for. J. W. Stephenson. No. 1,031,966; July 9; Gaz. vol. 180; p. 430.
Rail-joints, Bond-spring for. W. M. Rush. No. 1,042,483; Oct. 29; Gaz. vol. 183; p. 1078.
Rail-joints, Making. J. Misko. No. 1,041,503; Oct. 15; Gaz. vol. 183; p. 683.
Rail-joints, Means for forming. H. G. Gillmor. No. 1,016,621; Feb. 6; Sp. p. 907; Gaz. vol. 175; p. 135.
Rail-joints, Track-fastening for. B. Wolhaupter. No. 1,038,811; Sept. 17; Gaz. vol. 182; p. 622.
Rail-laying apparatus. J. Reinehr. No. 1,038,654; Sept. 17; Gaz vol. 182; p. 566.
Rail-laying machines, Device for preventing the tilting of. J. Reinehr. No. 1,031,869; July 9; Gaz. vol. 180; p. 398.
Rail-loader. M. Feeney. No. 1,037,226; Sept. 3; Gaz. vol. 182; p. 16.
Rail-lock. A. E. Fry. No. 1,014,589; Jan. 9; Sp. p. 3260; Gaz. vol. 174; p. 544.
Rail lock, Float-. G. W. Clemmons. No. 1,028,810; June 4; Sp. p. 1592; Gaz. vol. 179; p. 249.
Rail-locking device, Point-. V. H. Nulle. No. 1,021,725; Mar. 26; Sp. p. 5749; Gaz. vol. 176; p. 1032.
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Rail-seat on tie. J. W. Kummer and G. Jorgensen. No. 1,031,938; July 9; Gaz. vol. 180; p. 420.
Rail-securing device. L. C. Horning. No. 1,045,792; Nov. 26; Gaz. vol. 184; p. 1048.
Rail-securing means. G. W. Whiteman. No. 1,025,104; Apr. 30; Sp. p. 7211; Gaz. vol. 177; p. 1263.
Rail-spike. G. H. Nurnberger. No. 1,042,955; Oct. 29; Gaz. vol. 183; p. 1242.
Rail-splice. E. N. Tuckey. No. 1,015,521; Jan. 23; Sp. p. 5359; Gaz. vol. 174; p. 919.
Rail splice-plate. A. P. Bamberger and G. Porter. No. 1,029,166; June 11; Sp. p. 2381; Gaz. vol. 179; p. 406.
Rail-support. G. W. Roemer. No. 1,037,540; Sept. 3; Gaz. vol. 182; p. 123.
Rail support and clamp. A. von Déstinon. No. 1,046,278; Dec. 3; Gaz. vol. 185; p. 167.
Rail support and fastener. J. Fager. No. 1,045,269; Nov. 26; Gaz. vol. 184; p. 863.
Rail-support and rail. W. Burch. No. 1,026,341; May 14; Sp. p. 2761; Gaz. vol. 178; p. 461.
Rail-support and tie. M. M. Goble. No. 1,031,177; July 2; Gaz. vol. 180; p. 117.
Rail support, Third-. E. J. Blair. No. 1,028,668; June 4; Sp. p. 1303; Gaz. vol. 179; p. 200.
Rail-supporting plate. K. Jasiecki and K. Glowacki. No. 1,024,855; Apr. 30; Sp. p. 6708; Gaz. vol. 177; p. 1181.
Rail, T-. G. W. Dress and C. F. Beck. No. 1,034,428; Aug. 6; Gaz. vol. 181; p. 10.
Rail-tie. J. C. Evans. No. 1,015,671; Jan. 23; Sp. p. 5691; Gaz. vol. 174; p. 972.
Rail-tie. J. D. Flomerfelt. No. 1,020,273; Mar. 12; Sp. p. 2698; Gaz. vol. 176; p. 457.
Rail-tie. S. B. Humbert. No. 1,023,651; Apr. 16; Sp. p. 4020; Gaz. vol. 177; p. 706.
Rail-tie. J. W. Dean. No. 1,035,693; Aug. 13; Gaz. vol. 181; p. 467.
Rail-tie. P. Hebert. No. 1,042,343; Oct. 22; Gaz. vol. 183; p. 1001.
Rail tie and fastener. W. A. Lewis and J. E. Stephen. No. 1,021,936; Apr. 2; Sp. p. 378; Gaz. vol. 177; p. 63.
Rail tie and fastener. E. T. Payne and G. F. Cochran. No. 1,023,871; Apr. 23; Sp. p. 4490; Gaz. vol. 177; p. 804.
Rail tie and fastener. G. A. Humason. No. 1,037,008; Aug. 27; Gaz. vol. 181; p. 986.
Rail tie and fastener. J. B. Forshay and C. J. Rhoads. No. 1,046,578; Dec. 10; Gaz. vol. 185; p. 311.
Rail tie and fastener therefor, Metallic. A. C. Candland. No. 1,024,470; Apr. 23; Sp. p. 5807; Gaz. vol. 177; p. 1009.
Rail tie and fastener. C. Baechler. No. 1,027,370; May 21; Sp. p. 5032; Gaz. vol. 178; p. 848.
Rail tie and fastening device. J. V. Bergen. No. 1,015,535; Jan. 23; Sp. p. 5392; Gaz. vol. 174; p. 924.
Rail-tie fastener. A. Stilke. No. 1,026,373; May 14; Sp. p. 2843; Gaz. vol. 178; p. 471.
Rail-tie, Metal. A. C. Dinkey. No. 1,024,065; Apr. 23; Sp. p. 4916; Gaz. vol. 177; p. 871.
Rail-tie or sleeper. S. Mogyorosi. No. 1,029,211; June 11; Sp. p. 2474; Gaz. vol. 179; p. 421.
Rail tie-plate and fastener. J. H. Miller. No. 1,033,337; July 23; Gaz. vol. 180; p. 976.
Rails, Anticreeping device for. A. J. Dinklage. No. 1,015,791; Jan. 30; Sp. p. 5949; Gaz. vol. 174; p. 1041.
Rails, Apparatus for working on the upper or wearing portions of compound tram-. J. Noll. No. 1,024,906; Apr. 30; Sp. p. 6808; Gaz. vol. 177; p. 1197.
Rails, Apparatus for working on the upper or wearing portions of compound tram-. J. Noll. (Reissue.) No. 13,459; Aug. 20; Gaz. vol. 181; p. 796.
Rails, Foot-guard for switch-. W. C. Passer. No. 1,036,694; Aug. 27; Gaz. vol. 181; p. 882.
Rails, Machine for bending T-section. A. D. Mosby. No. 1,040,382; Oct. 8; Gaz. vol. 183; p. 268.
Rails, Machine for working on compound. E. Rhodes. No. 1,046,020; Dec. 3; Gaz. vol. 185; p. 75.
Rails, Machine for working on compound. J. Noll. No. 1,047,555; Dec. 17; Gaz. vol. 185; p. 682.
Rails, Means for suspending overhead track-. N. Whichello. No. 1,046,699; Dec. 10; Gaz. vol. 185; p. 354.
Rails, Movement-retarding device for. A. Corts. No. 1,020,802; Mar. 19; Sp. p. 3822; Gaz. vol. 176; p. 670.
Rails of tramways or the like, Apparatus for mechanically cleaning the. C. Delmez. No. 1,032,275; July 9; Gaz. vol. 180; p. 534.
Rails, Supporting device for overhead track-. N. Whichello. No. 1,046,698; Dec. 10; Gaz. vol. 185; p. 354.
Rails to metal ties, Means for securing. W. H. Morgan and W. V. Hartzell. No. 1,026,107; May 14; Sp. p. 2253; Gaz. vol. 178; p. 380.

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Rails to metal ties. Means for securing. W. H. Morgan. No. 1,028,248; June 4; Sp. p. 414; Gaz. vol. 179; p. 59.
Rails to metal ties. Means for securing metal. C. L. Taylor. No. 1,017,925; Feb. 20; Sp. p. 3774; Gaz. vol. 175; p. 656.
Rails to ties, Device for securing. O. H. Courson. No. 1,029,426; June 11; Sp. p. 2962; Gaz. vol. 179; p. 495.
Rails to ties, Device for securing. J. Kwiatkowski. No. 1,031,939; July 9; Gaz. vol. 180; p. 420.
Rails to ties, Means for securing. J. W. Kummer and G. Jorgensen. No. 1,039,417; Sept. 24; Gaz. vol. 182; p. 846.
Rails upon their tracks, Machine for planing. J. Little. No. 1,025,754; May 7; Sp. p. 1425; Gaz. vol. 178; p. 223.
Railograph. E. E. Johnson. No. 1,016,999; Feb. 13; Sp. p. 1711; Gaz. vol. 175; p. 299.
Railway. J. Reagin. No. 1,013,441; Jan. 2; Sp. p. 773; Gaz. vol. 174; p. 123.
Railway. M. F. Helmer. No. 1,041,078; Oct. 15; Gaz. vol. 183; p. 541.
Railway, Aerial. H. M. Preacher. No. 1,047,699; Dec. 17; Gaz. vol. 185; p. 734.
Railway and other carriages, Means for ventilating. F. Gain. No. 1,043,686; Nov. 5; Gaz. vol. 184; p. 226.
Railway and the like, Suspension-. H. Müller. No. 1,044,902; Nov. 19; Gaz. vol. 184; p. 707.
Railway, Apparatus for controlling the passage of vehicles along a. A. C. Livermore. No. 1,039,418; Sept. 24; Gaz. vol. 182; p. 847.
Railway automatic gate. J. H. Hancock. No. 1,031,547; July 2; Gaz. vol. 180; p. 243.
Railway automatic safety device. E. Unverricht. No. 1,045,463; Nov. 26; Gaz. vol. 184; p. 932.
Railway-bed. J. W. Gibson. No. 1,014,700; Jan. 16; Sp. p. 3584; Gaz. vol. 174; p. 613.
Railway block-signal system, Electric-. S. S. Stolp. No. 1,016,975; Feb. 13; Sp. p. 1654; Gaz. vol. 175; p. 291.
Railway block-signaling system. Y. Burgess. No. 1,026,200; May 14; Sp. p. 2454; Gaz. vol. 178; p. 411.
Railway block-signaling system, Electric-. K. Richards. No. 1,018,443; Feb. 27; Sp. p. 4891; Gaz. vol. 175; p. 865.
Railway block system. W. G. Roome. No. 1,032,345; July 9; Gaz. vol. 180; p. 558.
Railway block system, Automatic. C. W. Baldwin. No. 1,047,486; Dec. 17; Gaz. vol. 185; p. 658.
Railway-brake. W. H. Jones. No. 1,034,117; July 30; Gaz. vol. 180; p. 1266.
Railway-brakes, Slack-adjuster for. W. H. Sauvage. No. 1,020,519; Mar. 19; Sp. p. 3196; Gaz. vol. 176; p. 573.
Railway braking device. P. Besta. No. 1,047,154; Dec. 17; Gaz. vol. 185; p. 538.
Railway, Cable-. W. H. Colburn. No. 1,044,496; Nov. 19; Gaz. vol. 184; p. 565.
Railway-car extension-step. O. F. Lawson. No. 1,032,916; July 16; Gaz. vol. 180; p. 795.
Railway-carriages, Automatic coupling for. N. Pavia and G. Casalis. No. 1,031,663; July 2; Gaz. vol. 180; p. 282.
Railway cattle-guard. G. T. Senn. No. 1,036,154; Aug. 20; Gaz. vol. 181; p. 663.
Railway cattle-guard. G. H. Davis. No. 1,041,970; Oct. 22; Gaz. vol. 183; p. 878.
Railway chair and plate. J. Isbell. No. 1,037,483; Sept. 3; Gaz. vol. 182; p. 105.
Railway-clamp. M. P. Murray. No. 1,045,730; Nov. 26; Gaz. vol. 184; p. 1028.
Railway construction. C. W. Hansen. No. 1,042,221; Oct. 22; Gaz. vol. 183; p. 961.
Railway construction, Portable. A. S. Cunningham and B. C. Buxton. No. 1,022,467; Apr. 9; Sp. p. 1509; Gaz. vol. 177; p. 271.
Railway-coupling, Automatic. J. B. Moyet and H. Bouvier. No. 1,048,334; Dec. 24; Gaz. vol. 185; p. 975.
Railway cross-tie. O. E. Hall. No. 1,022,362; Apr. 2; Sp. p. 1270; Gaz. vol. 177; p. 204.
Railway cross-tie. G. G. McMurtry. No. 1,031,358; July 2; Gaz. vol. 180; p. 179.
Railway cross-tie. J. E. Keim. No. 1,033,707; July 23; Gaz. vol. 180; p. 1096.
Railway cross-tie. G. W. Curtiss. No. 1,037,599; Sept. 3; Gaz. vol. 182; p. 141.
Railway cross-tie and supporting-plate. J. Gorman. No. 1,021,145; Mar. 26; Sp. p. 4533; Gaz. vol. 176; p. 835.
Railway cross-tie, Metal. G. H. J. Maas. No. 1,034,389; July 30; Gaz. vol. 180; p. 1362.
Railway cross-tie, Metal. R. Baggaley. No. 1,046,939; Dec. 10; Gaz. vol. 185; p. 435.
Railway cross-tie, Standard metal. C. T. Kilgore. No. 1,017,558; Feb. 13; Sp. p. 2913; Gaz. vol. 175; p. 492.
Railway-crossing. B. S. Dunham. No. 1,015,151; Jan. 16; Sp. p. 4555; Gaz. vol. 174; p. 768.
Railway-crossing. C. H. Christian and E. H. Hutcheson. No. 1,015,541; Jan. 23; Sp. p. 5403; Gaz. vol. 174; p. 926.
Railway-crossing. H. A. Lane and J. E. George. No. 1,020,611; Mar. 19; Sp. p. 3419; Gaz. vol. 176; p. 605.
Railway-crossing. R. Marshall and A. Norbury. No. 1,020,834; Mar. 19; Sp. p. 3895; Gaz. vol. 176; p. 681.
Railway-crossing. R. C. Smith and M. T. Sinclair. No. 1,028,622; June 4; Sp. p. 1209; Gaz. vol. 179; p. 185.
Railway-crossing. C. and G. Ulsh. No. 1,029,035; June 11; Sp. p. 2097; Gaz. vol. 179; p. 362.
Railway-crossing. C. Diedreach. No. 1,029,978; June 18; Sp. p. 4169; Gaz. vol. 179; p. 722.
Railway-crossing. L. O. Harbaugh. No. 1,038,358; Sept. 10; Gaz. vol. 182; p. 429.
Railway-crossing. M. F. Holmes. No. 1,043,426; Nov. 5; Gaz. vol. 184; p. 136.
Railway-crossing. T. Lennox. No. 1,043,443; Nov. 5; Gaz. vol. 184; p. 141.
Railway-crossing. F. McConeghy. No. 1,044,680; Nov. 19; Gaz. vol. 184; p. 631.
Railway-crossing. J. N. Hall and A. A. Hodgson. No. 1,045,838; Dec. 3; Gaz. vol. 185; p. 15.
Railway-crossing automatic gate. N. E. Dell. No. 1,043,907; Nov. 12; Gaz. vol. 184; p. 333.
Railway-crossing bells, Electrical contact for. E. D. Every. No. 1,037,606; Sept. 3; Gaz. vol. 182; p. 144.
Railway-crossing guard, Automatic. G. T. Hardenburgh and J. A. Schroyer. No. 1,023,015; Apr. 9; Sp. p. 2683; Gaz. vol. 177; p. 457.
Railway-crossing guard device. C. E. Francisco. No. 1,042,102; Oct. 22; Gaz. vol. 183; p. 922.
Railway-crossing signal. A. T. Cabeen. No. 1,014,117; Jan. 9; Sp. p. 2299; Gaz. vol. 174; p. 383.
Railway-crossing structure. M. F. Holmes. No. 1,043,427; Nov. 5; Gaz. vol. 184; p. 136.
Railway danger-alarm, Electric. P. W. Mosher. No. 1,033,341; July 23; Gaz. vol. 180; p. 978.
Railway device, Safety. J. M. Galloway. No. 1,029,437; June 11; Sp. p. 2985; Gaz. vol. 179; p. 500.
Railway-drawbridge. W. A. Casler. No. 1,046,264; Dec. 3; Gaz. vol. 185; p. 162.
Railway drop-switch. W. R. Kirk. No. 1,045,798; Nov. 26; Gaz. vol. 184; p. 1049.
Railway, Electric. N. H. Turner. No. 1,019,381; Mar. 5; Sp. p. 882; Gaz. vol. 176; p. 130.
Railway, Electric. W. B. Purvis and A. D. Gritman. No. 1,044,819; Nov. 19; Gaz. vol. 184; p. 679.
Railway, Elevated. W. Maloney. No. 1,019,331; Mar. 5; Sp. p. 731; Gaz. vol. 176; p. 113.
Railway, Elevated. J. Orlay. No. 1,020,570; Mar. 19; Sp. p. 3318; Gaz. vol. 176; p. 592.
Railway, Elevated electric. F. T. Thurber. No. 1,019,559; Mar. 5; Sp. p. 1256; Gaz. vol. 176; p. 187.
Railway fastening device. J. W. Babb. No. 1,049,192; Dec. 31; Gaz. vol. 185; p. 1308.
Railway for pleasure and sport. N. Pollak. No. 1,019,834; Mar. 12; Sp. p. 1761; Gaz. vol. 176; p. 309.
Railway-frog. C. A. Alden. No. 1,032,576; July 16; Gaz. vol. 180; p. 679.
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Railway-frog. H. G. Elfborg. No. 1,037,880; Sept. 10; Gaz. vol. 182; p. 268.
Railway-frog. H. G. Elfborg. No. 1,044,508; Nov. 19; Gaz. vol. 184; p. 569.
Railway-frog and connection, Reversible. O. Swanson. No. 1,015,218; Jan. 16; Sp. p. 4676; Gaz. vol. 174; p. 789.
Railway-gate. W. A. Fleming and B. Anderson. No. 1,034,701; Aug. 6; Gaz. vol. 181; p. 100.
Railway-gate, Electric. C. F. Kettering. No. 1,046,605; Dec. 10; Gaz. vol. 185; p. 320.
Railway-gates, Automatic operating means for. F. A. Baughman. No. 1,044,974; Nov. 19; Gaz. vol. 184; p. 732.
Railway-joint. O. J. Schroeder. No. 1,013,689; Jan. 2; Sp. p. 1340; Gaz. vol. 174; p. 208.
Railway-joint. L. R. Hibshman and H. S. Hollar. No. 1,018,054; Feb. 20; Sp. p. 4048; Gaz. vol. 175; p. 700.
Railway-joint. A. Whitlow. No. 1,019,573; Mar. 5; Sp. p. 1275; Gaz. vol. 176; p. 191.
Railway-joint. B. E. Carl. No. 1,048,037; Dec. 24; Gaz. vol. 185; p. 875.
Railway line-marker. T. E. Sutton. No. 1,019,199; Mar. 5; Sp. p. 428; Gaz. vol. 176; p. 68.
Railway, Loop-the-loop pleasure-. W. H. Bickford. No. 1,040,125; Oct. 1; Gaz. vol. 183; p. 153.
Railway, Marine. R. O. Gallinger. No. 1,027,720; May 28; Sp. p. 5742; Gaz. vol. 178; p. 1001.
Railway, Metallic. J. S. Seymour. No. 1,013,960; Jan. 9; Sp. p. 1952; Gaz. vol. 174; p. 331.
Railway, Monorail. M. Scheftel. No. 1,034,840; Aug. 6; Gaz. vol. 181; p. 148.
Railway pile-driver. W. Ferris. No. 1,047,025; Dec. 10; Gaz. vol. 185; p. 463.
Railway, Pleasure-. J. A. Miller. No. 1,037,958; Sept. 10; Gaz. vol. 182; p. 296.
Railway plows, Protecting device for electric-. W. L. Boyer. No. 1,037,421; Sept. 3; Gaz. vol. 182; p. 82.
Railway pneumatic apparatus. J. R. Ricketts. No. 1,019,363; Mar. 5; Sp. p. 824; Gaz. vol. 176; p. 123.
Railway-rail. H. G. Elfborg. No. 1,018,102; Feb. 20; Sp. p. 4167; Gaz. vol. 175; p. 717.

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Railway-rail. D. A. and G. C. Auman. No. 1,020,592; Mar. 19; Sp. p. 3370; Gaz. vol. 176; p. 599.
Railway-rail. T. H. Kruse. No. 1,032,221; July 9; Gaz. vol. 180; p. 515.
Railway-rail. A. R. Cline. No. 1,042,201; Oct. 22; Gaz. vol. 183; p. 954.
Railway-rail anticreeper. H. H. Ferris. No. 1,017,623; Feb. 13; Sp. p. 3029; Gaz. vol. 175; p. 512.
Railway-rail chair. J. W. Swales. No. 1,028,504; June 4; Sp. p. 973; Gaz. vol. 179; p. 146.
Railway-rail clamp for metallic ties. F. M. Johnson. No. 1,047,648; Dec. 17; Gaz. vol. 185; p. 715.
Railway-rail coupling. F. McCue and F. E. McCrea. No. 1,039,429; Sept. 24; Gaz. vol. 182; p. 850.
Railway-rail fastener. A. C. Candland. No. 1,025,453; May 7; Sp. p. 771; Gaz. vol. 178; p. 120.
Railway-rail fastener. G. Edick. No. 1,048,398; Dec. 24; Gaz. vol. 185; p. 997.
Railway-rail-fastening device. G. L. Cheadle, Jr. No. 1,020,264; Mar. 12; Sp. p. 2669; Gaz. vol. 176; p. 453.
Railway-rail joint. W. R. Thomas. No. 1,019,860; Mar. 12; Sp. p. 1824; Gaz. vol. 176; p. 320.
Railway-rail joint. C. P. Lancaster. No. 1,021,200; Mar. 26; Sp. p. 4653; Gaz. vol. 176; p. 853.
Railway-rail joint. J. Revis. No. 1,037,986; Sept. 10; Gaz. vol. 182; p. 306.
Railway-rail joint. A. J. Shurtz. No. 1,044,273; Nov. 12; Gaz. vol. 184; p. 460.
Railway-rail joint, Insulated. T. O'Brien. No. 1,017,311; Feb. 13; Sp. p. 2398; Gaz. vol. 175; p. 408.
Railway-rail support. W. M. Henderson. No. 1,045,550; Nov. 26; Gaz. vol. 184; p. 964.
Railway-rail tie. O. J. Ennis. No. 1,045,535; Nov. 26; Gaz. vol. 184; p. 959.
Railway-rails and means for securing the meeting ends thereof together. J. D. Young. No. 1,023,702; Apr. 16; Sp. p. 4105; Gaz. vol. 177; p. 721.
Railway-rails and metal beams, Means for coupling. C. P. Ackerman. No. 1,047,365; Dec. 17; Gaz. vol. 185; p. 616.
Railway-rails, Anticreeper for. C. W. Reinoehl and B. L. Weaver. No. 1,020,370; Mar. 12; Sp. p. 2871; Gaz. vol. 176; p. 487
Railway-rails, Anticreeper for. D. F. and D. L. Vaughan. No. 1,021,387; Mar. 26; Sp. p. 5043; Gaz. vol. 176; p. 919.
Railway-rails, Anticreeper for. D. F. Vaughan. No. 1,021,388; Mar. 26; Sp. p. 5048; Gaz. vol. 176; p. 919.
Railway-rails, Anticreeper for. D. L. Vaughan. No. 1,021,389; Mar. 26; Sp. p. 5053; Gaz. vol. 176; p. 920.
Railway-rails, Anticreeper for. W. R. Thomas. No. 1,034,168; July 30; Gaz. vol. 180; p. 1284.
Railway-rails, Combined tie-plate and anchor for. B. B. Betts. No. 1,024,114; Apr. 23; Sp. p. 5035; Gaz. vol. 177; p. 889.
Railway-rails, Implement for handling. J. Reinehr. No. 1,031,964; July 9; Gaz. vol. 180; p. 429.
Railway-rails, Means for securing. L. Guba. No. 1,039,931; Oct. 1; Gaz. vol. 183; p. 87.
Railway-rails to metal ties, Clamp for securing. W. H. Morgan and W. V. Hartzell. No. 1,026,105; May 14; Sp. p. 2250; Gaz. vol. 178; p. 379.
Railway-rails to ties, Device for securing. C. F. Courson. No. 1,039,032; Sept. 17; Gaz. vol. 182; p. 695.
Railway-rails to ties, Means for fastening. G. F. Evans. No. 1,032,474; July 16; Gaz. vol. 180; p. 646.
Railway road-bed. J. O'Gorman. No. 1,042,255; Oct. 22; Gaz. vol. 183; p. 972.
Railway-road-bed construction. C. R. Holden. No. 1,020,096; Mar. 12; Sp. p. 2320; Gaz. vol. 176; p. 397.
Railway road bed, track, and rail construction. J. N. D. Brown. No. 1,013,736; Jan. 2; Sp. p. 1425; Gaz. vol. 174; p. 225.
Railway safety appliance. N. J. Roether. No. 1,045,188; Nov. 26; Gaz. vol. 184; p. 834.
Railway safety appliance, Inclined-. J. P. L. Creitz. No. 1,033,674; July 23; Gaz. vol. 180; p. 1086.
Railway safety system. A. Minnick. No. 1,016,227; Jan. 30; Sp. p. 6843; Gaz. vol. 174; p. 1189.
Railway-signal. W. P. Allen. No. 1,016,384; Feb. 6; Sp. p. 323; Gaz. vol. 175; p. 51.
Railway-signal. W. P. Allen and J. P. Coleman. No. 1,016,385; Feb. 6; Sp. p. 327; Gaz. vol. 175; p. 52.
Railway-signal. A. C. Echard and G. S. Alderson. No. 1,019,885; Mar. 12; Sp. p. 1877; Gaz. vol. 176; p. 328.
Railway-signal. I. W. Pierce. No. 1,023,440; Apr. 16; Sp. p. 3593; Gaz. vol. 177; p. 639.
Railway-signal. L. E. Garnett. No. 1,027,382; May 21; Sp. p. 5057; Gaz. vol. 178; p. 851.
Railway-signal. J. D. Taylor. No. 1,029,728; June 18; Sp. p. 3612; Gaz. vol. 179; p. 637.
Railway-signal. T. F. Cody. No. 1,033,989; July 30; Gaz. vol. 180; p. 1222.
Railway-signal. A. H. Fargo. No. 1,041,988; Oct. 22; Gaz. vol. 183; p. 884.
Railway-signal. J. A. Shaw. No. 1,043,471; Nov. 5; Gaz. vol. 184; p. 153.
Railway signal apparatus. J. H. Alandar. No. 1,027,230; May 21; Sp. p. 4752; Gaz. vol. 178; p. 799.
Railway signal device. J. and W. H. Jennings. No. 1,046,597; Dec. 10; Gaz. vol. 185; p. 317.
Railway signal device. J. and W. H. Jennings. No. 1,046,794; Dec. 10; Gaz. vol. 185; p. 388.
Railway signal-fusee. I. Niditch. No. 1,015,062; Jan. 16; Sp. p. 4396; Gaz. vol. 174; p. 738.
Railway signal mechanism, Electric-. R. D. Beatty. No. 1,029,853; June 11; Sp. p. 1695; Gaz. vol. 179; p. 297.
Railway-signal-recording system. T. J. Pyles. No. 1,023,037; Apr. 9; Sp. p. 2726; Gaz. vol. 177; p. 466.
Railway signal system, Automatic. S. C. Perry. No. 1,025,018; Apr. 30; Sp. p. 7030; Gaz. vol. 177; p. 1235.
Railway-signals and the like, Controlling device for. W. Reid. No. 1,027,435; May 28; Sp. p. 5178; Gaz. vol. 178; p. 907.
Railway-signals, Automatic signaling and checking apparatus for. I. von Korotkiewitsch. No. 1,042,236; Oct. 22; Gaz. vol. 183; p. 966.
Railway signaling. J. S. Holliday. No. 1,039,744; Oct. 1; Gaz. vol. 183; p. 25.
Railway signaling. W. Grunow, Jr. No. 1,040,940; Oct. 8; Gaz. vol. 183; p. 460.
Railway signaling apparatus. W. J. Cook. No. 1,014,208; Jan. 9; Sp. p. 2468; Gaz. vol. 174; p. 415.
Railway signaling apparatus. C. W. Coleman. No. 1,029,275; June 11; Sp. p. 2601; Gaz. vol. 179; p. 442.
Railway signaling apparatus, Automatic. J. P. De Braam. No. 1,045,504; Nov. 26; Gaz. vol. 184; p. 946.
Railway signaling apparatus, Automatic electrical. R. P. Brousson. No. 1,015,778; Jan. 30; Sp. p. 5917; Gaz. vol. 174; p. 1036.
Railway signaling device. J. W. Page. No. 1,042,028; Oct. 22; Gaz. vol. 183; p. 898.
Railway signaling device, Automatic. J. E. Hunt. No. 1,031,119; July 2; Gaz. vol. 180; p. 96.
Railway signaling mechanism. J. D. Taylor. No. 1,036,373; Aug. 20; Gaz. vol. 181; p. 740.
Railway signaling mechanism. W. J. Cook. No. 1,037,871; Sept. 10; Gaz. vol. 182; p. 265.
Railway signaling system. T. M. Freeble. No. 1,016,882; Feb. 6; Sp. p. 1426; Gaz. vol. 175; p. 221.
Railway signaling system. L. V. Lewis and J. S. Holliday. No. 1,016,922; Feb. 6; Sp. p. 1522; Gaz. vol. 175; p. 236.
Railway signaling system. L. H. Thullen. No. 1,030,436; June 25; Sp. p. 5181; Gaz. vol. 179; p. 922.
Railway signaling system. G. Ranson, Jr. No. 1,032,773; July 16; Gaz. vol. 180; p. 748.
Railway signaling system. L. F. Howard. No. 1,035,705; Aug. 13; Gaz. vol. 181; p. 471.
Railway signaling system. L. H. Thullen. No. 1,043,170; Nov. 5; Gaz. vol. 184; p. 45.
Railway signaling system. A. J. Wurts. No. 1,046,703; Dec. 10; Gaz. vol. 185; p. 356.
Railway signaling system. C. J. Coleman. No. 1,047,917; Dec. 24; Gaz. vol. 185; p. 837.
Railway signaling system, Electric. M. L. Hein. No. 1,038,129; Sept. 10; Gaz. vol. 182; p. 351.
Railway signaling systems, Circuit-make-and-break device for. W. J. Cook. No. 1,041,966; Oct. 22; Gaz. vol. 183; p. 877.
Railway, Single-track. S. Zsinko. No. 1,042,066; Oct. 22; Gaz. vol. 183; p. 909.
Railway-sleeper. J. McCulloch. No. 1,041,134; Oct. 15; Gaz. vol. 183; p. 560.
Railway-sleeper. W. R. D. Innes. No. 1,047,062; Dec. 10; Gaz. vol. 185; p. 475.
Railway-sleepers, Liner for fixing screw-spikes in. G. Lakhovsky. No. 1,028,743; June 4; Sp. p. 1461; Gaz. vol. 179; p. 225.
Railway-sleepers, Portable machine for regrooving. A. Collet. No. 1,021,400; Mar. 26; Sp. p. 5112; Gaz. vol. 176; p. 925.
Railway speed-regulating device, Automatic. C. James. No. 1,049,239; Dec. 31; Gaz. vol. 185; p. 1324.
Railway-spike. E. J. Dittmer. No. 1,021,356; Mar. 26; Sp. p. 4983; Gaz. vol. 176; p. 909.
Railway-spike. W. A. Mooney. No. 1,025,009; Apr. 30; Sp. p. 7019; Gaz. vol. 177; p. 1233.
Railway-spike. V. P. Fulenwider. No. 1,025,799; May 7; Sp. p. 1515; Gaz. vol. 178; p. 239.
Railway-spike. O. B. Felts. No. 1,029,983; June 18; Sp. p. 4176; Gaz. vol. 179; p. 724.
Railway-spike. T. C. Sisk. No. 1,031,878; July 9; Gaz. vol. 180; p. 401.
Railway-spike. H. H. Lange. No. 1,038,905; Sept. 17; Gaz. vol. 182; p. 655
Railway-spike. J. F. Russell. No. 1,048,590; Dec. 31; Gaz. vol. 185; p. 1100.
Railway-spike. P. Krivacic. No. 1,048,839; Dec. 31; Gaz. vol. 185; p. 1188.
Railway-spike lock. J. S. Edginton. No. 1,048,512; Dec. 31; Gaz. vol. 185; p. 1075.
Railway-station platform. E. De Ryss. No. 1,027,107; May 21; Sp. p. 4503; Gaz. vol. 178; p. 758.
Railway-station platform. E. Elektorowicz (by change of name now E. De Ryss). No. 1,027,828; May 28; Sp. p. 5985; Gaz. vol. 178; p. 1038.
Railway structure. N. E. Salsich. No. 1,016,525; Feb. 6; Sp. p. 679; Gaz. vol. 175; p. 101.
Railway structure. C. W. Reinoehl and W. M. Henderson. No. 1,017,315; Feb. 13; Sp. p. 2407; Gaz. vol. 175; p. 410.

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Railway structure, Pleasure-. J. A. Miller. No. 1,038,174; Sept. 10; Gaz. vol. 182; p. 367.
Railway-switch. J. D. Perkins. No. 1,014,092; Jan. 9; Sp. p. 2233; Gaz. vol. 174; p. 374.
Railway-switch. J. H. Laney. No. 1,017,768; Feb. 20; Sp. p. 3346; Gaz. vol. 175; p. 599.
Railway-switch. F. M. Hall. No. 1,018,314; Feb. 20; Sp. p. 4592; Gaz. vol. 175; p. 789.
Railway-switch. J. W. Bodie. No. 1,019,941; Mar. 12; Sp. p. 2002; Gaz. vol. 176; p. 346.
Railway-switch. L. C. P. Taenchen. No. 1,021,644; Mar. 26; Sp. p. 5600; Gaz. vol. 176; p. 1007.
Railway-switch. F. Chamness. No. 1,025,369; May 7; Sp. p. 589; Gaz. vol. 178; p. 91.
Railway-switch. W. Adkins. No. 1,027,683; May 28; Sp. p. 5679; Gaz. vol. 178; p. 990.
Railway-switch. G. C. Phinney. No. 1,028,776; June 4; Sp. p. 1524; Gaz. vol. 179; p. 237.
Railway-switch. C. E. Estes. No. 1,029,349; June 11; Sp. p. 2784; Gaz. vol. 179; p. 469.
Railway-switch. A. Coulombe. No. 1,032,815; July 16; Gaz. vol. 180; p. 762.
Railway-switch. W. D. Baldwin. No. 1,037,409; Sept. 3; Gaz. vol. 182; p. 78.
Railway-switch. D. Darnley. No. 1,044,147; Nov. 12; Gaz. vol. 184; p. 415.
Railway-switch. E. D. Brown. No. 1,048,489; Dec. 31; Gaz. vol. 185; p. 1066.
Railway-switch. J. Meany. No. 1,048,562; Dec. 31; Gaz. vol. 185; p. 1091.
Railway switch and signal controlling apparatus. H. W. Griffin. No. 1,033,243; July 23; Gaz. vol. 180; p. 945.
Railway-switch, Automatic. J. L. Wooley. No. 1,016,867; Feb. 6; Sp. p. 1401; Gaz. vol. 175; p. 217.
Railway-switch, Automatic. R. H. Conley. No. 1,022,303; Apr. 2; Sp. p. 1148; Gaz. vol. 177; p. 184.
Railway-switch, Automatic. W. T. Lawhorn and A. J. Marks. No. 1,022,631; Apr. 9; Sp. p. 1855; Gaz. vol. 177; p. 324.
Railway-switch, Automatic. O. L. Lance. No. 1,029,200; June 11; Sp. p. 2452; Gaz. vol. 179; p. 417.
Railway-switch, Automatic. O. L. Lance. No. 1,033,763; July 23; Gaz. vol. 180; p. 1114.
Railway-switch contact. E. J. Dunne. No. 1,043,217; Nov. 5; Gaz. vol. 184; p. 62.
Railway-switch controller. P. D. Hibner. No. 1,021,313; Mar. 26; Sp. p. 4891; Gaz. vol. 176; p. 894.
Railway-switch, Electrically-actuated. J. H. Baker. No. 1,048,439; Dec. 24; Gaz. vol. 185; p. 1010.
Railway-switch joint. W. Kaylor. No. 1,026,515; May 14; Sp. p. 3145; Gaz. vol. 178; p. 518.
Railway-switch-locking mechanism. S. D. Frank. No. 1,045,540; Nov. 26; Gaz. vol. 184; p. 960.
Railway-switch-operating device. E. T. Hebb. No. 1,038,574; Sept. 17; Gaz. vol. 182; p. 539.
Railway switch, Street-. A. C. M. Deurloo and C. Vanderweel. No. 1,026,431; May 14; Sp. p. 2962; Gaz. vol. 178; p. 490.
Railway switches and signal devices, System of operating. P. D. Hibner. No. 1,021,312; Mar. 26; Sp. p. 4888; Gaz. vol. 176; p. 893.
Railway switches, signals, &c., Safety-bolt to lock and release the levers serving to operate. C. Legrand and A. Armel. No. 1,029,202; June 11; Sp. p. 2456; Gaz. vol. 179; p. 418.
Railway switching apparatus. G. Campana. No. 1,042,197; Oct. 22; Gaz. vol. 183; p. 953.
Railway system. J. E. Noeggerath. No. 1,027,354; May 21; Sp. p. 4991; Gaz. vol. 178; p. 841.
Railway system, Electric-. H. W. Leonard. No. 1,029,698; June 18; Sp. p. 3534; Gaz. vol. 179; p. 626.
Railway-tank. L. T. Hagan. No. 1,032,896; July 16; Gaz. vol. 180; p. 789.
Railway-terminal. J. D'Esposito. No. 1,022,659; Apr. 9; Sp. p. 1919; Gaz. vol. 177; p. 334.
Railway-tie. U. G. Hamilton. No. 1,013,655; Jan. 2; Sp. p. 1251; Gaz. vol. 174; p. 196.
Railway-tie. W. J. Watterson. No. 1,014,351; Jan. 9; Sp. p. 2819; Gaz. vol. 174; p. 466.
Railway-tie. C. Seddens. No. 1,014,526; Jan. 9; Sp. p. 3149; Gaz. vol. 174; p. 524.
Railway-tie. W. A. Saul. No. 1,014,726; Jan. 16; Sp. p. 3644; Gaz. vol. 174; p. 623.
Railway-tie. H. F. Gorsuch. No. 1,015,172; Jan. 16; Sp. p. 4590; Gaz. vol. 174; p. 774.
Railway-tie. C. D. Green. No. 1,016,141; Jan. 30; Sp. p. 6687; Gaz. vol. 174; p. 1162.
Railway-tie. W. H. Jones. No. 1,016,414; Feb. 6; Sp. p. 397; Gaz. vol. 175; p. 62.
Railway-tie. L. C. Parker. No. 1,016,517; Feb. 6; Sp. p. 656; Gaz. vol. 175; p. 98.
Railway-tie. V. B. Wheaton. No. 1,016,806; Feb. 6; Sp. p. 1276; Gaz. vol. 175; p. 196.
Railway-tie. F. Eisel, F. Hagen, and A. Schroeder. No. 1,017,042; Feb. 13; Sp. p. 1807; Gaz. vol. 175; p. 314.
Railway-tie. J. Booth. No. 1,017,947; Feb. 20; Sp. p. 3815; Gaz. vol. 175; p. 662.
Railway-tie. W. P. and S. G. Thomson. No. 1,018,139; Feb. 20; Sp. p. 4246; Gaz. vol. 175; p. 729.
Railway-tie. J. Gaul and R. W. Vosburg. No. 1,018,755; Feb. 27; Sp. p. 5620; Gaz. vol. 175; p. 972.
Railway-tie. W. J. Steventon. No. 1,018,787; Feb. 27; Sp. p. 5685; Gaz. vol. 175; p. 983.
Railway-tie. A. W. Yocum. No. 1,018,801; Feb. 27; Sp. p. 5715; Gaz. vol. 175; p. 987.
Railway-tie. J. O. Abbott. No. 1,020,173; Mar. 12; Sp. p. 2487; Gaz. vol. 176; p. 424.
Railway-tie. M. G. Challburg. No. 1,021,659; Mar. 26; Sp. p. 5621; Gaz. vol. 176; p. 1011.
Railway-tie. D. S. Beach. No. 1,023,798; Apr. 23; Sp. p. 4298; Gaz. vol. 177; p. 780.
Railway-tie. J. D. Ogden. No. 1,023,956; Apr. 23; Sp. p. 4698; Gaz. vol. 177; p. 833.
Railway-tie. E. Wyckoff. No. 1,024,545; Apr. 30; Sp. p. 6030; Gaz. vol. 177; p. 1071.
Railway-tie. A. C. Candland. No. 1,025,452; May 7; Sp. p. 770; Gaz. vol. 178; p. 120.
Railway-tie. H. G. Filler. No. 1,025,867; May 7; Sp. p. 1662; Gaz. vol. 178; p. 262.
Railway-tie. S. C. Turner. No. 1,026,968; May 21; Sp. p. 4166; Gaz. vol. 178; p. 711.
Railway-tie. G. Lessig. No. 1,027,661; May 28; Sp. p. 5624; Gaz. vol. 178; p. 982.
Railway-tie. J. Pallas, Jr. No. 1,028,597; June 4; Sp. p. 1164; Gaz. vol. 179; p. 177.
Railway-tie. J. Caron. No. 1,028,674; June 4; Sp. p. 1313; Gaz. vol. 179; p. 202.
Railway-tie. W. G. Paul. No. 1,028,828; June 4; Sp. p. 1632; Gaz. vol. 179; p. 254.
Railway-tie. W. Iring. No. 1,029,195; June 11; Sp. p. 2433; Gaz. vol. 179; p. 414.
Railway-tie. V. Tisi. No. 1,029,244; June 11; Sp. p. 2550; Gaz. vol. 179; p. 432.
Railway-tie. A. W Peterson. No. 1,029,628; June 18; Sp. p. 3379; Gaz. vol. 179; p. 602.
Railway-tie. G. Edwards. No. 1,031,432; July 2; Gaz. vol. 180; p. 204.
Railway-tie. P. T. Cheevers. No. 1,031,525; July 2; Gaz. vol. 180; p. 235.
Railway-tie. M. E. Morel. No. 1,033,032; July 16; Gaz. vol. 180; p. 834.
Railway-tie. C. G. Blankenburg. No. 1,033,298; July 23; Gaz. vol. 180; p. 965.
Railway-tie. C. O. Benton. No. 1,033,522; July 23; Gaz. vol. 180; p. 1037.
Railway-tie. J. J. Otterbein. No. 1,033,614; July 23; Gaz. vol. 180; p. 1068.
Railway-tie. J. M. Roe. No. 1,033,735; July 23; Gaz. vol. 180; p. 1106.
Railway-tie. E. C. Schmadeka. No. 1,034,311; July 30; Gaz. vol. 180; p. 1333.
Railway-tie. O. N. Kelly. No. 1,034,623; Aug. 6; Gaz. vol. 181; p. 73.
Railway-tie. G. Naylor. No. 1,036,512; Aug. 20; Gaz. vol. 181; p. 788.
Railway-tie. G. H. Treharne. No. 1,036,749; Aug. 27; Gaz. vol. 181; p. 900.
Railway-tie. S. B. Kull. No. 1,036,860; Aug. 27; Gaz. vol. 181; p. 937.
Railway-tie. F. C. Mellinger. No. 1,037,506; Sept. 3; Gaz. vol. 182; p. 112.
Railway-tie. M. A. O. Stilson. No. 1,037,559; Sept. 3; Gaz. vol. 182; p. 129.
Railway-tie. S. Friedman. No. 1,037,750; Sept. 3; Gaz. vol. 182; p. 191.
Railway-tie. E. C. Jenkins. No. 1,040,205; Oct. 1; Gaz. vol. 183; p. 180.
Railway-tie. E. Borger. No. 1,040,264; Oct. 8; Gaz. vol. 183; p. 228.
Railway-tie. G. D. McLean. No. 1,040,371; Oct. 8; Gaz. vol. 183; p. 265.
Railway-tie. J. C. Loewer. No. 1,041,498; Oct. 15; Gaz. vol. 183; p. 682.
Railway-tie. C. J. Redifer and H. H. Cantwell. No. 1,041,670; Oct. 15; Gaz. vol. 183; p. 738.
Railway-tie. F. S. Caldwell. No. 1,041,736; Oct. 22; Gaz. vol. 183; p. 796.
Railway-tie. A. J. Bates. No. 1,042,071; Oct. 22; Gaz. vol. 183; p. 911
Railway-tie. E. Miller. No. 1,043,126; Nov. 5; Gaz. vol. 184; p. 27.
Railway-tie. C. F. McComas. No. 1,043,621; Nov. 5; Gaz. vol. 184; p. 205.
Railway-tie. W. G. Howe and D. J. McDonald. No. 1,044,389; Nov. 12; Gaz. vol. 184; p. 499.
Railway-tie. F. C. Anglus. No. 1,047,367; Dec. 17; Gaz. vol. 185; p. 617.
Railway-tie. B. F. Fink. No. 1,047,928; Dec. 24; Gaz vol. 185; p. 841.
Railway-tie. J. H. May. No. 1,047,964; Dec. 24; Gaz. vol. 185; p. 852.
Railway-tie. C. B. Nichols and F. E. Shepherd. No. 1,048,199; Dec. 24; Gaz. vol. 185; p. 930.
Railway-tie. B. F. Siber. No. 1,048,598; Dec. 31; Gaz. vol. 185; p. 1103.
Railway-tie. J. A. Naylor. No. 1,048,725; Dec. 31; Gaz. vol. 185; p. 1148.
Railway-tie. J. W. Crouse. No. 1,048,948; Dec. 31; Gaz. vol. 185; p. 1226.
Railway-tie and clamp. C. L. Inman. No. 1,030,407; June 25; Sp. p. 5112; Gaz. vol. 179; p. 912.

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Railway-tie and clamp. K. D. Quarrier. No. 1,045,744; Nov. 26; Gaz. vol. 184; p. 1032.
Railway-tie and fastener. W. Dillinger. No. 1,013,138; Jan. 2; Sp. p. 94; Gaz. vol. 174; p. 17.
Railway-tie and fastener. J. T. Clark. No. 1,014,948; Jan. 16; Sp. p. 4158; Gaz. vol. 174; p. 699.
Railway-tie and fastener. A. C. Candland. No. 1,015,001; Jan. 16; Sp. p. 4273; Gaz. vol. 174; p. 718.
Railway-tie and fastener. A. C. Candland. No. 1,025,450; May 7; Sp. p. 766; Gaz. vol. 178; p. 119.
Railway-tie and fastener. A. C. Candland. No. 1,025,451; May 7; Sp. p. 767; Gaz. vol. 178; p. 119.
Railway-tie and fastener. J. T. Clark. No. 1,026,020; May 14; Sp. p. 2018; Gaz. vol. 178; p. 348.
Railway-tie and fastener. R. E. L. Maxey. No. 1,026,816; May 21; Sp. p. 3790; Gaz. vol. 178; p. 656.
Railway-tie and fastener. A. C. Candland. No. 1,028,432; June 4; Sp. p. 809; Gaz. vol. 179; p. 122.
Railway-tie and fastener. A. C. Candland. No. 1,028,809; June 4; Sp. p. 1590; Gaz. vol. 179; p. 248.
Railway-tie and fastener. A. C. Candland. No. 1,031,981; July 9; Gaz. vol. 180; p. 434.
Railway-tie and fastener. J. T. Clark. No. 1,034,585; Aug. 6; Gaz. vol. 181; p. 61.
Railway-tie and fastener. F. J. Peterson. No. 1,034,644; Aug. 6; Gaz. vol. 181; p. 80.
Railway-tie and fastener. S. W. McConnell. No. 1,041,133; Oct. 15; Gaz. vol. 183; p. 560.
Railway-tie and fastener. J. T. Clark. No. 1,041,964; Oct. 22; Gaz. vol. 183; p. 876.
Railway-tie and fastener. J. T. Clark. No. 1,045,513; Nov. 26; Gaz. vol. 184; p. 950.
Railway-tie and fastener therefor. A. C. Candland. No. 1,028,431; June 4; Sp. p. 807; Gaz. vol. 179; p. 122.
Railway-tie and fastening. W. H. Hornsby. No. 1,042,916; Oct. 29; Gaz. vol. 183; p. 1229.
Railway-tie and fastening means therefor. J. A. Hyle. No. 1,016,690; Feb. 6; Sp. p. 1040; Gaz. vol. 175; p. 158.
Railway-tie and fastening, Metallic. H. T. Kleckner. No. 1,014,489; Jan. 9; Sp. p. 3080; Gaz. vol. 174; p. 512.
Railway-tie and lock. V. A. Conklin. No. 1,021,661; Mar. 26; Sp. p. 5624; Gaz. vol. 176; p. 1012.
Railway-tie and lock, Steel. J. R. Campbell. No. 1,033,381; July 23; Gaz. vol. 180; p. 992.
Railway-tie and means for securing a rail to the same, Metallic. A. C. Bosel. No. 1,023,987; Apr. 23; Sp. p. 4758; Gaz. vol. 177; p. 844.
Railway-tie and means for securing rails to the same. W. H. Morgan. No. 1,026,108; May 14; Sp. p. 2255; Gaz. vol. 178; p. 380.
Railway-tie and rail-fastener. F. C. Seaman. No. 1,044,925; Nov. 19; Gaz. vol. 184; p. 716.
Railway-tie and rail-fastener, Metal. V. E. Davis. No. 1,046,276; Dec. 3; Gaz. vol. 185; p. 166.
Railway-tie and rail-fastening. J. A. Hyle and J. A. Pement. No. 1,013,395; Jan. 2; Sp. p. 678; Gaz. vol. 174; p. 107.
Railway-tie and rail-fastening. J. A. Hyle and W. R. Carmody. No. 1,039,748; Oct. 1; Gaz. vol. 183; p. 26.
Railway-tie and rail-fastening therefor, Metallic. M. J. Shannon. No. 1,035,753; Aug. 13; Gaz. vol. 181; p. 487.
Railway-tie, Cement. H. G. Reckinger. No. 1,029,318; June 11; Sp. p. 2712; Gaz. vol. 179; p. 459.
Railway tie, chair, and fish-plates. W. D. Carpenter and J. A. Humphrey. No. 1,021,658; Mar. 26; Sp. p. 5620; Gaz. vol. 176; p. 1011.
Railway-tie, Combination. J. M. Romberger. No. 1,034,512; Aug. 6; Gaz. vol. 181; p. 38.
Railway-tie-drying apparatus. W. F. Goltra. No. 1,017,406; Dec. 17; Gaz. vol. 185; p. 628.
Railway-tie fastening. A. J. Bates. No. 1,042,309; Oct. 22; Gaz. vol. 183; p. 989.
Railway-tie, Metal. W. H. Morgan and W. V. Hartzell. No. 1,026,106; May 14; Sp. p. 2252; Gaz. vol. 178; p. 379.
Railway-tie, Metal. J. S. Kirk. No. 1,028,223; June 4; Sp. p. 365; Gaz. vol. 179; p. 51.
Railway-tie, Metal. W. H. Morgan. No. 1,028,249; June 4; Sp. p. 415; Gaz. vol. 179; p. 60.
Railway-tie, Metal. W. H. Morgan. No. 1,028,251; June 4; Sp. p. 418; Gaz. vol. 179; p. 60.
Railway-tie, Metal. W. C. Frank. No. 1,031,994; July 9; Gaz. vol. 180; p. 438.
Railway-tie, Metal. W. H. Morgan. No. 1,047,432; Dec. 17; Gaz. vol. 185; p. 637.
Railway-tie, Metallic. E. H. Frank. No. 1,017,965; Feb. 20; Sp. p. 3859; Gaz. vol. 175; p. 668.
Railway-tie, Metallic. J. H. Akin. No. 1,018,401; Feb. 27; Sp. p. 4799; Gaz. vol. 175; p. 851.
Railway-tie, Metallic. W. H. Haws. No. 1,018,491; Feb. 27; Sp. p. 5010; Gaz. vol. 175; p. 881.
Railway-tie, Metallic. S. Shoemaker. No. 1,021,006; Mar. 26; Sp. p. 4253; Gaz. vol. 176; p. 790.
Railway-tie, Metallic. W. Pennock. No. 1,023,392; Apr. 16; Sp. p. 3508; Gaz. vol. 177; p. 625.
Railway-tie, Metallic. T. T. Tong. No. 1,024,299; Apr. 23; Sp. p. 5439; Gaz. vol. 177; p. 953.
Railway-tie, Metallic. W. S. Boyce. No. 1,029,970; June 18; Sp. p. 4152; Gaz. vol. 179; p. 719.
Railway-tie, Metallic. W. F. Baumgardner. No. 1,032,528; July 16; Gaz. vol. 180; p. 663.
Railway-tie, Metallic. L. J. Findlay. No. 1,033,791; July 30; Gaz. vol. 180; p. 1150.
Railway-tie, Metallic. W. C. Spousta. No. 1,034,374; July 30; Gaz. vol. 180; p. 1357.
Railway-tie, Metallic. J. F. Booth. No. 1,035,412; Aug. 13; Gaz. vol. 181; p. 373.
Railway-tie, Metallic. M. J. Francis and A. Moffett. No. 1,036,210; Aug. 20; Gaz. vol. 81; p. 684.
Railway-tie, Metallic. B. S. Rupp. No. 1,044,918; Nov. 19; Gaz. vol. 184; p. 714.
Railway-tie, Metallic. W. H. Haws. No. 1,045,285; Nov. 26; Gaz. vol. 184; p. 869.
Railway-tie, Metallic. J. M. Heasley. No. 1,045,705; Nov. 26; Gaz. vol. 184; p. 1019.
Railway-tie, Metallic. J. Hovey. No. 1,047,057; Dec. 10; Gaz. vol. 185; p. 474.
Railway-tie, Metallic. C. L. H. Dinkelbihler. No. 1,049,060; Dec. 31; Gaz. vol. 185; p. 1265.
Railway tie or sleeper. C. D. Smith. No. 1,032,567; July 16; Gaz. vol. 180; p. 676.
Railway-tie plate. J. W. Kendrick. No. 1,015,325; Jan. 23; Sp. p. 4938; Gaz. vol. 174; p. 854.
Railway-tie plate. J. M. Conway. No. 1,023,551; Apr. 16; Sp. p. 3815; Gaz. vol. 177; p. 673.
Railway-tie plate. J. S. Fox. No. 1,030,723; June 25; Sp. p. 6007; Gaz. vol. 179; p. 1024.
Railway-tie plate and rail-fastener. A. O. McDonald. No. 1,047,824; Dec. 17; Gaz. vol. 185; p. 776.
Railway-tie puller. J. R. Smith. No. 1,015,647; Jan. 23; Sp. p. 5647; Gaz. vol. 174; p. 965.
Railway-tie, Reinforced-cement. J. H. Flood. No. 1,032,198; July 9; Gaz. vol. 180; p. 507.
Railway-tie, Reinforced-concrete. L. T. Lewis. No. 1,027,263; May 21; Sp. p. 4810; Gaz. vol. 178; p. 811.
Railway-tie shim. W. W. Willard. No. 1,026,376; May 14; Sp. p. 2851; Gaz. vol. 178; p. 472.
Railway-tie, Steel. L. Mehlberger. No. 1,046,480; Dec. 10; Gaz. vol. 185; p. 275.
Railway-tie, Steel and concrete. W. F. Morrison. No. 1,021,845; Apr. 2; Sp. p. 203; Gaz. vol. 177; p. 34.
Railway-tie surfacer and tie-plate gage. H. Ware. No. 1,019,936; Mar. 12; Sp. p. 1993; Gaz. vol. 176; p. 345.
Railway-ties, Installation for treating. W. F. Goltra. No. 1,047,405; Dec. 17; Gaz. vol. 185; p. 628.
Railway-ties, Rail-fastening means for. H. K. Powers. No. 1,029,458; June 11; Sp. p. 3026; Gaz. vol. 179; p. 506.
Railway-toilet. G. V. A. Brown. No. 1,019,593; Mar. 5; Sp. p. 1312; Gaz. vol. 176; p. 197.
Railway tongue-switch. M. J. Henehan. No. 1,048,452; Dec. 24; Gaz. vol. 185; p. 1015.
Railway-track. W. Ferguson, Jr., and A. W. Buel. No. 1,017,525; Feb. 13; Sp. p. 2856; Gaz. vol. 175; p. 482.
Railway-track. T. Sivertson. No. 1,017,601; Feb. 13; Sp. p. 2990; Gaz. vol. 175; p. 505.
Railway-track. J. P. Marois. No. 1,027,490; May 28; Sp. p. 5275; Gaz. vol. 178; p. 925.
Railway-track. J. McManus. No. 1,035,027; Aug. 6; Gaz. vol. 181; p. 208.
Railway-track appliance. T. Maney. No. 1,022,957; Apr. 9; Sp. p. 2580; Gaz. vol. 177; p. 438.
Railway-track beds, Device for burning weeds on. E. Engebritson, F. Yuba, and F. Doebriner. No. 1,026,026; May 14; Sp. p. 2038; Gaz. vol. 178; p. 351.
Railway-track brace. J. M. Reid. No. 1,048,097; Dec. 24; Gaz. vol. 185; p. 896.
Railway-track cleaner, Street-. W. J. Briggs. No. 1,046,958; Dec. 10; Gaz. vol. 185; p. 442.
Railway-track construction. W. Brinton and O. E. Brown. No. 1,040,133; Oct. 1; Gaz. vol. 183; p. 155.
Railway-track construction. W. Whigham. No. 1,045,108; Nov. 19; Gaz. vol. 184; p. 779.
Railway-track construction. D. Terrel. No. 1,046,347; Dec. 3; Gaz. vol. 185; p. 191.
Railway-track construction. W. H. Morgan. No. 1,046,837; Dec. 10; Gaz. vol. 185; p. 401.
Railway-track construction. W. H. Morgan. No. 1,048,723; Dec. 31; Gaz. vol. 185; p. 1148.
Railway-track curve. J. W. McManama. No. 1,039,430; Sept. 24; Gaz. vol. 182; p. 850.
Railway-track fastening. C. J. Gadd. No. 1,024,127; Apr. 23; Sp. p. 5077; Gaz. vol. 177; p. 893.
Railway-track fastening. H. L. Bernthal. No. 1,045,362; Nov. 26; Gaz. vol. 184; p. 896.
Railway-track road-bed. F. Hennebique. No. 1,043,764; Nov. 5; Gaz. vol. 184; p. 252.
Railway-track structures, Mechanism for actuating and locking the movable elements of. H. F. Roach. No. 1,014,095; Jan. 9; Sp. p. 2243; Gaz. vol. 174; p. 375.
Railway-track support and fastener. F. M. McGlocklin. No. 1,025,820; May 7; Sp. p. 1559; Gaz. vol. 178; p. 247.
Railway-tracks, Apparatus for blowing sand from. C. D. Brown. No. 1,021,655; Mar. 26; Sp. p. 5616; Gaz. vol. 176; p. 1010.
Railway-tracks, Bumping-block for. M. M. Suppes. No. 1,027,779; May 28; Sp. p. 5867; Gaz. vol. 178; p. 1020.

Alphabetical list of inventions—Continued.

Railway-tracks running along or across streets or roads Curbing for. T. Aston. No. 1,037,716; Sept. 3; Gaz. vol. 182; p. 181.
Railway-traffic-controlling apparatus, System for electrically controlling and operating. H. B. Taylor. No. 1,034,167; July 30; Gaz. vol. 180; p. 1284.
Railway-traffic-controlling system and apparatus. W. H. Arkenburgh No. 1,030,961; July 2; Gaz. vol. 180; p. 38.
Railway-trains, Auxiliary pilot for. I. Wolper. No. 1,014,552; Jan. 9; Sp. p. 3188; Gaz. vol. 174; p. 531.
Railway trains, System of operating steam-. G. H. Lutz. No. 1,030,669; June 25; Sp. p. 5880; Gaz. vol. 179; p. 1006.
Railways, Apparatus for controlling the traffic on single-line. E. Tyer. No. 1,024,233; Apr. 23; Sp. p. 5317; Gaz. vol. 177; p. 931.
Railways, Automatic brake-applying means for. A. Minnick. No. 1,029,210; June 11; Sp. p. 2468; Gaz. vol. 179; p. 420.
Railways, Circuit-closing device or switch for use in connection with electric or other. W. Grunow, Jr. No. 1,040,941; Oct. 8; Gaz. vol. 183; p. 460.
Railways, Electric semaphore-signal for. W. K. Howe. No. 1,019,046; Mar. 5; Sp. p. 76; Gaz. vol. 176; p. 15.
Railways, Flanger for. N. E. Lister. No. 1,019,811; Mar. 12; Sp. p. 1728; Gaz. vol. 176; p. 302.
Railways, Handle-bar mechanism for pleasure-. J. A. Miller. No. 1,037,957; Sept. 10; Gaz. vol. 182; p. 296.
Railways, Handle-bar mechanism, Gaz. vol. 182; p. 367.
Railways, Hauling-rope grip for rope. F. Dohle. No. 1,031,328; July 2; Gaz. vol. 180; p. 169.
Railways, Safety attachment for rolling-stock of. A. Jordan. No. 1,048,078; Dec. 24; Gaz. vol. 185; p. 889.
Railways, Silencer for. W. G. Knight. No. 1,020,507; Mar. 19; Sp. p. 3173; Gaz. vol. 176; p. 570.
Railways, Traffic-controlling system for. C. J. Coleman. No. 1,025,371; May 7; Sp. p. 592; Gaz. vol. 178; p. 92.
Railways, Underground conduit for electric. J. C. Mires. No. 1,014,892; Jan. 16; Sp. p. 4023; Gaz. vol. 174; p. 680.
Raisin-seeders, Making impaling-rolls for. A. R. Thompson. No. 1,038,682; Sept. 17; Gaz. vol. 182; p. 577.
Raisin-separating machine. G. L. Langer. No. 1,042,570; Oct. 29; Gaz. vol. 183; p. 1108.
Raisin-stemmer. W. C. Anderson. No. 1,048,269; Dec. 24; Gaz. vol. 185; p. 952.
Rake: *See* Cultivator-rake; Hay-rake; Horse lift-rake; Wheeled rake.
Rake. A. B. Mezza. No. 1,013,556; Jan. 2; Sp. p. 1014; Gaz. vol. 174; p. 162.
Rake. S. E. Norman. No. 1,014,250; Jan. 9; Sp. p. 2588; Gaz. vol. 174; p. 432.
Rake. L. E. Greene. No. 1,020,387; Mar. 12; Sp. p. 2910; Gaz. vol. 176; p. 493.
Rake. O. P. Huish. No. 1,023,849; Apr. 23; Sp. p. 4440; Gaz. vol. 177; p. 797.
Rake. A. K. Gilson. No. 1,029,988; June 18; Sp. p. 4184; Gaz. vol 179; p. 725.
Rake. E. G. Cronk. No. 1,045,263; Nov. 26; Gaz. vol. 184; p. 861.
Rake. J. N. Westerberg and D. Olson. No. 1,046,045; Dec. 3; Gaz. vol. 185; p. 85.
Rake. E. P. Brady. No. 1,046,144; Dec. 3; Gaz. vol. 185; p. 119.
Rake and pitchfork, Combined. I. F. Bilbro. No. 1,041,416; Oct. 15; Gaz. vol. 183; p. 655.
Rake and tedder, Side-delivery. O. F. Smith. No. 1,043,476; Nov. 5; Gaz. vol. 184; p. 154.
Rake attachment. J. Ettinghaus. No. 1,032,535; July 16; Gaz. vol. 180; p. 665.
Rake-cleaning attachment, Hand-. W. E. Holderman. No. 1,021,461; Mar. 26; Sp. p. 5233; Gaz. vol. 176; p. 946.
Rake-driving mechanism. F. G. Sargent. No. 1,047,117; Dec. 10; Gaz. vol. 185; p. 494.
Rake fork, Garden-. G. A. Osterud. No. 1,046,849; Dec. 10; Gaz. vol. 185; p. 405.
Rake frame, Hay-. W. M. Bering and J. N. J. Hilbert. No. 1,034,957; Aug. 6; Gaz. vol. 181; p. 186.
Rake pusher attachment, Hay-. B. F. and J. W. Lewis. No. 1,038,163; Sept. 10; Gaz. vol. 182; p. 364.
Rake shield attachment, Sulky-. J. M. Wilson. No. 1,022,216; Apr. 2; Sp. p. 983; Gaz. vol. 177; p. 158.
Rake-tooth point. H. A. Smith. No. 1,025,322; May 7; Sp. p. 485; Gaz. vol. 178; p. 75.
Rake unloading attachment, Sweep-. J. H. Cope. No. 1,034,692; Aug. 6; Gaz. vol. 181; p. 96.
Rakes, Frame-adjusting mechanism for side-delivery. J. A. Sharp. No. 1,019,849; Mar. 12; Sp. p. 1799; Gaz. vol. 176; p. 315.
Rakes, Pusher attachment for sweep-. P. J. Englund. No. 1,030,292; June 25; Sp. p. 4855; Gaz. vol. 179; p. 869.
Ram cylinder, Hydraulic-. O. P. Bushnell. No. 1,049,204; Dec. 31; Gaz. vol. 185; p. 1312.
Ram, Duplex hydraulic. R. Y. Bovee. No. 1,038,719; Sept. 17; Gaz. vol. 182; p. 590.
Ram, Hydraulic. A. H. Francfort. No. 1,015,949; Jan. 30; Sp. p. 6282; Gaz. vol. 174; p. 1093.
Ram, Hydraulic. S. B., C. E., and W. R. Hill. No. 1,016,409; Feb. 6; Sp. p. 383; Gaz. vol. 175; p. 61
Ram, Hydraulic. J. D. Weaver. No. 1,026,890; May 21; Sp. p. 3969; Gaz. vol. 178; p. 683.
Rammer. R. H. Staley. No. 1,044,589; Nov. 19; Gaz. vol. 184; p. 599.
Rammer, Hand-. F. Wegener. No. 1,026,891; May 21; Sp. p. 3971; Gaz. vol. 178; p. 683.
Rammer, Hand-. F. Wegener. No. 1,038,039; Sept. 10; Gaz. vol. 182; p. 323.
Ramming-machine, Jolt. L. M. Atha and E. H. Mumford. No. 1,040,989; Oct. 15; Gaz. vol. 183; p. 511.
Range burner, Kitchen-. C. H. Miller. No. 1,040,375; Oct. 8; Gaz. vol. 183; p. 266.
Range-finder. A. Barr and W. Stroud. No. 1,018,548; Feb. 27; Sp. p. 5187; Gaz. vol. 175; p. 902.
Range-finder. A. A. Michelson. No. 1,030,846; June 25; Sp. p. 6424; Gaz. vol. 179; p. 1070.
Range-finder. J. S. Boyum. No. 1,032,874; July 16; Gaz. vol. 180; p. 782.
Range-finder. J. S. Boyum. No. 1,032,986; July 16; Gaz. vol. 180; p. 818.
Range-finder cradle. J. S. Boyum. No. 1,032,873; July 16; Gaz. vol. 180; p. 781.
Range-finder, Short-base. H. D. Taylor. No. 1,013,849; Jan. 2; Sp. p. 1669; Gaz. vol. 174; p. 265.
Range-finder, Single-observer. A. Barr and W. Stroud. No. 1,019,412; Mar. 5; Sp. p. 952; Gaz. vol. 176; p. 246.
Range, Gas-. M. W. Longfellow. No. 1,013,790; Jan. 2; Sp. p. 1532; Gaz. vol. 174; p. 243.
Range, Gas-. F. A. Nieberding and E. V. Coulston. No. 1,047,435; Dec. 17; Gaz. vol. 185; p. 638.
Ranges, Electric heater for. L. F. Parkhurst. No. 1,045,320; Nov. 26; Gaz. vol. 184; p. 880.
Ranges, Heat-distributing device for gas-. W. A. Schoenhaar. No. 1,048,355; Dec. 24; Gaz. vol. 185; p. 982.
Ranges or stoves, Water-tank attachment for. F. R. Henry. No. 1,031,263; July 2; Gaz. vol. 180; p. 147.
Rasp. L. B. Hamilton. No. 1,032,897; July 16; Gaz. vol. 180; p. 789.
Rasp, Rotary. B. Ackerman. No. 1,023,406; Apr. 16; Sp. p. 3533; Gaz. vol. 177; p. 629.
Rat-exterminator, Electric. J. W. M. Carmichael. No. 1,034,976; Aug. 6; Gaz. vol. 181; p. 193.
Rat-trap. R. Nye. No. 1,026,362; May 14; Sp. p. 2823; Gaz. vol. 178; p. 467.
Rat-trap. S. Molnár. No. 1,029,551; June 11; Sp. p. 3213; Gaz. vol. 179; p. 538.
Rat-trap. E. K. Schwing. No. 1,030,750; June 25; Sp. p. 6071; Gaz. vol. 179; p. 1034.
Rat-trap. H. Haxton. No. 1,031,442; July 2; Gaz. vol. 180; p. 207.
Rat-trap. H. M. Sprague. No. 1,038,672; Sept. 17; Gaz. vol. 182; p. 573.
Rat-trap. S. Lotz. No. 1,040,961; Oct. 8; Gaz. vol. 183; p. 467.
Rat-trap. C. A. Lindberg. No. 1,044,202; Nov. 12; Gaz. vol. 184; p. 435.
Rat-trap. J. A. Blackey. No. 1,046,951; Dec. 10; Gaz. vol. 185; p. 440.
Rat-trap. M. Morawiecki. No. 1,048,995; Dec. 31; Gaz. vol. 185; p. 1241.
Rat-trap, Electric. W. Zaniewski. No. 1,023,608; Apr. 16; Sp. p. 3947; Gaz. vol. 177; p. 693.
Rat-trap, Electric J. Balint. No. 1,024,967; Apr. 30; Sp. p. 6934; Gaz. vol. 177; p. 1219.
Rat-trap, Electric. L. Karpów. No. 1,030,093; June 18; Sp. p. 4418; Gaz. vol. 179; p. 763.
Rat-trap, Electric. J. Cresko. No. 1,033,579; July 23; Gaz. vol. 180; p. 1056.
Rat-trap, Electric. A. Kita. No. 1,034,251; July 30; Gaz. vol. 180; p. 1314.
Rat-trap, Electric. M. Kruczynski. No. 1,038,902; Sept. 17; Gaz vol. 182; p. 654.
Rat-trap, Electric. W. S. Mock. No. 1,045,584; Nov. 26; Gaz. vol. 184; p. 975.
Rat-trap, Electric. R. Clifford. No. 1,045,676; Nov. 23; Gaz. vol. 184; p. 1009.
Rat-trap, Electric. A. Morawski. No. 1,047,682; Dec. 17; Gaz. vol. 185; p. 728.
Ratchet-brace. A. A. A. Byrd and W. A. Lowden. No. 1,045,509; Nov. 26; Gaz. vol. 184; p. 948.
Ratchet-brace feed mechanism. J. Dahn. No. 1,036,577; Aug. 27; Gaz. vol. 181; p. 843.
Ratchet-drill. C. B. Groff. No. 1,013,653; Jan. 2; Sp. p. 1242; Gaz. vol. 174; p. 195.
Ratchet locking mechanism. F. Kohnle. No. 1,025,530; May 7; Sp. p. 951; Gaz. vol. 178; p. 147.
Ratchet mechanism. G. O. Leopold. No. 1,027,261; May 21; Sp. p. 4805; Gaz. vol. 178; p. 810.
Ratchet-tool. W. A. Plath and H. L. Risedorf. No. 1,015,067; Jan. 16; Sp. p. 4402; Gaz. vol. 174; p. 739.
Ratchet-wrench. D. E. Haines. No. 1,014,463; Jan. 9; Sp. p. 3038; Gaz. vol. 174; p. 504.
Ratchet-wrench. F. Mossberg. No. 1,019,825; Mar. 12; Sp. p. 1749; Gaz. vol. 176; p. 306.
Ratchet-wrench. W. G. Ruscoe. No. 1,022,208; Apr. 2; Sp. 968; Gaz. vol. 177; p. 155.
Ratchet-wrench. J. F. Bosserman. No. 1,029,271; June 11; Sp. p. 2595; Gaz. vol. 179; p. 441.

Ratchet-wrench. C. A. Geist. No. 1,041,064; Oct. 15; Gaz. vol. 183; p. 536.
Ration, Compressed feed-. N. C. Sniverick. No. 1,032,511; July 16; Gaz. vol. 180; p. 658.
Rawhide, Treatment of. A. H. Henderson. No. 1,020,498; Mar. 19; Sp. p. 3155; Gaz. vol. 176; p. 567.
Razor. C. H. Ocumpaugh. No. 1,013,805; Jan. 2; Sp. p. 1563; Gaz. vol. 174; p. 248.
Razor. F. Meyer. No. 1,015,575; Jan. 23; Sp. p. 5487; Gaz. vol. 174; p. 939.
Razor. H. E. S. Holt. No. 1,016,267; Feb. 6; Sp. p. 51; Gaz. vol. 175; p. 11.
Razor. H. E. S. Holt. No. 1,018,420; Feb. 27; Sp. p. 4845; Gaz. vol. 175; p. 858.
Razor. H. J. Gaisman. No. 1,022,727; Apr. 9; Sp. p. 2102; Gaz. vol. 177; p. 360.
Razor. F. May and J. H. Bleoo. No. 1,022,860; Apr. 9; Sp. p. 2365; Gaz. vol. 177; p. 405.
Razor. G. M. Hiskey. No. 1,033,321; July 23; Gaz. vol. 180; p. 972.
Razor. H. J. Gaisman. No. 1,039,377; Sept. 24; Gaz. vol. 182; p. 833.
Razor. G. O. Litt. No. 1,044,671; Nov. 19; Gaz. vol. 184; p. 628.
Razor. A. Bemmerer. No. 1,044,730; Nov. 19; Gaz. vol. 184; p. 648.
Razor. [illegible] A. Ohlsson. No. 1,044,906; Nov. 19; Gaz. vol. 184; p. 799.
Razor blade stropper. [illegible] Cole. No. [illegible]
May 14; Sp. p. 1912; Gaz. vol. 178; p. 329.
Razor and scissors. Combined. K. Hajdú. No. 1,013,159; Jan. 2; Sp. p. 142; Gaz. vol. 174; p. 25.
Razor-blade-polishing machine. J. E. Drew. No. 1,046,157; Dec. 3; Gaz. vol. 185; p. 123.
Razor blade, Safety-. L. H. Cress. No. 1,047,617; Dec. 17; Gaz. vol. 185; p. 704.
Razor blades, Device for holding safety-. L. W. Stetson. No. 1,028,626; June 4; Sp. p. 1218; Gaz. vol. 179; p. 187.
Razor blades, Locking device for safety-. F. W. Groschopp. No. 1,046,179; Dec. 3; Gaz. vol. 185; p. 130.
Razor frame, Safety-. R. Kampfe. No. 1,013,602; Jan. 2; Sp. p. 1106; Gaz. vol. 174; p. 178.
Razor-guard. C. S. Tate. No. 1,034,743; Aug. 6; Gaz. vol. 181; p. 115.
Razor-handle. H. W. Thompson. No. 1,039,215; Sept. 24; Gaz. vol. 182; p. 775.
Razor-honing machine. J. Kayetan. No. 1,030,256; June 18; Sp. p. 4750; Gaz. vol. 179; p. 817.
Razor, Multibladed. H. C. Harrison. No. 1,024,509; Apr. 30; Sp. p. 5933; Gaz. vol. 177; p. 1058.
Razor, Revolving-. W. E. Travers. No. 1,014,187; Jan. 9; Sp. p. 2428; Gaz. vol. 174; p. 407.
Razor, Safety-. W. V. Baker. No. 1,013,360; Jan. 2; Sp. p. 599; Gaz. vol. 174; p. 95.
Razor, Safety-. S. Adler. No. 1,014,431; Jan. 9; Sp. p. 2981; Gaz. vol. 174; p. 494.
Razor, Safety-. W. Winter. No. 1,015,114; Jan. 16; Sp. p. 4489; Gaz. vol. 174; p. 756.
Razor, Safety-. J. A. Makarhof. No. 1,016,344; Feb. 6; Sp. p. 247; Gaz. vol. 175; p. 38.
Razor, Safety-. H. Christiansen. No. 1,017,138; Feb. 13; Sp. p. 2025; Gaz. vol. 175; p. 348.
Razor, Safety-. J. P. Paddington. No. 1,017,166; Feb. 13; Sp. p. 2080; Gaz. vol. 175; p. 358.
Razor, Safety-. F. E. Blodgett. No. 1,017,199; Feb. 13; Sp. p. 2160; Gaz. vol. 175; p. 369.
Razor, Safety-. J. Gelin. No. 1,017,866; Feb. 20; Sp. p. 3616; Gaz. vol. 175; p. 633.
Razor, Safety-. L. Nahemow. No. 1,018,437; Feb. 27; Sp. p. 4877; Gaz. vol. 175; p. 863.
Razor, Safety-. A. W. Scheuber. No. 1,018,783; Feb. 27; Sp. p. 5677; Gaz. vol. 175; p. 981.
Razor, Safety-. A. Büttner. No. 1,019,303; Mar. 5; Sp. p. 671; Gaz. vol. 176; p. 104.
Razor, Safety-. B. C. Buck. No. 1,020,796; Mar. 19; Sp. p. 3814; Gaz. vol. 176; p. 668.
Razor, Safety-. R. Rubens. No. 1,021,003; Mar. 26; Sp. p. 4249; Gaz. vol. 176; p. 789.
Razor, Safety-. E. C. Madden. No. 1,022,429; Apr. 9; Sp. p. 1437; Gaz. vol. 177; p. 257.
Razor, Safety-. C. E. Dunn. No. 1,022,623; Apr. 9; Sp. p. 1837; Gaz. vol. 177; p. 322.
Razor, Safety-. H. J. Gaisman. No. 1,022,726; Apr. 9; Sp. p. 2096; Gaz. vol. 177; p. 360.
Razor, Safety-. H. J. Gaisman. No. 1,022,728; Apr. 9; Sp. p. 2107; Gaz. vol. 177; p. 361.
Razor, Safety-. H. J. Gaisman. No. 1,022,729; Apr. 9; Sp. p. 2108; Gaz. vol. 177; p. 361.
Razor, Safety-. H. J. Gaisman. No. 1,022,730; Apr. 9; Sp. p. 2110; Gaz. vol. 177; p. 362.
Razor, Safety-. H. J. Gaisman. No. 1,022,731; Apr. 9; Sp. p. 2112; Gaz. vol. 177; p. 362.
Razor, Safety-. H. J. Gaisman. No. 1,022,732; Apr. 9; Sp. p. 2113; Gaz. vol. 177; p. 362.
Razor, Safety-. C. Jeremias. No. 1,023,206; Apr. 16; Sp. p. 3142; Gaz. vol. 177; p. 562.
Razor, Safety-. S. V. Dillon. No. 1,023,364; Apr. 16; Sp. p. 3442; Gaz. vol. 177; p. 615.
Razor, Safety-. J. Garret. No. 1,023,372; Apr. 16; Sp. p. 3457; Gaz. vol. 177; p. 617.
Razor, Safety-. J. N. Lorenzen. No. 1,024,348; Apr. 23; Sp. p. 5525; Gaz. vol. 177; p. 968.
Razor, Safety-. H. Hess. No. 1,024,402; Apr. 23; Sp. p. 5661; Gaz. vol. 177; p. 985.
Razor, Safety-. M. Hauser. No. 1,024,570; Apr. 30; Sp. p. 6104; Gaz. vol. 177; p. 1080.
Razor, Safety-. S. Hetlyn. No. 1,028,461; June 4; Sp. p. 878; Gaz. vol. 179; p. 132.
Razor, Safety-. H. C. Shannon. No. 1,030,023; June 18; Sp. p. 4256; Gaz. vol. 179; p. 737.
Razor, Safety-. F. D. Jones. No. 1,032,609; July 16; Gaz. vol. 180; p. 690.
Razor, Safety-. D. N. Barrett. No. 1,033,373; July 23; Gaz. vol. 180; p. 989.
Razor, Safety-. R. L. Boulter. No. 1,035,308; Aug. 13; Gaz. vol. 181; p. 336.
Razor, Safety-. W. J. A. Dickenson. No. 1,035,548; Aug. 13; Gaz. vol. 181; p. 419.
Razor, Safety-. J. A. Service. No. 1,038,666; Sept. 17; Gaz. vol. 182; p. 571.
Razor, Safety-. O. Kampfe. No. 1,040,347; Oct. 8; Gaz. vol. 183; p. 257.
Razor, Safety-. D. W. Wood. No. 1,041,397; Oct. 15; Gaz. vol. 183; p. 649.
Razor, Safety-. L. H. Bean. No. 1,044,476; Nov. 19; Gaz. vol. 184; p. 559.
Razor, Safety-. L. H. Cress, A. Novitsky, and H. W. Greenbrier. No. 1,044,863; Nov. 19; Gaz. vol. 184;
Razor, Safety-. J. F. Murray. No. [illegible]; Dec. 3; Gaz. vol. 185; p. 71.
Razor, Safety-. A. M. MacFarland. No. 1,048,085; Dec. 24; Gaz. vol. 185; p. 892.
Razor, Safety-. C. L. Harley. No. 1,048,154; Dec. 24; Gaz. vol. 185; p. 915.
Razor, Safety-. J. A. Horton. No. 1,048,696; Dec. 31; Gaz. vol. 185; p. 1140.
Razor, Safety-. L. D. Saxton. No. 1,048,893; Dec. 31; Gaz. vol. 185; p. 1207.
Razor, Safety-. S. Adler. No. 1,049,031; Dec. 31; Gaz. vol. 185; p. 1255.
Razor, Safety-. A. Bemmerer. No. 1,049,198; Dec. 31; Gaz. vol. 185; p. 1310.
Razor, Safety-. C. W. Arnold. No. 1,049,320; Dec. 31; Gaz. vol. 185; p. 1353.
Razor-sterilizer. M. Goldstein. No. 1,020,038; Mar. 12; Sp. p. 2199; Gaz. vol. 176; p. 379.
Razor-strop. P. H. Alpp. No. 1,016,599; Feb. 6; Sp. p. 844; Gaz. vol. 175; p. 126.
Razor-strop. E. H. Shafer. No. 1,032,954; July 16; Gaz. vol. 180; p. 806.
Razor-strop. W. P. Harthan. No. 1,033,169; July 23; Gaz. vol. 180; p. 919.
Razor-stropper. D. Waters. No. 1,019,105; Mar. 5; Sp. p. 210; Gaz. vol. 176; p. 34.
Razor-stropper. F. Myers. No. 1,036,687; Aug. 27; Gaz. vol. 181; p. 879.
Razor-stropper. C. M. Herring. No. 1,041,789; Oct. 22; Gaz. vol. 183; p. 816.
Razor stropper and honer. A. C. Hayden. No. 1,022,549; Apr. 9; Sp. p. 1675; Gaz. vol. 177; p. 297.
Razor stropping and grinding machine. W. J. McCollom. No. 1,034,132; July 30; Gaz. vol. 180; p. 1271.
Razor-stropping device. J. B. Brockhurst. No. 1,015,938; Jan. 30; Sp. p. 6256; Gaz. vol. 174; p. 1090.
Razor-stropping device. J. W. Horner. No. 1,024,404; Apr. 23; Sp. p. 5664; Gaz. vol. 177; p. 986.
Razor-stropping device. S. L. Long. No. 1,031,130; July 2; Gaz. vol. 180; p. 100.
Razor-stropping device. A. C. Rodibaugh. No. 1,039,445; Sept. 24; Gaz. vol. 182; p. 855.
Razor-stropping device. A. M. Stuart. No. 1,046,505; Dec. 10; Gaz. vol. 185; p. 285.
Razor-stropping device, Mechanical. J. F. MacIndoe. No. 1,014,602; Jan. 9; Sp. p. 3301; Gaz. vol. 174; p. 549.
Razor-stropping device, Mechanical. J. F. MacIndoe. No. 1,043,242; Nov. 5; Gaz. vol. 184; p. 69.
Razor-stropping device, Safety-. L. D. Saxton. No. 1,017,325; Feb. 13; Sp. p. 2430; Gaz. vol. 175; p. 412.
Razor-stropping device, Safety-. C. D. and C. B. Coffman. No. 1,031,527; July 2; Gaz. vol. 180; p. 235.
Razor-stropping machine. I. Buchler. No. 1,016,931; Feb. 13; Sp. p. 1548; Gaz. vol. 175; p. 275.
Razor-stropping machine. A. J. Postans. No. 1,021,795; Apr. 2; Sp. p. 79; Gaz. vol. 177; p. 17.
Razor-stropping machine. M. L. Brandt. No. 1,025,119; May 7; Sp. p. 8; Gaz. vol. 178; p. 4.
Razor-stropping machine. M. L. Brandt. No. 1,025,120; May 7; Sp. p. 9; Gaz. vol. 178; p. 4.
Razor-stropping machine. I. Buchler. No. 1,029,911; June 18; Sp. p. 4032; Gaz. vol. 179; p. 700.
Razor-stropping machine. M. L. Brandt. No. 1,032,586; July 16; Gaz. vol. 180; p. 683.
Razor-stropping machine. C. Jeremias. No. 1,047,646; Dec. 17; Gaz. vol. 185; p. 714.
Razors and razor-blades, Machine for honing and stropping. C. A. Mann. No. 1,039,561; Sept. 24; Gaz. vol. 182; p. 897.
Reactance-coil. T. E. Murray and P. Torchio. No. 1,017,348; Feb. 13; Sp. p. 2473; Gaz. vol. 175; p. 420.

Alphabetical list of inventions—Continued.

Reaction apparatus. H. D. Hibberd. No. 1,047,052; Dec. 10; Gaz. vol. 185; p. 472.
Reading-glass. F. E. Peterson. No. 1,044,814; Nov. 19; Gaz. vol. 184; p. 678.
Reamer. W. McColgan. No. 1,019,679; Mar. 5; Sp. p. 1470; Gaz. vol. 176; p. 227.
Reamer. C. A. O'Connor and F. Riley. No. 1,043,965; Nov. 12; Gaz. vol. 184; p. 355.
Reamer. C. C. Upham. No. 1,048,378; Dec. 24; Gaz. vol. 185; p. 990.
Reamer, Adjustable. J. A. Etzold and R. H. North. No. 1,024,399; Apr. 23; Sp. p. 5657; Gaz. vol. 177; p. 985.
Reamer and threader, Combined. H. E. Robinson. No. 1,041,675; Oct. 15; Gaz. vol. 183; p. 740.
Reamer, Expanding. J. Kaefer. No. 1,038,384; Sept. 10; Gaz. vol. 182; p. 438.
Reamer, Expansible. W. Turney. No. 1,031,030; July 2; Gaz. vol. 180; p. 64.
Reamer, Expansion-. D. H. Dugar. No. 1,033,998; July 30; Gaz. vol. 180; p. 1225.
Reamer-holder. J. K. Bigelow. No. 1,045,935; Dec. 3; Gaz. vol. 185; p. 47.
Reamer support, Floating-. C. C. Blood. No. 1,027,520; May 28; Sp. p. 5340; Gaz. vol. 178; p. 935.
Reaming-machine. G. Mateer. (Reissue.) No. 13,422; May 21; Sp. p. 5096; Gaz. vol. 178; p. 857.
Reaming-tool. E. E. Davis. No. 1,046,739; Dec. 10; Gaz. vol. 185; p. 368.
Reaming-tool. E. A. Midgley and M. H. Scarlet. No. 1,049,125; Dec. 31; Gaz. vol. 185; p. 1287.
Rearer for puppies and kittens. E. E. Rogers. No. 1,041,167; Oct. 15; Gaz. vol. 183; p. 571.
Receipt-billing machine, Express-. W. C. Goodman. No. 1,016,823; Feb. 6; Sp. p. 1310; Gaz. vol. 175; p. 201.
Receipting-recorder, Collector's. A. W. Hayes and C. D. Stevens. No. 1,041,624; Oct. 15; Gaz. vol. 183; p. 721.
Receptacle. M. M. Looram. No. 1,014,601; Jan. 9; Sp. p. 3299; Gaz. vol. 174; p. 548.
Receptacle. E. R. Loweree. No. 1,016,755; Feb. 6; Sp. p. 1165; Gaz. vol. 175; p. 180.
Receptacle. B. W. Newman. No. 1,023,675; Apr. 16; Sp. p. 4062; Gaz. vol. 177; p. 712.
Receptacle. W. Downie. No. 1,032,472; July 16; Gaz. vol. 180; p. 645.
Receptacle. W. J. Hamilton. No. 1,032,827; July 16; Gaz. vol. 180; p. 766.
Receptacle. C. D. Lukens. No. 1,039,981; Oct. 1; Gaz. vol. 183; p. 103.
Receptacle. J. F. Patterson. No. 1,040,574; Oct. 8; Gaz. vol. 183; p. 336.
Receptacle. C. T. Siebert. No. 1,040,792; Oct. 8; Gaz. vol. 183; p. 412.
Receptacle. F. A. Kane. No. 1,042,448; Oct. 29; Gaz. vol. 183; p. 1066.
Receptacle-closure. J. J. Holland. No. 1,018,495; Feb. 27; Sp. p. 5018; Gaz. vol. 175; p. 883.
Receptacle-closure. D. Bloom. No. 1,027,685; May 28; Sp. p. 5685; Gaz. vol. 178; p. 990.
Receptacle-closure. A. M. Jess. No. 1,032,836; July 16; Gaz. vol. 180; p. 770.
Receptacle-closure and cup. R. Weimer. No. 1,013,830; Jan. 2; Sp. p. 1611; Gaz. vol. 174; p. 257.
Receptacle-closure-marking machine. H. J. Douglass. No. 1,026,790; May 21; Sp. p. 3745; Gaz. vol. 178; p. 648.
Receptacle closures or caps, Means for forming. J. T. Bond. No. 1,047,373; Dec. 17; Gaz. vol. 185; p. 618.
Receptacle, Collapsible. E. von Vargyas. No. 1,021,853; Apr. 2; Sp. p. 218; Gaz. vol. 177; p. 36.
Receptacle, Collapsible. E. Von Vargyas and J. W. Deidrick. No. 1,025,659; May 7; Sp. p. 1234; Gaz. vol. 178; p. 190.
Receptacle, Collapsible. J. Cohen. No. 1,037,132; Aug. 27; Gaz. vol. 181; p. 1027.
Receptacle, Commodity-. D. H. Mosteller. No. 1,027,353; May 21; Sp. p. 4990; Gaz. vol. 178; p. 841.
Receptacle-cover. H. A. Gibbs. No. 1,042,428; Oct. 29; Gaz. vol. 183; p. 1059.
Receptacle cover or closure. A. P. Anderson. No. 1,035,841; Aug. 20; Gaz. vol. 181; p. 554.
Receptacle, Divisional. J. A. Phin. No. 1,038,644; Sept. 17; Gaz. vol. 182; p. 564.
Receptacle, Dumping-. J. W. King. No. 1,043,845; Nov. 12; Gaz. vol. 184; p. 312.
Receptacle, Electrically-heated. J. M. Roe. No. 1,046,859; Dec. 10; Gaz. vol. 185; p. 408.
Receptacle-filling apparatus, Liquid-. P. M. Blackman and W. Marshall. No. 1,026,145; May 14; Sp. p. 2329; Gaz. vol. 178; p. 393.
Receptacle, Fluid-. C. J. Schuster. No. 1,025,952; May 7; Sp. p. 1886; Gaz. vol. 178; p. 289.
Receptacle, Fluid-. P. E. Tanner. No. 1,046,506; Dec. 10; Gaz. vol. 185; p. 285.
Receptacle for containing and discharging semisolid and pasty substances. J. F. Craven. No. 1,021,451; Mar. 26; Sp. p. 5213; Gaz. vol. 176; p. 942.
Receptacle for containing and discharging semisolid and pasty substances. J. F. Craven. No. 1,021,452; Mar. 26; Sp. p. 5215; Gaz. vol. 176; p. 943.
Receptacle for containing and discharging semisolid and pasty substances. J. F. Craven. No. 1,025,511; May 7; Sp. p. 899; Gaz. vol. 178; p. 140.
Receptacle for containing and discharging semisolid and pasty substances. J. F. Craven. No. 1,025,512; May 7; Sp. p. 901; Gaz. vol. 178; p. 141.
Receptacle for containing and discharging semisolid and pasty substances. J. F. Craven. No. 1,036,969; Aug. 27; Gaz. vol. 181; p. 972.
Receptacle for containing and discharging semisolid and pasty substances. J. F. Craven. No. 1,036,970; Aug. 27; Gaz. vol. 181; p. 973.
Receptacle for containing and discharging semisolid and pasty substances. J. F. Craven. No. 1,036,971; Aug. 27; Gaz. vol. 181; p. 973.
Receptacle for containing and discharging solid and semisolid substances. J. F. Craven. No. 1,025,513; May 7; Sp. p. 902; Gaz. vol. 178; p. 141.
Receptacle for mustard and other condiments. A. J. Greaves. No. 1,024,988; Apr. 30; Sp. p. 6976; Gaz. vol. 177; p. 1226.
Receptacle for thread, cord, silk, and the like. C. J. Ulmann. No. 1,029,094; June 11; Sp. p. 2231; Gaz. vol. 179; p. 381.
Receptacle-handle. P. Grabler. No. 1,038,116; Sept. 10; Gaz. vol. 182; p. 347.
Receptacle-joint. T. E. Camp. No. 1,042,081; Oct. 22; Gaz. vol. 183; p. 915.
Receptacle, Knockdown. O. M. Stiehl. No. 1,038,017; Sept. 10; Gaz. vol. 182; p. 316.
Receptacle, Liquid-. T. Bumann. No. 1,015,420; Jan. 23; Sp. p. 5151; Gaz. vol. 174; p. 885.
Receptacle, Liquid-. W. F. Pierce. No. 1,025,834; May 7; Sp. p. 1584; Gaz. vol. 178; p. 251.
Receptacle, Locking-. P. W. Hodgkinson. No. 1,038,583; Sept. 17; Gaz. vol. 182; p. 542.
Receptacle made of paper and similar sheet material. J. C. Coram. No. 1,030,163; June 18; Sp. p. 4542; Gaz. vol. 179; p. 785.
Receptacle, Metallic. F. C. Panther. No. 1,030,121; June 18; Sp. p. 4463; Gaz. vol. 179; p. 771.
Receptacle, Metallic. B. F. Faunce. No. 1,043,412; Nov. 5; Gaz. vol. 184; p. 131.
Receptacle or package of compressed paper and method of and means for making same. R. Senac. No. 1,023,764; Apr. 16; Sp. p. 4211; Gaz. vol. 177; p. 739.
Receptacle, Pocket-. A. C. E. Erichsen. No. 1,032,326; July 9; Gaz. vol. 180; p. 551.
Receptacle, Safety-. C. F. Ritchel. No. 1,018,444; Feb. 27; Sp. p. 4894; Gaz. vol. 175; p. 865.
Receptacle, Safety-. W. Winkelmann. No. 1,033,647; July 23; Gaz. vol. 180; p. 1078.
Receptacle, Sanitary. L. Hofer. No. 1,037,625; Sept. 3; Gaz. vol. 182; p. 149.
Receptacle-stopper. L. Wojidkow. No. 1,045,100; Nov. 19; Gaz. vol. 184; p. 776.
Receptacle-support, Adjustable. H. H. Johnson. No. 1,030,090; June 18; Sp. p. 4413; Gaz. vol. 179; p. 762.
Receptacle-supporting device. O. P. Mason. No. 1,048,986; Dec. 31; Gaz. vol. 185; p. 1238.
Receptacle, Three-compartment. C. B. and C. D. McDonald. No. 1,019,010; Feb. 27; Sp. p. 6168; Gaz. vol. 175; p. 1059.
Receptacle, Vacuum wall-. O. J. W. Higbee. No. 1,033,320; July 23; Gaz. vol. 180; p. 972.
Receptacles, Apparatus for controlling the condition of closed. E. B. Smith. No. 1,013,963; Jan. 9; Sp. p. 1959; Gaz. vol. 174; p. 332.
Receptacles, Apparatus for preventing fraudulent refilling of liquid-. M. M. Ré. No. 1,047,446; Dec. 17; Gaz. vol. 185; p. 642.
Receptacles, Covering. I. Hirsohn. No. 1,036,237; Aug. 20; Gaz. vol. 181; p. 693.
Receptacles, Manufacturing. W. R. Comings. (Reissue.) No. 13,433; June 25; Sp. p. 6456; Gaz. vol. 179; p. 1076.
Reciprocating engine. A. J. Jackson. No. 1,024,581; Apr. 30; Sp. p. 6122; Gaz. vol. 177; p. 1083.
Reciprocating engine. C. Martens. No. 1,032,689; July 16; Gaz. vol. 180; p. 720.
Reciprocating engine. R. Wintzer. No. 1,037,840; Sept. 3; Gaz. vol. 182; p. 220.
Reciprocating engine and turbine plant, Combined. W. Schmidt. No. 1,044,693; Nov. 19; Gaz. vol. 184; p. 636.
Reciprocating motor. W. H. Keller and S. D. Sibley. No. 1,043,320; Nov. 5; Gaz. vol. 184; p. 99.
Reciprocating motor. W. H. Keller and S. D. Sibley. No. 1,043,573; Nov. 5; Gaz. vol. 184; p. 189.
Reciprocating movements, Attachment for operating devices by. J. M. Christine. No. 1,041,428; Oct. 15; Gaz. vol. 183; p. 658.
Reclining-chair. E. H. Milner. No. 1,015,452; Jan. 23; Sp. p. 5213; Gaz. vol. 174; p. 896.
Recoil-arrester. W. J. King. No. 1,038,390; Sept. 10; Gaz. vol. 182; p. 440.
Recoil-arrester. W. J. King. No. 1,044,188; Nov. 12; Gaz. vol. 184; p. 430.
Recoil mechanism. E. Gray. No. 1,042,551; Oct. 29; Gaz. vol. 183; p. 1102.
Recoil-neutralizer. A. C. Buttman and F. P. Gable. No. 1,017,953; Feb. 20; Sp. p. 3833; Gaz. vol. 175; p. 664.
Record-card system, Hotel-. P. Klein. No. 1,040,550; Oct. 8; Gaz. vol. 183; p. 327.

Record case, Disk-. F. W. Wood. No. 1,014,929; Jan. 16; Sp. p. 4112; Gaz. vol. 174; p. 693.
Record-disk holder. L. C. Wiswell. No. 1,013,916; Jan. 9; Sp. p. 1841; Gaz. vol. 174; p. 315.
Record-keeper. J. Miller. No. 1,046,000; Dec. 3; Gaz. vol. 185; p. 69.
Records, Apparatus for obtaining double. D. Higham. No. 1,036,236; Aug. 20; Gaz. vol. 181; p. 693.
Records, Magazine for disk. T. D. Foster. No. 1,042,542; Oct. 29; Gaz. vol. 183; p. 1099.
Recorder: *See* Activity-recorder; Cash-recorder; Fare-recorder; Graphic recorder; Music-recorder; Pressure-recorder; Receipting-recorder; Speed-recorder; Speed and time recorder; Speedometer-recorder; Telephone-call recorder; Temperature-recorder; Time-recorder; Vacuum-recorder; Vibration-recorder.
Recorder or indicator. F. Reed and W. Rickardson. No. 1,040,240; Oct. 1; Gaz. vol. 193; p. 190.
Recorders, System of operation for synchronizing. E. O. Schweitzer. No. 1,030,925; July 2; Gaz. vol. 180; p. 25.
Recording and adding machine. G. W. Dudley. No. 1,019,231; Mar. 5; Sp. p. 490; Gaz. vol. 176; p. 78.
Recording and adding machine. S. B. Austin. No. 1,034,055; July 30; Gaz. vol. 180; p. 1246.
Recording and indicating device for multiple payments. B. J. Stellwagen. No. 1,038,225; Sept. 10; Gaz. vol. 182; p. 383.
Recording-clock or time-stamp. A. Storer. No. 1,032,714; July 16; Gaz. vol. 180; p. 729.
Recording device. G. F. Hoover. No. 1,029,062; June 11; Sp. p. 2153; Gaz. vol. 179; p. 371.
Recording device. C. B. Wattles. No. 1,044,835; Nov. 19; Gaz. vol. 184; p. 685.
Recording device. A. L. Marsh and J. Patrick. No 1,048,188; Dec. 24; Gaz. vol. 185; p. 926.
Recording instruments, Tape-feeding mechanism for. A. H. Martin. No. 1,017,984; Feb. 20; Sp. p. 3905; Gaz. vol. 175; p. 675.
Recording-key. C. F. Kettering. No. 1,041,802; Oct. 22; Gaz. vol. 183; p. 821.
Recording-lock. F. E. Benzing. No. 1,037,108; Aug. 27; Gaz. vol. 181; p. 1020.
Recording-machine. W. H. Bundy. No. 1,034,415; Aug. 6; Gaz. vol. 181; p. 5.
Recording marine conditions, Method of and apparatus for. H. T. Barnes. No. 1,022,526; Apr. 9; Sp. p. 1632; Gaz. vol. 177; p. 290.
Rectal dynamo. J. B. Wagoner. No. 1,042,624; Oct. 29; Gaz. vol. 183; p. 1128.
Rectal or pile supporter. C. F. Snyder. No. 1,032,712; July 16; Gaz. vol. 180; p. 729.
Rectifier. R. A. Hamann. No. 1,014,466; Jan. 9; Sp. p. 3041; Gaz. vol. 174; p. 504.
Rectifying device. J. H. W. Knoop. No. 1,045,566; Nov. 26; Gaz. vol. 184; p. 969.
Reducing-machine casing. M. F. Williams. No. 1,039,624; Sept. 24; Gaz. vol. 182; p. 919.
Reducing-mill. M. C. Peters. No. 1,015,246; Jan. 16; Sp. p. 4740; Gaz. vol. 174; p. 799.
Reed-pipe, Dust-proof. C. E. Barkstrom. No. 1,037,578; Sept. 3; Gaz. vol. 182; p. 135.
Reel: *See* Casting-reel; Clothes-reel; Clothes-line reel; Clothes-line hand-reel; Collapsible reel; Eyeglass-reel; Fish-line reel; Fish-net reel; Fish-rod reel; Fishing-reel; Hand-reel; Harvester-reel; Holder-reel; Hose-reel; Lamp-cord reel; Metallic reel; Paper-winding reel; Skein-reel; Twine-reel; Wire-reel.
Reel. G. H. Cowgill. No. 1,013,588; Jan. 2; Sp. p. 1068; Gaz. vol. 174; p. 173.
Reel. J. J. Molcar. No. 1,014,322; Jan. 9; Sp. p. 2734; Gaz. vol. 174; p. 455.
Reel. H. Kenward. No. 1,019,802; Mar. 12; Sp. p. 1716; Gaz. vol. 176; p. 300.
Reel. E. H. Broden and J. G. Mustin. No. 1,020,079; Mar. 12; Sp. p. 2277; Gaz. vol. 176; p. 392.
Reel. A. J. Isham. No. 1,021,606; Mar. 26; Sp. p. 5538; Gaz. vol. 176; p. 994.
Reel. F. Joseph. No. 1,028,770; June 4; Sp. p. 1509; Gaz. vol. 179; p. 235.
Reel. W. H. Kennedy. No. 1,033,906; July 30; Gaz. vol. 180; p. 1192.
Reel. W. A. Kilmer and S. Swanbum. No. 1,036,642; Aug. 27; Gaz. vol. 181; p. 865.
Reel. A. F. Rietzel. No. 1,036,714; Aug. 27; Gaz. vol. 181; p. 888.
Reel. M. D. Maxwell. No. 1,037,950; Sept. 10; Gaz. vol. 182; p. 293.
Reel and rack for the exhibition of wall-paper, Combination. J. A. Hall. No. 1,029,806; June 18; Sp. p. 3773; Gaz. vol. 179; p. 664.
Reel and supporting device for lines. M. Krulan and A. P. Lauster. No. 1,043,943; Nov. 12; Gaz. vol. 184; p. 347.
Reel-carrier. C. Flitch. No. 1,022,408; Apr. 9; Sp. p. 1368; Gaz. vol. 177; p. 251.
Reel connection. J. E. Anderson. No. 1,035,936; Aug. 20; Gaz. vol. 181; p. 586.
Reel-drum or the like. H. Parker. No. 1,015,244; Jan. 16; Sp. p. 4738; Gaz. vol. 174; p. 799.
Reel for strip material. R. A. Moore and A. S. Sutcliffe. No. 1,029,212; June 11; Sp. p. 2474; Gaz. vol. 179; p. 421.
Reel line-winding attachment. C. F. Capell. No. 1,043,397; Nov. 5; Gaz. vol. 184; p. 126.
Reel-support. W. H. Wetzel. No. 1,013,347; Jan. 2; Sp. p. 575; Gaz. vol. 174; p. 91.
Reelers, Automatic adjustment for. G. H. Blaxter. No. 1,040,862; Oct. 8; Gaz. vol. 183; p. 433.
Reeling device. B. F. Parker. No. 1,040,748; Oct. 8; Gaz. vol. 183; p. 398.
Reeling mechanism. A. C. Roebuck. No. 1,024,866; Apr. 30; Sp. p. 6728; vol. 177; p. 1184.
Reflecting apparatus for illuminating music. A. Schulz. No. 1,027,910; May 28; Sp. p. 6213; Gaz. vol. 178; p. 1066.
Reflecting means for enabling one to see the back of the head or neck, Combination of. G. E. Graham. No. 1,024,506; Apr. 30; Sp. p. 5927; Gaz. vol. 177; p. 1057.
Reflecting-prism. R. Straubel. No. 1,044,102; Nov. 12; Gaz. vol. 184; p. 402.
Reflector. A. E. Pike. No. 1,040,008; Oct. 1; Gaz. vol. 183; p. 112.
Reflector and burner, Dirigible. O. E. Petersen. No. 1,045,608; Nov. 26; Gaz. vol. 184; p. 984.
Reflector, Automobile-lamp light-. C. Reichl. No. 1,040,412; Oct. 8; Gaz. vol. 183; p. 279.
Reflector for artificial lights. O. A. Mygatt. No. 1,043,787; Nov. 5; Gaz. vol. 184; p. 259.
Reflector, Light-. S. Schopflocher. No. 1,015,348; Jan. 23; Sp. p. 4992; Gaz. vol. 174; p. 862.
Reflector of glass, Compound shade-. O. A. Mygatt. No. 1,019,179; Mar. 5; Sp. p. 388; Gaz. vol. 176; p. 61.
Reflector-shade. R. B. Benjamin. No. 1,038,072; Sept. 10; Gaz. vol. 182; p. 333.
Reflector-support. M. J. Kane. No. 1,024,900; Apr. 30; Sp. p. 6799; Gaz. vol. 177; p. 1195.
Reflector, Ventilated. J. Meyer. No. 1,030,910; July 2; Gaz. vol. 180; p. 20.
Reflector, Window-. G. B. Johnson. No. 1,035,594; Aug. 13; Gaz. vol. 181; p. 434.
Reflectors, Making. L. Kauffeld. No. 1,024,264; Apr. 23; Sp. p. 5384; Gaz. vol. 177; p. 943.
Refractometer. H. G. Ingram and H. R. Dérickson. No. 1,045,148; Nov. 26; Gaz. vol. 184; p. 821.
Refractory article. G. Weintraub. No. 1,022,011; Apr. 2; Sp. p. 561; Gaz. vol. 177; p. 88.
Refractory article and making it. S. F. Hall. No. 1,030,999; July 2; Gaz. vol. 180; p. 53.
Refractory article and making it. F. M. Becket. No. 1,038,827; Sept. 17; Gaz. vol. 182; p. 628.
Refractory body and making the same. E. G. Acheson. No. 1,014,199; Jan. 9; Sp. p. 2452; Gaz. vol. 174; p. 412.
Refractory conductor. W. D. Coolidge. No. 1,026,429; May 14; Sp. p. 2954; Gaz. vol. 178; p. 489.
Refractory conductors, Binder for the manufacture of. W. D. Coolidge. No. 1,026,344; May 14; Sp. p. 2771; Gaz. vol. 178; p. 462.
Refractory conductors, Manufacture of. W. D. Coolidge. No. 1,026,343; May 14; Sp. p. 2768; Gaz. vol. 178; p. 462.
Refractory material. F. J. Tone. No. 1,042,844; Oct. 29; Gaz. vol. 183; p. 1204.
Refrigerating and carbonating apparatus. H. Müller. No. 1,046,482; Dec. 10; Gaz. vol. 185; p. 276.
Refrigerating apparatus. C. J. Coleman. No. 1,014,120; Jan. 9; Sp. p. 2304; Gaz. vol. 174; p. 384.
Refrigerating apparatus. R. M. Hunter. No. 1,015,957; Jan. 30; Sp. p. 6297; Gaz. vol. 174; p. 1096.
Refrigerating apparatus. J. G. de Quesada. No. 1,025,765; May 7; Sp. p. 1449; Gaz. vol. 178; p. 227.
Refrigerating apparatus. M. Leblanc. No. 1,031,942; July 9; Gaz. vol. 180; p. 421.
Refrigerating apparatus. H. H. Southworth and F. W. Wolf, Jr. No. 1,034,657; Aug. 6; Gaz. vol. 181; p. 84.
Refrigerating apparatus. L. H. Lister. No. 1,042,015; Oct. 22; Gaz. vol. 183; p. 893.
Refrigerating apparatus. F. W. Wolf, Jr., and H. H. Southworth. No. 1,046,134; Dec. 3; Gaz. vol. 185; p. 115.
Refrigerating apparatus. F. W. Wolf, Jr., and H. H. Southworth. No. 1,046,135; Dec. 3; Gaz. vol. 185; p. 116.
Refrigerating apparatus. C. H. Hapgood. No. 1,046,588; Dec. 10; Gaz. vol. 185; p. 314.
Refrigerating apparatus. J. Blenz and J. R. Morgenstein. No. 1,046,727; Dec. 10; Gaz. vol. 185; p. 364.
Refrigerating apparatus, Portable. W. C. Brady. No. 1,037,423; Sept. 3; Gaz. vol. 182; p. 83.
Refrigerating-case, Portable. C. P. Mickelson. No. 1,042,249; Oct. 22; Gaz. vol. 183; p. 970.
Refrigerating-compartments, Temperature control of. A. T. Marshall. No. 1,014,833; Jan. 16; Sp. p. 3893; Gaz. vol. 174; p. 660.
Refrigerating-cover for milk-cans. S. Shapiro. No. 1,047,997; Dec. 24; Gaz. vol. 185; p. 862.
Refrigerating device. G. E. Jones. No. 1,017,217; Feb. 13; Sp. p. 2210; Gaz. vol. 175; p. 375.

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Refrigerating device. J. A. Anderson. No. 1,030,270; June 25; Sp. p. 4801; Gaz. vol. 179; p. 861.
Refrigerating device. J. L. Nilsson. No. 1,040,739; Oct. 8; Gaz. vol. 183; p. 395.
Refrigerating-machine. M. Leblanc. No. 1,029,201; June 11; Sp. p. 2455; Gaz. vol. 179; p. 418.
Refrigerating-machine. D. C. Smith. No. 1,038,221; Sept. 10; Gaz. vol. 182; p. 381.
Refrigerating-machines, Treating. W. A. Byerly. No. 1,025,561; May 7; Sp. p. 1025; Gaz. vol. 178; p. 158.
Refrigerating machinery, Gas-expansion header for. H. D. Stratton. No. 1,031,885; July 9; Gaz. vol. 180; p. 403.
Refrigeration. W. W. Seay. No. 1,042,041; Oct. 22; Gaz. vol. 183; p. 902.
Refrigerator. W. N. Amsbary. No. 1,013,468; Jan. 2; Sp. p. 828; Gaz. vol. 174; p. 132.
Refrigerator. J. Egler. No. 1,013,478; Jan. 2; Sp. p. 848; Gaz. vol. 174; p. 135.
Refrigerator. A. A. Pons. No. 1,014,329; Jan. 9; Sp. p. 2755; Gaz. vol. 174; p. 458.
Refrigerator. J. J. Vaughn. No. 1,015,600; Jan. 23; Sp. p. 5542; Gaz. vol. 174; p. 948.
Refrigerator. B. A. Kuhns. No. 1,016,336; Feb. 6; Sp. p. 229; Gaz. vol. 175; p. 35.
Refrigerator. G. S. Gallagher. No. 1,018,180; Feb. 20; Sp. p. 4335; Gaz. vol. 175; p. 744.
Refrigerator. G. M. Willard. No. 1,018,539; Feb. 27; Sp. p. 5166; Gaz. vol. 175; p. 898.
Refrigerator. C. D. Stoll. No. 1,019,100; Mar. 5; Sp. p. 201; Gaz. vol. 176; p. 32.
Refrigerator. A. W. De Neen. No. 1,020,482; Mar. 19; Sp. p. 3120; Gaz. vol. 176; p. 563.
Refrigerator. B. E. Grady. No. 1,026,799; May 21; Sp. p. 3764; Gaz. vol. 178; p. 651.
Refrigerator. W. H. Burk. No. 1,027,400; May 28; Sp. p. 5106; Gaz. vol. 178; p. 896.
Refrigerator. J. E. Stafford. No. 1,028,298; June 4; Sp. p. 512; Gaz. vol. 179; p. 75.
Refrigerator. E. D. Lochner. No. 1,030,668; June 25; Sp. p. 5879; Gaz. vol. 179; p. 1005.
Refrigerator. H. J. Gwyer. No. 1,032,670; July 16; Gaz. vol. 180; p. 714.
Refrigerator. C. R. Rogers. No. 1,034,650; Aug. 6; Gaz. vol. 181; p. 81.
Refrigerator. W. Manteuffel. No. 1,035,370; Aug. 13; Gaz. vol. 181; p. 359.
Refrigeration. D. C. Smith. No. 1,038,220; Sept. 10; Gaz. vol. 182; p. 381.
Refrigerator. F. V. Detwiler. No. 1,048,504; Dec. 31; Gaz. vol. 185; p. 1071.
Refrigerator. A. E. Bossé. No. 1,048,800; Dec. 31; Gaz. vol. 185; p. 1175.
Refrigerator-car. C. A. Moore. No. 1,030,524; June 25; Sp. p. 5427; Gaz. vol. 179; p. 953.
Refrigerator-car. S. Mason. No. 1,030,671; June 25; Sp. p. 5888; Gaz. vol. 179; p. 1006.
Refrigerator-car. A. H. Toens. No. 1,030,944; July 2; Gaz. vol. 180; p. 32.
Refrigerator-car. J. P. Elmer. No. 1,032,051; July 9; Gaz. vol. 180; p. 457.
Refrigerator-car. C. A. Moore. No. 1,035,805; Aug. 13; Gaz. vol. 181; p. 504.
Refrigerator-car. G. E. Knepper. No. 1,037,152; Aug. 27; Gaz. vol. 181; p. 1033.
Refrigerator-car door and means for operating same. J. F. O'Connor. No. 1,023,164; Apr. 16; Sp. p. 3053; Gaz. vol. 177; p. 547.
Refrigerator-car-door closing and opening device. T. H. Garland. No. 1,037,892; Sept. 10; Gaz. vol. 182; p. 272.
Refrigerator-car-door-closing device. T. H. Garland. No. 1,037,891; Sept. 10; Gaz. vol. 182; p. 272.
Refrigerator-car ventilator. D. C. Mulvihill. No. 1,017,445; Feb. 13; Sp. p. 2697; Gaz. vol. 175; p. 455.
Refrigerator-cars, Movable bulkhead for. E. Posson. No. 1,014,093; Jan. 9; Sp. p. 2235; Gaz. vol. 174; p. 375.
Refrigerator, Confection-. A. C. Sweeney and W. R. Parks. No. 1,033,488; July 23; Gaz. vol. 180; p. 1026.
Refrigerator-door, Auxiliary. C. Naegelen. No. 1,046,400; Dec. 3; Gaz. vol. 185; p. 210.
Refrigerator drip-pan. S. Brucelarie and E. Steffan. No. 1,036,181; Aug. 20; Gaz. vol. 181; p. 673.
Refrigerator, heater, and ventilator car, Combination. G. B. Robbins and W. E. Sharp. No. 1,013,517; Jan. 2; Sp. p. 931; Gaz. vol. 174; p. 149.
Refrigerator-linings, Coupling-ring for. W. H. Whittier. No. 1,028,310; June 4; Sp. p. 538; Gaz. vol. 179; p. 79.
Refrigerator-lock. J. Budleiner. No. 1,049,203; Dec. 31; Gaz. vol. 185; p. 1312.
Refrigerator, Mortuary. J. N. McIntire. No. 1,021,722; Mar. 26; Sp. p. 5742; Gaz. vol. 176; p. 1031.
Refrigerator, Oyster-display. C. Stollberg. No. 1,048,755; Dec. 31; Gaz. vol. 185; p. 1158.
Refrigerator-room. F. Zeipen. No. 1,029,484; June 11; Sp. p. 3072; Gaz. vol. 179; p. 515.
Refrigerator-trap. J. Podolsky. No. 1,034,505; Aug. 6; Gaz. vol. 181; p. 35.
Refrigerator water-cooling attachment. A. May. No. 1,013,795; Jan. 2; Sp. p. 1540; Gaz. vol. 174; p. 245.
Refrigerator, Window-. L. P. Nichols. No. 1,036,888; Aug. 27; Gaz. vol. 181; p. 945.
Refrigerators and closets, Sanitary lining for. A. E. Grochau. No. 1,043,048; Oct. 29; Gaz. vol. 183; p. 1275.
Refrigerators, Apparatus for utilizing wells and the like as. T. J. Vanderheiden. No. 1,033,499; July 23; Gaz. vol. 180; p. 1029.
Refrigerators, &c., Sanitary lining for. A. E. Grochau. No. 1,034,441; Aug. 6; Gaz. vol. 181; p. 14.
Refrigerators, Water-cooling ice-tray for. J. Philipps. No. 1,022,565; Apr. 9; Sp. p. 1712; Gaz. vol. 177; p. 302.
Refuse collector, Street-. H. Döring. No. 1,016,556; Feb. 6; Sp. p. 761; Gaz. vol. 175; p. 112.
Refuse-incinerator, Portable. A. E. Paul and L. E. Stasand. No. 1,048,741; Dec. 31; Gaz. vol. 185; p. 1154.
Refuse-receptacle. C. L. Holloway. No. 1,014,475; Jan. 9; Sp. p. 3054; Gaz. vol. 174; p. 507.
Refuse-receptacle. M. A. Borochow. No. 1,019,732; Mar. 5; Sp. p. 1570; Gaz. vol. 176; p. 244.
Refuse-receptacle. S. Meyrowitz. No. 1,040,565; Oct. 8; Gaz. vol. 183; p. 332.
Regenerating contact mass. W. M. Kelsey. No. 1,047,236; Dec. 17; Gaz. vol. 185; p. 568.
Regenerative furnace. P. Patterson. No. 1,038,640; Sept. 17; Gaz. vol. 182; p. 563.
Regenerative furnace. W. F. Taylor. No. 1,040,459; Oct. 8; Gaz. vol. 183; p. 295.
Regenerative furnace. M. Weiss. No. 1,045,650; Nov. 26; Gaz. vol. 184; p. 999.
Regenerative reversing-furnace. L. L. Knox. No. 1,038,154; Sept. 10; Gaz. vol. 182; p. 361.
Regenerative reversing-furnace. L. L. Knox. No. 1,041,814; Oct. 22; Gaz. vol. 183; p. 825.
Regenerator. F. Hodgkinson. No. 1,037,765; Sept. 3; Gaz. vol. 182; p. 197.
Register: *See* Account-register; Autographic register; Automobile shock-register; Cash-register; Cash and autographic register; Cash and credit register; Fare-register; Hotel-register; Pool-register; Pump-register; Telephone-call register; Train-register.
Register. W. J. Farquhar. No. 1,018,750; Feb. 27; Sp. p. 5613; Gaz. vol. 175; p. 970.
Register. O. P. Vroom. No. 1,021,118; Mar. 26; Sp. p. 4473; Gaz. vol. 176; p. 827.
Register. A. Zettervall. No. 1,023,912; Apr. 23; Sp. p. 4600; Gaz. vol. 177; p. 819.
Register. F. K. Boombower and W. A. Eberman. No. 1,026,070; May 14; Sp. p. 2170; Gaz. vol. 178; p. 367.
Register. J. F. Lynch. No. 1,032,486; July 16; Gaz. vol. 180; p. 650.
Register. A. B. Wenink. No. 1,032,522; July 16; Gaz. vol. 180; p. 661.
Register and ventilator. F. A. Wilson. No. 1,013,631; Jan. 2; Sp. p. 1174; Gaz. vol. 174; p. 187.
Registers, Box for warm-air. J. J. and S. P. Burgess. No. 1,041,425; Oct. 15; Gaz. vol. 183; p. 657.
Registers, Heat-deflecting and soot-catching attachment for hot-air. M. A. Forward. No. 1,021,980; Apr. 2; Sp. p. 492; Gaz. vol. 177; p. 78.
Registers, Stack-head for wall-. A. G. Scherer. No. 1,023,278; Apr. 16; Sp. p. 3291; Gaz. vol. 177; p. 588.
Registering and recording apparatus. V. Poduschka. No. 1,047,837; Dec. 17; Gaz. vol. 185; p. 781.
Registering apparatus. H. Hollerith. No. 1,030,304; June 25; Sp. p. 4882; Gaz. vol. 179; p. 873.
Registering-machines, Motor-actuating device for. W. F. Schweiger. No. 1,047,711; Dec. 17; Gaz. vol. 185; p. 738.
Registering mechanism for doors. J. R. Moody. No. 1,023,217; Apr. 16; Sp. p. 3162; Gaz. vol. 177; p. 566.
Registering-mechanism-locking device. G. Johnson. No. 1,019,476; Mar. 5; Sp. p. 1078; Gaz. vol. 176; p. 159.
Registration-numbers, Holder for. O. M. Herold. No. 1,014,471; Jan. 9; Sp. p. 3049; Gaz. vol. 174; p. 506.
Regrinder. W. J. Gruss and D. C. Demarest. No. 1,025,185; May 7; Sp. p. 169; Gaz. vol. 178; p. 28.
Regulating device. C. Chambers, Jr. No. 1,033,672; July 23; Gaz. vol. 180; p. 1086.
Regulator: *See* Automatic regulator; Boiler-regulator; Boiler draft-regulator; Controller-regulator; Current-regulator; Damper-regulator; Dental regulator; Dip-regulator; Draft-regulator; Dynamo-regulator; Electric regulator; Electric-current regulator; Engine-regulator; Engine spark-regulator; Escapement-regulator; Feed-regulator; Feed-water regulator; Fluid-regulator; Fluid-operated regulator; Fluid-pressure regulator; Flush-tank regulator; Furnace-regulator; Gas-regulator; Governor-regulator; Heat-regulator; Humidostat-regulator; Incubator-regulator; Incubator heat-regulator; Irrigation-regulator; Kerosene-burner regulator; Liquid-level regulator; Phonograph speed-regulator; Pressure-regulator; Pump-regulator; Pump air-pressure regulator; Pump-pressure regulator; Rail-joint regulator; Speed-regulator; Steam-accumulator regulator; Temperature-regulator; Tempo-regulator; Thermostatic regulator; Timepiece-regulator; Voltage-regulator; Water-regulator; Wort-regulator.
Regulator. F. E. Ricketts. No. 1,021,333; Mar. 26; Sp. p. 4931; Gaz. vol. 176; p. 902.
Rein checking device, Side-. O. D. Shank. No. 1,030,022; June 18; Sp. p. 4253; Gaz. vol. 179; p. 736.

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Rein-holder. C. T. Owens. No. 1,034,823; Aug. 6; Gaz. vol. 181; p. 142.
Rein-holder. R. Vint. No. 1,045,224; Nov. 26; Gaz. vol. 184; p. 848.
Rein-holder and safety whip-socket, Combination. M. J. Quinn. No. 1,030,245; June 18; Sp. p. 4729; Gaz. vol. 179; p. 814.
Rein-holder, Vehicle. F. A. Bentzlin. No. 1,035,147; Aug. 13; Gaz. vol. 181; p. 278.
Reins, leashes, &c., Device for holding. H. Franzký and J. Wieczorek. No. 1,034,779; Aug. 6; Gaz. vol. 181; p. 127.
Reins, Spreader for. J. A. Tychon. No. 1,022,985; Apr. 9; Sp. p. 2629; Gaz. vol. 177; p. 448.
Reinforcement. A. Atkinson. No. 1,024,663; Apr. 30; Sp. p. 6307; Gaz. vol. 177; p. 1112.
Reinforcing and spacing bar, Metal. A. E. Lindau. No. 1,014,711; Jan. 16; Sp. p. 3605; Gaz. vol. 174; p. 617.
Reinforcing and spacing bar, Metal. A. E. Lindau. No. 1,014,712; Jan. 16; Sp. p. 3606; Gaz. vol. 174; p. 618.
Reinforcing-bars, Spacing device for. W. H. Burk. No. 1,043,199; Nov. 5; Gaz. vol. 184; p. 55.
Reinforcing-bars, Spacing device for. W. H. Burk. No. 1,043,200; Nov. 5; Gaz. vol. 184; p. 55.
Relay. A. S. Cubitt. No. 1,025,786; May 7; Sp. p. 1482; Gaz. vol. 178; p. 234.
Relay and circuits therefor. R. H. Manson. No. 1,030,415; June 25; Sp. p. 5128; Gaz. vol. 179; p. 914.
Relay, Electrical. E. E. Kleinschmidt. No. 1,014,600; Jan. 9; Sp. p. 3294; Gaz. vol. 174; p. 548.
Relay, Energy-. G. Laudet and L. Gaumont. No. 1,014,235; Jan. 9; Sp. p. 2553; Gaz. vol. 174; p. 426.
Relay for undulatory currents. R. von Lieben and E. Reisz. No. 1,038,910; Sept. 17; Gaz. vol. 182; p. 657.
Relay, Governing oil-. M. B. Crist. No. 1,046,443; Dec. 10; Gaz. vol. 185; p. 262.
Relay, High-potential. H. W. Cheney. No. 1,023,503; Apr. 16; Sp. p. 3723; Gaz. vol. 177; p. 659.
Relay, Monotelephone-. P. Heina. No. 1,014,220; Jan. 9; Sp. p. 2502; Gaz. vol. 174; p. 420.
Relay-movement. W. K. Howe. No. 1,019,047; Mar. 5; Sp. p. 77; Gaz. vol. 176; p. 16.
Relay, Polarized. W. S. Henry. No. 1,030,811; June 25; Sp. p. 6266; Gaz. vol. 179; p. 1056.
Relay, Polarized. J. L. Woodbridge. No. 1,042,183; Oct. 22; Gaz. vol. 183; p. 948.
Relay, Reverse-phase. H. E. Rice. No. 1,025,590; May 7; Sp. p. 1087; Gaz. vol. 178; p. 168.
Relay, Spring-armature. W. Kaisling. No. 1,016,567; Feb. 6; Sp. p. 779; Gaz. vol. 175; p. 115.
Relay, target-setting, and return-call-circuit-closing device. E. R. Cunningham. No. 1,016,482; Feb. 6; Sp p. 559; Gaz. vol. 175; p. 86.
Relay, Time and current limit. A. S. Cubitt. No. 1,019,425; Mar. 5; Sp. p. 974; Gaz. vol. 176; p. 142.
Release-rigging. W. P. Murphy. No. 1,031,811; July 9; Gaz. vol. 180; p. 377.
Release-rigging. W. P. Murphy. No. 1,043,930; Nov. 12; Gaz. vol. 184; p. 341.
Releasing device. C. Müller. No. 1,024,948; Apr. 30; Sp. p. 6901; Gaz. vol. 177; p. 1212.
Releasing device. J. Irwin. No. 1,030,586; June 25; Sp. p. 5614; Gaz. vol. 179; p. 975.
Releasing-hook for life-boats and the like. W. J. Huff. No. 1,027,481; May 28; Sp. p. 5257; Gaz. vol. 178; p. 922.
Reloading-tool. O. Arnason. No. 1,023,913; Apr. 23; Sp. p. 4605; Gaz. vol. 177; p 820.
Remedy, Dandruff. T. J. Lynch. No. 1,039,064; Sept. 17; Gaz. vol. 182; p. 704.
Remedy for tuberculosis, Producing a. W. Ruppel. No. 1,037,997; Sept. 10; Gaz. vol. 182; p. 309.
Rendering and drying apparatus, Sanitary. R. T. G. Liesinger. No. 1,031,010; July 2; Gaz. vol. 180; p. 56.
Rendering-tank. H. F. Brehm. No. 1,032,181; July 9; Gaz. vol. 180; p. 501.
Rendering vessel. S. Toth and J. Vecsei. No. 1,042,845; Oct. 29; Gaz. vol. 183; p. 1204.
Rennet-package and making same. A. J. Marschall. No. 1,038,920; Sept. 17; Gaz. vol. 182; p. 661.
Renovating and disinfecting device. E. E. Overholt. No. 1,016,435; Feb. 6; Sp. p. 439; Gaz. vol. 175; p. 69.
Repeater. E. H. Birney. No. 1,046,950; Dec. 10; Gaz. vol. 185; p. 439.
Reproducing-machine carriage-actuating mechanism. B. O. Fanslow. No. 1,047,397; Dec. 17; Gaz. vol. 185; p. 625.
Rerailing device. A. E. Hancock. No. 1,035,875; Aug 20; Gaz. vol. 181; p. 566.
Reservoir, Air-pressure. B. L. Mills. No. 1,044,465; Nov. 12; Gaz. vol. 184; p. 525.
Reservoir and channel cleaner, silt-conserver, and levee-protector. J. J. Henderson. No. 1,042,792; Oct. 29; Gaz. vol. 183; p. 1187.
Reservoir, Force-feed. P. S. Hamrick. No. 1,020,602; Mar. 19; Sp. p. 3391; Gaz. vol. 176; p. 602.
Resetting device. E. C. Oliver. No. 1,046,633; Dec. 10; Gaz. vol. 185; p. 330.
Resilient antiskidding wheel. H. G. Hugon. No. 1,025,400; May 7; Sp. p. 653; Gaz. vol. 178; p. 102.
Resilient vehicle-wheel. J. Gaynor. No. 1,047,888; Dec. 17; Gaz. vol. 185; p. 799.
Resilient wheel. E. C. Bass and E. S. Hough. No. 1,014,558; Jan. 9; Sp. p. 3203; Gaz. vol. 174; p. 533.
Resilient wheel. R. E. Ellis. No. 1,014,644; Jan. 16; Sp. p. 3464; Gaz. vol. 174; p. 595.
Resilient wheel. H. Leap. No. 1,014,884; Jan. 16; Sp. p. 4007; Gaz. vol. 174; p. 677.
Resilient wheel. M. E. Knight. No. 1,015,761; Jan. 23; Sp. p. 5884; Gaz. vol. 174; p. 1003.
Resilient wheel. H. W. Brooks and S. F. Krupp. No. 1,016,871; Feb. 6; Sp. p. 1410; Gaz. vol. 175; p. 218.
Resilient wheel. J. W. Enright. No. 1,018,307; Feb. 20; Sp. p. 4581; Gaz. vol. 175; p. 786.
Resilient wheel. N. Schenk. No. 1,019,846; Mar. 12; Sp. p. 1792; Gaz. vol. 176; p. 313.
Resilient wheel. N. Schenk. No. 1,019,847; Mar. 12; Sp. p. 1794; Gaz. vol. 176; p. 314.
Resilient wheel. R. E. Arnold and C. P. Hockett. No. 1,021,440; Mar. 26; Sp. p. 5192; Gaz. vol. 176; p. 939.
Resilient wheel. C. D. Galvin. No. 1,021,515; Mar. 26; Sp. p. 5363; Gaz. vol. 176; p. 965.
Resilient wheel. A. Sherwood. No. 1,022,885; Apr. 9; Sp. p. 2412; Gaz. vol. 177; p. 412.
Resilient wheel. D. L. Crosbie. No. 1,023,416; Apr. 16; Sp. p. 3550; Gaz. vol. 177; p. 632.
Resilient wheel. F. H. Lacey. No. 1,025,473; May 7; Sp p. 819; Gaz. vol. 178; p. 128.
Resilient wheel. A. F. Glaser and J. Olsen. No. 1,026,505; May 14; Sp. p. 3118; Gaz. vol. 178; p. 515.
Resilient wheel. F. C. Oldham. No. 1,026,822; May 21; Sp. p. 3804; Gaz. vol. 178; p. 659.
Resilient wheel. L. Burdy and E. F. Moine. No. 1,026,903; May 21; Sp. p. 4005; Gaz. vol. 178; p. 688.
Resilient wheel. J. R. Wright. No. 1,028,172; June 4; Sp. p. 265; Gaz. vol. 179; p. 33.
Resilient wheel. W. Black. No. 1,030,227; June 18; Sp. p. 4693; Gaz. vol. 179; p. 807.
Resilient wheel. C. L. Schwarz. No. 1,030,924; July 2; Gaz. vol. 180; p. 24.
Resilient wheel. W. H. Kern. No. 1,033,417; July 23; Gaz. vol. 180; p. 1003.
Resilient wheel. M. Wagner. No. 1,034,327; July 30; Gaz. vol. 180; p. 1339.
Resilient wheel. Z. D. Butts. No. 1,034,975; Aug. 6; Gaz. vol. 181; p. 192.
Resilient wheel. A. Loock. No. 1,035,367; Aug. 13; Gaz. vol. 181; p. 358.
Resilient wheel. M. C. Rose. No. 1,035,911; Aug. 20; Gaz. vol. 181; p. 579.
Resilient wheel. W. W. Darling. No. 1,036,579; Aug. 27; Gaz. vol. 181; p. 844.
Resilient wheel. M. Mathiesen. No. 1,037,949; Sept. 10; Gaz. vol. 182; p. 293.
Resilient wheel. S. K. Rossignol. No. 1,039,594; Sept. 24; Gaz. vol. 182; p. 909.
Resilient wheel. G. Dorffel. No. 1,040,173; Oct. 1; Gaz. vol. 183; p. 168.
Resilient wheel. A. Seibert. No. 1,040,436; Oct. 8; Gaz. vol. 183; p. 287.
Resilient wheel. C. J. Craig. No. 1,041,244; Oct. 15; Gaz. vol. 183; p. 597.
Resilient wheel. F. E. Day. No. 1,043,075; Nov. 5; Gaz. vol. 184; p. 9.
Resilient wheel. D. L. Crosbie. No. 1,043,571; Nov. 5; Gaz. vol. 184; p. 189.
Resilient wheel. A. F. Hawksley. No. 1,044,522; Nov. 19; Gaz. vol. 184; p. 575.
Resilient wheel. T. E. Van Derwerken. No. 1,044,951; Nov. 19; Gaz. vol. 184; p. 724.
Resilient wheel. B. Anderson and C. L. Miles. No. 1,046,712; Dec. 10; Gaz. vol. 185; p. 359.
Resilient wheel. W. C. Fickes. No. 1,047,190; Dec. 17; Gaz. vol. 185; p. 551.
Resilient wheel. L. S. Robbins and J. R. Davis. No. 1,047,297; Dec. 17; Gaz. vol. 185; p. 592.
Resilient wheel. H. L. Rice. No. 1,047,705; Dec. 17; Gaz. vol. 185; p. 735.
Resilient wheel. W. F. Doll. No. 1,048,813; Dec. 31; Gaz. vol. 185; p. 1180.
Resilient wheel. H. C. Moore. No. 1,049,129; Dec. 31; Gaz. vol. 185; p. 1288.
Resilient wheel for vehicles. R. E. Fivey. No. 1,046,760; Dec. 10; Gaz. vol. 185; p. 376.
Resilient wheel, Metallic. T. H. Coulter. No. 1,037,446; Sept. 3; Gaz. vol. 182; p. 92.
Resin and forming same, Fusible phenol. J. W. Aylsworth. No. 1,029,737; June 18; Sp. p. 3632; Gaz. vol. 179; p. 640.
Resin from waste products, Recovering. F. L. Huggins. No. 1,022,194; Apr. 2; Sp. p. 937; Gaz. vol. 177; p. 149.
Resins, Forming fusible phenol. J. W. Aylsworth. No. 1,027,794; May 28; Sp. p. 5894; Gaz. vol. 178; p. 1025.
Resinized phenols, Forming articles of non-plastic. J. W. Aylsworth. No. 1,032,044; July 16; Gaz. vol. 180; p. 838.
Resinous products from rosin waste and the like, Recovering the. D. J. Ogilvy. No. 1,014,411; Jan. 9; Sp. p. 2941; Gaz. vol. 174; p. 488.

Alphabetical list of inventions—Continued.

Resistance. R. Miller, Jr. No. 1,021,256; Mar. 26; Sp. p. 4782; Gaz. vol. 176; p. 873.
Resistance element. J. G. Zimmerman. No. 1,023,543; Apr. 16; Sp. p. 3801; Gaz. vol. 177; p. 671.
Resistance element. J. J. Nolan. No. 1,038,422; Sept. 10; Gaz. vol. 182; p. 452.
Resistance material, Making. E. Weintraub. No. 1,019,568; Mar. 5; Sp. p. 1268; Gaz. vol. 176; p. 190.
Resistance means, Variable-. E. R. Gill. No. 1,026,798; May 21; Sp. p. 3761; Gaz. vol. 178; p. 650.
Resistance or heating element. W. S. Hadaway, Jr. No. 1,013,157; Jan. 2; Sp. p. 139; Gaz. vol. 174; p. 24.
Resistance unit. G. E. Stevens. No. 1,022,897; Apr. 9; Sp. p. 2434; Gaz. vol. 177; p. 416.
Resistance unit. L. E. Barringer. No. 1,026,377; May 14; Sp. p. 2853; Gaz. vol. 178; p. 472.
Resistant material and the product resulting therefrom, Preparing. H. T. Jones. No. 1,014,882; Jan. 16; Sp. p. 4003; Gaz. vol. 174; p. 676.
Resistant surface. C. B. Jacobs. No. 1,014,967; Jan. 16; Sp. p. 4195; Gaz. vol. 174; p. 706.
Resonating device. G. A. Wiost. No. 1,020,243; Mar. 12; Sp. p. 2639; Gaz. vol. 176; p. 447.
Resonator. L. H. Himioben. No. 1,017,871; Feb. 20; Sp. p. 3639; Gaz. vol. 175; p. 635.
Resonator, Differential. E. H. Murfee. No. 1,044,227; Nov. 12; Gaz. vol. 184; p. 443.
Resonator for examining the human voice. S. Weber-Bell. No. 1,028,165; June 4; Sp. p. 249; Gaz. vol. 179; p. 30.
Respiration apparatus. O. Cloetta and F. Müller. No. 1,048,135; Dec. 24; Gaz. vol. 185; p. 909.
Respirator, Gauze-. J. H. Diaper. No. 1,044,031; Nov. 12; Gaz. vol. 184; p. 377.
Rest and clamp, Combined. J. P. Hedstrom. No. 1,031,712; July 9; Gaz. vol. 180; p. 342.
Rest and lifting lever. W. V. Ellis. No. 1,018,655; Feb. 27; Sp. p. 5409; Gaz. vol. 175; p. 937.
Resurfacing device. G. A. Parks. No. 1,038,947; Sept. 17; Gaz. vol. 182; p. 669.
Resuscitating apparatus. W. G. Euston. No. 1,031,109; July 2; Gaz. vol. 180; p. 92.
Retarding device. O. V. Greene. No. 1,026,626; May 14; Sp. p. 3364; Gaz. vol. 178; p. 554.
Rethreading-tool. D. G. Garbarino and C. W. Roessle. No. 1,017,403; Feb. 13; Sp. p. 2593; Gaz. vol. 175; p. 439.
Retort-closure. T. D. Miller. No. 1,038,933; Sept. 17; Gaz. vol. 182; p. 665.
Retort for the carbonization of coal or the like, Vertical. A. M. Duckham. No. 1,037,822; Sept. 3; Gaz. vol. 182; p. 215.
Retort-setting, Constructing a. G. W. Parker. No. 1,037,516; Sept. 3; Gaz. vol. 182; p. 115.
Reverberatory furnace. J. B. F. Herreshoff. No. 1,047,521; Dec. 17; Gaz. vol. 185; p. 670.
Reversible casing-wrench. F. Hendricks. No. 1,040,540; Oct. 8; Gaz. vol. 183; p. 324.
Reversible mold. T. C. Sheehan. No. 1,044,425; Nov. 12; Gaz. vol. 184; p. 512.
Reversible two-cycle engine. C. Hull. No. 1,038,371; Sept. 10; Gaz. vol. 182; p. 433.
Reversing and accelerating switch, Mechanical. D. Larson. No. 1,014,234; Jan. 9; Sp. p. 2546; Gaz. vol. 174; p. 425.
Reversing mechanism. T. J. Dalton. No. 1,020,193; Mar. 12; Sp. p. 2537; Gaz. vol. 176; p. 430.
Reversing mechanism. W. H. Eisenhower. No. 1,041,985; Oct. 22; Gaz. vol. 183; p. 883.
Reversing mechanism. W. Monk. No. 1,042,585; Oct. 29; Gaz. vol. 183; p. 1114.
Reversing mechanism. W. A. Mayhall. No. 1,048,559; Dec. 31; Gaz. vol. 185; p. 1090.
Reversing mechanism, Automatic. G. W. Cameron. No. 1,024,765; Apr. 30; Sp. p. 6520; Gaz. vol. 177; p. 1148.
Revetment for levees or other embankments. T. S. Wilkinson. No. 1,048,251; Dec. 24; Gaz. vol. 185; p. 945.
Revolver. W. W. Key. No. 1,042,007; Oct. 22; Gaz. vol. 183; p. 890.
Revolver. B. B. Holmes. No. 1,047,054; Dec. 10; Gaz. vol. 185; p. 473.
Revolver. W. W. Key. No. 1,049,105; Dec. 31; Gaz. vol. 185; p. 1280.
Revolver. W. W. Key. No. 1,049,106; Dec. 31; Gaz. vol. 185; p. 1281.
Revolver. W. W. Key. No. 1,049,107; Dec. 31; Gaz. vol. 185; p. 1281.
Revolver supporting and operating apparatus. H. W. Sims. No. 1,018,015; Feb. 20; Sp. p. 3960; Gaz. vol. 175; p. 685.
Revolvers, Automatic shell-ejecting device for. C. Foehl. No. 1,019,446; Mar. 5; Sp. p. 1019; Gaz. vol. 176; p. 149.
Revolving case and account-register. A. E. Trenton. No. 1,030,691; June 25; Sp. p. 5932; Gaz. vol. 179; p. 1013.
Revolving screen. G. Bowers. No. 1,043,196; Nov. 5; Gaz. vol. 184; p. 54.
Rheostat. H. A. Steen. No. 1,016,793; Feb. 6; Sp. p. 1252; Gaz. vol. 175; p. 193.
Rheostat. L. C. Eilertsen. No. 1,019,616; Mar. 5; Sp. p. 1351; Gaz. vol. 176; p. 205.
Rheostat. W. H. Gaulke. No. 1,029,539; June 11; Sp. p. 3177; Gaz. vol. 179; p. 533.
Rheostat. F. D. Hallock. No. 1,031,787; July 9; Gaz. vol. 180; p. 368.
Rheostat. L. Beck. No. 1,045,361; Nov. 26; Gaz. vol. 184; p. 896.
Rheostat. W. M. Bowles and C. O. Allen. No. 1,048,645; Dec. 31; Gaz. vol. 185; p. 1120.
Rheostat, Adjustable automatic. C. H. Gaylord. No. 1,038,342; Sept. 10; Gaz. vol. 182; p. 423.
Rheostat and switch, Audiphone. K. B. Hastings. No. 1,018,356; Feb. 20; Sp. p. 4665; Gaz. vol. 175; p. 802.
Rheostat, Automatic motor-starting. P. Zimmer. No. 1,021,227; Mar. 26; Sp. p. 4724; Gaz. vol. 176; p. 863.
Rheostat for welding apparatus, Portable. J. M. Yount. No. 1,046,708; Dec. 10; Gaz. vol. 185; p. 358.
Rheostat, Liquid. H. A. Steen. No. 1,030,850; June 25; Sp. p. 6439; Gaz. vol. 179; p. 1072.
Rheumatism, Apparatus for treating. R. A. Breakfield. No. 1,032,324; July 9; Gaz. vol. 180; p. 550.
Ribbon feed and movement mechanism. J. B. Secor. No. 1,033,124; July 23; Gaz. vol. 180; p. 904.
Ribbon-feed mechanism. B. F. Hutches, Jr. No. 1,033,246; July 23; Gaz. vol. 180; p. 947.
Ribbon-feeding mechanism for reproducing-machines. B. O. Fanslow. No. 1,017,658; Feb. 20; Sp. p. 3109; Gaz. vol. 175; p. 561.
Ribbon-holder. A. B. Griep. No. 1,016,489; Feb. 6; Sp. p. 576; Gaz. vol. 175; p. 89.
Ribbon-spool, Automatically-reversing. J. W. Schafer. No. 1,049,194; Dec. 31; Gaz. vol. 185; p. 1296.
Ribbon winding and reversing mechanism. H. Ellis. No. 1,018,176; Feb. 20; Sp. p. 4324; Gaz. vol. 175; p. 743.
Rice-field cutter. W. E. Long. No. 1,042,243; Oct. 22; Gaz. vol. 183; p. 968.
Riddle. J. A. Islin. No. 1,030,241; June 18; Sp. p. 4724; Gaz. vol. 179; p. 813.
Riddling apparatus for separating straw, cavings, chaff, &c., from grain or seeds. H. S. Rainforth. No. 1,026,529; May 14; Sp. p. 3164; Gaz. vol. 178; p. 523.
Ridge-roll-forming die. T. C. Belding and J. J. Zinslen, No. 1,045,089; Nov. 19; Gaz. vol. 184; p. 772.
Riding-habit. M. Cowen. No. 1,022,405; Apr. 9; Sp. p. 1362; Gaz. vol. 177; p. 250.
Riffling-machine. C. Lewis, Sr. No. 1,017,569; Feb. 13; Sp. p. 2935; Gaz. vol. 175; p. 496.
Riffle-box, Self-discharging. I. N. Gilchrist. No. 1,044,373; Nov. 12; Gaz. vol. 184; p. 494.
Rifle. P. T. Godsal. No. 1,037,468; Sept. 3; Gaz. vol. 182; p. 100.
Rifle and revolver practice, Shooting-range for. J. Paterson. No. 1,035,811; Aug. 13; Gaz. vol. 181; p. 507.
Rifle-bore cleaner. D. Strickler. No. 1,015,915; Jan. 30; Sp. p. 6211; Gaz. vol. 174; p. 1083.
Rifle, High-power air-. E. P. Cook. No. 1,045,373; Nov. 26; Gaz. vol. 184; p. 900.
Rifle, Magazine-. C. A. T. Sjögren. No. 1,015,516; Jan. 23; Sp. p. 5351; Gaz. vol. 174; p. 918.
Rifle, Magazine-. A. R. Adamson. No. 1,032,101; July 9; Gaz. vol. 180; p. 474.
Rifle, Repeating air-. A. V. Dickey. No. 1,026,303; May 14; Sp. p. 2670; Gaz. vol. 178; p. 447.
Rifle-sight. D. W. King. No. 1,015,233; Jan. 16; Sp. p. 4715; Gaz. vol. 174; p. 794.
Rifle-sight. G. R. Hathaway. No. 1,032,899; July 16; Gaz. vol. 180; p. 790.
Rifle-trying device. J. Livtschak. No. 1,042,357; Oct. 22; Gaz. vol. 183; p. 1005.
Rifle wipe-rod. J. Hurst. No. 1,035,707; Aug. 13; Gaz. vol. 181; p. 471.
Rifles, Safety firing attachment for breech-loading. F. Hartney. No. 1,030,087; June 18; Sp. p. 4405; Gaz. vol. 179; p. 760.
Rifling-machine. R. M. W. Hanson. No. 1,019,892; Mar. 12; Sp. p. 1903; Gaz. vol. 176; p. 331.
Rigging bracket, Release-. S. H. Conwell. No. 1,037,442; Sept. 3; Gaz. vol. 182; p. 90.
Rigging-plate, Adjustable. C. A. Harrington. No. 1,040,316; Oct. 8; Gaz. vol. 183; p. 247.
Rim. A. D. Reid. No. 1,042,478; Oct. 29; Gaz. vol. 183; p. 1077.
Rim. A. D. Reid. No. 1,042,479; Oct. 29; Gaz. vol. 183; p. 1077.
Rim, Demountable. R. E. Jeffery. No. 1,025,528; May 7; Sp. p. 947; Gaz. vol. 178; p. 146.
Rim, Demountable. J. C. Cole. No. 1,040,275; Oct. 8; Gaz. vol. 183; p. 232.
Rim, Demountable. E. L. Gold and J. H. Messinger. No. 1,045,018; Nov. 19; Gaz. vol. 184; p. 748.
Rim structure. N. McQueen. No. 1,034,814; Aug. 6; Gaz. vol. 181; p. 140.
Rims, Manufacture of wire-spoked. J. V. Pugh. No. 1,030,428; June 25; Sp. p. 5163; Gaz. vol. 179; p. 919.
Rims, Valve connection for demountable. W. N. Booth. No. 1,044,435; Nov. 12; Gaz. vol. 184; p. 514.
Rimming-machine. D. J. Shaw. No. 1,043,156; Nov. 5; Gaz. vol. 184; p. 38.
Rind-stripping device. T. C. Schirner. No. 1,043,257; Nov. 5; Gaz. vol. 184; p. 75.

Alphabetical list of inventions—Continued.

Ring: *See* Book-ring; Cinch-ring; Clincher-ring; Curtain-ring; Curtain-pole ring; Eccentric ring; Filter-press ring; Finger-ring; Flying or traveling ring; Hat packing-ring; Key-ring; Lead-ring; Life-ring; Packing-ring; Pipe-coupling clamping-ring; Play-ring; Saddle-ring, sealing-ring; Spinning-ring; Water-wheel-gate ring.

Ring-bending tool. J. W. Wright. No. 1,020,244; Mar. 12; Sp. p. 2640; Gaz. vol. 176; p. 448.

Ring construction, Finger-. F. E. Cardon. No. 1,018,875; Feb. 27; Sp. p. 5865; Gaz. vol. 175; p. 1012.

Ring-forming machine. H. Henrich. No. 1,024,004; Apr. 23; Sp. p. 4786; Gaz. vol. 177; p. 850.

Ring-gage. F. T. Plack. No. 1,016,358; Feb. 6; Sp. p. 269; Gaz. vol. 175; p. 42.

Ring-testing machine. D. J. Campbell. No. 1,032,465; July 16; Gaz. vol. 180; p. 642.

Rings, Forming. H. Henrich. No. 1,045,841; Dec. 3; Gaz. vol. 185; p. 16.

Rings, Machine for rolling finger-. H. Henrich. No. 1,026,983; May 21; Sp. p. 4190; Gaz. vol. 178; p. 715.

Rings, Manufacture of jointless. A. Glebe. No. 1,038,346; Sept. 10; Gaz. vol. 182; p. 425.

Rings, Means for casting finger-. F. H. Curl. No. 1,049,212; Dec. 31; Gaz. vol. 185; p. 1315.

Ringer. W. W. Dean. No. 1,022,065; Apr. 2; Sp. p. 663; Gaz. vol. 177; p. 106.

Ringing and docking instrument. G. W. Fletcher. No. 1,015,162; Jan. 16; Sp. p. 4572; Gaz. vol. 174; p. 771.

Ringing and docking instrument. G. W. Fletcher. No. 1,042,901; Oct. 29; Gaz. vol. 183; p. 1224.

Ringing-key, Indicating. W. E. Harkness. No. 1,020,100; May 14; Sp. p. 2358; Gaz. vol. 178; p. 398.

Ringing-key, Selective. C. H. North. No. 1,042,954; Oct. 29; Gaz. vol. 183; p. 1241.

Ringing system, Automatic. A. H. Weiss. No. 1,029,649; June 18; Sp. p. 3412; Gaz. vol. 179; p. 608.

Ringing system, Automatic. A. H. Weiss. No. 1,030,037; June 18; Sp. p. 4281; Gaz. vol. 179; p. 742.

Ringing system, Automatic. A. H. Weiss. No. 1,030,038; June 18; Sp. p. 4286; Gaz. vol. 179; p. 742.

Ringing system, Automatic. A. H. Weiss. No. 1,030,039; June 18; Sp. p. 4292; Gaz. vol. 179; p. 743.

Ritualistic purposes, Tool or instrument for. B. T. Woods, Sr. No. 1,022,219; Apr. 2; Sp. p. 987; Gaz. vol. 177; p. 159.

Rivet. E. B. Stimpson. No. 1,013,625; Jan. 2; Sp. p. 1159; Gaz. vol. 174; p. 184.

Rivet and bolt making machine. J. T. Wallace. No. 1,027,017; May 21; Sp. p. 4263; Gaz. vol. 178; p. 727.

Rivet-calking tool. J. Woodward. No. 1,035,670; Aug. 13; Gaz. vol. 181; p. 459.

Rivet-catcher. E. F. Cortinas. No. 1,035,161; Aug. 13; Gaz. vol. 181; p. 284.

Rivet-head drill. L. Bennett. No. 1,023,002; Apr. 9; Sp. p. 2659; Gaz. vol. 177; p. 454.

Rivet-holder, Pneumatic. J. Boyer. No. 1,013,371; Jan. 2; Sp. p. 619; Gaz. vol. 174; p. 99.

Rivet-setting machine. A. R. Havener. No. 1,016,940; Feb. 13; Sp. p. 1574; Gaz. vol. 175; p. 278.

Rivet-setting machine, Multiple-. A. R. Havener. No. 1,018,761; Feb. 27; Sp. p. 5634; Gaz. vol. 175; p. 974.

Rivet-setting machine, Multiple-. A. R. Havener. No. 1,021,869; Apr. 2; Sp. p. 256; Gaz. vol. 177; p. 41.

Riveted structure. F. R. Henry. No. 1,026,674; May 21; Sp. p. 3483; Gaz. vol. 178; p. 608.

Riveter. H. W. Jacobs. No. 1,037,918; Sept. 10; Gaz. vol. 182; p. 282.

Riveting cloth, leather, and similar material, Apparatus for. J. E. Archer. No. 1,023,061; Apr. 9; Sp. p. 2782; Gaz. vol. 177; p. 474.

Riveting device. J. N. Kornahrens. No. 1,031,560; July 2; Gaz. vol. 180; p. 247.

Riveting-machine. H. Lloyd. No. 1,020,918; Mar. 19; Sp. p. 4051; Gaz. vol. 176; p. 708.

Riveting-machine. E. Einfeldt. No. 1,025,384; May 7; Sp. p. 622; Gaz. vol. 178; p. 96.

Riveting-machine. E. Smith. No. 1,027,289; May 21; Sp. p. 4872; Gaz. vol. 178; p. 820.

Riveting-machine. C. W. Meadowcroft. No. 1,034,480; Aug. 6; Gaz. vol. 181; p. 26.

Riveting-machine. E. J. Pennypacker. No. 1,044,813; Nov. 19; Gaz. vol. 184; p. 677.

Riveting-machine attachment. O. Mallory. No. 1,017,436; Feb. 13; Sp. p. 2666; Gaz. vol. 175; p. 451.

Riveting tool. A. C. Rogerson. No. 1,019,088; Mar. 5; Sp. p. 180; Gaz. vol. 176; p. 29.

Roach-exterminator. N. R. Levi. No. 1,022,096; Apr. 2; Sp. p. 729; Gaz. vol. 177; p. 116.

Roach-trap. H. N. Suhre. No. 1,018,277; Feb. 20; Sp. p. 4519; Gaz. vol. 175; p. 777.

Roach-trap. J. Dempster. No. 1,024,767; Apr. 30; Sp. p. 6524; Gaz. vol. 177; p. 1149.

Road-beds and railway-tracks, Construction of. G. Perkins, Sr. No. 1,046,635; Dec. 10; Gaz. vol. 185; p. 331.

Road-binder-mixing machine. W. F. Davis. No. 1,020,640; Mar. 19; Sp. p. 3479; Gaz. vol. 176; p. 614.

Road cleaner and smoother. G. U. Davis. No. 1,033,551; July 23; Gaz. vol. 180; p. 1047.

Road composition and making the same. T. J. Barrett. No. 1,039,884; Oct. 1; Gaz. vol. 183; p. 72.

Road construction, Portable apparatus for heating a binder for. M. Van Alstyne. No. 1,033,131; July 23; Gaz. vol. 180; p. 907.

Road-cutter and the like. L. D. Craig. No. 1,037,875; Sept. 10; Gaz. vol. 182; p. 267.

Road-engine. G. B. Selden. No. 1,028,501; June 4; Sp. p. 965; Gaz. vol. 179; p. 145.

Road-engine. E. J. Vraalstad. No. 1,048,608; Dec. 31; Gaz. vol. 185; p. 1107.

Road-icer, Steam. H. S. Parker. No. 1,029,508; June 11; Sp. p. 3120; Gaz. vol. 179; p. 523.

Road-leveling device. N. S. Monroe. No. 1,015,820; Jan. 30; Sp. p. 6003; Gaz. vol. 174; p. 1049.

Road-machine. F. B. Peck. No. 1,014,023; Jan. 9; Sp. p. 2093; Gaz. vol. 174; p. 351.

Road-machine. J. H. Keller. No. 1,032,684; July 16; Gaz. vol. 180; p. 718.

Road-machine. F. E. Arndt. No. 1,039,686; Oct. 1; Gaz. vol. 183; p. 4.

Road-making and binding materials therefor. E. A. Paterson. No. 1,042,474; Oct. 29; Gaz. vol. 183; p. 1075.

Road-making machine. M. A. Popkess. No. 1,013,512; Jan. 2; Sp. p. 920; Gaz. vol. 174; p. 147.

Road-oiling apparatus. G. M. Saybolt. No. 1,033,038; July 16; Gaz. vol. 180; p. 835.

Road-roller. J. C. Findlay. No. 1,035,335; Aug. 13; Gaz. vol. 181; p. 345.

Road-rutter. J. T. Ranney. No. 1,016,775; Feb. 6; Sp. p. 1221; Gaz. vol. 175; p. 188.

Road-sanding apparatus. H. P. Roberts. No. 1,025,646; Mar. 7; Sp. p. 1209; Gaz. vol. 178; p. 186.

Road-scarifier. N. De Wind. No. 1,030,287; June 25; Sp. p. 4845; Gaz. vol. 179; p. 867.

Road-sweeping machine. J. T. Whittome. No. 1,042,860; Oct. 29; Gaz. vol. 183; p. 1210.

Road wearing-surfaces, Self-contained machine for preparing. P. C. Brennan. No. 1,020,633; Mar. 19; Sp. p. 3467; Gaz. vol. 176; p. 612.

Roads and the like, Apparatus for surfacing. C. E. Horne and C. D. Parker. No. 1,048,165; Dec. 24; Gaz. vol. 185; p. 919.

Roads, Liquid-hydrocarbon distributer for. D. Schoentag and E. J. Latus. No. 1,028,288; June 4; Sp. p. 495; Gaz. vol. 179; p. 72.

Roads or pavements, Composition for constructing. W. T. Headley. No. 1,045,286; Nov. 26; Gaz. vol. 184; p. 870.

Roasting-furnace. T. D. Merton. No. 1,022,961; Apr. 9; Sp. p. 2588; Gaz. vol. 177; p. 439.

Roasting-kiln, Recuperative. J. Zellweger. No. 1,017,839; Feb. 20; Sp. p. 3552; Gaz. vol. 175; p. 624.

Rock and boulder planer. A. G. Seberg. No. 1,044,926; Nov. 19; Gaz. vol. 184; p. 716.

Rock and ore crusher. H. R. Stacks. No. 1,014,532; Jan. 9; Sp. p. 3157; Gaz. vol. 174; p. 525.

Rock and ore crusher. T. Willma. No. 1,044,325; Nov. 12; Gaz. vol. 184; p. 478.

Rock-breaker, Subaqueous. A. W. Hassell. No. 1,018,050; Feb. 20; Sp. p. 4040; Gaz. vol. 175; p. 699.

Rock, coal, &c., drill. S. S. Wyer. No. 1,034,052; July 30; Gaz. vol. 180; p. 1245.

Rock-core drill. W. R. Wallace. No. 1,019,206; Mar. 5; Sp. p. 439; Gaz. vol. 176; p. 70.

Rock-crusher. R. M. G. Phillips. No. 1,047,835; Dec. 17; Gaz. vol. 185; p. 780.

Rock-crushers, Adjustable crusher-head for. E. L. Pemberton. No. 1,035,041; Aug. 6; Gaz. vol. 181; p. 212.

Rock-cutter, Navigable. F. Lobnitz. No. 1,018,917; Feb. 27; Sp. p. 5952; Gaz. vol. 175; p. 1025.

Rock-drill. T. F. Carroll. No. 1,015,780; Jan. 30; Sp. p. 5924; Gaz. vol. 174; p. 1036.

Rock-drill. C. H. Locher. No. 1,018,834; Feb. 27; Sp. p. 5785; Gaz. vol. 175; p. 999.

Rock-drill. M. E. Thomas. No. 1,026,886; May 21; Sp. p. 3958; Gaz. vol. 178; p. 682.

Rock-drill. J. M. and J. L. Holman. No. 1,029,294; June 11; Sp. p. 2644; Gaz. vol. 179; p. 448.

Rock-drill. D. C. Demarest. No. 1,029,855; June 18; Sp. p. 3909; Gaz. vol. 179; p. 680.

Rock-drill. W. L. Brookins. No. 1,036,180; Aug. 20; Gaz. vol. 181; p. 672.

Rock-drill. C. A. Hultquist. No. 1,040,544; Oct. 8; Gaz. vol. 183; p. 325.

Rock-drill. E. M. Mackie and P. F. Doyle. No. 1,042,359; Oct. 22; Gaz. vol. 183; p. 1006.

Rock-drill. H. Deitz. No. 1,043,302; Nov. 5; Gaz. vol. 184; p. 92.

Rock-drill. T. J. Barbre and J. G. Trefz. No. 1,044,337; Nov. 12; Gaz. vol. 184; p. 482.

Rock-drill. G. F. Speer. No. 1,048,434; Dec. 24; Gaz. vol. 185; p. 1008.

Rock drill and chipping hammer, Electromagnetic. C. E. Adams. No. 1,019,213; Mar. 5; Sp. p. 455; Gaz. vol. 176; p. 72.

Rock drill and reamer, Combination. K. Jonassen. No. 1,034,803; Aug. 6; Gaz. vol. 181; p. 135.

Rock-drill, Down-hole handle-supported. J. G. Leyner. No. 1,039,971; Oct. 1; Gaz. vol. 183; p. 100.

Rock-drill engine. B. Hastings. No. 1,015,798; Jan. 30; Sp. p. 5959; Gaz. vol. 174; p. 1043.

Alphabetical list of inventions—Continued.

Rock-drill front cover. B. Cock. No. 1,035,083; Aug. 6; Gaz. vol. 181; p. 227.
Rock-drill, Gasolene. S. S. Wyer. No. 1,034,053; July 30; Gaz. vol. 180; p. 1245.
Rock-drill, Portable. G. H. Bibb. No. 1,022,578; Apr. 9; Sp. p. 1739; Gaz. vol. 177; p. 307.
Rock-drill, Rotary. J. B. Strauss and C. L. Brown. No. 1,045,756; Nov. 26; Gaz. vol. 184; p. 1036.
Rock-drills, Device for the facilitation of the exchange of bores in. F. C. A. Herstad. No. 1,024,574; Apr. 30; Sp. p. 6109; Gaz. vol. 177; p. 1081.
Rock-drills, Rotation device for. C. C. Hansen. No. 1,023,517; Apr. 16; Sp. p. 3756; Gaz. vol. 177; p. 664.
Rock-drilling machine. P. Lange. No. 1,044,790; Nov. 19; Gaz. vol. 184; p. 671.
Rock-gathering and excavating machine. D. A. Gilchrist. No. 1,029,359; June 11; Sp. p. 2802; Gaz. vol. 179; p. 472.
Rock-picker for picking up rocks, &c. J. Harman. No. 1,023,736; Apr. 16; Sp. p. 4164; Gaz. vol. 177; p. 731.
Rocker, Collapsible shoo-fly. A. D. Converse. No 1,039,698; Oct. 1; Gaz. vol. 183; p. 8.
Rocking-horse. A. D. Converse. No. 1,039,699; Oct. 1; Gaz. vol. 183; p. 9.
Rod: *See* Automobile steering-rod; Brake-rod; Connecting-rod; Curtain-rod; Engineer's combination-rod; Engineer's slope-rod; Extension-rod; Fishing-rod; Ground-rod; Level-rod; Piston-rod; Rifle wipe-rod; Umbrella-rod.
Rod and bolt cutter. L. C. Lambert. No. 1,045,414; Nov. 26; Gaz. vol. 184; p. 914.
Rod-bender. G. W. Brown and J. J. Kennedy. No. 1,046,257; Dec. 3; Gaz. vol. 185; p. 160.
Rod-bending machine. H. H. Jensen. No. 1,021,932; Apr. 2; Sp. p. 371; Gaz. vol. 177; p. 62.
Rod-bending machine. G. W. Foraker. No. 1,044,766; Nov. 19; Gaz. vol. 184; p. 662.
Rod-clamp. R. C. Kleffman. No. 1,048,705; Dec. 31; Gaz. vol. 185; p. 1142.
Rod-coupling. E. E. Ellison. No. 1,047,014; Dec. 10; Gaz. vol. 185; p. 459.
Rod-coupling. P. C. Jones and G. A. Strub. No. 1,049,307; Dec. 31; Gaz. vol. 185; p. 1349.
Rod coupling, Connecting-. A. De Dion and G. Bouton. No. 1,037,211; Sept. 3; Gaz. vol. 182; p. 11.
Rod-holder. L. Arnt. No. 1,027,026; May 21; Sp. p. 4295; Gaz. vol. 178; p. 731.
Rod-mill. F. H. Daniels. No. 1,029,673; June 18; Sp. p. 3480; Gaz. vol. 179; p. 617.
Rods or wires, Making compound. E. Schürhoff. No. 1,044,264; Nov. 12; Gaz. vol. 184; p. 457.
Rodent-exterminator. D. B. Harris. No. 1,018,109; Feb. 20; Sp. p. 4176; Gaz. vol. 175; p. 719.
Rodent-poisoning device. D. E. Smoot. No. 1,019,543; Mar. 5; Sp. p. 1221; Gaz. vol. 176; p. 182.
Roentgen tubes, Regenerative device for. H. Bauer. No. 1,047,881; Dec. 17; Gaz. vol. 185; p. 796.
Roll. F. A. Vieser. No. 1,018,457; Feb. 27; Sp. p. 4922; Gaz. vol. 175; p. 869.
Roll. H. Parker. No. 1,039,067; Sept. 17; Gaz. vol. 182; p. 705.
Roll-adjusting mechanism. F. Wackermann and C. Zabel. No. 1,020,064; Mar. 12; Sp. p. 2251; Gaz. vol. 176; p. 387.
Roll-centering device. J. Butler. No. 1,014,446; Jan. 9; Sp. p. 3007; Gaz. vol. 174; p. 498.
Roll, Collared spirally-wound. C. S. Lockwood. No. 1,029,075; June 11; Sp. p. 2175; Gaz. vol. 179; p. 374.
Roll-holder. O. Moberg. No. 1,045,311; Nov. 26; Gaz. vol. 184; p. 878.
Roll-polishing device. J. C. Cavill and G. F. Lehberger. No. 1,018,163; Feb. 20; Sp. p. 4297; Gaz. vol. 175; p. 738.
Roll-support. O. Thieme. No. 1,028,506; June 4; Sp. p. 975; Gaz. vol. 179; p. 147.
Roll-surface-cleansing device. J. A. Frossard. No. 1,034,780; Aug. 6; Gaz. vol. 181; p. 127.
Roll-top can. F. P. McColl. No. 1,039,164; Sept. 24; Gaz. vol. 182; p. 756.
Rolls, Giant. T. A. Edison. No. 1,014,818; Jan. 16; Sp. p. 3842; Gaz. vol. 174; p. 653.
Rolls with leather, Machine for covering. J. J. Cunningham. No. 1,013,749; Jan. 2; Sp. p. 1455; Gaz. vol. 174; p. 230.
Rolled material, Mounting flexible. M. M. Marcuse. No. 1,046,474; Dec. 10; Gaz. vol. 185; p. 274.
Roller: *See* Cane-mill roller; Cotton-gin roller; Curtain-roller; Detachable roller; Inking-roller; Lace roller; Land-roller; Mounted roller; Pulverizing field-roller; Road-roller; Shade-roller; Spread-roller; Spring-roller; Winding-roller.
Roller and breast mill. I. A. Chavanne. No. 1,036,798; Aug. 27; Gaz. vol. 181; p. 916.
Roller and ditcher, Combined. W. A. Wilson. No. 1,014,733; Jan. 16; Sp. p. 3662; Gaz. vol. 174; p. 625.
Roller-retaining device. A. A. Warner. No. 1,014,680; Jan. 16; Sp. p. 3556; Gaz. vol. 174; p. 608.
Rolling annular plates, Machine for. E. I. Heinsohn, W. R. Edwards, and F. R. Klaus. No. 1,041,279; Oct. 15; Gaz. vol. 183; p. 610.
Rolling apparatus, Tube-. R. E. Brock and W. M. Selkirk. No. 1,020,399; Mar. 19; Sp. p. 2945; Gaz. vol. 176; p. 535.
Rolling flanged metal beams or bars. H. Grey. No. 1,034,361; July 30; Gaz. vol. 180; p. 1352.
Rolling iron or steel sheets. A. J. Maskrey. No. 1,029,936; June 18; Sp. p. 4084; Gaz. vol. 179; p. 709.
Rolling machine, Ball-. G. E. Abbott. No. 1,017,125; Feb. 13; Sp. p 1996; Gaz. vol. 175; p. 343.
Rolling machine, Metal-. J. K. Hauberg. No. 1,045,022; Nov. 19; Gaz. vol. 184; p. 749.
Rolling mechanism, Tubing-. W. M. Selkirk. No. 1,020,455; Mar. 19; Sp. p. 3062; Gaz. vol. 176; p. 554.
Rolling-mill. A. A. K. Nowak. No. 1,013,429; Jan. 2; Sp. p. 748; Gaz. vol. 174; p. 118.
Rolling-mill. A. A. K. Nowak. No. 1,024,485; Apr. 23; Sp. p. 5838; Gaz. vol. 177; p. 1015.
Rolling-mill. W. Vassen. No. 1,025,078; Apr. 30; Sp. p. 7148; Gaz. vol. 177; p. 1254.
Rolling-mill. R. Ludwig. No. 1,028,236; June 4; Sp. p. 386; Gaz. vol. 179; p. 55.
Rolling-mill. J. H. Blakesley. No. 1,030,865; July 2; Gaz. vol. 180; p. 6.
Rolling-mill. V. E. Edwards. No. 1,031,055; July 2; Gaz. vol. 180; p. 74.
Rolling-mill. V. E. Edwards. No. 1,040,293; Oct. 8; Gaz. vol. 183; p. 239.
Rolling-mill. V. E. Edwards. No. 1,041,757; Oct. 22; Gaz. vol. 183; p. 804.
Rolling-mill. C. L. Taylor. No. 1,045,636; Nov. 26; Gaz. vol. 184; p. 994.
Rolling-mill. J. Fawell. No. 1,047,023; Dec. 10; Gaz. vol. 185; p. 462.
Rolling-mill. D. F. Nisbet. No. 1,047,133; Dec. 10; Gaz. vol. 185; p. 502.
Rolling-mill and like machine, Two-high reversing. A. Lamberton. No. 1,024,475; Apr. 23; Sp. p. 5819; Gaz. vol. 177; p. 1011.
Rolling-mill appliance. H. R. Geer. No. 1,019,315; Mar. 5; Sp. p. 697; Gaz. vol. 176; p. 109.
Rolling-mill appliance. D. F. Nisbet. No. 1,038,421; Sept 10; Gaz. vol. 182; p. 452.
Rolling-mill brake device. A. A. K. Nowak. No. 1,041,661; Oct. 15; Gaz. vol. 183; p. 735.
Rolling-mill coupling-spindle. H. R. Geer. No. 1,041,772; Oct. 22; Gaz. vol. 183; p. 810.
Rolling-mill doubling-machine. P. J. Lynch. No. 1,047,425; Dec. 17; Gaz. vol. 185; p. 635.
Rolling-mill frictional driving mechanism. A. J. Jameson. No. 1,032,679; July 16; Gaz. vol. 180; p. 717.
Rolling-mill guide. H. J. Davis. No. 1,017,283; Feb. 13; Sp. p. 2336; Gaz. vol. 175; p. 398.
Rolling-mill guide-rest bar. J. Williams. No. 1,015,751; Jan. 23; Sp. p. 5860; Gaz. vol. 174; p. 999.
Rolling-mill, Roundabout. B. Versen. No. 1,044,953; Nov. 19; Gaz. vol. 184; p. 725.
Rolling-mill spindle-coupling. H. R. Geer. No. 1,041,773; Oct. 22; Gaz. vol. 183; p. 810.
Rolling-mill, Step-by-step. H. Ackermann. No. 1,038,710; Sept. 17; Gaz. vol. 182; p. 587.
Rolling mill, Tube-. A. A. K. Nowak. No. 1,036,309; Aug. 20; Gaz. vol. 181; p. 717.
Rolling mill, Tube-. H. Stüting. No. 1,040,812; Oct. 8; Gaz. vol. 183; p. 419.
Rolling mill, Tube-. M. Koch. No. 1,048,547; Dec. 31; Gaz. vol. 185; p. 1086.
Rolling-mills, Transfer-table for. P. Scheuer. No. 1,020,313; Mar. 12; Sp. p. 2769; Gaz. vol. 176; p. 469.
Rolling or reducing mill. W. R. Reeves. No. 1,021,628; Mar. 26; Sp. p. 5572; Gaz. vol. 176; p. 1001.
Rolling out metal tubes, Apparatus for. O. Windecker. No. 1,044,113; Nov. 12; Gaz. vol. 184; p. 405.
Rolling screen. C. Bauer. No. 1,044,120; Nov. 12; Gaz vol. 184; p. 407.
Rolling screw-bolts. J. Heller. No. 1,017,543; Feb. 13; Sp. p. 2887; Gaz. vol. 175; p. 487.
Rolling screw-bolts, Machine for. J. Heller. No. 1,018,317; Feb. 20; Sp. p. 4597; Gaz. vol. 175; p. 790.
Rolling shapes, Apparatus for. G. G. McMurtry. No. 1,021,468; Mar. 26; Sp. p. 5264; Gaz. vol. 176; p. 949.
Rolling tubes. A. Fassl. (Reissue.) No. 13,500; Dec. 24; Gaz. vol. 185; p. 1024.
Rolling tubing. R. E. Brock. No. 1,040,134; Oct. 1; Gaz. vol. 183; p. 155.
Roof. H. Schwarz. No. 1,024,808; Apr. 30; Sp. p. 6613; Gaz. vol. 177; p. 1163.
Roof and wall structures, Securing-clip for. A. L. Johnson. No. 1,029,612; June 18; Sp. p. 3342; Gaz. vol. 179; p. 595.
Roof-bracket. A. E. Tebbetts. No. 1,047,332; Dec. 17; Gaz. vol. 185; p. 605.
Roof-carline. D. M. Knox. No. 1,044,539; Nov. 19; Gaz. vol. 184; p. 581.
Roof construction. E. F. Hodgson. No. 1,028,725; June 4; Sp. p. 1409; Gaz. vol. 179; p. 219.
Roof construction. J. C. White. No. 1,044,612; Nov. 19; Gaz. vol. 184; p. 607.
Roof for silos or the like. C. E. Martin. No. 1,032,012; July 9; Gaz. vol. 180; p. 444.

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Roof-gutter, Sectional molded wood. H. E. Gallagher. No. 1,036,090; Aug. 20; Gaz. vol. 181; p. 640.
Roof-batch for storage-buildings. A. C. Johnston. No. 1,020,909; Mar. 19; Sp. p. 4038; Gaz. vol. 176; p. 705.
Roof-joint. C. A. Overton. No. 1,031,577; July 2; Gaz. vol. 180; p. 253.
Roof-light. A. Klein. No. 1,021,782; Apr. 2; Sp. p. 58; Gaz. vol. 177; p. 12.
Roof-worker's climbing device. S. B. Gray. No. 1,039,928; Oct. 1; Gaz. vol. 183; p. 86.
Roofs of buildings, Scaffolding attachment for. C. C. Carpenter. No. 1,018,031; Feb. 20; Sp. p. 3997; Gaz. vol. 175; p. 692.
Roofing, Attachment for corrugated. T. G. Brawley. No. 1,015,289; Jan. 23; Sp. p. 4850; Gaz. vol. 174; p. 840.
Roofing-cleat. H. R. Wardell. No. 1,017,611; Feb. 13; Sp. p. 3006; Gaz. vol. 175; p. 508.
Roofing, Cleat for securing. H. W. Topping. No. 1,018,946; Feb. 27; Sp. p. 6006; Gaz. vol. 175; p. 1036.
Roofing, Composite. H. Gillett. No. 1,044,773; Nov. 19; Gaz. vol. 184; p. 664.
Roofing, Composite. H. Gillett. No. 1,044,774; Nov. 19; Gaz. vol. 184; p. 665.
Roofing implement. W. B. Grischy. No. 1,032,669; July 16; Gaz. vol. 180; p. 713.
Roofing material. S. G. Wright. No. 1,022,764; Apr. 9; Sp. p. 2178; Gaz. vol. 177; p. 373.
Roofing material. C. Ellis. No. 1,026,855; May 21; Sp. p. 3881; Gaz. vol. 178; p. 670.
Roofing material. W. J. Moeller. No. 1,044,558; Nov. 19; Gaz. vol. 184; p. 587.
Roofing, Ornamenting prepared. M. B. Becker. No. 1,024,549; Apr. 30; Sp. p. 6043; Gaz. vol. 177; p. 1073.
Roofing-plate, Sheet-metal. H. E. Moomaw. No. 1,021,844; Apr. 2; Sp. p. 202; Gaz. vol. 177; p. 33.
Roofing, Prepared. M. B. Becker. No. 1,024,550; Apr. 30; Sp. p. 6045; Gaz. vol. 177; p. 1073.
Roofing, Ready-made. J. J. Smiley. No. 1,018,524; Feb. 27; Sp. p. 5122; Gaz. vol. 175; p. 893.
Roofing, Sheet-metal. K. Roth. No. 1,018,782; Feb. 27; Sp. p. 5676; Gaz. vol. 175; p. 981.
Roofing, Sheet metal. J. L. Faulhaber. No. 1,039,267; Sept. 24; Gaz. vol. 182; p. 795.
Roofing-tool. F. J. Dittrich. No. 1,017,390; Feb. 13; Sp. p. 2567; Gaz. vol. 175; p. 434.
Room-cooling apparatus. C. J. Stoddard. No. 1,024,159; Apr. 23; Sp. p. 5147; Gaz. vol. 177; p. 903.
Roost, Chicken-. R. E. Finley. No. 1,019,144; Mar. 5; Sp. p. 308; Gaz. vol. 176; p. 48.
Roost, Poultry-. A. B. Pond. No. 1,047,697; Dec. 17; Gaz. vol. 185; p. 733.
Root cutter and slicer. G. F. Thene. No. 1,023,973; Apr. 23; Sp. p. 4728; Gaz. vol. 177; p. 839.
Root cutter, Weed-. C. M. Deeks. No. 1,025,965; May 14; Sp. p. 1915; Gaz. vol. 178; p. 330.
Root-digger. M. B. Parker. No. 1,039,583; Sept. 24; Gaz. vol. 182; p. 906.
Root-puller. M. E. Grosser. No. 1,024,328; Apr. 23; Sp. p. 5487; Gaz. vol. 177; p. 962.
Root-separator. E. J. Estey and A. W. Rhodes. No. 1,041,052; Oct. 15; Gaz. vol. 183; p. 532.
Rope and cable splicing apparatus. H. H. Wilson and H. H. Rose. No. 1,035,388; Aug. 13; Gaz. vol. 181; p. 365.
Rope and the like, Device for handling. J. S. Sourek. No. 1,038,013; Sept. 10; Gaz. vol. 182; p. 314.
Rope and twine making machine. R. Delaney. No. 1,031,695; July 9; Gaz. vol. 180; p. 336.
Rope-clamp. G. W. Cameron. No. 1,024,974; Apr. 30; Sp. p. 6942; Gaz. vol. 177; p. 1221.
Rope-clamp. J. W. Isberg. No. 1,026,587; May 14; Sp. p. 3270; Gaz. vol. 178; p. 540.
Rope-clamp. C. A. Mechling, D. L. Thomas, and J. H. Kuhns. No. 1,035,891; Aug. 20; Gaz. vol. 181; p. 572.
Rope-clamp. W. Campbell. No. 1,042,529; Oct. 29; Gaz. vol. 183; p. 1095.
Rope-clip. J. S. Crosland. No. 1,029,345; June 11; Sp. p. 2779; Gaz. vol. 179; p. 468.
Rope-drive elevator. J. D. Ihlder. No. 1,016,691; Feb. 6; Sp. p. 1042; Gaz. vol. 175; p. 159.
Rope-drive elevator, Friction. E. Boening. No. 1,031,683; July 9; Gaz. vol. 180; p. 332.
Rope-engine for marine transfers. T. S. Miller. No. 1,037,508; Sept. 3; Gaz. vol. 182; p. 113.
Rope-making machine. W. Finlay. No. 1,030,235; June 18; Sp. p. 4709; Gaz. vol. 179; p. 810.
Rope-making machine. C. M. Kingman. No. 1,036,261; Aug. 20; Gaz. vol. 181; p. 701.
Rope or cord coupling. G. Mongardi. No. 1,036,679; Aug. 27; Gaz. vol. 181; p. 877.
Rope or strap fastening device. I. M. Fisher. No. 1,020,749; Mar. 19; Sp. p. 3723; Gaz. vol. 176; p. 653.
Rope-socket, Swivel. H. L. Jarvis. No. 1,019,794; Mar. 12; Sp. p. 1701; Gaz. vol. 176; p. 297.
Rope, Twisting device for making. O. C. H. Jeschke. No. 1,026,511; May 14; Sp. p. 3129; Gaz. vol. 178; p. 517.
Rosette, Shock-absorbing. S. B. Paine. No. 1,022,797; Apr. 9; Sp. p. 2240; Gaz. vol. 177; p. 384.
Roster, Office-. A. L. Glover. No. 1,033,096; July 23; Gaz. vol. 180; p. 894.
Rotary. H. R. Decker. No. 1,044,630; Nov. 19; Gaz. vol. 184; p. 613.
Rotary bit, Well-boring. C. W. Dodge. No. 1,017,206; Feb. 13; Sp. p. 2181; Gaz. vol. 175; p. 371.
Rotary cutter. M. C. Peters. No. 1,013,611; Jan. 2; Sp. p. 1126; Gaz. vol. 174; p. 180.
Rotary cutter. A. S. Vose. No. 1,019,728; Mar. 5; Sp. p. 1562; Gaz. vol. 176; p. 243.
Rotary cutter. P. Ganshorn. No. 1,033,001; July 16; Gaz. vol. 180; p. 823.
Rotary drier. R., W. G., and F. R. Simon. No. 1,030,210; June 18; Sp. p. 4661; Gaz. vol. 179; p. 801.
Rotary drier. S. W. Bonsall. No. 1,047,610; Dec. 17; Gaz. vol. 185; p. 702.
Rotary drier. S. W. Bonsall. No. 1,047,734; Dec. 17; Gaz. vol. 185; p. 745.
Rotary drier. S. W. Bonsall. No. 1,047,905; Dec. 17; Gaz. vol. 185; p. 804.
Rotary engine. G. A. Parker. No. 1,013,682; Jan. 2; Sp. p. 1328; Gaz. vol. 174; p. 205.
Rotary engine. G. P. Herrick. No. 1,014,150; Jan. 9; Sp. p. 2354; Gaz. vol. 174; p. 394.
Rotary engine. A. McCormick. No. 1,014,162; Jan. 9; Sp. p. 2381; Gaz. vol. 174; p. 398.
Rotary engine. B. Dahl. No. 1,014,378; Jan. 9; Sp. p. 2876; Gaz. vol. 174; p. 476.
Rotary engine. W. L. Ripsom. No. 1,015,979; Jan. 30; Sp. p. 6348; Gaz. vol. 174; p. 1104.
Rotary engine. C. Comstock. No. 1,016,129; Jan. 30; Sp. p. 6661; Gaz. vol. 174; p. 1158.
Rotary engine. H. L. Cummins. No. 1,017,139; Feb. 13; Sp. p. 2029; Gaz. vol. 175; p. 348.
Rotary engine. E. Heldt. No. 1,017,971; Feb. 20; Sp. p. 3876; Gaz. vol. 175; p. 670.
Rotary engine. W. T. Bennett. No. 1,018,737; Feb. 27; Sp. p. 5574; Gaz. vol. 175; p. 964.
Rotary engine. C. Christoffersen. No. 1,019,223; Mar. 5; Sp. p. 477; Gaz. vol. 176; p. 76.
Rotary engine. E. and T. Erickson. No. 1,020,271; Mar. 12; Sp. p. 2683; Gaz. vol. 176; p. 456.
Rotary engine. S. Sisson. No. 1,020,848; Mar. 19; Sp. p. 3923; Gaz. vol. 176; p. 686.
Rotary engine. G. F. Leiger. No. 1,023,321; Apr. 16; Sp. p. 3371; Gaz. vol. 177; p. 601.
Rotary engine. G. F. Leiger. No. 1,023,322; Apr. 16; Sp. p. 3373; Gaz. vol. 177; p. 602.
Rotary engine. A. Graner. No. 1,023,360; Apr. 16; Sp. p. 3434; Gaz. vol. 177; p. 613.
Rotary engine. F. P. Harmon. No. 1,023,468; Apr. 16; Sp. p. 3652; Gaz. vol. 177; p. 647.
Rotary engine. F. P. Hummel. No. 1,023,782; Apr. 16; Sp. p. 4244; Gaz. vol. 177; p. 746.
Rotary engine. A. P. Charles. No. 1,023,993; Apr. 23; Sp. p. 4767; Gaz. vol. 177; p. 846.
Rotary engine. G. W. Richardson. No. 1,024,363; Apr. 23; Sp. p. 5548; Gaz. vol. 177; p. 972.
Rotary engine. J. C. King. No. 1,024,787; Apr. 30; Sp. p. 6571; Gaz. vol. 177; p. 1156.
Rotary engine. J. Gougeon. No. 1,025,975; May 14; Sp. p. 1928; Gaz. vol. 178; p. 332.
Rotary engine. F. P. Hummel. No. 1,026,165; May 14; Sp. p. 2367; Gaz. vol. 178; p. 399.
Rotary engine. A. Stone. No. 1,026,474; May 14; Sp. p. 3060; Gaz. vol. 178; p. 504.
Rotary engine. J. H. Van Deventer. No. 1,026,887; May 21; Sp. p. 3960; Gaz. vol. 178; p. 682.
Rotary engine. C. J. Felio. No. 1,027,646; May 28; Sp. p. 5587; Gaz. vol. 178; p. 977.
Rotary engine. N. O. Allyn. No. 1,028,316; June 4; Sp. p. 552; Gaz. vol. 179; p. 81.
Rotary engine. E. J. M. Madero. No. 1,028,371; June 4; Sp. p. 676; Gaz. vol. 179; p. 102.
Rotary engine. J. T. Aabel. No. 1,028,848; June 11; Sp. p. 1677; Gaz. vol. 179; p. 295.
Rotary engine. C. Gilsbach. No. 1,029,677; June 18; Sp. p. 3488; Gaz. vol. 179; p. 618.
Rotary engine. G. F. Moors. No. 1,029,941; June 18; Sp. p. 4094; Gaz. vol. 179; p. 710.
Rotary engine. J. Slee, Sr. No. 1,031,592; July 2; Gaz. vol. 180; p. 257.
Rotary engine. I. Alford. No. 1,033,514; July 23; Gaz. vol. 180; p. 1034.
Rotary engine. W. McDonald. No. 1,034,133; July 30; Gaz. vol. 180; p. 1272.
Rotary engine. J. L. Schmehl and E. M. MacNally. No. 1,034,519; Aug. 6; Gaz. vol. 181; p. 40.
Rotary engine. W. C. Bosley. No. 1,034,682; Aug. 6; Gaz. vol. 181; p. 92.
Rotary engine. R. V. Smith. No. 1,035,253; Aug. 13; Gaz. vol. 181; p. 315.
Rotary engine. G. A. Bauer. No. 1,036,779; Aug. 27; Gaz. vol. 181; p. 909.
Rotary engine. C. T. Peigler. No. 1,037,655; Sept. 3; Gaz. vol. 182; p. 161.
Rotary engine. H. Lindenberg. No. 1,038,398; Sept. 10; Gaz. vol. 182; p. 443.
Rotary engine. R. H. Martin. No. 1,039,562; Sept. 24; Gaz. vol. 182; p. 898.
Rotary engine. G. W. Brown. No. 1,040,135; Oct. 1; Gaz. vol. 183; p. 155.
Rotary engine. R. Massohn and K. T. Sandreczki. No. 1,041,646; Oct. 15; Gaz. vol. 183; p. 729.

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Rotary engine. W. G. Macomber. No. 1,042,018; Oct. 22; Gaz. vol. 183; p. 894.
Rotary engine. J. Nielsen. No. 1,042,951; Oct. 29; Gaz. vol. 183; p. 1240.
Rotary engine. J. G. Wilson. No. 1,042,994; Oct. 29; Gaz. vol. 183; p. 1255.
Rotary engine. C. Q. Hayes. No. 1,043,697; Nov. 5; Gaz. vol. 184; p. 230.
Rotary engine. H. Lentz. No. 1,043,945; Nov. 12; Gaz. vol. 184; p. 347.
Rotary engine. H. Hermanns. No. 1,044,782; Nov. 19; Gaz. vol. 184; p. 668.
Rotary engine. U. Simons. No. 1,045,204; Nov. 26; Gaz. vol. 184; p. 841.
Rotary engine. C. B. Zahn. No. 1,045,656; Nov. 26; Gaz. vol. 184; p. 1002.
Rotary engine. J. P. Lawrenson. No. 1,046,203; Dec. 3; Gaz. vol. 185; p. 139.
Rotary engine. H. A. King. No. 1,046,607; Dec. 10; Gaz. vol. 185; p. 320.
Rotary engine. J. H. Van Deventer. No. 1,046,687; Dec. 10; Gaz. vol. 185; p. 349.
Rotary engine. A. C. Hall. No. 1,047,208; Dec. 17; Gaz. vol. 185; p. 558.
Rotary engine. O. Staff and W. Larson. No. 1,047,323; Dec. 17; Gaz. vol. 185; p. 602.
Rotary engine. S. S. Williams. No. 1,047,357; Dec. 17; Gaz. vol. 185; p. 613.
Rotary engine. C. F. Paul, Jr. No. 1,047,559; Dec. 17; Gaz. vol. 185; p. 684.
Rotary engine. G. P. Herrick. No. 1,048,158; Dec. 24; Gaz. vol. 185; p. 917.
Rotary engine. E. J. M. Madero. No. 1,048,844; Dec. 31; Gaz. vol. 185; p. 1190.
Rotary engine, Combined reciprocating. C. J. Lake. No. 1,014,401; Jan. 9; Sp. p. 2925; Gaz. vol. 174; p. 484.
Rotary engine, Reversible. F. D. Lambert and R. R. Resch. No. 1,029,616; June 18; Sp. p. 3351; Gaz. vol. 179; p. 597.
Rotary engine with piston of variable area. S. J. Johnson. No. 1,021,720; Mar. 26; Sp. p. 5737; Gaz. vol. 176; p. 1031.
Rotary explosion-engine. E. K. Standish. No. 1,033,748; July 23; Gaz. vol. 180; p. 1110.
Rotary explosion-engine. W. M. Myers. No. 1,043,454; Nov. 5; Gaz. vol. 184; p. 146.
Rotary explosive-engine. O. F. Edqvist. No. 1,026,911; May 21; Sp. p. 4019; Gaz. vol. 178; p. 690.
Rotary explosive-engine. G. Iochum. No. 1,033,701; July 23; Gaz. vol. 180; p. 1095.
Rotary explosive-engine. J. M. Novy. No. 1,038,424; Sept. 10; Gaz. vol. 182; p. 453.
Rotary explosive-engine. S. H. Ivery. No. 1,047,232; Dec. 17; Gaz. vol. 185; p. 567.
Rotary explosive-engine. J. T. Bustin. No. 1,047,913; Dec. 24; Gaz. vol. 185; p. 836.
Rotary explosive-motor. M. J. Helmes. No. 1,042,675; Oct. 29; Gaz. vol. 183; p. 1146.
Rotary gas-engine. H. R. Noyes. No. 1,016,764; Feb. 6; Sp. p. 1189; Gaz. vol. 175; p. 183.
Rotary gas-engine. E. Berliner. No. 1,032,983; July 16; Gaz. vol. 180; p. 817.
Rotary gas-engine. G. E. Hanley. No. 1,048,308; Dec. 24; Gaz. vol. 185; p. 966.
Rotary gasolene-engine. A. N. Dittlinger. No. 1,013,139; Jan. 2; Sp. p. 96; Gaz. vol. 174; p. 17.
Rotary gasolene-engine. H. Hendricks. No. 1,034,451; Aug. 6; Gaz. vol. 181; p. 17.
Rotary internal-combustion engine. A. G. Hathcock. No. 1,014,596; Jan. 9; Sp. p. 3279; Gaz. vol. 174; p. 546.
Rotary internal-combustion engine. J. F. Bourlon. No. 1,023,195; Apr. 16; Sp. p. 3123; Gaz. vol. 177; p. 558.
Rotary internal-combustion engine. O. A. Boyer. No. 1,025,117; May 7; Sp. p. 5; Gaz. vol. 178; p. 3.
Rotary internal-combustion engine. R. S. Dickinson. No. 1,034,213; July 30; Gaz. vol. 180; p. 1298.
Rotary internal-combustion engine. L. Haubner. No. 1,043,589; Nov. 5; Gaz. vol. 184; p. 194.
Rotary internal-explosion engine. J. C. Christensen and R. A. F. L. Anderberg. No. 1,027,182; May 21; Sp. p. 4652; Gaz. vol. 178; p. 781.
Rotary liquid-motor, Duplex reversible. W. E. Pearson. No. 1,042,596; Oct. 29; Gaz. vol. 183; p. 1118.
Rotary machine. K. Kiefer. No. 1,017,418; Feb. 13; Sp. p. 2629; Gaz. vol. 175; p. 445.
Rotary machine. H. L. Weed. No. 1,024,166; Apr. 23; Sp. p. 5157; Gaz. vol. 177; p. 906.
Rotary machine. A. Sadger. No. 1,028,285; June 4; Sp. p. 485; Gaz. vol. 179; p. 71.
Rotary members, Mechanism for relative reciprocation of. B. W. Traylor. No. 1,040,465; Oct. 8; Gaz. vol. 183; p. 297.
Rotary meter, Magnetic. H. A. Selah. No. 1,016,964; Feb. 13; Sp. p. 1633; Gaz. vol. 175; p. 287.
Rotary mixer. H. A. Seifke. No. 1,032,029; July 9; Gaz. vol. 180; p. 449.
Rotary motor. A. Brauer. No. 1,013,926; Jan. 9; Sp. p. 1876; Gaz. vol. 174; p. 319.
Rotary motor. J. F. Cesario. No. 1,017,850; Feb. 20; Sp. p. 3579; Gaz. vol. 175; p. 628.
Rotary motor. W. S. Elliott, E. R. Mills, and H. B. Holt. No. 1,019,771; Mar. 12; Sp. p. 1659; Gaz. vol. 176; p. 289.
Rotary motor. A. Peterson. No. 1,026,120; May 14; Sp. p. 2281; Gaz. vol. 178; p. 385.
Rotary motor. L. W. Bucher. No. 1,033,985; July 30; Gaz. vol. 180; p. 1220.
Rotary motor. J. C. Porter. No. 1,036,902; Aug. 27; Gaz. vol. 181; p. 949.
Rotary motor. H. Manrodt. No. 1,040,716; Oct. 8; Gaz. vol. 183; p. 388.
Rotary motor. P. J. Darlington. No. 1,041,040; Oct. 15; Gaz. vol. 183; p. 528.
Rotary motor. W. E. Pearson. No. 1,042,595; Oct. 29; Gaz. vol. 183; p. 1118.
Rotary motor. W. S. Elliott. No. 1,045,134; Nov. 26; Gaz. vol. 184; p. 816.
Rotary motor. J. C. Porter. No. 1,046,490; Dec. 10; Gaz. vol. 185; p. 279.
Rotary motor. E. Hartig and C. A. Ladwig. No. 1,047,518; Dec. 17; Gaz. vol. 185; p. 669.
Rotary motor. L. Brun. No. 1,048,391; Dec. 24; Gaz. vol. 185; p. 995.
Rotary motor. H. B. Holt. No. 1,048,453; Dec. 24; Gaz. vol. 185; p. 1015.
Rotary motor, Reversible. L. Brun. No. 1,048,468; Dec. 24; Gaz. vol. 185; p. 1021.
Rotary press. C. Rach. 1,018,267; Feb. 20; Sp. p. 4501; Gaz. vol. 175; p. 773.
Rotary press. J. T. Anderson. No. 1,040,842; Oct. 8; Gaz. vol. 183; p. 427.
Rotary screen. G. H. Worrall. No. 1,041,935; Oct. 22; Gaz. vol. 183; p. 867.
Rotary steam-engine. W. H. Ogden. No. 1,020,841; Mar. 19; Sp. p. 3909; Gaz. vol. 176; p. 683.
Rotary steam-engine. D. P. Upson. No. 1,022,570; Apr. 9; Sp. p. 1721; Gaz. vol. 177; p. 304.
Rotary steam-engine. D. P. Upson. No. 1,022,571; Apr. 9; Sp. p. 1723; Gaz. vol. 177; p. 304.
Rotary steam-engine. L. B. Gesner. No. 1,028,873; June 11; Sp. p. 1742; Gaz. vol. 179; p. 304.
Rotary steam-engine. O. H. Eaton. No. 1.038,321; Sept. 10; Gaz. vol. 182; p. 416.
Rotary steam-engine. A. A. Bilyeu. No. 1,039,353; Sept. 24; Gaz. vol. 182; p. 824.
Rotatable bin. E. F. von Borries. No. 1,016,911; Feb. 6; Sp. p. 1498; Gaz. vol. 175; p. 232.
Rotating bodies, Apparatus for determining the acceleration of. R. C. Clinker. No. 1,024,183; Apr. 23; Sp. p. 5192; Gaz. vol. 177; p. 912.
Rotating-cylinder engine. W. E. Minue. No. 1,019,908; Mar. 12; Sp. p. 1932; Gaz. vol. 176; p. 336.
Rotatory mechanism. C. F. Méndez. No. 1,035,377; Aug. 13; Gaz. vol. 181; p. 361.
Roundabout. R. and J. Lusse. No. 1,013,792; Jan. 2; Sp. p. 1534; Gaz. vol. 174; p. 244.
Roundabout. L. B. Stewart. No. 1,014,346; Jan. 9; Sp. p. 2810; Gaz. vol. 174; p. 464.
Roundabout. F. Miller. No. 1,015,971; Jan. 30; Sp. p. 6329; Gaz. vol. 174; p. 1101.
Roundabout. E. Dunning. No. 1,020,084; Mar. 12; Sp. p. 2296; Gaz. vol. 176; p. 393.
Roundabout. N. L. Mayhew. No. 1,033,258; July 23; Gaz. vol. 180; p. 950.
Roundabout. J. A. De Vito. No. 1,037,453; Sept. 3; Gaz. vol. 182; p. 95.
Roundabout. O. D. Brehman. No. 1,041,008; Oct. 15; Gaz. vol. 183; p. 517.
Roundabout. P. Steinert. No. 1,041,187; Oct. 15; Gaz. vol. 183; p. 578.
Roundabout or carousel. J. M. Taylor. No. 1,032,092; July 9; Gaz. vol. 180; p. 470.
Roundabout, Target-controlled. J. Lero. No. 1,019,972; Mar. 12; Sp. p. 2060; Gaz. vol. 176; p. 355.
Rounding-machine. A. R. Schoenky. No. 1,040,433; Oct. 8; Gaz. vol. 183; p. 285.
Route-indicator. J. B. Rhodes. No. 1,021,889; Apr. 2; Sp. p. 292; Gaz. vol. 177; p. 48.
Router and die-sinker, Combined. H. Melling. No. 1,028,125; June 4; Sp. p. 66; Gaz. vol. 179; p. 15.
Routing-machine. A. G. Osmer. No. 1,027,063; May 21; Sp. p. 4394; Gaz. vol. 178; p. 744.
Routing-machines or the like, Adjustable form for. J. E. Seguin. No. 1,022,883; Apr. 9; Sp. p. 2406; Gaz. vol. 177; p. 411.
Roving-clamp. F. C. Graddick. No. 1,023,638; Apr. 16; Sp. p. 4002; Gaz. vol. 177; p. 703.
Roving-machine. W. C. Peirce. No. 1,021,626; Mar. 26; Sp. p. 5567; Gaz. vol. 176; p. 1000.
Rowing apparatus, Gymnasium. R. Reach. No. 1,015,071; Jan. 16; Sp. p. 4407; Gaz. vol. 174; p. 741.
Rowing device. C. Felder. No. 1,032,886; July 16; Gaz. vol. 180; p. 785.
Rowing-machine. A. A. Pons. No. 1,013,437; Jan. 2; Sp. p. 764; Gaz. vol. 174; p. 121.
Rubber boot. J. T. Crowley. No. 1,037,448; Sept. 3; Gaz. vol. 182; p. 93.

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Rubber bulbs for atomizers, syringes, &c., Apparatus for producing. J. A. Murray. No. 1,040,737; Oct. 8; Gaz. vol. 183; p. 395.
Rubber-coated blanks, Apparatus for producing. W. W. Duncan and N. E. Tousley. No. 1,016,483; Feb. 6; Sp. p. 562; Gaz. vol. 175; p. 87.
Rubber composition. W. F. Beasley. No. 1,049,039; Dec. 31; Gaz. vol. 185; p. 1258.
Rubber-containing product, Producing a. A. E. Merritt. No. 1,045,053; Nov. 19; Gaz. vol. 184; p. 761.
Rubber, Curing india-. R. Derry. No. 1,030,651; June 25; Sp. p. 5837; Gaz. vol. 179; p. 999.
Rubber dress-shields, Machine for making. H. Cassirer. No. 1,025,122; May 7; Sp. p. 15; Gaz. vol. 178; p. 5.
Rubber-extracting apparatus. F. Sahlfeld. No. 1,048,892; Dec. 31; Gaz. vol. 185; p. 1206.
Rubber fabric, Coated-metal-wire. R. M. Bissell. No. 1,036,428; Aug. 20; Gaz. vol. 181; p. 759.
Rubber footwear, Manufacture of. M. C. Clark. No. 1,047,750; Dec. 17; Gaz. vol. 185; p. 752.
Rubber from materials with which it is commingled, Apparatus for separating. W. S. Blaine. No. 1,032,732; July 16; Gaz. vol. 180; p. 735.
Rubber from materials with which it is commingled, Separating. W. S. Blaine. No. 1,032,733; July 16; Gaz. vol. 180; p. 736.
Rubber goods, Manufacture, molding, and remolding of india-. T. Gare. No. 1,023,729; Apr. 16; Sp. p. 4155; Gaz. vol. 177; p. 729.
Rubber heel. J. Mladezki and P. Wenk. No. 1,044,222; Nov. 12; Gaz. vol. 184; p. 441.
Rubber heel. F. W. Kremer. No. 1,044,540; Nov. 19; Gaz. vol. 184; p. 581.
Rubber, Industrial manufacture of artificial. G. Reynaud. No. 1,032,428; July 16; Gaz. vol. 180; p. 630.
Rubber overshoe. A. E. Roberts. No. 1,027,438; May 28; Sp. p. 5183; Gaz. vol. 178; p. 909.
Rubber shoe. J. H. Roedding. No. 1,022,566; Apr. 9; Sp. p. 1714; Gaz. vol. 177; p. 302.
Rubber shoes, boots, and the like, Manufacture of. A. Schulze. No. 1,032,626; July 16; Gaz. vol. 180; p. 696.
Rubber soles for shoes and the like. F. Wette. No. 1,032,640; July 16; Gaz. vol. 180; p. 703.
Rubber to metals, Attaching. L. Daft. No. 1,036,576; Aug. 27; Gaz. vol. 181; p. 843.
Rubber vehicle-spring. M. Handy. No. 1,029,190; June 11; Sp. p. 2427; Gaz. vol. 179; p. 413.
Rubber waste, Apparatus for use in reclaiming vulcanized-. C. S. Heller. No. 1,024,936; Apr. 30; Sp. p. 6875; Gaz. vol. 177; p. 1208.
Rubber waste, Reclaiming vulcanized-. C. S. Heller. No. 1,024,937; Apr. 30; Sp. p. 6878; Gaz. vol. 177; p. 1208.
Rubbing-machine engine. J. J. Dickson. No. 1,017,389; Feb. 13; Sp. p. 2564; Gaz. vol. 175; p. 434.
Rubbing-machine, Pneumatic. J. J. Dickson. No. 1,017,388; Feb. 13; Sp. p. 2561; Gaz. vol. 175; p. 433.
Rubbing-post. W. Hudson. No. 1,046,595; Dec. 10; Gaz. vol. 185; p. 316.
Rudder, Emergency-. D. T. Lewis. No. 1,040,363; Oct. 8; Gaz. vol. 183; p. 262.
Rug. A. F. McCollum. No. 1,049,119; Dec. 31; Gaz. vol. 185; p. 1285.
Rug-fastener. H. Hoge and J. Schade, Jr. No. 1,018,194; Feb. 20; Sp. p. 4362; Gaz. vol. 175; p. 749.
Rug-finishing machine. F. Scheil. No. 1,040,024; Oct. 1; Gaz. vol. 183; p. 117.
Rug-stiffener. W. A. Scott. No. 1,030,685; June 25; Sp. p. 5915; Gaz. vol. 179; p. 1011.
Rugs, carpets, &c., Fastener for. F. S. Carr. No. 1,041,238; Oct. 15; Gaz. vol. 183; p. 594.
Rugs, curtains, and the like, Support for. F. Nessel. No. 1,032,021; July 9; Gaz. vol. 180; p. 447.
Rule. L. Voggenreiter. No. 1,028,507; June 4; Sp. p. 977; Gaz. vol. 179; p. 147.
Rule, Circular slide-. H. R. Watts. No. 1,017,719; Feb. 20; Sp. p. 3242; Gaz. vol. 175; p. 581.
Rule, Foldable. C. Wagenlander. No. 1,037,689; Sept. 3; Gaz. vol. 182; p. 173.
Rule, Gasolene-measuring. F. M. Edmonds and R. J. Goodnow. No. 1,019,442; Mar. 5; Sp. p. 1014; Gaz. vol. 176; p. 148.
Rule joint, Zigzag-. H. P. Richards. No. 1,026,367; May 14; Sp. p. 2831; Gaz. vol. 178; p. 468.
Rule, Liquid-. T. A. Sammons. No. 1,039,816; Oct. 1; Gaz. vol. 183; p. 49.
Rule, Lumber-. H. A. Paquette. No. 1,044,811; Nov. 19; Gaz. vol. 184; p. 677.
Rule, Plumb-. L. M. Rudy. No. 1,017,111; Feb. 13; Sp. p. 1968; Gaz. vol. 175; p. 338.
Rule, Printing-. A. G. Stevenson. No. 1,049,165; Dec. 31; Gaz. vol. 185; p. 1299.
Rule, Slide-. G. W. Richardson. No. 1,021,484; Mar. 26; Sp. p. 5287; Gaz. vol. 176; p. 953.
Rule, Slide-. A. N. Lurie. No. 1,028,237; June 4; Sp. p. 388; Gaz. vol. 179; p. 55.
Rule, Square-. S. Narunsky. No. 1,038,184; Sept. 10; Gaz. vol. 182; p. 370.
Ruler. F. Suddoth. No. 1,018,790; Feb. 27; Sp. p. 5689; Gaz. vol. 175; p. 983.
Ruler. P. E. Shee. No. 1,027,287; May 21; Sp. p. 4865; Gaz. vol. 178; p. 819.
Ruler and letter-scale, Combined. R. H. Millward. No. 1,045,425; Nov. 26; Gaz. vol. 184; p. 918.
Ruler attachment. W. A. Caldwell. No. 1,035,818; Aug. 13; Gaz. vol. 181; p. 509.
Ruling-machine. C. Burrows. No. 1,027,986; May 28; Sp. p. 6360; Gaz. vol. 178; p. 1092.
Ruling machine, Paper-. D. Cameron. No. 1,034,196; July 30; Gaz. vol. 180; p. 1293.
Ruling machines or printing-presses, Jogger for paper-. G. F. McAdams. No. 1,028,475; June 4; Sp. p. 916; Gaz. vol. 179; p. 137.
Run-opener and pole-guide. E. L. Merrill. No. 1,045,998; Dec. 3; Gaz. vol. 185; p. 68.
Runaway-stop. J. Peterson. No. 1,019,699; Mar. 5; Sp. p. 1501; Gaz. vol. 176; p. 233.
Runner, Detachable. A. G. Bittner. No. 1,035,521; Aug. 13; Gaz. vol. 181; p. 410.
Running-gear. D. G. Tatum. No. 1,032,311; July 9; Gaz. vol. 180; p. 546.
Saccharifying apparatus. V. Raisin. No. 1,018,778; Feb. 27; Sp. p. 5671; Gaz. vol. 175; p. 980.
Saccharine substances, Extraction of. C. L. Corcuera. No. 1,015,941; Jan. 30; Sp. p. 6266; Gaz. vol. 174; p. 1091.
Sack. W. H. Williams. No. 1,031,033; July 2; Gaz. vol. 180; p. 64.
Sack-cleaning machine. F. A. Belt. No. 1,039,082; Sept. 24; Gaz. vol. 182; p. 728.
Sack-holder. C. J. Hall. No. 1,036,225; Aug. 20; Gaz. vol. 181; p. 690.
Sad-iron. W. E. Hoyt. No. 1,015,185; Jan. 16; Sp. p. 4615; Gaz. vol. 174; p. 779.
Sad-iron. P. Pfeil. No. 1,015,742; Jan. 23; Sp. p. 5844; Gaz. vol. 174; p. 996.
Sad-iron. H. C. Neel and J. B. Hatfield. No. 1,019,181; Mar. 5; Sp. p. 390; Gaz. vol. 176; p. 62.
Sad-iron. G. E. Wait. No. 1,021,344; Mar. 26; Sp. p. 4961; Gaz. vol. 176; p. 905.
Sad-iron. M. Sunshine. No. 1,023,689; Apr. 16; Sp. p. 4085; Gaz. vol. 177; p. 717.
Sad-iron. A. H. Bickel. No. 1,024,306; Apr. 23; Sp. p. 5454; Gaz. vol. 177; p. 956.
Sad-iron. F. C. Emrick and P. G. Safford. No. 1,025,906; May 7; Sp. p. 1787; Gaz. vol. 178; p. 275.
Sad-iron. A. E. Abbott. No. 1,027,969; May 28; Sp. p. 6326; Gaz. vol. 178; p. 1085.
Sad-iron. G. W. Cann. No. 1,028,188; June 4; Sp. p. 294; Gaz. vol. 179; p. 38.
Sad-iron. A. H. and C. P. Waage. No. 1,030,036; June 18; Sp. p. 4280; Gaz. vol. 179; p. 742.
Sad-iron. H. Abramson. No. 1,030,221; June 18; Sp. p. 4681; Gaz. vol. 179; p. 805.
Sad-iron. C. P. Madsen. No. 1,034,129; July 30; Gaz. vol. 180; p. 1270.
Sad-iron. E. W. Cornell. No. 1,040,281; Oct. 8; Gaz. vol. 183; p. 234.
Sad-iron. L. Rosenbaum. No. 1,044,820; Nov. 19; Gaz. vol. 184; p. 680.
Sad-iron and cooker, Combination. C. P. Madsen. No. 1,018,576; Feb. 27; Sp. p. 5247; Gaz. vol. 175; p. 911.
Sad-iron and terminal box, Electric. L. F. Parkhurst. No. 1,027,666; May 28; Sp. p. 5637; Gaz. vol. 178; p. 983.
Sad-iron, Electric. E. H. Lux. No. 1,028,580; June 4; Sp. p. 1127; Gaz. vol. 179; p. 171.
Sad-iron, Electric. V. Schild. No. 1,029,233; June 11; Sp. p. 2519; Gaz. vol. 179; p. 428.
Sad-iron, Electric. L. E. Grubbs. No. 1,039,120; Sept. 24; Gaz. vol. 182; p. 741.
Sad-iron, Electrically-heated. E. L. Pollard. No. 1,027,895; May 28; Sp. p. 6190; Gaz. vol. 178; p. 1061.
Sad-iron, Electrically-heated. R. E. Clisby. No. 1,041,241; Oct. 15; Gaz. vol. 183; p. 596.
Sad-iron, Electrically-heated. E. L. Pollard. No. 1,043,864; Nov. 12; Gaz. vol. 184; p. 318.
Sad-iron, Gas-heated. H. A. Koenig. No. 1,047,953; Dec. 24; Gaz. vol. 185; p. 848.
Sad-iron, Gas heating. L. Wentes. No. 1,021,027; Mar. 26; Sp. p. 4292; Gaz. vol. 176; p. 797.
Sad-iron handle. F. H. Knight. No. 1,037,153; Aug. 27; Gaz. vol. 181; p. 1034.
Sad-iron handle. L. H. Burchett. No. 1,043,197; Nov. 5; Gaz. vol. 184; p. 54.
Sad-iron heater. M. J. Duffield. No. 1,023,137; Apr. 16; Sp. p. 2988; Gaz. vol. 177; p. 538.
Sad-iron heater. A. B. Holley. No. 1,037,251; Sept. 3; Gaz. vol. 182; p. 26.
Sad-iron holder, Removable. C. C. Tiedemann. No. 1,018,530; Feb. 27; Sp. p. 5136; Gaz. vol. 175; 894.
Sad-iron, Self-heating. H. Anderson and F. E. Kirby. No. 1,013,357; Jan. 2; Sp. p. 593; Gaz. vol. 174; p. 94.
Sad-iron, Self-heating. C. E. Adamson. No. 1,025,502; May 7; Sp. p. 884; Gaz. vol. 178; p. 138.
Sad-iron, Self-heating. G. H. Waters. No. 1,033,641; July 23; Gaz. vol. 180; p. 1077.
Sad-iron, Self-heating. J. T. Harrison. No. 1,036,099; Aug. 20; Gaz. vol. 181; p. 643.
Sad-iron, Self-heating. H. C. Hanson. No. 1,043,421; Nov. 5; Gaz. vol. 184; p. 134.

Alphabetical list of inventions—Continued.

Sad-iron shoe. H. I. Blattle. No. 1,023,802; Apr. 23; Sp. p. 4315; Gaz. vol. 177; p. 781.
Sad-iron stand. O. H. Frank. No. 1,030,510; June 25; Sp. p. 5371; Gaz. vol. 179; p. 949.
Sad-iron support. R. E. Clisby. No. 1,045,123; Nov. 26; Gaz. vol. 184; p. 813.
Sad-irons, Electric switch for. C. P. Madsen. No. 1,036,868; Aug. 27; Gaz. vol. 181; p. 939.
Sad-irons, Safety device for electric-heater. C. E. Skinner. No. 1,042,490; Oct. 29; Gaz. vol. 183; p. 1081.
Saddle. C. A. Persons. No. 1,016,031; Jan. 30; Sp. p. 6460; Gaz. vol. 174; p. 1124.
Saddle. C. A. Persons. No. 1,046,636; Dec. 10; Gaz. vol. 185; p. 331.
Saddle and back-band, Combined. W. J. Sessions. No. 1,040,035; Oct. 1; Gaz. vol. 183; p. 122.
Saddle attachment. W. H. Howard. No. 1,041,087; Oct. 15; Gaz. vol. 183; p. 544.
Saddle, Harness-. N. J. Sutton. No. 1,027,014; May 21; Sp. p. 4259; Gaz. vol. 178; p. 726.
Saddle, Harness-. T. H. Powell. No. 1,037,982; Sept. 10; Gaz. vol. 182; p. 305.
Saddle ring, Harness-. C. W. Stump. No. 1,032,354; July 9; Gaz. vol. 180; p. 561.
Saddle mechanism, Top-roll-. I. W. Doeg. No. 1,027,405; May 28; Sp. p. 5115; Gaz. vol. 178; p. 898.
Saddles, Apparatus for making harness-. W. F. Treece. No. 1,029,245; June 11; Sp. p. 2551; Gaz. vol. 179; p. 432.
Safe. T. W. Nygreen. No. 1,013,430; Jan. 2; Sp. p. 750; Gaz. vol. 174; p. 118.
Safe. J. E. Casserly. No. 1,018,606; Feb. 27; Sp. p. 5307; Gaz. vol. 175; p. 921.
Safe. P. E. Windmueller. No. 1,023,605; Apr. 16; Sp. p. 3939; Gaz. vol. 177; p. 692.
Safe. H. Mintz. No. 1,026,630; May 14; Sp. p. 3372; Gaz. vol. 178; p. 555.
Safe. H. Beshore. No. 1,026,649; May 21; Sp. p. 3438; Gaz. vol. 178; p. 600.
Safe. G. T. Lewis. No. 1,037,940; Sept. 10; Gaz. vol. 182; p. 290.
Safe. O. W. Bedell. No. 1,038,269; Sept. 10; Gaz. vol. 182; p. 399.
Safe. E. L. Mooney. No. 1,045,729; Nov. 26; Gaz. vol. 184; p. 1027.
Safe, Burglar-proof. P. X. Johnson. No. 1,026,207; May 14; Sp. p. 2479; Gaz. vol. 178; p. 414.
Safe, Burglar-proof. J. H. Howard. No. 1,029,996; June 18; Sp. p. 4197; Gaz. vol. 179; p. 728.
Safe-cabinet. C. F. Meilink. No. 1,020,652; Mar. 19; Sp. p. 3502; Gaz. vol. 176; p. 618.
Safe-door. G. Cook. No. 1,032,992; July 16; Gaz. vol. 180; p. 820.
Safe-frames, Forming. T. B. Newell. No. 1,040,567; Oct. 8; Gaz. vol. 183; p. 333.
Safe-lock, Auxiliary. A. E. Anakin and W. J. Shealy. No. 1,021,651; Mar. 26; Sp. p. 5610; Gaz. vol. 176; p. 1009.
Safe-lock, Ring-and-bolt. A. W. Marr. No. 1,041,127; Oct. 15; Gaz. vol. 183; p. 557.
Safe, Marine. P. X. Johnson. No. 1,026,208; May 14; Sp. p. 2480; Gaz. vol. 178; p. 415.
Safe, Miniature. H. Beshore. No. 1,033,982; July 30; Gaz. vol. 180; p. 1219.
Safe or steel-vault wall. F. W. Schilling. No. 1,026,461; May 14; Sp. p. 3029; Gaz. vol. 178; p. 500.
Safe or vault. A. S. Custer. No. 1,035,164; Aug. 13; Gaz. vol. 181; p. 285.
Safe, Portable fireproof. C. S. Pederson. No. 1,038,428; Sept. 10; Gaz. vol. 182; p. 455.
Safe, Wall-. J. J. Harrison. No. 1,023,425; Apr. 16; Sp. p. 3565; Gaz. vol. 177; p. 634.
Safety-alarm. J. Gesualdo and F. Baldassarre. No. 1,041,456; Oct. 15; Gaz. vol. 183; p. 668.
Safety apparatus for mining-cages, lifts, &c. C. H. Sivel. No. 1,032,710; July 16; Gaz. vol. 180; p. 727.
Safety appliance. W. E. Barton. No. 1,022,119; Apr. 2; Sp. p. 778; Gaz. vol. 177; p. 123.
Safety appliance. M. O. Godding. No. 1,039,517; Sept. 24; Gaz. vol. 182; p. 882.
Safety attachment. W. P. Alden. No. 1,046,364; Dec. 3; Gaz. vol. 185; p. 197.
Safety-brake. J. T. O'Neill. No. 1,028,596; June 4; Sp. p. 1161; Gaz. vol. 179; p. 177.
Safety-brake. J. A. Lyon. No. 1,033,428; July 23; Gaz. vol. 180; p. 1006.
Safety-brake for elevators, hoists, and lifts. F. Huth. No. 1,023,252; Apr. 16; Sp. p. 3226; Gaz. vol. 177; p. 577.
Safety-brake, Mine-carriage and elevator automatic. G. von Daam. No. 1,016,114; Jan. 30; Sp. p. 6637; Gaz. vol. 174; p. 1154.
Safety-chair for window-cleaners. C. Blum. No. 1,028,319; June 4; Sp. p. 557; Gaz. vol. 179; p. 82.
Safety-chest. L. Myers. No. 1,044,228; Nov. 12; Gaz. vol. 184; p. 443.
Safety-clamp for drill-rods, &c. C. Wommer. No. 1,036,400; Aug. 20; Gaz. vol. 181; p. 750.
Safety device. C. F. Peel. No. 1,019,081; Mar. 5; Sp. p. 159; Gaz. vol. 176; p. 26.
Safety device. A. Ensslin. No. 1,025,386; May 7; Sp. p. 625; Gaz. vol. 178; p. 97.
Safety device. W. T. Murphy. No. 1,046,840; Dec. 10; Gaz. vol. 185; p. 402.
Safety device, Automatic. G. E. Thurber. No. 1,032,033; July 9; Gaz. vol. 180; p. 451.
Safety device, Quick-acting. C. R. Pratt. No. 1,040,578; Oct. 8; Gaz. vol. 183; p. 337.
Safety-elevator. P. J. Rivers. No. 1,038,961; Sept. 17; Gaz. vol. 182; p. 673.
Safety-gate for bridges and railway-crossings. M. E. Frank. No. 1,041,454; Oct. 15; Gaz. vol. 183; p. 667.
Safety-hook, Automatic. A. C. Adams. No. 1,041,399; Oct. 15; Gaz. vol. 183; p. 649.
Safety-lock. C. A. Müller. No. 1,031,953; July 9; Gaz. vol. 180; p. 426.
Safety-lock. G. E. Cleveland. No. 1,040,509; Oct. 8; Gaz. vol. 183; p. 312.
Safety-lock. H. Wegmann. No. 1,041,388; Oct. 15; Gaz. vol. 183; p. 645.
Safety-lock for keyholes. T. E. Good. No. 1,022,474; Apr. 9; Sp. p. 1523; Gaz. vol. 177; p. 273.
Safety-lock for pocket-books. S. W. Wilson. No. 1,030,957; July 2; Gaz. vol. 180; p. 37.
Safety-lock for relatively reciprocal members. W. H. Cameron. No. 1,031,836; July 9; Gaz. vol. 180; p. 385.
Safety-lock with controlling device, Variable. B. Kotkovsky. No. 1,040,696; Oct. 8; Gaz. vol. 183; p. 382.
Safety-pin. A. Wright. No. 1,019,578; Mar. 5; Sp. p. 1282; Gaz. vol. 176; p. 192.
Safety-pin. L. Brody. No. 1,024,717; Apr. 30; Sp. p. 6420; Gaz. vol. 177; p. 1131.
Safety-pin. A. Wright. (Reissue.) No. 13,415; May 7; Sp. p. 1897; Gaz. vol. 178; p. 292.
Safety-pin. F. Raupach. No. 1,028,784; June 4; Sp. p. 1539; Gaz. vol. 179; p. 240.
Safety-pin. J. H. Robinson. No. 1,030,431; June 25; Sp. p. 5172; Gaz. vol. 179; p. 920.
Safety-pin. J. C. Reynolds. No. 1,038,202; Sept. 10; Gaz. vol. 182; p. 375.
Safety-pin and button. F. E. Williams. No. 1,046,243; Dec. 3; Gaz. vol. 185; p. 155.
Safety-pin coil-guard. M. T. Goldsmith. No. 1,030,076; June 18; Sp. p. 4381; Gaz. vol. 179; p. 756.
Safety-pin, Flat. Z. J. Frederick. No. 1,013,482; Jan. 2; Sp. p. 855; Gaz. vol. 174; p. 137.
Safety-rack. E. J. Perley. No. 1,037,520; Sept. 3; Gaz. vol. 182; p. 117.
Safety-switch. H. B. Shreve. No. 1,039,600; Sept. 24; Gaz. vol. 182; p. 911.
Safety-switch, Automatic. E. Routt. No. 1,014,906; Jan. 16; Sp. p. 4049; Gaz. vol. 174; p. 685.
Sago substitute and making the same from corn-starch, Pearl-. F. G. Lorenzen. No. 1,024,214; Apr. 23; Sp. p. 5272; Gaz. vol. 177; p. 924.
Sales-recording machine. F. N. Brewer, S. B. Tily, J. G. and M. O. Rehfuss. No. 1,045,118; Nov. 26; Gaz. vol. 184; p. 811.
Sales-slip. A. G. Mowat. No. 1,024,522; Apr. 30; Sp. p. 5970; Gaz. vol. 177; p. 1063.
Salt and pepper cellar. E. Peri. No. 1,014,413; Jan. 9; Sp. p. 2945; Gaz. vol. 174; p. 488.
Salt and pepper container, Combined. J. H. Leiner. No. 1,035,884; Aug. 20; Gaz. vol. 181; p. 570.
Salt-cake furnace. J. H. Nield. No. 1,033,825; July 30; Gaz. vol. 180; p. 1163.
Salt-cellar. W. M. English. No. 1,027,467; May 28; Sp. p. 5232; Gaz. vol. 178; p. 918.
Salt-shaker. C. E. Bauermeister. No. 1,028,663; June 4; Sp. p. 1297; Gaz. vol. 179; p. 199.
Salt-trough. W. A. Cogdill. No. 1,036,962; Aug. 27; Gaz. vol. 181; p. 970.
Salts and manufacture of same, Halogenphenolalkali. P. Flemming. No. 1,036,087; Aug. 20; Gaz. vol. 181; p. 639.
Salts, Manufacturing oxygenated. G. F. Jaubert. No. 1,047,645; Dec. 17; Gaz. vol. 185; p. 714.
Salts non-corrosive, Rendering commercial. S. Peacock. No. 1,036,896; Aug. 27; Gaz. vol. 181; p. 948.
Salve, Making. J. W. Herald. No. 1,022,239; Apr. 2; Sp. p. 1035; Gaz. vol. 177; p. 165.
Sample-case. A. W. Wermerskirchen. No. 1,013,576; Jan. 2; Sp. p. 1047; Gaz. vol. 174; p. 169.
Sample-case. B. M. Vaughn. No. 1,047,343; Dec. 17; Gaz. vol. 185; p. 609.
Sample-case, Roll. E. B. Wright. No. 1,049,025; Dec. 31; Gaz. vol. 185; p. 1253.
Sample-folder. W. H. Britsch. No. 1,028,184; June 4; Sp. p. 288; Gaz. vol. 179; p. 37.
Sample-holding device. A. Mueller. No. 1,032,851; July 16; Gaz. vol. 180; p. 775.
Samples of finely-divided material, Device for collecting. J. N. Reed. No. 1,024,282; Apr. 23; Sp. p. 5414; Gaz. vol. 177; p. 948.
Sampling mechanism, Automatic. F. S. Ingoldsby. No. 1,024,134; Apr. 23; Sp. p. 5093; Gaz. vol. 177; p. 896.
Sand and gold saving machine and undercurrent, Black-. C. J. Evans. No. 1,032,746; July 16; Gaz. vol. 180; p. 740.
Sand, Apparatus for preparing old and new molding-. G. Hoffmann. No. 1,036,239; Aug. 20; Gaz. vol. 181; p. 694.

Sand-blast. J. C. Myles and H. Girvin. No. 1,038,781; Sept. 17; Gaz. vol. 182; p. 612.
Sand-blast apparatus. L. Sauer. No. 1,032,777; July 16; Gaz. vol. 180; p. 750.
Sand-blast apparatus. H. B. Heaslet. No. 1,037,760; Sept. 3; Gaz. vol. 182; p. 195.
Sand-blast device. A. Jorn, Jr. No. 1,016,415; Feb. 6; Sp. p. 398; Gaz. vol. 175; p. 63.
Sand-blast device. W. Macleod and W. Hext. No. 1,026,688; May 21; Sp. p. 3517; Gaz. vol. 178; p. 613.
Sand-blast machine. J. J. Strasser. No. 1,039,840; Oct. 1; Gaz. vol. 183; p. 58.
Sand-cleaning attachment for sand-distributers. I. A. Gibbs. No. 1,048,146; Dec. 24; Gaz. vol. 185; p. 913.
Sand cutting and riddling machine. G. F. Bowdle and J. F. O'Brien. No. 1,033,378; July 23; Gaz. vol. 180; p. 991.
Sand-drier. T. N. Smith. No. 1,034,656; Aug. 6; Gaz. vol. 181; p. 83.
Sand-drier. T. N. Smith. No. 1,041,523; Oct. 15; Gaz. vol. 183; p. 690.
Sand-drying furnace. F. W. Adlof. No. 1,018,951; Feb. 27; Sp. p. 6017; Gaz. vol. 175; p. 1038.
Sand-feeding device. W. E. Matthews, Jr. No. 1,016,509; Feb. 6; Sp. p. 625; Gaz. vol. 175; p. 96.
Sand-mold-jarring machine. E. C. Wiley. No. 1,039,622; Sept. 24; Gaz. vol. 182; p. 918.
Sand-mold-making machine. J. M. Hannon. No. 1,041,274; Oct. 15; Gaz. vol. 183; p. 608.
Sand molds, Method of and apparatus for making. J. C. Bannister. No. 1,034,334; July 30; Gaz. vol. 180; p. 1341.
Sand-molding machine. W. C. Norcross. No. 1,031,084; July 2; Gaz. vol. 180; p. 84.
Sand-pipe for sander devices. H. Vissering. No. 1,018,143; Feb. 20; Sp. p. 4255; Gaz. vol. 175; p. 731.
Sand-separating machine, Black-. J. M. Burch. No. 1,017,506; Feb. 13; Sp. p. 2813; Gaz. vol. 175; p. 475.
Sand-separator. A. P. Silliman and J. F. Lindberg. No. 1,044,091; Nov. 12; Gaz. vol. 184; p. 398.
Sand-washing apparatus. W. Yeo. No. 1,020,868; Mar. 19; Sp. p. 3974; Gaz. vol. 176; p. 692.
Sand-washing apparatus. L. M. Speer. No. 1,021,009; Mar. 26; Sp. p. 4260; Gaz. vol. 176; p. 791.
Sander or smoothing-machine. J. L. Mary and M. Lambert. No. 1,019,066; Mar. 5; Sp. p. 115; Gaz. vol. 176; p. 22.
Sanding device. J. W. Barth. No. 1,027,517; May 28; Sp. p. 5335; Gaz. vol. 178; p. 934.
Sanding device. L. T. Duncan. No. 1,029,599; June 18; Sp. p. 3316; Gaz. vol. 179; p. 590.
Sanding device for motor-cars. E. Heller. No. 1,032,671; July 16; Gaz. vol. 180; p. 714.
Sanding-machine. E. G. Cox. No. 1,022,827; Apr. 9; Sp. p. 2303; Gaz. vol. 177; p. 394.
Sanding-machine. J. W. Kroeze. No. 1,030,473; June 25; Sp. p. 5274; Gaz. vol. 179; p. 935.
Sanding-machine. J. W. Kroeze. No. 1,042,354; Oct. 22; Gaz. vol. 183; p. 1004.
Sandpaper-drum. H. J. Mitchell. No. 1,016,511; Feb. 6; Sp. p. 628; Gaz. vol. 175; p. 96.
Sandpaper-holder. O. C. Miller. No. 1,024,015; Apr. 23; Sp. p. 4805; Gaz. vol. 177; p. 853.
Sandpapering and polishing machines, Dust-proof pad for. F. Schimmel. No. 1,045,894; Dec. 3; Gaz. vol. 185; p. 34.
Sandpapering-machine. F. Schimmel. No. 1,025,836; May 7; Sp. p. 1591; Gaz. vol. 178; p. 252.
Sandpapering-machine. F. Schimmel. No. 1,027,439; May 28; Sp. p. 5184; Gaz. vol. 178; p. 909.
Sanitary appliance. B. Worthington. No. 1,017,940; Feb. 20; Sp. p. 3801; Gaz. vol. 175; p. 660.
Sanitary closet. J. H. King. No. 1,017,675; Feb. 20; Sp. p. 3148; Gaz. vol. 175; p. 567.
Sanitary closet. M. J. Frambach and A. R. Corrington. No. 1,041,263; Oct. 15; Gaz. vol. 183; p. 604.
Sanitary cup. G. T. Reichenbach. No. 1,048,583; Dec. 31; Gaz. vol. 185; p. 1098.
Sanitary fixture. R. E. Crane. No. 1,039,903; Oct. 1; Gaz. vol. 183; p. 79.
Sanitary seat. S. A. Girouard. No. 1,036,217; Aug. 20; Gaz. vol. 181; p. 688.
Sap-bucket cover. P. Reynolds. No. 1,046,857; Dec. 10; Gaz. vol. 185; p. 408.
Sap-cup and support therefor. C. L. Krager. No. 1,044,058; Nov. 12; Gaz. vol. 184; p. 386.
Sap-gatherer. J. M. Harrison. No. 1,016,406; Feb. 6; Sp. p. 379; Gaz. vol. 175; p. 60.
Sap-heater. L. M. Voss. No. 1,023,896; Apr. 23; Sp. p. 4558; Gaz. vol. 177; p. 813.
Sap-receptacles, Manufacturing one-piece folded sheet-metal. C. Stollberg. No. 1,048,754; Dec. 31; Gaz. vol. 185; p. 1158.
Sap-spout. C. C. Stelle. No. 1,042,834; Oct. 29; Gaz. vol. 183; p. 1201.
Sardine-can. G. W. Weber. No. 1,030,358; June 25; Sp. p. 5014; Gaz. vol. 179; p. 894.
Sardines, Packing. W. E. Taylor. No. 1,016,046; Jan. 30; Sp. p. 6497; Gaz. vol. 174; p. 1130.
Sash-adjusting device, Window-. A. G. Lindley and N. F. Dickens. No. 1,021,937; Apr. 2; Sp. p. 379; Gaz. vol. 177; p. 63.
Sash and frame, Sheet-metal window. M. Swartz. No. 1,017,341; Feb. 13; Sp. p. 2456; Gaz. vol. 175; p. 418.
Sash and frame, Window. J. McCausland and W. Bailey. No. 1,025,414; May 7; Sp. p. 675; Gaz. vol. 178; p. 106.
Sash and screen, Combined window. M. Hikes. No. 1,038,138; Sept. 10; Gaz. vol. 182; p. 355.
Sash and transom, Deck. T. W. Cottle. No. 1,037,134; Aug. 27; Gaz. vol. 181; p. 1028.
Sash and weather-guard therefor, Window-. A. H. Newpher. No. 1,035,034; Aug. 6; Gaz. vol. 181; p. 210.
Sash and weather-guard therefor, Window-. A. H. Newpher. No. 1,035,035; Aug. 6; Gaz. vol. 181; p. 210.
Sash antirattling device, Window-. N. Harris. No. 1,035,005; Aug. 6; Gaz. vol. 181; p. 202.
Sash, Balance window-. H. Knox. No. 1,026,398; May 14; Sp. p. 2887; Gaz. vol. 178; p. 479.
Sash-balancing device. W. Sawyer. No. 1,014,182; Jan. 9; Sp. p. 2417; Gaz. vol. 174; p. 405.
Sash-balancing mechanism. E. Georgeff. No. 1,023,731; Apr. 16; Sp. p. 4158; Gaz. vol. 177; p. 730.
Sash-bars, Jointing metal. F. H. Crittall. No. 1,016,916; Feb. 6; Sp. p. 1508; Gaz. vol. 175; p. 233.
Sash-center. A. A. Page. No. 1,031,287; July 2; Gaz. vol. 180; p. 155.
Sash clip, Metallic-window-. C. W. Davock. No. 1,022,123; Apr. 2; Sp. p. 783; Gaz. vol. 177; p. 125.
Sash, Convertible window-. H. F. Eilert. No. 1,023,726; Apr. 16; Sp. p. 4147; Gaz. vol. 177; p. 728.
Sash-cord fastener. L. W. Smart. No. 1,018,214; Feb. 20; Sp. p. 4395; Gaz. vol. 175; p. 755.
Sash-cord fastener. O. V. Flora. No. 1,020,751; Mar. 19; Sp. p. 3725; Gaz. vol. 176; p. 653.
Sash-cord fastener. F. Lundstrom. No. 1,046,619; Dec. 10; Gaz. vol. 185; p. 325.
Sash-fastener. G. Langkans. No. 1,015,624; Jan. 23; Sp. p. 5586; Gaz. vol. 174; p. 957.
Sash-fastener. L. R. Killingsworth. No. 1,018,427; Feb. 27; Sp. p. 4858; Gaz. vol. 175; p. 860.
Sash-fastener. C. W. Roberts. No. 1,035,470; Aug. 13; Gaz. vol. 181; p. 392.
Sash-fastener. J. F. Parent. No. 1,037,302; Sept. 3; Gaz. vol. 182; p. 41.
Sash-fastener. G. M. Farnham. No. 1,047,020; Dec. 10; Gaz. vol. 185; p. 461.
Sash-fastener. W. F. Flaniken. No. 1,048,401; Dec. 24; Gaz. vol. 185; p. 998.
Sash fastener and antirattling device, Combined. M. J. D. Rast. No. 1,038,199; Sept. 10; Gaz. vol. 182; p. 374.
Sash-fastener, Portable. J. E. Horstmyer. No. 1,019,006; Feb. 27; Sp. p. 6162; Gaz. vol. 175; p. 1058.
Sash-glazing clip, Metallic-. W. E. Ulrich. No. 1,039,224; Sept. 24; Gaz. vol. 182; p. 779.
Sash-holder. O. Rousseau. No. 1,015,082; Jan. 16; Sp. p. 4427; Gaz. vol. 174; p. 744.
Sash-holder. W. H. Kelly. No. 1,019,051; Mar. 5; Sp. p. 86; Gaz. vol. 176; p. 17.
Sash-holder. W. A. Hell. No. 1,030,469; June 25; Sp. p. 5246; Gaz. vol. 179; p. 934.
Sash-holder. J. P. Duncan. No. 1,031,633; July 2; Gaz. vol. 180; p. 272.
Sash holder and lock. W. M. Hotchkiss. No. 1,024,780; Apr. 30; Sp. p. 6552; Gaz. vol. 177; p. 1154.
Sash holder, Automatic window-. I. L. Dempsey. No. 1,048,663; Dec. 31; Gaz. vol. 185; p. 1127.
Sash holder, Window-. S. B. Crane. No. 1,044,144; Nov. 12; Gaz. vol. 184; p. 414.
Sash-holding device. W. Gorst. No. 1,031,178; July 2; Gaz. vol. 180; p. 117.
Sash-holding device. W. M. Ducker. No. 1,031,429; July 2; Gaz. vol. 180; p. 204.
Sash, Hot-bed. D. W. Bennett. No. 1,024,113; Apr. 23; Sp. p. 5034; Gaz. vol. 177; p. 889.
Sash-inserting tool. J. B. Glowacki. No. 1,043,921; Nov. 12; Gaz. vol. 184; p. 339.
Sash-lifter. F. J. Odermatt. No. 1,019,690; Mar. 5; Sp. p. 1487; Gaz. vol. 176; p. 230.
Sash-lock. E. Fleming and A. M. Marsh. No. 1,019,623; Mar. 5; Sp. p. 1367; Gaz. vol. 176; p. 208.
Sash-lock. G. F. Seidenbecker. No. 1,020,454; Mar. 19; Sp. p. 3061; Gaz. vol. 176; p. 554.
Sash-lock. F. W. Chausse. No. 1,020,637; Mar. 19; Sp. p. 3475; Gaz. vol. 176; p. 613.
Sash-lock. C. Parsons. No. 1,023,391; Apr. 16; Sp. p. 3507; Gaz. vol. 177; p. 624.
Sash-lock. C. N. Estes. No. 1,024,681; Apr. 30; Sp. p. 6347; Gaz. vol. 177; p. 1118.
Sash-lock. A. E. Blake. No. 1,026,489; May 14; Sp. p. 3083; Gaz. vol. 178; p. 508.
Sash-lock. P. G. Emery. No. 1,032,534; July 16; Gaz. vol. 180; p. 665.
Sash-lock. J. Schmittberger. No. 1,036,347; Aug. 20; Gaz. vol. 181; p. 731.
Sash-lock. W. J. Diedrich. No. 1,036,583; Aug. 27; Gaz. vol. 181; p. 845.
Sash-lock. D. Dowd. No. 1,037,219; Sept. 3; Gaz. vol. 182; p. 14.
Sash-lock. H. Schafer. No. 1,046,110; Dec. 3; Gaz. vol. 185; p. 107.

Alphabetical list of inventions—Continued.

Sash lock and antirattler. J. De Mars. No. 1,030,506; June 25; Sp. p. 5362; Gaz. vol. 179; p. 947.
Sash lock and lift. W. Jansen. No. 1,026,747; May 21; Sp. p. 3641; Gaz. vol. 178; p. 633.
Sash lock and lift. J. A. Giese. No. 1,029,803; June 18; Sp. p. 3768; Gaz. vol. 179; p. 663.
Sash-lock and weather-strip. Combination gravity. W. T. McFarland. No. 1,045,869; Dec. 3; Gaz. vol. 185; p. 25.
Sash-lock, Automatic. E. H. Rempe and F. M. Ross. No. 1,023,442; Apr. 16; Sp. p. 3599; Gaz. vol. 177; p. 640.
Sash lock or fastener. A. C. Rodatt. No. 1,026,051; May 14; Sp. p. 2118; Gaz. vol. 178; p. 359.
Sash lock, Window-. S. C. Sladden. No. 1,022,889; Apr. 9; Sp. p. 2419; Gaz. vol. 177; p. 413.
Sash lock, Window-. A. E. Hanson. No. 1,023,014; Apr. 9; Sp. p. 2681; Gaz. vol. 177; p. 457.
Sash lock, Window-. J. A. Giese. No. 1,029,804; June 18; Sp. p. 3770; Gaz. vol. 179; p. 663.
Sash lock, Window-. T. Mann. No. 1,035,985; Aug. 20; Gaz. vol. 181; p. 602.
Sash lock, Window-. W. Cunningham. No. 1,040,156; Oct. 1; Gaz. vol. 183; p. 163.
Sash lock, Window-. N. Kahn. No. 1,043,842; Nov. 12; Gaz. vol. 184; p. 311.
Sash lock, Window-. B. J. Jacoway. No. 1,046,301; Dec. 3; Gaz. vol. 185; p. 175.
Sash-locking device. E. M. Erb. No. 1,025,134; May 7; Sp. p. 51; Gaz. vol. 178; p. 10.
Sash, Metal window-. E. R. Viberg. No. 1,027,675; May 28; Sp. p. 5661; Gaz. vol. 178; p. 986.
Sash, Metal window-. T. Emtman. No. 1,031,779; July 9; Gaz. vol. 180; p. 365.
Sash, Metal window-. W. and W. D. Bayley. No. 1,042,524; Oct. 29; Gaz. vol. 183; p. 1093.
Sash, Metallic. B. S. McClellan. No. 1,045,580; Nov. 26; Gaz. vol. 184; p. 974.
Sash-mounting. C. K. Olberg. No. 1,042,591; Oct. 29; Gaz. vol. 183; p. 1117.
Sash-operating mechanism, Window-. W. von Wolffradt. No. 1,028,171; June 4; Sp. p. 263; Gaz. vol. 179; p. 32.
Sash operator, Window-. H. N. Davock. No. 1,018,034; Feb. 20; Sp. p. 4002; Gaz. vol. 175; p. 693.
Sash ratchet, Deck-. A. E. McKinnon. No. 1,019,068; Mar. 5; Sp. p. 136; Gaz. vol. 176; p. 22.
Sash-securing appliance, Window-. B. F. Bowen. No. 1,037,117; Aug. 27; Gaz. vol. 181; p. 1023.
Sash, Storm-. C. E. Cummins. No. 1,045,681; Nov. 26; Gaz. vol. 184; p. 1011.
Sash-weight. F. R. Vierling. No. 1,048,607; Dec. 31; Gaz. vol. 185; p. 1106.
Sash weight and lock, Combined. C. H. Evans. No. 1,047,018; Dec. 10; Gaz. vol. 185; p. 460.
Sash, Window-. J. W. Adams. No. 1,014,737; Jan. 16; Sp. p. 3669; Gaz. vol. 174; p. 627.
Sash, Window-. J. Kahn. No. 1,018,503; Feb. 27; Sp. p. 5032; Gaz. vol. 175; p. 885.
Sash, Window-. W. S. Hamm. No. 1,029,189; June 11; Sp. p. 2426; Gaz. vol. 179; p. 413.
Sash, Window-. A. H. Newpher. No. 1,029,217; June 11; Sp. p. 2485; Gaz. vol. 179; p. 423.
Sash, Window-. E. H. Lunken. No. 1,029,381; June 11; Sp. p. 2854; Gaz. vol. 179; p. 480.
Sash, Window-. A. H. Newpher. No. 1,031,364; July 2; Gaz. vol. 180; p. 181.
Sash, Window-. B. Katusky. No. 1,032,143; July 9; Gaz. vol. 180; p. 487.
Sash, Window-. V. G. Crittall. No. 1,046,444; Dec. 10; Gaz. vol. 185; p. 262.
Sashes, Pivot for deck-. B. F. Pierson. No. 1,031,025; July 2; Gaz. vol. 180; p. 62.
Sashes, Swinging stop device for sliding. L. Fontannaz. No. 1,047,191; Dec. 17; Gaz. vol. 185; p. 551.
Sashes, Window-holder for sliding. W. S. and E. J. Mason. No. 1,027,874; May 28; Sp. p. 6137; Gaz. vol. 178; p. 1053.
Satchel-frame lock. J. Ritter. No. 1,045,439; Nov. 26; Gaz. vol. 184; p. 923.
Satchel, &c., handle. A. V. Sammis. No. 1,023,175; Apr. 16; Sp. p. 3083; Gaz. vol. 177; p. 551.
Satchel-lock. D. Morgenstern and M. Brill. No. 1,022,202; Apr. 2; Sp. p. 956; Gaz. vol. 177; p. 153.
Satchels, &c., Locking device for. L. Williams. No. 1,034,050; July 30; Gaz. vol. 180; p. 1244.
Saucepan-cover. W. Noakes. No. 1,021,066; Mar. 26; Sp. p. 4372; Gaz. vol. 176; p. 812.
Sauces, Making table. M. Jinbo and K. Hoshizaki. No. 1,025,402; May 7; Sp. p. 655; Gaz. vol. 178; p. 103.
Sausage-case turner. A. B. Loerke. No. 1,038,912; Sept. 17; Gaz. vol. 182; p. 658.
Sausage-casing. S. May. No. 1,036,290; Aug. 20; Gaz. vol. 181; p. 711.
Sausage-casings, Making. S. May. No. 1,036,291; Aug. 20; Gaz. vol. 181; p. 711.
Sausage-linking machine. J. C. Collins. No. 1,033,154; July 23; Gaz. vol. 180; p. 914.
Sausage-skin and producing it, Artificial. C. H. Hasselblad. No. 1,036,839; Aug. 27; Gaz. vol. 181; p. 930.
Sausage-stuffer. R. O. Bingham. No. 1,036,426; Aug. 20; Gaz. vol. 181; p. 759.
Sausage-stuffing device. H. W. Louden, Sr. No. 1,043,241; Nov. 5; Gaz. vol. 184; p. 69.
Sausage-stuffing machine. H. F. Müller. No. 1,014,605; Jan. 9; Sp. p. 3312; Gaz. vol. 174; p. 550.
Saw. H. B. Nichols. No. 1,021,551; Mar. 26; Sp. p. 5426; Gaz. vol. 176; p. 977.
Saw. C. H. Douglas. No. 1,033,996; July 30; Gaz. vol. 180; p. 1224.
Saw. O. J. Dufault. No. 1,036,810; Aug. 27; Gaz. vol. 181; p. 920.
Saw. C. C. Wood. No. 1,042,633; Oct. 29; Gaz. vol. 183; p. 1132.
Saw. G. Kawasaki. No. 1,046,800; Dec. 10; Gaz. vol. 185; p. 390.
Saw and the like, Cutting-off. G. Gorton. No. 1,047,205; Dec. 17; Gaz. vol. 185; p. 557.
Saw, Band-. M. A. Froney and J. H. Optenberg. No. 1,047,196; Dec. 17; Gaz. vol. 185; p. 553.
Saw-benches, &c., Chain feed mechanism for. H. Atkinson. No. 1,033,295; July 23; Gaz. vol. 180; p. 963.
Saw-carriage. A. J. Meier. No. 1,040,233; Oct. 1; Gaz. vol. 183; p. 187.
Saw-carrying case. B. F. Padrick. No. 1,020,050; Mar. 12; Sp. p. 2218; Gaz. vol. 176; p. 382.
Saw, Chain. B. L. Bailey. No. 1,016,664; Feb. 6; Sp. p. 990; Gaz. vol. 175; p. 150.
Saw-clamp. C. A. Seibert. No. 1,016,963; Feb. 13; Sp. p. 1631; Gaz. vol. 175; p. 286.
Saw-clamp. B. F. Padrick. No. 1,024,743; Apr. 30; Sp. p. 6469; Gaz. vol. 177; p. 1140.
Saw-clamp. A. Peterson. No. 1,028,775; June 4; Sp. p. 1522; Gaz. vol. 179; p. 237.
Saw-clamp. J. S. Dikeman. No. 1,035,166; Aug. 13; Gaz. vol. 181; p. 286.
Saw-clamp. C. H. Spray. No. 1,042,049; Oct. 22; Gaz. vol. 183; p. 904.
Saw-clamp. W. R. Seaton. No. 1,048,898; Dec. 31; Gaz. vol. 185; p. 1208.
Saw-dresser. L. McLean and T. R. Jurin. No. 1,045,052; Nov. 19; Gaz. vol. 184; p. 760.
Saw, Endless chain. T. A. Jackson. No. 1,043,433; Nov. 5; Gaz. vol. 184; p. 138.
Saw-file guide. F. R. Jordan. No. 1,023,428; Apr. 16; Sp. p. 3574; Gaz. vol. 177; p. 635.
Saw-filing device. J. and J. W. Slingsby. No. 1,039,602; Sept. 24; Gaz. vol. 182; p. 911.
Saw-filing gage. J. and C. Bearden. No. 1,029,966; June 18; Sp. p. 4145; Gaz. vol. 179; p. 718.
Saw-filing machine. S. Haltom. No. 1,018,900; Feb. 27; Sp. p. 5911; Gaz. vol. 175; p. 1020.
Saw-filing machine. J. Arnesen. No. 1,021,295; Mar. 26; Sp. p. 4860; Gaz. vol. 176; p. 887.
Saw-filing machine. H. Angell. No. 1,024,387; Apr. 23; Sp. p. 5586; Gaz. vol. 177; p. 980.
Saw-filing machine. W. H. Updegraff. No. 1,036,167; Aug. 20; Gaz. vol. 181; p. 668.
Saw-filing machine. C. A. Ruecker. No. 1,045,442; Nov. 26; Gaz. vol. 184; p. 924.
Saw-filing machine, Band-. H. Hestand and C. F. Dayton. No. 1,038,885; Sept. 17; Gaz. vol. 182; p. 648.
Saw-filing machine, Band-. G. Rhodes. No. 1,046,645; Dec. 10; Gaz. vol. 185; p. 334.
Saw-filing tool, Crosscut-. M. J. Henderson. No. 1,030,176; June 18; Sp. p. 4568; Gaz. vol. 179; p. 790.
Saw forming and sharpening machine. R. B. Dow. No. 1,040,905; Oct. 8; Gaz. vol. 183; p. 448.
Saw-gage. M. Dallenbach. No. 1,019,429; Mar. 5; Sp. p. 984; Gaz. vol. 176; p. 144.
Saw-gage. T. Bemis. No. 1,028,529; June 4; Sp. p. 1021; Gaz. vol. 179; p. 155.
Saw-gage. P. L. Ganyo. No. 1,033,392; July 23; Gaz. vol. 180; p. 995.
Saw-gage. G. Fritz. No. 1,048,403; Dec. 24; Gaz. vol. 185; p. 998.
Saw gage and jointer. J. E. Cormican. No. 1,023,415; Apr. 16; Sp. p. 3549; Gaz. vol. 177; p. 632.
Saw gage, Crosscut-. G. A. Colvin. No. 1,023,550; Apr. 16; Sp. p. 3813; Gaz. vol. 177; p. 673.
Saw-guard. D. S. Ackley. No. 1,037,843; Sept. 10; Gaz. vol. 182; p. 255.
Saw guard, Circular-. R. H. Pogue. No. 1,035,735; Aug. 13; Gaz. vol. 181; p. 481.
Saw-gummer. E. Chainey. No. 1,018,740; Feb. 27; Sp. p. 5583; Gaz. vol. 175; p. 966.
Saw-gummer. E. Smith. No. 1,029,516; June 11; Sp. p. 3133; Gaz. vol. 179; p. 525.
Saw gummer and swager. W. H. Mozingo. No. 1,040,385; Oct. 8; Gaz. vol. 183; p. 269.
Saw-gumming machine. L. Goad, Jr. No. 1,015,731; Jan. 23; Sp. p. 5818; Gaz. vol. 174; p. 992.
Saw-handle. O. O. Barnes. No. 1,033,979; July 30; Gaz. vol. 180; p. 1218.
Saw-handle. A. A. Barnes. No. 1,035,675; Aug. 13; Gaz. vol. 181; p. 461.
Saw-handle, Detachable. H. L. Smith. No. 1,047,714; Dec. 17; Gaz. vol. 185; p. 739.
Saw-holder or the like. E. Dagenais. No. 1,043,405; Nov. 5; Gaz. vol. 184; p. 128.
Saw-horse, Adjustable. W. H. Phillipson. No. 1,044,816; Nov. 19; Gaz. vol. 184; p. 678.
Saw-jointer. G. J. Karle. No. 1,024,007; Apr. 23; Sp. p. 4792; Gaz. vol. 177; p. 851.

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Saw jointer and gage, Combined. H. K. Salmon. No. 1,018,446; Feb. 27; Sp. p. 4899; Gaz. vol. 175; p. 866.
Saw machine, Drag-. C. C. Hall. No. 1,044,647; Nov. 19; Gaz. vol. 184; p. 618.
Saw machine, Rip-. C. Shaw. No. 1,038,215; Sept. 10; Gaz. vol. 182; p. 380.
Saw, Meat-. J. F. Waters. No. 1,033,969; July 30; Gaz. vol. 180; p. 1214.
Saw, Metal-cutting. F. A. Hunter. No. 1,037,146; Aug. 27; Gaz. vol. 181; p. 1032.
Saw, Portable power-operated. M. Goehler. No. 1,041,777; Oct. 22; Gaz. vol. 183; p. 811.
Saw, Power-. F. L. Bradley. No. 1,035,524; Aug. 13; Gaz. vol. 181; p. 411.
Saw, Power-driven meat-. F. F. Wear and R. Morgeneier. No. 1,031,217; July 2; Gaz. vol. 180; p. 131.
Saw, Pruning-. C. M. Leonard. No. 1,028,230; June 4; Sp. p. 375; Gaz. vol. 179; p. 53.
Saw, Pruning-. F. P. Brewer. No. 1,032,987; July 16; Gaz. vol. 180; p. 818.
Saw rounder, Circular-. W. M. Sellers. No. 1,043,470; Nov. 5; Gaz. vol. 184; p. 152.
Saw, Sector-cutting. K. Peterson. No. 1,023,959; Apr. 23; Sp. p. 4702; Gaz. vol. 177; p. 834.
Saw-set. J. Simpson. No. 1,017,475; Feb. 13; Sp. p. 2760; Gaz. vol. 175; p. 465.
Saw-set. J. H. Jennings. No. 1,018,974; Feb. 27; Sp. p. 6082; Gaz. vol. 175; p. 1046.
Saw-set. J. B. Payton. No. 1,019,352; Mar. 5; Sp. p. 797; Gaz. vol. 176; p. 120.
Saw-set. G. A. Morris. No. 1,019,824; Mar. 12; Sp. p. 1747; Gaz. vol. 176; p. 306.
Saw-set. G. C. Price. No. 1,022,871; Apr. 9; Sp. p. 2388; Gaz. vol. 177; p. 408.
Saw-set. W. R. Garrett. No. 1,023,835; Apr. 23; Sp. p. 4415; Gaz. vol. 177; p. 793.
Saw-set. L. G. McKam. No. 1,025,950; May 7; Sp. p. 1881; Gaz. vol. 178; p. 288.
Saw-set. W. L. Hampton. No. 1,029,991; June 18; Sp. p. 4188; Gaz. vol. 179; p. 726.
Saw-set. E. G. Cosby. No. 1,030,976; July 2; Gaz. vol. 180; p. 44.
Saw-set. E. O. Blankenship. No. 1,033,663; July 23; Gaz. vol. 180; p. 1084.
Saw-set. F. A. Drager. No. 1,034,593; Aug. 6; Gaz. vol. 181; p. 63.
Saw-set. C. H. Davenport. No. 1,036,195; Aug. 20; Gaz. vol. 181; p. 678.
Saw-set. A. Ahlden. No. 1,037,711; Sept. 3; Gaz. vol. 182; p. 180.
Saw-set. E. C. Mershon. No. 1,041,321; Oct. 15; Gaz. vol. 183; p. 624.
Saw-set. J. H. Devini. No. 1,047,179; Dec. 17; Gaz. vol. 185; p. 546.
Saw set and swage, Combined. T. N. Wilson. No. 1,041,547; Oct. 15; Gaz. vol. 183; p. 698.
Saw-setting device. A. S. Harris. No. 1,028,088; May 28; Sp. p. 6585; Gaz. vol. 178; p. 1123.
Saw-setting device. S. K. Niemi. No. 1,038,186; Sept. 10; Gaz. vol. 182; p. 371.
Saw-setting machine. C. L. Johnson. No. 1,017,761; Feb. 20; Sp. p. 3333; Gaz. vol. 175; p. 596.
Saw-setting machine. E. Johnson. No. 1,029,614; June 18; Sp. p. 3347; Gaz. vol. 179; p. 596.
Saw-setting tool. M. O. Yerkey. No. 1,045,491; Nov. 26; Gaz. vol. 184; p. 942.
Saw support, Undercutting-. J. B. Perry. No. 1,016,090; Jan. 30; Sp. p. 6597; Gaz. vol. 174; p. 1146.
Saw-swage. J. F. Pribnow. No. 1,016,091; Jan. 30; Sp. p. 6598; Gaz. vol. 174; p. 1146.
Saw-swage. A. E. White. No. 1,021,284; Mar. 26; Sp. p. 4840; Gaz. vol. 176; p. 883.
Saw-swage. A. J. Beduhn. No. 1,040,997; Oct. 15; Gaz. vol. 183; p. 514.
Saw-swage. E. C. Filstrup. No. 1,043,817; Nov. 12; Gaz. vol. 184; p. 302.
Saw-swage. A. E. Proctor. No. 1,045,078; Nov. 19; Gaz. vol. 184; p. 769.
Saw-table gage. W. S. Williams. No. 1,017,632; Feb. 13; Sp. p. 3056; Gaz. vol. 175; p. 515.
Saw-table guide. G. L. Knights. No. 1,048,319; Dec. 24; Gaz. vol. 185; p. 970.
Saw tension device, Band-. G. A. Ensign. No. 1,038,328; Sept. 10; Gaz. vol. 182; p. 419.
Saw tension device for band-saw mills. A. H. Irving. No. 1,037,916; Sept. 10; Gaz. vol. 182; p. 281.
Saw-tool. A. B. Brown. No. 1,020,257; Mar. 12; Sp. p. 2660; Gaz. vol. 176; p. 451.
Saw-tool. R. H. Sullivan. No. 1,023,341; Apr. 16; Sp. p. 3406; Gaz. vol. 177; p. 608.
Saw-tooth. W. Vollmer and A. K. Andrews. No. 1,027,943; May 28; Sp. p. 6268; Gaz. vol. 178; p. 1077.
Saw-tooth-centering indicator. J. E. Hibbert and C. L. Huntley. No. 1,044,784; Nov. 19; Gaz. vol. 184; p. 669.
Saw-tooth, Detachable. A. Krieger. No. 1,048,181; Dec. 24; Gaz. vol. 185; p. 924.
Saw-tooth, Detachable. A. Krieger. No. 1,048,182; Dec. 24; Gaz. vol. 185; p. 925.
Saw-tooth for metal-cutting saws, Removable. J. F. Conklin. No. 1,046,737; Dec. 10; Gaz. vol. 185; p. 367.
Saw-tooth, Insertible. F. C. Oldham. No. 1,017,013; Feb. 13; Sp. p. 1738; Gaz. vol. 175; p. 303.
Saw-tooth-leveling tool. E. Eastlund and J. A. Johnson. No. 1,028,448; June 4; Sp. p. 854; Gaz. vol. 179; p. 128.
Saw, Vertical friction-. H. A. Fergusson. No. 1,028,103; June 4; Sp. p. 23; Gaz. vol. 179; p. 7.
Saws or similar machines, Automatic recording apparatus for long. G. E. Johanson. No. 1,038,380; Sept. 10; Gaz. vol. 182; p. 436.
Saws, Spring-block set for. E. Godin. No. 1,040,928; Oct. 8; Gaz. vol. 183; p. 456.
Sawdust-conveyer for circular saws. W. T. Gray and E. S. Haskin. No. 1,014,872; Jan. 16; Sp. p. 3984; Gaz. vol. 174; p. 674.
Sawdust or disinfecting-powders, with a tiltable dust-bin and an automatic closing device for the cover, Apparatus for instantaneous distribution of. S. Danielli. No. 1,018,410; Feb. 27; Sp. p. 4828; Gaz. vol. 175; p. 854.
Sawing and jointing machine, Combined shingle. P. O'Connor. No. 1,013,431; Jan. 2; Sp. p. 751; Gaz. vol. 174; p. 119.
Sawing and trimming machine with router and jig-saw attachment. H. G. Miller. No. 1,030,598; June 25; Sp. p. 5651; Gaz. vol. 179; p. 979.
Sawing-machine. R. H. Martens. No. 1,014,500; Jan. 9; Sp. p. 3098; Gaz. vol. 174; p. 515.
Sawing-machine. M. Hutchinson. No. 1,014,708; Jan. 16; Sp. p. 3599; Gaz. vol. 174; p. 616.
Sawing-machine. T. F. Morrissey. No. 1,019,720; Mar. 5; Sp. p. 1543; Gaz. vol. 176; p. 240.
Sawing-machine. E. S. Haines. No. 1,023,079; Apr. 9; Sp. p. 2817; Gaz. vol. 177; p. 480.
Sawing-machine. S. Koons. No. 1,043,775; Nov. 5; Gaz. vol. 184; p. 255.
Sawing-machine, Band. L. J. Hanhart. No. 1,037,900; Sept. 10; Gaz. vol. 182; p. 276.
Sawing machine, Cold-. C. A. Hirth. No. 1,047,522; Dec. 17; Gaz. vol. 185; p. 670.
Sawing-machine, Drag. W. S. Hahn. No. 1,015,175; Jan. 16; Sp. p. 4597; Gaz. vol. 174; p. 775.
Sawing-machine for cylinder packing-rings. C. L. Dickert. No. 1,032,277; July 9; Gaz. vol. 180; p. 535.
Sawing machine, Wood-. A. M. Zimmerman. No. 1,021,813; Apr. 2; Sp. p. 117; Gaz. vol. 177; p. 23.
Sawing machine, Wood-. G. H. Brown. No. 1,023,296; Apr. 16; Sp. p. 3315; Gaz. vol. 177; p. 593.
Sawing machine, Wood-. L. Wolfe. No. 1,025,773; May 7; Sp. p. 1459; Gaz. vol. 178; p. 230.
Sawing machine, Wood-. E. Graham. No. 1,030,885; July 2; Gaz. vol. 180; p. 12.
Sawing-machines, Board-support for. J. M. Reed. No 1,037,835; Sept. 3; Gaz. vol. 182; p. 219.
Sawing, Means for placing timber in position for. A. J. Tenow and C. E. Andersson. No. 1,043,169; Nov. 5; Gaz. vol. 184; p. 44.
Sawmill. C. E. Cleveland. No. 1,040,622; Oct. 8; Gaz. vol. 183; p. 353.
Sawmill-carriage. G. Lemieux. No. 1,038,609; Sept. 17; Gaz. vol. 182; p. 551.
Sawmill-carriage tester. A. D. Plowden. No. 1,014,847; Jan. 16; Sp. p. 3924; Gaz. vol. 174; p. 665.
Sawmill-dog. A. A. De Loach. No. 1,028,863; June 11; Sp. p. 1715; Gaz. vol. 179; p. 301.
Sawmill-knee-adjusting mechanism. A. J. Farrell. No. 1,036,986; Aug. 27; Gaz. vol. 181; p. 979.
Sawmill set-works. P. Michel, Fils. No. 1,016,759; Feb. 6; Sp. p. 1176; Gaz. vol. 175; p. 181.
Sawmill set works. L. J. Hanhart. No. 1,024,775; Apr. 30; Sp. p. 6544; Gaz. vol. 177; p. 1152.
Sawmill set-works. G. M. Pelton. No. 1,043,355; Nov. 5; Gaz. vol. 184; p. 111.
Sawmill setting and receding mechanism. D. C. Prescott. No. 1,038,788; Sept. 17; Gaz. vol. 182; p. 614.
Sawmills, Attachment for logways in. E. Peterson. No. 1,023,592; Apr. 16; Sp. p. 3911; Gaz. vol. 177; p. 688.
Sawyer's clamp. F. C. Preus. No. 1,029,222; June 11; Sp. p. 2496; Gaz. vol. 179; p. 424.
Scaffold. W. C. Gaw. No. 1,018,043; Feb. 20; Sp. p. 4022; Gaz. vol. 175; p. 696.
Scaffold. H. B. Fuller. No. 1,018,658; Feb. 27; Sp. p. 5414; Gaz. vol. 175; p. 938.
Scaffold. W. C. Fritz. No. 1,033,389; July 23; Gaz. vol. 180; p. 994.
Scaffold. O. Schwerin. No. 1,038,211; Sept. 10; Gaz. vol. 182; p. 378.
Scaffold. A. F. Walther. No. 1,044,955; Nov. 19; Gaz. vol. 184; p. 726.
Scaffold, Adjustable. D. J. Muns. No. 1,017,686; Feb. 20; Sp. p. 3168; Gaz. vol. 175; p. 570.
Scaffold, Adjustable. G. Johnson. No. 1,035,595; Aug. 13; Gaz. vol. 181; p. 434.
Scaffold-bracket. W. A. Schoening. No. 1,025,886; May 7; Sp. p. 1742; Gaz. vol. 178; p. 269.
Scaffold-bracket. T. A. Wilkerson. No. 1,036,945; Aug. 27; Gaz. vol. 181; p. 964.
Scaffold, Builder's. O. Knoerzer. No. 1,020,358; Mar. 12; Sp. p. 2850; Gaz. vol. 176; p. 483.
Scaffold device. C. Nelsen. No. 1,048,726; Dec. 31; Gaz. vol. 185; p. 1148.

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Scaffold, Hanging. C. M. Haynes. No. 1,031,646; July 2; Gaz. vol. 180; p. 276.
Scaffold, Portable. T. V. L. Boilot. No. 1,042,192; Oct. 22; Gaz. vol. 183; p. 951.
Scaffold, Portable. W. H. Trew. No. 1,043,172; Nov. 5; Gaz. vol. 184; p. 46.
Scaffold-support. E. M. and D. F. Cavanagh. No. 1,030,643; June 25; Sp. p. 5815; Gaz. vol. 179; p. 997.
Scaffold-supporting means. E. H. Henderson. No. 1,035,702; Aug. 13; Gaz. vol. 181; p. 470.
Scaffold-supporting mechanism. E. H. Henderson. No. 1,035,703; Aug. 13; Gaz. vol. 181; p. 470.
Scaffold-supporting mechanism. E. H. Henderson. No. 1,038,579; Sept. 17; Gaz. vol. 182; p. 540.
Scaffolding-bracket. H. E. Loebel. No. 1,016,163; Jan. 30; Sp. p. 6724; Gaz. vol. 174; p. 1168.
Scaffolding-support, Combination. T. H. Kingston. No. 1,033,252; July 23; Gaz. vol. 180; p. 948.
Scalding apparatus. E. I. Landers. No. 1,039,300; Sept. 24; Gaz. vol. 182; p. 807.
Scale. F. H. Buckingham. No. 1,013,272; Jan. 2; Sp. p. 398; Gaz. vol. 174; p. 64.
Scale. A. De Vilbiss, Jr. No. 1,013,590; Jan. 2; Sp. p. 1071; Gaz. vol. 174; p. 173.
Scale. V. O. Klingler. No. 1,015,190; Jan. 16; Sp. p. 4630; Gaz. vol. 174; p. 780.
Scale. W. H. Sabin and H. Larson. No. 1,017,596; Feb. 13; Sp. p. 2982; Gaz. vol. 175; p. 504.
Scale. F. P. Dunn. No. 1,017,656; Feb. 20; Sp. p. 3105; Gaz. vol. 175; p. 561.
Scale. F. P. Dunn. No. 1,018,173; Feb. 20; Sp. p. 4319; Gaz. vol. 175; p. 741.
Scale. F. P. Dunn. No. 1,018,813; Feb. 27; Sp. p. 5745; Gaz. vol. 175; p. 991.
Scale. J. Foerst. No. 1,019,447; Mar. 5; Sp. p. 1021; Gaz. vol. 176; p. 150.
Scale. A. Ruch. No. 1,022,264; Apr. 2; Sp. p. 1077; Gaz. vol. 177; p. 172.
Scale. N. Nilson. No. 1,022,376; Apr. 2; Sp. p. 1297; Gaz. vol. 177; p. 209.
Scale. W. D. Nash. No. 1,024,352; Apr. 23; Sp. p. 5530; Gaz. vol. 177; p. 969.
Scale. E. J. La Due. No. 1,025,145; May 7; Sp. p. 71; Gaz. vol. 178; p. 13.
Scale. F. S. Hebden. No. 1,034,013; July 30; Gaz. vol. 180; p. 1231.
Scale. F. Chatfield. No. 1,034,202; July 30; Gaz. vol. 180; p. 1295.
Scale. W. F. Stimpson. No. 1,041,369; Oct. 15; Gaz. vol. 183; p. 640.
Scale. F. H. Felt. No. 1,046,063; Dec. 3; Gaz. vol. 185; p. 91.
Scale. C. M. Sturgis. No. 1,046,896; Dec. 10; Gaz. vol. 185; p. 421.
Scale. B. W. King. No. 1,047,952; Dec. 24; Gaz. vol. 185; p. 848.
Scale, Adjustable dial-. H. D. Flegel. No. 1,028,700; June 4; Sp. p. 1351; Gaz. vol. 179; p. 211.
Scale and writing instrument, Combined. W. F. Nicholas. No. 1,025,586; May 7; Sp. p. 1078; Gaz. vol. 178; p. 167.
Scale attachment for supporting wagon-beds. C. E. Burnett. No. 1,017,244; Feb. 13; Sp. p. 2263; Gaz. vol. 175; p. 385.
Scale attachment for vehicles. J. H. Levillain. No. 1,024,639; Apr. 30; Sp. p. 6265; Gaz. vol. 177; p. 1103.
Scale, Automatic. F. H. Headen. No. 1,032,209; July 9; Gaz. vol. 180; p. 511.
Scale, Automatic computing and weighing. J. H. Ohnsman. No. 1,040,000; Oct. 1; Gaz. vol. 183; p. 109.
Scale, Automatic weighing-. A Gauvin. No. 1,029,602; June 18; Sp. p. 3323; Gaz. vol. 179; p. 591.
Scale, Automatic weighing-. H. R. Standefer. No. 1,046,885; Dec. 10; Gaz. vol. 185; p. 417.
Scale, Automatic weighing and recording mining-car. G. Goetz. No. 1,017,747; Feb. 20; Sp. p. 3306; Gaz. vol. 175; p. 592.
Scale-balancing device. C. A Vidinghoff. No. 1,018,456; Feb. 27; Sp. p. 4920; Gaz. vol. 175; p. 869.
Scale, Beam-. C. D. Bishop. No. 1,036,787; Aug. 27; Gaz. vol. 181; p. 912.
Scale, Calculating-. R. C. Smith. No. 1,014,344; Jan. 9; Sp. p. 2804; Gaz. vol. 174; p. 464.
Scale, Computing-. R. B. Larrabee. No. 1,022,030; Apr. 2; Sp. p. 593; Gaz. vol. 177; p. 94.
Scale, Computing-. A. F. Johnson. No. 1,026,266; May 14; Sp. p. 2590; Gaz. vol. 178; p. 434.
Scale, Computing-. C. F. Christopher. No. 1,042,321; Oct. 22; Gaz. vol. 183; p. 993.
Scale, Counter-. G. Walker. No. 1,048,242; Dec. 24; Gaz. vol. 185; p. 942.
Scale, Fabric-. M. Münzner. No. 1,031,954; July 9; Gaz. vol. 180; p. 426.
Scale for refrigerators, Weighing-. W. F. Bailey. No. 1,031,161; July 2; Gaz. vol. 180; p. 111.
Scale for weighing and recording weights of cars. G. Goetz. No. 1,032,667; July 16; Gaz. vol. 180; p. 712.
Scale, Pendulum computing-. H. S. Hallwood. No. 1,041,997; Oct. 22; Gaz. vol. 183; p. 887.
Scale, Platform weighing-. W. C. Kline. No. 1,017,154; Feb. 13; Sp. p. 2060; Gaz. vol. 175; p. 354.
Scale-rack. G. W. Johnson. No. 1,034,622; Aug. 6; Gaz. vol. 181; p. 73.
Scale, Railway track-. A. J. Jones. No. 1,019,478; Mar. 5; Sp. p. 1082; Gaz. vol. 176; p. 160.
Scale, Raising beam-. H. Schneider. No. 1,029,949; June 18; Sp. p. 4107; Gaz. vol. 179; p. 713.
Scale, Rapid-weighing. N. B. Converse. No. 1,029,170; June 11; Sp. p. 2387; Gaz. vol. 179; p. 407.
Scale-recording device. M. H. Winslow. No. 1,037,701; Sept. 3; Gaz. vol. 182; p. 176.
Scale, Registering-. W. H. Muzzy. No. 1,047,685; Dec. 17; Gaz. vol. 185; p. 729.
Scale, Removing. F. E. Coombs. No. 1,049,054; Dec. 31; Gaz. vol. 185; p. 1263.
Scale, Sack-. C. Nagel. No. 1,045,062; Nov. 19; Gaz. vol. 184; p. 764.
Scale-scoop. F. H. Martin. No. 1,029,138; June 11; Sp. p. 2321; Gaz. vol. 179; p. 396.
Scale, Spring-. G. Walker. No. 1,041,208; Oct. 15; Gaz. vol. 183; p. 585.
Scale stock-rack, Adjustable-. C. W. Worthington. No. 1,047,725; Dec. 17; Gaz. vol. 185; p. 742.
Scale, Tape-line spring-. E. H. Miller. No. 1,014,839; Jan. 16; Sp. p. 3908; Gaz. vol. 174; p. 662.
Scale-tester. S. M. Boling. No. 1,013,732; Jan. 2; Sp. p. 1417; Gaz. vol. 174; p. 223.
Scale, Total-adding weighing-. W. B. Moon. No. 1,040,380; Oct. 8; Gaz. vol. 183; p. 267.
Scale, Track-. W. Dalton. No. 1,028,194; June 4; Sp. p. 306; Gaz. vol. 179; p. 40.
Scale, Weighing-. R. W. Elliott and J. Jorgenson. No. 1,013,479; Jan. 2; Sp. p. 849; Gaz. vol. 174; p. 136.
Scale, Weighing-. W. N. Pelouze. No. 1,019,698; Mar. 5; Sp. p. 1498; Gaz. vol. 176; p. 232.
Scale, Weighing-. J. E. Cochran. No. 1,020,744; Mar. 19; Sp. p. 3713; Gaz. vol. 176; p. 651.
Scale, Weighing-. H. M. B. Bary. No. 1,023,495; Apr. 16; Sp. p. 3709; Gaz. vol. 177; p. 656.
Scale, Weighing-. H. M. B. Bary. No. 1,023,496; Apr. 16; Sp. p. 3712; Gaz. vol. 177; p. 657.
Scale, Weighing-. A. De Vilbiss, Jr. No. 1,028,552; June 4; Sp. p. 1064; Gaz. vol. 179; p. 162.
Scale, Weighing-. L. C. Wetzel. No. 1,030,362; June 25; Sp. p. 5021; Gaz. vol. 179; p. 896.
Scale, Weighing-. B. D. Emanuel. No. 1,030,879; July 2; Gaz. vol. 180; p. 11.
Scale, Weighing-. B. D. Emanuel. No. 1,031,699; July 9; Gaz. vol. 180; p. 337.
Scale, Weighing-. W. G. Templeton. No. 1,032,439; July 16; Gaz. vol. 180; p. 633.
Scale, Weighing-. O. M. Rice. No. 1,033,734; July 23; Gaz. vol. 180; p. 1105.
Scales, Chart for computing-. A. W. Loshbough. No. 1,028,946; June 11; Sp. p. 1908; Gaz. vol. 179; p. 330.
Scales, Coin-controlled mechanism for beam-. J. Paupa and G. F. Hochriem. No. 1,043,352; Nov. 5; Gaz. vol. 184; p. 110.
Scales, Dial and pointer for price-computing. J. T. Maguire. No. 1,042,360; Oct. 22; Gaz. vol. 183; p. 1006.
Scales, Fulcrum for. A. H. Emery. No. 1,041,609; Oct. 15; Gaz. vol. 183; p. 716.
Scales, Integrator for conveyer-belt weighing-. W. P. Buchan. No. 1,032,183; July 9; Gaz. vol. 180; p. 501.
Scales or the like, Fixture for computing-. H. A. Hanze. No. 1,047,214; Dec. 17; Gaz. vol. 185; p. 560.
Scaling device. G. F. Lehberger and E. Vaughan. No. 1,019,497; Mar. 5; Sp. p. 1138; Gaz. vol. 176; p. 167.
Scalloping-machine. P. Heldmann. No. 1,039,534; Sept. 24; Gaz. vol. 182; p. 887.
Scarf. T. Ziock. No. 1,027,580; May 28; Sp. p. 5472; Gaz. vol. 178; p. 957.
Scarf-holder. A. Wiegel. No. 1,028,311; June 4; Sp. p. 539; Gaz. vol. 179; p. 79.
Scarf-pin. W. F. Larson. No. 1,046,812; Dec. 10; Gaz. vol. 185; p. 394.
Scarf-pin guard. R. W. Hardie. No. 1,015,265; Jan. 16; Sp. p. 4791; Gaz. vol. 174; p. 806.
Scarf-pin guard. R. W. Hardie. No. 1,015,266; Jan. 16; Sp. p. 4792; Gaz. vol. 174; p. 806.
Scarf-pin guard. R. W. Hardie. No. 1,039,936; Oct. 1; Gaz. vol. 183; p. 88.
Scarf-pin retainer. R. Corn. No. 1,027,525; May 28; Sp. p. 5347; Gaz. vol. 178; p. 937.
Scarifier. W. A. Gillette. No. 1,037,755; Sept. 3; Gaz. vol. 182; p. 193.
Scenic apparatus. J. Dove. No. 1,036,586; Aug. 27; Gaz. vol. 181; p. 846.
Scissors. A. Hopkins. No. 1,017,545; Feb. 13; Sp. p. 2890; Gaz. vol. 175; p. 488.
Scissors. W. H. and V. E. Spence. No. 1,024,655; Apr. 30; Sp. p. 6292; Gaz. vol. 177; p. 1108.
Scissors. J. S. Diehl. No. 1,047,002; Dec. 10; Gaz. vol. 185; p. 454.
Scissors, Buttonhole-. J. J. Alvord and F. Karsitz. No. 1,034,947; Aug. 6; Gaz. vol. 181; p. 183.
Scoop. S. V. Morrill. No. 1,039,574; Sept. 24; Gaz. vol. 182; p. 902.
Scoop, Automatic weighing-. H. Ault and C. Switalski. No. 1,016,246; Feb. 6; Sp. p. 3; Gaz. vol. 175; p. 3.
Scoop-box, Lock. A. L. Smith. No. 1,037,347; Sept. 3; Gaz. vol. 182; p. 56.

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Scoop, Self-weighing. J. W. Monmonier and J. H. Morehead. No. 1,034,486; Aug. 6; Gaz. vol. 181; p. 28.
Scoop, Tender-. S. Bennis and J. G. Keppel. No. 1,016,731; Feb. 6; Sp. p. 1121; Gaz. vol. 175; p. 172.
Scoop washing-cylinders, Machine for making. W. Bartholomew. No. 1,038,714; Sept. 17; Gaz. vol. 182; p. 588.
Scoop, Wheel-. M. L. McCrary. No. 1,015,969; Jan. 30; Sp. p. 6327; Gaz. vol. 174; p. 1101.
Scooping device. D. H. Roller. No. 1,016,711; Feb. 6; Sp. p. 1079; Gaz. vol. 175; p. 166.
Score-board. J. A. Groves. No. 1,038,875; Sept. 17; Gaz. vol. 182; p. 644.
Score-card. E. L. De Forest. No. 1,026,433; May 14; Sp. p. 2966; Gaz. vol. 178; p. 491.
Scoring-machine. J. G. Jones. No. 1,033,411; July 23; Gaz. vol. 180; p. 1001.
Scoring-machine. J. W. Denmead. No. 1,033,881; July 30; Gaz. vol. 180; p. 1183.
Scoring-machine. E. H. Taylor. No. 1,038,232; Sept. 10; Gaz. vol. 182; p. 386.
Scouring-machine. M. L. Barbeau. No. 1,013,526; Jan. 2; Sp. p. 951; Gaz. vol. 174; p. 153.
Scouring-machine. C. H. Scott. No. 1,044,924; Nov. 19; Gaz. vol. 184; p. 716.
Scouring-machine heel-rest. F. L. Ellison. No. 1,042,773; Oct. 29; Gaz. vol. 183; p. 1180.
Scow for transporting gravel. G. W. Jackson. No. 1,047,233; Dec. 17; Gaz. vol. 185; p. 567.
Scow for transporting gravel. T. C. Jackson. No. 1,047,234; Dec. 17; Gaz. vol. 185; p. 568.
Scow for transporting gravel, &c. T. C. Jackson. No. 1,018,565; Feb. 27; Sp. p. 5224; Gaz. vol. 175; p. 908.
Scow for transporting gravel, &c. T. C. Jackson. No. 1,018,566; Feb. 27; Sp. p. 5227; Gaz. vol. 175; p. 908.
Scow, Invertible. W. E. Cook and D. H. Haywood. No. 1,015,755; Jan. 23; Sp. p. 5867; Gaz. vol. 174; p. 1000.
Scrap-bundling machine. C. W. Bennett. No. 1,023,799; Apr. 23; Sp. p. 4300; Gaz. vol. 177; p. 780.
Scraper. F. J. Vlchek. No. 1,015,461; Jan. 23; Sp. p. 5251; Gaz. vol. 174; p. 900.
Scraper. L. Pettit. No. 1,018,518; Feb. 27; Sp. p. 5109; Gaz. vol. 175; p. 891.
Scraper. G. M. Baker. No. 1,019,294; Mar. 5; Sp. p. 643; Gaz. vol. 176; p. 101.
Scraper. J. W. Champion. No. 1,027,592; May 28; Sp. p. 5488; Gaz. vol. 178; p. 960.
Scraper. A. C. Banke. No. 1,044,473; Nov. 19; Gaz. vol. 184; p. 558.
Scraper, Adjustable. N. D. McCollum. No. 1,032,291; July 9; Gaz. vol. 180; p. 539.
Scraper and grader, Road. S. E. Hughes. No. 1,019,153; Mar. 5; Sp. p. 327; Gaz. vol. 176; p. 51.
Scraper and leveler. R. H. O'Neill. No. 1,016,228; Jan. 30; Sp. p. 6846; Gaz. vol. 174; p. 1189.
Scraper attachment. G. E. Tucker. No. 1,040,816; Oct. 8; Gaz. vol. 183; p. 420.
Scraper attachment. L. L. Parr. No. 1,047,439; Dec. 17; Gaz. vol. 185; p. 640.
Scraper, Excavating-. C. H. Dishman. No. 1,023,303; Apr. 16; Sp. p. 3331; Gaz. vol. 177; p. 595.
Scraper, Foot-. H. Jones. No. 1,022,950; Apr. 9; Sp. p. 2566; Gaz. vol. 177; p. 436.
Scraper, Foot-. G. E. Holmes. No. 1,037,252; Sept. 3; Gaz. vol. 182; p. 26.
Scraper, hoe, and rake, Combined. F. Ferwerda. No. 1,043,758; Nov. 5; Gaz. vol. 184; p. 250.
Scraper or grader, Surface. L. M. Linder. No. 1,023,210; Apr. 16; Sp. p. 3150; Gaz. vol. 177; p. 564.
Scraper, Pot-. L. C. Meyer. No. 1,018,844; Feb. 27; Sp. p. 5799; Gaz. vol. 175; p. 1001.
Scraper, Road-. E. W. Chinn and J. T. Harris. No. 1,023,068; Apr. 9; Sp. p. 2798; Gaz. vol. 177; p. 476.
Scraper, Road-. J. M. Elliott. No. 1,031,919; July 9; Gaz. vol. 180; p. 414.
Scraper, Road-. J. F. T. Berger. No. 1,037,194; Sept. 3; Gaz. vol. 182; p. 6.
Scraper, Road-. W. Voland. No. 1,037,375; Sept. 3; Gaz. vol. 182; p. 66.
Scraper, Road-. E. R. Kerr. No. 1,042,450; Oct. 29; Gaz. vol. 183; p. 1067.
Scraper, Road-. J. W. Wallis. No. 1,048,243; Dec. 24; Gaz. vol. 185; p. 943.
Scraper, Wheeled. J. Baron. No. 1,018,954; Feb. 27; Sp. p. 6023; Gaz. vol. 175; p. 1039.
Scraper, Wheeled. W. M. Gentle and J. K. Cooper. No. 1,021,517; Mar. 26; Sp. p. 5367; Gaz. vol. 176; p. 966.
Scraper, Wheeled. G. M. Wallace. No. 1,022,804; Apr. 9; Sp. p. 2258; Gaz. vol. 177; p. 386.
Scrapers, Haul-back carriage for reciprocating. T. G. Kelly. No. 1,031,342; July 2; Gaz. vol. 180; p. 174.
Scrapers, Wheel attachment for drag-. S. Blodgett. No. 1,045,367; Nov. 26; Gaz. vol. 184; p. 898.
Scraping device for cans and the like. A. V. Harrison. No. 1,017,753; Feb. 20; Sp. p. 3318; Gaz. vol. 175; p. 594.
Scraping-tool. G. Zuzuly. No. 1,014,798; Jan. 16; Sp. p. 3805; Gaz. vol. 174; p. 647.
Screen: *See* Canopy-screen; Car-screen; Car-window screen; Centrifugal screen; Dry-pan screen; Fender-screen; Fire-screen; Fish-screen; Flat screen; Fly-screen; Insect-screen; Metallic screen; Ore-screen; Pulp-screen; Pulverizer-screen; Revolving screen; Rolling screen; Rotary screen; Unitary screen; Well-screen; Window-screen; Window or door screen; Wire-cloth screen.
Screen. N. Brandt. No. 1,013,118; Jan. 2; Sp. p. 53; Gaz. vol. 174; p. 11.
Screen. L. S. Couplin. No. 1,014,570; Jan. 9; Sp. p. 3228; Gaz. vol. 174; p. 537.
Screen. G. H. Davis. No. 1,018,099; Feb. 20; Sp. p. 4162; Gaz. vol. 175; p. 716.
Screen. R. D. Stacey. No. 1,031,482; July 2; Gaz. vol. 180; p. 221.
Screen. H. S. Bayles. No. 1,035,519; Aug. 13; Gaz. vol. 181; p. 409.
Screen. A. L. M. Thompson. No. 1,040,813; Oct. 8; Gaz. vol. 183; p. 419.
Screen. J. J. Robinson. No. 1,043,253; Nov. 5; Gaz. vol. 184; p. 73.
Screen. J. V. W. Reynders. No. 1,048,882; Dec. 31; Gaz. vol. 185; p. 1203.
Screen. J. V. W. Reynders. No. 1,048,883; Dec. 31; Gaz. vol. 185; p. 1203.
Screen and sash hanger. M. C. Palmer. No. 1,019,912; Mar. 12; Sp. p. 1944; Gaz. vol. 176; 337.
Screen and screen fabric. W. E. Harbottle. No. 1,027,476; May 28; Sp. p. 5247; Gaz. vol. 178; p. 920.
Screen and window frames, doors, &c., Clamp for use in the production of. R. McKnight. No. 1,028,584; June 4; Sp. p 1137; Gaz. vol. 179; p. 173.
Screen device, Window-. C. J. Carlson. No. 1,032,110; July 9; Gaz. vol. 180; p. 476.
Screen-doors, Fly-shield for. B. O. Hank. No. 1,031,548; July 2; Gaz. vol. 180; p. 243.
Screen for screening or sifting sand, gravel, stone, &c. E. New. No. 1,025,290; May 7; Sp. p. 394; Gaz. vol. 178; p. 65.
Screen-frame bracket, Corner-guiding. C. J. Brown. No. 1,036,439; Aug. 20; Gaz. vol. 181; p. 762.
Screen-hanger. C. F. Courson. No. 1,045,525; Nov. 26; Gaz. vol. 184; p. 956.
Screen insect-escape. J. R. Kunzelman. No. 1,020,830; Mar. 19; Sp. p. 3890; Gaz. vol. 176; p. 680.
Screen or separator. J. C. Clark. No. 1,049,052; Dec. 31; Gaz. vol. 185; p. 1262.
Screens and the like, Adjustable metallic frame for. C. A. Henry. No. 1,038,367; Sept. 10; Gaz. vol. 182; p. 431.
Screens, Insect-exit eyelet for. H. B. Wilson. No. 1,049,022; Dec. 31; Gaz. vol. 185; p. 1252.
Screens. Trap attachment for fly-. S. D. Clark. No. 1,037,727; Sept. 3; Gaz. vol. 182; p. 184.
Screening-apparatus distributer. R. W. Dull. No. 1,037,221; Sept. 3; Gaz. vol. 182; p. 15.
Screening device. O. R. Smith. No. 1,033,628; July 23; Gaz. vol. 180; p. 1072.
Screening-machine. T. M. Devine. No. 1,031,427; July 2; Gaz. vol. 180; p. 202.
Screening mechanism. J. Donges. No. 1,025,791; May 7; Sp. p. 1496; Gaz. vol. 178; p. 236.
Screening or separating machine. J. J. Green. No. 1,019,041; Mar. 5; Sp. p. 64; Gaz. vol. 176; p. 13.
Screening or separating machine. T. L. and T. J. Sturtevant. No. 1,035,262; Aug. 13; Gaz. vol. 181; p. 319.
Screening or washing fibrous material, &c., Apparatus for. B. Granville. No. 1,029,990; June 18; Sp. p. 4187; Gaz. vol. 179; p. 726.
Screw, Bench-. A. N. Sorenson. No. 1,020,322; Mar. 12; Sp. p. 2782; Gaz. vol. 176; p. 471.
Screw bolts and nuts, Locking device for. E. A. Ploncard. No. 1,015,763; Jan. 23; Sp. p. 5889; Gaz. vol. 174; p. 1004.
Screw, Box-. H. G. Collins. No. 1,036,570; Aug. 27; Gaz. vol. 181; p. 841.
Screw-clamp, Hand. H. Geisenhöner. No. 1,034,357; July 30; Gaz. vol. 180; p. 1350.
Screw-cutter. C. B. Burns. No. 1,027,985; May 28; Sp. p. 6357; Gaz. vol. 178; p. 1091.
Screw-cutting die. P. B. Oatman. No. 1,045,597; Nov. 26; Gaz. vol. 184; p. 979.
Screw-cutting die. P. B. Oatman. No. 1,045,598; Nov. 26; Gaz. vol. 184; p. 980.
Screw delivering and operating machine. A. C. La May. No. 1,031,348; July 2; Gaz. vol. 180; p. 176.
Screw-driver. A. R. Seelig. No. 1,014,417; Jan. 9; Sp. p. 2951; Gaz. vol. 174; p. 490.
Screw-driver. M. D. Gee and J. A. Fields. No. 1,015,555; Jan. 23; Sp. p. 5433; Gaz. vol. 174; p. 931.
Screw-driver. R. B. Benjamin. No. 1,017,035; Feb. 13; Sp. p. 1785; Gaz. vol. 175; p. 311.
Screw-driver. W. C. Gordon. No. 1,020,141; Mar. 12; Sp. p. 2413; Gaz. vol. 176; p. 412.
Screw-driver. I. L. Messenger. No. 1,027,877; May 28; Sp. p. 6142; Gaz. vol. 178; p. 1054.
Screw-driver. B. B. Chase and E. Van Sickle. No. 1,028,675; June 4; Sp. p. 1314; Gaz. vol. 179; p. 202.

Alphabetical list of inventions—Continued.

Screw-driver. F. A. Tibbals. No. 1,036,379; Aug. 20; Gaz. vol. 181; p. 743.
Screw-driver. H. G. Ingram. No. 1,039,751; Oct. 1; Gaz. vol. 183; p. 27.
Screw-driver. G. B. Mullen. No. 1,047,684; Dec. 17; Gaz. vol. 185; p. 729.
Screw-driver and drill, Spiral. T. J. Fegley. No. 1,022,311; Apr. 2; Sp. p. 1160; Gaz. vol. 177; p. 186.
Screw-drivers, Screw-holder for. D. H. Royer. No. 1,047,992; Dec. 24; Gaz. vol. 185; p. 860.
Screw-driving machine. A. Raiche. No. 1,047,986; Dec. 24; Gaz. vol. 185; p. 858.
Screw-driving machines, Adjustable table for automatic. W. P. Hunt. No. 1,017,098; Feb. 13; Sp. p. 1945; Gaz. vol. 175; p. 334.
Screw, Expansive. H. P. Reston. No. 1,033,120; July 23; Gaz. vol. 180; p. 902.
Screw guard, Set-. S. S. Cook. No. 1,028,546; June 4; Sp. p. 1048; Gaz. vol. 179; p. 160.
Screw guard, Set-. O. P. Chubbock. No. 1,038,085; Sept. 10; Gaz. vol. 182; p. 338.
Screw-head-slitting device. F. Levin. No. 1,035,612; Aug. 13; Gaz. vol. 181; p. 440.
Screw inserter and remover. J. Lee. No. 1,013,500; Jan. 2; Sp. p. 898; Gaz. vol. 174; p. 143.
Screw inserter and remover. J. Lee. No. 1,022,427; Apr. 9; Sp. p. 1434; Gaz. vol. 177; p. 257.
Screw-joint coupling for supply-pipes, Adjustable. P. Mueller and A. C. Schuermann. No. 1,036,684; Aug. 27; Gaz. vol. 181; p. 878.
Screw-machine. G. T. Warwick. No. 1,044,429; Nov. 12; Gaz. vol. 184; p. 513.
Screw-machine, Multiple-spindle. C. M. Spencer. No. 1,044,701; Nov. 19; Gaz. vol. 184; p. 639.
Screw-machine tool-carrier. O. A. Smith. No. 1,033,835; July 30; Gaz. vol. 180; p. 1167.
Screw-plate. H. P. Madison. No. 1,040,365; Oct. 8; Gaz. vol. 183; p. 263.
Screw-stopper for bottles and other receptacles. J. Nightingale and J. Sackett. No. 1,016,286; Feb. 6; Sp. p. 113; Gaz. vol. 175; p. 18.
Screw-stopper for cans, drums, jars, bottles, &c. G. W. Cox. No. 1,031,775; July 9; Gaz. vol. 180; p. 364.
Screw, Temper-. J. C. Kahle. No. 1,018,910; Feb. 27; Sp. p. 5938; Gaz. vol. 175; p. 1023.
Screw-thread-cutting device. L. F. Hart. No. 1,017,148; Feb. 13; Sp. p. 2043; Gaz. vol. 175; p. 351.
Screw-thread-cutting device. J. R. Saylor. No. 1,040,022; Oct. 1; Gaz. vol. 183; p. 117.
Screw-thread-cutting devices, Machine for forming. R. P. Wright and F. W. Hubbard. No. 1,033,142; July 23; Gaz. vol. 180; p. 910.
Screw-threads on wire by rolling, Machine and apparatus for forming. M. T. Denne. No. 1,039,707; Oct. 1; Gaz. vol. 183; p. 12.
Screw-threads, Tool for cutting interior. G. A. Peddle. No. 1,027,625; May 28; Sp. p. 5544; Gaz. vol. 178; p. 970.
Screw-wrench. P. Meyer. No. 1,015,504; Jan. 23; Sp. p. 5331; Gaz. vol. 174; p. 914.
Screws, Expansion-shell for. G. M. Belton. No. 1,032,106; July 9; Gaz. vol. 180; p. 475.
Screws, Making set-. J. R. Grundy. No. 1,042,219; Oct. 22; Gaz. vol. 183; p. 960.
Scribing-work gage. G. A. Moss. No. 1,041,145; Oct. 15; Gaz. vol. 183; p. 563.
Scrubber and mop, Combined. B. Lee. No. 1,015,569; Jan. 23; Sp. p. 5475; Gaz. vol. 174; p. 937.
Scrubber and mop, Combined. W. Dupré. No. 1,020,809; Mar. 19; Sp. p. 3836; Gaz. vol. 176; p. 672.
Scrubber and mop, Combined. W. Dupré. No. 1,038,542; Sept. 17; Gaz. vol. 182; p. 528.
Scrubber and mop, Combined. L. M. Rossiter and T. C. Brew. No. 1,041,171; Oct. 15; Gaz. vol. 183; p. 573.
Scrubbing and polishing machine, Floor. J. Dematteis. No. 1,046,742; Dec. 10; Gaz. vol. 185; p. 369.
Scrubbing apparatus. W. L. Whitehead. No. 1,033,222; July 23; Gaz. vol. 180; p. 938.
Scrubbing apparatus. A. W. Fietz. No. 1,038,548; Sept. 17; Gaz. vol. 182; p. 530.
Scrubbing appliance, Pneumatic. A. E. Moorhead. No. 1,026,104; May 14; Sp. p. 2249; Gaz. vol. 178; p. 379.
Scrubbing appliance, Pneumatic. A. E. Moorhead. No. 1,042,713; Oct. 29; Gaz. vol. 183; p. 1160.
Scrubbing-board. J. E. Keily. No. 1,013,661; Jan. 2; Sp. p. 1262; Gaz. vol. 174; p. 198.
Scrubbing-machine. A. B. Butterworth. No. 1,020,125; Mar. 12; Sp. p. 2381; Gaz. vol. 176; p. 407.
Scrubbing-machine. V. Ballard. No. 1,028,527; June 4; Sp. p. 1014; Gaz. vol. 179; p. 154.
Scrubbing-machine. R. L. Sessom. No. 1,030,335; June 25; Sp. p. 4967; Gaz. vol. 179; p. 885.
Scrubbing-machine. A. Degraw. No. 1,030,392; June 25; Sp. p. 5082; Gaz. vol. 179; p. 906.
Scrubbing-machine. J. M. Doherty. No. 1,040,172; Oct. 1; Gaz. vol. 183; p. 168.
Scrubbing-machine. J. Swiontek. No. 1,044,942; Nov. 19; Gaz. vol. 184; p. 721.
Scrubbing-machine. A. Stumpf. No. 1,047,458; Dec. 17; Gaz. vol. 185; p. 647.
Scythe. W. Hoberg. No. 1,020,352; Mar. 12; Sp. p. 2839; Gaz. vol. 176; p. 481.
Scythe. C. Lamoreaux. No. 1,023,665; Apr. 16; Sp. p. 4047; Gaz. vol. 177; p. 710.
Scythe. H. E. Scott. No. 1,030,794; June 25; Sp. p. 6213; Gaz. vol. 179; p. 1050.
Scythe-blade. J. W. Timmons. No. 1,045,218; Nov. 26; Gaz. vol. 184; p. 846.
Scythe-blades on handles, Means for securing. J. Real. No. 1,024,650; Apr. 30; Sp. p. 6284; Gaz. vol. 177; p. 1107.
Scythe hand-grip. M. Miley. No. 1,042,708; Oct. 29; Gaz. vol. 183; p. 1158.
Sea-motor, Undercurrent. J. W. Master. No. 1,015,627; Jan. 23; Sp. p. 5591; Gaz. vol. 174; p. 958.
Sea-walls, &c., Forming. H. Baetz. No. 1,048,791; Dec. 31; Gaz. vol. 185; p. 1172.
Seal. N. H. Tunks. No. 1,018,687; Feb. 27; Sp. p. 5466; Gaz. vol. 175; p. 948.
Seal. D. D. Davis. No. 1,025,081; Apr. 30; Sp. p. 7155; Gaz. vol. 177; p. 1255.
Seal. J. A. Hallsted. No. 1,025,870; May 7; Sp. p. 1683; Gaz. vol. 178; p. 263.
Seal. G. H. Reid. No. 1,026,701; May 21; Sp. p. 3541; Gaz. vol. 178; p. 617.
Seal. N. H. Tunks. No. 1,028,800; June 4; Sp. p. 1571; Gaz. vol. 179; p. 245.
Seal. A. E. Irons. No. 1,037,010; Aug. 27; Gaz. vol. 181; p. 987.
Seal. A. M. Paulero. No. 1,038,639; Sept. 17; Gaz. vol. 182; p. 563.
Seal and tag, Car. N. Bohannon. No. 1,048,387; Dec. 24; Gaz. vol. 185; p. 993.
Seal, Bottle-. S. Friedman. No. 1,018,107; Feb. 20; Sp. p. 4175; Gaz. vol. 175; p. 718.
Seal, Bottle-. S. Baruch. No. 1,029,738; June 18; Sp. p. 3636; Gaz. vol. 179; p. 640.
Seal, Box-. S. Baruch. No. 1,041,724; Oct. 22; Gaz. vol. 183; p. 792.
Seal, Can-. C. J. Sinn. No. 1,039,601; Sept. 24; Gaz. vol. 182; p. 911.
Seal, Can-nozzle. H. W. Phelps. No. 1,022,045; Apr. 2; Sp. p. 628; Gaz. vol. 177; p. 99.
Seal, Car-. D. D. Davis. No. 1,016,985; Feb. 13; Sp. p. 1687; Gaz. vol. 175; p. 294.
Seal, Car-. A. C. Rosenbrook. No. 1,018,682; Feb. 27; Sp. p. 5458; Gaz. vol. 175; p. 946.
Seal, Car-. E. G. Gebauer. No. 1,021,244; Mar. 26; Sp. p. 4760; Gaz. vol. 176; p. 869.
Seal, Car-. W. H. Northall. No. 1,032,232; July 9; Gaz. vol. 180; p. 510.
Seal, Car-. W. C. Martineau. No. 1,032,414; July 16; Gaz. vol. 180; p. 625.
Seal, Car-. W. Grayson, Jr. No. 1,038,744; Sept. 17; Gaz. vol. 182; p. 599.
Seal, Car- A. Dueweke. No. 1,039,663; Sept. 24; Gaz. vol. 182; p. 932.
Seal, Car-. H. B. Reser. No. 1,041,672; Oct. 15; Gaz. vol. 183; p. 739.
Seal, Car-. O. C. Busse. No. 1,048,133; Dec. 24; Gaz. vol. 185; p. 909.
Seal, Car-door. O. C. Busse. No. 1,045,672; Nov. 26; Gaz. vol. 184; p. 1008.
Seal, Dripless pouring-bottle. C. S. Jackson. No. 1,027,544; May 28; Sp. p. 5387; Gaz. vol. 178; p. 944.
Seal, Envelop-. N. E. Pettitt. No. 1,023,034; Apr. 9; Sp. p. 2717; Gaz. vol. 177; p. 464.
Seal-fastening. G. K. Jessup. No. 1,048,837; Dec. 31; Gaz. vol. 185; p. 1188.
Seal for box-cars, &c. W. H. Northall. No. 1,038,782; Sept. 17; Gaz. vol. 182; p. 612.
Seal for fused-silicate containers. F. G. Keyes and C. A. Kraus. No. 1,014,757; Jan. 16; Sp. p. 3707; Gaz. vol. 174; p. 633.
Seal for packing-cases. S. Stroh. No. 1,018,943; Feb. 27; Sp. p. 6000; Gaz. vol. 175; p. 1035.
Seal for receptacles. H. B. Smith. No. 1,024,370; Apr. 23; Sp. p. 5559; Gaz. vol. 177; p. 975.
Seal for sectional leading-in wires. J. T. Fagan. No. 1,032,476; July 16; Gaz. vol. 180; p. 646.
Seal for service-cocks. P. Mueller. No. 1,038,183; Sept. 10; Gaz. vol. 182; p. 369.
Seal for service-cocks. P. Mueller. No. 1,048,198; Dec. 24; Gaz. vol. 185; p. 929.
Seal for vapor devices. P. H. Thomas. No. 1,018,642; Feb. 27; Sp. p. 5382; Gaz. vol. 175; p. 932.
Seal, Jar-. C. R. Keeran. No. 1,040,211; Oct. 1; Gaz. vol. 183; p. 182.
Seal, Lead. C. Sismondi. No. 1,027,445; May 28; Sp. p. 5194; Gaz. vol. 178; p. 911.
Seal-lock. H. J. Page. No. 1,013,891; Jan. 9; Sp. p. 1790; Gaz. vol. 174; p. 307.
Seal-lock. A. Woolen. No. 1,028,834; June 4; Sp. p. 1646; Gaz. vol. 179; p. 257.
Seal-lock. J. MacKenzie. No. 1,040,713; Oct. 8; Gaz. vol. 183; p. 387.
Seal-lock. A. Woolen. No. 1,044,964; Nov. 19; Gaz. vol. 184; p. 728.
Seal-lock for boxes. J. Sehrt. No. 1,021,165; Mar. 26; Sp. p. 4586; Gaz. vol. 176; p. 843.

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Seal, Milk-can. E. J. Cowell. No. 1,033,785; July 30; Gaz. vol. 180; p. 1148.
Seal or closure, Bottle. J. Prowett. No. 1,042,267; Oct. 22; Gaz. vol. 183; p. 976.
Seal, Pipe-coupling. P. Mueller and A. C. Schuermann. No. 1,039,576; Sept. 24; Gaz. vol. 182; p. 903.
Seal-plug. J. B. Kitts, Sr. No. 1,030,309; June 25; Sp. p. 4906; Gaz. vol. 179; p. 875.
Seal-press. M. Sheras. No. 1,013,228; Jan. 2; Sp. p. 307; Gaz. vol. 174; p. 49.
Seal-press. H. H. Wenthe. No. 1,014,105; Jan. 9; Sp. p. 2274; Gaz. vol. 174; p. 379.
Seal-press, Registering. C. D. Stamper. No. 1,028,914; June 11; Sp. p. 1842; Gaz. vol. 179; p. 319.
Seal primer, Sewer-. A. C. Dale. No. 1,016,676; Feb. 6; Sp. p. 1013; Gaz. vol. 175; p. 154.
Seal, Protective. T. S. Wood. No. 1,017,837; Feb. 20; Sp. p. 3548; Gaz. vol. 175; p. 623.
Seal, Self-locking. W. A. Bramberry. No. 1,038,485; Sept. 10; Gaz. vol. 182; p. 474.
Seal, Snap-. W. M. Brooks. No. 1,013,836; Jan. 2; Sp. p. 1624; Gaz. vol. 174; p. 259.
Seal, Snap-. E. J. Brooks. No. 1,017,950; Feb. 20; Sp. p. 3321; Gaz. vol. 175; p. 663.
Seal, Snap-. E. J. Brooks. No. 1,026,943; May 21; Sp. p. 4120; Gaz. vol. 178; p. 702.
Seal, Snap-. E. J. Brooks. No. 1,027,812; May 28; Sp. p. 5945; Gaz. vol. 178; p. 1032.
Seal, Snap-. E. J. Brooks. No. 1,030,457; June 25; Sp. p. 5223; Gaz. vol. 179; p. 929.
Seal, Snap-. E. J. Brooks. No. 1,030,458; June 25; Sp. p. 5225; Gaz. vol. 179; p. 930.
Seal, Snap-. E. J. Brooks. No. 1,035,526; Aug. 13; Gaz. vol. 181; p. 412.
Seal, Snap-. E. J. Brooks. No. 1,038,082; Sept. 10; Gaz. vol. 182; p. 337.
Seal, Snap-. W. M. Brooks. No. 1,039,358; Sept. 24; Gaz. vol. 182; p. 826.
Seals in metallic caps, Machine for forming. C. D. McDonald. No. 1,013,841; Jan. 2; Sp. p. 1637; Gaz. vol. 174; p. 262.
Seals, Machine for applying bottle-. C. Winter. No. 1,013,351; Jan. 2; Sp. p. 581; Gaz. vol. 174; p. 92.
Seals, Tool for removing. J. J. Ferrall and E. Mackay. No. 1,029,578; June 11; Sp. p. 3262; Gaz. vol. 179; p. 547.
Sealer, Fruit-jar-cap. H. Kaiser. No. 1,038,760; Sept. 17; Gaz. vol. 182; p. 604.
Sealing and protecting perishable products. W. A. Levering. No. 1,024,638; Apr. 30; Sp. p. 6264; Gaz. vol. 177; p. 1103.
Sealing and stamping machine, Envelop. J. E. Lederman. No. 1,047,664; Dec. 17; Gaz. vol. 185; p. 721.
Sealing apparatus, Hermetic-. J. Merritt. No. 1,026,404; May 14; Sp. p. 2909; Gaz. vol. 178; p. 482.
Sealing device. G. E. Palmer. No. 1,014,252; Jan. 9; Sp. p. 2592; Gaz. vol. 174; p. 432.
Sealing device. A. E. Irons. No. 1,038,373; Sept. 10; Gaz. vol. 182; p. 434.
Sealing device, Bottle-. S. Krnka. No. 1,029,450; June 11; Sp. p. 3010; Gaz. vol. 179; p. 504.
Sealing device, Envelop-. J. D. Young. No. 1,023,777; Apr. 16; Sp. p. 4235; Gaz. vol. 177; p. 744.
Sealing device, Envelop-. J. Slaybaugh and W. L. Schroeder. No. 1,031,296; July 2; Gaz. vol. 180; p. 158.
Sealing device for cans, &c. S. W. Milligan and J. F. Jacobsen. No. 1,040,726; Oct. 8; Gaz. vol. 183; p. 391.
Sealing device for foot-ball bladders, &c. J. W. Albers. No. 1,037,406; Sept. 3; Gaz. vol. 182; p. 77.
Sealing device for wrappers. J. E. Lang. No. 1,029,377; June 11; Sp. p. 2846; Gaz. vol. 179; p. 478.
Sealing electrical conductors through or into hard vitreous substances, Hermetically. G. B. Burnside. No. 1,016,320; Feb. 6; Sp. p. 192; Gaz. vol. 175; p. 29.
Sealing-machine. W. C. Powell. No. 1,036,332; Aug. 20; Gaz. vol. 181; p. 726.
Sealing machine, Bottle-. W. E. Lindsay. No. 1,018,575; Feb. 27; Sp. p. 5241; Gaz. vol. 175; p. 911.
Sealing machine, Bottle-. W. F. Stone. No. 1,037,359; Sept. 3; Gaz. vol. 182; p. 60.
Sealing machine, Can-. A. Malmquist. No. 1,039,770; Oct. 1; Gaz. vol. 183; p. 34.
Sealing machine, Carton-. H. Hager. No. 1,013,768; Jan. 2; Sp. p. 1498; Gaz. vol. 174; p. 237.
Sealing machine, Carton-. C. Read. No. 1,032,774; July 16; Gaz. vol. 180; p. 749.
Sealing machine, Carton-. R. S. Clarke. No. 1,034,344; July 30; Gaz. vol. 180; p. 1345.
Sealing machine, Carton-. A. N. Albee. No. 1,037,845; Sept. 10; Gaz. vol. 182; p. 256.
Sealing machine, Envelop-. C. H. Davis. No. 1,044,756; Nov. 19; Gaz. vol. 184; p. 659.
Sealing machine, Envelop-. G. S. Lewis. No. 1,046,472; Dec. 10; Gaz. vol. 185; p. 273.
Sealing machine, Envelop-. F. A. Maxwell. No. 1,046,477; Dec. 10; Gaz. vol. 185; p. 275.
Sealing means, Ice-. B. J. O'Quinn. No. 1,043,458; Nov. 5; Gaz. vol. 184; p. 148.
Sealing metal vapor apparatus with mercury packing, Hermetically. B. B. Schaefer. No. 1,048,592; Dec. 31; Gaz. vol. 185; p. 1100.
Sealing-press. W. V. Goodnow. No. 1,046,771; Dec. 10; Gaz. vol. 185; p. 380.
Sealing-ring for jar-closures. G. H. Womelsdorf. No. 1,026,542; May 14; Sp. p. 3183; Gaz. vol. 178; p. 527.
Sealing the ends of metallic tubes, Machine for. G. G. Rambaud. No. 1,026,456; May 14; Sp. p. 3019; Gaz. vol. 178; p. 498.
Sealing-wax machine, Electric. A. W. Lockard. No. 1,018,977; Feb. 27; Sp. p. 6091; Gaz. vol. 175; p. 1048.
Seam and making chain-stitches, Chain-stitch. F. La Chapelle. No. 1,030,784; June 25; Sp. p. 6191; Gaz. vol. 179; p. 1047.
Seam-ripper. J. E. Daniels. No. 1,021,863; Apr. 2; Sp. p. 244; Gaz. vol. 177; p. 40.
Seam-ripper. D. J. Allie. No. 1,045,658; Nov. 26; Gaz. vol. 184; p. 1003.
Seam-trimming and welt-beating machine. C. L. Eaton. No. 1,018,039; Feb. 20; Sp. p. 4011; Gaz. vol. 175; p. 694.
Seams, Forming chain-stitch. C. P. Holmes. No. 1,030,815; June 25; Sp. p. 6282; Gaz. vol. 179; p. 1058.
Seamer, Double-end can-. C. Leffler. No. 1,047,666; Dec. 17; Gaz. vol. 185; p. 722.
Seaming and folding machine for the manufacture of boxes, canisters, &c., Sheet-metal. F. E. Adams. No. 1,040,835; Oct. 8; Gaz. vol. 183; p. 426.
Seaming and vacuumizing machine, Double-. L. Wurzburg. No. 1,028,652; June 4; Sp. p. 1268; Gaz. vol. 179; p. 195.
Seaming machine, Butt-. C. L. Turner. No. 1,041,201; Oct. 15; Gaz. vol. 183; p. 582.
Seaming machine, Can-head-. F. J. Smith. No. 1,034,373; July 30; Gaz. vol. 180; p. 1356.
Seaming machine, Double-. F. Rudolphi. No. 1,023,039; Apr. 9; Sp. p. 2730; Gaz. vol. 177; p. 466.
Seaming machine, Double-. C. E. Forry. No. 1,042,211; Oct. 22; Gaz. vol. 183; p. 957.
Seaming mechanism, Can-head-. A. Johnson. No. 1,040,952; Oct. 8; Gaz. vol. 183; p. 464.
Search-light. H. Salsbury and T. Whitaker. No. 1,044,252; Nov. 12; Gaz. vol. 184; p. 453.
Search-light for automobiles, Electric. C. A. Lewis. No. 1,022,634; Apr. 9; Sp. p. 1860; Gaz. vol. 177; p. 325.
Search-light, Mechanically-operated. M. L. Severson. No. 1,027,913; May 28; Sp. p. 6219; Gaz. vol. 178; p. 1067.
Search-light, Portable. H. B. Kenyon. No. 1,016,887; Feb. 6; Sp. p. 1434; Gaz. vol. 175; p. 223.
Search-light projector. E. A. Edmonds. No. 1,047,395; Dec. 17; Gaz. vol. 185; p. 625.
Search-light, Reflector. R. Straubel. No. 1,046,673; Dec. 10; Gaz. vol. 185; p. 344.
Seasoning and making the same. E. D. Houston. (Reissue.) No. 13,495; Dec. 10; Gaz. vol. 185; p. 505.
Seasoning material and making same. H. Fleck. No. 1,038,334; Sept. 10; Gaz. vol. 182; p. 421.
Seat: *See* Adjustable seat; Automobile-seat; Bath-seat; Bicycle spring-seat; Buggy-seat; Car-seat; Chair-seat; Closet-seat; Cycle-seat; Locomotive-cab drop-seat; Metal seat; Rail-seat; Sanitary seat; Spring-seat; Valve-seat; Vehicle-seat; Wigwam-seat; Window-cleaner's seat.
Seat. J. R. Graves. No. 1,023,423; Apr. 16; Sp. p. 3562; Gaz. vol. 177; p. 634.
Seat. F. Treude. No. 1,028,152; June 4; Sp. p. 161; Gaz. vol. 179; p. 25.
Seat. J. R. Willard. No. 1,041,213; Oct. 15; Gaz. vol. 183; p. 586.
Seat. G. E. Morse. No. 1,043,450; Nov. 5; Gaz. vol. 184; p. 144.
Seat and stiffener, Combined. L. A. Buffinger and D. Robertson. No. 1,039,692; Oct. 1; Gaz. vol. 183; p. 6.
Seat-body-forming machine. M. H. Kashian. No. 1,016,416; Feb. 6; Sp. p. 400; Gaz. vol. 175; p. 63.
Seat-dresser and cutter-holder, Combined. W. Kaiser. No. 1,041,479; Oct. 15; Gaz. vol. 183; p. 676.
Seat-fastener. L. H. Hubbard. No. 1,038,892; Sept. 17; Gaz. vol. 182; p. 650.
Seat for pianos, sewing-machines, &c. J. G. Bauer and F. Gardner. No. 1,026,140; May 14; Sp. p. 2318; Gaz. vol. 178; p. 391.
Seat post, Spring-. W. S. Harley. (Reissue.) No. 13,383; Mar. 12; Sp. p. 2926; Gaz. vol. 176; p. 495.
Seat-support. W. S. Harley. No. 1,024,684; Apr. 30; Sp. p. 6357; Gaz. vol. 177; p. 1119.
Seat-support. W. S. Harley. No. 1,024,685; Apr. 30; Sp. p. 6359; Gaz. vol. 177; p. 1120.
Seat-support, Spring. F. J. Berry. No. 1,027,171; May 21; Sp. p. 4632; Gaz. vol. 178; p. 778.
Seats, Attachment for hinged. W. G. Winans. No. 1,019,397; Mar. 5; Sp. p. 919; Gaz. vol. 176; p. 135.
Seats, Side standard for. W. B. Cogger. No. 1,019,134; Mar. 5; Sp. p. 283; Gaz. vol. 176; p. 44.
Secondary battery. P. Marino. No. 1,023,861; Apr. 23; Sp. p. 4470; Gaz. vol. 177; p. 801.
Secondary battery. G. J. Johnson. No. 1,029,015; June 11; Sp. p. 2064; Gaz. vol. 179; p. 355.
Secondary battery. A. H. Darker. No. 1,039,907; Oct. 1; Gaz. vol. 183; p. 80.
Secondary or storage battery. J. P. Clare. No. 1,017,080; Feb. 13; Sp. p. 1914; Gaz. vol. 175; p. 328.

Alphabetical list of inventions—Continued.

Sectional boiler. J. B. Bernhard. No. 1,038,718; Sept. 17; Gaz. vol. 182; p. 589.
Sectional boiler. D. Boies and J. A. Waddell, Jr. No. 1,045,668; Nov. 26; Gaz. vol. 184; p. 1006.
Sectional brace. E. Cooper and C. E. Clark. No. 1,026,659; May 21; Sp. p. 3456; Gaz. vol. 178; p. 603.
Sectional case, Knockdown. O. B. Rowlette. No. 1,026,180; May 14; Sp. p. 2398; Gaz. vol. 178; p. 404.
Sectional heater. J. J. Reinartz. No. 1,030,246; June 18; Sp. p. 4730; Gaz. vol. 179; p. 814.
Sectional kiln. G. C. F. Vater. No. 1,041,379; Oct. 15; Gaz. vol. 183; p. 643.
Sectional tank. W. E. Shoemaker. No. 1,037,554; Sept. 3; Gaz. vol. 182; p. 128.
Sectionalizing device, Automatic. L. A. Hawkins. No. 1,023,377; Apr. 16; Sp. p. 3469; Gaz. vol. 177; p. 619.
Sectionized tank. A. N. Eaton. No. 1,029,745; June 18; Sp. p. 3645; Gaz. vol. 179; p. 643.
Sedan. D. P. Kelso. No. 1,020,987; Mar. 26; Sp. p. 4223; Gaz. vol. 176; p. 784.
Seed and grain separator. T. K. Barnett. No. 1,023,983; Apr. 23; Sp. p. 4750; Gaz. vol. 177; p. 843.
Seed-cleaner. P. L. Willet. No. 1,030,260; June 18; Sp. p. 4758; Gaz. vol. 179; p. 819.
Seed-cleaning machine. P. L. Willet. No. 1,017,631; Feb. 13; Sp. p. 3054; Gaz. vol. 175; p. 515.
Seed-corn box. O. L. Dunkelbarger. No. 1,049,293; Dec. 31; Gaz. vol. 185; p. 1343.
Seed-corn drier. L. W. Hurff. No. 1,045,407; Nov. 26; Gaz. vol. 184; p. 911.
Seed-corn stringer. F. E. Weaver. No. 1,028,645; June 4; Sp. p. 1253; Gaz. vol. 179; p. 193.
Seed-corn stringer. J. L. Harper. No. 1,046,183; Dec. 3; Gaz. vol. 185; p. 131.
Seed-corn-testing apparatus. C. E. Twamley. No. 1,031,669; July 2; Gaz. vol. 180; p. 284.
Seed-cotton cleaner. B. C. White. No. 1,030,249; June 18; Sp. p. 4735; Gaz. vol. 179; p. 815.
Seed crusher and distributer, Cotton-. J. A. Gardner. No. 1,029,987; June 18; Sp. p. 4182; Gaz. vol. 179; p. 725.
Seed delinter and gin, Cotton-. P. and J. S. White. No. 1,020,787; Mar. 19; Sp. p. 3795; Gaz. vol. 176; p. 665.
Seed delinter, Cotton-. C. H. Golloher. No. 1,019,955; Mar. 12; Sp. p. 2028; Gaz. vol. 176; p. 350.
Seed delinter, Cotton-. J. H. McCormick. No. 1,020,108; Mar. 12; Sp. p. 2350; Gaz. vol. 176; p. 402.
Seed-delinting drum, Cotton-. J. H. McCormick. No. 1,038,927; Sept. 17; Gaz. vol. 182; p. 663.
Seed-delinting machine, Cotton-. J. G. Reid. No. 1,014,518; Jan. 9; Sp. p. 3135; Gaz. vol. 174; p. 521.
Seed-drill. F. M. Sheldon. No. 1,018,933; Feb. 27; Sp. p. 5980; Gaz. vol. 175; p. 1031.
Seed-drill. D. I. Cheley. No. 1,038,852; Sept. 17; Gaz. vol. 182; p. 637.
Seed-dropping mechanism. C. H. Nesvant. No. 1,044,905; Nov. 19; Gaz. vol. 184; p. 709.
Seed-dropping mechanism, Cotton-. W. S. Graham. No. 1,017,664; Feb. 20; Sp. p. 3122; Gaz. vol. 175; p. 564.
Seed-germination-testing device. H. G. Coy. No. 1,045,816; Dec. 3; Gaz. vol. 185; p. 7.
Seed-grader. A. T. Martin. No. 1,026,327; May 14; Sp. p. 2728; Gaz. vol. 178; p. 456.
Seed, Grading cotton-. J. O. B. Street. No. 1,025,028; Apr. 30; Sp. p. 7051; Gaz. vol. 177; p. 1239.
Seed huller, Cotton-. C. A. Chandler. No. 1,027,320; May 21; Sp. p. 4933; Gaz. vol. 178; p. 830.
Seed-potato cutter. H. J. Springer. No. 1,032,632; July 16; Gaz. vol. 180; p. 699.
Seed-screening device. G. W. Pryor. No. 1,045,435; Nov. 26; Gaz. vol. 184; p. 922.
Seed-testing apparatus. W. J. Buttschau. No. 1,031,771; July 9; Gaz. vol. 180; p. 363.
Seed-testing device. M. P. Reynolds. No. 1,044,247; Nov. 12; Gaz. vol. 184; p. 451.
Seed-wheat cleaner. J. S. Broyles. No. 1,027,813; May 28; Sp. p. 5948; Gaz. vol. 178; p. 1033.
Seeds and the like, Apparatus for cleaning and separating. F. M. Dossor. No. 1,028,447; June 4; Sp. p. 853; Gaz. vol. 179; p. 127.
Seeds from corn-waste, Machine for separating weed-. N. P. Pichula. No. 1,027,274; May 21; Sp. p. 4834; Gaz. vol. 178; p. 815.
Seeder and planter. J. C. Moore. No. 1,018,580; Feb. 27; Sp. p. 5260; Gaz. vol. 175; p. 913.
Seeder, Broadcast. S. B. Hart. No. 1,026,313; May 14; Sp. p. 2693; Gaz. vol. 178; p. 451.
Seeder, planter, and fertilizer-distributer. J. W. Akin and S. Arnett. No. 1,049,319; Dec. 31; Gaz. vol. 185; p. 1353.
Seeding-machine. E. E. Towle. No. 1,028,403; June 4; Sp. p. 744; Gaz. vol. 179; p. 112.
Seeding-machine. F. R. Packham. No. 1,029,712; June 18; Sp. p. 3580; Gaz. vol. 179; p. 632.
Seeding-machine. F. R. Packham. No. 1,039,788; Oct. 1; Gaz. vol. 183; p. 40.
Seeding-machine. L. E. Waterman. No. 1,042,990; Oct. 29; Gaz. vol. 183; p. 1254.
Seeding-machine. S. Sörensen. No. 1,045,624; Nov. 26; Gaz. vol. 184; p. 990.
Seeding-machine grain-tube. W. A. Van Brunt. No. 1,013,338; Jan. 2; Sp. p. 550; Gaz. vol. 174; p. 88.
Seeding-roll. G. L. Langer. No. 1,023,856; Apr. 23; Sp. p. 4462; Gaz. vol. 177; p. 799.
Selective signal. L. W. Carroll. No. 1,036,796; Aug. 27; Gaz. vol. 181; p. 915.
Self-cleaning bin. F. S. Ingoldsby. No. 1,031,120; July 2; Gaz. vol. 180; p. 96.
Self-feeder, Protective. J. E. Gregory. No. 1,048,151; Dec. 24; Gaz. vol. 185; p. 915.
Self-leveling table. W. Hartley. No. 1,047,216; Dec. 17; Gaz. vol. 185; p. 561.
Self-leveling table and chair. J. H. Jacob. No. 1,015,230; Jan. 16; Sp. p. 4711; Gaz. vol. 174; p. 794.
Self-locking mechanism. S. L. Allen. No. 1,013,098; Jan. 2; Sp. p. 6; Gaz. vol. 174; p. 4.
Self-measuring device. A. A. Bowser. No. 1,046,052; Dec. 3; Gaz. vol. 185; p. 87.
Self-oiling device. J. Henning. No. 1,026,952; May 21; Sp. p. 4137; Gaz. vol. 178; p. 705.
Self-starting direct-connected generator. C. D. Knight and W. O. Lum. No. 1,028,364; June 4; Sp. p. 660; Gaz. vol. 179; p. 99.
Selling device and change-maker, Electric ticket-. L. L. Pim and J. J. Christmann. No. 1,014,515; Jan. 9; Sp. p. 3127; Gaz. vol. 174; p. 520.
Semaphore. L. H. Van Zandt. No. 1,014,985; Jan. 16; Sp. p. 4231; Gaz. vol. 174; p. 712.
Semaphore, Electrically-controlled. E. R. Gill. No. 1,013,290; Jan. 2; Sp. p. 454; Gaz. vol. 174; p. 71.
Semaphore-blade and holder therefor. G. Petigio. No. 1,033,462; July 23; Gaz. vol. 180; p. 1017.
Semaphore-pole. C. A. Helderman and J. S. Russell. No. 1,029,442; June 11; Sp. p. 2991; Gaz. vol. 179; p. 501.
Semaphore-signal. M. Aitken. No. 1,031,610; July 2; Gaz. vol. 180; p. 264.
Semaphore-signal. W. W. Brown. No. 1,038,278; Sept. 10; Gaz. vol. 182; p. 402.
Semaphore-signal. J. Kutyla. No. 1,042,128; Oct. 22; Gaz. vol. 183; p. 930.
Semaphores, Means for operating. W. K. Howe. No. 1,024,853; Apr. 30; Sp. p. 6704; Gaz. vol. 177; p. 1180.
Semen-extractor. M. W. Johnson. No. 1,048,316; Dec. 24; Gaz. vol. 185; p. 969.
Semirotary motor. W. G. Stowell. No. 1,025,933; May 7; Sp. p. 1844; Gaz. vol. 178; p. 284.
Separating and collecting particles of one substance suspended in another substance, Apparatus for. A. C. Wright. No. 1,034,668; Aug. 6; Gaz. vol. 181; p. 88.
Separating apparatus. W. M. O'Brien. No. 1,028,131; June 4; Sp. p. 85; Gaz. vol. 179; p. 17.
Separating apparatus. I. and H. K. Christ. No. 1,030,231; June 18; Sp. p. 4701; Gaz. vol. 179; p. 809.
Separating-case. C. H. Middaugh. No. 1,030,317; June 25; Sp. p. 4923; Gaz. vol. 179; p. 878.
Separating device. J. E. Rothwell. No. 1,028,789; June 4; Sp. p. 1548; Gaz. vol. 179; p. 241.
Separating devices, Electrically charging electrostatic. F. O. Schnelle. No. 1,026,464; May 14; Sp. p. 3036; Gaz. vol. 178; p. 501.
Separating-machine, Centrifugal. A. H. Reid. No. 1,019,836; Mar. 12; Sp. p. 1764; Gaz. vol. 176; p. 309.
Separating materials, Method and apparatus for. D. W. Troy. No. 1,024,109; Apr. 23; Sp. p. 5021; Gaz. vol. 177; p. 887.
Separating materials of different specific gravity, Apparatus for. G. R. Delamater. No. 1,046,447; Dec. 10; Gaz. vol. 185; p. 263.
Separating mechanism. F. H. Mason and J. Allen. No. 1,021,690; Mar. 26; Sp. p. 5673; Gaz. vol. 176; p. 1021.
Separating small particles from larger particles, Apparatus for. J. Higginbottom. No. 1,022,587; Apr. 9; Sp. p. 1757; Gaz. vol. 177; p. 310.
Separating substances. F. Ecaubert. No. 1,046,568; Dec. 10; Gaz. vol. 185; p. 308.
Separating substances in suspension by washing. B. Schwerin. No. 1,029,579; June 11; Sp. p. 3264; Gaz. vol. 179; p. 547.
Separating substances of different specific gravities, Apparatus for. W. C. Anderson. No. 1,025,231; May 7; Sp. p. 265; Gaz. vol. 178; p. 44.
Separator: *See* Bean-separator; Butter-separator; Centrifugal separator; Centrifugal liquid-separator; Chicken-separator; Coal-separator; Coal and slate separator; Coin-separator; Cotton-separator; Cream-separator; Dust-separator; Dust and grain separator; Egg-separator; Electrolytic separator; Electromagnetic separator; Electrostatic separator; Gas-separator; Grain-separator; Liquid-separator; Magnetic separator; Metal-separator; Oil-separator; Oil and water separator; Ore-separator; Placer-separator; Pulp-separator; Root-separator; Sand-separator; Seed and grain separator; Sewage-separator; Sheet-separator; Steam-separator; Tooth-separator; Universal separator; Vacuum-pan separator; Valve-separator.
Separator. I. Blount. No. 1,016,241; Jan. 30; Sp. p. 6876; Gaz. vol. 174; p. 1194.
Separator. I. H. Spencer. No. 1,016,972; Feb. 13; Sp. p. 1649; Gaz. vol. 175; p. 290.
Separator. G. W. Elder. No. 1,023,462; Apr. 16; Sp. p. 3639; Gaz. vol. 177; p. 646.
Separator. W. A. Fulton. No. 1,025,694; May 7; Sp. p. 1299; Gaz. vol. 178; p. 202.

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Separator. J. Hickey. No. 1,026,675; May 21; Sp. p. 3484; Gaz. vol. 178; p. 608.
Separator. H. L. Day. No. 1,029,571; June 11; Sp. p. 3250; Gaz. vol. 179; p. 545.
Separator. T. Willma. No. 1,035,930; Aug. 20; Gaz. vol. 181; p. 585.
Separator. J. E. Caps. No. 1,041,589; Oct. 15; Gaz. vol. 183; p. 710.
Separator. F. O. Stromborg. No. 1,042,836; Oct. 29; Gaz. vol. 183; p. 1201.
Separator. J. Schneible. No. 1,043,974; Nov. 12; Gaz. vol. 184; p. 358.
Separator. H. P. De Zetter. No. 1,048,052; Dec. 24; Gaz. vol. 185; p. 880.
Separator. J. S. Fasting. No. 1,049,217; Dec. 31; Gaz. vol. 185; p. 1317.
Separator. W. R. Morse. No. 1,049,257; Dec. 31; Gaz. vol. 185; p. 1331.
Separator, Aerating butter-. A. Fay. No. 1,032,663; July 16; Gaz. vol. 180; p. 710.
Separator and amalgamator. J. Wick. No. 1,027,952; May 28; Sp. p. 6280; Gaz. vol. 178; p. 1079.
Separator and volatilizer. A. T. Edmonson. No. 1,036,812; Aug. 27; Gaz. vol. 181; p. 920.
Separator and washer. J. H. Shafer and T. Cornuelle. No. 1,033,203; July 23; Gaz. vol. 180; p. 931.
Separator cleaning-rack, Grain-. R. L. Owens. No. 1,029,507; June 11; Sp. p. 3118; Gaz. vol. 179; p. 523.
Separators, Feed and distributing means for. A. J. Arbuckle. No. 1,030,271; June 25; Sp. p. 4802; Gaz. vol. 179; p. 861.
Separators, Feeder for dry. F. O. Stromborg. No. 1,028,797; June 4; Sp. p. 1566; Gaz. vol. 179; p. 244.
Septic tank. W. A. McKnight. No. 1,046,097; Dec. 3; Gaz. vol. 185; p. 102.
Service-board, Sectional. N. Joleen. No. 1,039,139; Sept. 24; Gaz. vol. 182; p. 748.
Service-box cover. C. T. Ford. No. 1,014,138; Jan. 9; Sp. p. 2335; Gaz. vol. 174; p. 390.
Service-box key. S. T. Downs. No. 1,018,172; Feb. 20; Sp. p. 4316; Gaz. vol. 175; p. 741.
Service-meter system. C. S. Winston. No. 1,045,925; Dec. 3; Gaz. vol. 185; p. 44.
Service-motor operated by liquid for controlling mechanisms. A. Balloco. No. 1,047,146; Dec. 17; Gaz. vol. 185; p. 535.
Service or valve box. G. Schumacher. No. 1,027,911; May 28; Sp. p. 6213; Gaz. vol. 178; p. 1066.
Service-pipe for water-storage systems, &c. W. H. Allen. No. 1,030,447; June 25; Sp. p. 5202; Gaz. vol. 179; p. 925.
Serving apparatus. F. Korff. No. 1,028,942; June 11; Sp. p. 1900; Gaz. vol. 179; p. 328.
Serving system, Automatic. J. Doyle. No. 1,019,137; Mar. 5; Sp. p. 290; Gaz. vol. 176; p. 45.
Serving-table. T. E. Davis. No. 1,021,454; Mar. 26; Sp. p. 5219; Gaz. vol. 176; p. 943.
Settler and filter, Combined. E. Wagner. No. 1,041,533; Oct. 15; Gaz. vol. 183; p. 693.
Settling and separating tank. H. C. Holthoff. No. 1,043,698; Nov. 5; Gaz. vol. 184; p. 230.
Settling-machine. C. D. Scott. No. 1,047,455; Dec. 17; Gaz. vol. 185; p. 645.
Settling-tank. A. J. Arbuckle. No. 1,020,013; Mar. 12; Sp. p. 2143; Gaz. vol. 176; p. 369.
Sewage and distillery or brewery wash or waste, Treatment and utilization of. A. Dickson. No. 1,015,302; Jan. 23; Sp. p. 4882; Gaz. vol. 174; p. 845.
Sewage and the like, Apparatus for reducing. A. Maclachlan. No. 1,035,797; Aug. 13; Gaz. vol. 181; p. 501.
Sewage-disposal apparatus, Cellular wall for. D. A. Helmich. No. 1,033,011; July 16; Gaz. vol. 180; p. 827.
Sewage-disposal plant. A. H. Wehr. No. 1,027,948; May 28; Sp. p. 6275; Gaz. vol. 178; p. 1078.
Sewage-disposal plant. S. B. Goff. No. 1,046,172; Dec. 3; Gaz. vol. 185; p. 128.
Sewage, &c., distributing apparatus. R. B. Brown. No. 1,035,414; Aug. 13; Gaz. vol. 181; p. 374.
Sewage-diverting gate. E. L. Wagner. No. 1,035,926; Aug. 20; Gaz. vol. 181; p. 583.
Sewage-separator. J. S. Miller. No. 1,019,907; Mar. 12; Sp. p. 1931; Gaz. vol. 176; p. 336.
Sewage-sludge, Treatment of. J. Grossmann. No. 1,025,622; May 7; Sp. p. 1163; Gaz. vol. 178; p. 179.
Sewage, Treatment of. J. S. Waddington. No. 1,019,933; Mar. 12; Sp. p. 1988; Gaz. vol. 176; p. 344.
Sewer cleaning, flushing, and disinfecting device. H. Sieben and W. J. Stevenson. No. 1,036,735; Aug. 27; Gaz. vol. 181; p. 894.
Sewer-pipe construction. W. Lucas. No. 1,042,579; Oct. 29; Gaz. vol. 183; p. 1112.
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Sewer-pipe, Sectional. J. M. Phelan. No. 1,047,983; Dec. 24; Gaz. vol. 185; p. 857.
Sewer-trap. C. Kelty and D. P. Joralemon. No. 1,018,569; Feb. 27; Sp. p. 5233; Gaz. vol. 175; p. 909.
Sewed articles, Seam for. V. J. Van Horn. No. 1,026,332; May 14; Sp. p. 2745; Gaz. vol. 178; p. 458.
Sewed articles, Taped seam for. E. B. Allen. No. 1,030,446; June 25; Sp. p. 5200; Gaz. vol. 179; p. 925.
Sewing and cutting machine, Overedge. C. M. Abercrombie. No. 1,025,441; May 7; Sp. p. 749; Gaz. vol. 178; p. 116.
Sewing and trimming machine. C. W. Thomas. No. 1,015,917; Jan. 30; Sp. p. 6214; Gaz. vol. 174; p. 1084.
Sewing attachment, Button-. H. B. Johnston. No. 1,024,202; Apr. 23; Sp. p. 5250; Gaz. vol. 177; p. 920.
Sewing-clamp. N. A. Griner. No. 1,047,794; Dec. 17; Gaz. vol. 185; p. 766.
Sewing-machine. G. E. Molyneux. No. 1,013,204; Jan. 2; Sp. p. 231; Gaz. vol. 174; p. 39.
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Sewing-machine. T. G. Plant. No. 1,018,130; Feb. 20; Sp. p. 4224; Gaz. vol. 175; p. 726.
Sewing-machine. R. L. Lyons. No. 1,018,201; Feb. 20; Sp. p. 4373; Gaz. vol. 175; p. 751.
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Sewing-machine. D. Noble. No. 1,020,112; Mar. 12; Sp. p. 2360; Gaz. vol. 176; p. 403.
Sewing-machine. G. E. Molyneux. No. 1,024,691; Apr. 30; Sp. p. 6365; Gaz. vol. 177; p. 1121.
Sewing-machine. J. P. Weis. No. 1,026,839; May 21; Sp. p. 3849; Gaz. vol. 178; p. 665.
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Sewing-machine. M. H. Pearson. No. 1,029,887; June 18; Sp. p. 3979; Gaz. vol. 179; p. 692.
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Sewing-machine. F. J. Freese. No. 1,030,774; June 25; Sp. p. 6147; Gaz. vol. 179; p. 1043.
Sewing-machine. G. E. Warren. No. 1,030,797; June 25; Sp. p. 6218; Gaz. vol. 179; p. 1052.
Sewing-machine. C. P. Holmes. No. 1,030,812; June 25; Sp. p. 6269; Gaz. vol. 179; p. 1057.
Sewing-machine. C. P. Holmes. No. 1,030,814; June 25; Sp. p. 6277; Gaz. vol. 179; p. 1058.
Sewing-machine. C. P. Holmes. No. 1,030,816; June 25; Sp. p. 6284; Gaz. vol. 179; p. 1059.
Sewing-machine. W. E. Stone. No. 1,030,836; June 25; Sp. p. 6400; Gaz. vol. 179; p. 1067.
Sewing-machine. H. Briggs. No. 1,030,867; July 2; Gaz. vol. 180; p. 6.
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Sewing-machine. E. Erickson. No. 1,033,564; July 23; Gaz. vol. 180; p. 1051.
Sewing-machine. W. Arbetter. No. 1,035,939; Aug. 20; Gaz. vol. 181; p. 588.
Sewing-machine. F. Chatfield. No. 1,038,851; Sept. 17; Gaz. vol. 182; p. 637.
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Sewing-machine. S. Borton. No. 1,041,574; Oct. 15; Gaz. vol. 183; p. 705.
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Sewing-machine. E. Drake. No. 1,042,537; Oct. 29; Gaz. vol. 183; p. 1097.
Sewing-machine. W. A. Mack. No. 1,043,329; Nov. 5; Gaz. vol. 184; p. 102.
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Sewing-machine. N. De Long. No. 1,047,178; Dec. 17; Gaz. vol. 185; p. 546.
Sewing-machine. F. Baker and L. Jacobs. No. 1,047,728; Dec. 17; Gaz. vol. 185; p. 743.
Sewing-machine. J. C. Moore. No. 1,047,974; Dec. 24; Gaz. vol. 185; p. 854.
Sewing-machine. J. W. Oliver. No. 1,048,203; Dec. 24; Gaz. vol. 185; p. 931.
Sewing-machine adjustable presser-foot. L. D. Green. No. 1,042,429; Oct. 29; Gaz. vol. 183; p. 1059.
Sewing-machine attachment. D. Gattone. No. 1,021,671; Mar. 26; Sp. p. 5640; Gaz. vol. 176; p. 1015.
Sewing-machine attachment. F. B. Potter. No. 1,023,095; Apr. 9; Sp. p. 2853; Gaz. vol. 177; p. 485.
Sewing-machine attachment. S. Smeja. No. 1,027,009; May 21; Sp. p. 4250; Gaz. vol. 178; p. 724.
Sewing-machine attachment. W. G. Dunham. No. 1,029,917; June 18; Sp. p. 4046; Gaz. vol. 179; p. 703.
Sewing-machine attachment. H. L. Lamb. No. 1,035,121; Aug. 6; Gaz. vol. 181; p. 239.
Sewing-machine attachment. E. M. Clark and J. D. Oliphant. No. 1,044,492; Nov. 19; Gaz. vol. 184; p. 564.
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Sewing-machine attachment. M. Miller, J. Bliden, and M. Smith. No. 1,048,720; Dec. 31; Gaz. vol. 185; p. 1147.
Sewing-machine attachment, Chain-stitch-. F. La Chapelle. No. 1,030,736; June 25; Sp. p. 6039; Gaz. vol. 179; p. 1029.
Sewing machine, Bead-. J. A. Groebli. No. 1,041,780; Oct. 22; Gaz. vol. 183; p. 813.
Sewing machine, Belt-. P. Heldmann. No. 1,015,438; Jan. 23; Sp. p. 5188; Gaz. vol. 174; p. 892.
Sewing-machine, Blindstitch. W. Zabel. No. 1,031,767; July 9; Gaz. vol. 180; p. 361.
Sewing-machine bobbin-case. J. C. Ringe. No. 1,026,926; May 21; Sp. p. 4049; Gaz. vol. 178; p. 695.
Sewing-machine bobbin-holding device, Lock-stitch-. J. E. Thayer. No. 1,024,708; Apr. 30; Sp. p. 6400; Gaz. vol. 177; p. 1127.
Sewing-machine bobbin-holding device, Lock-stitch-. W. C. Meyer. No. 1,048,565; Dec. 31; Gaz. vol. 185; p. 1092.
Sewing-machine bobbin-winder. J. D. Karle. No. 1,014,483; Jan. 9; Sp. p. 3068; Gaz. vol. 174; p. 510.
Sewing machine, Book-. L. Egger. No. 1,033,306; July 23; Gaz. vol. 180; p. 967.
Sewing-machine brake attachment. C. E. Johnson. No. 1,027,339; May 21; Sp. p. 4965; Gaz. vol. 178; p. 836.
Sewing-machine brake mechanism. J. L. Kleinman. No. 1,021,750; Mar. 26; Sp. p. 5808; Gaz. vol. 176; p. 1042.
Sewing machine, Button-. C. M. Horton. No. 1,020,949; Mar. 19; Sp. p. 4122; Gaz. vol. 176; p. 719.
Sewing machine, Buttonhole-. B. T. Leveque. No. 1,019,667; Mar. 5; Sp. p. 1443; Gaz. vol. 176; p. 223.
Sewing machine, Buttonhole-. J. Kiewicz. No. 1,021,739; Mar. 26; Sp. p. 5778; Gaz. vol. 176; p. 1037.
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Sewing machine, Buttonhole-. J. Kiewicz. No. 1,030,589; June 25; Sp. p. 5618; Gaz. vol. 179; p. 975.
Sewing machine, Buttonhole-. J. G. Greene and L. F. A. B. Büchner. No. 1,030,998; July 2; Gaz. vol. 180; p. 52.
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Sewing machine, Buttonhole-. F. A. Read. No. 1,048,210; Dec. 24; Gaz. vol. 185; p. 933.
Sewing-machine buttonhole attachment. E. J. Boyler, P. R. and H. M. Greist. No. 1,030,276; June 25; Sp. p. 4821; Gaz. vol. 179; p. 863.
Sewing-machine buttonhole attachment. E. J. Boyler, P. R. and H. M. Greist. No. 1,035,942; Aug. 20; Gaz. vol. 181; p. 589.
Sewing-machine cabinet and desk, Combined. R. A. Scranton. No. 1,047,996; Dec. 24; Gaz. vol. 185; p. 861.
Sewing-machine cloth-presser. W. R. Abercrombie. No. 1,016,597; Feb. 6; Sp. p. 840; Gaz. vol. 175; p. 126.
Sewing-machine cloth-presser. J. S. Finch. No. 1,025,460; May 7; Sp. p. 790; Gaz. vol. 178; p. 123.
Sewing-machine cord-laying device. E. B. Allen. No. 1,039,241; Sept. 24; Gaz. vol. 182; p. 785.
Sewing-machine cording attachment, Buttonhole-. F. M. Kennedy. No. 1,025,574; May 7; Sp. p. 1054; Gaz. vol. 178; p. 163.
Sewing-machine cover-plate. R. G. Woodward. No. 1,034,944; Aug. 6; Gaz. vol. 181; p. 182.
Sewing-machine drip-pan. E. B. Allen. No. 1,023,351; Apr. 16; Sp. p. 3422; Gaz. vol. 177; p. 611.
Sewing-machine driving connection. A. A. Merritt. No. 1,041,657; Oct. 15; Gaz. vol. 183; p. 734.
Sewing-machine edge-guide. W. H. Stedman. No. 1,044,937; Nov. 19; Gaz. vol. 184; p. 719.
Sewing-machine embroidering attachment. J. D. Karle. No. 1,018,622; Feb. 27; Sp. p. 5334; Gaz. vol. 175; p. 926.
Sewing-machine fan attachment. W. J. White. No. 1,015,367; Jan. 23; Sp. p. 5030; Gaz. vol. 174; p. 868.
Sewing-machine fan attachment. R. C. Landers. No. 1,027,259; May 21; Sp. p. 4802; Gaz. vol. 178; p. 810.
Sewing-machine feeding mechanism. C. F. Gray. No. 1,014,298; Jan. 9; Sp. p. 2679; Gaz. vol. 174; p. 447.
Sewing-machine feeding mechanism. C. F. Gray. No. 1,017,145; Feb. 13; Sp. p. 2037; Gaz. vol. 175; p. 350.
Sewing-machine feeding mechanism. F. S. Woodhead. No. 1,020,068; Mar. 12; Sp. p. 2260; Gaz. vol. 176; p. 389.
Sewing-machine feeding mechanism. J. O. Huffman and E. J. Lauffer. No. 1,025,139; May 7; Sp. p. 60; Gaz. vol. 178; p. 11.
Sewing-machine feeding mechanism. A. A. Merritt. No. 1,041,658; Oct. 15; Gaz. vol. 183; p. 734.
Sewing-machine feeding mechanism. J. S. Finch. No. 1,042,333; Oct. 22; Gaz. vol. 183; p. 997
Sewing-machine feeding mechanism. J. C. Ringe. No. 1,047,136; Dec. 10; Gaz. vol. 185; p. 503.
Sewing machine, Filled-sack-. G. E. and E. D. Scott. No. 1,018,133; Feb. 20; Sp. p. 4229; Gaz. vol. 175; p. 727.
Sewing machine, Filled-sack-. G. E. and E. D. Scott. No. 1,026,833; May 21; Sp. p. 3829; Gaz. vol. 178; p. 662.
Sewing-machine folder. J. P. Weis and L. Krug. No. 1,040,825; Oct. 8; Gaz. vol. 183; p. 423.
Sewing-machine for finishing buttonholes. J. Kiewicz. No. 1,047,537; Dec. 17; Gaz. vol. 185; p. 675.
Sewing-machine for leather. C. J. Oberg. No. 1,037,513; Sept. 3; Gaz. vol. 182; p. 115.
Sewing-machine gage mechanism, Shoe-. E. E. Orr. No. 1,034,822; Aug. 6; Gaz. vol. 181; p. 142.
Sewing-machine grooving device, Shoe-. F. E. Beckman. No. 1,030,767; June 25; Sp. p. 6124; Gaz. vol. 179; p. 1040.
Sewing-machine guide. A. Rontke. No. 1,023,335; Apr. 16; Sp. p. 3396; Gaz. vol. 177; p. 606.
Sewing-machine guide. F. S. Woodhead. No. 1,048,779; Dec. 31; Gaz. vol. 185; p. 1168.
Sewing-machine, Hand. O. D. Kies. No. 1,017,262; Feb. 13; Sp. p. 2299; Gaz. vol. 175; p. 391.
Sewing-machine hemming attachment. W. Nicholson. No. 1,044,413; Nov. 12; Gaz. vol. 184; p. 508.
Sewing-machine, Inseam. E. E. Winkley. No. 1,030,043; June 18; Sp. p. 4306; Gaz. vol. 179; p. 744.
Sewing-machine lamp-support. E. Schaak. No. 1,047,306; Dec. 17; Gaz. vol. 185; p. 595.
Sewing machine, Lock-stitch shoe-. F. La Chapelle. No. 1,048,549; Dec. 31; Gaz. vol. 185; p. 1087.
Sewing-machine loop-taker. J. S. Finch. No. 1,048,672; Dec. 31; Gaz. vol. 185; p. 1131.
Sewing-machine looper mechanism. H. Briggs. No. 1,030,804; June 25; Sp. p. 6244; Gaz. vol. 179; p. 1054.
Sewing-machine looper mechanism. A. B. Tabor. No. 1,041,698; Oct. 15; Gaz. vol. 183; p. 747.
Sewing machine, Mantle-. S. Cohn. No. 1,046,269; Dec. 3; Gaz. vol. 185; p. 164.
Sewing-machine multiple-tuck folder. J. Douglas. No. 1,024,317; Apr. 23; Sp. p. 5472; Gaz. vol. 177; p. 959.
Sewing-machine needle. A. Carson. No. 1,017,247; Feb. 13; Sp. p. 2271; Gaz. vol. 175; p. 386.
Sewing-machine needle. A. P. Myer. No. 1,024,416; Apr. 23; Sp. p. 5684; Gaz. vol. 177; p. 990.
Sewing-machine needle-bar mechanism. J. C. Ringe. No. 1,020,057; Mar. 12; Sp. p. 2230; Gaz. vol. 176; p. 385.
Sewing-machine, Ornamental-stitch. V. J. Van Horn. No. 1,046,510; Dec. 10; Gaz. vol. 185; p. 287.
Sewing-machine, Ornamental-stitch. V. J. Van Horn. No. 1,046,905; Dec. 10; Gaz. vol. 185; p. 424.
Sewing-machine, Ornamental-stitch. V. J. Van Horn. No. 1,048,916; Dec. 31; Gaz. vol. 185; p. 1214.
Sewing-machine, Overseaming. A. Grieb. No. 1,016,488; Feb. 6; Sp. p. 573; Gaz. vol. 175; p. 89.
Sewing-machine, Overseaming. A. H. De Voe. No. 1,026,910; May 21; Sp. p. 4016; Gaz. vol. 178; p. 689.
Sewing-machine overseaming mechanism. J. T. Hogan. No. 1,023,314; Apr. 16; Sp. p. 3360; Gaz. vol. 177; p. 599.
Sewing-machine presser-foot. J. P. Weis. No. 1,016,462; Feb. 6; Sp. p. 516; Gaz. vol. 175; p. 80.
Sewing-machine presser-foot. G. S. Savignac and C. E. Myers. No. 1,016,902; Feb. 6; Sp. p. 1482; Gaz. vol. 175; p. 229.
Sewing-machine presser-foot. R. K. Hohmann. No. 1,036,845; Aug. 27; Gaz. vol. 181; p. 932.
Sewing-machine presser-foot. R. Taubert. No. 1,046,404; Dec. 3; Gaz. vol. 185; p. 212.
Sewing-machine presser-foot lifter, Automatic. D. Schuler. No. 1,044,695; Nov. 19; Gaz. vol. 184; p. 637.
Sewing-machine presser-foot mechanism. O. E. Brown. No. 1,014,283; Jan. 9; Sp. p. 2650; Gaz. vol. 174; p. 441.
Sewing-machine presser-foot mechanism. J. B. Hadaway. No. 1,030,582; June 25; Sp. p. 5605; Gaz. vol. 179; p. 973.

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Sewing-machine pull-off. A. Boyd. No. 1,021,399; Mar. 26; Sp. p. 5109; Gaz. vol. 176; p. 924.
Sewing-machine ruffler. E. J. Boyler. No. 1,041,730; Oct. 22; Gaz. vol. 183; p. 794.
Sewing-machine ruffler. H. M. Greist. No. 1,043,097; Nov. 5; Gaz. vol. 184; p. 17.
Sewing-machine ruffler. H. M. Greist and E. J. Boyler. No. 1,044,645; Nov. 19; Gaz. vol. 184; p. 618.
Sewing machine, Running-stitch-. H. Jonson. No. 1,023,427; Apr. 16; Sp. p. 3571; Gaz. vol. 177; p. 635.
Sewing-machine seam-trimmer and edge-binder. W. R. Abercrombie. No. 1,015,922; Jan. 30; Sp. p. 6222; Gaz. vol. 174; p. 1085.
Sewing machine, Shoe-. W. C. Meyer. No. 1,017,440; Feb. 13; Sp. p. 2674; Gaz. vol. 175; p. 455.
Sewing machine, Shoe-. J. V. Allen. No. 1,027,791; May 28; Sp. p. 5886; Gaz. vol. 178; p. 1024.
Sewing machine, Shoe-. A. B. Fowler. No. 1,029,920; June 18; Sp. p. 4054; Gaz. vol. 179; p. 704.
Sewing machine, Shoe-. L. Goddu. No. 1,030,995; July 2; Gaz. vol. 180; p. 51.
Sewing machine, Shoe-. G. H. Clark. No. 1,043,756; Nov. 5; Gaz. vol. 184; p. 250.
Sewing machine, Shoe-. W. C. Meyer. No. 1,048,719; Dec. 31; Gaz. vol. 185; p. 1146.
Sewing-machine shuttle. F. H. Perry. No. 1,023,033; Apr. 9; Sp. p. 2715; Gaz. vol. 177; p. 464.
Sewing-machine shuttle. H. A. Bates. No. 1,029,257; June 11; Sp. p. 2572; Gaz. vol. 179; p. 436.
Sewing-machine spool-holder. E. M. Elsden, (now by marriage E. M. Jones.) No. 1,022,185; Apr. 2; Sp. p. 917; Gaz. vol. 177; p. 146.
Sewing-machine stay-guide. C. F. Gray. No. 1,025,463; May 7; Sp. p. 796; Gaz. vol. 178; p. 124.
Sewing-machine stitch-forming mechanism. C. A. Dearborn. No. 1,018,885; Feb. 27; Sp. p. 5881; Gaz. vol. 175; p. 1014.
Sewing-machine stop mechanism. J. W. Roberts and A. P. Brewster. No. 1,042,602; Oct. 29; Gaz. vol. 183; p. 1120.
Sewing-machine stop mechanism, Buttonhole-. L. J. Schaeffer. No. 1,025,650; May 7; Sp. p. 1218; Gaz. vol. 178; p. 187.
Sewing-machine stop-motion mechanism. D. Noble and J. S. Finch. No. 1,047,111; Dec. 10; Gaz. vol. 185; p. 492.
Sewing machine, Straw-hat-. W. Jasper. No. 1,034,459; Aug. 6; Gaz. vol. 181; p. 19.
Sewing-machine strip folding and guiding attachment. A. Laubscher. No. 1,015,967; Jan. 30; Sp. p. 6321; Gaz. vol. 174; p. 1100.
Sewing-machine strip folding and guiding attachment. A. H. De Voe. No. 1,024,316; Apr. 23; Sp. p. 5468; Gaz. vol. 177; p. 959.
Sewing-machine table. T. Kundtz and A. Schuster. No. 1,026,400; May 14; Sp. p. 2893; Gaz. vol. 178; p. 480.
Sewing-machine take-up. F. J. Freese. No. 1,029,921; June 18; Sp. p. 4056; Gaz. vol. 179; p. 704.
Sewing-machine take-up. W. J. Butler. No. 1,038,282; Sept. 10; Gaz. vol. 182; p. 404.
Sewing-machine take-up and thread-measurer. G. S. Savignac and C. E. Myers. No. 1,016,900; Feb. 6; Sp. p. 1474; Gaz. vol. 175; p. 228.
Sewing-machine tension. S. A. Davis. No. 1,014,050; Jan. 9; Sp. p. 2156; Gaz. vol. 174; p. 360.
Sewing-machine tension device. J. T. Hogan. No. 1,013,163; Jan. 2; Sp. p. 151; Gaz. vol. 174; p. 26.
Sewing-machine tension device. F. J. Freese. No. 1,029,923; June 18; Sp. p. 4061; Gaz. vol. 179; p. 705.
Sewing-machine tension device. W. C. Meyer. No. 1,030,743; June 25; Sp. p. 6056; Gaz. vol. 179; p. 1032.
Sewing-machine tension mechanism. W. C. Meyer. No. 1,030,742; June 25; Sp. p. 6051; Gaz. vol. 179; p. 1031.
Sewing-machine thread-controlling mechanism. C. F. Gray. No. 1,020,090; Mar. 12; Sp. p. 2305; Gaz. vol. 176; p. 395.
Sewing-machine thread-cutting attachment. R. L. Coley. No. 1,047,887; Dec. 17; Gaz. vol. 185; p. 798.
Sewing-machine thread-cutting device. R. L. Lyons. No. 1,021,156; Mar. 26; Sp. p. 4563; Gaz. vol. 176; p. 839.
Sewing-machine thread-cutting mechanism. D. Mills. No. 1,016,027; Jan. 30; Sp. p. 6446; Gaz. vol. 174; p. 1122.
Sewing-machine thread-cutting mechanism. D. Mills. No. 1,016,226; Jan. 30; Sp. p. 6836; Gaz. vol. 174; p. 1188.
Sewing-machine thread-cutting mechanism. E. B. Allen and J. C. Ringe. No. 1,028,655; June 4; Sp. p. 1275; Gaz. vol. 179; p. 196.
Sewing-machine thread-cutting mechanism. A. Cupps and C. R. Hinz. No. 1,046,274; Dec. 3; Gaz. vol. 185; p. 166.
Sewing-machine thread-guide. R. J. Plaatje. No. 1,034,832; Aug. 6; Gaz. vol. 181; p. 145.
Sewing-machine thread-supporting device. J. H. Foote. No. 1,033,165; July 23; Gaz. vol. 180; p. 918.
Sewing-machine thread take-up. W. R. Blair. (Reissue.) No. 13,381; Mar. 12; Sp. p. 2922; Gaz. vol. 176; 494.
Sewing-machine thread-take-up mechanism. W. R. Blair. No. 1,048,442; Dec. 24; Gaz. vol. 185; p. 1011.
Sewing-machine thread-treating device. G. S. Savignac and C. E. Myers. No. 1,016,901; Feb. 6; Sp. p. 1479; Gaz. vol. 175; p. 228.
Sewing-machine thread-trimming mechanism. A. R. Wood. No. 1,013,252; Jan. 2; Sp. p. 356; Gaz. vol. 174; p. 57.
Sewing-machine thread-waxing device. A. Eppler. No. 1,015,304; Jan. 23; Sp. p. 4884; Gaz. vol. 174; p. 846.
Sewing-machine threading means. M. E. B. Williams. No. 1,026,483; May 14; Sp. p. 3075; Gaz. vol. 178; p. 507.
Sewing-machine trimming device. L. Onderdonk. No. 1,048,204; Dec. 24; Gaz. vol. 185; p. 931.
Sewing-machine trimming mechanism. J. P. Weis. No. 1,016,590; Feb. 6; Sp. p. 825; Gaz. vol. 175; p. 123.
Sewing-machine trimming mechanism. J. P. Weis. No. 1,025,552; May 7; Sp. p. 1001; Gaz. vol. 178; p. 155.
Sewing-machine tuck-creaser. F. W. Beckert. No. 1,046,250; Dec. 3; Gaz. vol. 185; p. 157.
Sewing-machine tuck-creaser or tucker. L. M. Ford. No. 1,037,608; Sept. 3; Gaz. vol. 182; p. 144.
Sewing-machine welt-guide. F. J. Freese. No. 1,029,922; June 18; Sp. p. 4058; Gaz. vol. 179; p. 704.
Sewing-machine welt-guide, Shoe-. A. Eppler. No. 1,030,721; June 25; Sp. p. 6005; Gaz. vol. 179; p. 1024.
Sewing-machine welt-trimming attachment. M. K. Golden. No. 1,049,078; Dec. 31; Gaz. vol. 185; p. 1270.
Sewing-machine work-feeding mechanism. A. R. Schoenky. No. 1,032,303; July 9; Gaz. vol. 180; p. 543.
Sewing-machine work-holder. N. Van Deventer-Smith and J. E. Van Deventer. No. 1,020,581; Mar. 19; Sp. p. 3352; Gaz. vol. 176; p. 596.
Sewing-machine work-holder, Button-. G. S. Gatchell. No. 1,036,603; Aug. 27; Gaz. vol. 181; p. 852.
Sewing-machine work holding and feeding means. C. A. Dearborn. No. 1,025,082; Apr. 30; Sp. p. 7157; Gaz. vol. 177; p. 1256.
Sewing-machine, Zigzag-stitch. C. F. Gray. No. 1,020,089; Mar. 12; Sp. p. 2303; Gaz. vol. 176; p. 395.
Sewing-machines, Device for controlling the upper threads of. D. W. Corey. No. 1,041,597; Oct. 15; Gaz. vol. 183; p. 712.
Sewing-machines, Guiding mechanism for. J. L. Kimball. No. 1,026,095; May 14; Sp. p. 2228; Gaz. vol. 178; p. 376.
Sewing-machines, Hook and eye clamp for. J. K. McComb. No. 1,032,017; July 9; Gaz. vol. 180; p. 446.
Sewing-machines, Throw-out device for reciprocating-shuttle. J. O. Huffman and E. J. Lauffer. No. 1,020,099; Mar. 12; Sp. p. 2332; Gaz. vol. 176; p. 398.
Sewing machines, Welt-channeling attachment for sole-. C. J. Cady and J. E. Thayer. No. 1,017,380; Feb. 13; Sp. p. 2536; Gaz. vol. 175; p. 430.
Sewing-rack. L. Jennings. No. 1,028,732; June 4; Sp. p. 1427; Gaz. vol. 179; p. 222.
Sewing upholstered or tufted pads or cushions, Machine for. G. B. Brink. No. 1,042,641; Oct. 29; Gaz. vol. 183; p. 1134.
Sewing water-tight inseams, Welt-guide for. J. E. McPherson and E. E. Orr. No. 1,017,059; Feb. 13; Sp. p. 1843; Gaz. vol. 175; p. 320.
Sextant and the like. L. Becker. No. 1,041,575; Oct. 15; Gaz. vol. 183; p. 706.
Shade. J. H. Ward. No. 1,017,934; Feb. 20; Sp. p. 3791; Gaz. vol. 175; p. 658.
Shade, Adjustable window-. D. H. Harnly. No. 1,044,650; Nov. 19; Gaz. vol. 184; p. 620.
Shade adjuster, Window-. A. H. and W. Fechner. No. 1,016,256; Feb. 6; Sp. p. 27; Gaz. vol. 175; p. 6.
Shade adjuster, Window-. H. Oglesby. No. 1,017,452; Feb. 13; Sp. p. 2718; Gaz. vol. 175; p. 457.
Shade adjuster, Window-. C. Hotaling. No. 1,020,,605; Mar. 19; Sp. p. 3396; Gaz. vol. 176; p. 603.
Shade adjuster, Window-. H. M. Schloss. No. 1,022,704; Apr. 9; Sp. p. 2035; Gaz. vol. 177; p. 352.
Shade adjuster, Window-. N. Baum. No. 1,045,801; Nov. 26; Gaz. vol. 184; p. 1050.
Shade-adjusting means, Curtain-. B. G. Foster. No. 1,025,565; May 7; Sp. p. 1035; Gaz. vol. 178; p. 160.
Shade and curtain bracket, Adjustable. H. E. Wirebaugh. No. 1,048,777; Dec. 31; Gaz. vol. 185; p. 1167.
Shade and curtain bracket, Adjustable window. J. A. Fisher. No. 1,034,990; Aug. 6; Gaz. vol. 181; p. 197.
Shade and curtain bracket, Combined. P. E. Tardiff. No. 1,027,931; May 28; Sp. p. 6246; Gaz. vol. 178; p. 1073.
Shade and curtain fixture. K. Berven. No. 1,024,715; Apr. 30; Sp. p. 6417; Gaz. vol. 177; p. 1130.
Shade and curtain fixture for windows, Combination. J. A. Johnson. No. 1,019,796; Mar. 12; Sp. p. 1705; Gaz. vol. 176; p. 297.
Shade and curtain fixture, Window. J. D. Gillenwater. No. 1,024,255; Apr. 23; Sp. p. 5363; Gaz. vol. 177; p. 940.
Shade and curtain hanger. D. G. Munday. No. 1,016,429; Feb. 6; Sp. p. 423; Gaz. vol. 175; p. 67.
Shade and curtain hanger. P. J. Eveleigh. No. 1,022,187; Apr. 2; Sp. p. 919; Gaz. vol. 177; p. 147.
Shade and curtain hanger. W. O. Smyth. No. 1,033,747; July 23; Gaz. vol. 180; p. 1109.
Shade and curtain hanger. C. McDonner. No. 1,039,566; Sept. 24; Gaz. vol. 182; p. 900.

Alphabetical list of inventions—Continued.

Shade and curtain hanger, Combination. E. E. Moore. No. 1,035,626; Aug. 13; Gaz. vol. 181; p. 444.
Shade and curtain holder. C. F. Haase. No. 1,021,596; Mar. 26; Sp. p. 5522; Gaz. vol. 176; p. 991.
Shade and curtain-pole supporting bracket, Window-. H. B. Nylund. No. 1,035,995; Aug. 20; Gaz. vol. 181; p. 606.
Shade and curtain support, Adjustable window. J. E. Pettijohn and L. D. Stafford. No. 1,045,881; Dec. 3; Gaz. vol. 185; p. 29.
Shade and curtain support, Window. J. Sterner. No. 1,031,824; July 9; Gaz. vol. 180; p. 381.
Shade-bracket. J. M. King. No. 1,029,373; June 11; Sp. p. 2840; Gaz. vol. 179; p. 477.
Shade-bracket. C. D. Reed. No. 1,037,186; Aug. 27; Gaz. vol. 181; p. 1045.
Shade bracket, Adjustable window-. T. H. Edwards. No. 1,039,666; Sept. 24; Gaz. vol. 182; p. 933.
Shade bracket, Window-. A. H. Weir and C. H. Smith. No. 1,020,528; Mar. 19; Sp. p. 3224; Gaz. vol. 176; p. 577.
Shade bracket, Window-. A. W. Montgomery. No. 1,027,270; May 21; Sp. p. 4826; Gaz. vol. 178; p. 813.
Shade bracket, Window-. T. Gress and B. Moline. No. 1,034,228; July 30; Gaz. vol. 180; p. 1305.
Shade bracket, Window-. D. A. Roberts. No. 1,036,717; Aug. 27; Gaz. vol. 181; p. 889.
Shade bracket, Window-. W. R. Sanford. No. 1,042,148; Oct. 22; Gaz. vol. 183; p. 937.
Shade-cloth, Rolling-off machine for. L. B. Girard. No. 1,022,024; Apr. 2; Sp. p. 781; Gaz. vol. 177; p. 91.
Shade-controlling device. Window-. E. E. Harris. No. 1,044,453; Nov. 12; Gaz. vol. 184; p. 520.
Shade-fixture. A. S. Gornto. No. 1,018,108; Feb. 20; Sp. p. 4175; Gaz. vol. 175; p. 718.
Shade-fixture. T. L. Walter. No. 1,019,863; Mar. 12; Sp. p. 1829; Gaz. vol. 176; p. 320.
Shade-fixture. T. L. Walter. No. 1,023,345; Apr. 16; Sp. p. 3413; Gaz. vol. 177; p. 609.
Shade-fixture. R. E. Swezey. No. 1,033,636; July 23; Gaz. vol. 180; p. 1075.
Shade-fixture, Adjustable. T. P. Cave and J. M. Buck. No. 1,023,812; Apr. 23; Sp. p. 4342; Gaz. vol. 177; p. 785.
Shade fixture, Adjustable window-. H. E. Gifford. No. 1,042,213; Oct. 22; Gaz. vol. 183; p. 958.
Shade fixture, Vertically-adjustable window-. S. Menuskin. No. 1,037,285; Sept. 3; Gaz. vol. 182; p. 36.
Shade fixture, Window-. J. B. Hogle. No. 1,018,110; Feb. 20; Sp. p. 4178; Gaz. vol. 175; p. 719.
Shade fixture, Window-. M. Tonti. No. 1,025,597; May 7; Sp. p. 1100; Gaz. vol. 178; p. 170.
Shade fixture, Window-. W. G. Templeton. No. 1,031,888; July 9; Gaz. vol. 180; p. 404.
Shade fixture, Window-. F. J. Schu. No. 1,037,549; Sept. 3; Gaz. vol. 182; p. 126.
Shade fixture, Window-. W. R. Parsons. No. 1,040,399; Oct. 8; Gaz. vol. 183; p. 275.
Shade-hanger. T. Jones. No. 1,043,237; Nov. 5; Gaz. vol. 184; p. 68.
Shade hanger, Adjustable window-. J. W. McKinley. No. 1,048,089; Dec. 24; Gaz. vol. 185; p. 893.
Shade hanger, Window-. W. B. Caswell. No. 1,043,000; Oct. 29; Gaz. vol. 183; p. 1257.
Shade-holder. A. C. Rader. No. 1,015,976; Jan. 30; Sp. p. 6341; Gaz. vol. 174; p. 1103.
Shade-holder. E. E. Forstrom. No. 1,018,241; Feb. 20; Sp. p. 4454; Gaz. vol. 175; p. 765.
Shade-holder. E. E. Frederick. No. 1,020,689; Mar. 19; Sp. p. 3582; Gaz. vol. 176; p. 630.
Shade-holder. G. W. Goodridge. No. 1,022,234; Apr. 2; Sp. p. 1028; Gaz. vol. 177; p. 164.
Shade-holder. W. S. Stapley. No. 1,022,895; Apr. 9; Sp. p. 2431; Gaz. vol. 177; p. 415.
Shade-holder. P. Huston. No. 1,027,848; May 28; Sp. p. 6053; Gaz. vol. 178; p. 1045.
Shade-holder. G. W. Goodridge. No. 1,032,821; July 16; Gaz. vol. 180; p. 764.
Shade-holder. R. E. Ewing. No. 1,036,819; Aug. 27; Gaz. vol. 181; p. 923.
Shade-holder. W. G. Schmucker. No. 1,039,198; Sept. 24; Gaz. vol. 182; p. 769.
Shade-holder. H. Goodfriend. No. 1,039,519; Sept. 24; Gaz. vol. 182; p. 883.
Shade-holder. J. Stoddart. No. 1,039,676; Sept. 24; Gaz. vol. 182; p. 936.
Shade-holder. C. A. Terry. No. 1,042,839; Oct. 29; Gaz. vol. 183; p. 1202.
Shade-holder. G. B. Lynch. No. 1,045,417; Nov. 26; Gaz. vol. 184; p. 915.
Shade-holder. J. C. Steese. No. 1,045,628; Nov. 26; Gaz. vol. 184; p. 992.
Shade-holder. G. B. Thomas. No. 1,048,377; Dec. 24; Gaz. vol. 185; p. 990.
Shade holder, Window-. H. Newton. No. 1,045,734; Nov. 26; Gaz. vol. 184; p. 1029.
Shade holder, Window-. A. G. Harris. No. 1,048,691; Dec. 31; Gaz. vol. 185; p. 1138.
Shade or curtain fixture. A. G. Watkins. No. 1,041,537; Oct. 15; Gaz. vol. 183; p. 695.
Shade or globe holder. L. W. Young. No. 1,030,370; June 25; Sp. p. 5038; Gaz. vol. 179; p. 898.
Shade-roll holders, Adjustable window-. F. Ferrara. No. 1,017,659; Feb. 20; Sp. p. 3113; Gaz. vol. 175; p. 562.
Shade-roller and curtain-hanger, Combined. E. Gerber. No. 1,015,309; Jan. 23; Sp. p. 4895; Gaz. vol. 174; p. 848.
Shade-roller and curtain-holder. S. Chalko. No. 1,013,127; Jan. 2; Sp. p. 77; Gaz. vol. 174; p. 14.
Shade-roller and curtain-pole bracket, Combined. L. O. Garraway. No. 1,036,091; Aug. 20; Gaz. vol. 181; p. 640.
Shade-roller and curtain-rod support. W. W. Glover. No. 1,043,417; Nov. 5; Gaz. vol. 184; p. 132.
Shade-roller and window-curtain fixture, Adjustable. R. A. Kottkay. No. 1,029,198; June 11; Sp. p. 2444; Gaz. vol. 179; p. 416.
Shade-roller appliance. H. Fornelius. No. 1,020,817; Mar. 19; Sp. p. 3855; Gaz. vol. 176; p. 675.
Shade-roller bracket. B. H. Tune. No. 1,046,406; Dec. 3; Gaz. vol. 185; p. 213.
Shade-roller bracket, Adjustable. C. Mason. No. 1,016,641; Feb. 6; Sp. p. 945; Gaz. vol. 175; p. 142.
Shade-roller fitting, Window-. A. Kaiserman. No. 1,019,654; Mar. 5; Sp. p. 1426; Gaz. vol. 176; p. 219.
Shade-roller fixture, Curtain-. J. J. Houlahen. No. 1,019,475; Mar. 5; Sp. p. 1076; Gaz. vol. 176; p. 159.
Shade-roller holder and curtain-pole bracket, Combined. G. W. and A. J. Anderson. No. 1,040,487; Oct. 8; Gaz. vol. 183; p. 304.
Shade-roller lock. A. Husson. No. 1,034,457; Aug. 6; Gaz. vol. 181; p. 19.
Shade-roller spear, Spring-. E. F. Hartshorn. No. 1,039,938; Oct. 1; Gaz. vol. 183; p. 89.
Shade-roller spear, Spring-. E. F. Hartshorn. No. 1,039,939; Oct. 1; Gaz. vol. 183; p. 89.
Shade-roller support. J. Lavigne. No. 1,023,111; Apr. 9; Sp. p. 2888; Gaz. vol. 177; p. 491.
Shade-roller-supporting device. J. W. Battes. No. 1,046,429; Dec. 10; Gaz. vol. 185; p. 256.
Shade-roller-supporting device. J. W. Brewer. No. 1,048,936; Dec. 31; Gaz. vol. 185; p. 1222.
Shade roller, Window-. A. Kaiserman. No. 1,019,653; Mar. 5; Sp. p. 1424; Gaz. vol. 176; p. 219.
Shade-rollers and curtain-poles, Combined support for. C. Leiby. No. 1,042,699; Oct. 29; Gaz. vol. 183; p. 1154.
Shade-streak hack. R. L. Ivey. No. 1,045,105; Nov. 19; Gaz. vol. 184; p. 778.
Shade-support. A. B. Smith. No. 1,040,798; Oct. 8; Gaz. vol. 183; p. 414.
Shade-support, Adjustable. R. E. Dixon. No. 1,032,383; July 16; Gaz. vol. 180; p. 616.
Shade, Window-. A. V. Challinor. No. 1,032,112; July 9; Gaz. vol. 180; p. 477.
Shade, Window-. W. S. Shaft. No. 1,038,005; Sept. 10; Gaz. vol. 182; p. 311.
Shades, Cord-holder for window-. W. B. Caswell. No. 1,029,169; June 11; Sp. p. 2386; Gaz. vol. 179; p. 406.
Shades to rollers, Device for fastening. G. W. Fountain and S. H. Hook. No. 1,040,922; Oct. 8; Gaz. vol. 183; p. 454.
Shades to shade-rollers, Device for attaching. N. L. Mimms. No. 1,041,140; Oct. 15; Gaz. vol. 183; p. 562.
Shaft and tongue, Coupling. C. C. Coulter. No. 1,022,304; Apr. 2; Sp. p. 1150; Gaz. vol. 177; p. 184.
Shaft, Balanced oscillatable. J. F. Webb, Jr. No. 1,033,970; July 30; Gaz. vol. 180; p. 1215.
Shaft-collar. H. T. Hallowell. No. 1,045,283; Nov. 26; Gaz. vol. 184; p. 869.
Shaft-collar. G. B. Jackson. No. 1,045,980; Dec. 3; Gaz. vol. 185; p. 63.
Shaft-coupling. J. A. A. Payen. No. 1,015,906; Jan. 30; Sp. p. 6194; Gaz. vol. 174; p. 1080.
Shaft-coupling. A. Diemer. No. 1,027,644; May 28; Sp. p. 5583; Gaz. vol. 178; p. 976.
Shaft-coupling. U. Haskins. No. 1,031,927; July 9; Gaz. vol. 180; p. 417.
Shaft-coupling. D. H. Hendershot. No. 1,043,229; Nov. 5; Gaz. vol. 184; p. 66.
Shaft-coupling. T. J. Hudson. No. 1,047,811; Dec. 17; Gaz. vol. 185; p. 772.
Shaft-coupling. H. Ruthardt. No. 1,047,841; Dec. 17; Gaz. vol. 185; p. 782.
Shaft-coupling, Automobile. J. N. Bashaw. No. 1,022,999; Apr. 9; Sp p. 2654; Gaz. vol. 177; p. 453.
Shaft-coupling, Compression. C. W. Streeper. No. 1,037,682; Sept. 3; Gaz. vol. 182; p. 171.
Shaft coupling, Conveyer-. B. F. Howland. No. 1,016,748; Feb. 6; Sp. p. 1148; Gaz. vol. 175; p. 177.
Shaft coupling, Spring drive or power. W. Perry and A. S. Jones. No. 1,024,020; Apr. 23; Sp. p. 4814; Gaz. vol. 177; p. 855.
Shaft driving and releasing mechanism. H. Meredith-Jones. No. 1,040,563; Oct. 8; Gaz. vol. 183; p. 331.
Shaft-hanger. P. J. Waller. No. 1,020,629; Mar. 19; Sp. p. 3458; Gaz. vol. 176; p. 611.
Shaft-hanger. A. W. Morris. No. 1,025,289; May 7; Sp. p. 391; Gaz. vol. 178; p. 64.
Shaft-hanger. S. E. Ryder. No. 1,032,244; July 9; Gaz. vol. 180; p. 523.

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Shaft-hanger. O. A. Schmidt. No. 1,043,631; Nov. 5; Gaz. vol. 184; p. 208.
Shaft-heels to shaft-irons, Means for securing curved. J. M. Meyer. No. 1,032,075; July 9; Gaz. vol. 180; p. 465.
Shaft-kilns, Operating. H. L. Doherty. No. 1,034,347; July 30; Gaz. vol. 180; p. 1346.
Shaft, Mechanism for giving intermittent rotation to a. W. H. Gamble. No. 1,042,905; Oct. 29; Gaz. vol. 183; p. 1225.
Shaft-retaining means. J. H. Vinton. No. 1,020,730; Mar. 19; Sp. p. 3673; Gaz. vol. 176; p. 646.
Shaft-straightening machine. T. J. Paine. No. 1,037,301; Sept. 3; Gaz. vol. 182; p. 41.
Shaft-support. J. B. Kloeker. No. 1,021,684; Mar. 26; Sp. p. 5661; Gaz. vol. 176; p. 1019.
Shaft-support and thill-coupling, Combined. I. B. Duncan. No. 1,039,711; Oct. 1; Gaz. vol. 183; p. 13.
Shaft, Vehicle-. T. J. Hoesly. No. 1,031,792; July 9; Gaz. vol. 180; p. 370.
Shaft, Vehicle-. J. B. Finley. No. 1,034,095; July 30; Gaz. vol. 180; p. 1259.
Shaft, Vehicle-. J. E. Fuqua. No. 1,034,994; Aug. 6; Gaz. vol. 181; p. 198.
Shafts, Adjusting device for feed-. E. P. Bullard, Jr. No. 1,024,309; Apr. 23; Sp. p. 5459; Gaz. vol. 177; p. 957.
Shafts, Bearing for vertical drive-. W. Bartholomew. No. 1,028,318; June 4; Sp. p. 556; Gaz. vol. 179; p. 82.
Shafts, Combination-. J. H. Allin. No. 1,046,534; Dec. 10; Gaz. vol. 185; p. 296.
Shafts, Combination-. J. H. Allin. No. 1,046,535; Dec. 10; Gaz. vol. 185; p. 296.
Shafts, &c., Flexible connection for. L. D. Hubbell. No. 1,034,453; Aug. 6; Gaz. vol. 181; p. 18.
Shafts, Locking device for the gates of. G. W. Minto and J. F. McCormick. No. 1,036,504; Aug. 20; Gaz. vol. 181; p. 786.
Shafts, Sinking, lining, and cementing. P. A. Legrand. No. 1,014,656; Jan. 16; Sp. p. 3493; Gaz. vol. 174; p. 599.
Shafts, Tubbing for. W. Breil. No. 1,048,287; Dec. 24; Gaz. vol. 185; p. 959.
Shafting-coupling. W. O. Kennington. No. 1,034,249; July 30; Gaz. vol. 180; p. 1313.
Shafting, Flexible. J. D. Scovel. No. 1,030,544; June 25; Sp. p. 5463; Gaz. vol. 179; p. 960.
Shafting, Flexible. J. R. Plank. No. 1,036,144; Aug. 20; Gaz. vol. 181; p. 660.
Shafting, Flexible. S. D. Bradley. No. 1,042,760; Oct. 29; Gaz. vol. 183; p. 1176.
Shafting, Machinery-. W. J. Stewart, Jr. No. 1,032,163; July 9; Gaz. vol. 180; p. 495.
Shafting machinery. W. J. Muncaster. No. 1,039,992; Oct. 1; Gaz. vol. 183; p. 107.
Shaker, Multicompartment. C. J. Wilk and G. F. Holtz. No. 1,039,236; Sept. 24; Gaz. vol. 182; p. 783.
Shaker-picker. F. H. Emery. No. 1,013,648; Jan. 2; Sp. p. 1228; Gaz. vol. 174; p. 194.
Shank-stiffener. E. E. Winkley. No. 1,030,628; June 25; Sp. p. 5782; Gaz. vol. 179; p. 992.
Shank stiffener and filler, Combined. W. H. Wood. No. 1,049,284; Dec. 31; Gaz. vol. 185; p. 1339.
Shank-trimming machine. G. Goddu. No. 1,018,045; Feb. 20; Sp. p. 4028; Gaz. vol. 175; p. 697.
Shaper. H. J. Averbeck. No. 1,039,079; Sept. 24; Gaz. vol. 182; p. 728.
Shaper-guard. P. Erickson. No. 1,025,866; May 7; Sp. p. 1661; Gaz. vol. 178; p. 261.
Shaper-head, Safety. H. M. Westphal. No. 1,041,931; Oct. 22; Gaz. vol. 183; p. 866.
Shaper-machine. N. M. Denegar. No. 1,016,253; Feb. 6; Sp. p. 20; Gaz. vol. 175; p. 6.
Shaper work-holder. H. E. Morton. No. 1,033,921; July 30; Gaz. vol. 180; p. 1197.
Shapers. Back-rest for draw-cut. H. E. Morton. No. 1,033,922; July 30; Gaz. vol. 180; p. 1197.
Shaping-machine. A. R. Murray. No. 1,023,268; Apr. 16; Sp. p. 3272; Gaz. vol. 177; p. 584.
Shaping-machine. W. F. Zimmermann. No. 1,038,259; Sept. 10; Gaz. vol. 182; p. 396.
Sharpener. H. E. Smallbone. No. 1,041,360; Oct. 15; Gaz. vol. 183; p. 636.
Sharpener attachment for mowers. J. and C. H. Ewe. No. 1,027,114; May 21; Sp. p. 4520; Gaz. vol. 178; p. 761.
Sharpener, Blade-. J. E. Morse. No. 1,024,947; Apr. 30; Sp. p. 6900; Gaz. vol. 177; p. 1212.
Sharpener, Combination ice-skate and lawn-mower. G. W. Gillespie. No. 1,025,393; May 7; Sp. p. 640; Gaz. vol. 178; p. 100.
Sharpener, Disk-. J. B. Moyer. No. 1,028,252; June 4; Sp. p. 419; Gaz. vol. 179; p. 60.
Sharpener, Disk-. C. L. Cassady. No. 1,044,137; Nov. 12; Gaz. vol. 184; p. 412.
Sharpener, Horseshoe-calk. W. Laning. No. 1,035,712; Aug. 13; Gaz. vol. 181; p. 473.
Sharpener, Knife-. R. J. Dearborn. No. 1,015,148; Jan. 16; Sp. p. 4549; Gaz. vol. 174; p. 767.
Sharpener, Knife-. J. A. Seymour. No. 1,027,005; May 21; Sp. p. 4243; Gaz. vol. 178; p. 723.
Sharpener, Knife-. W. A. Hayes. No. 1,034,794; Aug. 6; Gaz. vol. 181; p. 132.
Sharpener, Knife-. J. H. Boye. No. 1,038,484; Sept. 10; Gaz. vol. 182; p. 474.
Sharpener, Knife and scissors. G. S. Miller. No. 1,018,579; Feb. 27; Sp. p. 5258; Gaz. vol. 175; p. 913.
Sharpener, Lawn-mower. A. E. Jernander. No. 1,031,006; July 2; Gaz. vol. 180; p. 55.
Sharpener, Lawn-mower. M. Johansen. No. 1,047,814; Dec. 17; Gaz. vol. 185; p. 773.
Sharpener, Pick-. J. N. Smothers and J. N. Carroll. No. 1,017,697; Feb. 20; Sp. p. 3188; Gaz. vol. 175; p. 574.
Sharpener, Razor-. J. A. Beamisderfer. No. 1,014,745; Jan. 16; Sp. p. 3684; Gaz. vol. 174; p. 629.
Sharpener, Razor-. E. Tessmer. No. 1,018,382; Feb. 20; Sp. p. 4742; Gaz. vol. 175; p. 812.
Sharpener, Razor-. A. E. Latta. No. 1,019,261; Mar. 5; Sp. p. 556; Gaz. vol. 176; p. 89.
Sharpener, Razor-. F. H. Hammond. No. 1,034,616; Aug. 6; Gaz. vol. 181; p. 70.
Sharpener, Razor-. C. Jeremias. No. 1,038,378; Sept. 10; Gaz. vol. 182; p. 436.
Sharpener, Sickle-. C. O. Hathaway and F. W. Huffaker. No. 1,018,051; Feb. 20; Sp. p. 4043; Gaz. vol. 175; p. 699.
Sharpener, Skate-runner. T. Elsum. No. 1,022,665; Apr. 9; Sp. p. 1928; Gaz. vol. 177; p. 336.
Sharpener, Tool-. L. Johnson. No. 1,016,072; Jan. 30; Sp. p. 6562; Gaz. vol. 174; p. 1139.
Sharpening and gumming machine, Saw. R. V. Pearce. No. 1,027,428; May 28; Sp. p. 5166; Gaz. vol. 178; p. 905.
Sharpening apparatus for knives, scissors, &c. W. B. Nilsson. No. 1,042,253; Oct. 22; Gaz. vol. 183; p. 971.
Sharpening compound, Razor-. L. Stocker. No. 1,027,927; May 28; Sp. p. 6240; Gaz. vol. 178; p. 1072.
Sharpening device. P. E. Bird. No. 1,013,115; Jan. 2; Sp. p. 46; Gaz. vol. 174; p. 9.
Sharpening device. P. Esser. No. 1,018,177; Feb. 20; Sp. p. 4329; Gaz. vol. 175; p. 743.
Sharpening device. E. M. Mallette. No. 1,025,412; May 7; Sp. p. 670; Gaz. vol. 178; p. 105.
Sharpening device. E. F. Altman. No. 1,035,072; Aug. 6; Gaz. vol. 181; p. 223.
Sharpening device for bush-hammers. C. K. George and T. J. Murphy. No. 1,045,016; Nov. 19; Gaz. vol. 184; p. 747.
Sharpening device for knives of meat-slicing machines. H. Stukart. No. 1,039,210; Sept. 24; Gaz. vol. 182; p. 773.
Sharpening device for meat-slicing-machine knives, &c. H. R. Goodfellow. No. 1,033,795; July 30; Gaz. vol. 180; p. 1151.
Sharpening device, Knife-. G. B. Jackson. No. 1,032,910; July 16; Gaz. vol. 180; p. 793.
Sharpening device, Knife-. L. C. Johnson. No. 1,041,631; Oct. 15; Gaz. vol. 183; p. 724.
Sharpening device, Razor-. F. K. Fassett. No. 1,044,036; Nov. 12; Gaz. vol. 184; p. 378.
Sharpening gravers or other tools, Holder for. A. A. Thomas. No. 1,046,508; Dec. 10; Gaz. vol. 185; p. 286.
Sharpening holder, Tool-. J. M. Hance. No. 1,047,126; Dec. 10; Gaz. vol. 185; p. 499.
Sharpening implement. G. B. N. Dow and R. E. Walsh. No. 1,016,615; Feb. 6; Sp. p. 888; Gaz. vol. 175; p. 132.
Sharpening implement, Tool-. G. H. Johnson. No. 1,030,662; June 25; Sp. p. 5868; Gaz. vol. 179; p. 1003.
Sharpening-machine. F. Ries. No. 1,015,075; Jan. 16; Sp. p. 4414; Gaz. vol. 174; p. 742.
Sharpening machine, Automatic razor-blade-. H. C. Wilson. No. 1,028,170; June 4; Sp. p. 259; Gaz. vol. 179; p. 31.
Sharpening machine, Drill-. J. W. Coyle. No. 1,016,551; Feb. 6; Sp. p. 749; Gaz. vol. 175; p. 110.
Sharpening-machine gripping-vise, Drill-bit-. J. G. Leyner. No. 1,040,221; Oct. 1; Gaz. vol. 183; p. 184.
Sharpening machine, Razor-. E. Tessmer. No. 1,022,383; Apr. 2; Sp. p. 1309; Gaz. vol. 177; p. 212.
Sharpening machine, Razor-. P. Amadeo. No. 1,024,815; Apr. 30; Sp. p. 6624; Gaz. vol. 177; p. 1165.
Sharpening machine, Safety-razor-. C. C. Muth. No. 1,048,571; Dec. 31; Gaz. vol. 185; p. 1094.
Sharpening machine, Tool-. H. P. Caswell. No. 1,026,623; May 14; Sp. p. 3356; Gaz. vol. 178; p. 553.
Sharpening machines, Rest for saw-. J. P. Hedstrom. No. 1,022,479; Apr. 9; Sp. p. 1532; Gaz. vol. 177; p. 275.
Sharpening plowshares, Machine for. A. C. Case. No. 1,014,119; Jan. 9; Sp. p. 2302; Gaz. vol. 174; p. 384.
Sharpening safety-razors, Machine for. A. E. Hill. No. 1,037,763; Sept. 3; Gaz. vol. 182; p. 196.
Shaving-cup soap-holder. D. W. Wardwell. No. 1,045,649; Nov. 26; Gaz. vol. 184; p. 999.
Shaving-machine. M. E. Ryan. No. 1,024,149; Apr. 23; Sp. p. 5123; Gaz. vol. 177; p. 901.
Shaving-stick holder. P. K. Williams. No. 1,018,949; Feb. 27; Sp. p. 6013; Gaz. vol. 175; p. 1037.
Shavings, Machine for making wood. J. Erixon. No. 1,031,434; July 2; Gaz. vol. 180; p. 205.
Sheaf-loader. D. A. Stewart. No. 1,047,326; Dec. 17; Gaz. vol. 185; p. 603.
Sheaf-loader. J. F. Stewart. No. 1,047,327; Dec. 17; Gaz. vol. 185; p. 603.

Shear-table. A. A. Neave. No. 1,045,873; Dec. 3; Gaz. vol. 185; p. 27.
Shears: *See* Animal-shears; Flying shears; Metal-cutting shears; Metal-working shears.
Shears. A. Nelson. No. 1,019,689; Mar. 5; Sp. p. 1486; Gaz. vol. 176; p. 230.
Shears. G. Zell and W. S. Shenk. No. 1,029,411; June 11; Sp. p. 2934; Gaz. vol. 179; p. 490.
Shears. L. H. Flory. No. 1,037,827; Sept. 3; Gaz. vol. 182; p. 217.
Shears. O. von den Steinen. No. 1,048,753; Dec. 31; Gaz. vol. 185; p. 1158.
Shears, Adjustable tension attachment for. H. E. Putney. No. 1,031,370; July 2; Gaz. vol. 180; p. 182.
Shears and sheet-metal brake, Combined. A. O. Slentz. No. 1,036,359; Aug. 20; Gaz. vol. 181; p. 735.
Shears cutter, Animal-. M. W. McArdle. No. 1,019,333; Mar. 5; Sp. p. 734; Gaz. vol. 176; p. 114.
Shears, Tension attachment for. H. Clauss. No. 1,020,400; Mar. 19; Sp. p. 2947; Gaz. vol. 176; p. 535.
Shearing attachment, Automatic. E. F. Butler. No. 1,018,296; Feb. 20; Sp. p. 4560; Gaz. vol. 175; p. 783.
Shearing-machine. T. Lennox. No. 1,020,508; Mar. 19; Sp. p. 3175; Gaz. vol. 176; p. 570.
Shearing-machine. W. H. Luther. No. 1,024,409; Apr. 23; Sp. p. 5673; Gaz. vol. 177; p. 988.
Shearing-machine. E. Sauter. No. 1,037,056; Aug. 27; Gaz. vol. 181; p. 1002.
Shearing-machine. E. Sauter. No. 1,045,802; Nov. 26; Gaz. vol. 184; p. 1050.
Shearing-machine cutters, Guard-plate for. F. C. Hayes. No. 1,049,232; Dec. 31; Gaz. vol. 185; p. 1322.
Shearing-machine, Hand. H. B. Kraut. No. 1,035,096; Aug. 6; Gaz. vol. 181; p. 232.
Shearing machine, Sheep-. A. G. L. Neighbour. No. 1,046,323; Dec. 3; Gaz. vol. 185; p. 183.
Shearing machine, Sheep-. L. Siede and A. Street. No. 1,046,871; Dec. 10; Gaz. vol. 185; p. 413.
Shearing mechanism, Rotary. G. W. Swift, Jr. No. 1,034,164; July 30; Gaz. vol. 180; p. 1282.
Shearing or punching machine. H. B. Kraut. No. 1,035,094; Aug. 6; Gaz. vol. 181; p. 231.
Sheath-applying means. F. N. Palmer. No. 1,046,106; Dec. 3; Gaz. vol. 185; p. 105.
Sheave. J. L. Cypher. No. 1,036,459; Aug. 20; Gaz. vol. 181; p. 769.
Sheave-block. J. G. Fairbanks. No. 1,032,593; July 16; Gaz. vol. 180; p. 685.
Sheave suspension, Universal. V. W. Mason. No. 1,027,491; May 28; Sp. p. 5276; Gaz. vol. 178; p. 925.
Sheave, Universal. J. F. Shea. No. 1,016,965; Feb. 13; Sp. p. 1635; Gaz. vol. 175; p. 287.
Shedding mechanism. G. Fortier. No. 1,024,846; Apr. 30; Sp. p. 6691; Gaz. vol. 177; p. 1177.
Sheep-dipping mechanism. R. Clark. No. 1,033,986; July 30; Gaz. vol. 180; p. 1220.
Sheet-conveying apparatus. W. B. Wait. No. 1,044,713; Nov. 19; Gaz. vol. 184; p. 645.
Sheet-cooling machine. G. W. Smead. No. 1,039,202; Sept. 24; Gaz. vol. 182; p. 770.
Sheet-cutting machine. H. De Smith. No. 1,038,860; Sept. 17; Gaz. vol. 182; p. 639.
Sheet-delivery mechanism. H. A. W. Wood. No. 1,040,480; Oct. 8; Gaz. vol. 183; p. 301.
Sheet-delivery mechanism. C. A. McCain. No. 1,046,095; Dec. 3; Gaz. vol. 185; p. 101.
Sheet-feeder. R. S. Payne. No. 1,022,257; Apr. 2; Sp. p. 1065; Gaz. vol. 177; p. 170.
Sheet-feeding apparatus. M. J. Ward. No. 1,031,600; July 2; Gaz. vol. 180; p. 260.
Sheet-feeding apparatus. E. J. Casey. No. 1,040,882; Oct. 8; Gaz. vol. 183; p. 440.
Sheet-feeding machine. F. L. Cross. No. 1,041,747; Oct. 22; Gaz. vol. 183; p. 800.
Sheet-feeding machine. H. K. King. No. 1,041,807; Oct. 22; Gaz. vol. 183; p. 823.
Sheet-feeding mechanism. L. E. Morrison. No. 1,014,323; Jan. 9; Sp. p. 2736; Gaz. vol. 174; p. 456.
Sheet-feeding mechanism. L. E. Morrison. No. 1,033,444; July 23; Gaz. vol. 180; p. 1011.
Sheet-feeding mechanism, Gage for. M. H. Piper. No. 1,019,084; Mar. 5; Sp. p. 164; Gaz. vol. 176; p. 28.
Sheet-guiding mechanism. P. Duffy. No. 1,035,171; Aug. 13; Gaz. vol. 181; p. 288.
Sheet-handling machine. R. C. Seymour. No. 1,015,716; Jan. 23; Sp. p. 5789; Gaz. vol. 174; p. 987.
Sheet-handling machine. R. C. Seymour. No. 1,024,460; Apr. 23; Sp. p. 5778; Gaz. vol. 177; p. 1004.
Sheet-handling mechanism. G. Schlesinger. No. 1,040,025; Oct. 1; Gaz. vol. 183; p. 118.
Sheet-material-cutting die. D. N. Prime. No. 1,018,520; Feb. 27; Sp. p. 5116; Gaz. vol. 175; p. 891.
Sheet-metal articles, Machine for forming. B. Adriance and A. Calleson. No. 1,037,844; Sept. 10; Gaz. vol. 182; p. 255.
Sheet-metal articles, Machine for making. B. Adriance and A. Calleson. No. 1,029,334; June 11; Sp. p. 2747; Gaz. vol. 179; p. 464.
Sheet-metal articles, Machine for stamping and forming. M. F. Cahill. No. 1,016,547; Feb. 6; Sp. p. 740; Gaz. vol. 175; p. 109.
Sheet-metal battery used for producing an electrochemical bath for cleaning silver. E. A. Hardy. No. 1,048,961; Dec. 31; Gaz. vol. 185; p. 1230.
Sheet-metal-beading machine. H. Metz and E. J. Bowles. No. 1,039,776; Oct. 1; Gaz. vol. 183; p. 37.
Sheet-metal-bending machine. W. H. Fahrney. No. 1,015,429; Jan. 23; Sp. p. 5167; Gaz. vol. 174; p. 888.
Sheet-metal bending or corrugating and crimping machine. F. Todd. No. 1,031,599; July 2; Gaz. vol. 180; p. 260.
Sheet-metal box. G. Klenk. No. 1,015,234; Jan. 16; Sp. p. 4716; Gaz. vol. 174; p. 795.
Sheet-metal box. J. Schaffer. No. 1,029,321; June 11; Sp. p. 2716; Gaz. vol. 179; p. 460.
Sheet-metal box. J. H. Lippke, R. M. Babin, and J. Miserez. No. 1,036,284; Aug. 20; Gaz. vol. 181; p. 709.
Sheet-metal can. D. Bloom. No. 1,030,455; June 25; Sp. p. 5220; Gaz. vol. 179; p. 929.
Sheet-metal door construction. E. Gustafson. No. 1,036,832; Aug. 27; Gaz. vol. 181; p. 928.
Sheet-metal drawing and shaping apparatus. H. G. Carlson. No. 1,047,167; Dec. 17; Gaz. vol. 185; p. 542.
Sheet-metal house, Portable. C. D. Pruden. No. 1,016,032; Jan. 30; Sp. p. 6462; Gaz. vol. 174; p. 1124.
Sheet-metal pipe, Machine for manufacturing. F. Magidson. No. 1,023,115; Apr. 9; Sp. p. 2895; Gaz. vol. 177; p. 492
Sheet-metal plates, Apparatus for deforming. G. H. Hyde. No. 1,032,907; July 16; Gaz. vol. 180; p. 793.
Sheet-metal plates, Machine for joining. J. H. Palmer and E. W. Salmon, Jr. No. 1,020,154; Mar. 12; Sp. p. 2441; Gaz. vol. 176; p. 416.
Sheet-metal receptacle. E. W. Carnes. No. 1,044,742; Nov. 19; Gaz. vol. 184; p. 652.
Sheet-metal scraps, Machine for compressing. J. Dunn. No. 1,033,089; July 23; Gaz. vol. 180; p. 891.
Sheet-metal structure. A. L. Sessions. No. 1,018,728; Feb. 27; Sp. p. 5556; Gaz. vol. 175; p. 962.
Sheet-metal structure, Walled. P. M. Wege. No. 1,017,354; Feb. 13; Sp. p. 2486; Gaz. vol. 175; p. 422.
Sheet-metal tank. J. F. Hoag and W. Thomas. No. 1,041,472; Oct. 15; Gaz. vol. 183; p. 673.
Sheet-metal utensils, Construction of. A. F. Reitzel. No. 1,041,351; Oct. 15; Gaz. vol. 183; p. 634.
Sheet-metal-vessel-making machine. J. Krohn. No. 1,020,560; Mar. 19; Sp. p. 3296; Gaz. vol. 176; p. 589.
Sheet-metal-wiring machine. W. R. Magie. No. 1,048,984; Dec. 31; Gaz. vol. 185; p. 1237.
Sheet-metal work. C. P. Shepherd and E. S. Conrad. No. 1,016,584; Feb. 6; Sp. p. 815; Gaz. vol. 175; p. 121.
Sheet-metal-working machine. J. F. Wing. No. 1,031,605; July 2; Gaz. vol. 180; p. 262.
Sheet-numbering machine. R. Gompf. No. 1,038,348; Sept. 10; Gaz. vol. 182; p. 425.
Sheet-registering device. O. S. Beyer. No. 1,014,112; Jan. 9; Sp. p. 2289; Gaz. vol. 174; p. 381.
Sheet-registering mechanism. J. White. No. 1,036,169; Aug. 20; Gaz. vol. 181; p. 669.
Sheet separating and feeding machine. W. A. Lorenz. No. 1,048,713; Dec. 31; Gaz. vol. 185; p. 1144.
Sheet separating, registering, and feeding apparatus. H. B. Green. No. 1,039,521; Sept. 24; Gaz. vol. 182; p. 884.
Sheet-separator for vacuum picking-up rollers, Automatic. H. Hollings. No. 1,045,551; Nov. 26; Gaz. vol. 184; p. 965.
Sheet shaping and bending machine. J. F. Hoag and W. Thomas. No. 1,041,471; Oct. 15; Gaz. vol. 183; p. 673.
Sheet, tent, and sleeping-bag, Combined bed-. F. W. Burch. No. 1,048,806; Dec. 31; Gaz. vol. 185; p. 1178.
Sheets, Holder for assembled. G. F. C. Houghton. No. 1,025,744; May 7; Sp. p. 1405; Gaz. vol. 178; p. 220.
Sheets of material, Apparatus for severing or separating. B. D. Courts. No. 1,022,930; Apr. 9; Sp. p. 2514; Gaz. vol. 177; p. 429.
Sheets or webs, Means for controlling and directing moving. G. F. Read. No. 1,015,836; Jan. 30; Sp. p. 6041; Gaz. vol. 174; p. 1054.
Shelf, Adjustable. M. H. Smith. No. 1,021,432; Mar. 26; Sp. p. 5171; Gaz. vol. 176; p. 936.
Shelf, Adjustable. I. E. Martin. No. 1,043,950; Nov. 12; Gaz. vol. 184; p. 349.
Shelf and other like bracket. J. H. Morgan. No. 1,028,590; June 4; Sp. p. 1148; Gaz. vol. 179; p. 174.
Shelf and partition, Combined. P. M. Wege. No. 1,038,038; Sept. 10; Gaz. vol. 182; p. 323.
Shelf-frame. S. Hauser. No. 1,034,365; July 30; Gaz. vol. 180; p. 1353.
Shelf structure. W. Tietz. No. 1,025,032; Apr. 30; Sp. p. 7056; Gaz. vol. 177; p. 1240.
Shelf-support. G. W. Young. No. 1,038,813; Sept. 17; Gaz. vol. 182; p. 623.
Shelf, Window-. C. B. Hawver. No. 1,037,904; Sept. 10; Gaz. vol. 182; p. 277.
Shelving. H. P. Beecher. No. 1,024,922; Apr. 30; Sp. p. 6850; Gaz. vol. 177; p. 1204.
Shelving-bracket, Adjustable. B. T. B. Hyde. No. 1,037,915; Sept. 10; Gaz. vol. 182; p. 281.

Alphabetical list of inventions—Continued.

Shelving, Collapsible. V. Willoughby. No. 1,021,122; Mar. 26; Sp. p. 4482; Gaz. vol. 176; p. 828.
Shelving, Metallic. B. L. Jones. No. 1,013,172; Jan. 2; Sp. p. 168; Gaz. vol. 174; p. 29.
Shelving, Sectional. P. L. Bryning. No. 1,040,270; Oct. 8; Gaz. vol. 183; p. 230.
Shelving, Shiftable extensible support for. B. T. B. Hyde. No. 1,044,889; Nov. 19; Gaz. vol. 184; p. 703.
Shelving, Store-. B. T. B. Hyde. No. 1,043,432; Nov. 5; Gaz. vol. 184; p. 138.
Shell. A. J. Soden. No. 1,023,339; Apr. 16; Sp. p. 3403; Gaz. vol. 177; p. 607.
Shell construction. C. J. Sowards. No. 1,024,373; Apr. 23; Sp. p. 5563; Gaz. vol. 177; p. 975.
Shell, Paper shot-. F. O. Hoagland. No. 1,020,142; Mar. 12; Sp. p. 2414; Gaz. vol. 176; p. 412.
Shell-roll. A. Zabriskie. No. 1,046,532; Dec. 10; Gaz. vol. 185; p. 295.
Shell, Shotgun-. W. P. Brown. No. 1,034,684; Aug. 6; Gaz. vol. 181; p. 93.
Shell, Shotgun-. W. P. Brown. No. 1,035,079; Aug. 6; Gaz. vol. 181; p. 225.
Shell, Shotgun-. W. P. Brown. No. 1,040,503; Oct. 8; Gaz. vol. 183; p. 310.
Shells for guns, torpedo-heads, maritime mines, and the like, Loading charge for bursting. E. Sokolowski. No. 1,015,214; Jan. 16; Sp. p. 4670; Gaz. vol. 174; p. 789.
Sheller: *See* Corn-sheller.
Sherardizing-furnace. J. Riddell. No. 1,034,930; Aug. 6; Gaz. vol. 181; p. 177.
Shield, Reversible breath-. R. Sideman. No. 1,044,698; Nov. 19; Gaz. vol. 184; p. 638.
Shifter mechanism. F. E. Sutherland and J. A. Brown. No. 1,028,503; June 4; Sp. p. 972; Gaz. vol. 179; p. 146.
Shifting device. E. C. Smith. No. 1,036,737; Aug. 27; Gaz. vol. 181; p. 895.
Shim. J. F. Hauquitz. No. 1,033,397; July 23; Gaz. vol. 180; p. 997.
Shingle. J. G. Fox and H. W. Simms. No. 1,048,517; Dec. 31; Gaz. vol. 185; p. 1076.
Shingle-bracket. V. D. King. No. 1,028,362; June 4; Sp. p. 658; Gaz. vol. 179; p. 99.
Shingle-fastener. C. S. Perry. No. 1,031,368; July 2; Gaz. vol. 180; p. 182.
Shingle-machine. J. B. Nelson. No. 1,036,308; Aug. 20; Gaz. vol. 181; p. 717.
Shingle-making machine. J. Barbour. No. 1,013,724; Jan. 2; Sp. p. 1398; Gaz. vol. 174; p. 219.
Shingle, Metallic. H. Clawson. No. 1,026,202; May 14; Sp. p. 2460; Gaz. vol. 178; p. 412.
Shingle-mold. E. M. Walton. No. 1,020,586; Mar. 19; Sp. p. 3360; Gaz. vol. 176; p. 597.
Shingle-press. A. McCann. No. 1,032,489; July 16; Gaz. vol. 180; p. 651.
Shingle-rack, Portable. C. Clark. No. 1,016,935; Feb. 13; Sp. p. 1561; Gaz. vol. 175; p. 276.
Shingle sawing and jointing machine. W. C. Miles. No. 1,039,312; Sept. 24; Gaz. vol. 182; p. 811.
Shingles, Method and apparatus for forming roofing-. J. W. Troeger. No. 1,014,424; Jan. 9; Sp. p. 2965; Gaz. vol. 174; p. 492.
Shingling-bracket. F. P. Howard. No. 1,043,838; Nov. 12; Gaz. vol. 184; p. 310.
Shingling-gage. C. K. Brown. No. 1,047,613; Dec. 17; Gaz. vol. 185; p. 703.
Shingling-tool, Adjustable and collapsible. J. G. Lewis. No. 1,026,097; May 14; Sp. p. 2231; Gaz. vol. 178; p. 376.
Ship. L. von Köppen. No. 1,034,626; Aug. 6; Gaz. vol. 181; p. 74.
Ship-cleaner. G. W. Ramer. No. 1,036,336; Aug. 20; Gaz. vol. 181; p. 728.
Ship-coaling apparatus. M. S. Iverson. No. 1,038,588; Sept. 17; Gaz. vol. 182; p. 544.
Ship construction. J. R. Oldham. No. 1,020,365; Mar. 12; Sp. p. 2861; Gaz. vol. 176; p. 485.
Ship construction. J. R. Oldham. No. 1,023,477; Apr. 16; Sp. p. 3670; Gaz. vol. 177; p. 650.
Ship locator and raiser. W. N. Bell. No. 1,021,818; Apr. 2; Sp. p. 148; Gaz. vol. 177; p. 25.
Ship safety device. W. S. Scarlett. No. 1,016,781; Feb. 6; Sp. p. 1229; Gaz. vol. 175; p. 189.
Ship, vessel, &c., Apparatus for indicating the trim of a. D. Mackay. No. 1,031,799; July 9; Gaz. vol. 180; p. 372.
Ships and boats, Hull and superstructure of. E. Antoniades. No. 1,021,294; Mar. 26; Sp. p. 4858; Gaz. vol. 176; p. 887.
Ships, Apparatus for ejecting ashes and other refuse from. F. J. Trewent and W. E. Proctor. No. 1,014,921; Jan. 16; Sp. p. 4085; Gaz. vol. 174; p. 690.
Ships, Captive lookout on board. F. Brackett. No. 1,017,200; Feb. 13; Sp. p. 2161; Gaz. vol. 175; p. 369.
Ships from barnacles, Protecting. G. Delius and C. P. Tatro. No. 1,021,734; Mar. 26; Sp. p. 5770; Gaz. vol. 176; p. 1036.
Ship's gun passes through a predetermined elevation, Apparatus for determining the moment when a. L. J. Mautner. No. 1,035,122; Aug. 6; Gaz. vol. 181; p. 239.
Ship's hatches and decks. J. R. Oldham. No. 1,028,263; June 4; Sp. p. 436; Gaz. vol. 179; p. 63.
Ship's-log apparatus. T. S. Walker. No. 1,019,566; Mar. 5; Sp. p. 1265; Gaz. vol. 176; p. 189.
Ships, Means for launching torpedoes from the sides of. A. E. Jones. No. 1,046,192; Dec. 3; Gaz. vol. 185; p. 135.
Ships, Means for recovering stranded. J. W. Church. No. 1,022,771; Apr. 9; Sp. p. 2190; Gaz. vol. 177; p. 376.
Ships, Sighting device for use on. J. von Petravič. No. 1,032,022; July 9; Gaz. vol. 180; p. 448.
Ships, Sounding apparatus for. S. E. Gladding. No. 1,020,490; Mar. 19; Sp. p. 3135; Gaz. vol. 176; p. 565.
Ships, Ventilating-port for. A. Van Herdman. No. 1,028,160; June 4; Sp. p. 182; Gaz. vol. 179; p. 27.
Shipping and display box. G. W. Shutes. No. 1,019,850; Mar. 12; Sp. p. 1800; Gaz. vol. 176; p. 315.
Shipping-box. G. M. Walker. No. 1,032,315; July 9; Gaz. vol. 180; p. 547.
Shipping-box. C. L. Arnold. No. 1,038,816; Sept. 17; Gaz. vol. 182; p. 624.
Shipping-box. E. L. Walker. No. 1,046,692; Dec. 10; Gaz. vol. 185; p. 351.
Shipping-case. K. I. Herman. No. 1,019,471; Mar. 5; Sp. p. 1069; Gaz. vol. 176; p. 158.
Shipping-case. C. Hartman. No. 1,028,020; May 28; Sp. p. 6421; Gaz. vol. 178; p. 1102.
Shipping-case. J. A. Connolly. No. 1,034,878; Aug. 6; Gaz. vol. 181; p. 161.
Shipping-case and display-cabinet, Combined. J. Lines. No. 1,042,935; Oct. 29; Gaz. vol. 183; p. 1235.
Shipping-case for flour-mill rolls, &c. C. O. Wright. No. 1,032,461; July 16; Gaz. vol. 180; p. 641.
Shipping-case, Metallic. C. N. Frey. No. 1,016,259; Feb. 6; Sp. p. 35; Gaz. vol. 175; p. 8.
Shirring machine, Cloth, &c. A. F. Mrock. No. 1,042,715; Oct. 29; Gaz. vol. 183; p. 1161.
Shirt. R. Bartell. No. 1,029,336; June 11; Sp. p. 2762; Gaz. vol. 179; p. 465.
Shirt. H. Saltzman. No. 1,035,053; Aug. 6; Gaz. vol. 181; p. 216.
Shirt. T. Silberman. No. 1,037,066; Aug. 27; Gaz. vol. 181; p. 1006.
Shirt. C. Kremer. No. 1,039,144; Sept. 24; Gaz. vol. 182; p. 750.
Shirt. G. Becker and N. Wolff. No. 1,046,049; Dec. 3; Gaz. vol. 185; p. 86.
Shirt. E. J. Weisbaum. No. 1,046,128; Dec. 3; Gaz. vol. 185; p. 114.
Shirt and collar fastening device, Combined. H. D. Hildreth. No. 1,027,603; May 28; Sp. p. 5509; Gaz. vol. 178; p. 963.
Shirt-envelop. G. Wordingham. No. 1,024,813; Apr. 30; Sp. p. 6620; Gaz. vol. 177; p. 1165.
Shirt-sleeve. A. Paradis. No. 1,045,737; Nov. 26; Gaz. vol. 184; p. 1029.
Shirt-waist. A. Greenebaum. No. 1,044,881; Nov. 19; Gaz. vol. 184; p. 701.
Shirt-waist holder, skirt-support, and waist-former, Combined. C. A. Murray. No. 1,044,072; Nov. 12; Gaz. vol. 184; p. 391.
Shirts, Making. A. J. Cumnock. No. 1,016,552; Feb. 6; Sp. p. 752; Gaz. vol. 175; p. 111.
Shock-absorber. E. Flentje. No. 1,013,384; Jan. 2; Sp. p. 653; Gaz. vol. 174; p. 103.
Shock-absorber. F. Nielsen. No. 1,016,514; Feb. 6; Sp. p. 649; Gaz. vol. 175; p. 97.
Shock-absorber. H. Luxembourger, Jr. No. 1,017,435; Feb. 13; Sp. p. 2665; Gaz. vol. 175; p. 451.
Shock-absorber. C. H. McCombs. No. 1,019,504; Mar. 5; Sp. p. 1150; Gaz. vol. 176; p. 169.
Shock-absorber. J. H. Woodring. No. 1,022,015; Apr. 2; Sp. p. 566; Gaz. vol. 177; p. 89.
Shock-absorber. A. Loomis. No. 1,027,866; May 28; Sp. p. 6124; Gaz. vol. 178; p. 1051.
Shock-absorber. C. O. Browne. No. 1,028,185; June 4; Sp. p. 289; Gaz. vol. 179; p. 37.
Shock-absorber. H. B. Stanton. No. 1,028,400; June 4; Sp. p. 739; Gaz. vol. 179; p. 111.
Shock-absorber. O. B. Ames. No. 1,029,252; June 11; Sp. p. 2563; Gaz. vol. 179; p. 435.
Shock-absorber. S. W. Rife. No. 1,029,462; June 11; Sp. p. 3032; Gaz. vol. 179; p. 508.
Shock-absorber. W. R. Sturgeon. No. 1,029,478; June 11; Sp. p. 3062; Gaz. vol. 179; p. 513.
Shock-absorber. H. H. Schmitt. No. 1,031,381; July 2; Gaz. vol. 180; p. 186.
Shock-absorber. R. T. Wainwright. No. 1,032,454; July 16; Gaz. vol. 180; p. 638.
Shock-absorber. E. S. Bullard. No. 1,033,870; July 30; Gaz. vol. 180; p. 1179.
Shock-absorber. T. J. Mullen and T. F. Brennan. No. 1,034,023; July 30; Gaz. vol. 180; p. 1234.
Shock-absorber. P. E. Haugh. No. 1,034,231; July 30; Gaz. vol. 180; p. 1306.
Shock-absorber. G. C. Martin. No. 1,034,634; Aug. 6; Gaz. vol. 181; p. 76.
Shock-absorber. F. M. Rennie. No. 1,037,052; Aug. 27; Gaz. vol. 181; p. 1001.

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Shock-absorber. A. Zeppelin. No. 1,037,404; Sept. 3; Gaz. vol. 182; p. 76.
Shock-absorber. G. J. Plato. No. 1,037,524; Sept. 3; Gaz. vol. 182; p. 118.
Shock-absorber. J. Benny. No. 1,037,583; Sept. 3; Gaz. vol. 182; p. 137.
Shock-absorber. F. W. Weyman. No. 1,038,808; Sept. 17; Gaz. vol. 182; p. 621.
Shock-absorber. G. C. Martin. No. 1,039,305; Sept. 24; Gaz. vol. 182; p. 809.
Shock-absorber. L. P. C. J. Jacquet. No. 1,040,948; Oct. 8; Gaz. vol. 183; p. 463.
Shock-absorber. D. Hartley. No. 1,043,827; Nov. 12; Gaz. vol. 184; p. 305.
Shock-absorber. W. N. Border. No. 1,044,339; Nov. 12; Gaz. vol. 184; p. 483.
Shock-absorber. R. Pope. No. 1,045,076; Nov. 19; Gaz. vol. 184; p. 768.
Shock-absorber. E. Flentje. No. 1,045,136; Nov. 26; Gaz. vol. 184; p. 817.
Shock-absorber. J. F. Herrmann. No. 1,045,789; Nov. 26; Gaz. vol. 184; p. 1047.
Shock-absorber. F. Schimmel. No. 1,046,656; Dec. 10; Gaz. vol. 185; p. 338.
Shock-absorber. R. J. Thompson. No. 1,046,900; Dec. 10; Gaz. vol. 185; p. 422.
Shock-absorber. G. D. Yates. No. 1,047,477; Dec. 17; Gaz. vol. 185; p. 655.
Shock-absorber. F. Schimmel. No. 1,048,743; Dec. 31; Gaz. vol. 185; p. 1154.
Shock-absorber adjustment. B. L. Lawton. No. 1,022,145; Apr. 2; Sp. p. 836; Gaz. vol. 177; p. 133.
Shock-absorber for gearing. W. T. Clark. No. 1,037,205; Sept. 3; Gaz. vol. 182; p. 9.
Shock-absorbing device. M. K. Golden. No. 1,015,015; Jan. 16; Sp. p. 4297; Gaz. vol. 174; p. 722.
Shock-absorbing device. C. H. Foster. No. 1,017,660; Feb. 20; Sp. p. 3114; Gaz. vol. 175; p. 562.
Shock-absorbing device. A. Bacchi. No. 1,023,795; Apr. 23; Sp. p. 4286; Gaz. vol. 177; p. 778.
Shock-absorbing device. E. Rimailho. No. 1,033,348; July 23; Gaz. vol. 180; p. 980.
Shock-absorbing device. C. S. Moore. No. 1,041,843; Oct. 22; Gaz. vol. 183; p. 835.
Shock-absorbing spring. N. W. Kaunitz. No. 1,044,661; Nov. 19; Gaz. vol. 184; p. 624.
Shock and hay loader. O. K. Sletto. No. 1,035,485; Aug. 13; Gaz. vol. 181; p. 397.
Shock and loose-grain loader. H. J. Hanson. No. 1,047,213; Dec. 17; Gaz. vol. 185; p. 560.
Shock-binder. M. A. Williams. No. 1,032,096; July 9; Gaz. vol. 180; p. 473.
Shock-compressor. C. E. Morrison. No. 1,043,026; Oct. 29; Gaz. vol. 183; p. 1267.
Shock-loader. T. Hecker. No. 1,016,826; Feb. 6; Sp. p. 1315; Gaz. vol. 175; p. 202.
Shock-loader. J. B. Schuman. No. 1,031,029; July 2; Gaz. vol. 180; p. 63.
Shock-loader. P. J. Donovan. No. 1,032,124; July 9; Gaz. vol. 180; p. 480.
Shock-loader. H. Henderson. No. 1,040,539; Oct. 8; Gaz. vol. 183; p. 324.
Shock loader and unloader. J. B. Schuman. No. 1,029,322; June 11; Sp. p. 2717; Gaz. vol. 179; p. 460.
Shock loader and unloader. J. B. Schuman. No. 1,030,021; June 18; Sp. p. 4251; Gaz. vol. 179; p. 736.
Shock-loading machine, Grain-. M. E. Weeks. No. 1,022,214; Apr. 2; Sp. p. 978; Gaz. vol. 177; p. 157.
Shock-making machine. G. Marshall. No. 1,025,705; May 7; Sp. p. 1320; Gaz. vol. 178; p. 205.
Shock-mover. P. Voellinger. No. 1,021,495; Mar. 26; Sp. p. 5314; Gaz. vol. 176; p. 957.
Shock-tying device. C. R. Tilford. No. 1,038,988; Sept. 17; Gaz. vol. 182; p. 689.
Shocker attachment. J. F. Hunter. No. 1,020,425; Mar. 19; Sp. p. 3004; Gaz. vol. 176; p. 544.
Shocking-machine. C. Orgaard. No. 1,040,002; Oct. 1; Gaz. vol. 183; p. 110.
Shocking-machine. E. Stumpf. No. 1,041,898; Oct. 22; Gaz. vol. 183; p. 854.
Shoe. J. Cavanagh, Jr. No. 1,013,739; Jan. 2; Sp. p. 1438; Gaz. vol. 174; p. 226.
Shoe. G. H. Clark. No. 1,013,744; Jan. 2; Sp. p. 1449; Gaz. vol. 174; p. 228.
Shoe. B. M. Weir. No. 1,018,145; Feb. 20; Sp. p. 4264; Gaz. vol. 175; p. 732.
Shoe. D. Austin. No. 1,022,458; Apr. 9; Sp. p. 1498; Gaz. vol. 177; p. 268.
Shoe. M. Rasmussen. No. 1,025,099; Apr. 30; Sp. p. 7203; Gaz. vol. 177; p. 1262.
Shoe. G. L. Pierce. No. 1,025,423; May 7; Sp. p. 693; Gaz. vol. 178; p. 110.
Shoe. M. Brock. No. 1,030,563; June 25; Sp. p. 5522; Gaz. vol. 179; p. 966.
Shoe. A. H. Prenzel. No. 1,031,196; July 2; Gaz. vol. 180; p. 124.
Shoe. E. B. West and N. F. Stevens. No. 1,033,501; July 23; Gaz. vol. 180; p. 1030.
Shoe. A. H. Prenzel. (Reissue.) No. 13,448; July 23; Gaz. vol. 180; p. 1118.
Shoe. M. Hilgert. No. 1,039,396; Sept. 24; Gaz. vol. 182; p. 839.
Shoe. G. L. Pierce. No. 1,039,437; Sept. 24; Gaz. vol. 182; p. 852.
Shoe. R. E. McKibben. No. 1,040,230; Oct. 1; Gaz. vol. 183; p. 186.
Shoe. J. N. Schwander. No. 1,040,781; Oct. 8; Gaz. vol. 183; p. 408.
Shoe. G. W. Baker. No. 1,041,404; Oct. 15; Gaz. vol. 183; p. 651.
Shoe. A. E. Owers. No. 1,043,350; Nov. 5; Gaz. vol. 184; p. 109.
Shoe. H. M. Freed. No. 1,048,820; Dec. 31; Gaz. vol. 185; p. 1183.
Shoe, Adjustable ice-. W. H. Morris and H. Hudson. No. 1,016,168; Jan. 30; Sp. p. 6730; Gaz. vol. 174; p. 1170.
Shoe and box-toe therefor. R. B. Melanson. No. 1,043,858; Nov. 12; Gaz. vol. 184; p. 316.
Shoe, Athletic. C. E. Simpson. No. 1,021,166; Mar. 26; Sp. p. 4587; Gaz. vol. 176; p. 843.
Shoe attachment. P. Hammer. No. 1,022,672; Apr. 9; Sp. p. 1945; Gaz. vol. 177; p. 338.
Shoe attachment. E. R. Carey and G. G. Condon. No. 1,034,075; July 30; Gaz. vol. 180; p. 1252.
Shoe back-strap. C. M. Benninghaus. No. 1,042,870; Oct. 29; Gaz. vol. 183; p. 1215.
Shoe-beating machine. A. Bates. No. 1,016,316; Feb. 6; Sp. p. 182; Gaz. vol. 175; p. 27.
Shoe-beating machine. A. Bates. No. 1,016,388; Feb. 6; Sp. p. 339; Gaz. vol. 175; p. 54.
Shoe-beating machine. J. Housholder. No. 1,030,584; June 25; Sp. p. 5611; Gaz. vol. 179; p. 974.
Shoe-beating machine. O. Ashton. No. 1,030,837; June 25; Sp. p. 6403; Gaz. vol. 179; p. 1067.
Shoe-beating machine, Rotary. O. Ashton. No. 1,048,638; Dec. 31; Gaz. vol. 185; p. 1117.
Shoe-block leveler. J. R. Haupenthal. No. 1,036,619; Aug. 27; Gaz. vol. 181; p. 858.
Shoe-bottom filler and making the same. A. Thoma. No. 1,032,312; July 9; Gaz. vol. 180; p. 546.
Shoe-branding machine. E. N. Chandler. No. 1,042,319; Oct. 22; Gaz. vol. 183; p. 992.
Shoe brushing and scraping device. C. S. Williams. No. 1,021,081; Mar. 26; Sp. p. 4399; Gaz. vol. 176; p. 816.
Shoe buttonhole-marker. E. T. Adams. No. 1,026,484; May 14; Sp. p. 3077; Gaz. vol. 178; p. 507.
Shoe-buttons, Device for smoothing holes in resetting. E. H. Magnus. No. 1,027,057; May 21; Sp. p. 4372; Gaz. vol. 178; p. 742.
Shoe-cleaner. W. G. Callender. No. 1,014,691; Jan. 16; Sp. p. 3572; Gaz. vol. 174; p. 611.
Shoe-cleaner. F. Harris and R. Sternberg. No. 1,017,096; Feb. 13; Sp. p. 1943; Gaz. vol. 175; p. 334.
Shoe-cleaner. F. Schimper. No. 1,026,774; May 21; Sp. p. 3712; Gaz. vol. 178; p. 643.
Shoe-cleaner. N. Dupuis. No. 1,044,762; Nov. 19; Gaz. vol. 184; p. 660.
Shoe-cleaning device. T. J. Dalton. No. 1,019,769; Mar. 12; Sp. p. 1654; Gaz. vol. 176; p. 288.
Shoe-cleaning device. V. M. Grab. No. 1,028,208; June 4; Sp. p. 339; Gaz. vol. 179; p. 46.
Shoe-cleaning device. J. M. Clark. No. 1,032,740; July 16; Gaz. vol. 180; p. 738.
Shoe-cleaning device. R. A. Schultz. No. 1,033,353; July 23; Gaz. vol. 180; p. 982.
Shoe cleat, Base-ball-. T. F. McCarthy. No. 1,034,476; Aug. 6; Gaz. vol. 181; p. 24.
Shoe, Contact-. F. A. Stuhlfeier. No. 1,044,595; Nov. 19; Gaz. vol. 184; p. 602.
Shoe, Double-soled turned. E. E. Redman. No. 1,039,442; Sept. 24; Gaz. vol. 182; p. 854.
Shoe edge and bottom protector. E. C. and E. Marshall. No. 1,041,830; Oct. 22; Gaz. vol. 183; p. 831.
Shoe-fastener. A. W. Ricks. No. 1,020,511; Mar. 12; Sp. p. 3182; Gaz. vol. 176; p. 571.
Shoe-fastening device. W. H. Powell. No. 1,020,658; Mar. 19; Sp. p. 3519; Gaz. vol. 176; p. 620.
Shoe-filler composition. J. P. Keener. No. 1,019,964; Mar. 12; Sp. p. 2044; Gaz. vol. 176; p. 353.
Shoe-finishing and other machine. A. Bates. No. 1,030,560; June 25; Sp. p. 5512; Gaz. vol. 179; p. 965.
Shoe-form. L. W. Reinhardt. No. 1,023,395; Apr. 16; Sp. p. 3513; Gaz. vol. 177; p. 625.
Shoe-form. C. A. Batchelder. No. 1,032,805; July 16; Gaz. vol. 180; p. 759.
Shoe-form. W. S. Lougee. No. 1,043,852; Nov. 12; Gaz. vol. 184; p. 314.
Shoe-forming machine. A. W. Dunn. No. 1,019,310; Mar. 5; Sp. p. 683; Gaz. vol. 176; p. 107.
Shoe-forming machine. R. F. McFeely. No. 1,042,582; Oct. 29; Gaz. vol. 183; p. 1113.
Shoe, Garden-. G. Bryning. No. 1,044,440; Nov. 12; Gaz. vol. 184; p. 516.
Shoe-gumming machine. J. F. La Borde and P. K. Williams. No. 1,019,494; Mar 5; Sp. p. 1131; Gaz. vol. 176; p. 166.
Shoe-holder. L. Sonntag No. 1,023,887; Apr. 23; Sp. p. 4522; Gaz. vol. 177; p. 810.

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Shoe-ironing apparatus. G. S. Covell. No. 1,030,647; June 25; Sp. p. 5831; Gaz. vol. 179; p. 998.
Shoe-ironing device. O. Ashton. No. 1,048,637; Dec. 31; Gaz. vol. 185; p. 1117.
Shoe-jack. E. E. Winkley. No. 1,015,112; Jan. 16; Sp. p. 4486; Gaz. vol. 174; p. 755.
Shoe-jack. A. Eppler. No. 1,029,000; June 11; Sp. p. 2032; Gaz. vol. 179; p. 349.
Shoe-jack. G. W. Harrison. No. 1,037,619; Sept. 3; Gaz. vol. 182; p. 148.
Shoe-jack. F. Mellen. No. 1,042,364; Oct. 22; Gaz. vol. 183; p. 1007.
Shoe-latch. B. Brynteson. No. 1,047,376; Dec. 17; Gaz. vol. 185; p. 619.
Shoe-machine, Automatic. E. E. Winkley. No. 1,018,860; Feb. 27; Sp. p. 5836; Gaz. vol. 175; p. 1007.
Shoe-machine jack. J. P. Pride. No. 1,030,012; June 18; Sp. p. 4229; Gaz. vol. 179; p. 733.
Shoe-machine jack. R. F. McFeely. No. 1,030,827; June 25; Sp. p. 6368; Gaz. vol. 179; p. 1063.
Shoe-mending device. J. Kiefer. No. 1,023,155; Apr. 16; Sp. p. 3034; Gaz. vol. 177; p. 544.
Shoe, Metallic. G. W. Sass. No. 1,028,610; June 4; Sp. p. 1187; Gaz. vol. 179; p. 181.
Shoe-nailing machine. L. E. Johnson and J. Crowe. No. 1,015,323; Jan. 23; Sp. p. 4930; Gaz. vol. 174; p. 853.
Shoe or boot. F. Tilt and J. E. Telling. No. 1,034,744; Aug. 6; Gaz. vol. 181; p. 115.
Shoe ornament. C. P. Keighley. No. 1,029,371; June 11; Sp. p. 2837; Gaz. vol. 179; p. 477.
Shoe ornament. C. P. Keighley. No. 1,046,306; Dec. 3; Gaz. vol. 185; p. 177.
Shoe, Ornamented. P. H. Franz. No. 1,035,567; Aug. 13; Gaz. vol. 181; p. 426.
Shoe, Packing-. G. Meyer. No. 1,018,333; Feb. 20; Sp. p. 4627; Gaz. vol. 175; p. 795.
Shoe-pad. L. S. Rowe. No. 1,020,160; Mar. 12; Sp. p. 2461; Gaz. vol. 176; p. 419.
Shoe polishing and cleaning machine. W. A. King. No. 1,032,067; July 9; Gaz. vol. 180; p. 402.
Shoe-polishing device. A. R. Gibson. No. 1,018,660; Feb. 27; Sp. p. 5417; Gaz. vol. 175; p. 938.
Shoe-polishing machine. A. D. Washington. No. 1,020,587; Mar. 19; Sp. p. 3362; Gaz. vol. 176; p. 598.
Shoe-polishing machine. J. N. Wood. No. 1,024,544; Apr. 30; Sp. p. 6022; Gaz. vol. 177; p. 1071.
Shoe-polishing machine. W. H. McConnell. No. 1,024,589; Apr. 30; Sp. p. 6135; Gaz. vol. 177; p. 1086.
Shoe-polishing-machine-operating mechanism. L. Levin. No. 1,030,001; June 18; Sp. p. 4208; Gaz. vol. 179; p. 730.
Shoe-preparing machine, Welt-. T. G. Plant. No. 1,048,871; Dec. 31; Gaz. vol. 185; p. 1199.
Shoe-protecting cover. E. Lafreniere. No. 1,038,395; Sept. 10; Gaz. vol. 182; p. 442.
Shoe-protector. J. R. Hetrick. No. 1,018,708; Feb. 27; Sp. p. 5516; Gaz. vol. 175; p. 955.
Shoe pull-strap. W. S. Parry. No. 1,047,558; Dec. 17; Gaz. vol. 185; p. 684.
Shoe quarter-closure, Apparel-. C. M. Dodson. No. 1,025,901; May 7; Sp. p. 1779; Gaz. vol. 178; p. 273.
Shoe-rack. A. M. Subberg. No. 1,030,940; July 2; Gaz. vol. 180; p. 31.
Shoe racks or conveyers, Releasing device for. F. S. Williams. No. 1,018,286; Feb. 20; Sp. p. 4545; Gaz. vol. 175; p. 780.
Shoe-repairing jack, Adjustable. G. T. Cantara. No. 1,025,681; May 7; Sp. p. 1273; Gaz. vol. 178; p. 198.
Shoe-retainer. J. A. Drechsler. No. 1,018,652; Feb. 27; Sp. p. 5403; Gaz. vol. 175; p. 936.
Shoe-retainer. D. S. McMullan. No. 1,028,586; June 4; Sp. p. 1142; Gaz. vol. 179; p. 173.
Shoe, Rubber. J. T. Crowley. No. 1,047,504; Dec. 17; Gaz. vol. 185; p. 664.
Shoe scraper and brush, Combined. C. A. McQueary and L. A. Passauer. No. 1,048,991; Dec. 31; Gaz. vol. 185; p. 1240.
Shoe, Sewed. C. Balcom. No. 1,030,268; June 18; Sp. p. 4790; Gaz. vol. 179; p. 823.
Shoe shank and filler, Combined. W. H. Wood. No. 1,021,032; Mar. 26; Sp. p. 4304; Gaz. vol. 176; p. 800.
Shoe-shank stiffener. A. M. and C. M. Moore. No. 1,014,894; Jan. 16; Sp. p. 4026; Gaz. vol. 174; p. 681.
Shoe-shanks, Machine for cutting in. S. E. Taft. No. 1,048,374; Dec. 24; Gaz. vol. 185; p. 989.
Shoe-shanks, Machine for randing and cutting in. F. M. Moody. No. 1,048,196; Dec. 24; Gaz. vol. 185; p. 928.
Shoe-shaping machine. O. Ashton. No. 1,017,726; Feb. 20; Sp. p. 3255; Gaz. vol. 175; p. 583.
Shoe-shaping machine. O. Ashton. No. 1,019,878; Mar. 12; Sp. p. 1853; Gaz. vol. 176; p. 325.
Shoe-shining machine. P. Amadeo. No. 1,021,814; Apr. 2; Sp. p. 118; Gaz. vol. 177; p. 24.
Shoe-shaping machine. G. M. Carnes. No. 1,030,840; June 25; Sp. p. 6414; Gaz. vol. 179; p. 1068.
Shoe-shining device, Hand. S. C. Clow. No. 1,047,386; Dec. 17; Gaz. vol. 185; p. 622.
Shoe, Snow-. J. F. Kaminski. No. 1,014,482; Jan. 9; Sp. p. 3067; Gaz. vol. 174; p. 509.
Shoe, Snow-. A. A. Baker. No. 1,038,264; Sept. 10; Gaz. vol. 182; p. 398.
Shoe, Sporting-. D. J. Golden. No. 1,039,518; Sept. 24; Gaz. vol. 182; p. 883.
Shoe-stretcher. W. L. Smith. No. 1,024,869; Apr. 30; Sp. p. 6738; Gaz. vol. 177; p. 1185.
Shoe-stretcher. C. H. Warthon. No. 1,040,473; Oct. 8; Gaz. vol. 183; p. 299.
Shoe-support. A. E. Jerram. No. 1,023,318; Apr. 16; Sp. p. 3366; Gaz. vol. 177; p. 600.
Shoe-support. T. K. Keith. No. 1,030,823; June 25; Sp. p. 6350; Gaz. vol. 179; p. 1062.
Shoe-support. F. Maciarz. No. 1,041,499; Oct. 15; Gaz. vol. 183; p. 682.
Shoe-support for pounding-up machines. S. Snow. No. 1,018,638; Feb. 27; Sp. p. 5367; Gaz. vol. 175; p. 931.
Shoe, Swimming-. P. W. Klaphecke. No. 1,013,403; Jan. 2; Sp. p. 692; Gaz. vol. 174; p. 110.
Shoe, Swimming-. G. M. Larson. No. 1,043,776; Nov. 5; Gaz. vol. 184; p. 256.
Shoe-tacking machine. H. A. Ballard. No. 1,015,931; Jan. 30; Sp. p. 6243; Gaz. vol. 174; p. 1088.
Shoe-tip protector. T. L. De Vore. No. 1,023,417; Apr. 16; Sp. p. 3551; Gaz. vol. 177; p. 632.
Shoe-toe-drying oven. G. W. Bernauer. No. 1,045,806; Dec. 3; Gaz. vol. 185; p. 3.
Shoe toe-protector. J. D. Kennedy. No. 1,030,892; July 2; Gaz. vol. 180; p. 15.
Shoe-tongue supporter. G. Papp. No. 1,028,598; June 4; Sp. p. 1164; Gaz. vol. 179; p. 177.
Shoe-top-snipping machine. R. L. Felix. No. 1,035,333; Aug. 13; Gaz. vol. 181; p. 345.
Shoe-tree. J. S. Hansen. No. 1,021,834; Apr. 2; Sp. p. 185; Gaz. vol. 177; p. 30.
Shoe-turning machine. A. Eppler. No. 1,020,812; Mar. 19; Sp. p. 3840; Gaz. vol. 176; p. 673.
Shoe-turning machines, Forepart-form for. J. L. Dow. No. 1,022,660; Apr. 9; Sp. p. 1921; Gaz. vol. 177; p. 335.
Shoe-upper-beading machine. L. W. G. Flynt. No. 1,027,411; May 28; Sp. p. 5125; Gaz. vol. 178; p. 900.
Shoe-upper-protecting cover. A. Naylor. No. 1,046,007; Dec. 3; Gaz. vol. 185; p. 71.
Shoe-uppers, Machine for beating out. W. Gordon. No. 1,030,578; June 25; Sp. p. 5594; Gaz. vol. 179; p. 972.
Shoe, Ventilated. K. E. Taute. No. 1,035,496; Aug. 13; Gaz. vol. 181; p. 402.
Shoes and the like, Covering for tennis-. C. G. Adamson. No. 1,027,637; May 28; Sp. p. 5569; Gaz. vol. 178; p. 974.
Shoes, Antislipping device or heel for. F. H. Ellis. No. 1,020,085; Mar. 12; Sp. p. 2298; Gaz. vol. 176; p. 394.
Shoes, Apparatus for breaking in. C. P. Byrnes. No. 1,015,291; Jan. 23; Sp. p. 4855; Gaz. vol. 174; p. 841.
Shoes, Cleat for athletic. G. L. Pierce. No. 1,041,667; Oct. 15; Gaz. vol. 183; p. 737.
Shoes, Edge-setting iron for. C. F. Keller. No. 1,014,006; Jan. 9; Sp. p. 2050; Gaz. vol. 174; p. 346.
Shoes, &c., Fastening device for. J. F. Atwood. No. 1,015,928; Jan. 30; Sp. p. 6234; Gaz. vol. 174; p. 1087.
Shoes, Filling the bottom cavities of. A. Thoma. No. 1,036,931; Aug. 27; Gaz. vol. 181; p. 959.
Shoes, Holder for facilitating the application of oil to. O. Ashton. No. 1,035,406; Aug. 13; Gaz. vol. 181; p. 371.
Shoes, Machine for breaking in. S. A. Eddins. No. 1,023,510; Apr. 16; Sp. p. 3736; Gaz. vol. 177; p. 661.
Shoes, &c., Machine for fastening buttons on. G. W. Perkins. No. 1,043,862; Nov. 12; Gaz. vol. 184; p. 317.
Shoes, Machine for operating upon. A. Bates. No. 1,020,177; Mar. 12; Sp. p. 2495; Gaz. vol. 176; p. 425.
Shoes, Machine for use in the manufacture of. E. L. Keyes. No. 1,023,854; Apr. 23; Sp. p. 4449; Gaz. vol. 177; p. 799.
Shoes, Making. A. H. Prenzel. No. 1,030,609; June 25; Sp. p. 5707; Gaz. vol. 179; p. 984.
Shoes, Making. M. Hilgert. No. 1,032,672; July 16; Gaz. vol. 180; p. 714.
Shoes, Making. A. H. Prenzel. (Reissue.) No. 13,447; July 23; Gaz. vol. 180; p. 1117.
Shoes, Making sewed. C. Balcom. No. 1,030,269; June 18; Sp. p. 4792; Gaz. vol. 179; p. 823.
Shoes, Making stitch-down. F. T. Tappan. No. 1,036,371; Aug. 20; Gaz. vol. 181; p. 740.
Shoes, Making welt-. W. J. Drey. No. 1,023,555; Apr. 16; Sp. p. 3822; Gaz. vol. 177; p. 675.
Shoes, Manufacturing. N. Vecchio. No. 1,018,455; Feb. 27; Sp. p. 4919; Gaz. vol. 175; p. 869.
Shoes or other stock, Device for applying liquid to. F. M. Furber. No. 1,043,087; Nov. 5; Gaz. vol. 184; p. 13.
Shoes or the like, Tongue for. W. B. Arnold. No. 1,019,877; Mar. 12; Sp. p. 1852; Gaz. vol. 176; p. 325.
Shoes, slippers, and the like, Bow for ladies'. A. Manheimer. No. 1,024,517; Apr. 30; Sp. p. 5958; Gaz. vol. 177; p. 1061.
Shoeing apparatus, Animal-. R. E. Balch. No. 1,022,399; Apr. 9; Sp. p. 1352; Gaz. vol. 177; p. 248.
Shoemaker's jack. F. Heimlich. No. 1,038,128; Sept. 10; Gaz. vol. 182; p. 350.
Shoemaker's knife. O. T. Hutchison. No. 1,018,908; Feb. 27; Sp. p. 5936; Gaz. vol. 175; p. 1023.

Alphabetical list of inventions—Continued.

Shoemaker's stand and last, Combined. H. F. Hurst. No. 1,017,872; Feb. 20; Sp. p. 3640; Gaz. vol. 175; p. 635.
Shoemaker's tool. P. Caretti. No. 1,016,608; Feb. 6; Sp. p. 874; Gaz. vol. 175; p. 130.
Shoemaker's tool. P. Caretti. No. 1,019,822; Mar. 12; Sp. p. 1870; Gaz. vol. 176; p. 327.
Shooting without projectiles, Device for practising in. G. Merarini and A. Emanuele. No. 1,031,566; July 2; Gaz. vol. 180; p. 249.
Shop management. C. B. Brewer. No. 1,033,773; July 23; Gaz. vol. 180; p. 1117.
Shoring-tool. W. R. McLendon and R. I. Eustis. No. 1,022,036; Apr. 2; Sp. p. 607; Gaz. vol. 177; p. 96.
Shortening-mixer. P. S. Wood. No. 1,038,469; Sept. 10; Gaz. vol. 182; p. 470.
Shotgun. T. C. Johnson. No. 1,028,358; June 4; Sp. p. 648; Gaz. vol. 179; p. 97.
Shotgun. F. F. Burton. No. 1,028,430; June 4; Sp. p. 806; Gaz. vol. 179; p. 122.
Shotgun-barrel. P. F. Vandenbossche. No. 1,013,974; Jan. 9; Sp. p. 1981; Gaz. vol. 174; p. 335.
Shotgun, Single-trigger. E. H. Hamersly. No. 1,018,759; Feb. 27; Sp. p. 5631; Gaz. vol. 175; p. 973.
Shotguns, Compensating lug for. J. Singer. No. 1,014,913; Jan. 16; Sp. p. 4061; Gaz. vol. 174; p. 687.
Shoulder-pad. W. A. Thornhill. No. 1,041,196; Oct. 15; Gaz. vol. 183; p. 581.
Shovel: *See* Car-unloading shovel; Clinker-shovel; Cultivator-shovel; Digging-shovel; Excavating-shovel; Muck-shovel; Snow-shovel.
Shovel. S. Bolin and A. Janson. No. 1,029,967; June 18; Sp. p. 4147; Gaz. vol. 179; p. 718.
Shovel. A. J. Birkestrand. No. 1,032,984; July 16; Gaz. vol. 180; p. 817.
Shovel and ash-sifter, Combined. K. W. Thompson. No. 1,045,458; Nov. 26; Gaz. vol. 184; p. 930.
Shovel dipper-tooth, Steam-. J. Clark. No. 1,021,135; Mar. 26; Sp. p. 4517; Gaz. vol. 176; p. 832.
Shovel-point. H. W. Snyder. No. 1,016,181; Jan. 30; Sp. p. 6753; Gaz. vol. 174; p. 1174.
Shovels, dredges, and the like, Dipper-arm for steam. A. W. Robinson. No. 1,047,991; Dec. 24; Gaz. vol. 185; p. 860.
Shovels, spades, &c., Foot-rest for. C. H. Webster. No. 1,042,180; Oct. 22; Gaz. vol. 183; p. 947.
Shoveling or waste-preventing board. J. E. Powers. No. 1,043,356; Nov. 5; Gaz. vol. 184; p. 112.
Show-case. L. W. Welch. No. 1,023,186; Apr. 16; Sp. p. 3104; Gaz. vol. 177; p. 555.
Show-case. L. W. Welch. No. 1,023,231; Apr. 16; Sp. p. 3183; Gaz. vol. 177; p. 570.
Show-case. T. E. Lindsay. No. 1,023,576; Apr. 16; Sp. p. 3877; Gaz. vol. 177; p. 683.
Show-case. F. X. Ganter. No. 1,024,324; Apr. 23; Sp. p. 5482; Gaz. vol. 177; p. 961.
Show-case. M. L. Lobenstein. No. 1,033,331; July 23; Gaz. vol. 180; p. 974.
Show-case. F. C. Jorgeson. No. 1,042,118; Oct. 22; Gaz. vol. 183; p. 927.
Show-case. W. H. Cobb. No. 1,044,749; Nov. 19; Gaz. vol. 184; p. 655.
Show-case construction. F. A. Dixon. No. 1,033,161; July 23; Gaz. vol. 180; p. 916.
Show-case leg. A. Vanderveld. No. 1,032,970; July 16; Gaz. vol. 180; p. 812.
Show-case lock. M. Kurtzon. No. 1,017,978; Feb. 20; Sp. p. 3892; Gaz. vol. 175; p. 673.
Show-case, Refrigerator. F. Van Duyne. No. 1,023,975; Apr. 23; Sp. p. 4731; Gaz. vol. 177; p. 839.
Show-cases, Sliding doors for. R. L. Price and G. A. Delaplain. No. 1,032,702; July 16; Gaz. vol. 180; p. 725.
Shower-bath, Portable. A. H. Masters. No. 1,047,670; Dec. 17; Gaz. vol. 185; p. 724.
Shredders or pulverizers, Feeding mechanism for. M. F. Williams. No. 1,048,621; Dec. 31; Gaz. vol. 185; p. 1111.
Shredding-machine. C. S. Leonard. No. 1,042,932; Oct. 29; Gaz. vol. 183; p. 1234.
Shutter-actuating mechanism, Time-controlled. B. Bryan. No. 1,015,134; Jan. 16; Sp. p. 4527; Gaz. vol. 174; p. 763.
Shutter-releaser. C. H. Stempel. No. 1,044,933; Nov. 19; Gaz. vol. 184; p. 719.
Shutter, Roller-blind. J. Goddard and F. F. Dorsey. No. 1,027,329; May 21; Sp. p. 4948; Gaz. vol. 178; p. 833.
Shutter, Ventilating-. W. E. Wine. No. 1,040,084; Oct. 1; Gaz. vol. 183; p. 138.
Shutters and the like, Fastening device for. C. J. Hagstrom. No. 1,039,388; Sept. 24; Gaz. vol. 182; p. 836.
Shutters or curtains, Mechanism for raising and lowering. E. H. McCloud. No. 1,019,169; Mar. 5; Sp. p. 364; Gaz. vol. 176; p. 57.
Shutters or other closures, Holder for. T. A. Clemons. No. 1,046,266; Dec. 3; Gaz. vol. 185; p. 163.
Shuttle. C. E. McGill. No. 1,014,661; Jan. 16; Sp. p. 3504; Gaz. vol. 174; p. 600.
Shuttle. C. Pommier. No. 1,022,046; Apr. 2; Sp. p. 628; Gaz. vol. 177; p. 100.
Shuttle. R. N. Allen. No. 1,033,516; July 23; Gaz. vol. 180; p. 1035.
Shuttle. G. Hoffmann. No. 1,035,792; Aug. 13; Gaz. vol. 181; p. 499.
Shuttle. S. A. Dudley. No. 1,041,607; Oct. 15; Gaz. vol. 183; p. 715.
Shuttle. J. Gagnon. No. 1,044,372; Nov. 12; Gaz. vol. 184; p. 493.
Shuttle, Automatically-threading. E. S. Stimpson. No. 1,017,065; Feb. 13; Sp. p. 1854; Gaz. vol. 175; p. 322.
Shuttle-brake. J. Laforêt. No. 1,021,199; Mar. 26; Sp. p. 4652; Gaz. vol. 176; p. 853.
Shuttle-check. P. F. Marcante. No. 1,023,579; Apr. 16; Sp. p. 3882; Gaz. vol. 177; p. 684.
Shuttle-check. H. Wyman. No. 1,029,961; June 18; Sp. p. 4137; Gaz. vol. 179; p. 716.
Shuttle-eye. J. H. Hopkinson. No. 1,018,762; Feb. 27; Sp. p. 5638; Gaz. vol. 175; p. 974.
Shuttle-guard. F. Johnson. No. 1,019,050; Mar. 5; Sp. p. 84; Gaz. vol. 176; p. 17.
Shuttle, Hand-threading. J. Poisson. No. 1,025,881; May 7; Sp. p. 1724; Gaz. vol. 178; p. 266.
Shuttle, Hand-threading. A. Guldemann. No. 1,029,289; June 11; Sp. p. 2635; Gaz. vol. 179; p. 447.
Shuttle, Hand-threading. J. Lacroix. No. 1,039,964; Oct. 1; Gaz. vol. 183; p. 98.
Shuttle, Hand-threading. A. Houle. No. 1,047,056; Dec. 10; Gaz. vol. 185; p. 474.
Shuttle, Hand-threading. J. B. & E. H. Daudelin. No. 1,048,662; Dec. 31; Gaz. vol. 185; p. 1127.
Shuttle-protector. C. H. Heidel. No. 1,048,070; Dec. 24; Gaz. vol. 185; p. 886.
Shuttle, Self-threading. W. Labonté. No. 1,014,309; Jan. 9; Sp. p. 2700; Gaz. vol. 174; p. 451.
Shuttle-threader. H. L. Litchfield. No. 1,047,957; Dec. 24; Gaz. vol. 185; p. 850.
Shuttle-threading device. H. A. Murphy and J. F. Simpson. No. 1,013,425; Jan. 2; Sp. p. 742; Gaz. vol. 174; p. 117.
Shuttle-threading device. C. Miller. No. 1,038,777; Sept. 17; Gaz. vol. 182; p. 611.
Shuttle-threading mechanism. J. Gabler. No. 1,023,831; Apr. 23; Sp. p. 4406; Gaz. vol. 177; p. 791.
Shuttle, Weaving-. E. H. Ottenheimer and E. C. Authier. No. 1,039,435; Sept. 24; Gaz. vol. 182; p. 852.
Shuttles, Tension device for. D. Blanchard. No. 1,026,298; May 14; Sp. p. 2659; Gaz. vol. 178; p. 445.
Sickle for mowers. W. C. Hoss. No. 1,022,677; Apr. 9; Sp. p. 1960; Gaz. vol. 177; p. 340.
Sickle for mowers and harvesters, Double. J. B. Fulton. No. 1,017,863; Feb. 20; Sp. p. 3607; Gaz. vol. 175; p. 632.
Side-board and wagon-body clamp. A. C. Smith. No. 1,014,339; Jan. 9; Sp. p. 2793; Gaz. vol. 174; p. 462.
Side-board lock. E. Craig. No. 1,038,531; Sept. 17; Gaz. vol. 182; p. 524.
Side carrier. W. Weis. No. 1,031,749; July 9; Gaz. vol. 180; p. 355.
Side-delivery body. T. Wright. No. 1,019,875; Mar. 12; Sp. p. 1849; Gaz. vol. 176; p. 325.
Side-delivery door for bodies, Double-. T. Wright. No. 1,019,876; Mar. 12; Sp. p. 1851; Gaz. vol. 176; p. 325.
Side-dump body. T. Wright. No. 1,023,190; Apr. 16; Sp. p. 3115; Gaz. vol. 177; p. 557.
Side-frame construction. O. S. Pulliam. No. 1,048,874; Dec. 31; Gaz. vol. 185; p. 1200.
Side-sill bracket. H. M. Pflager. No. 1,047,834; Dec. 17; Gaz. vol. 185; p. 780.
Sidereal sphere. W. W. Atwood. No. 1,019,405; Mar. 5; Sp. p. 941; Gaz. vol. 176; p. 137.
Sidewalk-box cover. M. Saucedo. No. 1,029,719; June 18; Sp. p. 3592; Gaz. vol. 179; p. 634.
Sidewalk construction, Cement. D. J. Cable. No. 1,036,187; Aug. 20; Gaz. vol. 181; p. 675.
Sidewalk-cover. F. Kees. No. 1,030,410; June 25; Sp. p. 5118; Gaz. vol. 179; p. 913.
Sidewalk-light. F. L. Heughes. No. 1,030,301; June 25; Sp. p. 4877; Gaz. vol. 179; p. 872.
Sidewalk-light. F. L. Heughes. No. 1,048,694; Dec. 31; Gaz. vol. 185; p. 1139.
Sidewalk-trap. T. M. Brintnall. No. 1,024,059; Apr. 23; Sp. p. 4907; Gaz. vol. 177; p. 869.
Siding and shingling gage. G. Keyes. No. 1,031,854; July 9; Gaz. vol. 180; p. 392.
Sieve. S. Nickerson. No. 1,019,347; Mar. 5; Sp. p. 772; Gaz. vol. 176; p. 118.
Sieve. M. McIlvaine. No. 1,030,673; June 25; Sp. p. 5895; Gaz. vol. 179; p. 1007.
Sieve-adjuster for sieve-shoes. E. Bonsness. No. 1,040,129; Oct. 1; Gaz. vol. 183; p. 154.
Sieve-bolter. G. Halliday. No. 1,038,124; Sept. 10; Gaz. vol. 182; p. 349.
Sieve-purifier. W. Baker. No. 1,032,104; July 9; Gaz. vol. 180; p. 475.
Sieves or screens, Tapping device for. F. W. R. Williams. No. 1,022,911; Apr. 9; Sp. p. 2476; Gaz. vol. 177; p. 421.
Sifter. L. J. Herboldsman and G. L. Eppihimer. No. 1,018,904; Feb. 27; Sp. p. 5930; Gaz. vol. 175; p. 1022.
Sifter. G. F. Higgins. No. 1,045,790; Nov. 26; Gaz. vol. 184; p. 1047.

Sifter and separator. J. Childs. No. 1,024,249; Apr. 23; Sp. p. 5351; Gaz. vol. 177; p. 938.
Sifter, Ash-. T. W. Comstock. No. 1,017,205; Feb. 13; Sp. p. 2179; Gaz. vol. 175; p. 371.
Sifter, Ash-. L. Libbman. No. 1,036,280; Aug. 20; Gaz. vol. 181; p. 708.
Sifter, Ash-. J. Dowd and P. T. Goggin. No. 1,040,291; Oct. 8; Gaz. vol. 183; p. 238.
Sifter, Ash-. L. Calder. No. 1,041,017; Oct. 15; Gaz. vol. 183; p. 520.
Sifter, Ash-. S. Cohen. No. 1,041,243; Oct. 15; Gaz. vol. 183; p. 596.
Sifter, Dustless coal-ash. W. F. Benson. No. 1,041,001; Oct. 15; Gaz. vol. 183; p. 515.
Sifter, Flour-. C. E. Gray. No. 1,018,822; Feb. 27; Sp. p. 5766; Gaz. vol. 175; p. 995.
Sifter, Flour-. J. H. Zyburn. No. 1,024,962; Apr. 30; Sp. p. 6925; Gaz. vol. 177; p. 1217.
Sifter, Flour-. W. W. Braren. No. 1,028,322; June 4; Sp. p. 564; Gaz. vol. 179; p. 83.
Sifter, Flour-. A. J. Rice. No. 1,034,302; July 30; Gaz. vol. 180; p. 1331.
Sifter, Flour-. A. J. Jenevein. No. 1,035,349; Aug. 13; Gaz. vol. 181; p. 351.
Sifter, Flour-. L. V. Daniels. No. 1,036,974; Aug. 27; Gaz. vol. 181; p. 975.
Sifter or analogous device, Ash-. J. S. Brown. No. 1,028,537; June 4; Sp. p. 1032; Gaz. vol. 179; p. 157.
Sifter, Sand-. H. Tscherning. No. 1,037,371; Sept. 3; Gaz. vol. 182; p. 65.
Sifter-spout. F. B. Lucking. No. 1,028,577; June 4; Sp. p. 1122; Gaz. vol. 179; p. 170.
Sifters, Balancing device for. H. W. Gladhill. No. 1,045,694; Nov. 26; Gaz. vol. 184; p. 1015.
Sifters, Means for driving suspended structures, such as. H. W. Gladhill. No. 1,039,514; Sept. 24; Gaz. vol. 182; p. 881.
Sifting device, Ash-. M. Nowak. No. 1,034,926; Aug. 6; Gaz. vol. 181; p. 175.
Sifting machine, Flour-. E. C. May. No. 1,025,004; Apr. 30; Sp. p. 7010; Gaz. vol. 177; p. 1231.
Sight, Battle-. E. J. D. Newitt. No. 1,035,124; Aug. 6; Gaz. vol. 181; p. 240.
Sight-feed condensation displacement-lubricator. F. W. Edwards. No. 1,032,662; July 16; Gaz. vol. 180; p. 710.
Sight-feed lubricator. F. J. Hull. No. 1,022,946; Apr. 9; Sp. p. 2560; Gaz. vol. 177; p. 434.
Sign. O. R. Buck. No. 1,014,564; Jan. 9; Sp. p. 3214; Gaz. vol. 174; p. 535.
Sign. W. E. Booker. No. 1,027,310; May 21; Sp. p. 4911; Gaz. vol. 178; p. 826.
Sign. D. Kaber. No. 1,027,547; May 28; Sp. p. 5393; Gaz. vol. 178; p. 945.
Sign. W. Farrah. No. 1,028,560; June 4; Sp. p. 1086; Gaz. vol. 179; p. 165.
Sign. C. W. Smith. No. 1,030,339; June 25; Sp. p. 4974; Gaz. vol. 179; p. 887.
Sign. E. Bambeck. No. 1,030,449; June 25; Sp. p. 5204; Gaz. vol. 179; p. 926.
Sign. E. M. Hanley. No. 1,034,442; Aug. 6; Gaz. vol. 181; p. 15.
Sign. L. Powell. No. 1,039,187; Sept. 24; Gaz. vol. 182; p. 764.
Sign. A. Gray. No. 1,040,932; Oct. 8; Gaz. vol. 183; p. 457.
Sign. C. L. Carter. No. 1,044,442; Nov. 12; Gaz. vol. 184; p. 517.
Sign. J. K. Burleigh. No. 1,045,942; Dec. 3; Gaz. vol. 185; p. 50.
Sign. E. Bambeck. No. 1,046,536; Dec. 10; Gaz. vol 185; p. 296.
Sign, Advertising display-. C. F. Spery. No. 1,026,531; May 14; Sp. p. 3166; Gaz. vol. 178; p. 523.
Sign and bulletin board, Combined. C. H. Coleman. No. 1,044,750; Nov. 19; Gaz. vol. 184; p. 656.
Sign and can-holder, Collapsible sheet-metal. C. W. Shonk. No. 1,017,696; Feb. 20; Sp. p. 3187; Gaz. vol. 175; p. 574.
Sign apparatus, Electric illuminated-. A. O. Siegel. No. 1,039,828; Oct. 1; Gaz. vol. 183; p. 53.
Sign, Automatic. M. J. Doner. No. 1,019,770; Mar. 12; Sp. p. 1656; Gaz. vol. 176; p. 289.
Sign, Changeable. C. P. Flachaire. No. 1,033,239; July 23; Gaz. vol. 180; p. 944.
Sign, Changeable. E. J. Burgquist. No. 1,046,963; Dec. 10; Gaz. vol. 185; p. 443.
Sign character. D. Kaber. No. 1,026,868; May 21; Sp. p. 3902; Gaz. vol. 178; p. 674.
Sign, Display-. L. Weinberg. No. 1,046,042; Dec. 3; Gaz. vol. 185; p. 84.
Sign, Door-. E. F. Goodwin. No. 1,029,497; June 11; Sp. p. 3098; Gaz. vol. 179; p. 520.
Sign, Door-. E. McClung. No. 1,029,506; June 11; Sp. p. 3117; Gaz. vol. 179; p. 523.
Sign, Electric. W. H. Weeks. No. 1,025,892; May 7; Sp. p. 1760; Gaz. vol. 178; p. 270.
Sign, Electric. G. von Saalfeld. No. 1,041,174; Oct. 15; Gaz. vol. 183; p. 574.
Sign-flasher. S. A. Palmer. No. 1,031,863; July 9; Gaz. vol. 180; p. 395.
Sign, Flashing gas-. W. Clayton-Joel. No. 1,019,599; Mar. 5; Sp. p. 1322; Gaz. vol. 176; p. 199.
Sign-frame. H. Bennewis. No. 1,015,126; Jan. 16; Sp. p. 4514; Gaz. vol. 174; p. 760.
Sign-holder. W. A. Smith. No. 1,033,838; July 30; Gaz. vol. 180; p. 1168.
Sign, Identification-. H. Sjovik. No. 1,027,008; May 21; Sp. p. 4249; Gaz. vol. 178; p. 724.
Sign, Illuminated. H. Mulholland. No. 1,024,695; Apr. 30; Sp. p. 6373; Gaz. vol. 177; p. 1123.
Sign, Illuminated. P. G. Watmough, Jr. No. 1,029,734; June 18; Sp. p. 3627; Gaz. vol. 179; p. 639.
Sign, Illuminated. H. Mulholland. No. 1,037,294; Sept. 3; Gaz. vol. 182; p. 38.
Sign, Illuminated. H. Mulholland and C. G. West. No. 1,039,175; Sept. 24; Gaz. vol. 182; p. 759.
Sign, Illuminated. L. H. Moise. No. 1,047,973; Dec. 24; Gaz. vol. 185; p. 854.
Sign, Illuminated. R. F. Venner. No. 1,048,008; Dec. 24; Gaz. vol. 185; p. 865.
Sign, Illuminating-. W. T. Bradshaw. No. 1,022,928; Apr. 9; Sp. p. 2511; Gaz. vol. 177; p. 428.
Sign, Mechanical advertising-. J. Samuels. No. 1,015,714; Jan. 23; Sp. p. 5786; Gaz. vol. 174; p. 986.
Sign, Moving. A. N. Johnson. No. 1,018,975; Feb. 27; Sp. p. 6085; Gaz. vol. 175; p. 1047.
Sign or card clamp. H. W. Ries. No. 1,026,772; May 21; Sp. p. 3708; Gaz. vol. 178; p. 642.
Sign-plate, Luminous. A. V. Rice. No. 1,048,343; Dec. 24; Gaz. vol. 185; p. 978.
Sign-post. M. C. Richardson and E. B. Cooke. No. 1,028,279; June 4; Sp. p. 473; Gaz. vol. 179; p. 69.
Sign-post. D. A. Adams. No. 1,041,224; Oct. 15; Gaz. vol. 183; p. 590.
Sign-receptacle. J. S. Crossley and V. R. Despard. No. 1,042,406; Oct. 29; Gaz. vol. 183; p. 1050.
Sign, Street-. S. L. Phillips. No. 1,041,866; Oct. 22; Gaz. vol. 183; p. 843.
Sign, Street-car advertising-. W. T. Childs. No. 1,031,169; July 2; Gaz. vol. 180; p. 114.
Sign-support. G. Wirsing. No. 1,024,542; Apr. 30; Sp. p. 6020; Gaz. vol. 177; p. 1070.
Signs, Apparatus for preventing sparking at the contacts of electrically-illuminated. R. F. Venner. No. 1,021,907; Apr. 2; Sp. p. 326; Gaz. vol. 177; p. 54.
Signs, Means for producing and exhibiting luminous. J. Emringer. No. 1,038,736; Sept. 17; Gaz. vol. 182; p. 596.
Signal: *See* Audible signal; Automatic signal; Automobile-signal; Automobile rear signal; Car-signal; Crossing-signal; Electric signal; Electric railway-signal; Engine-room return-signal; Fog-signal; Mail-box signal; Marine signal; Public signal; Railway-signal; Railway-crossing signal; Selective signal; Semaphore-signal; Time-signal; Tire-signal; Vehicle-signal; Visible signal.
Signal. J. C. McGowan and R. W. Michler. No. 1,019,340; Mar. 5; Sp. p. 746; Gaz. vol. 176; p. 116.
Signal. C. C. F. Nieschang. No. 1,019,827; Mar. 12; Sp. p. 1751; Gaz. vol. 176; p. 307.
Signal. A. J. Horton. No. 1,020,555; Mar. 19; Sp. p. 3285; Gaz. vol. 176; p. 587.
Signal. I. L. Fake. No. 1,029,432; June 11; Sp. p. 2975; Gaz. vol. 179; p. 498.
Signal. E. E. Salisbury. No. 1,038,206; Sept. 10; Gaz. vol. 182; p. 376.
Signal. A. G. Clark. No. 1,038,296; Sept. 10; Gaz. vol. 182; p. 408.
Signal. R. C. Showalter. No. 1,038,450; Sept. 10; Gaz. vol. 182; p. 463.
Signal and exhaust control. E. K. Conover. No. 1,046,413; Dec. 3; Gaz. vol. 185; p. 215.
Signal apparatus, Electric. W. S. Reynolds. No. 1,023,875; Apr. 23; Sp. p. 4496; Gaz. vol. 177; p. 806.
Signal apparatus, Safety. J. H. Alandar and R. McGregor. No. 1,018,026; Feb. 20; Sp. p. 3985; Gaz. vol. 175; p. 689.
Signal-box. N. H. Suren. No. 1,029,956; June 18; Sp. p. 4128; Gaz. vol. 179; p. 715.
Signal-box. A. D. T. Libby. No. 1,042,700; Oct. 29; Gaz. vol. 183; p. 1155.
Signal-box, Non-interference. G. L. Foote. No. 1,043,818; Nov. 12; Gaz. vol. 184; p. 302.
Signal device. W. Thorsteinson. No. 1,027,295; May 21; Sp. p. 4888; Gaz. vol. 178; p. 822.
Signal device. M. Levison. No. 1,048,978; Dec. 31; Gaz. vol. 185; p. 1235.
Signal device, Electric. H. A. Parrish. No. 1,046,634; Dec. 10; Gaz. vol. 185; p. 330.
Signal device for drawbridges, &c. G. R. Bock. No. 1,027,100; May 21; Sp. p. 4487; Gaz. vol. 178; p. 756.
Signal-device hook. P. Fuchs. No. 1,016,260; Feb. 6; Sp. p. 36; Gaz. vol. 175; p. 8.
Signal-indicating device for railways. E. Debrie. No. 1,032,994; July 16; Gaz. vol. 180; p. 820.
Signal indicator, Train-air-. T. F. Bellhouse. No. 1,030,454; June 25; Sp. p. 5218; Gaz. vol. 179; p. 928.
Signal joint, Automatic block-. L. H. Kinney and W. McGuire. No. 1,027,343; May 21; Sp. p. 4972; Gaz. vol. 178; p. 837.

Alphabetical list of inventions—Continued.

Signal light, Fog-. R. C. Douglas. No. 1,018,304; Feb. 20; Sp. p. 4576; Gaz. vol. 175; p. 785.
Signal-operator, Automatic. E. R. Gill. No. 1,024,444; Apr. 23; Sp. p. 5737; Gaz. vol. 177; p. 998.
Signal-receiving appliance, Electric. J. G. Mitchell. No. 1,027,351; May 21; Sp. p. 4986; Gaz. vol. 178; p. 840.
Signal semaphore-arm, Railway-. J. W. Fenton. No. 1,044,874; Nov. 19; Gaz. vol. 184; p. 698.
Signal-switch, Electric. C. and A. Beck. No. 1,023,410; Apr. 16; Sp. p. 3540; Gaz. vol. 177; p. 630.
Signal-switch stand, Safety. R. K. Rex. No. 1,042,969; Oct. 29; Gaz. vol. 183; p. 1246.
Signal system. C. B. and J. F. McLeer. No. 1,042,944; Oct. 29; Gaz. vol. 183; p. 1237.
Signal system, Pneumatically-operated elevator. B. Meyer. No. 1,035,802; Aug. 13; Gaz. vol. 181; p. 503.
Signal-transmitter. W. Kaisling. No. 1,035,354; Aug. 13; Gaz. vol. 181; p. 353.
Signal-transmitter, Electric. J. McFell. No. 1,044,218; Nov. 12; Gaz. vol. 184; p. 440.
Signal transmitting and receiving apparatus, Electrical. A. T. Dawson and G. T. Buckham. No. 1,018,884; Feb. 27; Sp. p. 5879; Gaz. vol. 175; p. 1014.
Signal-wire support. J. Carlson. No. 1,034,076; July 30; Gaz. vol. 180; p. 1253.
Signals, Electric indicating device for. G. A. Clingwald. No. 1,044,021; Nov. 12; Gaz. vol. 184; p. 374.
Signals, Electrical apparatus for transmitting and receiving. A. T. Dawson and G. T. Buckham. No. 1,037,452; Sept. 3; Gaz. vol. 182; p. 94.
Signals, System for electrically transmitting. E. Hermsdorf. No. 1,035,009; Aug. 6; Gaz. vol. 181; p. 203.
Signals, Track attachment for switch-. G. H. Rice. No. 1,047,704; Dec. 17; Gaz. vol. 185; p. 735.
Signaling. R. A. Fessenden. No. 1,019,326; Mar. 5; Sp. p. 507; Gaz. vol. 176; p. 80.
Signaling and safety device, Submarine. C. Brown. No. 1,028,989; June 11; Sp. p. 2002; Gaz. vol. 179; p. 345.
Signaling and similar purposes, Apparatus for aerial. W. G. Spiegel. No. 1,038,506; Sept. 10; Gaz. vol. 182; p. 481.
Signaling and telephone system. H. O. Rugh. No. 1,016,036; Jan. 30; Sp. p. 6471; Gaz. vol. 174; p. 1126.
Signaling apparatus. J. Moyes and C. A. Stevenson. No. 1,028,591; June 4; Sp. p. 1149; Gaz. vol. 179; p. 175.
Signaling apparatus. E. H. Long. No. 1,029,811; June 18; Sp. p. 3780; Gaz. vol. 179; p. 665.
Signaling apparatus. C. P. Nachod. No. 1,044,411; Nov. 12; Gaz. vol. 184; p. 507.
Signaling apparatus and circuits, Electric. F. B. Herzog. No. 1,028,089; May 28; Sp. p. 6587; Gaz. vol. 178; p. 1123.
Signaling apparatus, Fog-. S. A. Pedersen. No. 1,034,729; Aug. 6; Gaz. vol. 181; p. 109.
Signaling apparatus for hospitals. W. M. Perry and A. E. Boozer. No. 1,047,560; Dec. 17; Gaz. vol. 185; p. 684.
Signaling apparatus, Selective. D. W. Kneisly. No. 1,035,971; Aug. 20; Gaz. vol. 181; p. 598.
Signaling apparatus, Submarine sound-. E. C. Wood. No. 1,035,291; Aug. 13; Gaz. vol. 181; p. 329.
Signaling apparatus, Wireless. J. L. Hogan, Jr. No. 1,014,002; Jan. 9; Sp. p. 2044; Gaz. vol. 174; p. 345.
Signaling by electromagnetic waves. R. A. Fessenden. No. 1,020,032; Mar. 12; Sp. p. 2185; Gaz. vol. 176; p. 376.
Signaling by electroradiant energy. C. D. Ehret. No. 1,018,555; Feb. 27; Sp. p. 5205; Gaz. vol. 175; p. 905.
Signaling-circuit for train-despatching. J. C. Field. No. 1,045,271; Nov. 26; Gaz. vol. 184; p. 864.
Signaling device. C. A. Schindler. No. 1,015,715; Jan. 23; Sp. p. 5787; Gaz. vol. 174; p. 986.
Signaling device. R. H. Manson. No. 1,016,699; Feb. 6; Sp. p. 1056; Gaz. vol. 175; p. 162.
Signaling device. G. Fortmann. No. 1,033,572; July 23; Gaz. vol. 180; p. 1054.
Signaling device. C. A. Schindler. No. 1,046,225; Dec. 3; Gaz. vol. 185; p. 148.
Signaling device, Electric. A. Lungen. No. 1,023,743; Apr. 16; Sp. p. 4174; Gaz. vol. 177; p. 733.
Signaling device, Electric. F. W. Cole. No. 1,040,149; Oct. 1; Gaz. vol. 183; p. 160.
Signaling device, Electric. R. C. Nevin. No. 1,040,389; Oct. 8; Gaz. vol. 183; p. 271.
Signaling device, Electrical. E. A. Fitzgerald. No. 1,014,588; Jan. 9; Sp. p. 3258; Gaz. vol. 174; p. 544.
Signaling device, Electrical. T. Weiss and T. A. Walther. No. 1,028,980; June 11; Sp. p. 1982; Gaz. vol. 179; p. 342.
Signaling device, Electrical. T. Weiss. No. 1,029,521; June 11; Sp. p. 3142; Gaz. vol. 179; p. 527.
Signaling device for automobiles and the like. A. Vogt. No. 1,030,214; June 18; Sp. p. 4668; Gaz. vol. 179; p. 804.
Signaling device, Restaurant. J. Bedini. No. 1,013,582; Jan. 2; Sp. p. 1058; Gaz. vol. 174; p. 171.
Signaling devices and the like, Apparatus for training and locking. R. H. Manson. No. 1,036,663; Aug. 27; Gaz. vol. 181; p. 872.
Signaling from airships and the like, Means for. R. Wankmüller. No. 1,013,342; Jan. 2; Sp. p. 558; Gaz. vol. 174; p. 89.
Signaling-horn, &c. M. R. Hutchison. No. 1,043,703; Nov. 5; Gaz. vol. 184; p. 232.
Signaling-machine. A. C. Kail. No. 1,047,069; Dec. 10; Gaz. vol. 185; p. 477.
Signaling means, Selective. J. McFell. No. 1,024,590; Apr. 30; Sp. p. 6145; Gaz. vol. 177; p. 1086.
Signaling mechanism. C. H. Foster. No. 1,031,993; July 9; Gaz. vol. 180; p. 438.
Signaling mechanism, Automatic. J. W. Rogers. No. 1,041,168; Oct. 15; Gaz. vol. 183; p. 572.
Signaling mechanism, Train. H. and L. R. Jarvis. No. 1,030,307; June 25; Sp. p. 4900; Gaz. vol. 179; p. 875.
Signaling, Selective. H. O. Rugh and C. S. Rhoads, Jr. No. 1,041,354; Oct. 15; Gaz. vol. 183; p. 635.
Signaling system. H. O. Rugh. No. 1,018,375; Feb. 20; Sp. p. 4727; Gaz. vol. 175; p. 809.
Signaling system. H. O. Rugh. No. 1,018,376; Feb. 20; Sp. p. 4729; Gaz. vol. 175; p. 810.
Signaling system. E. R. Gill. No. 1,019,781; Mar. 12; Sp. p. 1674; Gaz. vol. 176; p. 292.
Signaling system. J. Poe. No. 1,022,260; Apr. 2; Sp. p. 1071; Gaz. vol. 177; p. 171.
Signaling system. E. R. Gill. No. 1,024,446; Apr. 23; Sp. p. 5747; Gaz. vol. 177; p. 999.
Signaling system. H. O. Rugh. No. 1,028,790; June 4; Sp. p. 1551; Gaz. vol. 179; p. 242.
Signaling system. C. D. Ehret. No. 1,031,698; July 9; Gaz. vol. 180; p. 337.
Signaling system. H. O. Rugh. No. 1,037,330; Sept. 3; Gaz. vol. 182; p. 50.
Signaling system. A. C. Bell. No. 1,042,385; Oct. 29; Gaz. vol. 183; p, 1042.
Signaling system. H. O. Rugh. No. 1,042,482; Oct. 29; Gaz. vol. 183; p. 1078.
Signaling system. F. Hardinge. No. 1,046,182; Dec. 3; Gaz. vol. 185; p. 131.
Signaling system, Electric. J. S. Harley. No. 1,031,848; July 9; Gaz. vol. 180; p. 389.
Signaling system, Electric. J. D. Taylor. No. 1,036,372; Aug. 20; Gaz. vol. 181; p. 740.
Signaling system, Electric. K. A. Hawley. No. 1,036,620; Aug. 27; Gaz. vol. 181; p. 858.
Signaling system, Electric. W. L. Miller. No. 1,040,378; Oct. 8; Gaz. vol. 183; p. 267.
Signaling system, Electric. C. F. Frank. No. 1,046,765; Dec. 10; Gaz. vol. 185; p. 379.
Signaling system, Electrical. H. M. Eldred. No. 1,042,096; Oct. 22; Gaz. vol. 183; p. 920.
Signaling system, Electrical. W. Noble. No. 1,048,200; Dec. 24; Gaz. vol. 185; p. 930.
Signaling system, Party-line selective. C. E. Scribner. No. 1,023,482; Apr. 16; Sp. p. 3681; Gaz. vol. 177; p. 652.
Signaling system, Selective. E. R. Gill. No. 1,020,975; Mar. 26; Sp. p. 4193; Gaz. vol. 176; p. 779.
Signaling system, Selective. E. R. Gill. No. 1,024,445; Apr. 23; Sp. p. 5744; Gaz. vol. 177; p. 999.
Signaling system, Selective. J. McFell. No. 1,030,197; June 18; Sp. p. 4627; Gaz. vol. 179; p. 796.
Signaling system, Selective. J. McFell. No. 1,048,561; Dec. 31; Gaz. vol. 185; p. 1090.
Signaling system, Selective electrical. C. L. Goodrum. No. 1,026,029; May 14; Sp. p. 2055; Gaz. vol. 178; p. 352.
Signaling systems, Hand-generator for harmonic. R. H. Manson. No. 1,032,688; July 16; Gaz. vol. 180; p. 720.
Signaling, Wireless R. A. Fessenden. No. 1,022,540; Apr. 9; Sp. p. 1658; Gaz. vol. 177; p. 294.
Signature-gathering machine. C. A. Juengst. No. 1,023,568; Apr. 16; Sp. p. 3858; Gaz. vol. 177; p. 679
Signature-gathering machine. C. A. Juengst. No 1,040,689; Oct. 8; Gaz. vol. 183; p. 380.
Signature-gathering machines, Calipering device for. E. R. Kast. No. 1,039,541; Sept. 24; Gaz. vol. 182; p. 890.
Signature-stuffing machine. S. C. Cox. No. 1,043,401; Nov. 5; Gaz. vol. 184; p. 127.
Silencer. A. Lloyd-Horry. No. 1,031,943; July 9; Gaz. vol. 180; p. 422.
Silica, alumina, and potash from feldspar, Recovery of. S. Peacock. No. 1,030,122; June 18; Sp. p. 4464; Gaz. vol. 179; p. 771.
Silicon and making the same, Decarburized. J. T. H. Dempster. No. 1,019,431; Mar. 5; Sp. p. 988; Gaz. vol. 176; p. 145.
Silicon articles, Making. T. B. Allen. No. 1,037,713; Sept. 3; Gaz. vol. 182; p. 180.
Silicon carbid. F. J. Tone. No. 1,013,700; Jan. 2; Sp. p. 1356; Gaz. vol. 174; p. 211.
Silicon carbid, Manufacture of. F. J. Tone. No. 1,013,701; Jan. 2; Sp. p. 1357; Gaz. vol. 174; p. 211.
Silicon carbid, Producing. F. J. Tone. No. 1,044,295; Nov. 12; Gaz. vol. 184; p. 467.
Silicon products. F. J. Tone. No. 1,028,303; June 4; Sp. p. 523; Gaz. vol. 179; p. 77.
Silk, Degumming. E. Schnurrenberger. No. 1,026,000; May 14; Sp. p. 1986; Gaz. vol. 178; p. 342.

Alphabetical list of inventions—Continued.

Sill-step. F. W. Coolbaugh. No. 1,046,981; Dec. 10; Gaz. vol. 185; p. 449.
Silo. O. Brumbaugh. No. 1,015,612; Jan. 23; Sp. p. 5560; Gaz. vol. 174; p. 952.
Silo. E. Kretchmer. No. 1,016,506; Feb. 6; Sp. p. 620; Gaz. vol. 175; p. 94.
Silo. L. P. Swoverland. No. 1,016,528; Feb. 6; Sp. p. 685; Gaz. vol. 175; p. 108.
Silo. D. S. and E. F. Younce. No. 1,018,540; Feb. 27; Sp. p. 5167; Gaz. vol. 175; p. 899.
Silo. P. B. Naylor. No. 1,019,180; Mar. 5; Sp. p. 389; Gaz. vol. 176; p. 62.
Silo. J. R. Graft. No. 1,021,718; Mar. 26; Sp. p. 5733; Gaz. vol. 176; p. 1030.
Silo. A. Keirle. No. 1,026,516; May 14; Sp. p. 3147; Gaz. vol. 178; p. 519.
Silo. A. O. Hubbard. No. 1,030,404; June 25; Sp. p. 5109; Gaz. vol. 179; p. 911.
Silo. A. O. Hubbard. No. 1,030,405; June 25; Sp. p. 5110; Gaz. vol. 179; p. 911.
Silo. A. O. Hubbard. No. 1,030,406; June 25; Sp. p. 5111; Gaz. vol. 179; p. 911.
Silo. G. H. Horn. No. 1,031,793; July 9; Gaz. vol. 180; p. 370.
Silo. G. H. Horn. No. 1,031,794; July 9; Gaz. vol. 180; p. 370.
Silo. A. C. Ochs. No. 1,032,765; July 16; Gaz. vol. 180; p. 746.
Silo. G. H. Greenfield. No. 1,033,167; July 23; Gaz. vol. 180; p. 918.
Silo. J. Borrusch. No. 1,039,089; Sept. 24; Gaz. vol. 182; p. 731.
Silo. E. I. Poyser. No. 1,041,159; Oct. 15; Gaz. vol. 183; p. 569.
Silo. I. S. Hart. No. 1,042,788; Oct. 29; Gaz. vol. 183; p. 1185.
Silo. N. J. Schlachter. No. 1,043,034; Oct. 29; Gaz. vol. 183; p. 1270.
Silo. W. C. and B. A. Uline. No. 1,047,861; Dec. 17; Gaz. vol. 185; p. 790.
Silo. H. C. Morrow. No. 1,048,724; Dec. 31; Gaz. vol. 185; p. 1148.
Silo-elevator. C. J. Lawless. No. 1,045,301; Nov. 26; Gaz. vol. 184; p. 874.
Silo-hoop-fastening means. C. W. McClure. No. 1,015,815; Jan. 30; Sp. p. 5991; Gaz. vol. 174; p. 1047.
Silo-mold. E. Blumer. No. 1,039,085; Sept. 24; Gaz. vol. 182; p. 729.
Silo-roof construction. C. W. McClure. No. 1,019,334; Mar. 5; Sp. p. 734; Gaz. vol. 176; p. 114.
Silver ores, Reduction of. C. G. Fink. No. 1,013,931; Jan. 9; Sp. p. 1889; Gaz. vol. 174; p. 321.
Silver oxid, Preparing colloidal. J. L. Turner. No. 1,043,646; Nov. 5; Gaz. vol. 184; p. 213.
Sinews from flesh, Device for extracting. A. A. Lamoureux. No. 1,041,308; Oct. 15; Gaz. vol. 183; p. 619.
Singeing instrument, Electric. H. Y. Norwood. No. 1,020,439; Mar. 19; Sp. p. 3036; Gaz. vol. 176; p. 549.
Singeing-machine. W. W. Sibson and T. Allsop. No. 1,046,878; Dec. 10; Gaz. vol. 185; p. 415.
Singeing-machine. T. Allsop and W. W. Sibson. No. 1,047,875; Dec. 17; Gaz. vol. 185; p. 794.
Single-phase motor. W. J. Branson. No. 1,013,119; Jan. 2; Sp. p. 56; Gaz. vol. 174; p. 11.
Single-phase motor. E. F. W. Alexanderson. No. 1,021,289; Mar. 26; Sp. p. 4849; Gaz. vol. 176; p. 885.
Sink. A. W. Keichline. No. 1,047,072; Dec. 10; Gaz. vol. 185; p. 478.
Sink-draining attachment. M. A. Weaver. No. 1,026.537; May 14; Sp. p. 3178; Gaz. vol. 178; p. 526.
Sink draining-table. H. E. M. Kensit. No. 1,046,604; Dec. 10; Gaz. vol. 185; p. 319.
Sink for washing crockery. F. Staines. No. 1,033,961; July 30; Gaz. vol. 180; p. 1212.
Sink-frame bracket. W. J. Daly. No. 1,047,757; Dec. 17; Gaz. vol. 185; p. 754.
Sink, Kitchen-. T. S. Ogle and R. F. Polansky. No. 1,040,392; Oct. 8; Gaz. vol. 183; p. 272.
Sink or basin stopper. P. J. McGuire and H. J. Fronk. No. 1,028,374; June 4; Sp. p. 682; Gaz. vol. 179; p. 103.
Sinker. Z. Pancoast. No. 1,023,676; Apr. 16; Sp. p. 4063; Gaz. vol. 177; p. 713.
Sinker-support. E. A. Pomeroy. No. 1,033,464; July 23; Gaz. vol. 180; p. 1018.
Sintering-furnace. M. H. Kauffman. No. 1,045,853; Dec. 3; Gaz. vol. 185; p. 20.
Siphon. H. L. Bliss. No. 1,025,608; May 7; Sp. p. 1116; Gaz. vol. 178; p. 174.
Siphon. E. M. Johnson. No. 1,031,007; July 2; Gaz. vol. 180; p. 55.
Siphon. J. S. Schoop. No. 1,048,744; Dec. 31; Gaz vol. 185; p. 1155.
Siphon, Alternating. J. W. Cox. No. 1,040,640; Oct. 8; Gaz. vol. 183; p. 363.
Siphon-filler. D. Landau. No. 1,034,628; Aug. 6; Gaz. vol. 181; p. 74.
Siphon-filler. P. Spitzenberg. No. 1,041,364; Oct. 15; Gaz. vol. 183; p. 638.
Siphon-head. P. Spitzenberg. No. 1,037,680; Sept. 3; Gaz. vol. 182; p. 170.
Siphon-head. C. De Lukacsevics. No. 1,040,226; Oct. 1; Gaz. vol. 183; p. 185.
Siphon, Tank-. A. J. Ashford. No. 1,013,719; Jan. 2; Sp. p. 1389; Gaz. vol. 174; p 218.
Siphon, Valveless-tank. I. L. Hammond. No. 1,013,876; Jan. 9; Sp. p. 1763; Gaz. vol. 174; p. 302.
Siphons, Adjustable vent for. S. F. Miller. No. 1,037,791; Sept. 3; Gaz. vol. 182; p. 204.
Siphons and the like, Head or stopper of. J. Dittrich. No. 1,041,445; Oct. 15; Gaz. vol. 183; p. 664.
Siren. M. Roellig. No. 1,036,722; Aug. 27; Gaz. vol. 181; p. 890.
Size. W. A. Weelands and E. Williams. No. 1,015,365; Jan. 23; Sp. p. 5027; Gaz. vol. 174; p. 868.
Size, Wall-. M. Mayer, J. N. Wiggin, and R. W. Cornelison. No. 1,044,405; Nov. 12; Gaz. vol. 184; p. 505.
Sizing agent and making same. F. H. Kalbfleisch. No. 1,029,131; June 11; Sp. p. 2308; Gaz. vol. 179; p. 393.
Sizing or volumetric grading of materials, Method and apparatus for. C. L. McKesson and B. F. Rice. No. 1,044,067; Nov. 12; Gaz. vol. 184; p. 390.
Skate. S. C. Johnson. No. 1,017,551; Feb. 13; Sp. p. 2900; Gaz. vol. 175; p. 490.
Skate carrier, Ice-. A. F. McCollum. No. 1,028,050; May 28; Sp. p. 6496; Gaz. vol. 178; p. 1111.
Skate, Monocycle. M. Schiesari. No. 1,023,882; Apr. 23; Sp. p. 4509; Gaz. vol. 177; p. 808.
Skate, Roller-. J. H. Sheahan. No. 1,016,447; Feb. 6; Sp. p. 483; Gaz. vol. 175; p. 73.
Skate, Roller-. E. F. Mees. No. 1,018,512; Feb. 27; Sp. p. 5098; Gaz. vol. 175; p. 889.
Skate, Roller-. E. C. Kohler. No. 1,020,989; Mar. 26; Sp. p. 4225; Gaz. vol. 176; p. 785.
Skate, Roller-. O. W. Everett. No. 1,021,735; Mar. 26; Sp. p. 5771; Gaz. vol. 176; p. 1036.
Skate, Roller-. J. G. Doak. No. 1,024,835; Apr. 30; Sp. p. 6668; Gaz. vol. 177; p. 1173.
Skate, Roller-. H. Simon. No. 1,026,712; May 21; Sp. p. 3561; Gaz. vol. 178; p. 621.
Skate, Roller-. K. Kohler and F. Floh. No. 1,034,625; Aug. 6; Gaz. vol. 181; p. 74.
Skate, Roller-. C. D. Rice. No. 1,034,649; Aug. 6; Gaz. vol. 181; p. 81.
Skate, Roller-. T. E. King. No. 1,044,187; Nov. 12; Gaz. vol. 184; p. 429.
Skate, Touring-. A. Naumann. No. 1,017,162; Feb. 13; Sp. p. 2073; Gaz. vol. 175; p. 356.
Skate, Two-wheeled roller-. A. J. Mollinger. No. 1,043,958; Nov. 12; Gaz. vol. 184; p. 352.
Skates, Roll for roller-. O. W. Everett. No. 1,021,362; Mar. 26; Sp. p. 4992; Gaz. vol. 176; p. 911.
Skates, Wheel and axle for roller-. T. W. Robinson. No. 1,033,271; July 23; Gaz. vol. 180; p. 955.
Skee, Adjustable. L. W. Greenig and J. O. Fowler. No. 1,013,154; Jan. 2; Sp. p. 131; Gaz. vol. 174; p. 23.
Skee-form protector. C. Nyberg. No. 1,045,594; Nov. 26; Gaz. vol. 184; p. 978.
Skee, Water-. H. J. Anderson. No. 1,014,993; Jan. 16; Sp. p. 4248; Gaz. vol. 174; p. 715.
Skein-reel. G. F. Macfarlane and E. McGroarty. No. 1,027,555; May 28; Sp. p. 5407; Gaz. vol. 178; p. 947.
Skelp-charging machine, Magnetic. S. C. Coey. No. 1,019.759; Mar. 12; Sp. p. 1638; Gaz. vol. 176; p. 285.
Skid. W. V. Ellis. No. 1,036,816; Aug. 27; Gaz. vol. 181; p. 921.
Skimmer. E. I. Hallock. No. 1,028,717; June 4; Sp. p. 1397; Gaz. vol. 179; p. 217.
Skimmer and feed-water heater, Combined oil-. C. Clausen. No. 1,025,863; May 7; Sp. p. 1657; Gaz. vol. 178; p. 260.
Skimmer, Siphon-. C. A. Gilkerson. No. 1,016,938; Feb. 13; Sp. p. 1571; Gaz. vol. 175; p. 278.
Skin-treating apparatus. D. Chestnut. No. 1,017,852; Feb. 20; Sp. p. 3583; Gaz. vol. 175; p. 628.
Skin-treating apparatus. G. T. Jewitt. No. 1,027,545; May 28; Sp. p. 5388; Gaz. vol. 178; p. 944.
Skin-treating device. J. C. Ford. No. 1,027,718; May 28; Sp. p. 5740; Gaz. vol. 178; p. 1000.
Skins and hides for the removal of fat, &c., Treatment of. F. H. E. Lehmann. No. 1,048,709; Dec. 31; Gaz. vol. 185; p. 1143.
Skins, Hardening and waterproofing animal. K. Harttmann. No. 1,016,407; Feb. 6; Sp. p. 380; Gaz. vol. 175; p. 60.
Skins, Producing patterns on hair-covered. P. Merkel. No. 1,042.809; Oct. 29; Gaz. vol. 183; p. 1192.
Skinning small animals, Suspension device for use in. A. G. Heyerdahl. No. 1,027,335; May 21; Sp. p. 4957; Gaz. vol. 178; p. 835.
Skip. L. Callahan. No. 1,033,670; July 23; Gaz. vol. 180; p. 1085.
Skip, Safety-. H. S. Atkinson. No. 1,031,412; July 2; Gaz. vol. 180; p. 198.
Skirt. D. H. Shapiro. No. 1,018,012; Feb. 20; Sp. p. 3955; Gaz. vol. 175; p. 684.
Skirt. H. N. Freedman. No. 1,022,410; Apr. 9; Sp. p. 1370; Gaz. vol. 177; p. 251.
Skirt. J. Fox. No. 1,031,112; July 2; Gaz. vol. 180; p. 94.
Skirt. L. M. Savage. No. 1,037,331; Sept. 3; Gaz. vol. 182; p. 51.

Alphabetical list of inventions—Continued.

Skirt. J. A. Herman. No. 1,038,134; Sept. 10; Gaz. vol. 182; p. 353.
Skirt and blouse grip, Combined. G. Mathew. No. 1,040,228; Oct. 1; Gaz. vol. 183; p. 186.
Skirt and waist retainer. H. Giles. No. 1,048,405; Dec. 24; Gaz. vol. 185; p. 999.
Skirt-band fastener. R. H. Pratt. No. 1,043,866; Nov. 12; Gaz. vol. 184; p. 319.
Skirt-elevator. A. E. Williams. No. 1,039,871; Oct. 1; Gaz. vol. 183; p. 68.
Skirt-holder. H. Dubbs. No. 1,049,062; Dec. 31; Gaz. vol. 185; p. 1265.
Skirt, Lady's. A. Freedman. No. 1,033,066; July 16; Gaz. vol. 180; p. 846.
Skirt-marker. L. Becker. No. 1,020,250; Mar. 12; Sp. p. 2650; Gaz. vol. 176; p. 449.
Skirt-marker. A. A. Hall. No. 1,023,842; Apr. 23; Sp. p. 4426; Gaz. vol. 177; p. 795.
Skirt-marker. B. Shapiro. No. 1,025,951; May 7; Sp. p. 1883; Gaz. vol. 178; p. 289.
Skirt-marker. E. Levin. No. 1,035,453; Aug. 13; Gaz. vol. 181; p. 387.
Skirt-marker. H. E. Snyder. No. 1,040,449; Oct. 8; Gaz. vol. 183; p. 291.
Skirt-marker. M. Anderson. No. 1,041,400; Oct. 15; Gaz. vol. 183; p. 649.
Skirt-marker. C. M. Padelford. No. 1,045,430; Nov. 26; Gaz. vol. 184; p. 919.
Skirt-marker, Skeleton. J. D. Baird. No. 1,048,929; Dec. 31; Gaz. vol. 185; p. 1219.
Skirt-rack. J. A. Douglass. No. 1,034,892; Aug. 6; Gaz. vol. 181; p. 165.
Skirt, Sanitary protecting-. J. M. O'Connor and I. G. Wier. No. 1,037,514; Sept. 3; Gaz. vol. 182; p. 115.
Skirt-weight. S. Paull. No. 1,037,518; Sept. 3; Gaz. vol. 182; p. 116.
Skittle-grounds, Making. O. K. A. Manthe. No. 1,027,872; May 28; Sp. p. 6135; Gaz. vol. 178; p. 1053.
Skiving-machine. W. A. Parmenter and A. B. Alden. (Reissue.) No. 13,355; Jan. 9; Sp. p. 3418; Gaz. vol. 174; p. 565.
Skiving-machine. L. W. G. Flynt. No. 1,015,882; Jan. 30; Sp. p. 6136; Gaz. vol. 174; p. 1071.
Skiving-machine. A. M. Alexander. No. 1,017,195; Feb. 13; Sp. p. 2149; Gaz. vol. 175; p. 367.
Skiving-machine. L. W. G. Flynt. No. 1,017,963; Feb. 20; Sp. p. 3854; Gaz. vol. 175; p. 668.
Skiving-machine. C. A. Hirth. No. 1,018,493; Feb. 27; Sp. p. 5015; Gaz. vol. 175; p. 882.
Skiving-machine. F. L. Harmon. No. 1,024,569; Apr. 30; Sp. p. 6101; Gaz. vol. 177; p. 1079.
Skiving-machine. E. F. Davenport. No. 1,029,176; June 11; Sp. p. 2396; Gaz. vol. 179; p. 408.
Skiving-machine. F. A. Thurston. No. 1,031,301; July 2; Gaz. vol. 180; p. 160.
Skiving-machine. W. J. Young. No. 1,033,366; July 23; Gaz. vol. 180; p. 987.
Skiving-machine. W. A. Parmenter and A. B. Alden. No. 1,035,228; Aug. 13; Gaz. vol. 181; p. 307.
Skylight. C. Yauch. No. 1,035,509; Aug. 13; Gaz. vol. 181; p. 405.
Skylight. H. U. Rogness. No. 1,043,870; Nov. 12; Gaz. vol. 184; p. 320.
Skylight. W. H. Branzell. No. 1,044,740; Nov. 19; Gaz. vol. 184; p. 651.
Skylight-bar. C. Schroeder. No. 1,016,856; Feb. 6; Sp. p. 1377; Gaz. vol. 175; p. 212.
Slabs or blocks, Device for securing. E. Diebitsch. No. 1,027,188; May 21; Sp. p. 4664; Gaz. vol. 178; p. 784.
Slack-adjuster. S. P. Gomella. No. 1,045,833; Dec. 3; Gaz. vol. 185; p. 13.
Slag, Disintegrating molten. J. G. Bergquist. No. 1,047,370; Dec. 17; Gaz. vol. 185; p. 617.
Slasher. L. A. Aumann. No. 1,014,361; Jan. 9; Sp. p. 2844; Gaz. vol. 174; p. 470.
Slate-cleaner. A. Breider. No. 1,015,539; Jan. 23; Sp. p. 5400; Gaz. vol. 174; p. 925.
Slate-picker. F. H. Emery. No. 1,013,647; Jan. 2; Sp. p. 1227; Gaz. vol. 174; p. 193.
Slate-picker. C. S. Farrer. No. 1,032,477; July 16; Gaz. vol. 180; p. 646.
Slaughtering device, Animal-. H. B. Hoeckelberg. No. 1,021,523; Mar. 26; Sp. p. 5379; Gaz. vol. 176; p. 968.
Sled. C. D. Orcutt. No. 1,019,349; Mar. 5; Sp. p. 774; Gaz. vol. 176; p. 119.
Sled. F. Hornquist. No. 1,036,245; Aug. 20; Gaz. vol. 181; p. 696.
Sled. J. C. Van Aken. No. 1,040,061; Oct. 1; Gaz. vol. 183; p. 130.
Sled. R. E. Miller. No. 1,041,324; Oct. 15; Gaz. vol. 183; p. 625.
Sled attachment. S. O. Arnold. No. 1,047,141; Dec. 17; Gaz. vol. 185; p. 533.
Sled, Automobile. R. Carroll. No. 1,045,771; Nov. 26; Gaz. vol. 184; p. 1041.
Sled, Bob-. B. W. Whitney. No. 1,026,014; May 14; Sp. p. 2009; Gaz. vol. 178; p. 347.
Sled brake, Bob-. S. B. McIntire. No. 1,043,022; Oct. 29; Gaz. vol. 183; p. 1266.
Sled, Collapsible. J. M. Evans. No. 1,030,170; June 18; Sp. p. 4559; Gaz. vol. 179; p. 788.
Sled, Flexible. R. A. Leslie. No. 1,031,277; July 2; Gaz. vol. 180; p. 151.
Sled, Folding. O. Crutchfield. No. 1,013,132; Jan. 2; Sp. p. 85; Gaz. vol. 174; p. 15.
Sled, Folding. D. G. Hammond. No. 1,040,193; Oct. 1; Gaz. vol. 183; p. 174.
Sled, Hauling-. C. Block. No. 1,029,661; June 18; Sp. p. 3448; Gaz. vol. 179; p. 612.
Sled ice-brake. C. W. Stengel and E. T. Witchel. No. 1,035,650; Aug. 13; Gaz. vol. 181; p. 453.
Sled, Power-propelled. A. Reichenstein. No. 1,023,965; Apr. 23; Sp. p. 4713; Gaz. vol. 177; p. 836.
Sled-runner. H. J. Miller. No. 1,034,134; July 30; Gaz. vol. 180; p. 1272.
Sled runner, Bob-. J. H. Anderson. No. 1,020,120; Mar. 12; Sp. p. 2376; Gaz. vol. 176; p. 406.
Sleep-prolonging device. H. M. S. Bullock. No. 1,047,163; Dec. 17; Gaz. vol. 185; p. 542.
Sleeper. G. Dorffel. No. 1,021,666; Mar. 26; Sp. p. 5533; Gaz. vol. 176; p. 1013.
Sleeper, Ferroconcrete. A. Henry. No. 1,036,234; Aug. 20; Gaz. vol. 181; p. 692.
Sleeping-bag. G. W. Gail, Jr. No. 1,039,509; Sept. 24; Gaz. vol. 182; p. 879.
Sleeve, Garment-. A. Goldberg. No. 1,046,173; Dec. 3; Gaz. vol. 185; p. 128.
Sleeve, Splicing-. J. Riddell. No. 1,016,095; Jan. 30; Sp. p. 6606; Gaz. vol. 174; p. 1147.
Sleeve, Wear-compensating. W. S. Tothill. No. 1,043,171; Nov. 5; Gaz. vol. 184; p. 45.
Sleeves, Shield attachment for. M. M. Rogers. No. 1,037,666; Sept. 3; Gaz. vol. 182; p. 165.
Sleigh. M. Diener and C. F. Urban. No. 1,026,023; May 14; Sp. p. 2025; Gaz. vol. 178; p. 350.
Sleigh. F. Ruebenhagen. No. 1,032,299; July 9; Gaz. vol. 180; p. 542.
Sleigh. J. G. Stoen. No. 1,034,529; Aug. 6; Gaz. vol. 181; p. 43.
Sleigh attachment. W. Beilstein. No. 1,038,716; Sept. 17; Gaz. vol. 182; p. 589.
Sleigh-brake. G. Brisson. No. 1,019,944; Mar. 12; Sp. p. 2009; Gaz. vol. 176; p. 347.
Sleigh-runner. J. A. Marken. No. 1,033,183; July 23; Gaz. vol. 180; p. 925.
Sleigh runner, Motor-. R. S. Haight. No. 1,044,646; Nov. 19; Gaz. vol. 184; p. 618.
Sleigh side frame. P. H. Cummins. No. 1,040,897; Oct. 8; Gaz. vol. 183; p. 445.
Slicer and grater, Vegetable. W. E. Petchuck. No. 1,017,586; Feb. 13; Sp. p. 2962; Gaz. vol. 175; p. 500.
Slicer, Bread-. A. Jackson. No. 1,033,406; July 23; Gaz. vol. 180; p. 1000.
Slicer, Food-. H. Barry. No. 1,013,361; Jan. 2; Sp. p. 600; Gaz. vol. 174; p. 96.
Slicer, Fruit-. F. G. Mower. No. 1,044,070; Nov. 12; Gaz. vol. 184; p. 391.
Slicer, Fruit and vegetable. C. E. Royer and A. A. Rickert. No. 1,040,582; Oct. 8; Gaz. vol. 183; p. 339.
Slicer, Vegetable-. W. Bush. No. 1,021,968; Apr. 2; Sp. p. 468; Gaz. vol. 177; p. 75.
Slicer, Vegetable-. L. Pysher. No. 1,039,800; Oct. 1; Gaz. vol. 183; p. 44.
Slicing board, Bread-. E. Hilker. No. 1,031,117; July 2; Gaz. vol. 180; p. 95.
Slicing-machine. E. A. Hand. No. 1,014,595; Jan. 9; Sp. p. 3274; Gaz. vol. 174; p. 546.
Slicing-machine. F. Graff. No. 1,016,008; Jan. 30; Sp. p. 6411; Gaz. vol. 174; p. 1115.
Slicing-machine. A. R. Luschka. No. 1,044,895; Nov. 19; Gaz. vol. 184; p. 705.
Slicing-machine. W. A. Lorenz. No. 1,049,245; Dec. 31; Gaz. vol. 185; p. 1326.
Slicing machine, Foodstuff-. F. Clerc. No. 1,026,495; May 14; Sp. p. 3098; Gaz. vol. 178; p. 511.
Slicing machine, Meat-. C. A. Spotz. No. 1,042,165; Oct. 22; Gaz. vol. 183; p. 942.
Slicing-machine support, Meat-. F. D. Fader. No. 1,013,756; Jan. 2; Sp. p. 1473; Gaz. vol. 174; p. 232.
Slicing machines, Double-knife box for beet-root-. M. Paschen. No. 1,040,003; Oct. 1; Gaz. vol. 183; p. 111.
Slicing machines, Meat-clamp for meat-. J. C. Van Berkel. No. 1,017,274; Feb. 13; Sp. p. 2322; Gaz. vol. 175; p. 395.
Slicing machines, Rind-removing attachment for meat-. E. M. and T. H. Stiles. No. 1,028,796; June 4; Sp. p. 1560; Gaz. vol. 179; p. 244.
Slide-rest. G. R. Kacsmarik. No. 1,036,257; Aug. 20; Gaz. vol. 181; p. 700.
Sliding block. J. W. Roberts. No. 1,039,807; Oct. 1; Gaz. vol. 183; p. 47.
Sliding gate. P. Zerbino. No. 1,028,315; June 4; Sp. p. 550; Gaz. vol. 179; p. 81.
Sliding-jaw wrench. S. S. Rogers. No. 1,034,303; July 30; Gaz. vol. 180; p. 1331.
Slime-concentrator. E. C. Porter. No. 1,024,359; Apr. 23; Sp. p. 5541; Gaz. vol. 177; p. 971.
Slip-holder. D. H. McPherson. No. 1,039,571; Sept. 24; Gaz. vol. 182; p. 901.
Slipper. A. Horvitz. No. 1,037,007; Aug. 27; Gaz. vol. 181; p. 986.

Alphabetical list of inventions—Continued.

Slipper with removable counter. A. Hale. No. 1,027,249; May 21; Sp. p. 4786; Gaz. vol. 178; p. 806.
Slipping, Device to prevent. W. S. Williams, Jr. No. 1,042,516; Oct. 29; Gaz. vol. 183; p. 1090.
Slitting and folding machine. H. I. Illingworth. No. 1,033,247; July 23; Gaz. vol. 180; p. 947.
Slitting and winding mechanism. P. Hellberg. No. 1,013,490; Jan. 2; Sp. p. 879; Gaz. vol. 174; p. 140.
Slitting-machine. N. E. Clark. No. 1,037,204; Sept. 3; Gaz. vol. 182; p. 9.
Sliver-guide. O. L. Owen. No. 1,047,438; Dec. 17; Gaz. vol. 185; p. 640.
Slot-closing device. J. B. Jones. No. 1,037,631; Sept. 3; Gaz. vol. 182; p. 151.
Slot-guard. M. F. Williams and E. H. Frickey. No. 1,025,177; May 7; Sp. p. 151; Gaz. vol. 178; p. 25.
Slots, Forming undercut. W. Lewis. No. 1,014,658; Jan. 16; Sp. p. 3499; Gaz. vol. 174; p. 599.
Slotting-machine. R. L. Wilcox. No. 1,029,653; June 18; Sp. p. 3425; Gaz. vol. 179; p. 609.
Slub-catcher and tension device. C. Corley. No. 1,035,690; Aug. 13; Gaz. vol. 181; p. 466.
Sludge-table. O. W. Dunham. No. 1,023,009; Apr. 9; Sp. p. 2671; Gaz. vol. 177; p. 456.
Slugging or nailing machine. M. T. Denne. No. 1,029,108; June 11; Sp. p. 2257; Gaz. vol. 179; p. 385.
Sluice and flood gate. H. Davey. No. 1,040,158; Oct. 1; Gaz. vol. 183; p. 163.
Sluice-gate. W. Van den Heuvel. No. 1,028,640; June 4; Sp. p. 1244; Gaz. vol. 179; p. 191.
Sluice-gate. H. F. Parshall. No. 1,046,012; Dec. 3; Gaz. vol. 185; p. 72.
Small-arm. G. Vander Haeghen. No. 1,024,932; Apr. 30; Sp. p. 6870; Gaz. vol. 177; p. 1207.
Small-arm. G. Vander Haeghen. No. 1,024,933; Apr. 30; Sp. p. 6872; Gaz. vol. 177; p. 1207.
Small-arm. H. Borchardt. No. 1,025,733; May 7; Sp. p. 1385; Gaz. vol. 178; p. 216.
Small-arm. P. Mauser. No. 1,040,718; Oct. 8; Gaz. vol. 183; p. 389.
Small-arms, Ejecting mechanism for drop-down. W. Baker. No. 1,035,940; Aug. 20; Gaz. vol. 181; p. 588.
Small-arms, Electric ignition device for. G. Peuble. No. 1,043,719; Nov. 5; Gaz. vol. 184; p. 237.
Small-arms, Foresight for. R. de Bertouch. No. 1,043,678; Nov. 5; Gaz. vol. 184; p. 224.
Small-arms, Practice apparatus for. H. B. Hollifield. No. 1,016,150; Jan. 30; Sp. p. 6700; Gaz. vol. 174; p. 1164.
Smelter. A. R. Partridge. No. 1,025,922; May 7; Sp. p. 1818; Gaz. vol. 178; p. 281.
Smelter-furnace. W. M. Nesbit and E. Pike. No. 1,027,882; May 28; Sp. p. 6150; Gaz. vol. 178; p. 1056.
Smelting-furnace. G. P. Gibson. No. 1,032,599; July 16; Gaz. vol. 180; p. 687.
Smelting-furnace. W. H. Dow. No. 1,032,745; July 16; Gaz. vol. 180; p. 739.
Smelting-furnace, Hydro-electric. A. Tommasini. No. 1,048,603; Dec. 31; Gaz. vol. 185; p. 1105.
Smelting furnace, Regenerative zinc-. J. Zellweger. No. 1,028,417; June 4; Sp. p. 775; Gaz. vol. 179; p. 117.
Smelting-furnace with electric refining-hearths connected thereto. A. Helfenstein. No. 1,015,439; Jan. 23; Sp. p. 5193; Gaz. vol. 174; p. 892.
Smelting ores and apparatus therefor, Process of. R. Fleming. No. 1,020,546: Mar. 19; Sp. p. 3262; Gaz. vol. 176; p. 584.
Smelting sulfid ores. A. Haggenmiller. No. 1,021,096; Mar. 26; Sp. p. 4432; Gaz. vol. 176; p. 820.
Smelting sulfid ores. S. B. Ladd. No. 1,035,608; Aug. 13; Gaz. vol. 181; p. 439.
Smoke and carbon consumer. S. Heath. No. 1,038,882; Sept. 17; Gaz. vol. 182; p. 647.
Smoke and cinder conductor for locomotives. S. Wheeler. No. 1,042,631; Oct. 29; Gaz. vol. 183; p. 1131.
Smoke and gas consumer for locomotives. D. Goff. No. 1,014,387; Jan. 9; Sp. p. 2895; Gaz. vol. 174; p. 479.
Smoke and spark destroyer. G. H. Guild. No. 1,016,491; Feb. 6; Sp. p. 579; Gaz. vol. 175; p. 90.
Smoke and ventilation shaft, Combined. F. Schofer. No. 1,023,530; Apr. 16; Sp. p. 3772; Gaz. vol. 177; p. 667.
Smoke-bell. M. S. Dambach. No. 1,027,186; May 21; Sp. p. 4660; Gaz. vol. 178; p. 783.
Smoke-box door. D. Sammel. No. 1,022,757; Apr. 9; Sp. p. 2167; Gaz. vol. 177; p. 371.
Smoke-burner. E. C. Jones and C. J. Arnold. No. 1,019,797; Mar. 12; Sp. p. 1707; Gaz. vol. 176; p. 298.
Smoke-burner, Sectional. R. C. Wade. No. 1,033,134; July 23; Gaz. vol. 180; p. 908.
Smoke-consumer. J. Markus. No. 1,022,857; Apr. 9; Sp. p. 2361; Gaz. vol. 177; p. 404.
Smoke-consumer. M. E. Reed. No. 1,035,741; Aug. 13; Gaz. vol. 181; p. 482.
Smoke-consumer. C. E. Patrick. No. 1,036,320; Aug. 20; Gaz. vol. 181; p. 722.
Smoke-consumer. R. G. Speer. No. 1,039,205; Sept. 24; Gaz. vol. 182; p. 771.
Smoke-consumer. J. H. Tate. No. 1,041,899; Oct. 22; Gaz. vol. 183; p. 855.
Smoke-consumer. L. R. Fehr. No. 1,045,270; Nov. 26; Gaz. vol. 184; p. 864.
Smoke-consumer. H. B. Kerruish. No. 1,046,196; Dec. 3; Gaz. vol. 185; p. 136.
Smoke-consumer. T. Crawford. No. 1,048,297; Dec. 24; Gaz. vol. 185; p. 962.
Smoke-consumer. C. W. Johns. No. 1,049,100; Dec. 31; Gaz. vol. 185; p. 1278.
Smoke-consumer and vaporizer, Combined. O. Davis. No. 1,014,573; Jan. 9; Sp. p. 3234; Gaz. vol. 174; p. 538.
Smoke-consuming and fuel-economizing apparatus for furnaces, &c. J. Thomas. No. 1,030,142; June 18; Sp. p. 4504; Gaz. vol. 179; p. 778.
Smoke-consuming apparatus. H. N. Martin. No. 1,045,577; Nov. 26; Gaz. vol. 184; p. 973.
Smoke-consuming device. D. Townsend. No. 1,044,297; Nov. 12; Gaz. vol. 184; p. 468.
Smoke-consuming furnace. R. G. Speer. No. 1,015,746; Jan. 23; Sp. p. 5852; Gaz. vol. 174; p. 997.
Smoke-consuming furnace. M. L. Krueger. No. 1,018,830; Feb. 27; Sp. p. 5778; Gaz. vol. 175; p. 998.
Smoke-consuming furnace. S. O. Berg. No. 1,043,895; Nov. 12; Gaz. vol. 184; p. 329.
Smoke-consuming furnace. J. G. Gracey and E. E. Squier. No. 1,049,079; Dec. 31; Gaz. vol. 185; p. 1271.
Smoke, Destruction and deodorization of. J. Kindermann. No. 1,024,204; Apr. 23; Sp. p. 5253; Gaz. vol. 177; p. 920.
Smoke-diluter. N. Benincasa. No. 1,038,270; Sept. 10; Gaz. vol. 182; p. 400.
Smoke elevator and concentrator. W. F. Geyer. No. 1,029,438; June 11; Sp. p. 2986; Gaz. vol. 179; p. 500.
Smoke-house. E. T. Malloy. No. 1,016,698; Feb. 6; Sp. p. 1054; Gaz. vol. 175; p. 162.
Smoke-jack for engine-houses. W. Sclater. No. 1,026,931; May 21; Sp. p. 4062; Gaz. vol. 178; p. 696.
Smoke-neutralizer. F. White. No. 1,027,951; May 28; Sp. p. 6278; Gaz. vol. 178; p. 1079.
Smoke-preventer. O. G. Warnke. No. 1,048,245; Dec. 24; Gaz. vol. 185; p. 943.
Smoke-purifier and dust-collector. A. Gowder. No. 1,024,326; Apr. 23; Sp. p. 5485; Gaz. vol. 177; p. 962.
Smoke-ring blower. E. F. Kelly. No. 1,013,296; Jan. 2; Sp. p. 467; Gaz. vol. 174; p. 73.
Smoke-separator. J. Dvorak. No. 1,017,394; Feb. 13; Sp. p. 2573; Gaz. vol. 175; p. 436.
Smoke-stack. H. C. Todd and C. Mayr. No. 1,045,459; Nov. 26; Gaz. vol. 184; p. 931.
Smoke-suspended matter, Apparatus for separating. H. E. Anderson. No. 1,038,513; Sept. 17; Gaz. vol. 182; p. 517.
Smoker's pipe. R. T. Morris. No. 1,025,639; May 7; Sp. p. 1198; Gaz. vol. 178; p. 184.
Smoker's stand. J. H. Astruck. No. 1,043,386; Nov. 5; Gaz. vol. 184; p. 122.
Smoker's utensil. J. H. Astruck. No. 1,043,388; Nov. 5; Gaz. vol. 184; p. 123.
Smokestacks, Adjustable cowl for. F. J. Andrews. No. 1,013,358; Jan. 2; Sp. p. 594; Gaz. vol. 174; p. 95.
Smoking device. H. E. Coates. No. 1,017,384; Feb. 13; Sp. p. 2551; Gaz. vol. 175; p. 431.
Smoking-pipe. F. Marzak. No. 1,018,841; Feb. 27; Sp. p. 5794; Gaz. vol. 175; p. 1001.
Smoking-pipe. F. Ansley. No. 1,021,963; Apr. 2; Sp. p. 460; Gaz. vol. 177; p. 73.
Smoking-pipe. D. H. Sibbett. No. 1,033,482; July 23; Gaz. vol. 180; p. 1024.
Smoking-pipe. J. F. Leeper. No. 1,034,717; Aug. 6; Gaz. vol. 181; p. 105.
Smoking-pipe. J. Glossinger. No. 1,038,564; Sept. 17; Gaz. vol. 182; p. 535.
Smoking-pipe. W. C. Ranson. No. 1,043,869; Nov. 12; Gaz. vol. 184; p. 320.
Smoking-pipe. W. H. Galvin. No. 1,046,383; Dec. 3; Gaz. vol. 185; p. 204.
Smoking-pipe case. J. Glossinger. No. 1,033,312; July 23; Gaz. vol. 180; p. 969.
Smoking-pipe cleaner. C. Knoth and F. Whitecar. No. 1,025,142; May 7; Sp. p. 66; Gaz. vol. 178; p. 12.
Smoking-pipe shield. C. Siebenhausen. No. 1,027,916; May 28; Sp. p. 6224; Gaz. vol. 178; p. 1068.
Smoothing and glazing sad-iron, Combined. H. Fletcher. No. 1,016,879; Feb. 6; Sp. p. 1421; Gaz. vol. 175; p. 220.
Smudge mixer and sacker. C. H. Burford and F. H. Nett. No. 1,027,317; May 21; Sp. p. 4927; Gaz. vol. 178; p. 829.
Smut-machine. S. N. Sorensen. No. 1,023,888; Apr. 23; Sp. p. 4526; Gaz. vol. 177; p. 810.
Smut-machine. G. O. Rund. No. 1,027,906; May 28; Sp. p. 6207; Gaz. vol. 178; p. 1065.
Snap-bolls, Apparatus for treating. J. A. Shields. No. 1,013,690; Jan. 2; Sp. p. 1342; Gaz. vol. 174; p. 208.
Snap-bolls of cotton, Treating. J. A. Shields. No. 1,013,691; Jan. 2; Sp. p. 1344; Gaz. vol. 174; p. 209.
Snap-flask for molding. C. Jurack. No. 1,041,292; Oct. 15; Gaz. vol. 183; p. 615.
Snap-hook. W. R. Yeagle. No. 1,025,666; May 7; Sp. p. 1249; Gaz. vol. 178; p. 193.
Snap-hook. V. F. Nelson. No. 1,026,452; May 14; Sp. p. 3014; Gaz. vol. 178; p. 497.
Snap-hook. J. H. Baker. No. 1,034,755; Aug. 6; Gaz. vol. 181; p. 118.

Alphabetical list of inventions—Continued.

Snap-hook. J. B. Baxter. No. 1,044,975; Nov. 19; Gaz. vol. 184; p. 733.
Snap-hook. J. B. Baxter. No. 1,047,150; Dec. 17; Gaz. vol. 185; p. 536.
Snap-hook, Safety. H. P. Hanson. No. 1,022,940; Apr. 9; Sp. p. 2553; Gaz. vol. 177; p. 433.
Snap-hook, Safety. S. W. Reynolds. No. 1,040,415; Oct. 8; Gaz. vol. 183; p. 280.
Snap-mold jacket. E. H. Putnam. No. 1,026,700; May 21; Sp. p. 3540; Gaz. vol. 178; p. 617.
Snap, Safety-. J. N. Cutler. No. 1,025,787; May 7; Sp. p. 1484; Gaz. vol. 178; p. 235.
Snap-switch. F. C. De Reamer. No. 1,022,536; Apr. 9; Sp. p. 1650; Gaz. vol. 177; p. 293.
Snap-switch, Pendent. F. C. De Reamer. No. 1,015,999; Jan. 30; Sp. p. 6392; Gaz. vol. 174; p. 1112.
Snap-switch, Rotary. C. D. Platt. No. 1,021,208; Mar. 26; Sp. p. 4668; Gaz. vol. 176; p. 856.
Snare strainer and muffler. W. F. Ludwig. No. 1,042,806; Oct. 29; Gaz. vol. 183; p. 1191.
Snatch-block. J. W. Davis. No. 1,017,652; Feb. 20; Sp. p. 3096; Gaz. vol. 175; p. 560.
Snatch-block. W. Trewhella. No. 1,022,569; Apr. 9; Sp. p. 1720; Gaz. vol. 177; p. 304.
Snell-fastener. P. H. Klersy. No. 1,047,654; Dec. 17; Gaz. vol. 185; p. 718.
Snipping-machine. L. W. G. Flynt. No. 1,029,058; June 11; Sp. p. 2144; Gaz. vol. 179; p. 369.
Snipping-machine. T. F. Hart. No. 1,040,671; Oct. 8; Gaz. vol. 183; p. 373.
Snow-plow. J. Buffehr. No. 1,016,669; Feb. 6; Sp. p. 1001; Gaz. vol. 175; p. 151.
Snow-plow. S. Sutcliffe. No. 1,020,727; Mar. 19; Sp. p. 3670; Gaz. vol. 176; p. 646.
Snow-plow. F. J. Hayward. No. 1,021,928; Apr. 2; Sp. p. 365; Gaz. vol. 177; p. 60.
Snow-shovel. F. E. Kohler. No. 1,042,352; Oct. 22; Gaz. vol. 183; p. 1004.
Snowmobile attachment. F. Borg and E. W. Lantz. No. 1,015,270; Jan. 16; Sp. p. 4798; Gaz. vol. 174; p. 808.
Soaking-pit. H. E. Smythe. No. 1,044,093; Nov. 12; Gaz. vol. 184; p. 399.
Soap and making same, Hydrocarbon. P. G. List and G. Schmidt. No. 1,040,708; Oct. 8; Gaz. vol. 183; p. 385.
Soap and towel dispenser, Sanitary. R. F. Downey. No. 1,041,710; Oct. 15; Gaz. vol. 183; p. 752.
Soap cake. W. Haddow. No. 1,026,438; May 14; Sp. p. 2973; Gaz. vol. 178; p. 492.
Soap, Disinfecting-. M. Engelmann. No. 1,027,707; May 28; Sp. p. 5724; Gaz. vol. 178; p. 997.
Soap-dispenser. M. Bohlig. No. 1,041,417; Oct. 15; Gaz. vol. 183; p. 655.
Soap-dispenser. G. P. Van Wye. No. 1,048,919; Dec. 31; Gaz. vol. 185; p. 1215.
Soap-dispensing machine. W. Haddow. No. 1,015,620; Jan. 23; Sp. p. 5579; Gaz. vol. 174; p. 956.
Soap-dispensing machine. W. Haddow. No. 1,015,678; Jan. 23; Sp. p. 5701; Gaz. vol. 174; p. 974.
Soap-dispensing machine. W. Haddow. No. 1,026,644; May 14; Sp. p. 3409; Gaz. vol. 178; p. 561.
Soap-dispensing machine. G. F. Shaver. No. 1,027,218; May 21; Sp. p. 4731; Gaz. vol. 178; p. 795.
Soap-dispensing machine. C. H. J. Dilg and J. O. Fowler. No. 1,037,821; Sept. 3; Gaz. vol. 182; p. 214.
Soap-dispensing machine. G. F. Shaver. No. 1,038,214; Sept. 10; Gaz. vol. 182; p. 379.
Soap-filling machine. R. Balhorn. No. 1,028,658; June 4; Sp. p. 1283; Gaz. vol. 179; p. 197.
Soap fountain, Liquid-. N. S. Hillyard. No. 1,020,758; Mar. 19; Sp. p. 3734; Gaz. vol. 176; p. 655.
Soap-handle. S. Manheim. No. 1,027,208; May 21; Sp. p. 4710; Gaz. vol. 178; p. 791.
Soap-holder. D. Boutell. No. 1,034,187; July 30; Gaz. vol. 180; p. 1291.
Soap-holder. B. M. Dawson. No. 1,036,463; Aug. 20; Gaz. vol. 181; p. 770.
Soap-lather generating and applying device. C. E. Arundel. No. 1,023,708; Apr. 16; Sp. p. 4115; Gaz. vol. 177; p. 722.
Soap-machines, Automatic feeding device for. L. J. Doolittle. No. 1,041,754; Oct. 22; Gaz. vol. 183; p. 803.
Soap, Manufacture of resin. H. G. Schanche and F. S. Havens. No. 1,017,692; Feb. 20; Sp. p. 3180; Gaz. vol. 175; p. 573.
Soap, Manufacture of resin. H. G. Schanche. No. 1,017,693; Feb. 20; Sp. p. 3182; Gaz. vol. 175; p. 573.
Soap powder, Machine for making. W. M. Schwartz and E. B. Ayres. No. 1,033,737; July 23; Gaz. vol. 180; p. 1106.
Soap powders, Making. C. Ellis. No. 1,040,530; Oct. 8; Gaz. vol. 183; p. 320.
Soap-press. J. A. Keyes. No. 1,018,426; Feb. 27; Sp. p. 4853; Gaz. vol. 175; p. 859.
Soap-press. B. H. Becker and J. Ciesla. No. 1,021,126; Mar. 26; Sp. p. 4497; Gaz. vol. 176; p. 829.
Soap-shaving machine. H. R. Evans. No. 1,045,828; Dec. 3; Gaz. vol. 185; p. 11.
Soap-supplier. C. H. J. Dilg and J. O. Fowler, Jr. No. 1,037,456; Sept. 3; Gaz. vol. 182; p. 96.
Soaps and cleansing compositions, Organic-chloro-compound. G. Koller. No. 1,038,900; Sept. 17; Gaz. vol. 182; p. 653.
Socket, Adjustable extension-. R. B. Benjamin. No. 1,038,070; Sept. 10; Gaz. vol. 182; p. 333.
Socket, Connecting-. U. G. Beatty. No. 1,034,338; July 30; Gaz. vol. 180; p. 1343.
Socket-cover and shade-holder, Combined. C. W. Lucas. No. 1,033,427; July 23; Gaz. vol. 180; p. 1006.
Socket-joint. R. H. Brown. No. 1,024,615; Apr. 30; Sp. p. 6204; Gaz. vol. 177; p. 1095.
Socket-shell. T. A. C. Both. No. 1,024,671; Apr. 30; Sp. p. 6324; Gaz. vol. 177; p. 1114.
Socket-switch. W. G. Peet. No. 1,037,304; Sept. 3; Gaz. vol. 182; p. 42.
Socket-wrench. C. P. Bronson. No. 1,034,383; July 30; Gaz. vol. 180; p. 1360.
Socket-wrench, Adjustable. J. A. Olson, Jr. No. 1,046,216; Dec. 3; Gaz. vol. 185; p. 144.
Socket-wrench for headless screws. W. Köllermeyer. No. 1,048,178; Dec. 24; Gaz. vol. 185; p. 924.
Sod-cutter. W. Torrance. No. 1,013,332; Jan. 2; Sp. p. 541; Gaz. vol. 174; p. 86.
Sod-cutter. W. H. Laude. No. 1,018,064; Feb. 20; Sp. p. 4089; Gaz. vol. 175; p. 703.
Sod-cutter. H. S. Urban. No. 1,020,230; Mar. 12; Sp. p. 2619; Gaz. vol. 176; p. 444.
Sod-cutter. T. O. Rolfson. No. 1,043,729; Nov. 5; Gaz. vol. 184; p. 241.
Sod-trimmer. N. Nelson. No. 1,033,612; July 23; Gaz. vol. 180; p. 1067.
Soda-calciner. G. H. Marshall. No. 1,014,314; Jan. 9; Sp. p. 2718; Gaz. vol. 174; p. 453.
Soda-fountain. F. E. Lippincott. No. 1,024,515; Apr. 30; Sp. p. 5945; Gaz. vol. 177; p. 1061.
Soda-fountain. E. R. Glenn. No. 1,027,472; May 28; Sp. p. 5241; Gaz. vol. 178; p. 919.
Soda, Obtaining carbonate of. N. Wrinkle and R. G. Paddock. No. 1,016,239; Jan. 30; Sp. p. 6869; Gaz. vol. 174; p. 1193.
Sodic-silico aluminate and hydrochloric acid, Manufacturing. A. H. Cowles. No. 1,041,598; Oct. 15; Gaz. vol. 183; p. 713.
Sodic-silico aluminate and hydrochloric acid, Manufacturing. A. H. Cowles and A. Kayser. No. 1,041,599; Oct. 15; Gaz. vol. 183; p. 713.
Sodium-aluminum fluorid, Making. E. Teisler. No. 1,015,220; Jan. 16; Sp. p. 4680; Gaz. vol. 174; p. 790.
Sodium bicarbonate and organic substances from soda-pulp-waste liquor, Making. E. L. Rinman. No. 1,045,889; Dec. 3; Gaz. vol. 185; p. 32.
Sofa chair and couch, Convertible. J. Kronheim and Z. B. Csiky. No. 1,043,112; Nov. 5; Gaz. vol. 184; p. 23.
Soffit-clip. G. E. Escher. No. 1,028,559; June 4; Sp. p. 1084; Gaz. vol. 179; p. 165.
Soil-pipe. S. V. Laughinghouse. No. 1,034,629; Aug. 6; Gaz. vol. 181; p. 75.
Soil-treating apparatus. F. C. Carroll. No. 1,038,084; Sept. 10; Gaz. vol. 182; p. 338.
Solar heat, Device for utilizing. A. H. Evans. No. 1,042,418; Oct. 29; Gaz. vol. 183; p. 1055.
Solar heater. T. F. Nichols. No. 1,014,972; Jan. 16; Sp. p. 4206; Gaz. vol. 174; p. 708.
Solder, Aluminum-. C. R. Erkens. No. 1,033,565; July 23; Gaz. vol. 180; p. 1051.
Soldering aluminum and forming same, Compound for use in. J. J. Natzman. No. 1,032,494; July 16; Gaz. vol. 180; p. 652.
Soldering apparatus, Metal-. A. R. Braden. No. 1,030,641; June 25; Sp. p. 5811; Gaz. vol. 179; p. 996.
Soldering chain-links. E. Speidel. No. 1,017,818; Feb. 20; Sp. p. 3508; Gaz. vol. 175; p. 616.
Soldering-iron. J. E. Rowe. No. 1,015,713; Jan. 23; Sp. p. 5785; Gaz. vol. 174; p. 986.
Soldering-iron. N. I. Dryfoos. No. 1,020,971; Mar. 26; Sp. p. 4186; Gaz. vol. 176; p. 778.
Soldering-iron. J. L. Nilsson. No. 1,043,963; Nov. 12; Gaz. vol. 184; p. 354.
Soldering-iron and blow-torch, Combined. W. P. Bartholow. No. 1,024,170; Apr. 23; Sp. p. 5170; Gaz. vol. 177; p. 908.
Soldering-iron, Electric. F. A. Sandstrom. No. 1,045,615; Nov. 26; Gaz. vol. 184; p. 987.
Soldering-iron heater. R. Eisenberg. No. 1,024,320; Apr. 23; Sp. p. 5478; Gaz. vol. 177; p. 960.
Soldering-iron heater. F. H. Denicke. No. 1,034,589; Aug. 6; Gaz. vol. 181; p. 62.
Soldering-iron holder. J. L. Mayhew. No. 1,033,112; July 23; Gaz. vol. 180; p. 900.
Soldering-iron, Self-heating. R. M. Jett. No. 1,032,837; July 16; Gaz. vol. 180; p. 770.
Soldering-iron, Self-heating. B. Tropp. No. 1,045,343; Nov. 26; Gaz. vol. 184; p. 890.
Soldering-iron stove. N. G. Barkers. No. 1,027,096; May 21; Sp. p. 4481; Gaz. vol. 178; p. 756.
Soldering-machine. W. H. Gibbs. No. 1,016,006; Jan. 30; Sp. p. 6405; Gaz. vol. 174; p. 1115.
Soldering machine, Can-. J. A. Booth. No. 1,018,159; Feb. 20; Sp. p. 4289; Gaz. vol. 175; p. 737.

Soldering machine, Can-. W. I. Irwin. No. 1,043,317; Nov. 5; Gaz. vol. 184; p. 98.
Soldering machines, Means for regulating the feed of solder in can-. S. S. Chewning. No. 1,022,770; Apr. 9; Sp. p. 2188; Gaz. vol. 177; p. 375.
Soldering sheet-metal vessels, Machine for. G. H. Bennett. No. 1,030,225; June 18; Sp. p. 4689; Gaz. vol. 179; p. 806.
Soldering single links of solid wire chains. F. Maisenbacher and T. Bürck. No. 1,027,869; May 28; Sp. p. 6131; Gaz. vol. 178; p. 1052.
Sole and heel plate. E. P. Mead. No. 1,030,003; June 18; Sp. p. 4214; Gaz. vol. 179; p. 730.
Sole, Antislip-. F. and G. Wodtli. No. 1,036,766; Aug. 27; Gaz. vol. 181; p. 905.
Sole beveling and fleshing machine. J. J. Gillespie. No. 1,029,009; June 11; Sp. p. 2053; Gaz. vol. 179; p. 353.
Sole-channeling machine. F. Wald. No. 1,022,714; Apr. 9; Sp. p. 2073; Gaz. vol. 177; p. 356.
Sole-channeling machine. F. E. Bertrand. No. 1,023,801; Apr. 23; Sp. p. 4304; Gaz. vol. 177; p. 781.
Sole-channeling machine. E. A. Webster. No. 1,028,509; June 4; Sp. p. 982; Gaz. vol. 179; p. 148.
Sole-channeling tool. F. E. Bertrand. No. 1,030,706; June 25; Sp. p. 5973; Gaz. vol. 179; p. 1018.
Sole, Cushion- A. and D. A. Reed. No. 1,017,314; Feb. 13; Sp. p. 2406; Gaz. vol. 175; p. 409.
Sole-cutter and numbering-machine. H. S. Mirandette. No. 1,033,764; July 23; Gaz. vol. 180; p. 1114.
Sole-cutting machine. P. Funck. No. 1,017,744; Feb. 20; Sp. p. 3298; Gaz. vol. 175; p. 590.
Sole-edge protector for boots and shoes. T. C. Plant. No. 1,029,219; June 11; Sp. p. 2491; Gaz. vol. 179; p. 423.
Sole edge trimmer and burnisher, Shoe-. J. W. Schneider. No. 1,042,607; Oct. 29; Gaz. vol. 183; p. 1122.
Sole-edge trimming and finishing tool. A. D. Frascola. No. 1,025,390; May 7; Sp. p. 636; Gaz. vol. 178; p. 99.
Sole, Elastic metal. U. A. Baumann. No. 1,013,727; Jan. 2; Sp. p. 1408; Gaz. vol. 174; p. 221.
Sole for shoes, Renewable. L. A. Bilger. No. 1,034,960; Aug. 6; Gaz. vol. 181; p. 187.
Sole for slippers and the like, Detachable. F. Knipp. No. 1,017,676; Feb. 20; Sp. p. 3149; Gaz. vol. 175; p. 568.
Sole-holding device. F. E. Drown. No. 1,020,135; Mar. 12; Sp. p. 2404; Gaz. vol. 176; p. 410.
Sole-holding device. J. F. Quigley. No. 1,029,459; June 11; Sp. p. 3027; Gaz. vol. 179; p. 507.
Sole laying and leveling jack. E. Woodward. No. 1,048,627; Dec. 31; Gaz. vol. 185; p. 1113.
Sole-laying machine. C. L. Miller. No. 1,018,069; Feb. 20; Sp. p. 4098; Gaz. vol. 175; p. 705.
Sole-leveling machine. C. E. Rogers. No. 1,022,701; Apr. 9; Sp. p. 2025; Gaz. vol. 177; p. 350.
Sole-leveling machines, Shoe-support for. E. E. Winkley. No. 1,027,025; May 21; Sp. p. 4293; Gaz. vol. 178; p. 730.
Sole-machine. E. E. Winkley. No. 1,028,982; June 11; Sp. p. 1985; Gaz. vol. 179; p. 343.
Sole-machine. F. E. Bertrand. No. 1,030,802; June 25; Sp. p. 6237; Gaz. vol. 179; p. 1053.
Sole-machine. E. E. Winkley. No. 1,030,958; July 2; Gaz. vol. 180; p. 37.
Sole-machine. E. E. Winkley. No. 1,030,959; July 2; Gaz. vol. 180; p. 37.
Sole-machine, Automatic. E. E. Winkley. No. 1,041,215; Oct. 15; Gaz. vol. 183; p. 587.
Sole-machine, Automatic. F. F. Dorsey. No. 1,044,443; Nov. 12; Gaz. vol. 184; p. 517.
Sole, Non-slipping. C. H. Hill. No. 1,049,087; Dec. 31; Gaz. vol. 185; p. 1274.
Sole-pressing machine. E. N. Preble. No. 1,048,579; Dec. 31; Gaz. vol. 185; p. 1096.
Sole-protector for boots and shoes. E. F. Baldwin. No. 1,017,727; Feb. 20; Sp. p. 3258; Gaz. vol. 175; p. 584.
Sole-rounding machine. W. G. Eaton. No. 1,048,511; Dec. 31; Gaz. vol. 185; p. 1074.
Sole, Shoe-. C. S. Swaim. No. 1,044,941; Nov. 19; Gaz. vol. 184; p. 721.
Sole, Slipper-. C. Levy. No. 1,023,158; Apr. 16; Sp. p. 3040; Gaz. vol. 177; p. 545.
Sole-tempering machine. W. B. Keighley. No. 1,017,556; Feb. 13; Sp. p. 2909; Gaz. vol. 175; p. 491.
Soles and the like, Apparatus for tempering and flexing. G. Basler. No. 1,036,061; Aug. 20; Gaz. vol. 181; p. 629.
Soles, Holder for cementing. G. E. Brittain. No. 1,016,544; Feb. 6; Sp. p. 732; Gaz. vol. 175; p. 108.
Soles, Machine for nailing uppers to. C. Sattler. No. 1,023,337; Apr. 16; Sp. p. 3399; Gaz. vol. 177; p. 606.
Soles, Machine for operating on shoe-. F. H. Perry. No. 1,030,606; June 25; Sp. p. 5680; Gaz. vol. 179; p. 983.
Soles, Machine for operating on shoe-. F. H. Perry. No. 1,030,607; June 25; Sp. p. 5696; Gaz. vol. 179; p. 983.
Soles, Machine for operating upon. F. M. Furber. No. 1,019,888; Mar. 12; Sp. p. 1883; Gaz. vol. 176; p. 329.
Soles, Machine for operating upon. A. Bates. No. 1,020,533; Mar. 19; Sp. p. 3235; Gaz. vol. 176; p. 578.
Soles, Machine for operating upon. R. C. Simmons. No. 1,030,618; June 25; Sp. p. 5740; Gaz. vol. 179; p. 988.
Soles, Machine for operating upon. W. Chaput. No. 1,030,644; June 25; Sp. p. 5818; Gaz. vol. 179; p. 997.
Soles, Machine for operating upon. F. E. Bertrand. No. 1,030,703; June 25; Sp. p. 5959; Gaz. vol. 179; p. 1017.
Soles, Machine for operating upon shoe-. L. A. Casgrain. No. 1,030,717; June 25; Sp. p. 5998; Gaz. vol. 179; p. 1023.
Soles of boots and shoes, Edge-protector for the. W. H. Colbath. No. 1,041,029; Oct. 15; Gaz. vol. 183; p. 524.
Solenoid. C. J. Anderson. No. 1,015,925; Jan. 30; Sp. p. 6228; Gaz. vol. 174; p. 1086.
Solenoid-controller. F. W. Smith. No. 1,022,707; Apr. 9; Sp. p. 2044; Gaz. vol. 177; p. 353.
Solid bodies, Appliance for raising. F. Beduwé. No. 1,042,189; Oct. 22; Gaz. vol. 183; p. 950.
Solids and liquids, Separating. J. J. Berrigan. No. 1,016,870; Feb. 6; Sp. p. 1408; Gaz. vol. 175; p. 218.
Solids in liquids, Concentration of. W. R. Whitney. No. 1,022,523; Apr. 9; Sp. p. 1623; Gaz. vol. 177; p. 289.
Sorting and storing device. J. M. Snead. No. 1,016,971; Feb. 13; Sp. p. 1646; Gaz. vol. 175; p. 289.
Sound and shock absorber. J. B. Ogden. No. 1,036,313; Aug. 20; Gaz. vol. 181; p. 719.
Sound-box. L. F. Douglass. No. 1,017,041; Feb. 13; Sp. p. 1805; Gaz. vol. 175; p. 313.
Sound-boxes, Needle-controlling means for. J. P. Shinn. No. 1,048,219; Dec. 24; Gaz. vol. 185; p. 936.
Sound-boxes, Support and sound-duct for. T. H. Macdonald. No. 1,024,640; Apr. 30; Sp. p. 6267; Gaz. vol. 177; p. 1103.
Sound-concentrator. W. M. Lorimer and A. T. Ziegler. No. 1,043,783; Nov. 5; Gaz. vol. 184; p. 258.
Sound conduit and amplifying device. A. Fischer. No. 1,046,454; Dec. 10; Gaz. vol. 185; p. 266.
Sound-producing apparatus. R. A. Whitehead. No. 1,017,834; Feb. 20; Sp. p. 3538; Gaz. vol. 175; p. 622.
Sound-producing device. B. P. and F. I. Remy. No. 1,016,035; Jan. 30; Sp. p. 6470; Gaz. vol. 174; p. 1126.
Sound-producing device. J. P. Northey. No. 1,016,087; Jan. 30; Sp. p. 6591; Gaz. vol. 174; p. 1145.
Sound-producing instrument. E. H. Hawley. No. 1,014,302; Jan. 9; Sp. p. 2689; Gaz. vol. 174; p. 449.
Sound-record-duplicating apparatus. J. W. Aylsworth. No. 1,024,965; Apr. 30; Sp. p. 6929; Gaz. vol. 177; p. 1218.
Sound-record support, Cylindrical-. F. X. Hafbauer. No. 1,029,808; June 18; Sp. p. 3775; Gaz. vol. 179; p. 664.
Sound-record tablet. J. B. Moses. No. 1,046,418; Dec. 3; Gaz. vol. 185; p. 217.
Sound-records, Composition for duplicate. J. W. Aylsworth. No. 1,017,032; Feb. 13; Sp. p. 1779; Gaz. vol. 175; p. 310.
Sound-records, Making. F. L. Dyer. No. 1,021,973; Apr. 2; Sp. p. 482; Gaz. vol. 177; p. 76.
Sound-records, Making. J. W. Owen. No. 1,033,909; July 30; Gaz. vol. 180; p. 1193.
Sound-records, Manufacturing. J. W. Aylsworth. No. 1,036,416; Aug. 20; Gaz. vol. 181; p. 755.
Sound-records, Re-pressing disk. T. H. Macdonald. No. 1,022,100; Apr. 2; Sp. p. 735; Gaz. vol. 177; p. 117.
Sound recording and reproducing machines, Speed-regulator for. W. N. Dennison. No. 1,040,522; Oct. 8; Gaz. vol. 183; p. 317.
Sound-recording apparatus. T. A. Edison. No. 1,019,441; Mar. 5; Sp. p. 1011; Gaz. vol. 176; p. 148.
Sound-recording apparatus. J. Noll. No. 1,047,976; Dec. 24; Gaz. vol. 185; p. 854.
Sound-reproducer. A. N. Pierman. No. 1,024,696; Apr. 30; Sp. p. 6375; Gaz. vol. 177; p. 1123.
Sound-reproducer. D. Higham. No. 1,034,014; July 30; Gaz. vol. 180; p. 1232.
Sound-reproducer. A. N. Pierman. No. 1,034,031; July 30; Gaz. vol. 180; p. 1238.
Sound reproducing and amplifying apparatus. F. J. B. Cordeiro. No. 1,046,982; Dec. 10; Gaz. vol. 185; p. 449.
Sound reproducing and recording instrument. H. G. Wieder. No. 1,013,247; Jan. 2; Sp. p. 346; Gaz. vol. 174; p. 55.
Sound-reproducing apparatus. A. N. Pierman. No. 1,042,034; Oct. 22; Gaz. vol. 183; p. 900.
Sound-reproducing devices, Amplifier for. J. C. English. No. 1,022,582; Apr. 9; Sp. p. 1747; Gaz. vol. 177; p. 308.
Sound-reproducing-machine brake mechanism. H. N. Griesinger. No. 1,043,420; Nov. 5; Gaz. vol. 184; p. 133.
Sound-reproducing-machine needle. B. Tendler. No. 1,022,515; Apr. 9; Sp. p. 1599; Gaz. vol. 177; p. 286.
Sound-reproducing machines, Record-changing mechanism for. J. Wellner. No. 1,032,573; July 16; Gaz. vol. 180; p. 678.
Sound-transmitting apparatus. C. W. McGonigle. No. 1,049,253; Dec. 31; Gaz. vol. 185; p. 1329.
Sound-waves, Device for graphically reproducing. H. G. Dorsey. No. 1,017,392; Feb. 13; Sp. p. 2570; Gaz. vol. 175; p. 435.
Sounder. E. C. Wood. No. 1,035,292; Aug. 13; Gaz. vol. 181; p. 329.
Sounding apparatus, Electromagnetic. C. W. McGonigle. No. 1,023,215; Apr. 16; Sp. p. 3159; Gaz. vol. 177; p. 565.
Sounding apparatus, Marine. H. K. Marshall. No. 1,016,923; Feb. 6; Sp. p. 1525; Gaz. vol. 175; p. 236.

Alphabetical list of inventions—Continued.

Sounding-disk. C. C. Ehrman. No. 1,026,256; May 14; Sp. p. 2575; Gaz. vol. 178; p. 431.
Space-block. E. H. Farquhar. No. 1,022,021; Apr. 2; Sp. p. 577; Gaz. vol. 177; p. 91.
Spacer. G. W. Eberley. No. 1,019,139; Mar. 5; Sp. p. 298; Gaz. vol. 176; p. 46.
Spacer, Automatic self-cleaning. P. E. Kent. No. 1,046,468; Dec. 10; Gaz. vol. 185; p. 271.
Spacing and supporting device for reinforcing-bars. H. H. Hickman. No. 1,024,260; Apr. 23; Sp. p. 5374; Gaz. vol. 177; p. 941.
Spacing-machine. A. Kolassa. No. 1,023,740; Apr. 16; Sp. p. 4169; Gaz. vol. 177; p. 732.
Spacing-machine. W. J. Patchell. No. 1,036,695; Aug. 27; Gaz. vol. 181; p. 882.
Spacing-tool. M. Nesheim. No. 1,046,632; Dec. 10; Gaz. vol. 185; p. 330.
Spade and shovel. H. H. Altvater. No. 1,046,366; Dec. 3; Gaz. vol. 185; p. 198.
Spade and shovel. A. T. Loftsgaarden. No. 1,046,616; Dec. 10; Gaz. vol. 185; p. 324.
Spade arrangement. W. Hellemann and H. Kanonenberg. No. 1,029,191; June 11; Sp. p. 2428; Gaz. vol. 179; p. 413.
Spade-handle, Auxiliary. T. H. De Haven. No. 1,037,734; Sept. 3; Gaz. vol. 182; p. 187.
Spade-step. E. C. Jewett. No. 1,018,424; Feb. 27; Sp. p. 4851; Gaz. vol. 175; p. 859.
Spade-step. J. A. Belknap. No. 1,033,980; July 30; Gaz. vol. 180; p. 1218.
Spar-base. E. A. and J. F. Gaskill. No. 1,044,771; Nov. 19; Gaz. vol. 184; p. 663.
Spark-advancer, Automatic. C. C. Charles. No. 1,040,884; Oct. 8; Gaz. vol. 183; p. 441.
Spark and cinder arrester. W. L. Peach. No. 1,043,716; Nov. 5; Gaz. vol. 184; p. 236.
Spark-arrester. H. W. Mielke and G. M. Sergent. No. 1,014,018; Jan. 9; Sp. p. 2083; Gaz. vol. 174; p. 349.
Spark-arrester. W. R. Hall. No. 1,016,069; Jan. 30; Sp. p. 6556; Gaz. vol. 174; p. 1138.
Spark-arrester. C. F. Clawson. No. 1,016,213; Jan. 30; Sp. p. 6817; Gaz. vol. 174; p. 1185.
Spark-arrester. E. G. Taack. No. 1,022,277; Apr. 2; Sp. p. 1097; Gaz. vol. 177; p. 176.
Spark-arrester. G. H. B. Steele, A. H. Boulter, and J. Hargreaves. No. 1,023,769; Apr. 16; Sp. p. 4220; Gaz. vol. 177; p. 741.
Spark-arrester. O. Anderson. No. 1,023,792; Apr. 23; Sp. p. 4272; Gaz. vol. 177; p. 778.
Spark-arrester. O. S. Bennett. No. 1,026,143; May 14; Sp. p. 2324; Gaz. vol. 178; p. 392.
Spark-arrester. S. and J. B. Piché. No. 1,026,633; May 14; Sp. p. 3377; Gaz. vol. 178; p. 557.
Spark-arrester. F. Slater. No. 1,026,834; May 21; Sp. p. 3837; Gaz. vol. 178; p. 663.
Spark-arrester. F. E. Brewer. No. 1,028,323; June 4; Sp. p. 565; Gaz. vol. 179; p. 84.
Spark-arrester. E. E. Ellsworth. No. 1,028,450; June 4; Sp. p. 857; Gaz. vol. 179; p. 128.
Spark-arrester. J. I. Stampahar and J. F. Rom. No. 1,030,028; June 18; Sp. p. 4264; Gaz. vol. 179; p. 739.
Spark-arrester. T. M. Van Horn and L. E. Endsley. No. 1,030,947; July 2; Gaz. vol. 180; p. 33.
Spark-arrester. B. C. Moxley. No. 1,031,570; July 2; Gaz. vol. 180; p. 250.
Spark-arrester. C. S. Garton. No. 1,032,200; July 9; Gaz. vol. 180; p. 508.
Spark-arrester. D. Schneider. No. 1,032,302; July 9; Gaz. vol. 180; p. 543.
Spark-arrester. N. J. Roether. No. 1,037,326; Sept. 3; Gaz. vol. 182; p. 49.
Spark-arrester. A. W. Graham. No. 1,037,898; Sept. 10; Gaz. vol. 182; p. 275.
Spark-arrester. W. C. Yeomans. No. 1,038,707; Sept. 17; Gaz. vol. 182; p. 586.
Spark-arrester. P. E. Cunningham and R. Reid. No. 1,041,436; Oct. 15; Gaz. vol. 183; p. 661.
Spark-arrester. W. Crawford. No. 1,044,501; Nov. 19; Gaz. vol. 184; p. 567.
Spark-arrester. J. H. Kohlrust. No. 1,048,417; Dec. 24; Gaz. vol. 185; p. 1002.
Spark arrester and consumer. G. F. Roderick. No. 1,022,441; Apr. 9; Sp. p. 1457; Gaz. vol. 177; p. 261.
Spark arrester and consumer. G. F. Roderick. No. 1,045,612; Nov. 26; Gaz. vol. 184; p. 986.
Spark-arrester for smoke-stacks. E. E. Ellsworth. No. 1,028,449; June 4; Sp. p. 856; Gaz. vol. 179; p. 128.
Spark-arrester, Locomotive. P. E. Cunningham and R. Reid. No. 1,028,683; June 4; Sp. p. 1328; Gaz. vol. 179; p. 205.
Spark-coil attachment. C. H. Thordarson. No. 1,043,274; Nov. 5; Gaz. vol. 184; p. 80.
Spark-coil cases, Means for supporting. B. Ames. No. 1,030,858; July 2; Gaz. vol. 180; p. 3.
Spark-extinguisher. J. B. Dallemagne. No. 1,035,423; Aug. 13; Gaz. vol. 181; p. 377.
Spark finders and extinguishers, Water-jacket for. G. W. Lucas. No. 1,037,944; Sept. 10; Gaz. vol. 182; p. 292.
Spark-generators. Short-circuiter for reversed. T. E. Madden. No. 1,027,388; May 21; Sp. p. 5076; Gaz. vol. 178; p. 854.
Spark-indicator. L. E. Tait. No. 1,015,096; Jan. 16; Sp. p. 4454; Gaz. vol. 174; p. 749.
Spark-plug. A. Schmidt. No. 1,015,843; Jan. 30; Sp. p. 6056; Gaz. vol. 174; p. 1056.
Spark-plug. G. Wright. No. 1,020,006; Mar. 12; Sp. p. 2132; Gaz. vol. 176; p. 367.
Spark-plug. F. Bartl. No. 1,023,493; Apr. 16; Sp. p. 3704; Gaz. vol. 177; p. 655.
Spark-plug. W. Ellis. No. 1,024,321; Apr. 23; Sp. p. 5479; Gaz. vol. 177; p. 961.
Spark-plug. L. J. Dirand. No. 1,024,834; Apr. 30; Sp. p. 6664; Gaz. vol. 177; p. 1173.
Spark-plug. C. C. Eldridge and E. J. Beebe. No. 1,028,200; June 4; Sp. p. 321; Gaz. vol. 179; p. 43.
Spark-plug. C. E. Johnson. No. 1,029,613; June 18; Sp. p. 3344; Gaz. vol. 179; p. 596.
Spark-plug. B. Silfa. No. 1,030,135; June 18; Sp. p. 4491; Gaz. vol. 179; p. 775.
Spark-plug. G. C. Davis. No. 1,031,626; July 2; Gaz. vol. 180; p. 269.
Spark-plug. J. E. Murray. No. 1,033,449; July 23; Gaz. vol. 180; p. 1013.
Spark-plug. A. S. Pierrel. No. 1,037,307; Sept. 3; Gaz. vol. 182; p. 43.
Spark-plug. W. S. Witter. No. 1,038,701; Sept. 17; Gaz. vol. 182; p. 584.
Spark-plug. J. J. McIntyre. No. 1,041,835; Oct. 22; Gaz. vol. 183; p. 833.
Spark-plug. R. A. Stranahan. No. 1,042,619; Oct. 29; Gaz. vol. 183; p. 1127.
Spark-plug. A. J. Parchem. No. 1,042,818; Oct. 29; Gaz. vol. 183; p. 1196.
Spark-plug. E. F. Hopkins. No. 1,044,528; Nov. 19; Gaz. vol. 184; p. 577.
Spark-plug attachment. H. C. Hemmeter. No. 1,022,192; Apr. 2; Sp. p. 934; Gaz. vol. 177; p. 149.
Spark-plug, Combination. W. C. Brunt. No. 1,026,653; May 21; Sp. p. 3444; Gaz. vol. 178; p. 601.
Spark-plug holder and spark-indicator. E. H. Benn. No. 1,024,819; Apr. 30; Sp. p. 6631; Gaz. vol. 177; p. 1167.
Spark-plug, Protected. G. F. Day. No. 1,032,818; July 16; Gaz. vol. 180; p. 763.
Spark-plug tester. A. De Clairmont. No. 1,014,207; Jan. 9; Sp. p. 2467; Gaz. vol. 174; p. 415.
Spark-plug tester. J. Valois, A. and A. Groise. No. 1,033,498; July 23; Gaz. vol. 180; p. 1029.
Spark-plugs, Transformer attachment for. S. F. Briggs. No. 1,038,277; Sept. 10; Gaz. vol. 182; p. 402.
Spark-producing apparatus. R. von Horváth. No. 1,018,763; Feb. 27; Sp. p. 5639; Gaz. vol. 175; p. 975.
Spark-timing device. L. F. Goodspeed. No. 1,037,828; Sept. 3; Gaz. vol. 182; p. 217.
Sparking apparatus. H. F. Whalton. No. 1,013,466; Jan. 2; Sp. p. 823; Gaz. vol. 174; p. 131.
Sparking plug. G. S. Walker. No. 1,018,383; Feb. 20; Sp. p. 4744; Gaz. vol. 175; p. 813.
Sparking plug. F. W. Erickson. No. 1,044,509; Nov. 19; Gaz. vol. 184; p. 570.
Speaking-tube terminal. R. N. Johnson. No. 1,032,756; July 16; Gaz. vol. 180; p. 743.
Specialist's chair. G. L. Poll. No. 1,029,315; June 11; Sp. p. 2697; Gaz. vol. 179; p. 458.
Specimens, Method and means for preserving and mailing. R. L. Watkins. No. 1,015,601; Jan. 23; Sp. p. 5543; Gaz. vol. 174; p. 949.
Spectacle and eyeglass case. F. J. Willmott. No. 1,041,214; Oct. 15; Gaz. vol. 183; p. 587.
Spectacle-case. E. Suhr. No. 1,024,752; Apr. 30; Sp. p. 6495; Gaz. vol. 177; p. 1143.
Spectacle, eyeglass, &c., case. P. J. Willmott. No. 1,041,933; Oct. 22; Gaz. vol. 183; p. 867.
Spectacle-frame. P. J. Boucher. No. 1,022,653; Apr. 9; Sp. p. 1907; Gaz. vol. 177; p. 333.
Spectacle-glass. M. von Rohr. No. 1,030,128; June 18; Sp. p. 4472; Gaz. vol. 179; p. 773.
Spectacle-mounting. L. F. Adt. No. 1,017,642; Feb. 20; Sp. p. 3081; Gaz. vol. 175; p. 557.
Spectacle-mounting. G. A. Bader. No. 1,031,228; July 2; Gaz. vol. 180; p. 134.
Spectacle or eyeglass case. S. C. Hirschberg. No. 1,024,005; Apr. 23; Sp. p. 4787; Gaz. vol. 177; p. 850.
Spectacles. F. W. King. No. 1,017,766; Feb. 20; Sp. p. 3343; Gaz. vol. 175; p. 598.
Spectacles. F. Morton. No. 1,024,275; Apr. 23; Sp. p. 5403; Gaz. vol. 177; p. 946.
Spectacles. N. Bourquin. No. 1,031,684; July 9; Gaz. vol. 180; p. 332.
Spectacles. J. C. Wells. No. 1,036,530; Aug. 20; Gaz. vol. 181; p. 794.
Spectacles. F. A. Stevens. No. 1,038,675; Sept. 17; Gaz. vol. 182; p. 574.
Spectacles. F. A. Stevens. No. 1,043,270; Nov. 5; Gaz. vol. 184; p. 79.
Spectacles. F. Hamilton. No. 1,044,518; Nov. 19; Gaz. vol. 184; p. 574.
Spectacles and eyeglasses. N. M. Baker. No. 1,032,464; July 16; Gaz. vol. 180; p. 642.
Spectacles and the like, Adjustable clamping-support for. E. S. Wiggins. No. 1,013,711; Jan. 2; Sp. p. 1372; Gaz. vol. 174; p. 215.

Spectacles, Eye-shield. F. Willson and N. Bourquin. No. 1,021,175; Mar. 26; Sp. p. 4609; Gaz. vol. 176; p. 846.
Spectacles, eyeglasses, &c., Eye-shield for. G. Moritz. No. 1,025,202; May 7; Sp. p. 204; Gaz. vol. 178; p. 34.
Spectacles, Temple for. W. B. Swartwout. No. 1,017,702; Feb. 20; Sp. p. 3201; Gaz. vol. 175; p. 575.
Spectacular-display apparatus. D. G. Kindleberger. No. 1,034,714; Aug. 6; Gaz. vol. 181; p. 104.
Speculum. E. E. Hall. No. 1,020,281; Mar. 12; Sp. p. 2712; Gaz. vol. 176; p. 460.
Speculum. D. H. Palmer. No. 1,030,530; June 25; Sp. p. 5439; Gaz. vol. 179; p. 955.
Speculum and retractor. J. T. Breneman. No. 1,018,868; Feb. 27; Sp. p. 5851; Gaz. vol. 175; p. 1009.
Speculum, Mouth-. S. B. Dunn. No. 1,022,068; Apr. 2; Sp. p. 670; Gaz. vol. 177; p. 107.
Speed-alarm, Motor-vehicle. R. Berliner, D. D. Swem, and H. F. Moore. No. 1,025,607; May 7; Sp. p. 1115; Gaz. vol. 178; p. 174.
Speed and distance indicating and recording device. W. A. Griswold. No. 1,043,825; Nov. 12; Gaz. vol. 184; p. 305.
Speed and running time of machines, Instrument for indicating. R. Shipman. No. 1,022,801; Apr. 9; Sp. p. 2246; Gaz. vol. 177; p. 385.
Speed and time recorder. B. F. Teal. No. 1,046,346; Dec. 3; Gaz. vol. 185; p. 191.
Speed between driving and driven members, Mechanical movement for producing a differential. M. Leitch. No. 1,027,134; May 21; Sp. p. 4564; Gaz. vol. 178; p. 767.
Speed-changing mechanism. W. C. Conant. No. 1,015,477; Jan. 23; Sp. p. 5283; Gaz. vol. 174; p. 905.
Speed-changing mechanism. H. L. Beeler. No. 1,015,986; Jan. 30; Sp. p. 6363; Gaz. vol. 174; p. 1108.
Speed-changing mechanism. L. R. and L. Bleitz. No. 1,036,531; Aug. 20; Gaz. vol. 181; p. 795.
Speed-changing mechanism. O. S. Sleeper. No. 1,048,220; Dec. 24; Gaz. vol. 185; p. 936.
Speed-comparing device. J. V. Matthews and E. L. Kyle. No. 1,039,564; Sept. 24; Gaz. vol. 182; p. 899.
Speed computer and indicator, Train-. D. Love. No. 1,014,832; Jan. 16; Sp. p. 3889; Gaz. vol. 174; p. 659.
Speed control. C. R. Pratt. No. 1,049,000; Dec. 31; Gaz. vol. 185; p. 1244.
Speed-controlled brake. F. Jordan and H. Sauveur. No. 1,043,437; Nov. 5; Gaz. vol. 184; p. 140.
Speed-controlling device. B. G. Nelson. No. 1,047,276, Dec. 17; Gaz. vol. 185; p. 583.
Speed device, Variable-. E. Draullette. No. 1,031,988; July 9; Gaz. vol. 180; p. 436.
Speed-finder for moving bodies. C. S. Stanworth. No. 1,047,584; Dec. 17; Gaz. vol. 185; p. 693.
Speed-gage. L. A. Casgrain. No. 1,042,890; Oct. 29; Gaz. vol. 183; p. 1220.
Speed-governor. H. O. Barenz. No. 1,017,126; Feb. 13; Sp. p. 1999; Gaz. vol. 175; p. 344.
Speed-governor. F. J. Wood. No. 1,031,670; July 2; Gaz. vol. 180; p. 285.
Speed indicating and recording device. W. K. Menns. No. 1,037,952; Sept. 10; Gaz. vol. 182; p. 294.
Speed-indicating instrument. R. Abell. No. 1,045,111; Nov. 26; Gaz. vol. 184; p. 809.
Speed-indicator. L. E. Shaw. No. 1,025,164; May 7; Sp. p. 113; Gaz. vol. 178; p. 20.
Speed-indicator. R. C. Dole and C. A. Hinemeyer. No. 1,031,537; July 2; Gaz. vol. 180; p. 238.
Speed-indicator. V. L. Cross. No. 1,035,085; Aug. 6; Gaz. vol 181; p. 227.
Speed-indicator. F. L. Cantrall. No. 1,042,316; Oct. 22; Gaz. vol. 183; p. 991.
Speed-indicator. H. R. Wallace. No. 1,045,647; Nov. 26; Gaz. vol. 184; p. 998.
Speed-indicator for centrifugal machines. H. N. Fisher. No. 1,025,259; May 7; Sp. p. 334; Gaz. vol. 178; p. 54.
Speed-indicator for motor-vehicles and the like. H. P. F. Behrens. No. 1,048,276; Dec. 24; Gaz. vol. 185; p. 955.
Speed-indicator, Magnetic. L. Le Pontois. No. 1,028,488; June 4; Sp. p. 942; Gaz. vol. 179; p. 141.
Speed indicator, Ship-. L. J. Heathcote. No. 1,020,980; Mar. 26; Sp. p. 4210; Gaz. vol. 176; p. 782.
Speed mechanism, Change-. R. Milne. No. 1,029,549; June 11; Sp. p. 3206; Gaz. vol. 179; p. 538.
Speed mechanism for motor-vehicles, Variable-. T. Lumsden. No. 1,031,723; July 9; Gaz. vol. 180; p. 346.
Speed mechanism, Variable-. J. Ranz. No. 1,020,573; Mar. 19, Sp. p. 3337; Gaz. vol. 176; p. 593.
Speed mechanism, Variable-. W. F. Zimmermann. No. 1,021,439; Mar. 26; Sp. p. 5189; Gaz. vol. 176; p. 939.
Speed mechanism, Variable-. S. W. Luitwieler. No. 1,023,084; Apr. 9; Sp. p. 2829; Gaz. vol. 177; p. 481.
Speed mechanism, Variable-. G. Richards. No. 1,042,720; Oct. 29; Gaz. vol. 183; p. 1162.
Speed mechanism, Variable-. R. M. Ruck. No. 1,043,629; Nov. 5; Gaz. vol. 184; p. 207.
Speed mechanism, Variable-. W. H. Johnson. No. 1,045,151; Nov. 26; Gaz. vol. 184; p. 822.
Speed or distance indicators, Driving mechanism for. W. F. Kendall. No. 1,042,687; Oct. 29; Gaz. vol. 183; p. 1150.
Speed-recorder. A. H. Martin. No. 1,018,330; Feb. 20; Sp. p. 4624; Gaz. vol. 175; p. 794.
Speed-recorder. H. Arquint. No. 1,045,660; Nov. 26; Gaz. vol. 184; p. 1004.
Speed-recorder and analogous apparatus. C. C. Clawson. No. 1,038,297; Sept. 10; Gaz. vol. 182; p. 409.
Speed-recording apparatus for vehicles. J. Schlenker. No. 1,029,638; June 18; Sp. p. 3394; Gaz. vol. 179; p. 604.
Speed-recording device. W. W. King. No. 1,042,561; Oct. 29; Gaz. vol. 183; p. 1105.
Speed-regulating device for automobiles and the like. H. Saurer. (Reissue.) No. 13,348; Jan. 2; Sp. p. 1696; Gaz. vol. 174; p. 268.
Speed-regulating mechanism. J. C. Carpenter. No. 1,038,848; Sept. 17; Gaz. vol. 182; p. 635.
Speed-regulator. P. L. Bradford. No. 1,027,640; May 28; Sp. p. 5576; Gaz. vol. 178; p. 974.
Speed-regulator, Automatic electric. M. D. Selden and R. L. Graves. No. 1,040,586; Oct. 8; Gaz. vol. 183; p. 341.
Speed-regulator for electromotors. B. F. Hutches, Jr. No. 1,014,707; Jan. 16; Sp. p. 3597; Gaz. vol. 174; p. 616.
Speed-regulator for turbines, Automatic. F. P. Heitman. No. 1,031,181; July 2; Gaz. vol. 180; p. 118.
Speed regulator, Motor-. A. A. Tirrili. No. 1,029,480; June 11; Sp. p. 3065; Gaz. vol. 179; p. 514.
Speed-responsive switch. P. J. and C. D. Bodine. No. 1,046,953; Dec. 10; Gaz. vol. 185; p. 440.
Speed transmission device, Changing-. P. and F. Rolando. No. 1,040,763; Oct. 8; Gaz. vol. 183; p. 403.
Speed-transmission device, Variable-. C. J. Robinson. No. 1,027,767; May 28; Sp. p. 5837; Gaz. vol. 178; p. 1016.
Speed-transmission device, Variable-. F. T. Adams. No. 1,028,522; June 4; Sp. p. 1005; Gaz. vol. 179; p. 153.
Speed-transmission device, Variable-. J. E. Thebaud. No. 1,041,373; Oct. 15; Gaz. vol. 183; p. 641.
Speed-transmission mechanism. L. J. Campbell. No. 1,035,152; Aug. 13; Gaz. vol. 181; p. 280.
Speed-transmission mechanism, Variable-. L. J. Campbell. No. 1,023,811; Apr. 23; Sp. p. 4338; Gaz. vol. 177; p. 785.
Speed-transmission mechanism, Variable-. C. A. Dreisbach. No. 1,046,156; Dec. 3; Gaz. vol. 185; p. 123.
Speed-variator. C. M. Conradson. No. 1,035,860; Aug. 20; Gaz. vol. 181; p. 561.
Speedometer. L. A. Greenleaf. (Reissue.) No. 13,370; Feb. 20; Sp. p. 4791; Gaz. vol. 175; p. 820.
Speedometer. F. B. Healey and C. S. Homsher. No. 1,019,638; Mar. 5; Sp. p. 1395; Gaz. vol. 176; p. 213.
Speedometer. L. E. Blanchard. No. 1,021,036; Mar. 26; Sp. p. 4311; Gaz. vol. 176; p. 801.
Speedometer. R. B. A. Lemaignen. No. 1,025,070; Apr. 30; Sp. p. 7122; Gaz. vol. 177; p. 1251.
Speedometer. J. W. Jones. No. 1,028,220; June 4; Sp. p. 356; Gaz. vol. 179; p. 50.
Speedometer. E. J. Eakin. No. 1,049,063; Dec. 31; Gaz. vol. 185; p. 1265.
Speedometer and mileage-indicator. V. Frank. No. 1,049,220; Dec. 31; Gaz. vol. 185; p. 1318.
Speedometer, Balanced. M. J. Klein. No. 1,018,504; Feb. 27; Sp. p. 5034; Gaz. vol. 175; p. 886.
Speedometer-driving mechanism, Supporting device for. R. Abell. No. 1,018,542; Feb. 27; Sp. p. 5169; Gaz. vol. 175; p. 899.
Speedometer for vessels. C. F. Roper. No. 1,048,212; Dec. 24; Gaz. vol. 185; p. 934.
Speedometer, Magnetic. J. K. Stewart. No. 1,033,840; July 30; Gaz. vol. 180; p. 1169.
Speedometer, Magnetic. J. K. Stewart. No. 1,038,016; Sept. 10; Gaz. vol. 182; p. 315.
Speedometer, Magnetic. H. Kocourek. No. 1,042,122; Oct. 22; Gaz. vol. 183; p. 928.
Speedometer-recorder. A. W. Dennis. No. 1,048,503; Dec. 31; Gaz. vol. 185; p. 1071.
Spice-mill. R. F. Cline. No. 1,029,792; June 18; Sp. p. 3743; Gaz. vol. 179; p. 659.
Spice-mill. W. H. Archer. No. 1,048,787; Dec. 31; Gaz. vol. 185; p. 1171.
Spigot. G. A. Lowry. No. 1,021,055; Mar. 26; Sp. p. 4355; Gaz. vol. 176; p. 808.
Spigot. W. L. Herblin. No. 1,033,244; July 23; Gaz. vol. 180; p. 946.
Spike. G. Weber. No. 1,015,106; Jan. 16; Sp. p. 4474; Gaz. vol. 174; p. 753.
Spike. M. Rasmussen. No. 1,022,261; Apr. 2; Sp. p. 1072; Gaz. vol. 177; p. 171.
Spike. T. C. Hanson. No. 1,024,776; Apr. 30; Sp. p. 6546; Gaz. vol. 177; p. 1152.
Spike. G. A. Strawser. No. 1,025,596; May 7; Sp. p. 1099; Gaz. vol. 178; p. 170.
Spike. L. T. La Paugh. No. 1,031,349; July 2; Gaz. vol. 180; p. 176.
Spike. G. Blackwood. No. 1,032,985; July 16; Gaz. vol. 180; p. 818.
Spike. S. L. Clark. No. 1,035,419; Aug. 13; Gaz. vol. 181; p. 375.
Spike. W. R. Riggins. No. 1,044,420; Nov. 12; Gaz. vol. 184; p. 510.
Spike. A. M. Harding. No. 1,047,802; Dec. 17; Gaz. vol. 185; p. 769.

Alphabetical list of inventions—Continued.

Spike, Expansion-. A. Martin. No. 1,024,904; Apr. 30; Sp. p. 6805; Gaz. vol. 177; p. 1196.
Spike-extractor. W. Edmonson. No. 1,033,682; July 23; Gaz. vol. 180; p. 1089.
Spike-holder. G. W. Wright. No. 1,038,704; Sept. 17; Gaz. vol. 182; p. 585.
Spike-machine. G. Barr. No. 1,024,666; Apr. 30; Sp. p. 6312; Gaz. vol. 177; p. 1113.
Spike-machine. G. Barr. No. 1,025,670; May 7; Sp. p. 1254; Gaz. vol. 178; p. 194.
Spike or nail. J. K. Hutchinson and R. H. Wallace. No. 1,031,556; July 2; Gaz. vol. 180; p. 246.
Spike-protecting device. G. H. Elliott. No. 1,017,395; Feb. 13; Sp. p. 2575; Gaz. vol. 175; p. 436.
Spike-puller. H. T. Kostenbader. No. 1,014,068; Jan. 9; Sp. p. 2193; Gaz. vol. 174; p. 367.
Spike-puller. M. E. Shaffer. No. 1,028,291; June 4; Sp. p. 502; Gaz. vol. 179; p. 73.
Spike, Safety-. J. Sartori. No. 1,035,644; Aug. 13; Gaz. vol. 181; p. 451.
Spindle: *See* Axle-spindle; Bearing-spindle; Detachable spindle; Knob-spindle; Loom picker-spindle; Rolling-mill coupling-spindle; Spinning-spindle; Winding-spindle.
Spindle. W. L. and W. E. G. Robinson. No. 1,037,324; Sept. 3; Gaz. vol. 182; p. 49.
Spindle-driving mechanism, Drill-. F. D. Taylor. No. 1,015,359; Jan. 23; Sp. p. 5011; Gaz. vol. 174; p. 866.
Spindle-stop, Automatic. H. M. Norris. No. 1,022,866; Apr. 9; Sp. p. 2374; Gaz. vol. 177; p. 406.
Spindle-support for spinning, twisting, and like machines. G. W. Farnham. No. 1,047,187; Dec. 17; Gaz. vol. 185; p. 550.
Spindle-support for spinning, twisting, and like machines. G. W. Farnham. No. 1,047,188; Dec. 17; Gaz. vol. 185; p. 550.
Spindle-support for spinning, twisting, and like machines. G. W. Farnham. No. 1,047,189; Dec. 17; Gaz. vol. 185; p. 551.
Spinning and doubling frame. A. E. Drew, J. Arkinstall, W. Dean, and J. H. Howarth. No. 1,025,254; May 7; Sp. p. 323; Gaz. vol. 178; p. 52.
Spinning and doubling frames, Thread-guide or lappet for. N. S. Brown and J. Hardacre. No. 1,018,870; Feb. 27; Sp. p. 5855; Gaz. vol. 175; p. 1010.
Spinning and doubling machines, Bearing for supporting the fliers and wherves on the bolster-tubes of. J. S. Gaunt and H. Dyson. No. 1,039,726; Oct. 1; Gaz. vol. 183; p. 19.
Spinning and ring-doubling machine, Ring-. G. Bancroft. No. 1,048,273; Dec. 24; Gaz. vol. 185; p. 954.
Spinning and twisting device, Yarn. V. Bélanger. No. 1,020,179; Mar. 12; Sp. p. 2499; Gaz. vol. 176; p. 426.
Spinning and twisting frame for fibrous materials. T. A. Boyd. No. 1,047,123; Dec. 10; Gaz. vol. 185; p. 498.
Spinning apparatus, Traverse-motion for yarn-. A. E. Rhoades. No. 1,020,713; Mar. 19; Sp. p. 3640; Gaz. vol. 176; p. 640.
Spinning apparatus, Yarn-. A. E. Rhoades. No. 1,037,318; Sept. 3; Gaz. vol. 182; p. 46.
Spinning apparatus, Yarn-. C. Weatherhead. No. 1,041,539; Oct. 15; Gaz. vol. 183; p. 695.
Spinning-cylinders, Tongs for separating. A. Furrer. No. 1,020,139; Mar. 12; Sp. p. 2408; Gaz. vol. 176; p. 411.
Spinning, Cotton-. A. J. Richards and P. J. Hinds. No. 1,031,871; July 9; Gaz. vol. 180; p. 399.
Spinning device. G. Bettini. No. 1,036,425; Aug. 20; Gaz. vol. 181; p. 759.
Spinning, doubling, and forming cops, Apparatus and means for. A. E. Drew, J. Arkinstall, and W. Dean. No. 1,030,261; June 18; Sp. p. 4761; Gaz. vol. 179; p. 820.
Spinning, doubling, and twisting machine. S. Z. de Ferranti. No. 1,018,702; Feb. 27; Sp. p. 5499; Gaz. vol. 175; p. 952.
Spinning, doubling, and twisting machine. S. Z. de Ferranti. No. 1,030,395; June 25; Sp. p. 5090; Gaz. vol. 179; p. 907.
Spinning, doubling, and twisting machine, Ring. A. Jörgens. No. 1,018,710; Feb. 27; Sp. p. 5519; Gaz. vol. 175; p. 955.
Spinning-frame. H. W. Owen. No. 1,041,665; Oct. 15; Gaz. vol. 183; p. 737.
Spinning-frame creel-supporting rail. L. T. Houghton. No. 1,022,193; Apr. 2; Sp. p. 935; Gaz. vol. 177; p. 149.
Spinning-frame thread-guide. W. O. Bosworth. No. 1,025,365; May 7; Sp. p. 577; Gaz. vol. 178; p. 90.
Spinning frames, Builder for ring-. M. J. Leahy. No. 1,037,645; Sept. 3; Gaz. vol. 182; p. 157.
Spinning-frames, Prevention of double threads and intertwining in. I. Linon. No. 1,040,224; Oct. 1; Gaz. vol. 183; p. 185.
Spinning-machine. F. S. Culver. No. 1,013,748; Jan. 2; Sp. p. 1453; Gaz. vol. 174; p. 229.
Spinning-machine. S. Z. de Ferranti. No. 1,013,872; Jan. 9; Sp. p. 1756; Gaz. vol. 174; p. 301.
Spinning-machine. E. J. and J. J. Cotter. No. 1,021,448; Mar. 26; Sp. p. 5205; Gaz. vol. 176; p. 942.
Spinning-machine. L. J. Morin. No. 1,028,480; June 4; Sp. p. 926; Gaz. vol. 179; p. 138.
Spinning-machine. D. O. Pease. No. 1,031,464; July 2; Gaz. vol. 180; p. 215.
Spinning-machine. F. S. Culver. No. 1,039,905; Oct. 1; Gaz. vol. 183; p. 79.
Spinning-machine. F. Watzlawik. No. 1,048,920; Dec. 31; Gaz. vol. 185; p. 1215.
Spinning-machine drag device. G. B. Black, Jr. No. 1,027,805; May 28; Sp. p. 5928; Gaz. vol. 178; p. 1030.
Spinning-machine spindle-driving device. I. Etrich. No. 1,042,659; Oct. 29; Gaz. vol. 183; p. 1141.
Spinning-machine stop-motion. S. K. Marshall and M. H. McKinney. No. 1,018,919; Feb. 27; Sp. p. 5955; Gaz. vol. 175; p. 1026.
Spinning machines, Separator for ring-. A. Hitchon. No. 1,031,265; July 2; Gaz. vol. 180; p. 147.
Spinning machines, Yarn condenser and polisher for cordage-. O. Nedvidek. No. 1,045,064; Nov. 19; Gaz. vol. 184; p. 764.
Spinning-mules, Yarn-evening attachment for. R. J. Harrington. No. 1,014,299; Jan. 9; Sp. p. 2681; Gaz. vol. 174; p. 447.
Spinning or twisting apparatus, Traverse-motion for yarn. A. E. Rhoades. No. 1,013,846; Jan. 2; Sp. p. 1660; Gaz. vol. 174; p. 263.
Spinning-ring. J. A. Morse. No. 1,032,077; July 9; Gaz. vol. 180; p. 466.
Spinning-ring holder. G. L. Pierce. No. 1,031,086; July 2; Gaz. vol. 180; p. 85.
Spinning-ring holder. B. Hall. No. 1,040,535; Oct. 8; Gaz. vol. 183; p. 322.
Spinning-ring holder, Rotary-. B. Hall. No. 1,034,790; Aug. 6; Gaz. vol. 181; p. 131.
Spinning-spindle. A. H. Morton. No. 1,039,434; Sept. 24; Gaz. vol. 182; p. 852.
Spinning-spindle attachment. T. Lewis. No. 1,024,942; Apr. 30; Sp. p. 6891; Gaz. vol. 177; p. 1210.
Spinning-spindle, Bobbin-clutching. J. V. Cunniff. No. 1,024,396; Apr. 23; Sp. p. 5607; Gaz. vol. 177; p. 983.
Spinning, twisting, and like machines, Spindle for. A. H. Morton. No. 1,039,433; Sept. 24; Gaz. vol. 182; p. 851.
Spinning, twisting, and like machines, Spindle-support for. A. H. Morton. No. 1,039,432; Sept. 24; Gaz. vol. 182; p. 851.
Spinning, twisting, and like machines, Spindle-support for. G. W. Farnham. No. 1,040,297; Oct. 8; Gaz. vol. 183; p. 240.
Spiral chambers from sheet metal, Forming closed continuous. J. O. Olson and W. W. Grant. No. 1,029,310; June 11; Sp. p. 2686; Gaz. vol. 179; p. 456.
Spiral indicator. J. R. S. Blaine. No. 1,033,866; July 30; Gaz. vol. 180; p. 1177.
Spittoon. M. Grisham. No. 1,041,621; Oct. 15; Gaz. vol. 183; p. 720.
Spittoon-lifter. W. S. C. Megill. No. 1,023,669; Apr. 16; Sp. p. 4053; Gaz. vol. 177; p. 711.
Splice-bar. A. Kubik. No. 1,017,156; Feb. 13; Sp. p. 2064; Gaz. vol. 175; p. 355.
Splice-bar. F. Powell. No. 1,037,795; Sept. 3; Gaz. vol. 182; p. 206.
Splice-bar. W. C. Workman. No. 1,038,471; Sept. 10; Gaz. vol. 182; p. 470.
Splice-bar. E. Wetherbee. No. 1,046,697; Dec. 10; Gaz. vol. 185; p. 354.
Splice-bar and rail-bond. C. R. Sturdevant. No. 1,023,340; Apr. 16; Sp. p. 3405; Gaz. vol. 177; p. 608.
Splitting-machine. M. A. Reilly and T. J. Aldridge. No. 1,013,897; Jan. 9; Sp. p. 1803; Gaz. vol. 174; p. 309.
Splitting-machine. J. B. Hadaway. No. 1,022,414; Apr. 9; Sp. p. 1376; Gaz. vol. 177; p. 252.
Splitting-machine. J. M. Benjamin. No. 1,048,278; Dec. 24; Gaz. vol. 185; p. 956.
Splitting-machine, Band-knife. C. A. Hirth. No. 1,033,892; July 30; Gaz. vol. 180; p. 1188.
Splitting-machine, Hand. M. E. Naylor. No. 1,020,364; Mar. 12; Sp. p. 2860; Gaz. vol. 176; p. 484.
Spoke-clamp. J. Blackford. No. 1,034,398; July 30; Gaz. vol. 180; p. 1365.
Spoke-driving machine. L. S. Garman. No. 1,043,586; Nov. 5; Gaz. vol. 184; p. 193.
Spoke extractor, Wagon-. B. C. Fisk and I. W. Smith. No. 1,034,227; July 30; Gaz. vol. 180; p. 1305.
Spoke-puller. J. R. Kelly. No. 1,019,656; Mar. 5; Sp. p. 1429; Gaz. vol. 176; p. 220.
Spoke, Resilient. G. T. Reichenbach and J. G. Peck. No. 1,029,401; June 11; Sp. p. 2915; Gaz. vol. 179; p. 487.
Spoke-socket. P. S. Duffy. No. 1,026,572; May 14; Sp. p. 3243; Gaz. vol. 178; p. 536.
Spoke-socket. L. A. Bradford. No. 1,035,943; Aug. 20; Gaz. vol. 181; p. 590.
Spoke-tenoning machine. C. Bergstrom. No. 1,044,477; Nov. 19; Gaz. vol. 184; p. 559.
Spoke-tightener. J. W. Norton and P. N. Sumrall. No. 1,028,379; June 4; Sp. p. 690; Gaz. vol. 179; p. 105.
Spoke, Vehicle-. L. E. Tichenor and S. E. McAnulty. No. 1,019,560; Mar. 5; Sp. p. 1257; Gaz. vol. 176; p. 187.
Spoke, Vehicle wheel-. B. H. Norton. No. 1,043,346; Nov. 5; Gaz. vol. 184; p. 108.
Sponge, Making artificial. G. H. Willis and B. F. Felix. No. 1,045,234; Nov. 26; Gaz. vol. 184; p. 852.

Sponging apparatus. M. Braun. No. 1,044,437; Nov. 12; Gaz. vol. 184; p. 515.
Spool and cutter, Combined. J. K. Toles. No. 1,018,945; Feb. 27; Sp. p. 6004; Gaz. vol. 175; p. 1035.
Spool and implement holder. D. C. Williams. No. 1,024,958; Apr. 30; Sp. p. 6918; Gaz. vol. 177; p. 1216.
Spool and implement holder. D. C. Williams. No. 1,049,021; Dec. 31; Gaz. vol. 185; p. 1251.
Spool attachment. I. Howard-O'Keeffe. No. 1,029,193; June 11; Sp. p. 2430; Gaz. vol. 179; p. 414.
Spool, Braider-. F. Mossberg. No. 1,040,384; Oct. 8; Gaz. vol. 183; p. 269.
Spool-head. C. H. Smith. No. 1,014,780; Jan. 16; Sp. p. 3764; Gaz. vol. 174; p. 640.
Spool-holder. W. A. Courtland. No. 1,020,401; Mar. 19; Sp. p. 2948; Gaz. vol. 176; p. 536.
Spool-holder. C. Kamp and E. Schoppe. No. 1,037,148; Aug. 27; Gaz. vol. 181; p. 1032.
Spool-holder. D. Weinstein. No. 1,043,491; Nov. 5; Gaz. vol. 184; p. 160.
Spool or bobbin winding machine. E. Wackerhagen. No. 1,031,213; July 2; Gaz. vol. 180; p. 129.
Spool-package for silk, &c. P. B. Herrick. No. 1,028,877; June 11; Sp. p. 1751; Gaz. vol. 179; p. 306.
Spool-rack. S. Haas. No. 1,022,077; Apr. 2; Sp. p. 688; Gaz. vol. 177; p. 110.
Spool, Ribbon-. W. W. Lasker. No. 1,013,882; Jan. 9; Sp. p. 1772; Gaz. vol. 174; p. 304.
Spooler. A. E. Rhoades. No. 1,026,604; May 14; Sp. p. 3303; Gaz. vol. 178; p. 546.
Spooling-machine. F. A. Gülicher. No. 1,020,414; Mar. 19; Sp. p. 2977; Gaz. vol. 176; p. 540.
Spooling-machine, Automatic. A. G. Walls. No. 1,017,718; Feb. 20; Sp. p. 3239; Gaz. vol. 175; p. 581.
Spooling-machines, Spool cut-out for. W. T. Baldwin. No. 1,025,558; May 7; Sp. p. 1017; Gaz. vol. 178; p. 157.
Spooling or winding machine. F. S. Culver. No. 1,039,906; Oct. 1; Gaz. vol. 183; p. 79.
Spoon. F. Emmenegger. No. 1,044,869; Nov. 19; Gaz. vol. 184; p. 696.
Spoon attachment. C. A. Carmiencke. No. 1,020,263; Mar. 12; Sp. p. 2668; Gaz. vol. 176; p. 453.
Spoon, Medicine-. C. C. Beamer. No. 1,027,976; May 28; Sp. p. 6340; Gaz. vol. 178; p. 1088.
Sportsman's appliance. M. G. McGuire. No. 1,020,044; Mar. 12; Sp. p. 2208; Gaz. vol. 176; p. 380.
Spot-setting machine. D. C. Sasseman. No. 1,041,884; Oct. 22; Gaz. vol. 183; p. 850.
Spout. A. T. Adams. No. 1,031,829; July 9; Gaz. vol. 180; p. 383.
Spout. A. W. Erickson. No. 1,048,513; Dec. 31; Gaz. vol. 185; p. 1075.
Spout bracket and hanger, Down-. L. P. Hazen. No. 1,034,444; Aug. 6; Gaz. vol. 181; p. 15.
Spout, Discharge-. A. Rosenthal. No. 1,030,016; June 18; Sp. p. 4240; Gaz. vol. 179; p. 734.
Spout for containers, Detachable. J. Morgan and H. E. Grabau. No. 1,044,560; Nov. 19; Gaz. vol. 184; p. 588.
Spout for disk attachments. T. Brennan, Jr. No. 1,036,436; Aug. 20; Gaz. vol. 181; p. 761.
Spout or conveyer, Adjustable. A. J. Hartley. No. 1,033,316; July 23; Gaz. vol. 180; p. 970.
Spouting concrete, grain, &c., Device for. J. L. Weller. No. 1,047,866; Dec. 17; Gaz. vol. 185; p. 791.
Spray. E. C. Warwick. No. 1,020,937; Mar. 19; Sp. p. 4091; Gaz. vol. 176; p. 715.
Spray-burner. A. Normand. No. 1,020,048; Mar. 12; Sp. p. 2217; Gaz. vol. 176; p. 382.
Spray-burner. A. H. Davidson and S. Sundelius. No. 1,020,955; Mar. 19; Sp. p. 4139; Gaz. vol. 176; p. 721.
Spray-nozzle. F. G. Manly. No. 1,033,603; July 23; Gaz. vol. 180; p. 1064.
Sprayer. J. F. Patterson. No. 1,013,307; Jan. 2; Sp. p. 489; Gaz. vol. 174; p. 77.
Sprayer. J. Overbeke. No. 1,030,119; June 18; Sp. p. 4460; Gaz. vol. 179; p. 771.
Sprayer, Centrifugal. J. R. Wright. No. 1,045,242; Nov. 26; Gaz. vol. 184; p. 855.
Sprayer for fire-hose and the like. J. B. Marshall. No. 1,037,785; Sept. 3; Gaz. vol. 182; p. 203.
Sprayer, Liquid-. L. A. Aspinwall. No. 1,018,804; Feb 27; Sp. p. 5724; Gaz. vol. 175; p. 988.
Sprayer, Liquid-. W. B. Coulter. No. 1,039,365; Sept. 24; Gaz. vol. 182; p. 828.
Sprayer, Locomotive coal-. W. J. Orr. No. 1,033,924; July 30; Gaz. vol. 180; p. 1198.
Sprayer, Soap-powder. E. C. Wideman. No. 1,038,251; Sept. 10; Gaz. vol. 182; p. 393.
Sprayer, Tree-. F. M. Thomas. No. 1,045,217; Nov. 26; Gaz. vol. 184; p. 846.
Spraying apparatus. W. H. Heard. No. 1,043,929; Nov. 12; Gaz. vol. 184; p. 341.
Spraying apparatus, Automatic. A. J. Tyler. No. 1,039,335; Sept. 24; Gaz. vol. 182; p. 817.
Spraying-compound mixer. N. J. Wigginton. No. 1,036,392; Aug. 20; Gaz. vol. 181; p. 747.
Spraying device. S. Stephens. No. 1,016,109; Jan. 30; Sp. p. 6629; Gaz. vol. 174; p. 1152.
Spraying device. H. E. Brandt. No. 1,016,204; Jan. 30; Sp. p. 6803; Gaz. vol. 174; p. 1182.
Spraying device. H. J. Haber. No. 1,019,322; Mar. 5; Sp. p. 714; Gaz. vol. 176; p. 111.
Spraying device. E. E. Schellenger. No. 1,022,643; Apr. 9; Sp. p. 1881; Gaz. vol. 177; p. 329.
Spraying device. H. E. Brandt. No. 1,027,521; May 28; Sp. p. 5342; Gaz. vol. 178; p. 935.
Spraying device. C. W. Honabach and C. S. Bryant. No. 1,035,441; Aug. 13; Gaz. vol. 181; p. 383.
Spraying device. T. Eder. No. 1,046,572; Dec. 10; Gaz. vol. 185; p. 309.
Spraying device. W. L. and R. C. Gregg. No. 1,047,791; Dec. 17; Gaz. vol. 185; p. 765.
Spraying device, Fluid-. J. T. Johnson. No. 1,023,852; Apr. 23; Sp. p. 4445; Gaz. vol. 177; p. 798.
Spraying liquids and moistening air, Device for. C. H. Prött. No. 1,024,281; Apr. 23; Sp. p. 5412; Gaz. vol. 177; p. 947.
Spraying-machine. W. O. Quest. No. 1,022,206; Apr. 2; Sp. p. 963; Gaz. vol. 177; p. 154.
Spraying machine, Plant-. L. Willis. No. 1,024,239; Apr. 23; Sp. p. 5333; Gaz. vol. 177; p. 934.
Spraying-sprinkler for areas of definite shape. G. H. Hunter. No. 1,016,632; Feb. 6; Sp. p. 931; Gaz. vol. 175; p. 139.
Spraying-tower, Portable. A. A. Sheetz and G. A. Cottrell. No. 1,020,061; Mar. 12; Sp. p. 2239; Gaz. vol. 176; p. 386.
Spread-roller. J. E. Melchior. No. 1,014,769; Jan. 16; Sp. p. 3742; Gaz. vol. 174; p. 637.
Spreader. A. B. Comrie. No. 1,040,888; Oct. 8; Gaz. vol. 183; p. 442.
Spreader, Material-. T. Ion. No. 1,026,092; May 14; Sp. p. 2223; Gaz. vol. 178; p. 373.
Spreading device, Material-. A. B. Gibeau and H. Hadley, Jr. No. 1,013,546; Jan. 2; Sp. p. 994; Gaz. vol. 174; p. 159.
Spring: *See* Bed-spring; Bolster-spring; Checkrein-spring; Cycle rear-seat spring; Door-spring; Furniture-spring; Gate, &c., spring; Pneumatic spring; Pneumatic cushion-spring; Rubber vehicle-spring; Trap-spring; Vehicle-spring; Vehicle fluid-spring; Vehicle suspension-spring; Wagon bolster-spring.
Spring. W. S. Hodges. No. 1,013,774; Jan. 2; Sp. p. 1511; Gaz. vol. 174; p. 239.
Spring. W. W. Hawkes. No. 1,020,350; Mar. 12; Sp. p. 2836; Gaz. vol. 176; p. 480.
Spring. W. R. Park. No. 1,023,870; Apr. 23; Sp. p. 4489; Gaz. vol. 177; p. 804.
Spring. W. A. Hill. No. 1,032,407; July 16; Gaz. vol. 180; p. 623.
Spring. R. J. Collins. No. 1,037,729; Sept. 3; Gaz. vol. 182; p. 185.
Spring. W. L. Bliss. No. 1,047,491; Dec. 17; Gaz. vol. 185; p. 659.
Spring and couch fabric. T. Klipfel and J. F. Hansen. No. 1,045,856; Dec. 3; Gaz. vol. 185; p. 21.
Spring-attaching means, Coiled-. H. A. Ogle. No. 1,042,718; Oct. 29; Gaz. vol. 183; p. 1162.
Spring attachment, Vehicle. G. S. Spreyer. No. 1,015,649; Jan. 23; Sp. p. 5651; Gaz. vol. 174; p. 966.
Spring-bearer, Adjustable. F. H. Raabe. No. 1,040,012; Oct. 1; Gaz. vol. 183; p. 113.
Spring-casing, Vehicle. L. F. Kuhn. No. 1,047,660; Dec. 17; Gaz. vol. 185; p. 720.
Spring-clamp. L. E. Locke. No. 1,045,860; Dec. 3; Gaz. vol. 185; p. 22.
Spring-clip. E. H. Cooper. No. 1,017,249; Feb. 13; Sp. p. 2273; Gaz. vol. 175; p. 386.
Spring coiling and cutting machine, Coil-. N. S Harter. No. 1,029,540; June 11; Sp. p. 3179; Gaz. vol. 179; p. 533.
Spring-coiling machine. F. H. Sleeper. No. 1,045,900; Dec. 3; Gaz. vol. 185; p. 36.
Spring compressing and assembling device. W. N. Titus, Jr. No. 1,026,837; May 21; Sp. p. 3846; Gaz. vol. 178; p. 664.
Spring-connector. T. G. Grier and H. M. Fisk. No. 1,045,280; Nov. 26; Gaz. vol. 184; p. 868.
Spring construction. M. McIntosh. No. 1,033,434; July 23; Gaz. vol. 180; p. 1008.
Spring construction. S. M. Raftery. No. 1,036,904; Aug. 27; Gaz. vol. 181; p. 950.
Spring construction, Reinforced-rim. L. A. Young. No. 1,014,736; Jan. 16; Sp. p. 3668; Gaz. vol. 174; p. 626.
Spring-cushioned wheel. S. W. Buercklin. No. 1,049,046; Dec. 31; Gaz. vol. 185; p. 1260.
Spring fastening device. J. Schade, Jr. No. 1,047,897; Dec. 17; Gaz. vol. 185; p. 801.
Spring-fender for docks. H. J. Brunnier. No. 1,013,584; Jan. 2; Sp. p. 1061; Gaz. vol. 174; p. 171.
Spring-fork for wheeled vehicles. C. R. and H. M. Kittle. No. 1,036,263; Aug. 20; Gaz. vol. 181; p. 702.
Spring-forming machine. A. H. Luebke. No. 1,020,767; Mar. 19; Sp. p. 3758; Gaz. vol. 176; p. 658.
Spring-frame for cushion-seats. A. Weickman. No. 1,027,949; May 28; Sp. p. 6276; Gaz. vol. 178; p. 1079.
Spring-frog and guard-rail. J. W. Thomas. No. 1,048,109; Dec. 24; Gaz. vol. 185; p. 900.
Spring-joint. W. D. Tusten. No. 1,030,143; June 18; Sp. p. 4507; Gaz. vol. 179; p. 778.

Alphabetical list of inventions—Continued.

Spring-lock. P. F. Augenbraun. No. 1,035,073; Aug. 6; Gaz. vol. 181; p. 223.
Spring-lock for adjustable casings of roller-bearings. C. S. Lockwood. No. 1,018,121; Feb. 20; Sp. p. 4206; Gaz. vol. 175; p. 723.
Spring-motor. H. W. Cleland. No. 1,015,298; Jan. 23; Sp. p. 4872; Gaz. vol. 174; p. 844.
Spring-motor. D. C. Culbertson. No. 1,033,158; July 23; Gaz. vol. 180; p. 915.
Spring-motor. J. Recktenwald. No. 1,037,316; Sept. 3; Gaz. vol. 182; p. 46.
Spring-motor. G. O'Bryan. No. 1,040,742; Oct. 8; Gaz. vol. 183; p. 396.
Spring-mounting. T. W. Dunn. No. 1,041,255; Oct. 15; Gaz. vol. 183; p. 601.
Spring-protector and shock-absorber. R. P. and W. H. Clark. No. 1,032,990; July 16; Gaz. vol. 180; p. 819.
Spring repairer, Broken-. J. H. Warner. No. 1,017,485; Feb. 13; Sp. p. 2778; Gaz. vol. 175; p. 469.
Spring-roller. A. M. MacFarland. No. 1,021,057; Mar. 26; Sp. p. 4357; Gaz. vol. 176; p. 809.
Spring-roller. E. F. Chaffee. No. 1,046,439; Dec. 10; Gaz. vol. 185; p. 261.
Spring seat and back, Combination. G. W. Robertson. No. 1,032,243; July 9; Gaz. vol. 180; p. 523.
Spring structure. O. R. Hunt. No. 1,027,051; May 21; Sp. p. 4357; Gaz. vol. 178; p. 739.
Spring structure, Metallic. D. C. Travis. No. 1,048,112; Dec. 24; Gaz. vol. 185; p. 900.
Spring suspension. F. B. Stratford. No. 1,031,394; July 2; Gaz. vol. 180; p. 191.
Spring suspension. H. Ford. No. 1,044,038; Nov. 12; Gaz. vol. 184; p. 379.
Spring-switch. C. C. Korns. No. 1,013,297; Jan. 2; Sp. p. 470; Gaz. vol. 174; p. 73.
Spring-trap. W. J. Webster and R. Noall. No. 1,017,123; Feb. 13; Sp. p. 1991; Gaz. vol. 175; p. 342.
Spring-trap. M. F. Richardson. No. 1,048,586; Dec. 31; Gaz. vol. 185; p. 1098.
Spring-wheel. W. D. Hester. No. 1,013,656; Jan. 2; Sp. p. 1252; Gaz. vol. 174; p. 196.
Spring-wheel. W. B. McPike. No. 1,013,946; Jan. 9; Sp. p. 1916; Gaz. vol. 174; p. 326.
Spring-wheel. G. V. Stein. No. 1,014,533; Jan. 9; Sp. p. 3158; Gaz. vol. 174; p. 526.
Spring-wheel. S. F. Walker and G. Hunter. No. 1,014,541; Jan. 9; Sp. p. 3170; Gaz. vol. 174; p. 528.
Spring-wheel. R. Stock. No. 1,014,858; Jan. 16; Sp. p. 3955; Gaz. vol. 174; p. 669.
Spring-wheel. J. Lowe. No. 1,015,199; Jan. 16; Sp. p. 4645; Gaz. vol. 174; p. 784.
Spring-wheel. J. Corbin. No. 1,015,785; Jan. 30; Sp. p. 5933; Gaz. vol. 174; p. 1038.
Spring-wheel. L. P. Sievers. No. 1,016,298; Feb. 6; Sp. p. 136; Gaz. vol. 175; p. 21.
Spring-wheel. H. E. Wirebaugh. No. 1,016,534; Feb. 6; Sp. p. 699; Gaz. vol. 175; p. 104.
Spring-wheel. H. C. Keller. No. 1,016,693; Feb. 6; Sp. p. 1047; Gaz. vol. 175; p. 160.
Spring-wheel. F. Smith. No. 1,017,330; Feb. 13; Sp. p. 2439; Gaz. vol. 175; p. 414.
Spring-wheel. G. H. Langton and J. M. Kellerman. No. 1,017,895; Feb. 20; Sp. p. 3711; Gaz. vol. 175; p. 646.
Spring-wheel. S. P. Sanders. No. 1,017,919; Feb. 20; Sp. p. 3758; Gaz. vol. 175; p. 653.
Spring-wheel. W. T. Murray. No. 1,018,259; Feb. 20; Sp. p. 4489; Gaz. vol. 175; p. 770.
Spring-wheel. E. W. Burner. No. 1,020,260; Mar. 12; Sp. p. 2664; Gaz. vol. 176; p. 452.
Spring-wheel. A. J. Swarts. No. 1,020,328; Mar. 12; Sp. p. 2793; Gaz. vol. 176; p. 473.
Spring-wheel. J. C. and I. L. Deckard. No. 1,021,355; Mar. 26; Sp. p. 4981; Gaz. vol. 176; p. 909.
Spring-wheel. E. E. Wickham. No. 1,022,648; Apr. 9; Sp. p. 1896; Gaz. vol. 177; p. 331.
Spring-wheel. H. E. J. Foerster. No. 1,023,010; Apr. 9; Sp. p. 2676; Gaz. vol. 177; p. 456.
Spring-wheel. L. Schilling. No. 1,023,098; Apr. 9; Sp. p. 2858; Gaz. vol. 177; p. 486.
Spring-wheel. N. R. Martin and C. E. Roby. No. 1,024,091; Apr. 23; Sp. p. 4977; Gaz. vol. 177; p. 880.
Spring-wheel. S. B. Edwards. No. 1,024,191; Apr. 23; Sp. p. 5224; Gaz. vol. 177; p. 915.
Spring-wheel. E. East. No. 1,024,977; Apr. 30; Sp. p. 6949; Gaz. vol. 177; p. 1221.
Spring-wheel. C. P. Carrick. No. 1,025,051; Apr. 30; Sp. p. 7090; Gaz. vol. 177; p. 1246.
Spring-wheel. C. Coughlin. No. 1,025,080; Apr. 30; Sp. p. 7154; Gaz. vol. 177; p. 1255.
Spring-wheel. H. Villiers-Stuart. No. 1,025,343; May 7; Sp. p. 522; Gaz. vol. 178; p. 82.
Spring-wheel. C. C. Thomas. No. 1,025,433; May 7; Sp. p. 708; Gaz. vol. 178; p. 113.
Spring-wheel. F. H. John. No. 1,025,981; May 14; Sp. p. 1943; Gaz. vol. 178; p. 335.
Spring-wheel. J. Kuehl and J. Stefanowski. No. 1,026,810; May 21; Sp. p. 3782; Gaz. vol. 178; p. 654.
Spring-wheel. G. Crawford and T. Veitch. No. 1,027,105; May 21; Sp. p. 4501; Gaz. vol. 178; p. 758.
Spring-wheel. I. N. Harton. No. 1,028,210; June 4; Sp. p. 341; Gaz. vol. 179; p. 46.
Spring-wheel. W. T. Dulany, Jr. No. 1,029,177; June 11; Sp. p. 2398; Gaz. vol. 179; p. 409.
Spring-wheel. W. H. Howsley, Jr. No. 1,029,299; June 11; Sp. p. 2659; Gaz. vol. 179; p. 451.
Spring-wheel. R. Hood. No. 1,029,755; June 18; Sp. p. 3665; Gaz. vol. 179; p. 646.
Spring-wheel. V. E. Campbell. No. 1,029,789; June 18; Sp. p. 3735; Gaz. vol. 179; p. 657.
Spring-wheel. F. Homolya. No. 1,029,867; June 18; Sp. p. 3932; Gaz. vol. 179; p. 684.
Spring-wheel. A. R. McEntire. No. 1,030,314; June 25; Sp. p. 4917; Gaz. vol. 179; p. 877.
Spring-wheel. J. H. Weldon. No. 1,030,442; June 25; Sp. p. 5193; Gaz. vol. 179; p. 924.
Spring-wheel. H. M. Strawn. No. 1,030,688; June 25; Sp. p. 5922; Gaz. vol. 179; p. 1012.
Spring-wheel. R. Stock. No. 1,031,098; July 2; Gaz. vol. 180; p. 89.
Spring-wheel. W. R. Ihrig. No. 1,031,269; July 2; Gaz. vol. 180; p. 149.
Spring-wheel. W. N. Carroll and J. C. Griffin. No. 1,031,687; July 9; Gaz. vol. 180; p. 334.
Spring-wheel. H. M. Hanna, Jr., H. E. Wetherbee, and R. F. Grant. No. 1,032,001; July 9; Gaz. vol. 180; p. 440.
Spring-wheel. B. E. Riley. No. 1,032,942; July 16; Gaz. vol. 180; p. 803.
Spring-wheel. G. J. and C. Blazek. No. 1,033,299; July 23; Gaz. vol. 180; p. 965.
Spring-wheel. A. S. Williams. No. 1,033,645; July 23; Gaz. vol. 180; p. 1078.
Spring-wheel. G. L. Webb. No. 1,034,046; July 30; Gaz. vol. 180; p. 1243.
Spring-wheel. A. W. Drummond and A. D. Davenport. No. 1,034,220; July 30; Gaz. vol. 180; p. 1303.
Spring-wheel. W. L. Fulton, Jr. No. 1,034,438; Aug. 6; Gaz. vol. 181; p. 13.
Spring-wheel. C. Sjögren. No. 1,034,524; Aug. 6; Gaz. vol. 181; p. 42.
Spring-wheel. H. A. Schermerhorn. No. 1,034,736; Aug. 6; Gaz. vol. 181; p. 112.
Spring-wheel. J. F. Cocowitch. No. 1,034,980; Aug. 6; Gaz. vol. 181; p. 194.
Spring-wheel. F. M. Beydler. No. 1,035,410; Aug. 13; Gaz. vol. 181; p. 372.
Spring-wheel. J. Kamppi. No. 1,035,446; Aug. 13; Gaz. vol. 181; p. 385.
Spring-wheel. G. Dorffel. No. 1,035,556; Aug. 13; Gaz. vol. 181; p. 422.
Spring-wheel. B. P. Hanson. No. 1,036,097; Aug. 20; Gaz. vol. 181; p. 642.
Spring-wheel. H. W. Good. No. 1,036,828; Aug. 27; Gaz. vol. 181; p. 926.
Spring-wheel. W. Hill. No. 1,037,004; Aug. 27; Gaz. vol. 181; p. 984.
Spring-wheel. D. Amerman. No. 1,037,574; Sept. 3; Gaz. vol. 182; p. 134.
Spring-wheel. P. and A. De Bogory. No. 1,037,602; Sept. 3; Gaz. vol. 182; p. 142.
Spring-wheel. C. J. Dean. No. 1,038,535; Sept. 17; Gaz. vol. 182; p. 525.
Spring-wheel. J. D. Knight. No. 1,038,764; Sept. 17; Gaz. vol. 182; p. 605.
Spring-wheel. A. S. Hudson. No. 1,039,287; Sept. 24; Gaz. vol. 182; p. 802.
Spring-wheel. I. J. Merrill. No. 1,039,311; Sept. 24; Gaz. vol. 182; p. 810.
Spring-wheel. U. G. Weidman. No. 1,039,857; Oct. 1; Gaz. vol. 183; p. 63.
Spring-wheel. L. Sanders. No. 1,040,426; Oct. 8; Gaz. vol. 183; p. 283.
Spring-wheel. H. B. Coats. No. 1,040,512; Oct. 8; Gaz. vol. 183; p. 313.
Spring-wheel. J. Kohler. No. 1,040,694; Oct. 8; Gaz. vol. 183; p. 381.
Spring-wheel. P. G. Rapp and P. H. King. No. 1,040,755; Oct. 8; Gaz. vol. 183; p. 400.
Spring-wheel. J. W. Heagney. No. 1,040,945; Oct. 8; Gaz. vol. 183; p. 462.
Spring-wheel. A. M. Tully. No. 1,041,910; Oct. 22; Gaz. vol. 183; p. 858.
Spring-wheel. G. O. Clark. No. 1,044,019; Nov. 12; Gaz. vol. 184; p. 373.
Spring-wheel. G. F. Barnes and W. A. Suttle. No. 1,044,973; Nov. 19; Gaz. vol. 184; p. 732.
Spring-wheel. C. H. Bicalky. No. 1,045,363; Nov. 26; Gaz. vol. 184; p. 896.
Spring-wheel. E. L. Coble. No. 1,045,516; Nov. 26; Gaz. vol. 184; p. 952.
Spring-wheel. C. H. Johnstone. No. 1,045,559; Nov. 26; Gaz. vol. 184; p. 967.
Spring-wheel. J. Baird. No. 1,045,661; Nov. 26; Gaz. vol. 184; p. 1004.
Spring-wheel. E. L. Goltry. No. 1,046,289; Dec. 3; Gaz. vol. 185; p. 171.
Spring-wheel. S. Kilgore. No. 1,046,606; Dec. 10; Gaz. vol. 185; p. 320.
Spring-wheel. A. Vlëtor. No. 1,046,907; Dec. 10; Gaz. vol. 185; p. 425.
Spring-wheel. F. W. Brown. No. 1,047,741; Dec. 17; Gaz. vol. 185; p. 748.

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Spring-wheel. T. P. Horger. No. 1,048,969; Dec. 31; Gaz. vol. 185; p. 1232.
Spring-wheel. J. Lunz. No. 1,049,246; Dec. 31; Gaz. vol. 185; p. 1326.
Spring-wheel for automobiles, &c. W. Stephens and H. M. Gaston. No. 1,035,058; Aug. 6; Gaz. vol. 181; p. 218.
Spring-wheel, Vehicle. P. H. Minnis. No. 1,014,409; Jan. 9; Sp. p. 2937; Gaz. vol. 174; p. 487.
Spring wheel, Vehicle. F. W. and W. H. Margetts. No. 1,022,430; Apr. 9; Sp. p. 1440; Gaz. vol. 177; p. 258.
Spring-wheel, Vehicle. A. F. Priest. No. 1,022,754; Apr. 9; Sp. p. 2158; Gaz. vol. 177; p. 370.
Spring-winder. R. Titus. No. 1,013,239; Jan. 2; Sp. p. 328; Gaz. vol. 174; p. 52.
Spring winding and controlling mechanism. E. Williams. No. 1,042,064; Oct. 22; Gaz. vol. 183; p. 909.
Springs, Device for making coil-. G. A. Griffin. No. 1,047,939; Dec. 24; Gaz. vol. 185; p. 842.
Springs, End mounting for vehicle-. B. A. Gramm. No. 1,013,547; Jan. 2; Sp. p. 996; Gaz. vol. 174; p. 160.
Sprinkler: *See* Automatic sprinkler; Clothes-sprinkler; Lawn-sprinkler; Spraying-sprinkler; Water-sprinkler.
Sprinkler. R. Lindner. No. 1,025,410; May 7; Sp. p. 667; Gaz. vol. 178; p. 105.
Sprinkler. J. A. McElroy. No. 1,032,558; July 16; Gaz. vol. 180; p. 674.
Sprinkler. E. Wismar. No. 1,036,765; Aug. 27; Gaz. vol. 181; p. 905.
Sprinkler. C. H. Busch. No. 1,036,793; Aug. 27; Gaz. vol. 181; p. 914.
Sprinkler-alarm apparatus. J. R. Hamilton. No. 1,026,439; May 14; Sp. p. 2974; Gaz. vol. 178; p. 492.
Sprinkler-alarm device. E. L. Thompson and J. R. Hamilton. No. 1,022,446; Apr. 9; Sp. p. 1463; Gaz. vol. 177; p. 263.
Sprinkler-closer, Automatic. L. D. Morey. No. 1,028,247; June 4; Sp. p. 412; Gaz. vol. 179; p. 59.
Sprinkler connection, Rotatable. M. Schaffnet. No. 1,019,922; Mar. 12; Sp. p. 1964; Gaz. vol. 176; p. 340.
Sprinkler-head. F. E. Opitz and R. R. Egbert. No. 1,021,374; Mar. 26; Sp. p. 5009; Gaz. vol. 176; p. 914.
Sprinkler-head, Automatic. C. B. Garrett. No. 1,013,545; Jan. 2; Sp. p. 991; Gaz. vol. 174; p. 159.
Sprinkler-head, Automatic. E. M. Long. No. 1,026,687; May 21; Sp. p. 3516; Gaz. vol. 178; p. 613.
Sprinkler-head, Automatic. W. B. Hammond. No. 1,030,299; June 25; Sp. p. 4867; Gaz. vol. 179; p. 871.
Sprinkler system, Automatic. E. D. Van Ness. No. 1,014,349; Jan. 9; Sp. p. 2814; Gaz. vol. 174; p. 466.
Sprinkler system, Automatic. T. J. Stankiewicz. No. 1,031,740; July 9; Gaz. vol. 180; p. 352.
Sprinkler tank, Car-. E. C. Perry. No. 1,040,401; Oct. 8; Gaz. vol. 183; p. 275.
Sprinklers, Fusible link for automatic. A. C. Hannibal. No. 1,026,440; May 14; Sp. p. 2979; Gaz. vol. 178; p. 493.
Sprinkling apparatus. G. D. Parker. No. 1,021,067; Mar. 26; Sp. p. 4374; Gaz. vol. 176; p. 812.
Sprinkling device. E. S. Bickford. No. 1,039,084; Sept. 24; Gaz. vol. 182; p. 729.
Sprinkling-machine. R. F. North. No. 1,014,507; Jan. 9; Sp. p. 3113; Gaz. vol. 174; p. 517.
Sprinkling system, Lawn-. L. D. Barney. No. 1,046,427; Dec. 10; Gaz. vol. 185; p. 256.
Sprocket-wheel clip. W. L. Kissel. No. 1,047,239; Dec. 17; Gaz vol. 185; p. 569.
Sprocket-wheel for cutting-chains. E. Jones and J. Hall. No. 1,013,173; Jan. 2; Sp. p. 170; Gaz. vol. 174; p. 30.
Sputum-cup. D. Johnson. No. 1,031,648; July 2; Gaz. vol. 180; p. 277.
Sputum-cup holder. C. E. Knowlton and W. G. Smith. No. 1,043,238; Nov. 5; Gaz. vol. 184; p. 68.
Sputum-receptacle. J. Knapp and J. Ligart. No. 1,017,419; Feb. 13; Sp. p. 2632; Gaz. vol. 175; p. 445.
Square. L. W. Cole. No. 1,013,986; Jan. 9; Sp. p. 2006; Gaz. vol. 174; p. 339.
Square. P. D. Jones. No. 1,015,736; Jan. 23; Sp. p. 5834; Gaz. vol. 174; p. 994.
Square. B. László. No. 1,020,428; Mar. 19; Sp. p. 3013; Gaz. vol. 176; p. 546.
Square. J. Skates. No. 1,033,742; July 23; Gaz. vol. 180; p. 1108.
Square. M. A. K. Shotwell. No. 1,038,008; Sept. 10; Gaz. vol. 182; p. 312.
Square. W. E. Rarey. No. 1,040,239; Oct. 1; Gaz. vol. 183; p. 189.
Square. C. E. Mishler. No. 1,048,333; Dec. 24; Gaz. vol. 185; p. 975.
Square and drafting-tool, Combination. H. Adams. No. 1,046,362; Dec. 3; Gaz. vol. 185; p. 196.
Square and level, Combined. G. W. Allen. No. 1,022,396; Apr. 9; Sp. p. 1347; Gaz. vol. 177; p. 247.
Square and leveling device, Combined. J. F. Lewis. No. 1,019,668; Mar. 5; Sp. p. 1448; Gaz. vol. 176; p. 223.
Square and miter-marker, Combination. P. Kranz. No. 1,040,214; Oct. 1; Gaz. vol. 183; p. 182.
Square and other drafting device, T-. V. A. Rigaumont. No. 1,029,225; June 11; Sp. p. 2503; Gaz. vol. 179; p. 425.
Square attachment. L. M. Hodge. No. 1,038,368; Sept. 10; Gaz. vol. 182; p. 432.
Square, Carpenter's. A. A. Harvie. No. 1,049,230; Dec. 31; Gaz. vol. 185; p. 1322.
Square, Flooring-. M. Nelson. No. 1,035,033; Aug. 6; Gaz. vol. 181; p. 210.
Square, Folding. J. O. Ostman. No. 1,019,693; Mar. 5; Sp. p. 1491; Gaz. vol. 176; p. 231.
Square, Folding. C. A. A. Shakely. No. 1,021,850; Apr. 2; Sp. p. 210; Gaz. vol. 177; p. 35.
Square, Folding steel. J. Barker. No. 1,043,502; Nov. 5; Gaz. vol. 184; p. 165.
Square, Knockdown carpenter's. A. A. Harvie. No. 1,049,298; Dec. 31; Gaz. vol. 185; p. 1345.
Square, Knockdown carpenter's. A. A. Harvie. No. 1,049,299; Dec. 31; Gaz. vol. 185; p. 1345.
Square roof-gage. O. Gidney. No. 1,047,041; Dec. 10; Gaz. vol. 185; p. 468.
Square, Sight-. F. P. Meyer. No. 1,013,799; Jan. 2; Sp. p. 1549; Gaz. vol. 174; p. 246.
Square, T-. H. Goldwater. No. 1,045,695; Nov. 26; Gaz. vol. 184; p. 1015.
Square, Try-. C. G. and P. A. Larson. No. 1,037,155; Aug. 27; Gaz. vol. 181; p. 1035.
Square with guide-head, T-. E. Wuest. No. 1,042,743; Oct. 29; Gaz. vol. 183; p. 1170.
Squares, Attachment for. J. F. Clark and G. F. Dorsey. No. 1,014,453; Jan. 9; Sp. p. 3022; Gaz. vol. 174; p. 501.
Squeezing and pressing device. M. Nemes. No. 1,026,696; May 21; Sp. p. 3532; Gaz. vol. 178; p. 616.
Stabilizator. T. D. Greer. No. 1,041,620; Oct. 15; Gaz. vol. 183; p. 719.
Stabilizing mechanism, Automatic. R. B. Koskul. No. 1,047,247; Dec. 17; Gaz. vol. 185; p. 572.
Stable, Cow-. J. A. Montgomery. No. 1,033,441; July 23; Gaz. vol. 180; p. 1010.
Stability device. F. Nyllas. No. 1,032,233; July 9; Gaz. vol. 180; p. 520.
Stack supporting and ventilating device, Hay-. S. J. Bland. No. 1,025,778; May 7; Sp. p. 1467; Gaz. vol. 178; p. 232.
Stacker. S. R. Fergus. No. 1,019,311; Mar. 5; Sp. p. 685; Gaz. vol. 176; p. 107.
Stacker. O. L. Waggoner. No. 1,029,520; June 11; Sp. p. 3138; Gaz. vol. 179; p. 526.
Stacker. R. F. Meyers. No. 1,030,420; June 25; Sp. p. 5143; Gaz. vol. 179; p. 916.
Stacker and loader, Hay. L. R. Shafto. No. 1,021,898; Apr. 2; Sp. p. 313; Gaz. vol. 177; p. 52.
Stacker, Bale-. A. Brunelle. No. 1,015,939; Jan. 30; Sp. p. 6261; Gaz. vol. 174; p. 1090.
Stacker, Foldable. A. Rosenthal. No. 1,027,505; May 28; Sp. p. 5310; Gaz. vol. 178; p. 930.
Stacker, Hay-. C. E. Helmick and W. E. Adler. No. 1,015,440; Jan. 23; Sp. p. 5195; Gaz. vol. 174; p. 892.
Stacker, Hay-. J. O. Van Cleave. No. 1,038,992; Sept. 17; Gaz. vol. 182; p. 683.
Stacker hood, Pneumatic-. G. B. Nelson. No. 1,016,431; Feb. 6; Sp. p. 428; Gaz. vol. 175; p. 68.
Stacker hood, Pneumatic-. R. D. Finnigan. No. 1,046,284; Dec. 3; Gaz. vol. 185; p. 169.
Stacker, Pneumatic. J. K. Sharpe, Jr. No. 1,014,778; Jan. 16; Sp. p. 3760; Gaz. vol. 174; p. 640.
Stacker, Pneumatic. J. K. Sharpe, Jr. No. 1,014,779; Jan. 16; Sp. p. 3762; Gaz. vol. 174; p. 640.
Stacker, Pneumatic. J. K. Sharpe, Jr. No. 1,028,793; June 4; Sp. p. 1556; Gaz. vol. 179; p. 243.
Stacker, Pneumatic. E. J. Vraalstad. No. 1,049,178; Dec. 31; Gaz. vol. 185; p. 1303.
Stacker, Swinging. J. R. Wright. No. 1,045,765; Nov. 26; Gaz. vol. 184; p. 1039.
Stacker, Swinging straw-. E. M. Peterson. No. 1,022,592; Apr. 9; Sp. p. 1771; Gaz. vol. 177; p. 311.
Staff-holder, Flexible. C. D. Lynch. No. 1,013,410; Jan. 2; Sp. p. 702; Gaz. vol. 174; p. 112.
Stage. C. L. Hagen. No. 1,045,398; Nov. 26; Gaz. vol. 184; p. 907.
Stage apparatus for producing volcano effect. R. W. Tully. No. 1,030,035; June 18; Sp. p. 4279; Gaz. vol. 179; p. 741.
Stage appliance. H. B. Laugenour. No. 1,046,813; Dec. 10; Gaz. vol. 185; p. 394.
Stage device. J. B. Fitzpatrick. No. 1,036,208; Aug. 20; Gaz. vol. 181; p. 683.
Stage effects, Electrical apparatus for. A. L. McMurtry. No. 1,021,787; Apr. 2; Sp. p. 66; Gaz. vol. 177; p. 14.
Stage-lighting device. R. Naujoks. No. 1,045,063; Nov. 19; Gaz. vol. 184; p. 764.
Stage-noise cabinet. S. Lapin. No. 1,047,090; Dec. 10; Gaz. vol. 185; p. 485.
Stage-pocket. H. Bissing. No. 1,032,374; July 16; Gaz. vol. 180; p. 613.
Stage-scenery. E. G. Craig. No. 1,022,020; Apr. 2; Sp. p. 576; Gaz. vol. 177; p. 90.
Stage, Theater-. J. A. Isner. No. 1,018,499; Feb. 27; Sp. p. 5025; Gaz. vol. 175; p. 884.
Stair-builder's gage. E. S. Fisher. No. 1,043,515; Nov. 5; Gaz. vol. 184; p. 169.
Stair, Counterbalanced. F. C. Seymour. No. 1,015,645; Jan. 23; Sp. p. 5643; Gaz. vol. 174; p. 964.

Alphabetical list of inventions—Continued.

Stair, Counterbalanced. H. Kleinmark. No. 1,018,197; Feb. 20; Sp. p. 4369; Gaz. vol. 175; p. 750.
Stair-riser, Self-fitting. M. Färch. No. 1,046,165; Dec. 3; Gaz. vol. 185; p. 126.
Stairway, Movable. F. E. Bessler. No. 1,018,232; Feb. 20; Sp. p. 4436; Gaz. vol. 175; p. 762.
Stairway, Moving. G. A. Wheeler. No. 1,01[illegible],189; Jan. 30; Sp. p. 6765; Gaz. vol. 174; p. 1177.
Stairway, Spiral. G. H. Haskell. No. 1,031,645; July 2; Gaz. vol. 180; p. 276.
Stake-pocket, Collapsible. C. O. Keagy and J. R. Carmer. No. 1,046,305; Dec. 3; Gaz. vol. 185; p. 177.
Stake-press, Multiple-plunger. J. A. Talbot and H. E. Brett. No. 1,047,853; Dec. 17; Gaz. vol. 185; p. 786.
Staking-machine. P. Bohaček. No. 1,039,016; Sept. 17; Gaz. vol. 182; p. 691.
Staking or perching machine. W. B. Turner. No. 1,016,657; Feb. 6; Sp. p. 967; Gaz. vol. 175; p. 147.
Staking-tool. L. J. Williams and F. C. Myrick. No. 1,045,487; Nov. 26; Gaz. vol. 184; p. 941.
Stalk-chopper. O. F. Scott. No. 1,039,327; Sept. 24; Gaz. vol. 182; p. 815.
Stalk-cutter. R. N. Sikes. No. 1,014,337; Jan. 9; Sp. p. 2790; Gaz. vol. 174; p. 461.
Stalk-cutter. J. L. Feagan. No. 1,032,748; July 16; Gaz. vol. 180; p. 740.
Stalk-cutter. H. W. Miller. No. 1,034,392; July 30; Gaz. vol. 180; p. 1362.
Stalk-cutter. W. F. Davis. No. 1,046,564; Dec. 10; Gaz. vol. 185; p. 306.
Stalk-puller. C. R. Smith. No. 1,038,978; Sept. 17; Gaz. vol. 182; p. 679.
Stall. W. L. Root. No. 1,013,447; Jan. 2; Sp. p. 782; Gaz. vol. 174; p. 125.
Stall, Adjustable. O. B. Stillman. No. 1,016,182; Jan. 30; Sp. p. 6754; Gaz. vol. 174; p. 1174.
Stall and manger. H. L. Ferris. No. 1,034,774; Aug. 6; Gaz. vol. 181; p. 125.
Stall-guard for animals. L. J. Schmidt. No. 1,047,994; Dec. 24; Gaz. vol. 185; p. 861.
Stall, Sanitary. W. C. Evans. No. 1,032,747; July 16; Gaz. vol. 180; p. 740.
Stalls, Sanitary apparatus for animal-. F. J. Redmond. No. 1,030,921; July 2; Gaz. vol. 180; p. 24.
Stallions, Guard for. D. D. Anderson. No. 1,046,935; Dec. 10; Gaz. vol. 185; p. 434.
Stammering and stuttering, Device for preventing and curing. G. A. Peate and T. Beattie. No. 1,030,964; July 2; Gaz. vol. 180; p. 40.
Stammering and stuttering, Device for preventing and curing. G. A. Peate and T. Beattie. No. 1,030,965; July 2; Gaz. vol. 180; p. 40.
Stamp. O. Ferguson. No. 1,018,308; Feb. 20; Sp. p. 4583; Gaz. vol. 175; p. 786.
Stamp. W. J. Pannier, Jr. No. 1,030,120; June 18; Sp. p. 4462; Gaz. vol. 179; p. 771.
Stamp. J. A. McClure. No. 1,040,719; Oct. 8; Gaz. vol. 183; p. 389.
Stamp-affixer. B. D. Straight. No. 1,021,218; Mar. 26; Sp. p. 4691; Gaz. vol. 176; p. 860.
Stamp-affixer. J. W. Small. No. 1,047,317; Dec. 17; Mar. 19; Sp. p. 3883; Gaz. vol. 176; p. 678.
Stamp-affixer machine. J. A. Markoe. No. 1,035,619; Aug. 13; Gaz. vol. 181; p. 442.
Stamp-affixing device. C. F. Hansen. No. 1,033,069; July 16; Gaz. vol. 180; p. 847.
Stamp-affixing device. A. Hall. No. 1,046,292; Dec. 3; Gaz. vol. 185; p. 172.
Stamp-affixing machine. S. B. White. (Reissue.) No. 13,435; June 25; Sp. p. 6459; Gaz. vol. 179; p. 1077.
Stamp-affixing machine. E. Duplessis. No. 1,035,558; Aug. 13; Gaz. vol. 181; p. 423.
Stamp-affixing machine. S. B. White. No. 1,043,554; Nov. 5; Gaz. vol. 184; p. 183.
Stamp-affixing machine, Postage-. R. E. Nichols. No. 1,046,214; Dec. 3; Gaz. vol. 185; p. 143.
Stamp-applying machine. A. J. Downey. No. 1,033,557; July 23; Gaz. vol. 180; p. 1049.
Stamp, Automatic inking-. G. Carleton. No. 1,042,766; Oct. 29; Gaz. vol. 183; p. 1178.
Stamp-canceling device. C. H. Samberg. No. 1,034,516; Aug. 6; Gaz. vol. 181; p. 39.
Stamp-canceling machine. F. Kester. No. 1,021,608; Mar. 26; Sp. p. 5540; Gaz. vol. 176; p. 995.
Stamp, Dating-. E. H. Sanborn. No. 1,014,260; Jan. 9; Sp. p. 2604; Gaz. vol. 174; p. 434.
Stamp, Dating-. T. R. Post. No. 1,032,769; July 16; Gaz. vol. 180; p. 747.
Stamp, Hand-. M. C. Price. No. 1,025,019; Apr. 30; Sp. p. 7033; Gaz. vol. 177; p. 1235.
Stamp, Hand-. H. S. Folger and A. M. Comstock. No. 1,029,568; June 11; Sp. p. 3245; Gaz. vol. 179; p. 544.
Stamp, Hand-. A. P. Smith. No. 1,038,219; Sept. 10; Gaz. vol. 182; p. 381.
Stamp, Hand-. H. Neumann and A. Dorner. No. 1,045,065; Nov. 19; Gaz. vol. 184; p. 765.
Stamp, Hand-. W. S. Bing. No. 1,048,281; Dec. 24; Gaz. vol. 185; p. 967.
Stamp-handling machine. J. J. Schermack. No. 1,037,546; Sept. 3; Gaz. vol. 182; p. 125.
Stamp-holder. J. J. Davis. No. 1,014,380; Jan. 9; Sp. p. 2882; Gaz. vol. 174; p. 477.
Stamp holder, Hand-. L. H. Moise. No. 1,034,485; Aug. 6; Gaz. vol. 181; p. 28.
Stamp, label, ticket, &c., delivering machine. J. W. Small. No. 1,043,737; Nov. 5; Gaz. vol. 184; p. 242.
Stamp marking machine. C. F. Bush. No. 1,040,617; Oct. 8; Gaz. vol. 183; p. 351.
Stamp-mill. E. Sheffield, Jr. No. 1,015,910; Jan. 30; Sp. p. 6200; Gaz. vol. 174; p. 1081.
Stamp-mill. W. B. Straub. No. 1,038,019; Sept. 10; Gaz. vol. 182; p. 316.
Stamp-mill, Ore-crushing. P. R. Stanhope. No. 1,026,717; May 21; Sp. p. 3577; Gaz. vol. 178; p. 623.
Stamp-mills, Supporting and lifting and adjusting device for. E. H. Moyle. No. 1,040,235; Oct. 1; Gaz. vol. 183; p. 188.
Stamp or label affixing machine. E. R. Jones. No. 1,019,479; Mar. 5; Sp. p. 1088; Gaz. vol. 176; p. 161.
Stamp-pad. H. S. Folger. No. 1,024,193; Apr. 23; Sp. p. 5227; Gaz. vol. 177; p. 916.
Stamp, Pneumatic ore-. H. C. Behr. No. 1,038,521; Sept. 17; Gaz. vol. 182; p. 520.
Stamp rack, Rubber-. G. W. Barnett. No. 1,039,634; Sept. 24; Gaz. vol. 182; p. 922.
Stamp, Rotary hand-. D. E. Walshe. No. 1,020,527; Mar. 19; Sp. p. 3222; Gaz. vol. 176; p. 577.
Stamp supplying and affixing machine. P. G. E. Daniel and C. A. H. Bullock. No. 1,029,671; June 18; Sp. p. 3473; Gaz. vol. 179; p. 615.
Stamps, &c., Machine for applying and affixing. P. G. E. Daniel and C. A. H. Bullock. No. 1,029,672; June 18; Sp. p. 3478; Gaz. vol. 179; p. 616.
Stamps or the like, Step in the mode of making die-. F. de Buigne. No. 1,046,146; Dec. 3; Gaz. vol. 185; p. 120.
Stamps to letters, Apparatus for affixing. H. Angerstein. No. 1,045,113; Nov. 26; Gaz. vol. 184; p. 810.
Stamping apparatus, Typographic. M. E. Blume. No. 1,018,233; Feb. 20; Sp. p. 4438; Gaz. vol. 175; p. 762.
Stamping device. A. C. Blum. No. 1,013,116; Jan. 2; Sp. p. 49; Gaz. vol. 174; p. 10.
Stamping device. W. J. Grotenhuis. No. 1,022,076; Apr. 2; Sp. p. 687; Gaz. vol. 177; p. 110.
Stamping eggs, Self-inking device for. C. E. Crook. No. 1,044,026; Nov. 12; Gaz. vol. 184; p. 375.
Stamping-machine. P. Schwenzow. No. 1,030,132; June 18; Sp. p. 4477; Gaz. vol. 179; p. 774.
Stamping-machine. L. A. Casgrain. No. 1,030,161; June 18; Sp. p. 4536; Gaz. vol. 179; p. 784.
Stamping machine, Cement-pipe-. W. L. Velten. No. 1,024,464; Apr. 23; Sp. p. 5795; Gaz. vol. 177; p. 1006.
Stamping-machine control device, Ticket-. M. Sensenschmidt and E. Kaiser. No. 1,025,317; May 7; Sp. p. 478; Gaz. vol. 178; p. 74.
Stamping machine, Letter-. J. W. Fennel. No. 1,013,383; Jan. 2; Sp. p. 651; Gaz. vol. 174; p. 103.
Stamping-machines, Sheet-feed apparatus for typographic. M. E. Blume. No. 1,016,125; Jan. 30; Sp. p. 6655; Gaz. vol. 174; p. 1157.
Stamping or punching machine, Matrix. F. H. Pierpont. No. 1,042,475; Oct. 29; Gaz. vol. 183; p. 1075.
Stamping plant, Pneumatic. H. C. Behr. No. 1,034,863; Aug. 6; Gaz. vol. 181; p. 156.
Stamping press, Die-. E. W. Savory and A. F. Battey. No. 1,043,362; Nov. 5; Gaz. vol. 184; p. 114.
Stamping-press safety-guard. J. M. Jones. No. 1,020,827; Gaz. vol. 185; p. 599.
Stanchion. W. P. Dawson. No. 1,021,576; Mar. 26; Sp. p. 5481; Gaz. vol. 176; p. 984.
Stanchion. J. N. Jensen. No. 1,040,950; Oct. 8; Gaz. vol. 183; p. 463.
Stanchion and trip-lever. J. Rau. No. 1,020,710; Mar. 19; Sp. p. 3635; Gaz. vol. 176; p. 639.
Stanchion, Cattle-. E. W. Johnson. No. 1,020,354; Mar. 12; Sp. p. 2842; Gaz. vol. 176; p. 481.
Stanchion, Cattle-. F. W. Pruess. No. 1,023,757; Apr. 16; Sp. p. 4198; Gaz. vol. 177; p. 737.
Stanchion, Cattle-. G. Gleason. No. 1,030,724; June 25; Sp. p. 6008; Gaz. vol. 179; p. 1025.
Stanchion, Cattle-. J. Scaramucci. No. 1,031,091; July 2; Gaz. vol. 180; p. 86.
Stanchion, Cattle-. P. B. Bonnette. No. 1,040,864; Oct. 8; Gaz. vol. 183; p. 434.
Stanchion, Cattle-. G. W. Bartz and H. T. Abitz. No. 1,043,390; Nov. 5; Gaz. vol. 184; p. 123.
Stanchion, Cattle-. M. Sheldon. No. 1,045,333; Nov. 26; Gaz. vol. 184; p. 885.
Stand: *See* Bicycle-stand; Boiler-stand; Book-stand; Camera-stand; Cask and barrel stand; Chafing-dish stand; Cleaning-stand; Cycle-stand; Display-stand; Drill-stand; Drill-casing pulling-stand; Electric-light stand; Exhaust-stand; Flat-iron stand; Flower-pot stand; Form-stand; Hat-trimming stand; Ink-bottle stand; Knockdown stand; Lamp-stand; Level-stand; Music-stand; Picker-rod stand; Portable stand; Sad-iron stand; Shoemaker's stand; Signal switch-stand; Smoker's stand; Switch-stand; Talking-machine stand; Telephone-stand; Telescopic stand; Trolley-pole stand; Umbrella-stand; Velocipede-stand; Water-cooler stand.

Alphabetical list of inventions—Continued.

Stand. A. Hering. No. 1,015,183; Jan. 16; Sp. p. 4613; Gaz. vol. 174; p. 778.
Stand-pipe. M. M. Moore. No. 1,038,179; Sept. 10; Gaz. vol. 182; p. 368.
Standard, High-jump. W. S. Tothill. No. 1,033,964; July 30; Gaz. vol. 180; p. 1213.
Staple. W. E. Dean. No. 1,021,664; Mar. 26; Sp. p. 5629; Gaz. vol. 176; p. 1013.
Staple. E. A. Kirkendall. No. 1,024,008; Apr. 23; Sp. p. 4793; Gaz. vol. 177; p. 851.
Staple. J. G. Reber. No. 1,026,050; May 14; Sp. p. 2116; Gaz. vol. 178; p. 359.
Staple. A. I. Muntz. No. 1,035,032; Aug. 6; Gaz. vol. 181; p. 210.
Staple. A. E. Coupal. No. 1,039,103; Sept. 24; Gaz. vol. 182; p. 736.
Staple-anchor. W. L. Keller. No. 1,013,398; Jan. 2; Sp. p. 683; Gaz. vol. 174; p. 108.
Staple forming and driving machines, &c., Work-supporting table for. H. Weber. No. 1,046,695; Dec. 10; Gaz. vol. 185; p. 352.
Staple-forming mechanism. E. P. Sheldon. No. 1,047,314; Dec. 17; Gaz. vol. 185; p. 598.
Staple making and driving machine. W. H. Borden. No. 1,016,930; Feb. 13; Sp. p. 1544; Gaz. vol. 175; p. 274.
Staple making and driving machine. P. A. Coupal. No. 1,025,248; May 7; Sp. p. 303; Gaz. vol. 178; p. 50.
Staple making and driving mechanism. A. E. Coupal. No. 1,035,320; Aug. 13; Gaz. vol. 181; p. 340.
Staple-retainer. R. J. Herrick. (Reissue.) No. 13,494; Dec. 10; Gaz. vol. 185; p. 504.
Stapling-machine. E. T. Greenfield. No. 1,024,889; Apr. 30; Sp. p. 6772; Gaz. vol. 177; p. 1191.
Stapling-machine. L. R. Heim. No. 1,036,841; Aug. 27; Gaz. vol. 181; p. 931.
Stapling-machine clenching device. J. S. Dobbins. No. 1,042,771; Oct. 29; Gaz. vol. 183; p. 1180.
Starch and glucose, Producing. C. C. Moore. No. 1,016,761; Feb. 6; Sp. p. 1181; Gaz. vol. 175; p. 182.
Starch and gluten from wheat-flour, Production of. F. A. V. Klopfer. No. 1,013,497; Jan. 2; Sp. p. 895; Gaz. vol. 174; p. 142.
Starch and product, Treating. A. P. Anderson. No. 1,035,837; Aug. 20; Gaz. vol. 181; p. 552.
Starch and starch materials and product, Treating. A. P. Anderson. No. 1,035,829; Aug. 20; Gaz. vol. 181; p. 549.
Starch by a continuous operation into derivatives, dextrin, dextrose, &c., Apparatus for converting. S. M. Lillie. No. 1,014,311; Jan. 9; Sp. p. 2704; Gaz. vol. 174; p. 452.
Starch-containing flours, Puffing. A. P. Anderson. No. 1,035,836; Aug. 20; Gaz. vol. 181; p. 552.
Starch-containing material, Apparatus for puffing. A. P. Anderson. No. 1,035,840; Aug. 20; Gaz. vol. 181; p. 554.
Starch-conversion process. S. M. Lillie. No. 1,023,257; Apr. 16; Sp. p. 3238; Gaz. vol. 177; p. 579.
Starch, Drying. L. P. Bauer. No. 1,035,302; Aug. 13; Gaz. vol. 181; p. 334.
Starch from starched articles, Apparatus for removing surplus. C. A. Tyler. No. 1,013,337; Jan. 2; Sp. p. 549; Gaz. vol. 174; p. 88.
Starch into glucose, &c., Apparatus for the continuous conversion of. S. M. Lillie. No. 1,038,397; Sept. 10; Gaz. vol. 182; p. 442.
Starch materials, Apparatus for the treatment of. A. P. Anderson. No. 1,035,842; Aug. 20; Gaz. vol. 181; p. 555.
Starch materials, flours, and flour product, Treating. A. P. Anderson. No. 1,035,830; Aug. 20; Gaz. vol. 181; p. 549.
Starch materials, Treating. A. P. Anderson. No. 1,035,835; Aug. 20; Gaz. vol. 181; p. 552.
Starch pebbles, Making. A. P. Anderson. No. 1,035,833; Aug. 20; Gaz. vol. 181; p. 551.
Starch pellets, pebbles, or nodules and making same. A. P. Anderson. No. 1,035,831; Aug. 20; Gaz. vol. 181; p. 550.
Starch, Treating. A. P. Anderson. No. 1,035,834; Aug. 20; Gaz. vol. 181; p. 551.
Starch, &c., Treating. H. C. Neuberger and F. P. Bergh. No. 1,047,831; Dec. 17; Gaz. vol. 185; p. 778.
Starch, Treating and drying. A. P. Anderson. No. 1,035,832; Aug. 20; Gaz. vol. 181; p. 550.
Starching-machine. W. B. Bust. No. 1,046,261; Dec. 3; Gaz. vol. 185; p. 161.
Starter, Potential. H. A. Steen. No. 1,048,907; Dec. 31; Gaz. vol. 185; p. 1211.
Starting and stopping mechanism. A. F. Littlefield. No. 1,048,840; Dec. 31; Gaz. vol. 185; p. 1188.
Starting device. J. McNamee. No. 1,021,939; Apr. 2; Sp. p. 385; Gaz. vol. 177; p. 64.
Starting device. H. Henken. No. 1,029,290; June 11; Sp. p. 2636; Gaz. vol. 179; p. 447.
Starting device. C. T. Henderson. No. 1,042,791; Oct. 29; Gaz. vol. 183; p. 1186.
Starting device, Automatic. E. Cantono. No. 1,049,206; Dec. 31; Gaz. vol. 185; p. 1313.
Starting device, Safety. J. T. Mahoney. No. 1,043,121; Nov. 5; Gaz. vol. 184; p. 25.
Starting device, Safety. N. R. Potter. No. 1,043,142; Nov. 5; Gaz. vol. 184; p. 33.
Starting mechanism. J. S. Laufman. No. 1,023,944; Apr. 23; Sp. p. 4673; Gaz. vol. 177; p. 830.
Station and a moving car, Means for the interchange of messages between a. O. H. and J. L. Smith. No. 1,042,983; Oct. 29; Gaz. vol. 183; p. 1251.
Station-indicating device. C. Schenck and D. I. Cooke. No. 1,032,160; July 9; Gaz. vol. 180; p. 493.
Station-indicator. M. Godfrey, R. Ekron, and H. M. Svebilius. No. 1,013,485; Jan. 2; Sp. p. 863; Gaz. vol. 174; p. 138.
Station-indicator. W. H. Ridgway. No. 1,036,005; Aug. 20; Gaz. vol. 181; p. 609.
Station-indicator. A. J. and F. J. Pancratz. No. 1,036,892; Aug. 27; Gaz. vol. 181; p. 946.
Station-indicator. W. B. Hill. No. 1,044,385; Nov. 12; Gaz. vol. 184; p. 497.
Station-indicator. T. B. Kittrell. No. 1,047,079; Dec. 10; Gaz. vol. 185; p. 480
Station indicator or advertiser. B. R. Skinner. No. 1,027,082; May 21; Sp. p. 4450; Gaz. vol. 178; p. 750.
Station-indicators, Operating device for. W. B. Hill. No. 1,047,806; Dec. 17; Gaz. vol. 185; p. 770.
Stationery-box. A. Ehmling. No. 1,014,581; Jan. 9; Sp. p. 3247; Gaz. vol. 174; p. 541.
Stationery-drying frame, Printer's collapsible. J. C. Burton. No. 1,039,694; Oct. 1; Gaz. vol. 183; p. 7.
Stave. T. S. Holland. No. 1,032,675; July 16; Gaz. vol. 180; p. 715.
Stave-column. C. J. Cieutat. No. 1,041,741; Oct. 22; Gaz. vol. 183; p. 798.
Stave-cutting machine. E. C. Thorschmidt. No. 1,036,747; Aug. 27; Gaz. vol. 181; p. 899.
Stave-equalizing machine, Barrel-. E. F. Beugler. No. 1,018,739; Feb. 27; Sp. p. 5580; Gaz. vol. 175; p. 966.
Stave-jointing machine. P. H. Williams. No. 1,028,648; June 4; Sp. p. 1257; Gaz. vol. 179; p. 194.
Stave-making machine. T. G. Martin. No. 1,032,226; July 9; Gaz. vol. 180; p. 516.
Staves, Manufacture of cask-. C. E. Bratt. No. 1,025,048; Apr. 30; Sp. p. 7085; Gaz. vol. 177; p. 1245.
Stay-bolt. E. W. Clark. No. 1,029,104; June 11; Sp. p. 2252; Gaz. vol. 179; p. 385.
Stay-bolt and means for screwing the same in place. W. L. Decker. No. 1,041,440; Oct. 15; Gaz. vol. 183; p. 662.
Stay-bolts, Manufacturing. J. H. Baker. No. 1,022,998; Apr. 9; Sp. p. 2652; Gaz. vol. 177; p. 452.
Stay, Corset-. G. E. Hawes. No. 1,022,364; Apr. 2; Sp. p. 1274; Gaz. vol. 177; p. 205.
Stay, Garment-. C. A. Maguire. No. 1,035,983; Aug. 20; Gaz. vol. 181; p. 602.
Stay, Garment-. M. M. Beeman. No. 1,038,828; Sept. 17; Gaz. vol. 182; p. 628.
Stay-wire-twisting device. W. P. Madson, R. Christenson, A. Ingbretson, and W. Nowship. No. 1,045,994; Dec. 3; Gaz. vol. 185; p. 67.
Steam-accumulator. R. H. Rice and F. A. Larkin. No. 1,017,590; Feb. 13; Sp. p. 2970; Gaz. vol. 175; p. 502.
Steam-accumulator regulator. E. Harlé. No. 1,023,376; Apr. 16; Sp. p. 3466; Gaz. vol. 177; p. 619.
Steam, air, or other gas meter. G. H. Barrus. No. 1,047,911; Dec. 24; Gaz. vol. 185; p. 835.
Steam and gas meter and calorimeter. C. C. Thomas. No. 1,043,983; Nov. 12; Gaz. vol. 184; p. 361.
Steam and hot-water furnace. J. Callicott. No. 1,041,737; Oct. 22; Gaz. vol. 183; p. 797.
Steam and hot-water heater. L. K. Peck. No. 1,023,591; Apr. 16; Sp. p. 3906; Gaz. vol. 177; p. 681.
Steam and other gaseous or liquid bodies, Apparatus for treating. W. H. Yardley No. 1,027,962; May 28; Sp. p. 6302; Gaz. vol. 178; p. 1083.
Steam and vacuum trap. J. E. L. Ogden. No. 1,047,437; Dec. 17; Gaz. vol. 185; p. 639.
Steam, Apparatus for diverting exhaust-. F. F. Coggin. No. 1,042,398; Oct. 29; Gaz vol. 183; p. 1047.
Steam-boiler. E. Boelzner. No. 1,015,936; Jan. 30; Sp. p. 6252; Gaz. vol. 174; p. 1089.
Steam-boiler. M. Kelly. No. 1,018,425; Feb. 27; Sp. p. 4852; Gaz. vol. 175; p. 859.
Steam-boiler. J. M. Cameron. No. 1,018,873; Feb. 27; Sp. p. 5858; Gaz. vol. 175; p. 1011.
Steam-boiler. H. V. Brady. No. 1,024,058; Apr. 23; Sp. p. 4906; Gaz. vol. 177; p. 869.
Steam-boiler. W. A. Woodeson. No. 1,030,218; June 18; Sp. p. 4676; Gaz. vol. 179; p. 804.
Steam-boiler. A. Halecki. No. 1,032,135; July 9; Gaz. vol. 180; p. 484.
Steam-boiler. H. L. Doherty. No. 1,034,218; July 30; Gaz. vol. 180; p. 1302.
Steam-boiler. J. Barrow. No. 1,034,337; July 30; Gaz. vol. 180; p. 1342.
Steam-boiler. C. Kroeschell. No. 1,035,607; Aug. 13; Gaz. vol. 181; p. 439.
Steam-boiler. M. W. Sewall. No. 1,035,646; Aug. 13; Gaz. vol. 181; p. 452.
Steam-boiler. M. F. Kennen. No. 1,037,776; Sept. 3; Gaz. vol. 182; p. 200.
Steam-boiler. L. W. G. Flynt. No. 1,037,884; Sept. 10; Gaz. vol. 182; p. 269.
Steam-boiler. M. Kelly. No. 1,041,295; Oct. 15; Gaz. vol. 183; p. 615.

Alphabetical list of inventions—Continued.

Steam-boiler and water-heater, Combination. L. Lukács. No. 1,037,029; Aug. 27; Gaz. vol. 181; p. 993.
Steam-boiler, Oil-burning. W. J. McLean and J. L. McCauley. No. 1,039,570; Sept. 24; Gaz. vol. 182; p. 901.
Steam-boiler working as an electric transformer. J. Bally. No. 1,040,994; Oct. 15; Gaz. vol. 183; p. 512.
Steam detector, Waste-. F. J. Zerbee. No. 1,027,368; May 21; Sp. p. 5027; Gaz. vol. 178; p. 847.
Steam-driving system. J. F. Metten. No. 1,047,908; Dec. 17; Gaz. vol. 185; p. 805.
Steam-engine. E. W. Conkell. No. 1,015,993; Jan. 30; Sp. p. 6375; Gaz. vol. 174; p. 1110.
Steam-engine. G. Psareas and N. Balezos. No. 1,016,955; Feb. 13; Sp. p. 1612; Gaz. vol. 175; p. 284.
Steam-engine. A. A. Holle. No. 1,023,648; Apr. 16; Sp. p. 4016; Gaz. vol. 177; p. 705.
Steam-engine. W. English. No. 1,025,385; May 7; Sp. p. 624; Gaz. vol. 178; p. 97.
Steam-engine. C. A. Johnson. No. 1,028,466; June 4; Sp. p. 887; Gaz. vol. 179; p. 134.
Steam-engine. J. Stumpf. No. 1,028,631; June 4; Sp. p. 1224; Gaz. vol. 179; p. 188.
Steam-engine. J. Stumpf. No. 1,028,632; June 4; Sp. p. 1226; Gaz. vol. 179; p. 189.
Steam-engine. W. R. Sanders. No. 1,028,840; June 4; Sp. p. 1661; Gaz. vol. 179; p. 259.
Steam-engine. E. J. Armstrong. No. 1,029,253; June 11; Sp. p. 2566; Gaz. vol. 179; p. 435.
Steam-engine. F. F. Nickel. No. 1,031,576; July 2; Gaz. vol. 180; p. 252.
Steam-engine. L. Skinner and E. F. Williams. No. 1,033,280; July 23; Gaz. vol. 180; p. 958.
Steam-engine. F. M. Prescott and E. P. Worden. No. 1,033,930; July 30; Gaz. vol. 180; p. 1200.
Steam-engine. E. W. Phillips. No. 1,036,701; Aug. 27; Gaz. vol. 181; p. 884.
Steam-engine. J. M. Parsons. No. 1,036,895; Aug. 27; Gaz. vol. 181; p. 947.
Steam-engine. P. Gerli. No. 1,037,467; Sept. 3; Gaz. vol. 182; p. 99.
Steam-engine. J. Stumpf. No. 1,042,051; Oct. 22; Gaz. vol. 183; p. 905.
Steam-engine. J. Stumpf. No. 1,042,168; Oct. 22; Gaz. vol. 183; p. 943.
Steam-engine. H. Buchmann. No. 1,042,196; Oct. 22; Gaz. vol. 183; p. 952.
Steam-engine. J. Stumpf. No. 1,043,479; Nov. 5; Gaz. vol. 184; p. 156.
Steam-engine. M. A. Green. No. 1,045,698; Nov. 26; Gaz. vol. 184; p. 1016.
Steam-engine. F. Fuchs. No. 1,046,170; Dec. 3; Gaz. vol. 185; p. 127.
Steam-engine. J. H. K. McCollum. No. 1,046,827; Dec. 10; Gaz. vol. 185; p. 397.
Steam-engine, Condensing. J. Davidson. No. 1,018,300; Feb. 20; Sp. p. 4566; Gaz. vol. 175; p. 784.
Steam-engine of the Corliss type. F. P. Ide. No. 1,026,643; May 14; Sp. p. 3404; Gaz. vol. 178; p. 560.
Steam-engine or the like. J. B. Allfree. No. 1,038,261; Sept. 10; Gaz. vol. 182; p. 397.
Steam-engine, Revolving-piston rotary. J. E. Sackett. No. 1,022,265; Apr. 2; Sp. p. 1078; Gaz. vol. 177; p. 172.
Steam-engine, Unidirectional-flow. J. Stumpf. No. 1,045,630; Nov. 26; Gaz. vol. 184; p. 992.
Steam-feed and piston-rod support, Automatic. W. Van der Least. No. 1,042,849; Oct. 29; Gaz. vol. 183; p. 1206.
Steam-gage and safety-valve, Combined. J. N. Angell. No. 1,044,001; Nov. 12; Gaz. vol. 184; p. 368.
Steam, Generating. H. I. Lea. No. 1,031,721; July 9; Gaz. vol. 180; p. 345.
Steam-generating boiler. L. D. Lovekin. No. 1,014,238; Jan. 9; Sp. p. 2559; Gaz. vol. 174; p. 427.
Steam-generating system. S. H. Shepherd. No. 1,016,857; Feb. 6; Sp. p. 1379; Gaz. vol. 175; p. 213.
Steam generation, feed-water heating, and heating of liquids generally. W. A. Bone, J. W. Wilson, and C. D. McCourt. No. 1,015,261; Jan. 16; Sp. p. 4778; Gaz. vol. 174; p. 804.
Steam-generator. J. W. Kidney. No. 1,021,935; Apr. 2; Sp. p. 375; Gaz. vol. 177; p. 62.
Steam-generator. V. H. and J. H. T. Mills. No. 1,024,521; Apr. 30; Sp. p. 5966; Gaz. vol. 177; p. 1063.
Steam-generator. L. W. G. Flynt. No. 1,024,845; Apr. 30; Sp. p. 6688; Gaz. vol. 177; p. 1177.
Steam-generator. A. L. Austin. No. 1,027,398; May 28; Sp. p. 5102; Gaz. vol. 178; p. 895.
Steam-generator. L. M. G. Delaunay-Belleville. No. 1,031,776; July 9; Gaz. vol. 180; p. 364.
Steam-generator. G. E. Whitney. No. 1,032,459; July 16; Gaz. vol. 180; p. 640.
Steam-generator. A. A. Cary. No. 1,034,079; July 30; Gaz. vol. 180; p. 1253.
Steam-generator. P. A. Talbot. No. 1,038,024; Sept. 10; Gaz. vol. 182; p. 318.
Steam-generator. I. Wichrowski and J. Piotrowski. No. 1,038,250; Sept. 10; Gaz. vol. 182; p. 393.
Steam-generator. H. Clifton. No. 1,039,256; Sept. 24; Gaz. vol. 182; p. 791.
Steam-generator. C. C. Worthington. No. 1,040,481; Oct. 8; Gaz. vol. 183; p. 302.
Steam-generator. C. W. Cliff and H. T. Maze. No. 1,040,510; Oct. 8; Gaz. vol. 183; p. 313.
Steam-generator. W. H. Stewart. No. 1,041,188; Oct. 15; Gaz. vol. 183; p. 578.
Steam-generator. S. H. Shepherd. No. 1,043,634; Nov. 5; Gaz. vol. 184; p. 209.
Steam-regenerator. A. Sorge. No. 1,045,904; Dec. 3; Gaz. vol. 185; p. 37.
Steam-generator. F. L. Benedict. No. 1,047,152; Dec. 17; Gaz. vol. 185; p. 537.
Steam-generator, Electric. S. Schoenbroon. No. 1,028,912; June 11; Sp. p. 1833; Gaz. vol. 179; p. 318.
Steam-generator for liquid-fuel burners. D. Brian. No. 1,034,869; Aug. 6; Gaz. vol. 181; p. 158.
Steam-generator-regulating apparatus. B. F. Silliman. No. 1,015,848; Jan. 30; Sp. p. 6065; Gaz. vol. 174; p. 1058.
Steam-generator, Solar. T. F. Nichols. No. 1,047,554; Dec. 17; Gaz. vol. 185; p. 682.
Steam-generator, Water-tube. R. Helm. No. 1,046,387; Dec. 3; Gaz. vol. 185; p. 205.
Steam-generators, Fuel and water regulator for. R. Miehle. No. 1,026,693; May 21; Sp. p. 3522; Gaz. vol. 178; p. 614.
Steam-generators, Heating or circulation of. J. E. Fletcher. No. 1,032,197; July 9; Gaz. vol. 180; p. 506.
Steam in steam-generators, Device for purifying. M. Luhn. No. 1,044,208; Nov. 12; Gaz. vol. 184; p. 437.
Steam in turbine plants, Utilizing exhaust-. G. Forner. No. 1,029,353; June 11; Sp. p. 2789; Gaz. vol. 179; p. 470.
Steam-lubricator. A. Mlitz. No. 1,033,339; July 23; Gaz. vol. 180; p. 977.
Steam, Means and apparatus for the generation of. W. A. Bone, J. W. Wilson, and C. D. McCourt. No. 1,015,131; Jan. 16; Sp. p. 4521; Gaz. vol. 174; p. 762.
Steam or hot-water heater. A. Mauger and J. L. Hinderer. No. 1,027,389; May 21; Sp. p. 5077; Gaz. vol. 178; p. 854.
Steam production, Regulating and controlling. E. Thomson. No. 1,015,982; Jan. 30; Sp. p. 6355; Gaz. vol. 174; p. 1106.
Steam production, Regulation and control of. E. Thomson. No. 1,015,983; Jan. 30; Sp. p. 6357; Gaz. vol. 174; p. 1106.
Steam regeneration. A. Sorge. No. 1,015,277; Jan. 16; Sp. p. 4813; Gaz. vol. 174; p. 810.
Steam, Regulating the production of. H. Lemp. No. 1,015,043; Jan. 16; Sp. p. 4355; Gaz. vol. 174; p. 731.
Steam-separator. W. C. Mitchell. No. 1,013,677; Jan. 2; Sp. p. 1301; Gaz. vol. 174; p. 203.
Steam-separator. E. D. Packard. No. 1,019,350; Mar. 5; Sp. p. 775; Gaz. vol. 176; p. 119.
Steam-separator. E. K. Standish. No. 1,039,836; Oct. 1; Gaz. vol. 183; p. 56.
Steam-superheating apparatus. E. H. Foster. No. 1,047,027; Dec. 10; Gaz. vol. 185; p. 463.
Steam-table and dish-warmer. F. Herzog. No. 1,044,525; Nov. 19; Gaz. vol. 184; p. 576.
Steam-trap. W. and T. W. Moll. No. 1,013,507; Jan. 2; Sp. p. 909; Gaz. vol. 174; p. 145.
Steam-trap. G. W. Nistle. No. 1,025,293; May 7; Sp. p. 399; Gaz. vol. 178; p. 66.
Steam-trap. G. C. La Mountain. No. 1,028,744; June 4; Sp. p. 1463; Gaz. vol. 179; p. 226.
Steam-trap. T. R. Whittaker and G. W. Leith. No. 1,030,697; June 25; Sp. p. 5941; Gaz. vol. 179; p. 1015.
Steam-trap. J. H. Hines. No. 1,032,005; July 9; Gaz. vol. 180; p. 442.
Steam-trap. H. D. Singer and H. V. Pratt. No. 1,032,787; July 16; Gaz. vol. 180; p. 753.
Steam-trap. C. A. Dunham. No. 1,035,557; Aug. 13; Gaz. vol. 181; p. 422.
Steam-trap. J. D. Westcott. No. 1,039,621; Sept. 24; Gaz. vol. 182; p. 918.
Steam-trap. E. E. Gold. No. 1,043,046; Oct. 29; Gaz. vol. 183; p. 1274.
Steam-trap. C. J. Mackerey. No. 1,044,211; Nov. 12; Gaz. vol. 184; p. 438.
Steam-trap. H. J. Wiederecht. No. 1,046,131; Dec. 3; Gaz. vol. 185; p. 114.
Steam-trap. J. P. Harnly. No. 1,048,531; Dec. 31; Gaz. vol. 185; p. 1081.
Steam trap or valve. J. L. Fitts. No. 1,037,228; Sept. 3; Gaz. vol. 182; p. 17.
Steam, Utilizing exhaust-. J. Schindler. No. 1,036,915; Aug. 27; Gaz. vol. 181; p. 953.
Steam, Utilizing waste. W. Kieser. No. 1,020,704; Mar. 19; Sp. p. 3625; Gaz. vol. 176; p. 637.
Steamer. S. B. Goff. No. 1,026,390; May 14; Sp. p. 2873; Gaz. vol. 178; p. 476.
Steamer. F. Sardou. No. 1,033,274; July 23; Gaz. vol. 180; p. 956.
Steel and other metals, Compound for hardening. P. W. Brennan and M. Meehan. No. 1,036,434; Aug. 20; Gaz. vol. 181; p. 761.
Steel, Apparatus for the manufacture of. W. R. Walker and J. H. Gray. No. 1,018,644; Feb. 27; Sp. p. 5385; Gaz. vol. 175; p. 933.

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Steel, Apparatus for the production of. H. Johnson. No. 1,032,217; July 9; Gaz. vol. 180; p. 513.
Steel bars and the like, Formation of. W. K. Riley. No. 1,030,831; June 25; Sp. p. 6382; Gaz. vol. 179; p. 1064.
Steel, Case-hardening. K. Blake. No. 1,034,962; Aug. 6; Gaz. vol. 181; p. 188.
Steel forgings, Production of manganese-. W. S. Potter. No. 1,018,362; Feb. 20; Sp. p. 4684; Gaz. vol. 175; p. 805.
Steel, Hardening and tempering. J. M. Lynch. No. 1,029,877; June 18; Sp. p. 3953; Gaz. vol. 179; p. 688.
Steel, Heat treatment and rolling of manganese. W. S. Potter. No. 1,018,000; Feb. 20; Sp. p. 3935; Gaz. vol. 175; p. 680.
Steel, Heat treatment of manganese. W. S. Potter. No. 1,017,907; Feb. 20; Sp. p. 3736; Gaz. vol. 175; p. 650.
Steel implements, Manufacturing embossed steel-handled. P. W. Powers. No. 1,020,158; Mar. 12; Sp. p. 2458; Gaz. vol. 176; p. 418.
Steel, Machining manganese. W. S. Potter. No. 1,018,001; Feb. 20; Sp. p. 3937; Gaz. vol. 175; p. 681.
Steel, Making. F. B. Lamb. No. 1,036,498; Aug. 20; Gaz. vol. 181; p. 784.
Steel, Making. J. McConnell. No. 1,039,428; Sept. 24; Gaz. vol. 182; p. 850.
Steel manufacture. W. R. Walker. No. 1,035,280; Aug. 13; Gaz. vol. 181; p. 325.
Steel, Manufacture of. W. R. Walker. No. 1,014,425; Jan. 9; Sp. p. 2969; Gaz. vol. 174; p. 492.
Steel, Manufacture of. T. D. Mackie and G. F. Forwood. No. 1,024,999; Apr. 30; Sp. p. 7000; Gaz. vol. 177; p. 1230.
Steel, Manufacture of. P. Girod. No. 1,043,090; Nov. 5; Gaz. vol. 184; p. 14.
Steel, Manufacture of perforated plates of manganese. W. S. Potter. No. 1,018,370; Feb. 20; Sp. p. 4705; Gaz. vol. 175; p. 807.
Steel, Manufacture of sheets and plates of manganese. W. S. Potter. No. 1,017,903; Feb. 20; Sp. p. 3726; Gaz. vol. 175; p. 649.
Steel, Manufacture of sheets or plates of manganese. W. S. Potter. No. 1,017,908; Feb. 20; Sp. p. 3738; Gaz. vol. 175; p. 650.
Steel, Manufacture of sheets or plates of manganese. W. S. Potter. No. 1,018,002; Feb. 20; Sp. p. 3938; Gaz. vol. 175; p. 681.
Steel, Manufacturing. H. A. Brassert. No. 1,032,653; July 16; Gaz. vol. 180; p. 707.
Steel, Manufacturing. H. A. Brassert. No. 1,032,655; July 16; Gaz. vol. 180; p. 707.
Steel, Manufacturing. H. D. Hibbard. No. 1,035,120; Aug. 6; Gaz. vol. 181; p. 239.
Steel metal. A. J. Rossi. No. 1,029,637; June 18; Sp. p. 3391; Gaz. vol. 179; p. 604.
Steel metals, Producing. A. J. Rossi. No. 1,017,807; Feb. 20; Sp. p. 3485; Gaz. vol. 175; p. 613.
Steel-mold. W. N. Bennett. No. 1,027,585; May 28; Sp. p. 5479; Gaz. vol. 178; p. 958.
Steel, Open-hearth process of refining. G. Barbanson and M. Lepersonne. No. 1,030,152; June 18; Sp. p. 4523; Gaz. vol. 179; p. 781.
Steel plate and like article, Hardened-. H. A. Richardson. No. 1,035,908; Aug. 20; Gaz. vol. 181; p. 578.
Steel plates, Manufacturing. F. Giolitti. No. 1,024,770; Apr. 30; Sp. p. 6530; Gaz. vol. 177; p. 1149.
Steel poor in carbon, Hardening. C. Burian. No. 1,042,999; Oct. 29; Gaz. vol. 183; p. 1257.
Steel, Producing alloy. A. E. Greene. No. 1,034,786; Aug. 6; Gaz. vol. 181; p. 129.
Steel, Producing rolled shapes of manganese. W. S. Potter. No. 1,017,904; Feb. 20; Sp. p. 3727; Gaz. vol. 175; p. 649.
Steel, Producing wrought shapes of manganese. W. S. Potter. No. 1,017,906; Feb. 20; Sp. p. 3732; Gaz. vol. 175; p. 650.
Steel, Production of machined shapes of manganese. W. S. Potter. No. 1,018,366; Feb. 20; Sp. p. 4696; Gaz. vol. 175; p. 806.
Steel, Production of sheets and plates of manganese. W. S. Potter. No. 1,017,905; Feb. 20; Sp. p. 3730; Gaz. vol. 175; p. 649.
Steel, Production of wrought shapes of manganese. W. S. Potter. No. 1,018,367; Feb. 20; Sp. p. 4697; Gaz. vol. 175; p. 806.
Steel shapes, Heat treatment of large manganese-. W. S. Potter. No. 1,018,368; Feb. 20; Sp. p. 4700; Gaz. vol. 175; p. 807.
Steel stamp-shoes, Making manganese-. F. A. Haughton. No. 1,033,800; July 30; Gaz. vol. 180; p. 1154.
Steel tie and rail-fastener. F. Zeller. No. 1,037,403; Sept. 3; Gaz. vol. 182; p. 76.
Steel tie, Insulated cushion. T. E. Vaughn. No. 1,017,826; Feb. 20; Sp. p. 3520; Gaz. vol. 175; p. 619.
Steel, Treating. A. J. Rossi. No. 1,028,389; June 4; Sp. p. 704; Gaz. vol. 179; p. 107.
Steel, Treating. B. C. Calderwood. No. 1,044,486; Nov. 19; Gaz. vol. 184; p. 562.
Steel, Treatment of molten. J. W. Richards. No. 1,037,536; Sept. 3; Gaz. vol. 182; p. 122.
Steel, Unmagnetizable. F. Kohlhaas. (Reissue.) No. 13,440; July 9; Gaz. vol. 180; p. 567.
Steel wire, Manufacture of manganese-. W. S. Potter. No. 1,018,369; Feb. 20; Sp. p. 4702; Gaz. vol. 175; p. 807.
Steering and propelling device, Boat. J. E. Haschke. No. 1,021,408; Mar. 26; Sp. p. 5129; Gaz. vol. 176; p. 928.
Steering apparatus, Fluid-pressure. E. E. Bryant. No. 1,036,071; Aug. 20; Gaz. vol. 181; p. 633.
Steering apparatus, Vessel-. J. Irvin. No. 1,037,011; Aug. 27; Gaz. vol. 181; p. 987.
Steering device. J. and E. Botsch. No. 1,027,981; May 28; Sp. p. 6349; Gaz. vol. 178; p. 1090.
Steering device, Automatic. A. T. Nelson. No. 1,015,061; Jan. 16; Sp. p. 4392; Gaz. vol. 174; p. 737.
Steering device, Automatic. J. Y. James. No. 1,047,644; Dec. 17; Gaz. vol. 185; p. 714.
Steering device, Auxiliary. J. M. Topper and G. H. Chaplain. No. 1,020,465; Mar. 19; Sp. p. 3079; Gaz. vol. 176; p. 557.
Steering device for motor-boats. N. Roe. No. 1,021,267; Mar. 26; Sp. p. 4803; Gaz. vol. 176; p. 877.
Steering-gear. G. H. Chaplain. No. 1,015,295; Jan. 23; Sp. p. 4860; Gaz. vol. 174; p. 842.
Steering-gear. C. J. Engle, B. W. Freeman, and D. E. Neal. No. 1,029,052; June 11; Sp. p. 2135; Gaz. vol. 179; p. 368.
Steering-gear. A. A. Waite. No. 1,043,178; Nov. 5; Gaz. vol. 184; p. 48.
Steering-gear. C. H. Willard. No. 1,045,922; Dec. 3; Gaz. vol. 185; p. 43.
Steering-gear. J. B. Dunlop. No. 1,046,158; Dec. 3; Gaz. vol. 185; p. 124.
Steering-gear. G. W. Seaman. No. 1,048,748; Dec. 31; Gaz. vol. 185; p. 1156.
Steering-gear, Compensating. E. T. Reichert, Jr. No. 1,022,207; Apr. 2; Sp. p. 966; Gaz. vol. 177; p. 155.
Steering-gearing. V. M. Moore. No. 1,033,442; July 23; Gaz. vol. 180; p. 1010.
Steering-indicator. F. B. Mills. No. 1,044,901; Nov. 19; Gaz. vol. 184; p. 707.
Steering mechanism. W. E. Christopher. No. 1,024,182; Apr. 23; Sp. p. 5191; Gaz. vol. 177; p. 912.
Steering mechanism. A. Thurman. No. 1,025,432; May 7; Sp. p. 708; Gaz. vol. 178; p. 113.
Steering mechanism. G. A. Anderson. No. 1,025,604; May 7; Sp. p. 1110; Gaz. vol. 178; p. 172.
Steering mechanism. M. L. Williams. No. 1,026,728; May 21; Sp. p. 3606; Gaz. vol. 178; p. 626.
Steering mechanism. C. T. Genzel. No. 1,043,088; Nov. 5; Gaz. vol. 184; p. 14.
Steering mechanism. F. M. Sadler. No. 1,048,890; Dec. 31; Gaz. vol. 185; p. 1206.
Steering mechanism, Adjustable. P. Hansmann. No. 1,026,312; May 14; Sp. p. 2691; Gaz. vol. 178; p. 450.
Steering mechanism, Keel. F. J. Tilton. No. 1,032,965; July 16; Gaz. vol. 180; p. 810.
Steering moving objects, particularly ships and flying-machines, Apparatus for. V. Alexieff. No. 1,016,240; Jan. 30; Sp. p. 6871; Gaz. vol. 174; p. 1193.
Steering-post switch. J. G. Perrin. No. 1,030,124; June 18; Sp. p. 4467; Gaz. vol. 179; p. 772.
Steering-wheel. J. L. Prather. No. 1,026,122; May 14; Sp. p. 2285; Gaz. vol. 178; p. 385.
Steering-wheel device. A. M. Squire. No. 1,037,354; Sept. 3; Gaz. vol. 182; p. 59.
Stem-making machine, Automatic. J. E. Graybill. No. 1,019,457; Mar. 5; Sp. p. 1038; Gaz. vol. 176; p. 153.
Stencil-cutting machine, Electric. E. A. Ivatts. No. 1,034,620; Aug. 6; Gaz. vol. 181; p. 72.
Stencil-holder, Decorator's. G. Weide, Sr. No. 1,030,498; June 25; Sp. p. 5327; Gaz. vol. 179; p. 943.
Stencil-strip. S. Elliott. No. 1,034,600; Aug. 6; Gaz vol. 181; p. 65.
Stenciling designs on surfaces, Apparatus for. W. B. Slater. No. 1,040,797; Oct. 8; Gaz. vol. 183; p. 413.
Stenciling device. R. Gottlieb. No. 1,013,597; Jan. 2; Sp. p. 1095; Gaz. vol. 174; p. 176.
Stenciling-machine. C. Gibbs and J. Sokolov. No. 1,041,775; Oct. 22; Gaz. vol. 183; p. 811.
Stenciling-machine. A. J. Smith. No. 1,044,426; Nov. 12; Gaz. vol. 184; p. 512.
Stenciling-machine. C. Gibbs and J. Sokolov. No. 1,046,581; Dec. 10; Gaz. vol. 185; p. 312.
Step. J. Hugyik. No. 1,027,338; May 21; Sp. p. 4964; Gaz. vol. 178; p. 835.
Step, Extensible. C. H. Stark. No. 1,017,116; Feb. 13; Sp. p. 1976; Gaz. vol. 175; p. 340.
Step, Folding. J. P. Deimling. No. 1,048,502; Dec. 31; Gaz. vol. 185; p. 1070.
Step-joint, Angle-bar. B. Wolhaupter. No. 1,045,350; Nov. 26; Gaz. vol. 184; p. 892.
Steps, Folding. M. Jefferson. No. 1,026,167; May 14; Sp. p. 2373; Gaz. vol. 178; p. 400.
Stereopticon. F. Schwanhäusser. No. 1,020,371; Mar. 12; Sp. p. 2875; Gaz. vol. 176; p. 487.
Stereopticon. A. M. Smiley. No. 1,037,346; Sept. 3; Gaz. vol. 182; p. 55.
Stereopticon announcement-slide. C. E. Battershall and F. L. Oleson. No. 1,018,230; Feb. 20; Sp. p. 4431; Gaz. vol. 175; p. 761.
Stereoscope, Folding. F. Berger. No. 1,024,613; Apr. 30; Sp. p. 6202; Gaz. vol. 177; p. 1094.

Alphabetical list of inventions—Continued.

Stereoscopic apparatus. H. Newman. No. 1,018,439; Feb. 27; Sp. p. 4880; Gaz. vol. 175; p. 864.
Stereotype-matrices, Apparatus for preparing. J. P. Bland. No. 1,040,861; Oct. 8; Gaz. vol. 183; p. 432.
Stereotype-plate-casting machine. H. M. Barber. No. 1,033,372; July 23; Gaz. vol. 180; p. 989.
Stereotype-plate cutter. F. J. Matych. No. 1,016,347; Feb. 6; Sp. p. 254; Gaz. vol. 175; p. 39.
Stereotype-plate molds, Matrix for. A. Egli. No. 1,026,739; May 21; Sp. p. 3627; Gaz. vol. 178; p. 630.
Stereotype-plate trimmer, Semicylindrical-. J. F. Frey. No. 1,027,833; May 28; Sp. p. 5996; Gaz. vol. 178; p. 1040.
Stereotype-plates, Forming. H. M. Barber. No. 1,033,371; July 23; Gaz. vol. 180; p. 988.
Stereotype-plates, Machine for casting and finishing. A. Egli. No. 1,028,694; June 4; Sp. p. 1343; Gaz. vol. 179; p. 209.
Stereotype-plates, Method and apparatus for making. J. M. Dow. No. 1,022,067; Apr. 2; Sp. p. 668; Gaz. vol. 177; p. 107.
Stereotyper's steam-table. A. Waldt. No. 1,029,647; June 18; Sp. p. 3410; Gaz. vol. 179; p. 607.
Sterilization of milk or other liquids, Apparatus for the. T. G. Mollinger. No. 1,045,056; Nov. 19; Gaz. vol. 184; p. 761.
Sterilization of water by ozonation, Apparatus for effecting the. E. L. Joseph. No. 1,047,534; Dec. 17; Gaz. vol. 185; p. 674.
Sterilizer. W. T. Herndon. No. 1,023,646; Apr. 16; Sp. p. 4014; Gaz. vol. 177; p. 705.
Sterilizer. R. L. Spaulding. No. 1,028,297; June 4; Sp. p. 510; Gaz. vol. 179; p. 75.
Sterilizer. W. J. Bell. No. 1,032,647; July 16; Gaz. vol. 180; p. 704.
Sterilizer. R. P. Barnstead. No. 1,039,243; Sept. 24; Gaz. vol. 182; p. 786.
Sterilizing apparatus. J. H. Scott. No. 1,019,538; Mar. 5; Sp. p. 1212; Gaz. vol. 176; p. 180.
Sterilizing apparatus. H. Op de Hipt. No. 1,021,946; Apr. 2; Sp. p. 405; Gaz. vol. 177; p. 67.
Sterilizing apparatus. J. Hauk, Jr. No. 1,037,247; Sept. 3; Gaz. vol. 182; p. 24.
Sterilizing apparatus. J. W. Offutt. No. 1,046,842; Dec. 10; Gaz. vol. 185; p. 403.
Sterilizing apparatus, Liquid-. E. Ey. No. 1,046,061; Dec. 3; Gaz. vol. 185; p. 90.
Sterilizing-cabinet. J. A. Goodway. No. 1,048,822; Dec. 31; Gaz. vol. 185; p. 1183.
Sterilizing device. J. J. Hardie and F. N. Kistner. No. 1,036,837; Aug. 27; Gaz. vol. 181; p. 929.
Sterilizing liquids by means of ultraviolet rays, Apparatus for. A. Neveu. No. 1,038,631; Sept. 17; Gaz. vol. 182; p. 560.
Sterilizing milk and other organic liquids, Process and apparatus for. J. Desmaroux. No. 1,036,806; Aug. 27; Gaz. vol. 181; p. 918.
Stethoscope, hearing-trumpet, ear-trumpet, &c. O. Bolte. No. 1,044,858; Nov. 19; Gaz. vol. 184; p. 692.
Stethoscope, Localizing-. D. O. Fosgate. No. 1,015,163; Jan. 16; Sp. p. 4574; Gaz. vol. 174; p. 771.
Stick. E. Witzenmann. No. 1,028,649; June 4; Sp. p. 1264; Gaz. vol. 179; p. 194.
Stiffening device for garments. M. M. McDermott. No. 1,019,339; Mar. 5; Sp. p. 745; Gaz. vol. 176; p. 116.
Still. R. H. McMillen. No. 1,019,069; Mar. 5; Sp. p. 137; Gaz. vol. 176; p. 23.
Still, Ammonia-. H. S. Davis. No. 1,015,145; Jan. 16; Sp. p. 4543; Gaz. vol. 174; p. 766.
Stilt. H. S. Thomas. No. 1,013,828; Jan. 2; Sp. p. 1609; Gaz. vol. 174; p. 257.
Stilt. A. H. Mann. No. 1,037,503; Sept. 3; Gaz. vol. 182; p. 111.
Stilt, Adjustable. L. P. Bramhall. No. 1,032,323; July 9; Gaz. vol. 180; p. 550.
Stirrer or conveyer. D. J. Nevill. No. 1,039,785; Oct. 1; Gaz. vol. 183; p. 39.
Stirring device. R. O. Stutsman. No. 1,044,706; Nov. 19; Gaz. vol. 184; p. 640.
Stirring device. C. H. Anthony. No. 1,048,025; Dec. 24; Gaz. vol. 185; p. 871.
Stirrup. J. C. Miller. No. 1,028,763; June 4; Sp. p. 1498; Gaz. vol. 179; p. 232.
Stirrup. E. E. Reed. No. 1,044,419; Nov. 12; Gaz. vol. 184; p. 510.
Stirrup, Metal-bound. O. V. Flora. No. 1,020,752; Mar. 19; Sp. p. 3726; Gaz. vol. 176; p. 654.
Stirrup, Safety-. M. F. Ferrell. No. 1,020,272; Mar. 12; Sp. p. 2697; Gaz. vol. 176; p. 457.
Stirrup, Safety-. B. Myers. No. 1,025,824; May 7; Sp. p. 1569; Gaz. vol. 178; p. 248.
Stirrup, Safety-. A. C. Swanson. No. 1,048,229; Dec. 24; Gaz. vol. 185; p. 939.
Stirrup, Safety-. H. O. Bridgforth. No. 1,048,803; Dec. 31; Gaz. vol. 185; p. 1177.
Stitch-forming device. S. W. Wardwell. No. 1,019,208; Mar. 5; Sp. p. 443; Gaz. vol. 176; p. 71.
Stitch-forming mechanism. A. Grieb. No. 1,013,155; Jan. 2; Sp. p. 132; Gaz. vol. 174; p. 23.
Stitch-forming mechanism. E. B. Allen. No. 1,030,046; June 18; Sp. p. 4313; Gaz. vol. 179; p. 746.
Stitch-forming mechanism, Loop-lock-. G. S. Savignac and C. E. Myers. No. 1,016,899; Feb. 6; Sp. p. 1469; Gaz. vol. 175; p. 227.
Stitch-impression machine. F. F. Dorsey. No. 1,047,924; Dec. 24; Gaz. vol. 185; p. 839.
Stitch machine, Impression or imitation. A. Olson. No. 1,040,393; Oct. 8; Gaz. vol. 183; p. 273.
Stitch machines, Feeding mechanism for blind-. L. Onderdonk. No. 1,042,258; Oct. 22; Gaz. vol. 183; p. 973.
Stitches, Forming chain-. C. P. Holmes. No. 1,030,813; June 25; Sp. p. 6275; Gaz. vol. 179; p. 1058.
Stitching-clamp. W. S. Judy. No. 1,031,271; July 2; Gaz. vol. 180; p. 149.
Stitching handkerchiefs or the like, Machine for. M. Adair. No. 1,026,546; May 14; Sp. p. 3188; Gaz. vol. 178; p. 528.
Stitching machine, Buttonhole-. E. B. Allen. No. 1,024,490; Apr. 30; Sp. p. 5854; Gaz. vol. 177; p. 1051.
Stitching-machines, Blank-supporting device for. K. I. Herman. No. 1,045,403; Nov. 26; Gaz. vol. 184; p. 909.
Stitching machines, Cutting mechanism for wire-. H. H. Latham and W. Osterholm. No. 1,026,216; May 14; Sp. p. 2493; Gaz. vol. 178; p. 418.
Stitching machines, Presser-foot for pamphlet-. H. L. Roberts. No. 1,015,077; Jan. 16; Sp. p. 4417; Gaz. vol. 174; p. 743.
Stitching together piece ends, Stripping means for machines for. A. Isherwood. No. 1,049,304; Dec. 31; Gaz. vol. 185; p. 1347.
Stock and die. A. O. Ekorenrud. No. 1,019,234; Mar. 5; Sp. p. 502; Gaz. vol. 176; p. 79.
Stock-boards, Sample-holder attachment for. R. R. Streeter. No. 1,014,420; Jan. 9; Sp. p. 2958; Gaz. vol. 174; p. 491.
Stock or animal release, Automatic. C. A. Benbow. No. 1,027,307; May 21; Sp. p. 4908; Gaz. vol. 178; p. 826.
Stock-quotation board, Electric. M. D. Compton. No. 1,017,740; Feb. 20; Sp. p. 3289; Gaz. vol. 175; p. 588.
Stock-rack. J. G. and F. H. Hibner. No. 1,043,233; Nov. 5; Gaz. vol. 184; p. 67.
Stock-releasing apparatus. G. M. Goodnight. No. 1,015,797; Jan. 30; Sp. p. 5958; Gaz. vol. 174; p. 1042.
Stock-ringer. W. H. Leaver and C. H. Smith. No. 1,023,112; Apr. 9; Sp. p. 2889; Gaz. vol. 177; p. 491.
Stock-supports, Mechanism for actuating. G. A. Ambler. No. 1,026,139; May 14; Sp. p. 2313; Gaz. vol. 178; p. 391.
Stocking. F. E. Munich. No. 1,016,354; Feb. 6; Sp. p. 263; Gaz. vol. 175; p. 41.
Stocking. M. A. Heyde. No. 1,020,822; Mar. 19; Sp. p. 3876; Gaz. vol. 176; p. 677.
Stocking. W. Staton. No. 1,025,328; May 7; Sp. p. 494; Gaz. vol. 178; p. 77.
Stocking. A. N. Presmont. No. 1,025,643; May 7; Sp. p. 1204; Gaz. vol. 178; p. 185.
Stocking. E. W. Decker. No. 1,036,196; Aug. 20; Gaz. vol. 181; p. 678.
Stocking. E. C. Parsons. No. 1,044,567; Nov. 19; Gaz. vol. 184; p. 590.
Stocking and other fabric drier. A. Gee. No. 1,047,039; Dec. 10; Gaz. vol. 185; p. 468.
Stocking-drier. H. Coulston. No. 1,046,983; Dec. 10; Gaz. vol. 185; p. 449.
Stocking-stretching device. I. E. York. No. 1,022,457; Apr. 9; Sp. p. 1498; Gaz. vol. 177; p. 268.
Stocking-turner. A. P. Bamberger and G. Porter. No. 1,039,477; Sept. 24; Gaz. vol. 182; p. 867.
Stoker. W. H. H. Stineman. No. 1,032,164; July 9; Gaz. vol. 180; p. 495.
Stoker. H. E. Stover. No. 1,048,756; Dec. 31; Gaz. vol. 185; p. 1159.
Stoker, Automatic. D. J. Ames. No. 1,018,690; Feb. 27; Sp. p. 5471; Gaz. vol. 175; p. 949.
Stoker, Automatic. W. J. Kenney and H. P. Grohn. No. 1,018,976; Feb. 27; Sp. p. 6086; Gaz. vol. 175; p. 1047.
Stoker, Automatic. G. W. Phillip. No. 1,019,082; Mar. 5; Sp. p. 161; Gaz. vol. 176; p. 27.
Stoker, Automatic. W. J. Kenney. No. 1,035,359; Aug. 13; Gaz. vol. 181; p. 355.
Stoker, Automatic. S. S. Howell. No. 1,037,913; Sept. 10; Gaz. vol. 182; p. 280.
Stoker for locomotives. C. H. Williams. No. 1,043,987; Nov. 12; Gaz. vol. 184; p. 362.
Stoker for locomotives, Automatic. A. J. McMullen. No. 1,017,682; Feb. 20; Sp. p. 3156; Gaz. vol. 175; p. 569.
Stoker-furnace. O. D. and H. M. Cotton. No. 1,018,649; Feb. 27; Sp. p. 5399; Gaz. vol. 175; p. 935.
Stoker, Locomotive-. F. H. Strouse. No. 1,044,939; Nov. 19; Gaz. vol. 184; p. 720.
Stoker, Mechanical. R. F. Stewart. No. 1,014,534; Jan. 9; Sp. p. 3159; Gaz. vol. 174; p. 526.
Stoker, Mechanical. G. B. Rait. No. 1,017,170; Feb. 13; Sp. p. 2094; Gaz. vol. 175; p. 359.
Stoker, Mechanical. A. E. Hofmann. No. 1,019,644; Mar. 5; Sp. p. 1405; Gaz. vol. 176; p. 216.
Stoker, Mechanical. J. P. Davies. No. 1,025,788; May 7; Sp. p. 1485; Gaz. vol. 178; p. 235.
Stoker, Mechanical. H. M. Parson. No. 1,027,149; May 21; Sp. p. 4592; Gaz. vol. 178; p. 772.

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Stoker, Mechanical. H. Parson. No. 1,027,753; May 28; Sp. p. 5805; Gaz. vol. 178; p. 1012.
Stoker, Mechanical. W. M. Duncan. No. 1,031,253; July 2; Gaz. vol. 180; p. 143.
Stoker, Mechanical. W. M. Duncan. No. 1,031,254; July 2; Gaz. vol. 180; p. 144.
Stoker, Mechanical. E. H. Peabody. No. 1,033,192; July 23; Gaz. vol. 180; p. 928.
Stoker, Mechanical. W. Seaton, Jr. No. 1,048,356; Dec. 24; Gaz. vol. 185; p. 982.
Stone and brick layers, Combination pointer and jointer for. A. W. Kline. No. 1,014,650; Jan. 16; Sp. p. 3481; Gaz. vol. 174; p. 597.
Stone-crusher. E. B. Symons. No. 1,016,904; Feb. 6; Sp. p. 1487; Gaz. vol. 175; p. 230.
Stone-crusher and road-roller, Combined traction. E. Hubbard. No. 1,042,230; Oct. 22; Gaz. vol. 183; p. 965.
Stone-crushing machine. E. B. Symons. No. 1,019,997; Mar. 12; Sp. p. 2114; Gaz. vol. 176; p. 364.
Stone crushing or pulverizing machine. R. E. Leighton. No. 1,016,340; Feb. 6; Sp. p. 236; Gaz. vol. 175; p. 36.
Stone-cutter's instrument. G. W. Sherer. No. 1,042,981; Oct. 29; Gaz. vol. 183; p. 1251.
Stone-cutting machine. B. A. Westerling. No. 1,031,756; July 9; Gaz. vol. 180; p. 358.
Stone-cutting saw. J. J. Smith. No. 1,043,475; Nov. 5; Gaz. vol. 184; p. 154.
Stone, Device for making plates of artificial. A. Hermann. No. 1,014,221; Jan. 9; Sp. p. 2504; Gaz. vol. 174; p. 420.
Stone-gathering machine. C. N. Dehlinger. No. 1,042,653; Oct. 29; Gaz. vol. 183; p. 1139.
Stone, Making artificial. M. Hartung. No. 1,042,113; Oct. 22; Gaz. vol. 183; p. 926.
Stone, Manufacture of artificial. A. and W. Gillies. No. 1,038,115; Sept. 10; Gaz. vol. 182; p. 347.
Stone plates, Device for grinding artificial-. F. Florstedt. No. 1,035,552; Aug. 13; Gaz. vol. 181; p. 424.
Stone, Preparing crushed. H. S. Anderson. No. 1,013,100; Jan. 2; Sp. p. 11; Gaz. vol. 174; p. 5.
Stone-saw. W. F. Meyers. No. 1,022,692; Apr. 9; Sp. p. 2003; Gaz. vol. 177; p. 346.
Stone-sawing machine. E. T. Pollard. No. 1,016,440; Feb. 6; Sp. p. 466; Gaz. vol. 175; p. 71.
Stone-sawing machine. E. Eggers. No. 1,017,207; Feb. 13; Sp. p. 2183; Gaz. vol. 175; p. 371.
Stone-sawing machine. W. F. Meyers. No. 1,017,784; Feb. 20; Sp. p. 3435; Gaz. vol. 175; p. 604.
Stone slabs, Preparation of. T. Vogt. No. 1,018,458; Feb. 27; Sp. p. 4923; Gaz. vol. 175; p. 870.
Stone-washing and macadam and concrete mixing apparatus. W. H. Baxter. No. 1,018,404; Feb. 27; Sp. p. 4804; Gaz. vol. 175; p. 851.
Stoneworking-machine. W. F. Meyers. No. 1,027,558; May 28; Sp. p. 5412; Gaz. vol. 178; p. 949.
Stoneworking-machine. R. J. Hamilton. No. 1,035,785; Aug. 13; Gaz. vol. 181; p. 497.
Stool. J. B. Nill. No. 1,016,763; Feb. 6; Sp. p. 1188; Gaz. vol. 175; p. 182.
Stool and table, Combined folding. O. Florian. No. 1,024,192; Apr. 23; Sp. p. 5225; Gaz. vol. 177; p. 916.
Stool, Chair-. F. C. Hall. No. 1,020,902; Mar. 19; Sp. p. 4028; Gaz. vol. 176; p. 703.
Stool, Desk-. E. R. Derry. No. 1,030,876; July 2; Gaz. vol. 180; p. 10.
Stool, Folding. J. R. Moore. No. 1,023,671; Apr. 16; Sp. p. 4058; Gaz. vol. 177; p. 712.
Stool, Folding. A. A. Meeker. No. 1,026,759; May 21; Sp. p. 3671; Gaz. vol. 178; p. 637.
Stool, Milk-. J. C. H. Lyndgaard. No. 1,019,009; Feb. 27; Sp. p. 6167; Gaz. vol. 175; p. 1059.
Stool, Milking-. N. Reiter. No. 1,021,263; Mar. 26; Sp. p. 4797; Gaz. vol. 176; p. 875.
Stool, Milking-. S. Evensen. No. 1,037,225; Sept. 3; Gaz. vol. 182; p. 16.
Stool, Piano-. J. Hegerhorst. No. 1,016,886; Feb. 6; Sp. p. 1432; Gaz. vol. 175; p. 223.
Stool, Piano-. J. H. Dale. No. 1,019,768; Mar. 12; Sp. p. 1653; Gaz. vol. 176; p. 288.
Stop and overload-controller, Automatic. L. Single. No. 1,019,851; Mar. 12; Sp. p. 1800; Gaz. vol. 176; p. 316.
Stop-bar. J. S. Bancroft and M. C. Indahl. No. 1,024,491; Apr. 30; Sp. p. 5880; Gaz. vol. 177; p. 1052.
Stop device, Safety. R. P. Barry and J. W. Murphy. No. 1,039,687; Oct. 1; Gaz. vol. 183; p. 4.
Stop mechanism. R. L. Wilcox. No. 1,023,539; Apr. 16; Sp. p. 3789; Gaz. vol. 177; p. 669.
Stop mechanism. O. Ashton. No. 1,026,067; May 14; Sp. p. 2165; Gaz. vol. 178; p. 365.
Stop mechanism. W. E. E. Milz. No. 1,031,806; July 9; Gaz. vol. 180; p. 375.
Stop-motion. J. L. Jackson. No. 1,046,793; Dec. 10; Gaz. vol. 185; p. 388.
Stop-motion device. W. O. Aldrich. No. 1,047,478; Dec. 17; Gaz. vol. 185; p. 655.
Stop-motion, Duplex. W. O. Aldrich. No. 1,047,479; Dec. 17; Gaz. vol. 185; p. 656.
Stop-motion for planers and the like. C. H. Usher. No. 1,027,575; May 28; Sp. p. 5463; Gaz. vol. 178; p. 955.
Stop-motion to attach to a cotton-card, Automatic. W. W. Crenshaw. No. 1,041,032; Oct. 15; Gaz. vol. 183; p. 525.
Stop-motion, Twister. T. H. Smith. No. 1,033,960; July 30; Gaz. vol. 180; p. 1211.
Stop-motion, Twister. C. Stansfield. No. 1,039,330; Sept. 24; Gaz. vol. 182; p. 816.
Stop-plug-protecting cap. K. E. Cunningham. No. 1,030,390; June 25; Sp. p. 5086; Gaz. vol. 179; p. 906.
Stopper: *See* Boiler-tube leak-stopper; Bottle-stopper; Car-stopper; Leak-stopper; Receptacle-stopper; Screw-stopper; Sink or basin stopper.
Stopper. O. A. Carlsson. No. 1,014,450; Jan. 9; Sp. p. 3017; Gaz. vol. 174; p. 500.
Stopper. H. M. Brown. No. 1,022,060; Apr. 2; Sp. p. 656; Gaz. vol. 177; p. 104.
Stopper. W. H. Redington. No. 1,026,830; May 21; Sp. p. 3823; Gaz. vol. 178; p. 661.
Stopper-applying machine. H. M. Brown. No. 1,034,070; July 30; Gaz. vol. 180; p. 1251.
Stopper-extractor. J. F. Slusser. No. 1,014,529; Jan. 9; Sp. p. 3154; Gaz. vol. 174; p. 525.
Stopper-making machine. H. M. Brown. No. 1,039,643; Sept. 24; Gaz. vol. 182; p. 925.
Stopper-making machine. W. S. Dorman and R. C. Manville. No. 1,039,661; Sept. 24; Gaz. vol. 182; p. 932.
Stoppering or seal-applying machine. H. M. Brown. No. 1,040,615; Oct. 8; Gaz. vol. 183; p. 351.
Storage battery. J. L. Smith. No. 1,021,900; Apr. 2; Sp. p. 316; Gaz. vol. 177; p. 52.
Storage battery. T. A. Edison. No. 1,034,002; July 30; Gaz. vol. 180; p. 1227.
Storage battery. E. Sokal. No. 1,034,156; July 30; Gaz. vol. 180; p. 1280.
Storage battery. E. Sokal. No. 1,034,157; July 30; Gaz. vol. 180; p. 1280.
Storage battery. T. A. Edison. No. 1,036,471; Aug. 20; Gaz. vol. 181; p. 773.
Storage battery, Secondary. O. Oldham. No. 1,043,535; Nov. 5; Gaz. vol. 184; p. 175.
Storage system, Metal-. J. T. Moltrup. No. 1,029,139; June 11; Sp. p. 2323; Gaz. vol. 179; p. 396.
Storage-vessel indicator. O. S. King. No. 1,014,486; Jan. 9; Sp. p. 3073; Gaz. vol. 174; p. 511.
Store-fixture. M. E. Kellogg. No. 1,020,427; Mar. 19; Sp. p. 3009; Gaz. vol. 176; p. 545.
Store-front and show-case construction. W. R. Phillips. No. 1,045,740; Nov. 26; Gaz. vol. 184; p. 1031.
Store-front construction. S. D. Kelley. No. 1,021,871; Apr. 2; Sp. p. 261; Gaz. vol. 177; p. 42.
Store-front construction. V. Ross. No. 1,024,420; Apr. 23; Sp. p. 5695; Gaz. vol. 177; p. 991.
Store-front construction. E. S. Rhoads and V. Ross. No. 1,040,416; Oct. 8; Gaz. vol. 183; p. 280.
Store-service apparatus. C. J. Miller. No. 1,030,318; June 25; Sp. p. 4925; Gaz. vol. 179; p. 879.
Store-service apparatus. E. C. Gipe. No. 1,037,236; Sept. 3; Gaz. vol. 182; p. 20.
Store-service apparatus. E. C. Gipe. No. 1,048,524; Dec. 31; Gaz. vol. 185; p. 1079.
Stove. D. W. Marlow. No. 1,015,330; Jan. 23; Sp. p. 4960; Gaz. vol. 174; p. 856.
Stove. I. Brooke. No. 1,017,241; Feb. 13; Sp. p. 2258; Gaz. vol. 175; p. 384.
Stove. A. O. Girard. No. 1,020,278; Mar. 12; Sp. p. 2706; Gaz. vol. 176; p. 458.
Stove. W. E. Sharp. No. 1,023,968; Apr. 23; Sp. p. 4716; Gaz. vol. 177; p. 837.
Stove. C. H. Wurst. No. 1,027,961; May 28; Sp. p. 6299; Gaz. vol. 178; p. 1082.
Stove. C. H. Wurst. No. 1,035,067; Aug. 6; Gaz. vol. 181; p. 221.
Stove. M. Cullen. No. 1,035,863; Aug. 20; Gaz. vol. 181; p. 562.
Stove. W. Kraus. No. 1,041,306; Oct. 15; Gaz. vol. 183; p. 619.
Stove. L. F. Brecht and N. V. Stamey. No. 1,042,638; Oct. 29; Gaz. vol. 183; p. 1133.
Stove. L. Rugaard. No. 1,042,973; Oct. 29; Gaz. vol. 183; p. 1248.
Stove. A. H. Revell and T. P. Murray. No. 1,043,252; Nov. 5; Gaz. vol. 184; p. 73.
Stove. T. P. Murray. No. 1,043,341; Nov. 5; Gaz. vol. 184; p. 106.
Stove. J. B. Gathright and H. J. Thieman. No. 1,043,587; Nov. 5; Gaz. vol. 184; p. 193.
Stove. H. Lange. No. 1,044,061; Nov. 12; Gaz. vol. 184; p. 387.
Stove. W. F. Pinkerton. No. 1,044,239; Nov. 12; Gaz. vol. 184; p. 448.
Stove. J. H. Witt. No. 1,045,348; Nov. 26; Gaz. vol. 184; p. 891.
Stove. C. H. Whiteman and R. L. Brewton. No. 1,048,116; Dec. 24; Gaz. vol. 185; p. 902.
Stove and furnace. M. E. Alley. No. 1,018,647; Feb. 27; Sp. p. 5396; Gaz. vol. 175; p. 934.
Stove and furnace. F. A. Broussard. No. 1,028,928; June 11; Sp. p. 1878; Gaz. vol. 179; p. 324.
Stove and lamp. H. A. von Post. No. 1,022,048; Apr. 2; Sp. p. 630; Gaz. vol. 177; p. 100.

Alphabetical list of inventions—Continued.

Stove and water-heater, Combined. G. H. Kreunen. No. 1,014,760; Jan. 16; Sp. p. 3712; Gaz. vol. 174; p. 634.
Stove attachment. A. Brochu. No. 1,034,191; July 30; Gaz. vol. 180; p. 1292.
Stove attachment. L. B. Transue. No. 1,036,382; Aug. 20; Gaz. vol. 181; p. 744.
Stove attachment. G. D. Grant. No. 1,044,643; Nov. 19; Gaz. vol. 184; p. 617.
Stove attachment, Gas-. C. P. Ellis and M. P. O'Donohoe. No. 1,044,364; Nov. 12; Gaz. vol. 184; p. 491.
Stove burner, Oil-. A. J. Lindemann. No. 1,041,111; Oct. 15; Gaz. vol. 183; p. 553.
Stove, Combination coal and wood heating-. L. Howard. No. 1,035,589; Aug. 13; Gaz. vol. 181; p. 432.
Stove, Cooking-. M. C. Earnest. No. 1,046,059; Dec. 3; Gaz. vol. 185; p. 89.
Stove, Disk. C. P. Madsen. No. 1,034,810; Aug. 6; Gaz. vol. 181; p. 138.
Stove, Downdraft-. H. E. Atteberry. No. 1,044,724; Nov. 19; Gaz. vol. 184; p. 646.
Stove draft device. J. P. Haller. No. 1,045,786; Nov. 26; Gaz. vol. 184; p. 1046.
Stove-fireback. F. V. Knauss. No. 1,022,630; Apr. 9; Sp. p. 1854; Gaz. vol. 177; p. 324.
Stove for heating air, steam, or other gases, and brick therefor, Hot-blast. F. C. Roberts. No. 1,032,505; July 16; Gaz. vol. 180; p. 655.
Stove, Gas-. F. Sattler. No. 1,013,224; Jan. 2; Sp. p. 300; Gaz. vol. 174; p. 48.
Stove, Gas-. F. Sattler. No. 1,013,318; Jan. 2; Sp. p. 513; Gaz. vol. 174; p. 81.
Stove, Gas-. A. and A. W. Streit. No. 1,014,421; Jan. 9; Sp. p. 2960; Gaz. vol. 174; p. 491.
Stove, Gas-. J. Stubbers. No. 1,015,597; Jan. 23; Sp. p. 5536; Gaz. vol. 174; p. 948.
Stove, Gas-. M. Lachner. No. 1,024,585; Apr. 30; Sp. p. 6127; Gaz. vol. 177; p. 1084.
Stove, Gas-. L. Lebovitz. No. 1,030,000; June 18; Sp. p. 4207; Gaz. vol. 179; p. 729.
Stove, Gas-. C. W. Williams. No. 1,038,253; Sept. 10; Gaz. vol. 182; p. 394.
Stove, Gas-. G. B. Carter. No. 1,038,849; Sept. 17; Gaz. vol. 182; p. 636.
Stove-grate. D. Johnson. No. 1,042,685; Oct. 29; Gaz. vol. 183; p. 1149.
Stove, Heating-. E. J. Parker. No. 1,015,973; Jan. 30; Sp. p. 6333; Gaz. vol. 174; p. 1102.
Stove, Heating-. G. L. Menk. No. 1,019,172; Mar. 5; Sp. p. 373; Gaz. vol. 176; p. 58.
Stove, Heating-. J. Schwab. No. 1,027,671; May 28; Sp. p. 5656; Gaz. vol. 178; p. 985.
Stove, Hot-blast. W. Mathesius. No. 1,018,331; Feb. 20; Sp. p. 4625; Gaz. vol. 175; p. 794.
Stove, Hydrocarbon-. E. B. Baker. No. 1,024,053; Apr. 23; Sp. p. 4895; Gaz. vol. 177; p. 867.
Stove, including washing boiler or kettle, Portable camp-. T. R. and M. Stockton. No. 1,040,451; Oct. 8; Gaz. vol. 183; p. 292.
Stove-leg. Supplemental adjustable. J. W. Salisbury. No. 1,036,726; Aug. 27; Gaz. vol. 181; p. 892.
Stove-lid lifter. E. Tower. No. 1,014,788; Jan. 16; Sp. p. 3785; Gaz. vol. 174; p. 643.
Stove lighter, Gas-. T. L. Wiese. No. 1,039,465; Sept. 24; Gaz. vol. 182; p. 863.
Stove, Mold-drying. P. Mongen. No. 1,027,210; May 21; Sp. p. 4713; Gaz. vol. 178; p. 791.
Stove, Oil-. L. F. Betts. No. 1,019,123; Mar. 5; Sp. p. 258; Gaz. vol. 176; p. 40.
Stove or furnace joint. A. K. Beckwith. No. 1,035,144; Aug. 13; Gaz. vol. 181; p. 277.
Stove or heating device. C. P. Shinn. No. 1,046,228; Dec. 3; Gaz. vol. 185; p. 150.
Stove or oven, Drying or baking. H. W. Turner. No. 1,045,915; Dec. 3; Gaz. vol. 185; p. 41.
Stove or range, Combined cooking and heating. J. C. Gallagher and H. P. Garvey. No. 1,016,261; Feb. 6; Sp. p. 37; Gaz. vol. 175; p. 8.
Stove or range, Cook. C. M. Genthner. No. 1,039,511; Sept. 24; Gaz. vol. 182; p. 880.
Stove or range, Cooking. J. Erben. No. 1,017,043; Feb. 13; Sp. p. 1808; Gaz. vol. 175; p. 314.
Stove-polishing mitten. N. M. Springhorn. No. 1,046,230; Dec. 3; Gaz. vol. 185; p. 150.
Stove, Portable. J. M. Roe. No. 1,042,273; Oct. 22; Gaz. vol. 183; p. 977.
Stove-rim-polishing machine. G. L. Wallace and W. V. Steiger. No. 1,042,509; Oct. 29; Gaz. vol. 183; p. 1088.
Stove, Storage-. W. Stanley. No. 1,025,843; May 7; Sp. p. 1600; Gaz. vol. 178; p. 254.
Stove structure. E. V. Coulston. No. 1,032,816; July 16; Gaz. vol. 180; p. 763.
Stove-top. S. T. Willson. No. 1,032,575; July 16; Gaz. vol. 180; p. 679.
Stove ventilating attachment. Cooking-. A. J. Veilleux. No. 1,035,276; Aug. 13; Gaz. vol. 181; p. 324.
Stoves, Air-heating attachment for. P. G. Pertholf. No. 1,023,193; Apr. 16; Sp. p. 3118; Gaz. vol. 177; p. 558.
Stoves, Air-heating device for. G. von Daam. No. 1,027,944; May 28; Sp. p. 6269; Gaz. vol. 178; p. 1077.
Stoves and furnaces, Oven for cooking-. W. A. Scott. No. 1,043,632; Nov. 5; Gaz. vol. 184; p. 208.
Stoves, Ash-chute for. R. H. Babbitt, Jr. No. 1,045,359; Nov. 26; Gaz. vol. 184; p. 895.
Stoves, Ash device for. D. I. Bernotowicz. No. 1,039,352; Sept. 24; Gaz. vol. 182; p. 823.
Stoves, Automatic cut-off for gas-. L. W. Freeman. No. 1,048,676; Dec. 31; Gaz. vol. 185; p. 1132.
Stoves, Automatic cut-off valve for gas-. J. S. Vollmer. No. 1,032,972; July 16; Gaz. vol. 180; p. 813.
Stoves. Device for fuel-saving. C. W. Hugy. No. 1,034,799; Aug. 6; Gaz. vol. 181; p. 134.
Stoves, Oil-burner attachment for. I. L. Mitchell. No. 1,018,257; Feb. 20; Sp. p. 4487; Gaz. vol. 175; p. 770.
Stoves, Pilot-burner for gas-. A. C. Mott, Jr. No. 1,037,037; Aug. 27; Gaz. vol. 181; p. 996.
Stoves, Safety stand-pipe for gasolene-. G. H. Burgess. No. 1,015,779; Jan. 30; Sp. p. 5923; Gaz. vol. 174; p. 1036.
Stoves, Valve-guard for. M. A. Krug. No. 1,021,198; Mar. 26; Sp. p. 4651; Gaz. vol. 176; p. 853.
Stovepipe. B. F. Hayden. No. 1,045,400; Nov. 26; Gaz. vol. 184; p. 908.
Stovepipe-anchor. N. Roller. No. 1,031,378; July 2; Gaz. vol. 180; p. 185.
Stovepipe and collar holder. F. S. Divan. No. 1,040,171; Oct. 1; Gaz. vol. 183; p. 168.
Stovepipe attachment. C. D. Pearce. No. 1,039,587; Sept. 24; Gaz. vol. 182; p. 907.
Stovepipe attachment. J. H. Allen. No. 1,042,185; Oct. 22; Gaz. vol. 183; p. 948.
Stovepipe-fastener. J. F. McIlvaine. No. 1,016,426; Feb. 6; Sp. p. 415; Gaz. vol. 175; p. 66.
Stovepipe-hood. W. J. Kenely. No. 1,047,951; Dec. 24; Gaz. vol. 185; p. 848.
Stovepipe-joint. W. D. Fitzpatrick. No. 1,021,092; Mar. 26; Sp. p. 4427; Gaz. vol. 176; p. 820.
Stovepipe-joint. E. Hammond. No. 1,038,357; Sept. 10; Gaz. vol. 182; p. 428.
Stovepipe-joint, Adjustable. W. F. Harris. No. 1,041,467; Oct. 15; Gaz. vol. 183; p. 671.
Stovepipe-lock. C. F. Collier. No. 1,015,542; Jan. 23; Sp. p. 5405; Gaz. vol. 174; p. 926.
Stovepipe-lock. G. E. Kemp. No. 1,043,773; Nov. 5; Gaz. vol. 184; p. 255.
Stovepipe-retainer. W. H. Pleasants. No. 1,032,859; July 16; Gaz. vol. 180; p. 777.
Stovepipe-ventilator. J. W. Williams. No. 1,020,590; Mar 19; Sp. p. 3368; Gaz. vol. 176; p. 599.
Straight-edge guide. A. B. Darbyson. No. 1,043,905; Nov. 12; Gaz. vol. 184; p. 332.
Straightening apparatus. A. W. Machlet. No. 1,045,161; Nov. 26; Gaz. vol. 184; p. 825.
Straightening-machine. L. H. Brightman. No. 1,017,645; Feb. 20; Sp. p. 3085; Gaz. vol. 175; p. 558.
Straightening-press. J. Johnson. No. 1,032,218; July 9; Gaz. vol. 180; p. 513.
Strain gage or apparatus for the measurement of the deformations of materials under strain. H. C. Berry. No. 1,047,371; Dec. 17; Gaz. vol. 185; p. 618.
Strainer. A. L. Comtois. No. 1,016,249; Feb. 6; Sp. p. 7; Gaz. vol. 175; p. 4.
Strainer. W. S. Elliott. No. 1,018,654; Feb. 27; Sp. p. 5406; Gaz. vol. 175; p. 936.
Strainer. W. E. Akers. No. 1,020,869; Mar. 19; Sp. p. 3976; Gaz. vol. 176; p. 692.
Strainer. M. T. Molloy. No. 1,027,623; May 28; Sp. p. 5539; Gaz. vol. 178; p. 969.
Strainer. A. T. Holton. No. 1,028,114; June 4; Sp. p. 41; Gaz. vol. 179; p. 11.
Strainer. W. H. Thoma. No. 1,046,679; Dec. 10; Gaz. vol. 185; p. 346.
Strainer. W. H. Ketcham. No. 1,048,546; Dec. 31; Gaz. vol. 185; p. 1086.
Strainer and egg-holder, Combination. J. G. Shepard. No. 1,027,079; May 21; Sp. p. 4445; Gaz. vol. 178; p. 750.
Strainer and funnel, Combined. W. E. Smith. No. 1,046,881; Dec. 10; Gaz. vol. 185; p. 416.
Strainer and support therefor, Milk-. H. J. Ebner. No. 1,015,946; Jan. 30; Sp. p. 6278; Gaz. vol. 174; p. 1093.
Strainer-cleaner. O. C. Smith. No. 1,033,745; July 23; Gaz. vol. 180; p. 1108.
Strainer, Coffee-. A. B. Evans. No. 1,040,179; Oct. 1; Gaz. vol. 183; p. 170.
Strainer, Coffee-pot. G. O. Tucker. No. 1,048,766; Dec. 31; Gaz. vol. 185; p. 1162.
Strainer, Dripless tea-. E. F. King. No. 1,019,967; Mar. 12; Sp. p. 2049; Gaz. vol. 176; p. 354.
Strainer for down-spouts, Catch-. L. Thiem. No. 1,044,601; Nov. 19; Gaz. vol. 184; p. 604.
Strainer for milk-cans. H. Nelson. No. 1,041,331; Oct. 15; Gaz. vol. 183; p. 627.
Strainer for milk or other liquids. K. W. Heyman. No. 1,035,790; Aug. 13; Gaz. vol. 181; p. 498.
Strainer, Fuel-oil. K. M. Dahl. No. 1,042,203; Oct. 22; Gaz. vol. 183; p. 954.
Strainer, Garbage-. H. E. Horner. No. 1,021,150; Mar. 26; Sp. p. 4543; Gaz. vol. 176; p. [illegible]
Strainer, Gasolene-. C. A. [illegible]. No. 1,048,828; Dec. 31; Gaz. vol. 185; p. 1185.
Strainer, Milk-. C. M. Cuppel. No. 1,017,083; Feb. 13; Sp. p. 1917; Gaz. vol. 175; p. 329.

Strainer, Milk-. E. O. Garrow. No. 1,019,954; Mar. 12; Sp. p. 2027; Gaz. vol. 176; p. 350.
Strainer, Milk-. A. F. Laity. No. 1,023,664; Apr. 16; Sp. p. 4045; Gaz. vol. 177; p. 709.
Strainer, Milk-. R. L. Lynch. No. 1,032,917; July 16; Gaz. vol. 180; p. 796.
Strainer, Milk-. F. O. P. Shutt and E. C. Dukeman. No. 1,036,354; Aug. 20; Gaz. vol. 181; p. 734.
Strainer, Sink-. C. A. Pierce. No. 1,035,733; Aug. 13; Gaz. vol. 181; p. 480.
Strainer, Steam-. G. W. Collin. No. 1,033,544; July 23; Gaz. vol. 180; p. 1044.
Strainer, Tea and coffee pot. W. H. Holder. No. 1,039,742; Oct. 1; Gaz. vol. 183; p. 24.
Straining apparatus, Liquid-. F. Bailey and F. H. Jackson. No. 1,038,066; Sept. 10; Gaz. vol. 182; p. 332.
Straining appliance. F. T. Page. No. 1,024,523; Apr. 30; Sp. p. 5972; Gaz. vol. 177; p. 1063.
Straining device. F. E. Coombs. No. 1,018,166; Feb. 20; Sp. p. 4306; Gaz. vol. 175; p. 739.
Straining-hook. A. G. Soistmann. No. 1,039,834; Oct. 1; Gaz. vol. 183; p. 55.
Stranding-machine. G. E. Bigelow. No. 1,043,896; Nov. 12; Gaz. vol. 184; p. 330.
Stranding-machine. G. E. Bigelow. No. 1,043,898; Nov. 12; Gaz. vol. 184; p. 330.
Strangler. A. J. Stoll. No. 1,035,059; Aug. 6; Gaz. vol. 181; p. 218.
Strap: *See* Automobile stay-strap; Deckle-strap; Fob-strap; Hitching-strap; Jock-strap; Pole-strap; Pull-strap; Shoe back-strap; Shoe pull-strap; Trunk-strap.
Strap and drinking-cup holder, Combined. R. Lublintz. No. 1,026,960; May 21; Sp. p. 4156; Gaz. vol. 178; p. 709.
Strap connector, Cross-. C. I. Miller. No. 1,019,820; Mar. 12; Sp. p. 1742; Gaz. vol. 176; p. 305.
Strap dispenser, Plural-. L. S. Howe. No. 1,038,369; Sept. 10; Gaz. vol. 182; p. 432.
Strap-forming machine. A. F. Kessler. No. 1,014,065; Jan. 9; Sp. p. 2184; Gaz. vol. 174; p. 365.
Strap-loop for bags, &c. S. Flaxbaum. No. 1,030,069; June 18; Sp. p. 4369; Gaz. vol. 179; p. 753.
Strap-retaining attachment. A. Wennerstrom. No. 1,037,381; Sept. 3; Gaz. vol. 182; p. 69.
Straps. Machine for bending lug-. G. F. Ivey. No. 1,042,921; Oct. 29; Gaz. vol. 183; p. 1231.
Straw and tobacco cutters, Feeder for. M. Larsson. No. 1,029,759; June 18; Sp. p. 3671; Gaz. vol. 179; p. 647.
Straw-dispenser. H. L. Beach. No. 1,021,232; Mar. 26; Sp. p. 4734; Gaz. vol. 176; p. 865.
Straw, dried grasses, or the like for the production of articles of commerce, Treatment of. L. Carré. No. 1,014,566; Jan. 9; Sp. p. 3217; Gaz. vol. 174; p. 536.
Straw elevator and stacker. A. Rosenthal. No. 1,030,015; June 18; Sp. p. 4234; Gaz. vol. 179; p. 734.
Straw-holder. W. J. Eisenhardt. No. 1,014,866; Jan. 16; Sp. p. 3972; Gaz. vol. 174; p. 672.
Straw-press with automatic bundle-measurer and needle-controller. M. O. Madsen. No. 1,027,868; May 28; Sp. p. 6129; Gaz. vol. 178; p. 1052.
Straw-spreader. J. H. Mott. No. 1,037,038; Aug. 27; Gaz. vol. 181; p. 996.
Straw, Utilizing Indian-corn. B. Dorner. No. 1,038,730; Sept 17; Gaz. vol. 182; p. 594.
Stream-dividing apparatus. J. L. Ferguson. No. 1,021,766; Apr. 2; Sp. p. 22; Gaz. vol. 177; p. 7.
Streams, Mechanism for use in connection with flowing. E. S. Cole. No. 1,041,432; Oct. 15; Gaz. vol. 183; p. 660.
Street and railway track structure. A. Ostheimer. No. 1,036,891; Aug. 27; Gaz. vol. 181; p. 946.
Street and station indicator. J. R. Tucker. No. 1,024,044; Apr. 23; Sp. p. 4873; Gaz. vol. 177; p. 864.
Street and station indicator. A. L. Breton. No. 1,025,560; May 7; Sp. p. 1022; Gaz. vol. 178; p. 158.
Street and station indicator. H. C. Shipman. No. 1,032,785; July 16; Gaz. vol. 180; p. 752.
Street-cleaner. C. D. Fahrney. No. 1,033,164; July 23; Gaz. vol. 180; p. 917.
Street-cleaner. J. B. Gravelle. No. 1,045,392; Nov. 26; Gaz. vol. 184; p. 905.
Street-cleaning machine. R. C. Menzies. No. 1,014,165; Jan. 9; Sp. p. 2386; Gaz. vol. 174; p. 399.
Street-cleaning machine. L. H. Roby. No. 1,015,637; Jan. 23; Sp. p. 5622; Gaz. vol. 174; p. 962.
Street-cleaning machine. M. B. Huson. No. 1,026,445; May 14; Sp. p. 2999; Gaz. vol. 178; p. 495.
Street-indicator. W. C. Bridges. No. 1,018,693; Feb. 27; Sp. p. 5476; Gaz. vol. 175; p. 950.
Street-indicator. C. H. Vickery. No. 1,030,355; June 25; Sp. p. 5008; Gaz. vol. 179; p. 893.
Street-indicator. L. B. Anderson. No. 1,045,494; Nov. 26; Gaz. vol. 184; p. 943.
Street-indicator-operating device. P. T. Spindler. No. 1,029,770; June 18; Sp. p. 3693; Gaz. vol. 179; p. 651.
Street or station indicator. D. S. Wischart. No. 1,039,626; Sept. 24; Gaz. vol. 182; p. 920.
Street or station indicator. R. E. Hornbeck. No. 1,039,746; Oct. 1; Gaz. vol. 183; p. 26.
Street-service box for water and gas. W. M. Rapp. No. 1,032,503; July 16; Gaz. vol. 180; p. 655.
Street-sprinkler oiling attachment. R. E. Carlton and S. Y. Culley. No. 1,032,879; July 16; Gaz. vol. 180; p. 783.
Street-sweeper. W. L. Kellogg. No. 1,035,598; Aug. 13; Gaz. vol. 181; p. 435.
Street-sweeper. J. D. Curtis. No. 1,036,804; Aug. 27; Gaz. vol. 181; p. 918.
Street-sweeper. S. S. Case. No. 1,042,532; Oct. 29; Gaz. vol. 183; p. 1095.
Street-sweeper. M. Goldstein. No. 1,047,403; Dec. 17; Gaz. vol. 185; p. 628.
Street-sweepers, Dust-collecting tank for. E. S. Estlin. No. 1,030,773; June 25; Sp. p. 6145; Gaz. vol. 179; p. 1042.
Street-sweeping machine. B. J. Nolan and J. Pharand. No. 1,043,533; Nov. 5; Gaz. vol. 184; p. 175.
Strength-testing apparatus. J. O. Stanley and J. L. Perkins. No. 1,021,012; Mar. 26; Sp. p. 4265; Gaz. vol. 176; p. 792.
Stretcher. J. Levy-Maurice and R. F. A. Poyart. No. 1,016,835; Feb. 6; Sp. p. 1332; Gaz. vol. 175; p. 205.
Stretcher-rolls. J. P. Hedstrom. No. 1,038,127; Sept. 10; Gaz. vol. 182; p. 350.
Stretching device. E. Burks. No. 1,039,022; Sept. 17; Gaz. vol. 182; p. 692.
Stretching-frame. F. R. Miller. No. 1,021,619; Mar. 26; Sp. p. 5558; Gaz. vol. 176; p. 998.
Stretching implement. C. Grenier. No. 1,037,615; Sept. 3; Gaz. vol. 182; p. 146.
Striking-plate and carry-iron. C. T. Westlake. No. 1,043,180; Nov. 5; Gaz. vol. 184; p. 48.
String-box. H. Auton. No. 1,033,296; July 23; Gaz. vol. 180; p. 964.
String-holder. A. Walker. No. 1,034,939; Aug. 6; Gaz. vol. 181; p. 180.
Stringed instruments, Exercising device for. D. E. Hartnett. No. 1,047,217; Dec. 17; Gaz. vol. 185; p. 562.
Stringed instruments, Finger-support for. W. H. S. Nelson. No. 1,017,448; Feb. 13; Sp. p. 2713; Gaz. vol. 175; p. 456.
Strip-feeding device. O. Oehring. No. 1,023,165; Apr. 16; Sp. p. 3056; Gaz. vol. 177; p. 547.
Strip-feeding mechanism. W. H. Bazley. No. 1,019,295; Mar. 5; Sp. p. 644; Gaz. vol. 176; p. 101.
Stropping device. J. A. Harrington. No. 1,024,074; Apr. 23; Sp. p. 4935; Gaz. vol. 177; p. 874.
Stropping device. T. J. Williams. No. 1,027,955; May 28; Sp. p. 6286; Gaz. vol. 178; p. 1080.
Stropping-machine. R. M. Watson. No. 1,024,659; Apr. 30; Sp. p. 6299; Gaz. vol. 177; p. 1110.
Stropping-machine. J. Kaufman. No. 1,025,572; May 7; Sp. p. 1049; Gaz. vol. 178; p. 162.
Stropping-machine. C. E. Dunn. No. 1,047,393; Dec. 17; Gaz. vol. 185; p. 624.
Structural elements, Making. W. M. Janpole. No. 1,024,687; Apr. 30; Sp. p. 6362; Gaz. vol. 177; p. 1121.
Structural material, Bituminous. H. R. Wardell. No. 1,015,919; Jan. 30; Sp. p. 6218; Gaz. vol. 174; p. 1084.
Structural material, Manufacture of. C. E. Duncan and J. Fawell. No. 1,021,137; Mar. 26; Sp. p. 4519; Gaz. vol. 176; p. 833.
Structural member. J. Kahn. No. 1,033,414; July 23; Gaz. vol. 180; p. 1002.
Structural member. J. W. Ripley. No. 1,046,858; Dec. 10; Gaz. vol. 185; p. 408.
Strut. A. F. W. Macmanus. No. 1,042,808; Oct. 29; Gaz. vol. 183; p. 1192.
Strut. R. Anderson. No. 1,043,893; Nov. 12; Gaz. vol. 184; p. 329.
Stubble-shaver. R. A. Roussel. No. 1,025,161; May 7; Sp. p. 106; Gaz. vol. 178; p. 19.
Stud. J. A. Buffington. No. 1,048,292; Dec. 24; Gaz. vol. 185; p. 960.
Stud-and-socket fastener. F. S. Carr. No. 1,038,288; Sept. 10; Gaz. vol. 182; p. 406.
Stud-and-socket fastener. F. S. Carr. No. 1,048,654; Dec. 31; Gaz. vol. 185; p. 1123.
Stud for snap-fasteners, Screw-. E. D. Simons. No. 1,048,902; Dec. 31; Gaz. vol. 185; p. 1210.
Stud for snap-fasteners, Screw-. A. Sordi. No. 1,048,904; Dec. 31; Gaz. vol. 185; p. 1210.
Stud for use in building construction. D. Dowd. No. 1,037,738; Sept. 3; Gaz. vol. 182; p. 188.
Stud-protector. M. J. Silverman. No. 1,040,444; Oct. 8; Gaz. vol. 183; p. 289.
Studding for plaster-boards or the like. H. H. Burson. No. 1,013,738; Jan. 2; Sp. p. 1436; Gaz. vol. 174; p. 225.
Stuffing-box. D. E. Norris. No. 1,015,582; Jan. 23; Sp. p. 5506; Gaz. vol. 174; p. 941.
Stuffing-box. E. C. Kahle. No. 1,015,685; Jan. 23; Sp. p. 5738; Gaz. vol. 174; p. 977.
Stuffing-box. G. W. Mason and F. Hammond. No. 1,028,758; June 4; Sp. p. 1489; Gaz. vol. 179; p. 231.
Stuffing-box. W. Smith. No. 1,029,474; June 11; Sp. p. 3056; Gaz. vol. 179; p. 512.
Stuffing-box. W. De Huff. No. 1,032,995; July 16; Gaz. vol. 180; p. 821.
Stuffing-box and shaft-bearing, Combined. J. O. Schmitt. No. 1,025,884; May 7; Sp. p. 1738; Gaz. vol. 178; p. 268.
Stuffing-box, Double packing. U. A. Haaser. No. 1,015,884; Jan. 30; Sp. p. 6150; Gaz. vol. 174; p. 1071.

Alphabetical list of inventions—Continued.

Stuffing-boxes, Actuating mechanism for glands for. E. J. Fithian and H. D. Murray. No. 1,048,142; Dec. 24; Gaz. vol. 185; p. 912.
Stump-burner. W. L. Read. No. 1,031,372; July 2; Gaz. vol. 180; p. 183.
Stump-burner. V. H. Pickens. No. 1,040,402; Oct. 8; Gaz. vol. 183; p. 275.
Stump-burning appliance. J. Smith and H. C. Pigott. No. 1,046,031; Dec. 3; Gaz. vol. 185; p. 80.
Stump-puller. E. C. Ellison. No. 1,021,922; Apr. 2; Sp. p. 356; Gaz. vol. 177; p. 59.
Stump-puller. W. H. Parker. No. 1,034,642; Aug. 6; Gaz. vol. 181; p. 79.
Stump-puller. J. A. Gallagher. No. 1,043,919; Nov. 12; Gaz. vol. 184; p. 338.
Stump-puller, Hydraulic. A. H. Prestbye. No. 1,029,510; June 11; Sp. p. 3122; Gaz. vol. 179; p. 524.
Stump pulling and hoisting apparatus, Self-anchoring. A. M. Semran and K. S. Forbes. No. 1,027,286; May 21; Sp. p. 4864; Gaz. vol. 178; p. 819.
Stump-pulling apparatus. L. M. Gardiner. No. 1,018,970; Feb. 27; Sp. p. 6073; Gaz. vol. 175; p. 1045.
Stump splitting and removing machine. A. S. Hunter, Sr. No. 1,032,481; July 16; Gaz. vol. 180; p. 648.
Stumps, Destroying. W. E. White. No. 1,024,540; Apr. 30; Sp. p. 6018; Gaz. vol. 177; p. 1070.
Stylus. O. D. Killebrew. No. 1,028,029; May 28; Sp. p. 6434; Gaz. vol. 178; p. 1104.
Subirrigation system. W. N. Robison. No. 1,015,401; Jan. 23; Sp. p. 5100; Gaz. vol. 174; p. 879.
Submarine illuminating apparatus. P. J. Byrne. No. 1,030,052; June 18; Sp. p. 4339; Gaz. vol. 179; p. 748.
Submarine operating apparatus. C. Williamson. No. 1,023,541; Apr. 16; Sp. p. 3796; Gaz. vol. 177; p. 670.
Submarine rescuing apparatus. S. Roth. No. 1,026,458; May 14; Sp. p. 3022; Gaz. vol. 178; p. 498.
Subsoil attachment, Adjustable. W. I. Prater. No. 1,028,274; June 4; Sp. p. 460; Gaz. vol. 179; p. 67.
Subsoil-breaking attachment. A. Kenworthy. No. 1,031,343; July 2; Gaz. vol. 180; p. 174.
Subterranean strata, Locating. H. Löwy. No. 1,045,575; Nov. 26; Gaz. vol. 184; p. 972.
Subways, Constructing. E. R. Shnable. No. 1,032,952; July 16; Gaz. vol. 180; p. 806.
Sucker-rod elevator. S. A. Guiberson, Jr. No. 1,017,869; Feb. 20; Sp. p. 3631; Gaz. vol. 175; p. 634.
Sucker-rod elevator. H. Viger. No. 1,018,732; Feb. 27; Sp. p. 5564; Gaz. vol. 175; p. 963.
Sucker-rod elevator. W. O'Neil, E. J. Schneider, and T. N. Kellett. No. 1,024,017; Apr. 23; Sp. p. 4807; Gaz. vol. 177; p. 854.
Suction apparatus. L. Isaacs. No. 1,031,005; July 2; Gaz. vol. 180; p. 54.
Suction-cleaner. J. G. Walker. No. 1,017,275; Feb. 13; Sp. p. 2323; Gaz. vol. 175; p. 395.
Suction-cleaner. F. A. English. No. 1,033,563; July 23; Gaz. vol. 180; p. 1051.
Suction device for dust-laden air. K. Spitzer. No. 1,019,548; Mar. 5; Sp. p. 1227; Gaz. vol. 176; p. 183.
Suction-distributer for ginning plants, Automatic. B. Reed. No. 1,044,418; Nov. 12; Gaz. vol. 184; p. 509.
Sugar and by-products from sugar-cane, Making. G. W. and G. B. McMullen. No. 1,040,560; Oct. 8; Gaz. vol. 183; p. 331.
Sugar and making same, Maple-flavored. T. G. Hogan. No. 1,037,766; Sept. 3; Gaz. vol. 182; p. 197.
Sugar-bin. C. L. Kinney. No. 1,033,907; July 30; Gaz. vol. 180; p. 1192.
Sugar-can. R. E. Elliott and G. W. Cook, Jr. No. 1,029,431; June 11; Sp. p. 2973; Gaz. vol. 179; p. 497.
Sugar-cane into its two chief structural parts, Separating. G. B. McMullen. No. 1,040,559; Oct. 8; Gaz. vol. 183; p. 330.
Sugar-cane, Treating. J. H. Roberts. No. 1,040,562; Oct. 8; Gaz. vol. 183; p. 331.
Sugar-centrifugal scraper. R. H. Moore. No. 1,042,710; Oct. 29; Gaz. vol. 183; p. 1158.
Sugar-crystallizer. F. Lafeuille. No. 1,016,019; Jan. 30; Sp. p. 6431; Gaz. vol. 174; p. 1119.
Sugar, &c., Delivery device for. J. Grimes. No. 1,017,210; Feb. 13; Sp. p. 2189; Gaz. vol. 175; p. 373.
Sugar-drier. W. H. Hannam and W. E. Murray. No. 1,019,958; Mar. 12; Sp. p. 2035; Gaz. vol. 176; p. 352.
Sugar-drying apparatus. W. H. Hannam and W. E. Murray. No. 1,024,073; Apr. 23; Sp. p. 4933; Gaz. vol. 177; p. 874.
Sugar-drying machine. W. H. Hannam and W. E. Murray. No. 1,019,959; Mar. 12; Sp. p. 2037; Gaz. vol. 176; p. 352.
Sugar from lignocellulose, Producing fermentable. M. F. Ewen and G. H. Tomlinson. No. 1,032,392; July 16; Gaz. vol. 180; p. 618.
Sugar-juices, Crystallizing. P. Kestner and P. Legrange. No. 1,031,559; July 2; Gaz. vol. 180; p. 247.
Sugar-juices, Extracting. C. Steffen. No. 1,015,650; Jan. 23; Sp. p. 5652; Gaz. vol. 174; p. 966.
Sugar-making product. G. W. McMullen. No. 1,040,561; Oct. 8; Gaz. vol. 183; p. 331.
Sugar-manufacturing apparatus. M. G. Wild. No. 1,034,176; July 30; Gaz. vol. 180; p. 1287.
Sugar, Manufacturing beet-. V. Kolarik. No. 1,047,082; Dec. 10; Gaz. vol. 185; p. 482.
Sugar-mill. J. I. Boyer. No. 1,044,127; Nov. 12; Gaz. vol. 184; p. 409.
Sugar process. R. E. Pospisil. No. 1,028,272; June 4; Sp. p. 458; Gaz. vol. 179; p. 67.
Sugar-producing product. G. B. McMullen. No. 1,040,557; Oct. 8; Gaz. vol. 183; p. 330.
Sugar-producing product. G. B. McMullen. No. 1,040,558; Oct. 8; Gaz. vol. 183; p. 330.
Sugar, Purifying. J. Ost. No. 1,020,219; Mar. 12; Sp. p. 2590; Gaz. vol. 176; p. 440.
Sugar, Recovery of cane-. E. E. Battelle. No. 1,044,003; Nov. 12; Gaz. vol. 184; p. 368.
Sugar, Recovery of cane-. E. E. Battelle. No. 1,044,004; Nov. 12; Gaz. vol. 184; p. 368.
Sugar, Refining. H. Wiese. No. 1,021,173; Mar. 26; Sp. p. 4606; Gaz. vol. 176; p. 845.
Sugar-separator tip. E. Roberts and A. H. Gibson. No. 1,015,510; Jan. 23; Sp. p. 5340; Gaz. vol. 174; p. 916.
Sugars from cellulosic materials, Producing fermentable. G. H. Tomlinson. No. 1,032,448; July 16; Gaz. vol. 180; p. 636.
Sugars from lignocellulose, Producing fermentable. G. H. Tomlinson. No. 1,032,440; July 16; Gaz. vol. 180; p. 634.
Sugars, Producing fermentable. G. H. Tomlinson. No. 1,032,450; July 16; Gaz. vol. 180; p. 637.
Sugars, Producing fermentable. F. E. Gallagher. No. 1,033,064; July 16; Gaz. vol. 180; p. 846.
Sugars, Producing fermentable. F. E. Gallagher and H. S. Mork. No. 1,037,185; Aug. 27; Gaz. vol. 181; p. 1045.
Suit and hat box, Collapsible. H. B. Walter. No. 1,025,037; Apr. 30; Sp. p. 7068; Gaz. vol. 177; p. 1242.
Suit-case. B. F. Becker. No. 1,023,238; Apr. 16; Sp. p. 3198; Gaz. vol. 177; p. 572.
Suit-case. M. Brandon. No. 1,048,934; Dec. 31; Gaz. vol. 185; p. 1221.
Suit-case box. G. L. Morrison and A. A. Fordon. No. 1,046,398; Dec. 3; Gaz. vol. 185; p. 210.
Suit-case-bracing device. L. Spiro. No. 1,019,547; Mar. 5; Sp. p. 1226; Gaz. vol. 176; p. 183.
Suit-case handle. C. E. Riley. No. 1,029,634; June 18; Sp. p. 3387; Gaz. vol. 179; p. 603.
Suit-case lock. J. J. Murphy. No. 1,028,482; June 4; Sp. p. 930; Gaz. vol. 179; p. 139.
Suit-hanger, Collapsible. J. W. Hamilton. No. 1,040,668; Oct. 8; Gaz. vol. 183; p. 372.
Suit, Union. K. H. White. No. 1,045,921; Dec. 3; Gaz. vol. 185; p. 43.
Sulfate liquors, Treating waste ferrous. J. McFetridge. No. 1,045,723; Nov. 26; Gaz. vol. 184; p. 1025.
Sulfates, Reduction of. V. Bollo and E. Cadenaccio. No. 1,045,769; Nov. 26; Gaz. vol. 184; p. 1040.
Sulfid ores, Separation of metallic sulfids from. T. J. Greenway. No. 1,045,970; Dec. 3; Gaz. vol. 185; p. 60.
Sulfite liquor, Concentration of waste. C. Ellis. No. 1,042,538; Oct. 29; Gaz. vol. 183; p. 1098.
Sulfite liquor, Treating waste. W. H. Dickerson. No. 1,043,303; Nov. 5; Gaz. vol. 184; p. 92.
Sulfur and producing same, Suspensible. H. W. Hillyer. No. 1,048,161; Dec. 24; Gaz. vol. 185; p. 918.
Sulfur-burner. G. E. Miller. No. 1,018,255; Feb. 20; Sp. p. 4484; Gaz. vol. 175; p. 769.
Sulfur-burner. E. Rossiter. No. 1,038,442; Sept. 10; Gaz. vol. 182; p. 460.
Sulfur-burner, Automatic. G. W. Fortier. No. 1,044,369; Nov. 12; Gaz. vol. 184; p. 493.
Sulfur derivatives derived from glycerin, Producing. L. Lilienfeld. No. 1,018,329; Feb. 20; Sp. p. 4622; Gaz. vol. 175; p. 794.
Sulfur dioxid, Producing. E. Rossiter. No. 1,039,812; Oct. 1; Gaz. vol. 183; p. 48.
Sulfur from gas, Recovering. K. Burkheiser. No. 1,018,479; Feb. 27; Sp. p. 4976; Gaz. vol. 175; p. 877.
Sulfur solution, Making lime-. W. Kibler. No. 1,038,387; Sept. 10; Gaz. vol. 182; p. 439.
Sulfur trioxid, Making. K. Albert. No. 1,018,402; Feb. 27; Sp. p. 4800; Gaz. vol. 175; p. 851.
Sulfuric anhydrid, Making. H. Howard. No. 1,028,880; June 11; Sp. p. 1758; Gaz. vol. 179; p. 308.
Sulky, Child's. W. J. Sleffel. No. 1,046,663; Dec. 10; Gaz. vol. 185; p. 341.
Sulky runner attachment, Track-. B. F. Cayford. No. 1,047,745; Dec. 17; Gaz. vol. 185; p. 750.
Sun and rain protector. G. Savage. No. 1,018,522; Feb. 27; Sp. p. 5120; Gaz. vol. 175; p. 892.
Sun-dial. W. R. Pilkington. No. 1,044,238; Nov. 12; Gaz. vol. 184; p. 448.
Sun-shield for the nose. J. J. Maurice. No. 1,048,191; Dec. 24; Gaz. vol. 185; p. 927.
Sunken bodies, Device for raising. J. Polizzi and F. W. Calongne. No. 1,019,724; Mar. 5; Sp. p. 1556; Gaz. vol. 176; p. 242.
Superheater. H. Smith. No. 1,014,530; Jan. 9; Sp. p. 3155; Gaz. vol. 174; p. 525.
Superheater. J. Milne. No. 1,025,151; May 7; Sp. p. 83; Gaz. vol. 178; p. 15.
Superheater. S. M. Vauclain. No. 1,034,540; Aug. 6; Gaz. vol. 181; p. 46.

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Superheater. J. M. McClellon. No. 1,038,172; Sept. 10; Gaz. vol. 182; p. 366.
Superheater-boiler. J. E. Bell. No. 1,036,517; Aug. 20; Gaz. vol. 181; p. 789.
Superheater-boiler. J. P. Sneddon. No. 1,045,207; Nov. 26; Gaz. vol. 184; p. 842.
Superheater-boiler. J. E. Bell. No. 1,045,248; Nov. 26; Gaz. vol. 184; p. 857.
Superheater-boiler. A. D. Pratt. No. 1,047,698; Dec. 17; Gaz. vol. 185; p. 733.
Superheater for heating purposes. F. O. Bynoe. No. 1,027,815; May 28; Sp. p. 5952; Gaz. vol. 178; p. 1033.
Superheater, Smoke-tube. W. Schmidt and P. Thomsen. No. 1,049,155; Dec. 31; Gaz. vol. 185; p. 1296.
Superheating and other purposes, Making structures for. H. Luckenbach. No. 1,025,817; May 7; Sp. p. 1553; Gaz. vol. 178; p. 246.
Superphosphate-chamber. H. P. C. Freudenthal. No. 1,037,464; Sept. 3; Gaz. vol. 182; p. 98.
Superphosphate-chamber and means for emptying the same. J. F. C. M. Tröbs. No. 1,013,334; Jan. 2; Sp. p. 544; Gaz. vol. 174; p. 87.
Superphosphate-chambers by means of revolving knives, Apparatus for mechanically emptying. E. Wenk. No. 1,033,854; July 30; Gaz. vol. 180; p. 1173.
Superphosphates, Plant for the mechanical discharge of vessels serving for the treatment of. E. Wenk. No. 1,033,853; July 30; Gaz. vol. 180; p. 1173.
Supply-tank, Reserve. E. Greene. No. 1,038,119; Sept. 10; Gaz. vol. 182; p. 347.
Support. G. W. Niebling. No. 1,014,021; Jan. 9; Sp. p. 2088; Gaz. vol. 174; p. 350.
Support, Adjustable. F. Mergner. No. 1,024,804; Apr. 30; Sp. p. 6605; Gaz. vol. 177; p. 1161.
Support, Adjustable. J. Allingham. No. 1,032,801; July 16; Gaz. vol. 180; p. 758.
Support and seat-bracket, Adjustable. J. Allingham. No. 1,017,724; Feb. 20; Sp. p. 3248; Gaz. vol. 175; p. 583.
Support, Folding. B. Fye. No. 1,044,879; Nov. 19; Gaz. vol. 184; p. 700.
Support, Sanitary. J. L. Bornstein. No. 1,041,420; Oct. 15; Gaz. vol. 183; p. 656.
Support, Work-. A. Chaplin and J. J. Marsh. No. 1,032,881; July 16; Gaz. vol. 180; p. 784.
Supporter for articles of apparel. A. B. Beck. No 1,041,408; Oct. 15; Gaz. vol. 183; p. 652.
Supporting-clip. D. M. Kerr. No. 1,041,296; Oct. 15; Gaz. vol. 183; p. 616.
Supporting device. M. J. Shimer. No. 1,015,717; Jan. 23; Sp. p. 5794; Gaz. vol. 174; p. 987.
Supporting device. F. Jensen, D. Conlan, Jr., and L. H. Dyer. No. 1,040,341; Oct. 8; Gaz. vol. 183; p. 255.
Supporting-frame. M. H. Jester. No. 1,045,297; Nov. 26; Gaz. vol. 184; p. 873.
Supporting mechanism. A. Scheible. No. 1,042,150; Oct. 22; Gaz. vol. 183; p. 937.
Suppository. J. J. De Gloria. No. 1,035,546; Aug. 13; Gaz. vol. 181; p. 418.
Suprarenal glands, Producing a metallic derivative of the active principle of the. J. L. Turner. No. 1,016,185; Jan. 30; Sp. p. 6750; Gaz. vol. 174; p. 1176.
Surface-covering. E. T. Bates. No. 1,040,117; Oct. 1; Gaz. vol. 183; p. 150.
Surface-finisher, Portable. J. P. Buchanan. No. 1,044,011; Nov. 12; Gaz. vol. 184; p. 371.
Surface-gage. J. B. Flint. No. 1,032,999; July 16; Gaz. vol. 180; p. 822.
Surface-indicator. L. L. Leigh. No. 1,040,219; Oct. 1; Gaz. vol. 183; p. 183.
Surface-treating machine. F. I. Ferenczy. No. 1,022,836; Apr. 9; Sp. p. 2322; Gaz. vol. 177; p. 397.
Surfacing-machine. G. Burwell. No. 1,033,872; July 30; Gaz. vol. 180; p. 1180.
Surfacing-machine. J. E. Rightmire. No. 1,040,419; Oct. 8; Gaz. vol. 183; p. 281.
Surfacing-machine. A. E. Chappell. No. 1,041,240; Oct. 15; Gaz. vol. 183; p. 595.
Surgeon's operating-table. W. R. Grady. No. 1,018,757; Feb. 27; Sp. p. 5623; Gaz. vol. 175; p. 972.
Surgical appliance. A. Bitterlich. No. 1,013,924; Jan. 9; Sp. p. 1872; Gaz. vol. 174; p. 319.
Surgical appliance. N. F. Mighell. No. 1,041,138; Oct. 15; Gaz. vol. 183; p. 561.
Surgical bandage. E. M. Pond. No. 1,044,817; Nov. 19; Gaz. vol. 184; p. 679.
Surgical bandages, Machine for making. O. C. Schulz. No. 1,026,283; May 14; Sp. p. 2627; Gaz. vol. 178; p. 439.
Surgical belt or device for the treatment of movable kidneys and other like purposes. E. W. Salt. No. 1,013,900; Jan. 9; Sp. p. 1808; Gaz. vol. 174; p. 310.
Surgical instrument. R. S. Arthur. No. 1,014,799; Jan. 16; Sp. p. 3806; Gaz. vol. 174; p. 647.
Surgical instrument. D. L. Aber. No. 1,031,314; July 2; Gaz. vol. 180; p. 164.
Surgical instrument. W. E. McMordie. No. 1,046,098; Dec. 3; Gaz. vol. 185; p. 103.
Surgical-instrument container. R. P. and C. H. McCully. No. 1,043,333; Nov. 5; Gaz. vol. 184; p. 103.
Surgical kit. H. W. Sanford. No. 1,025,207; May 7; Sp. p. 216; Gaz. vol. 178; p. 36.
Surgical-needle holder. J. C. Carlson and O. G. Saxton. No. 1,037,864; Sept. 10; Gaz. vol. 182; p. 262.
Surprise and alarm device. J. L. Kellogg. No. 1,041,095; Oct. 15; Gaz. vol. 183; p. 547.
Surveying instrument. E. E. Graham. No. 1,023,373; Apr. 16; Sp. p. 3458; Gaz. vol. 177; p. 617.
Surveying instrument. M. Gasser. No. 1,025,911; May 7; Sp. p. 1796; Gaz. vol. 178; p. 276.
Surveying instrument. G. H. Stone. No. 1,032,437; July 16; Gaz. vol. 180; p. 633.
Surveying instrument. E. R. Graves. No. 1,036,096; Aug. 20; Gaz. vol. 181; p. 642.
Surveying instrument. W. N. McGowan. No. 1,042,248; Oct. 22; Gaz. vol. 183; p. 969.
Surveying instrument, Topographical. P. Gaultier. No. 1,014,143; Jan. 9; Sp. p. 2343; Gaz. vol. 174; p. 392.
Suspender attachment. L. B. Johnson. No. 1,040,955; Oct. 8; Gaz. vol. 183; p. 465.
Suspender-fastener. F. W. Cooley. No. 1,041,434; Oct. 15; Gaz. vol. 183; p. 660.
Suspender-garter for stockings. H. Fenton. No. 1,036,595; Aug. 27; Gaz. vol. 181; p. 849.
Suspender members, Narrow fabric for. C. S. Smith. No. 1,013,692; Jan. 2; Sp. p. 1346; Gaz. vol. 174; p. 209.
Suspenders. F. J. Hengy. No. 1,032,901; July 16; Gaz. vol. 180; p. 791.
Suspenders. F. Kaschewski. No. 1,035,357; Aug. 13; Gaz. vol. 181; p. 355.
Suspenders. M. Bono. No. 1,040,128; Oct. 1; Gaz. vol. 183; p. 153.
Suspenders. S. Martin. No. 1,042,939; Oct. 29; Gaz. vol. 183; p. 1236.
Suspenders. C. A. Murray. No. 1,045,427; Nov. 26; Gaz. vol. 184; p. 918.
Suspenders. H. Adkinson. No. 1,046,363; Dec. 3; Gaz. vol. 185; p. 197.
Suspension-bracket, Adjustable. J. Kennedy. No. 1,045,153; Nov. 26; Gaz. vol. 184; p. 823.
Suspension or chatelaine pin, Safety. C. A. Holbrook. No. 1,044,887; Nov. 19; Gaz. vol. 184; p. 703.
Suspension-rack. F. E. Norwood. No. 1,035,895; Aug. 20; Gaz. vol. 181; p. 574.
Suspension system. P. Pforr. No. 1,035,045; Aug. 6; Gaz. vol. 181; p. 214.
Suspensory. H. W. Montgomery. No. 1,017,897; Feb. 20; Sp. p. 3715; Gaz. vol. 175; p. 646.
Suspensory. M. E. O'Reilly. No. 1,023,478; Apr. 16; Sp. p. 3674; Gaz. vol. 177; p. 651.
Suspensory and supporter, Convertible. A. Bauer. No. 1,030,224; June 18; Sp. p. 4687; Gaz. vol. 179; p. 806.
Swab. C. M. Heeter. No. 1,021,600; Mar. 26; Sp. p. 5528; Gaz. vol. 176; p. 992.
Swab. H. D. Rapson. No. 1,047,703; Dec. 17; Gaz. vol. 185; p. 735.
Swage-machine. H. Schweitzer. No. 1,019,994; Mar. 12; Sp. p. 2107; Gaz. vol. 176; p. 363.
Swaging-machine. F. Lange. No. 1,045,989; Dec. 3; Gaz. vol. 185; p. 66.
Swaging-mill. G. H. Blaxter. (Reissue.) No. 13,377; Mar. 5; Sp. p. 1593; Gaz. vol. 176; p. 248.
Swath-turner or hay-collector. J. and C. J. Bamford. No. 1,047,147; Dec. 17; Gaz. vol. 185; p. 535.
Sweep-holder attachment. J. H. Booth. No. 1,031,234; July 2; Gaz. vol. 180; p. 136.
Sweeper. J. P. O'Connell. No. 1,021,161; Mar. 26; Sp. p. 4575; Gaz. vol. 176; p. 841.
Sweeper. J. A. Humm. No. 1,044,052; Nov. 12; Gaz. vol. 184; p. 384.
Sweeper and rake, Combined. P. May. No. 1,014,404; Jan. 9; Sp. p. 2930; Gaz. vol. 174; p. 486.
Sweeper, Vacuum-. F. J. Matchette. No. 1,035,372; Aug. 13; Gaz. vol. 181; p. 360.
Swimmers, Floating device for. F. J. Culomer. No. 1,027,642; May 28; Sp. p. 5579; Gaz. vol. 178; p. 975.
Swimming apparatus. P. Lentz. No. 1,027,741; May 28; Sp. p. 5785; Gaz. vol. 178; p. 1008.
Swimming apparatus. I. Scott. No. 1,031,877; July 9; Gaz. vol. 180; p. 401.
Swimming appliance. H. W. McLeod. No. 1,014,407; Jan. 9; Sp. p. 2934; Gaz. vol. 174; p. 486.
Swimming, Hand attachment serviceable for. E. Boman. No. 1,014,939; Jan. 16; Sp. p. 4130; Gaz. vol. 174; p. 696.
Swing. G. W. Schilling. No. 1,016,712; Feb. 6; Sp. p. 1082; Gaz. vol. 175; p. 166.
Swing. V. Swanfelt. No. 1,020,229; Mar. 12; Sp. p. 2618; Gaz. vol. 176; p. 443.
Swing. J. H. Frey. No. 1,021,590; Mar. 26; Sp. p. 5514; Gaz. vol. 176; p. 990.
Swing. T. Fischer. No. 1,025,797; May 7; Sp. p. 1514; Gaz. vol. 178; p. 239.
Swing. R. W. Mackneer. No. 1,025,819; May 7; Sp. p. 1558; Gaz. vol. 178; p. 246.
Swing. P. H. Regan. No. 1,026,179; May 14; Sp. p. 2397; Gaz. vol. 178; p. 404.
Swing. J. S. Bohatka. No. 1,026,784; May 21; Sp. p. 3731; Gaz. vol. 178; p. 646.

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Swing. G. W. Schilling. No. 1,027,157; May 21; Sp. p. 4607; Gaz. vol. 178; p. 773.
Swing. W. Koller. No. 1,045,166; Nov. 26; Gaz. vol. 184; p. 824.
Swing and other articles of furniture, Combination-. I. B. Sanders. No. 1,013,956; Jan. 9; Sp. p. 1946; Gaz. vol. 174; p. 330.
Swing and the like, Porch-. A. H. Klesa. No. 1,026,212; May 14; Sp. p. 2488; Gaz. vol. 178; p. 416.
Swing attachment. J. T. Walston. No. 1,020,335; Mar. 12; Sp. p. 2802; Gaz. vol. 176; p. 475.
Swing, Circle-. D. A. Reed and R. W. Snow. No. 1,027,068; May 21; Sp. p. 4413; Gaz. vol. 178; p. 746.
Swing, Horse-. H. Miller. No. 1,015,239; Jan. 16; Sp. p. 4726; Gaz. vol. 174; p. 797.
Swing, Reclining porch-. E. R. King. No. 1,023,657; Apr. 16; Sp. p. 4035; Gaz. vol. 177; p. 707.
Swing ring-bearing. R. S. Buch. No. 1,044,133; Nov. 12; Gaz. vol. 184; p. 411.
Swing, Roundabout-. O. P. Jones. No. 1,044,391; Nov. 12; Gaz. vol. 184; p. 500.
Swinging-fixture mounting. C. H. Driver. No. 1,028,864; June 11; Sp. p. 1717; Gaz. vol. 179; p. 301.
Swinging gate. W. W. Tong. No. 1,041,906; Oct. 22; Gaz. vol. 183; p. 857.
Swingle or double tree. P. Pecard. No. 1,039,318; Sept. 24; Gaz. vol. 182; p. 812.
Swingletree. L. E. Barnes. No. 1,025,045; Apr. 30; Sp. p. 7077; Gaz. vol. 177; p. 1244.
Swingletree. J. C. Garrigus. No. 1,037,895; Sept. 10; Gaz. vol. 182; p. 274.
Swingletree and trace connection. W. A. Stinson. No. 1,017,024; Feb. 13; Sp. p. 1760; Gaz. vol. 175; p. 307.
Swingletree-guard. H. F. Corey. No. 1,014,284; Jan. 9; Sp. p. 2653; Gaz. vol. 174; p. 442.
Swingletree, Spring-. G. W. Yates. No. 1,024,760; Apr. 30; Sp. p. 6510; Gaz. vol. 177; p. 1146.
Swingletree, Spring-. A. Nelson. No. 1,039,784; Oct. 1; Gaz. vol. 183; p. 39.
Swingletrees or draft members, Making. D. M. Smith. No. 1,049,160; Dec. 31; Gaz. vol. 185; p. 1297.
Switch: *See* Automatic switch; Automatic regulating-switch; Battery-switch; Bell-switch; Car-switch; Carrier-switch; Centrifugal switch; Clock-controlled switch; Contact-switch; Conveyer-switch; Crossover-switch; Current-switch; Cut-off switch; Door-switch; Double-throw switch; Electric switch; Electric cut-out switch; Electric-light switch; Electric-line switch; Electric pull-socket switch; Electric push-switch; Electric push-button switch; Electric snap-switch; Electric time-switch; Electric track-switch; Electrical switch; Electrical-circuit switch; Electrical pendant switch; Electromagnetic switch; Electromagnetically-operated switch; Expulsion-switch; Flame-proof switch; Foot-pedal switch; Fuse-switch; Fused disconnecting-switch; Horn-gap switch; Ignition-system switch; Knife-switch; Lighting-switch; Lock-switch; Monorail-switch; Motor-operated switch; Motor-starting switch; Multithrow switch; Oil-switch; Plug-switch; Plunger-switch; Push-switch; Push-button switch; Railway-switch; Railway drop-switch; Railway tongue-switch; Safety-switch; Signal-switch; Snap-switch; Socket-switch; Speed-responsive switch; Spring-switch; Steering-post switch; Thermotic switch; Time-switch; Track-switch; Trolley-switch; Trolley-conveyer switch; Trolley-trackway switch; Trolley-wire switch.
Switch. E. E. Taylor and D. H. Elkins. No. 1,015,097; Jan. 16; Sp. p. 4456; Gaz. vol. 174; p. 750.
Switch. C. H. Dimock. No. 1,021,665; Mar. 26; Sp. p. 5630; Gaz. vol. 176; p. 1013.
Switch. J. F. McElroy. No. 1,023,264; Apr. 16; Sp. p. 3263; Gaz. vol. 177; p. 582.
Switch. W. H. Kirkwood. No. 1,026,680; May 21; Sp. p. 3500; Gaz. vol. 178; p. 611.
Switch. C. D. Logan. No. 1,028,041; May 28; Sp. p. 6480; Gaz. vol. 178; p. 1108.
Switch. A. J. Loguin. No. 1,030,593; June 25; Sp. p. 5637; Gaz. vol. 179; p. 977.
Switch. A. V. A. McHarg. No. 1,036,294; Aug. 20; Gaz. vol. 181; p. 712.
Switch. J. S. Purcell and J. M. Walker. No. 1,037,170; Aug. 27; Gaz. vol. 181; p. 1040.
Switch. F. J. Seyerle. No. 1,045,897; Dec. 3; Gaz. vol. 185; p. 34.
Switch. J. Gordon, Jr. No. 1,046,384; Dec. 3; Gaz. vol. 185; p. 204.
Switch. J. Holdsworth and F. R. Blackburn. No. 1,049,236; Dec. 31; Gaz. vol. 185; p. 1323.
Switch-actuating mechanism, Electrical. B. D. Horton. No. 1,022,628; Apr. 9; Sp. p. 1846; Gaz. vol. 177; p. 323.
Switch and branch plug, Combined. F. Graf. No. 1,019,455; Mar. 5; Sp. p. 1034; Gaz. vol. 176; p. 152.
Switch and cut-out box. W. P. Carstarphen, Jr. No. 1,018,297; Feb. 20; Sp. p. 4563; Gaz. vol. 175; p. 783.
Switch and cut-out device. A. V. A. McHarg. No. 1,036,293; Aug. 20; Gaz. vol. 181; p. 712.
Switch and safety-fuse, Combination. J. S. Johnston. No. 1,049,305; Dec. 31; Gaz. vol. 185; p. 1348.
Switch and starting device, Combined. A. A. Kent. No. 1,043,110; Nov. 5; Gaz. vol. 184; p. 21.
Switch and tap-off, Combined. W. J. Newton. No. 1,038,940; Sept. 17; Gaz. vol. 182; p. 667.
Switch-box. J. Kronberger. No. 1,024,902; Apr. 30; Sp. p. 6802; Gaz. vol. 177; p. 1196.
Switch-box. B. A. Nelson. No. 1,025,585; May 7; Sp. p. 1077; Gaz. vol. 178; p. 166.
Switch-box, Waterproof. R. R. Miller. No. 1,021,373; Mar. 26; Sp. p. 5007; Gaz. vol. 176; p. 914.
Switch-boxes, Cover for electric. H. B. Roe. No. 1,038,963; Sept. 17; Gaz. vol. 182; p. 674.
Switch equipment, Contact-. J. R. Nestor. No. 1,043,532; Nov. 5; Gaz. vol. 184; p. 174.
Switch for alternating-current machines. F. W. Trefry. No. 1,038,990; Sept. 17; Gaz. vol. 182; p. 683.
Switch-handle. C. W. Eisenmann. No. 1,025,691; May 7; Sp. p. 1294; Gaz. vol. 178; p. 201.
Switch-handle. M. Guett. No. 1,047,935; Dec. 24; Gaz. vol. 185; p. 943.
Switch-lock, Automatic safety. F. C. Anderson. No. 1,034,410; Aug. 20; Gaz. vol. 181; p. 753.
Switch-lock, Automatic safety. F. C. Anderson. No. 1,048,122; Dec. 24; Gaz. vol. 185; p. 905.
Switch-lock for ignition-circuits. P. Hoffmann and T. H. Hupfer. No. 1,036,115; Aug. 20; Gaz. vol. 181; p. 648.
Switch-lock, Safety. G. Marshall. No. 1,026,875; May 21; Sp. p. 3925; Gaz. vol. 178; p. 677.
Switch-locking mechanism. T. M. Freeble. No. 1,042,103; Oct. 22; Gaz. vol. 183; p. 923.
Switch means, Electrical. H. L. Furr. No. 1,020,818; Mar. 19; Sp. p. 3856; Gaz. vol. 176; p. 675.
Switch mechanism. E. E. Kessler. No. 1,025,276; May 7; Sp. p. 361; Gaz. vol. 178; p. 59.
Switch mechanism. G. W. Fisher and F. Hoyland, Jr. No. 1,027,468; May 28; Sp. p. 5233; Gaz. vol. 178; p. 918.
Switch mechanism. E. G. K. Anderson. No. 1,031,768; July 9; Gaz. vol. 180; p. 362.
Switch mechanism, Electric-. E. Edwards and G. W. Briggs. No. 1,044,507; Nov. 19; Gaz. vol. 184; p. 569.
Switch mechanism, Quick-breaking electric-. T. W. Thomas. No. 1,021,016; Mar. 26; Sp. p. 4272; Gaz. vol. 176; p. 793.
Switch-operating cord or chain. A. A. Tirrill. No. 1,031,399; July 2; Gaz. vol. 180; p. 193.
Switch-operating cord or chain. A. A. Tirrill. No. 1,031,400; July 2; Gaz. vol. 180; p. 193.
Switch-operating device. D. H. McDaniels. No. 1,024,735; Apr. 30; Sp. p. 6451; Gaz. vol. 177; p. 1138.
Switch-operating device. G. F. Williams. No. 1,025,355; May 7; Sp. p. 552; Gaz. vol. 178; p. 86.
Switch-operating mechanism. G. Chaumeret. No. 1,017,851; Feb. 20; Sp. p. 3582; Gaz. vol. 175; p. 628.
Switch-operating mechanism. C. W. Morris. No. 1,031,082; July 2; Gaz. vol. 180; p. 83.
Switch-operating mechanism. C. E. Wenrich. No. 1,031,404; July 2; Gaz. vol. 180; p. 194.
Switch-operating mechanism. T. E. Heeter. No. 1,042,435; Oct. 29; Gaz. vol. 183; p. 1061.
Switch-operating mechanism. N. B. Mitchell and J. W. Taggart, Sr. No. 1,042,812; Oct. 29; Gaz. vol. 183; p. 1193.
Switch-operating mechanism. A. W. Rollings and J. H. Sweeney. No. 1,044,916; Nov. 19; Gaz. vol. 184; p. 713.
Switch operating mechanism, Combined track and trolley. J. E. Nicholson. No. 1,024,353; Apr. 23; Sp. p. 5532; Gaz. vol. 177; p. 969.
Switch-operating mechanism, Electric-. A. B. Allen. No. 1,029,250; June 11; Sp. p. 2559; Gaz. vol. 179; p. 433.
Switch or circuit-opener for high-potential circuits. C. C. Badeau. No. 1,041,570; Oct. 15; Gaz. vol. 183; p. 704.
Switch or junction box. O. C. Hoffmann. No. 1,026,164; May 14; Sp. p. 2365; Gaz. vol. 178; p. 399.
Switch-point. P. Hoffmann. No. 1,033,400; July 23; Gaz. vol. 180; p. 998.
Switch-point guard. D. S. Jones. No. 1,032,484; July 16; Gaz. vol. 180; p. 649.
Switch-point lock. W. H. H. Welton. No. 1,013,978; Jan. 9; Sp. p. 1991; Gaz. vol. 174; p. 337.
Switch-point-throwing mechanism. E. F. Wiederholdt. No. 1,035,110; Aug. 6; Gaz. vol. 181; p. 236.
Switch-shield. R. F. Codero. No. 1,015,138; Jan. 16; Sp. p. 4534; Gaz. vol. 174; p. 764.
Switch-socket. R. B. Benjamin. No. 1,021,177; Mar. 26; Sp. p. 4611; Gaz. vol. 176; p. 846.
Switch-stand. C. L. Williams. No. 1,018,857; Feb. 27; Sp. p. 5819; Gaz. vol. 175; p. 1006.
Switch-stand. W. M. Henderson. No. 1,031,445; July 2; Gaz. vol. 180; p. 208.
Switch-stand. F. C. Anderson. No. 1,034,948; Aug. 6; Gaz. vol. 181; p. 183.
Switch-stand. S. F. Philips. No. 1,044,237; Nov. 12; Gaz. vol. 184; p. 447.
Switch-stand adjustment. W. J. Wilmot-Gilbert. No. 1,043,184; Nov. 5; Gaz. vol. 184; p. 50.
Switch-stand interlocking mechanism, Automatic auxiliary gravity-lock for. F. C. Anderson. No. 1,048,480; Dec. 31; Gaz. vol. 185; p. 1062.
Switch structure. E. Ash. No. 1,027,792; May 28; Sp. p. 5888; Gaz. vol. 178; p. 1024.

Alphabetical list of inventions—Continued.

Switch structure. V. Angerer. No. 1,037,817; Sept. 3; Gaz. vol. 182; p. 213.
Switch supporting and controlling mechanism, Electric-. J. S. Thompson. No. 1,047,463; Dec. 17; Gaz. vol. 185; p. 649.
Switch terminal and contact, Snap-. C. N. Machen. No. 1,025,634; May 7; Sp. p. 1186; Gaz. vol. 178; p. 182.
Switch throwing and locking mechanism. G. F. Weiss. No. 1,026,618; May 14; Sp. p. 3339; Gaz. vol. 178; p. 551.
Switch-throwing device. J. B. and A. Logan. No. 1,018,918; Feb. 27; Sp. p. 5953; Gaz. vol. 175; p. 1026.
Switch-throwing device. J. Molnár. No. 1,022,863; Apr. 9; Sp. p. 2369; Gaz. vol. 177; p. 405.
Switch-throwing device. D. Osburn. No. 1,024,279; Apr. 23; Sp. p. 5408; Gaz. vol. 177; p. 947.
Switch-throwing device. Z. L. Pierce and D. Warren. No. 1,026,602; May 14; Sp. p. 3299; Gaz. vol. 178; p. 545.
Switch-throwing device. O. S. Weddell. No. 1,026,726; May 21; Sp. p. 3600; Gaz. vol. 178; p. 625.
Switch-throwing device. V. Szucs. No. 1,030,941; July 2; Gaz. vol. 180; p. 31.
Switch-throwing device. F. Slonowski. No. 1,042,163; Oct. 22; Gaz. vol. 183; p. 942.
Switch-throwing mechanism. J. M. Leonard. No. 1,015,044; Jan. 16; Sp. p. 4359; Gaz. vol. 174; p. 731.
Switch-throwing mechanism. H. V. Elmore. No. 1,015,669; Jan. 23; Sp. p. 5689; Gaz. vol. 174; p. 972.
Switch-throwing mechanism. P. J. Reiger. No. 1,021,949; Apr. 2; Sp. p. 422; Gaz. vol. 177; p. 68.
Switch-throwing mechanism. J. Meany. No. 1,048,563; Dec. 31; Gaz. vol. 185; p. 1091.
Switches, Control of electrically-operated. H. E. White. No. 1,022,907; Apr. 9; Sp. p. 2467; Gaz. vol. 177; p. 420.
Switches, Control of electrically-operated. H. E. White. No. 1,025,498; May 7; Sp. p. 876; Gaz. vol. 178; p. 136.
Switches, Interlocking device for remote-control. C. Wiler. No. 1,024,238; Apr. 23; Sp. p. 5330; Gaz. vol. 177; p. 934.
Switches, Means to electrically control street-. S. K. Stinger, Jr., and H. K. Robinson. No. 1,025,545; May 7; Sp. p. 989; Gaz. vol. 178; p. 153.
Switches, Rotary contact for snap-. C. D. Platt. No. 1,037,525; Sept. 3; Gaz. vol. 182; p. 118.
Switching apparatus. E. C. A. Hoh. No. 1,045,979; Dec. 3; Gaz. vol. 185; p. 63.
Switching apparatus, Controlling system for automatic. A. M. Bullard and J. N. Reynolds. No. 1,020,185; Mar. 12; Sp. p. 2512; Gaz. vol. 176; p. 427.
Switching apparatus, Magnetically-controlled. S. B. Condit, Jr. No. 1,014,455; Jan. 9; Sp. p. 3025; Gaz. vol. 174; p. 502.
Switching device. J. H. Lehman. No. 1,036,864; Aug. 27; Gaz. vol. 181; p. 928.
Switching device. D. D. Gordon. No. 1,040,309; Oct. 8; Gaz. vol. 183; p. 245.
Switching device, I-beam-track-. C. Messick. No. 1,014,503; Jan. 9; Sp. p. 3104; Gaz. vol. 174; p. 515.
Switching-key. E. G. Eidam. No. 1,043,307; Nov. 5; Gaz. vol. 184; p. 94.
Switching mechanism, Electric. J. S. Harley. No. 1,031,849; July 9; Gaz. vol. 180; p. 390.
Switchback, Automatic. L. E. Holcombe. No. 1,034,618; Aug. 6; Gaz. vol. 181; p. 71.
Switchboard. W. F. Weyrauch. No. 1,030,040; June 18; Sp. p. 4298; Gaz. vol. 179; p. 743.
Switchboard. W. J. Magee. No. 1,043,615; Nov. 5; Gaz. vol. 184; p. 203.
Switchboard and rheostat. E. M. Crane. No. 1,036,077; Aug. 20; Gaz. vol. 181; p. 635.
Swivel. J. Sharp. No. 1,021,271; Mar. 26; Sp. p. 4816; Gaz. vol. 176; p. 878.
Swivel. C. Guise. No. 1,026,351; May 14; Sp. p. 637; Gaz. vol. 178; p. 95.
Swivel-hook. M. J. Dunn. No. 1,034,432; Aug. 6; Gaz. vol. 181; p. 11.
Swivel-joint. F. G. Hayes. No. 1,034,232; July 30; Gaz. vol. 180; p. 1307.
Swivel pan-joint. T. Emtman. No. 1,031,777; July 9; Gaz. vol. 180; p. 365.
Swivel-plug attachment. A. W. Buell. No. 1,028,429; June 4; Sp. p. 803; Gaz. vol. 179; p. 122.
Swivel-union. T. D. Brinkop. No. 1,043,294; Nov. 5; Gaz. vol. 184; p. 88.
Sword and scabbard. E. F. Brunello. No. 1,028,428; June 4; Sp. p. 803; Gaz. vol. 179; p. 121.
Synchronical indicator or index for books, card systems, and records. S. J. Hare. No. 1,026,804; May 21; Sp. p. 3770; Gaz. vol. 178; p. 652.
Synchronizing system. W. A. Fricke. No. 1,016,618; Feb. 6; Sp. p. 896; Gaz. vol. 175; p. 134.
Synchrorotor. E. G. Thomas. No. 1,045,909; Dec. 3; Gaz. vol. 185; p. 39.
Syringe. J. F. Kellogg. No. 1,014,228; Jan. 9; Sp. p. 2533; Gaz. vol. 174; p. 423.
Syringe. N. Pernice. No. 1,014,608; Jan. 9; Sp. p. 3324; Gaz. vol. 174; p. 551.
Syringe. V. H. Ward. No. 1,019,207; Mar. 5; Sp. p. 442; Gaz. vol. 176; p. 70.
Syringe. A. E. Scott. No. 1,023,042; Apr. 9; Sp. p. 2738; Gaz. vol. 177; p. 468.
Syringe. G. M. Rhone. No. 1,038,960; Sept. 17; Gaz. vol. 182; p. 673.
Syringe. J. Payne. No. 1,044,688; Nov. 19; Gaz. vol. 184; p. 634.
Syringe. M. A. Grafflin and R. J. Gregg. No. 1,046,584; Dec. 10; Gaz. vol. 185; p. 313.
Syringe. E. E. Hall. No. 1,048,069; Dec. 24; Gaz. vol. 185; p. 885.
Syringe adapted to use liquids under pressure. C. J. Kintner. No. 1,036,262; Aug. 20; Gaz. vol. 181; p. 702.
Syringe case and supporter, Combination. J. W. Allan. No. 1,039,877; Oct. 1; Gaz. vol. 183; p. 70.
Syrup container and deliverer. C. J. Kennedy. No. 1,046,076; Dec. 3; Gaz. vol. 185; p. 95.
Syringe, Electric water-heating. H. M. Crawford. No. 1,026,564; May 14; Sp. p. 3227; Gaz. vol. 178; p. 533.
Syringe, Electrically-heated. M. H. Shoenberg. No. 1,026,611; May 14; Sp. p. 3328; Gaz. vol. 178; p. 549.
Syringe, Fountain-. S. B. Goff. No. 1,042,549; Oct. 29; Gaz. vol. 183; p. 1101.
Syringe, Hypodermic. J. T. Greeley. No. 1,015,952; Jan. 30; Sp. p. 6289; Gaz. vol. 174; p. 1094.
Syringe, Hypodermic. J. T. Greeley. No. 1,021,146; Mar. 26; Sp. p. 4534; Gaz. vol. 176; p. 836.
Syringe, Hypodermic and similar. J. A. Rowse. No. 1,015,276; Jan. 16; Sp. p. 4813; Gaz. vol. 174; p. 810.
Syringe, Hypodermic or other. W. D. Prideaux. No. 1,039,591; Sept. 24; Gaz. vol. 182; p. 908.
Syringe, Medical spraying-. M. Saenger. No. 1,024,422; Apr. 23; Sp. p. 5700; Gaz. vol. 177; p. 992.
Syringe-nozzle attachment. L. L. Zarbaugh. No. 1,031,609; July 2; Gaz. vol. 180; p. 264.
Syringe or irrigator, Aseptic fountain. S. N. Leach. No. 1,017,773; Feb. 20; Sp. p. 3409; Gaz. vol. 175; p. 601.
Syringe, Vaginal. G. J. Kelley. No. 1,015,895; Jan. 30; Sp. p. 6168; Gaz. vol. 174; p. 1075.
Syringe, Vaginal. S. S. Rumberg and F. C. Harttung. No. 1,022,601; Apr. 9; Sp. p. 1792; Gaz. vol. 177; p. 314.
Syringe, Vaginal. G. J. Kelley. No. 1,029,689; June 18; Sp. p. 3513; Gaz. vol. 179; p. 623.
Syringe, Vaginal. F. B. Mulgrew. No. 1,034,818; Aug. 6; Gaz. vol. 181; p. 141.
Syringe with electrical attachment. L. R. Saunders. No. 1,030,543; June 25; Sp. p. 5461; Gaz. vol. 179; p. 960.
Syringes, Attachment for garden and other. J. R. Bullen. No. 1,044,985; Nov. 19; Gaz. vol. 184; p. 736.
Syringes, &c., Piston for hypodermic. P. J. McElroy. No. 1,036,672; Aug. 27; Gaz. vol. 181; p. 875.
Syrup-cups or other vessels, Cover for. H. H. Lucas. No. 1,045,993; Dec. 3; Gaz. vol. 185; p. 67.
Syrup-pan. G. W. Baker. No. 1,034,407; Aug. 6; Gaz. vol. 181; p. 3.
Syruping-machine. L. E. Arnold. No. 1,046,715; Dec. 10; Gaz. vol. 185; p. 360.
Table; *See* Amalgamating-flume table; Assorting-table; Billiard-table; Center-stand fall-leaf table; Chiropractic table; Chiropractor's adjusting-table; Cigar-binder-cutting and bunch-maker's table; Computing-table; Concentrating-table; Desk-table; Draftsman's table; Dressing-table; Drying-table; Extensible table; Extension-table; Feeding-table; Folding table; Fruit assorting and packing table; Game-table; Gold-saving table; Invalid's table; Ironing-table; Kindergarten-table; Knockdown table; Library-table; Listing and marking table; Operating-table; Osteopathic table; Outlook-table; Packing-table; Physician's table; Pool-table; Power-table; Self-leveling table; Serving-table; Sewing-machine table; Shear-table; Sink draining-table; Sludge-table; Steam-table; Stereotyper's steam-table; Surgeon's operating-table; Trolley turn-table; Turn-table.
Table. J. Gras. No. 1,024,724; Apr. 30; Sp. p. 6433; Gaz. vol. 177; p. 1133.
Table. W. L. Muender. No. 1,031,659; July 2; Gaz. vol. 180; p. 281.
Table. M. Baron. No. 1,039,070; Sept. 17; Gaz. vol. 182; p. 706.
Table. C. S. Burnham. No. 1,043,567; Nov. 5; Gaz. vol. 184; p. 187.
Table. E. J. Nelson and H. Watkins. No. 1,046,631; Dec. 10; Gaz. vol. 185; p. 329.
Table and bench, Combined. A. E. MacDonald. No. 1,016,841; Feb. 6; Sp. p. 1343; Gaz. vol. 175; p. 207.
Table and desk, Combination. C. F. Schulz. No. 1,038,974; Sept. 17; Gaz. vol. 182; p. 678.
Table and ironing-board, Combined. J. T. Altermatt. No. 1,040,255; Oct. 8; Gaz. vol. 183; p. 225.
Table and ironing-board, Combined. H. Cohen. No. 1,046,977; Dec. 10; Gaz. vol. 185; p. 447.
Table-leg, Extensible. J. T. Gregory. No. 1,030,658; June 25; Sp. p. 5861; Gaz. vol. 179; p. 1002.
Table-leg, Foldable. F. L. Whitney. No. 1,039,868; Oct. 1; Gaz. vol. 183; p. 67.
Table-piece and fountain. F. C. Austin. No. 1,023,354; Apr. 16; Sp. p. 3425; Gaz. vol. 177; p. 612.
Table-service device. S. Anderson. No. 1,022,290; Apr. 2; Sp. p. 1129; Gaz. vol. 177; p. 180.

Alphabetical list of inventions—Continued.

Table signaling device. H. Bubeck. No. 1,034,685; Aug. 6; Gaz. vol. 181; p. 93.
Table support, Invalid-. E. C. Sneed. No. 1,043,638; Nov. 5; Gaz. vol. 184; p. 210.
Table-top protector. O. Winter. No. 1,034,852; Aug. 6; Gaz. vol. 181; p. 153.
Tables and similar articles, Support for. A. A. Cushman. No. 1,014,815; Jan. 16; Sp. p. 3837; Gaz. vol. 174; p. 653.
Tables, Brake for self-waiting. W. Centala. No. 1,017,849; Feb. 20; Sp. p. 3577; Gaz. vol. 175; p. 627.
Tables, Means for fastening cloth to game-. A. F. Hjort. No. 1,036,238; Aug. 20; Gaz. vol. 181; p. 694.
Tablet, Continuous. T. M. Vaughan. No. 1,037,373; Sept 3; Gaz. vol. 182; p. 66.
Tablet, Drawing-. A. K. Cross. No. 1,041,435; Oct. 15; Gaz. vol. 183; p. 661.
Tablet holder, Sketch-. A. Scott. No. 1,016,041; Jan. 30; Sp. p. 6482; Gaz. vol. 174; p. 1128.
Tablet, Manifolding writing-. J. Conrad. No. 1,046,978; Dec. 10; Gaz. vol. 185; p. 448.
Tabulating, back-spacing, and key-connecting mechanism. E. Parmly, Jr. No. 1,015,829; Jan. 30; Sp. p. 6020; Gaz. vol. 174; p. 1052.
Tabulating systems, Apparatus for use in. H. Hollerith. No. 1,030,305; June 25; Sp. p. 4887; Gaz. vol. 179; p. 874.
Tachometer. C. H. Veeder. No. 1,015,767; Jan. 23; Sp. p. 5894; Gaz. vol. 174; p. 1005.
Tachometer. C. H. Veeder. No. 1,016,906; Feb. 6; Sp. p. 1490; Gaz. vol. 175; p. 230.
Tachometer. C. H. Veeder. No. 1,025,342; May 7; Sp. p. 520; Gaz. vol. 178; p. 82.
Tachometer. W. H. Bristol. No. 1,034,190; July 30; Gaz. vol. 180; p. 1292.
Tachometer. M. Hoeft. No. 1,038,751; Sept. 17; Gaz vol. 182; p. 602.
Tack-drawer. G. P. Smith. No. 1,043,369; Nov. 5; Gaz. vol. 184; p. 116.
Tack-feeding mechanism. R. F. McFeely. No. 1,030,315; June 25; Sp. p. 4919; Gaz. vol. 179; p. 878.
Tack-feeding mechanism. C. D. Foye. No. 1,032,279; July 9; Gaz. vol. 180; p. 536.
Tack pulling and driving machine. J. B. Hadaway. No. 1,030,776; June 25; Sp. p. 6168; Gaz. vol. 179; p. 1044.
Tack-pulling machine. F. L. MacKenzie. No. 1,013,944; Jan. 9; Sp. p. 1913; Gaz. vol. 174; p. 325.
Tack-pulling machine. J. B. Hadaway. No. 1,016,328; Feb. 6; Sp. p. 211; Gaz. vol. 175; p. 32.
Tack-pulling machine. J. B. Hadaway. No. 1,021,519; Mar. 26; Sp. p. 5373; Gaz. vol. 176; p. 967.
Tack-pulling machine. J. B. Hadaway. No. 1,030,777; June 25; Sp. p. 6172; Gaz. vol. 179; p. 1044.
Tack-pulling machine. J. B. Hadaway. No. 1,030,886; July 2; Gaz. vol. 180; p. 13.
Tack-pulling machine. W. B. Keighley. No. 1,036,269; Aug. 20; Gaz. vol. 181; p. 705.
Tack-pulling machine, Insole-. O. C. Rumsey. No. 1,021,894; Apr. 2; Sp. p. 306; Gaz. vol. 177; p. 50.
Tack-pulling tool, Rotary. J. B. Hadaway. No. 1,028,455; June 4; Sp. p. 866; Gaz. vol. 179; p. 130.
Tack-saving device. A. L. Engberg. No. 1,029,857; June 18; Sp. p. 3913; Gaz. vol. 179; p. 681.
Tack-strip. J. Muth. No. 1,045,591; Nov. 26; Gaz. vol. 184; p. 977.
Tack weighing and packaging machine. W. O. Taylor. No. 1,019,555; Mar. 5; Sp. p. 1238; Gaz. vol. 176; p. 185.
Tack, Wiring-. C. C. Blake. No. 1,017,036; Feb. 13; Sp. p. 1785; Gaz. vol. 175; p. 311.
Tacks and the like, Machine for driving. F. Holbrook. No. 1,022,481; Apr. 9; Sp. p. 1535; Gaz. vol. 177; p. 276.
Tacking device. E. O. Engberg. No. 1,041,987; Oct. 22; Gaz. vol. 183; p. 884.
Tacking mechanism. J. Cavanagh. No. 1,026,944; May 21; Sp. p. 4123; Gaz. vol. 178; p. 702.
Tacking mechanism. H. Lyon. No. 1,028,238; June 4; Sp. p. 389; Gaz. vol. 179; p. 55.
Tacking mechanism. T. K. Keith. No. 1,030,819; June 25; Sp. p. 6290; Gaz. vol. 179; p. 1060.
Tag and label. F. Kohnle. No. 1,029,935; June 18; Sp. p. 4083; Gaz. vol. 179; p. 709.
Tag bracket, Automobile license-. E. M. Rosenbluth. No. 1,037,183; Aug. 27; Gaz. vol. 181; p. 1044.
Tag for motor-vehicles, License-. W. G. Anderton and C. S. Jarvis. No. 1,020,472; Mar. 19; Sp. p. 3098; Gaz. vol. 176; p. 559.
Tag-holder. F. J. Soth. No. 1,017,603; Feb. 13; Sp. p. 2995; Gaz. vol. 175; p. 506.
Tag-holder. J. A. Weitzel. No. 1,034,403; July 30; Gaz. vol. 180; p. 1367.
Tag-holder, Automobile. W. B. West. No. 1,016,723; Feb. 6; Sp. p. 1104; Gaz. vol. 175; p. 170.
Tag holder, License-. J. W. Yochem. No. 1,024,386; Apr. 23; Sp. p. 5584; Gaz. vol. 177; p. 980.
Tag, Key-. E. G. Patterson. No. 1,020,308; Mar. 12; Sp. p. 2755; Gaz. vol. 176; p. 467.
Tag-machine. A. H. Swett and W. D. La Batt. No. 1,037,367; Sept. 3; Gaz. vol. 182; p. 63.
Tag-making machine. A. L. Stevens. No. 1,014,916; Jan. 16; Sp. p. 4069; Gaz. vol. 174; p. 688.
Tag-making machine, Shipping-. J. P. Kuhns. No. 1,047,089; Dec. 10; Gaz. vol. 185; p. 484.
Tag-marking machine. G. H. Lang. No. 1,023,570; Apr. 16; Sp. p. 3864; Gaz. vol. 177; p. 680.
Tail-stock-clamping means. S. W. Putnam, 3d. No. 1,042,369; Oct. 22; Gaz. vol. 183; p. 1009.
Tail-stock-clamping mechanism. A. W. Whitcomb. No. 1,018,222; Feb. 20; Sp. p. 4413; Gaz. vol. 175; p. 758.
Tailor's appliance. A. F. Rowe. No. 1,015,083; Jan. 16; Sp. p. 4428; Gaz. vol. 174; p. 745.
Take-up, Rotary. A. A. Merritt. No. 1,041,715; Oct. 15; Gaz. vol. 183; p. 753.
Talking-machine. J. Jetter. No. 1,013,170; Jan. 2; Sp. p. 165; Gaz. vol. 174; p. 28.
Talking-machine. E. R. Johnson and J. C. English. No. 1,015,322; Jan. 23; Sp. p. 4924; Gaz. vol. 174; p. 852.
Talking-machine. J. C. English. No. 1,016,255; Feb. 6; Sp. p. 23; Gaz. vol. 175; p. 6.
Talking-machine. W. N. Dennison. No. 1,022,126; Apr. 2; Sp. p. 789; Gaz. vol. 177; p. 126.
Talking-machine. J. B. Browning. No. 1,022,180; Apr. 2; Sp. p. 907; Gaz. vol. 177; p. 145.
Talking-machine. W. H. Pumphrey. No. 1,026,178; May 14; Sp. p. 2395; Gaz. vol. 178; p. 403.
Talking-machine. H. Mikorey. No. 1,027,350; May 21; Sp. p. 4984; Gaz. vol. 178; p. 840.
Talking-machine. E. R. Johnson. No. 1,034,015; July 30; Gaz. vol. 180; p. 1232.
Talking-machine. C. Vogt. No. 1,034,664; Aug. 6; Gaz. vol. 181; p. 86.
Talking-machine. L. Lumiere. No. 1,036,285; Aug. 20; Gaz. vol. 181; p. 709.
Talking-machine. J. A. Rabbitt. No. 1,037,983; Sept. 10; Gaz. vol. 182; p. 305.
Talking-machine. J. A. Rabbitt. No. 1,041,871; Oct. 22; Gaz. vol. 183; p. 845.
Talking-machine. J. C. English. No. 1,042,098; Oct. 22; Gaz. vol. 183; p. 921.
Talking-machine. C. P. Carter. No. 1,047,497; Dec. 17; Gaz. vol. 185; p. 662.
Talking-machine. F. L. Dyer. No. 1,049,215; Dec. 31; Gaz. vol. 185; p. 1316.
Talking-machine amplifier. J. M. Evans. No. 1,036,474; Aug. 20; Gaz. vol. 181; p. 774.
Talking-machine attachment. P. J. Henry. No. 1,036,492; Aug. 20; Gaz. vol. 181; p. 781.
Talking-machine brake mechanism. W. J. Patterson. No. 1,037,976; Sept. 10; Gaz. vol. 182; p. 303.
Talking-machine horn. T. H. Towell. No. 1,024,108; Apr. 23; Sp. p. 5018; Gaz. vol. 177; p. 887.
Talking-machine horn. T. H. Towell. No. 1,033,215; July 23; Gaz. vol. 180; p. 935.
Talking-machine motor. E. R. Johnson. No. 1,020,206; Mar. 12; Sp. p. 2566; Gaz. vol. 176; p. 435.
Talking-machine-needle holder. J. Jetter. No. 1,034,387; July 30; Gaz. vol. 180; p. 1361.
Talking-machine, &c., needle. W. B. Nichols. No. 1,045,593; Nov. 26; Gaz. vol. 184; p. 978.
Talking-machine record. E. R. Johnson. No. 1,016,271; Feb. 6; Sp. p. 62; Gaz. vol. 175; p. 13.
Talking-machine-record holder. L. F. Douglass. No. 1,032,385; July 16; Gaz. vol. 180; p. 616.
Talking-machine records, Producing. J. P. Snare. No. 1,035,057; Aug. 6; Gaz. vol. 181; p. 217.
Talking-machine sound-box. A. Fischer. No. 1,013,145; Jan. 2; Sp. p. 109; Gaz. vol. 174; p. 19.
Talking-machine sound-box. A. Fischer. No. 1,013,146; Jan. 2; Sp. p. 110; Gaz. vol. 174; p. 20.
Talking-machine sound-box. B. L. Rinehart. No. 1,013,314; Jan. 2; Sp. p. 505; Gaz. vol. 174; p. 80.
Talking-machine sound-box. T. H. Macdonald. No. 1,014,240; Jan. 9; Sp. p. 2565; Gaz. vol. 174; p. 428.
Talking-machine sound-box. B. L. Rinehart. No. 1,028,606; June 4; Sp. p. 1177; Gaz. vol. 179; p. 180.
Talking-machine sound-box. E. R. Johnson. No. 1,041,799; Oct. 22; Gaz. vol. 183; p. 820.
Talking-machine sound-boxes, Needle-holder for. C. Vogt. No. 1,015,363; Jan. 23; Sp. p. 5019; Gaz. vol. 174; p. 867.
Talking-machine sound-conveying device. E. R. Johnson. No. 1,015,321; Jan. 23; Sp. p. 4921; Gaz. vol. 174; p. 852.
Talking-machine stand. A. Casagrande. No. 1,017,848; Feb. 20; Sp. p. 3576; Gaz. vol. 175; p. 627.
Talking-machine tone-clarifier. F. V. Morse. No. 1,014,841; Jan. 16; Sp. p. 3910; Gaz. vol. 174; p. 663.
Talking-machines and the like, Sound-conduit or amplifying device for. A. Fischer. No. 1,029,002; June 11; Sp. p. 2036; Gaz. vol. 179; p. 350.
Talking-machines, Automatic brake for. T. Birnbaum No. 1,021,756; Apr. 2; Sp. p. 1; Gaz. vol. 177; p. 3.
Talking-machines, Automatic cut-off for. J. W. Nelson. No. 1,021,109; Mar. 26; Sp. p. 4452; Gaz. vol. 176; p. 824.
Talking-machines, Automatic record-stopping device for. R. De Lan. No. 1,042,535; Oct. 29; Gaz. vol. 183; p. 1096.

Talking-machines, Means for automatically arresting. A. E. Spencer and F. C. Thomas. (Reissue.) No. 13,453; July 30; Gaz. vol. 180; p. 1372.
Talking-machines, &c., Sound-box for. E. De la Rue. No. 1,040,648; Oct. 8; Gaz. vol. 183; p. 365.
Talking-machines, telephones, &c., Sound-reproducer for. W. N. Hunter. No. 1,015,622; Jan. 23; Sp. p. 5583; Gaz. vol. 174; p. 956.
Tally device. G. T. Wade. No. 1,033,133; July 23; Gaz. vol. 180; p. 907.
Tamping-machine. O. Nolan. No. 1,036,139; Aug. 20; Gaz. vol. 181; p. 658.
Tamping-machine. H. Hancock. No. 1,040,194; Oct. 1; Gaz. vol. 183; p. 175.
Tamping-machine. B. Ohman. No. 1,043,245; Nov. 5; Gaz. vol. 184; p. 70.
Tamping-machine. C. W. Bradley. No. 1,047,738; Dec. 17; Gaz. vol. 185; p. 747.
Tamping shovel, Dirt-. H. A. Sherman. No. 1,033,074; July 16; Gaz. vol. 180; p. 849.
Tank. *See* Acid-tank; Beer cooling and storage tank; Developing-tank; Dip-tank; Dipping-tank; Flush-tank; Flushing-tank; Fountain-tank; Fuel-supply tank; Gas-tank; Glass-tank; Incubator heater-tank; Knockdown tank; Liquid-dispensing tank; Measuring-tank; Print and negative washing tank; Railway-tank; Rendering-tank; Sectional tank; Sectionized tank; Septic-tank; Settling-tank; Sheet-metal tank; Sprinkler-tank; Supply-tank; Vehicle-tank.
Tank-bands, Anchor for. A. E. Ostrander. No. 1,014,846; Jan. 16; Sp. p. 3923; Gaz. vol. 174; p. 665.
Tank-closure. W. S. Reid. No. 1,047,990; Dec. 24; Gaz. vol. 185; p. 860.
Tank elbow, Flush-. H. D. Möise. No. 1,037,165; Aug. 27; Gaz. vol. 181; p. 1038.
Tank-filling apparatus, Automatic starter for. H. B. Wilson. No. 1,013,713; Jan. 2; Sp. p. 1376; Gaz. vol. 174; p. 215.
Tank-gage. W. F. Warden. No. 1,020,785; Mar. 19; Sp. p. 3791; Gaz. vol. 176; p. 664.
Tank gage or indicator, Liquid-. S. P. Surber. No. 1,024,377; Apr. 23; Sp. p. 5570; Gaz. vol. 177; p. 977.
Tank-heater. W. Tinker. No. 1,017,481; Feb. 13; Sp. p. 2772; Gaz. vol. 175; p. 468.
Tank-heater. H. L. Ferris. No. 1,023,463; Apr. 16; Sp. p. 3641; Gaz. vol. 177; p. 646.
Tank-heater. C. H. Steyer. No. 1,035,259; Aug. 13; Gaz. vol. 181; p. 318.
Tank-heater. W. H. Bright. No. 1,037,725; Sept. 3; Gaz. vol. 182; p. 184.
Tank lever, Flush-. H. R. Kuehner. No. 1,017,423; Feb. 13; Sp. p. 2641; Gaz. vol. 175; p. 447.
Tank-mold. E. P. Fox. No. 1,023,465; Apr. 16; Sp. p. 3644; Gaz. vol. 177; p. 647.
Tank of large diameter. P. Forchheimer. No. 1,014,054; Jan. 9; Sp. p. 2164; Gaz. vol. 174; p. 362.
Tank support, Expansion-. C. H. Foster. No. 1,022,409; Apr. 9; Sp. p. 1369; Gaz. vol. 177; p. 251.
Tank-surface-discharge apparatus. R. A. Brooks. No. 1,040,872; Oct. 8; Gaz. vol. 183; p. 436.
Tanks, Automatic cut-off for. W. P. Norris. No. 1,016,516; Feb. 6; Sp. p. 654; Gaz. vol. 175; p. 98.
Tanks, Can guide and support for ice-. A. F. Cramer. No. 1,037,731; Sept. 3; Gaz. vol. 182; p. 186.
Tanks, &c., Construction of. G. H. and H. D. L. Lloyd. No. 1,033,913; July 30; Gaz. vol. 180; p. 1194.
Tanks, Indicating attachment for. J. B. Turner. No. 1,027,936; May 28; Sp. p. 6255; Gaz. vol. 178; p. 1074.
Tanks, Means for preventing moisture from entering transformer-. F. W. Hadley. No. 1,013,767; Jan. 2; Sp. p. 1497; Gaz. vol. 174; p. 237.
Tanks, Means for regulating the intake of water in siphonic flush-. G. Land. No. 1,031,127; July 2; Gaz. vol. 180; p. 99.
Tanks or reservoirs, Heating attachment for. C. S. Arnold and J. E. Kinner. No. 1,031,226; July 2; Gaz. vol. 180; p. 133.
Tanning. J. Forster. No. 1,028,563; June 4; Sp. p. 1089; Gaz. vol. 179; p. 165.
Tanning. G. H. Lindström. No. 1,039,150; Sept. 24; Gaz. vol. 182; p. 752.
Tanning compound. B. W. Newman. No. 1,034,283; July 30; Gaz. vol. 180; p. 1325.
Tanning compound. D. W. Brown. No. 1,036,958; Aug. 27; Gaz. vol. 181; p. 969.
Tanning compound. J. H. McWhirter. No. 1,047,968; Dec. 24; Gaz. vol. 185; p. 852.
Tanning, Ferric. J. Bystron. No. 1,048,294; Dec. 24; Gaz. vol. 185; p. 961.
Tap. G. Stroh. No. 1,029,727; June 18; Sp. p. 3610; Gaz. vol. 179; p. 636.
Tap. F. E. Wells. No. 1,046,518; Dec. 10; Gaz. vol. 185; p. 290.
Tap and reamer. F. E. Bocorselski. No. 1,040,610; Oct. 8; Gaz. vol. 183; p. 349.
Tap, Barrel-. E. W. Brague. No. 1,024,971; Apr. 30; Sp. p. 6939; Gaz. vol. 177; p. 1220.
Tap, Beer-. E. A. Lukowski. No. 1,020,212; Mar. 12; Sp. p. 2579; Gaz. vol. 176; p. 437.
Tap connection for kegs. H. C. Wiedeman. No. 1,043,181; Nov. 5; Gaz. vol. 184; p. 49.
Tap for acid-containers. J. Tombeur. No. 1,027,296; May 21; Sp. p. 4889; Gaz. vol. 178; p. 822.
Tap, Hold-on safety-. H. Otte. No. 1,018,336; Feb. 20; Sp. p. 4631; Gaz. vol. 175; p. 796.
Tap-holder and tap. M. Beck. No. 1,043,192; Nov. 5; Gaz. vol. 184; p. 52.
Tap or cock. C. F. E. A. Benkiser. No. 1,013,731; Jan. 2; Sp. p. 1415; Gaz. vol. 174; p. 223.
Tap or faucet. T. G. Strater, Jr. No. 1,034,043; July 30; Gaz. vol. 180; p. 1241.
Tap or faucet, Water. J. B. E. Delsuc. No. 1,047,763; Dec. 17; Gaz. vol. 185; p. 756.
Tap or nipple for earthenware containers. G. Henderson. No. 1,043,230; Nov. 5; Gaz. vol. 184; p. 66.
Tap-socket. W. N. Clouse. No. 1,031,914; July 9; Gaz. vol. 180; p. 412.
Tap-wrench. H. H. Edstrom. No. 1,020,598; Mar. 19; Sp. p. 3384; Gaz. vol. 176; p. 601.
Tap-wrench. W. Russell. No. 1,038,967; Sept. 17; Gaz. vol. 182; p. 675.
Tap-wrench. D. J. Normoyle. No. 1,041,858; Oct. 22; Gaz. vol. 183; p. 840.
Taps and plugs in water-mains, Device for removing and inserting. W. Hearns. No. 1,040,538; Oct. 8; Gaz. vol. 183; p. 323.
Tapping attachment. R. S. Blake. No. 1,021,179; Mar. 26; Sp. p. 4615; Gaz. vol. 176; p. 847.
Tapping device, Barrel-. S. Firbas and J. Milcinsky. No. 1,039,372; Sept. 24; Gaz. vol. 182; p. 831.
Tapping machine, Automatic nut-. O. P. Schlementz. No. 1,020,451; Mar. 19; Sp. p. 3054; Gaz. vol. 176; p. 553.
Tapping mains, &c., Machine for. J. M. Hill. No. 1,045,289; Nov. 26; Gaz. vol. 184; p. 871.
Tapping water-mains, Appliance for. F. P. Sharp. No. 1,039,827; Oct. 1; Gaz. vol. 183; p. 53.
Tape-holder. A. Musk. No. 1,020,152; Mar. 12; Sp. p. 2438; Gaz. vol. 176; p. 415.
Tape holder and moistener. F. G. Shuman. No. 1,016,966; Feb. 13; Sp. p. 1637; Gaz. vol. 175; p. 287.
Tape-line, Steel. J. E. Jones. No. 1,043,706; Nov. 5; Gaz. vol. 184; p. 233.
Tape-shrinking machine. B. F. Falter and G. J. Lederer. No. 1,038,104; Sept. 10; Gaz. vol. 182; p. 343.
Tape, Steel. J. M. Ezzell. No. 1,019,618; Mar. 5; Sp. p. 1354; Gaz. vol. 176; p. 206.
Taper-turning mechanism. J. Hartness. No. 1,036,104; Aug. 20; Gaz. vol. 181; p. 644.
Tar and ammonia from distillation-gases, Direct recovery of. W. Mueller. No. 1,043,452; Nov. 5; Gaz. vol. 184; p. 145.
Target. I. L. Reeves. No. 1,024,651; Apr. 30; Sp. p. 6286; Gaz. vol. 177; p. 1108.
Target. B. W. Bates and A. T. C. Hale. No. 1,027,371; May 21; Sp. p. 5034; Gaz. vol. 178; p. 848.
Target. W. E. Hawthorne. No. 1,032,060; July 9; Gaz. vol. 180; p. 460.
Target. W. C. Miner. No. 1,036,879; Aug. 27; Gaz. vol. 181; p. 942.
Target-board. G. W. Ferguson. No. 1,023,634; Apr. 16; Sp. p. 3996; Gaz. vol. 177; p. 702.
Target-clamp. F. O. Nelson. No. 1,017,229; Feb. 13; Sp. p. 2234; Gaz. vol. 175; p. 380.
Target, Collapsible or falling. C. B. Elliott. No. 1,025,944; May 7; Sp. p. 1872; Gaz. vol. 178; p. 287.
Target, Pitcher's. A. G. Everson. No. 1,043,308; Nov. 5; Gaz. vol. 184; p. 94.
Target-practice apparatus. H. H. Cummings. No. 1,014,620; Jan. 9; Sp. p. 3349; Gaz. vol. 174; p. 556.
Target-practice apparatus. F. Mitchell. No. 1,015,391; Jan. 23; Sp. p. 5081; Gaz. vol. 174; p. 876.
Target-practice apparatus. H. H. Cummings. No. 1,038,728; Sept. 17; Gaz. vol. 182; p. 593.
Target-practice apparatus. H. A. Stebbins and A. A. Adams. No. 1,041,365; Oct. 15; Gaz. vol. 183; p. 638.
Target-projecting machine. I. L. Reeves. No. 1,047,989; Dec. 24; Gaz. vol. 185; p. 860.
Target, Self-scoring. M. S. Ellis. No. 1,041,258; Oct. 15; Gaz. vol. 183; p. 602.
Target-throwing device. S. A. Huntley. No. 1,030,852; June 25; Sp. p. 6443; Gaz. vol. 179; p. 1073.
Target-trap. J. T. Swain. No. 1,017,272; Feb. 13; Sp. p. 2316; Gaz. vol. 175; p. 394.
Target-trap. J. H. Wilder. No. 1,038,700; Sept. 17; Gaz. vol. 182; p. 583.
Targets, Contact-making shuttle for self-scoring. M. S. Ellis. No. 1,041,259; Oct. 15; Gaz. vol. 183; p. 603.
Taximeter. R. G. Popp. No. 1,016,518; Feb. 6; Sp. p. 658; Gaz. vol. 175; p. 99.
Taximeter. M. Kuhn and R. Netter. No. 1,039,416; Sept. 24; Gaz. vol. 182; p. 845.
Taximeter. W. G. Wolfe. No. 1,043,381; Nov. 5; Gaz. vol. 184; p. 120.
Taximeter control. J. D. Sulsona. No. 1,023,050; Apr. 9; Sp. p. 2755; Gaz. vol. 177; p. 470.
Taximeters, Locking-shutter for. P. Richert. No. 1,033,056; July 16; Gaz. vol. 180; p. 843.
Tea and coffee pot and the like. A. F. Gardner. No 1,038,558; Sept. 17; Gaz. vol. 182; p. 534.
Tea and coffee strainer. A. L. Carlson. No. 1,015,293; Jan. 23; Sp. p. 4857; Gaz. vol. 174; p. 842.

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Tea-brewing apparatus. C. A. Sherman. No. 1,030,752; June 25; Sp. p. 6079; Gaz. vol. 179; p. 1035.
Tea, coffee, and other beverages, Apparatus for brewing. T. J. Howlett. No. 1,024,076; Apr. 23; Sp. p. 4939; Gaz. vol. 177; p. 875.
Tea-kettle attachment. I. R. Utterback, W. C. Springer, Jr., and W. L. Galbraith. No. 1,018,854; Feb. 27; Sp. p. 5814; Gaz. vol. 175; p. 1005.
Tea-kettle cover. O. F. Turner and W. H. Maple. No. 1,024,607; Apr. 30; Sp. p. 6190; Gaz. vol. 177; p. 1092.
Tea-strainer. H. D. Smith. No. 1,016,104; Jan. 30; Sp. p. 6620; Gaz. vol. 174; p. 1150.
Teaching fractional values, Device for. M. S. Whitman. No. 1,043,652; Nov. 5; Gaz. vol. 184; p. 215.
Teaching geography. M. Manson. No. 1,042,455; Oct. 29; Gaz. vol. 183; p. 1068.
Teaching shorthand, Means for. R. S. Ashton. No. 1,027,514; May 28; Sp. p. 5330; Gaz. vol. 178; p. 933.
Teaching telegraphic codes, Instrument for. T. M. St. John. No. 1,035,257; Aug. 13; Gaz. vol. 181; p. 317.
Teaching the art of aeroplaning, applicable also for amusement purposes, Apparatus for. W. H. Walters. No. 1,018,645; Feb. 27; Sp. p. 5388; Gaz. vol. 175; p. 933.
Teaching the reading of drawings, Chart for. S. Knapp. No. 1,049,241; Dec. 31; Gaz. vol. 185; p. 1325.
Teat-cup. A. Gillies. No. 1,024,847; Apr. 30; Sp. p. 6694; Gaz. vol. 177; p. 1178.
Teeth, Apparatus for making backing for. O. M. Polin. No. 1,019,519; Mar. 5; Sp. p. 1175; Gaz. vol. 176; p. 175.
Teeth articulator, Artificial-. M. Weiss. No. 1,022,055; Apr. 2; Sp. p. 646; Gaz. vol. 177; p. 103.
Teeth-fillings, Anchoring device for. A. F. Anderberg. No. 1,018,803; Feb. 27; Sp. p. 5723; Gaz. vol. 175; p. 987.
Teeth, Manufacture of cased metal pins for artificial. H. A. Edwards. No. 1,019,233; Mar. 5; Sp. p. 502; Gaz. vol. 176; p. 79.
Teething-finger. A. Dubay. No. 1,023,822; Apr. 23; Sp. p. 4363; Gaz. vol. 177; p. 788.
Telautograph. R. T. Frazier, Jr. No. 1,035,568; Aug. 13; Gaz. vol. 181; p. 426.
Telegram-blank. W. England. No. 1,028,695; June 4; Sp. p. 1345; Gaz. vol. 179; p. 209.
Telegraph, Acoustic optical. A. Sanandres. No. 1,025,427; May 7; Sp. p. 699; Gaz. vol. 178; p. 111.
Telegraph and telephone poles, Brace for cross-arms of. I. Cline. No. 1,048,496; Dec. 31; Gaz. vol. 185; p. 1068.
Telegraph and telephone system, Combined. C. L. Bopp. No. 1,044,981; Nov. 19; Gaz. vol. 184; p. 735.
Telegraph apparatus. E. Pope. No. 1,043,865; Nov. 12; Gaz. vol. 184; p. 319.
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Telegraph instrument. W. H. Engle. No. 1,049,066; Dec. 31; Gaz. vol. 185; p. 1266.
Telegraph instruments, &c., Apparatus for perforating tape for automatic. J. Gell. No. 1,038,343; Sept. 10; Gaz. vol. 182; p. 424.
Telegraph-key. J. E. Folsom. No. 1,017,398; Feb. 13; Sp. p. 2581; Gaz. vol. 175; p. 437.
Telegraph-key. G. V. Buquoi. No. 1,036,443; Aug. 20; Gaz. vol. 181; p. 764.
Telegraph, Printing-. B. Soldatencow. No. 1,034,405; July 30; Gaz. vol. 180; p. 1367.
Telegraph-repeater. G. L. Rawdon. No. 1,048,209; Dec. 24; Gaz. vol. 185; p. 933.
Telegraph sending-machine. J. A. Hullt. No. 1,017,054; Feb. 13; Sp. p. 1829; Gaz. vol. 175; p. 318.
Telegraph system. B. F. Thompson. No. 1,047,334; Dec. 17; Gaz. vol. 185; p. 606.
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Telegraph system, Multiplex-. J. F. D. Hoge. No. 1,030,780; June 25; Sp. p. 6179; Gaz. vol. 179; p. 1045.
Telegraph system, Multiplex-. M. M. Davis and A. J. Eaves. No. 1,045,953; Dec. 3; Gaz. vol. 185; p. 54.
Telegraph systems, Printer for multiplex printing-. D. Murray. No. 1,021,942; Apr. 2; Sp. p. 396; Gaz. vol. 177; p. 65.
Telegraph-transmitter. J. A. Cox and J. H. Kidwell. No. 1,019,883; Mar. 12; Sp. p. 1872; Gaz. vol. 176; p. 327.
Telegraph-transmitter. J. R. Jones. No. 1,025,471; May 7; Sp. p. 815; Gaz. vol. 178; p. 127.
Telegraph-transmitter. R. S. Welty. No. 1,031,752; July 9; Gaz. vol. 180; p. 356.
Telegraph transmitting-machine. F. D. Del Valle Atiles. No. 1,027,376; May 21; Sp. p. 5045; Gaz. vol. 178; p. 849.
Telegraphic apparatus, Electric. H. G. Martin. No. 1,042,457; Oct. 29; Gaz. vol. 183; p. 1069.
Telegraphic apparatus, Electric. H. G. Martin. No. 1,043,449; Nov. 5; Gaz. vol. 184; p. 141.
Telegraphic circuits, Method of and apparatus for transmitting signals over. L. M. Potts. No. 1,017,169; Feb. 13; Sp. p. 2086; Gaz. vol. 175; p. 359.
Telegraphic instrument. C. C. Ferguson. No. 1,030,509; June 25; Sp. p. 5368; Gaz. vol. 179; p. 949.
Telegraphic instrument. L. H. Jernigan. No. 1,039,410; Sept. 24; Gaz. vol. 182; p. 843.
Telegraphic relay. H. J. Archer. No. 1,041,718; Oct. 22; Gaz. vol. 183; p. 789.
Telegraphic stations, Protective apparatus for radio-. E. Girardeau. No. 1,035,958; Aug. 20; Gaz. vol. 181; p. 594.
Telegraphic system and apparatus. C. Kinsley. No. 1,018,115; Feb. 20; Sp. p. 4188; Gaz. vol. 175; p. 721.
Telegraphic-tape perforator. G. A. Arnold. No. 1,035,405; Aug. 13; Gaz. vol. 181; p. 371.
Telegraphic-tape perforator. E. E. Kleinschmidt. No. 1,045,855; Dec. 3; Gaz. vol. 185; p. 21.
Telegraphic-tape perforator, Keyboard. G. A. Arnold. No. 1,016,313; Feb. 6; Sp. p. 172; Gaz. vol. 175; p. 26.
Telegraphy. I. Kitsee. No. 1,037,927; Sept. 10; Gaz. vol. 182; p. 285.
Telegraphy. M. O. Anthony. No. 1,046,714; Dec. 10; Gaz. vol. 185; p. 360.
Telegraphy. C. M. Breedlove. No. 1,049,044; Dec. 31; Gaz. vol. 185; p. 1260.
Telegraphy and signaling, Apparatus for submarine. E. Kiupathy and C. Berger. No. 1,036,265; Aug. 20; Gaz. vol. 181; p. 703.
Telegraphy and telephony, Detector for wireless. R. F. Williams. No. 1,048,117; Dec. 24; Gaz. vol. 185; p. 903.
Telegraphy and telephony, Tuning device for wireless. W. E. D. Stokes, Jr., and G. W. Davis. No. 1,043,272; Nov. 5; Gaz. vol. 184; p. 80.
Telegraphy, Cable. I. Kitsee. No. 1,044,189; Nov. 12; Gaz. vol. 184; p. 430.
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Telegraphy, Mast for wireless. O. Fricke. No. 1,026,388; May 14; Sp. p. 2869; Gaz. vol. 178; p. 475.
Telegraphy, Occulting device for flash-lights for optical. E. L. P. Pailliard-Turenne. No. 1,025,015; Apr. 30; Sp. p. 7026; Gaz. vol. 177; p. 1234.
Telegraphy, Printing. I. Kitsee. No. 1,024,205; Apr. 23; Sp. p. 5254; Gaz. vol. 177; p. 921.
Telegraphy, Space. S. Cabot. No. 1,021,132; Mar. 26; Sp. p. 4511; Gaz. vol. 176; p. 832.
Telegraphy, System of multiple and simultaneous. F. Lori. No. 1,048,980; Dec. 31; Gaz. vol. 185; p. 1236.
Telegraphy, Wireless. R. A. Fessenden. No. 1,035,334; Aug. 13; Gaz. vol. 181; p. 345.
Telegraphy, Wireless. R. A. Fessenden. No. 1,045,781; Nov. 26; Gaz. vol. 184; p. 1045.
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Telemeter. O. Eppenstein. No. 1,022,358; Apr. 2; Sp. p. 1261; Gaz. vol. 177; p. 203.
Telemeter, Coincidence-. O. Eppenstein. No. 1,021,306; Mar. 26; Sp. p. 4880; Gaz. vol. 176; p. 891.
Telemotor-gear. J. Mackintosh. No. 1,039,157; Sept. 24; Gaz. vol. 182; p. 753.
Telephone. J. Lapicki. No. 1,015,034; Jan. 16; Sp. p. 4338; Gaz. vol. 174; p. 729.
Telephone. R. A. Boniventure. No. 1,022,175; Apr. 2; Sp. p. 896; Gaz. vol. 177; p. 143.
Telephone. C. C. Blackham. No. 1,022,350; Apr. 2; Sp. p. 1247; Gaz. vol. 177; p. 200.
Telephone. W. W. Dean. No. 1,036,805; Aug. 27; Gaz. vol. 181; p. 918.
Telephone. R. H. Lindal. No. 1,043,526; Nov. 5; Gaz. vol. 184; p. 172.
Telephone and alarm system, Combined. H. G. Webster. No. 1,025,347; May 7; Sp. p. 531; Gaz. vol. 178; p. 83.
Telephone and other poles, Mold for bases of. J. A. Garey. No. 1,022,231; Apr. 2; Sp. p. 1021; Gaz. vol. 177; p. 163.
Telephone and telegraph combination system. C. L. Bopp. No. 1,016,202; Jan. 30; Sp. p. 6796; Gaz. vol. 174; p. 1181.
Telephone and telegraph contact for movable bodies. H. F. Kunicki and M. Swiecicki. No. 1,025,701; May 7; Sp. p. 1315; Gaz. vol. 178; p. 204.
Telephone and telegraph relay or repeater. J. H. Cuntz. No. 1,038,301; Sept. 10; Gaz. vol. 182; p. 410.
Telephone and telegraphic installation, Inductive. H. von Kramer. No. 1,045,413; Nov. 26; Gaz. vol. 184; p. 913.
Telephone apparatus. D. H. Wilson. No. 1,015,255; Jan. 16; Sp. p. 4761; Gaz. vol. 174; p. 802.
Telephone apparatus. H. P. Clausen. No. 1,035,158; Aug. 13; Gaz. vol. 181; p. 283.
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Telephone attachment. G. L. Bennett. No. 1,013,112; Jan. 2; Sp. p. 35; Gaz. vol. 174; p. 8.
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Telephone attachment. W. A. Schmelz. No. 1,034,148; July 30; Gaz. vol. 180; p. 1277.
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Telephone attachment. D. W. Leppert. No. 1,042,933; Oct. 29; Gaz. vol. 183; p. 1234.
Telephone attachment. M. M. Reynolds. No. 1,047,293; Dec. 17; Gaz. vol. 185; p. 590.
Telephone-bell. L. McMinn. No. 1,045,725; Nov. 26; Gaz. vol. 184; p. 1026.
Telephone-booth. W. D. Carter. No. 1,043,043; Oct. 29; Gaz. vol. 183; p. 1273.
Telephone-booth. W. D. Carter. No. 1,043,055; Oct. 29; Gaz. vol. 183; p. 1277.
Telephone-bracket. E. P. Guthrie. No. 1,026,260; May 14; Sp. p. 2580; Gaz. vol. 178; p. 432.
Telephone-cabinet. G. W. Lancaster. No. 1,025,813; May 7; Sp. p. 1542; Gaz. vol. 178; p. 244.
Telephone cabinet or hood. G. W. Lancaster. No. 1,014,492; Jan. 9; Sp. p. 3082; Gaz. vol. 174; p. 512.
Telephone-call recorder. F. A. Lathrop. No. 1,034,807; Aug. 6; Gaz. vol. 181; p. 137.
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Telephone-call register. C. V. Richey. No. 1,037,053; Aug. 27; Gaz. vol. 181; p. 1001.
Telephone calling device. R. C. Nevin. No. 1,038,419; Sept. 10; Gaz. vol. 182; p. 451.
Telephone circuit and repeater, Automatic. C. Adams-Randall. No. 1,015,768; Jan. 30; Sp. p. 5901; Gaz. vol. 174; p. 1033.
Telephone circuit and repeating apparatus. C. Adams-Randall. No. 1,015,769; Jan. 30; Sp. p. 5903; Gaz. vol. 174; p. 1033.
Telephone, Coin-prepayment substation-. G. W. Lorimer. No. 1,047,667; Dec. 17; Gaz. vol. 185; p. 722.
Telephone-desk and book-support. G. J. Miller. No. 1,046,100; Dec. 3; Gaz. vol. 185; p. 104.
Telephone desk-stands, Terminal plate for. G. Nelson. No. 1,016,847; Feb. 6; Sp. p. 1355; Gaz. vol. 175; p. 209.
Telephone-directory. A. O. Johnson and J. A. Eby. No. 1,028,117; June 4; Sp. p. 46; Gaz. vol. 179; p. 11.
Telephone-disconnector. C. G. Fields. No. 1,016,131; Jan. 30; Sp. p. 6670; Gaz. vol. 174; p. 1159.
Telephone equipment. J. B. Briggs and V. P. Hall. No. 1,025,366; May 7; Sp. p. 578; Gaz. vol. 178; p. 90.
Telephone-exchange and fire-alarm system, Combined automatic. J. W. Lattig and C. L. Goodrum. No. 1,027,053; May 21; Sp. p. 4361; Gaz. vol. 178; p. 740.
Telephone-exchange, Automatic. G. W. Lorimer. No. 1,020,211; Mar. 12; Sp. p. 2573; Gaz. vol. 176; p. 437.
Telephone - exchange, Automatic. E. Neuhold. No. 1,033,725; July 23; Gaz. vol. 180; p. 1102.
Telephone-exchange system. H. G. Webster. No. 1,022,522; Apr. 9; Sp. p. 1619; Gaz. vol. 177; p. 288.
Telephone - exchange system. H. G. Webster. No. 1,023,185; Apr. 16; Sp. p. 3101; Gaz. vol. 177; p. 555.
Telephone - exchange system. E. E. Clement. No. 1,023,480; Apr. 16; Sp. p. 3676; Gaz. vol. 177; p. 651.
Telephone-exchange system. E. E. Clement. No. 1,024,487; Apr. 23; Sp. p. 5843; Gaz. vol. 177; p. 1016.
Telephone-exchange system. E. E. Clement. No. 1,027,239; May 21; Sp. p. 4771; Gaz. vol. 178; p. 803.
Telephone-exchange system. J. L. Wright. No. 1,027,392; May 21; Sp. p. 5081; Gaz. vol. 178; p. 855.
Telephone - exchange system. E. E. Clement. No. 1,029,577; June 11; Sp. p. 3258; Gaz. vol. 179; p. 547.
Telephone-exchange system. E. R. Corwin. No. 1,033,877; July 30; Gaz. vol. 180; p. 1181.
Telephone-exchange system. E. E. Clement. No. 1,036,961; Aug. 27; Gaz. vol. 181; p. 969.
Telephone - exchange system. E. E. Clement. No. 1,037,438; Sept. 3; Gaz. vol. 182; p. 89.
Telephone-exchange system. R. H. Manson. No. 1,038,617; Sept. 17; Gaz. vol. 182; p. 554.
Telephone-exchange system. E. R. Corwin. No. 1,040,634; Oct. 8; Gaz. vol. 183; p. 360.
Telephone-exchange system. W. W. Dean. No. 1,044,865; Nov. 19; Gaz. vol. 184; p. 695.
Telephone-exchange system. E. E. Clement. No. 1,045,515; Nov. 26; Gaz. vol. 184; p. 951.
Telephone-exchange system, Automatic. G. Deakin. No. 1,024,184; Apr. 23; Sp. p. 5194; Gaz. vol. 177; p. 913.
Telephone-exchange systems, Connecting-circuit for magneto. E. H. Colpitts. No. 1,029,593; June 18; Sp. p. 3305; Gaz. vol. 179; p. 587.
Telephone-exchange systems, Emergency signaling device for. I. D. Fellows. No. 1,039,667; Sept. 24; Gaz. vol. 182; p. 933.
Telephone - exchange systems, Revertive - call - indicating means for. A. M. Bullard. No. 1,026,199; May 14; Sp. p. 2449; Gaz. vol. 178; p. 411.
Telephone-exchanges, Apparatus for automatically connecting up the subscribers of. J. Pětický. No. 1,047,833; Dec. 17; Gaz. vol. 185; p. 779.
Telephone exchanges, Apparatus for metering conversations in automatic. G. Grabe. No. 1,020,976; Mar. 26; Sp. p. 4197; Gaz. vol. 176; p. 780.
Telephone-exchanges, Selector for automatic. B. Settegast. No. 1,015,644; Jan. 23; Sp. p. 5632; Gaz. vol. 174; p. 964.
Telephone-exchanges, Selector for automatic. B. Settegast. 1,038,213; Sept. 10; Gaz. vol. 182; p. 379.
Telephone-exchanges, Signal-transmitter for. G. W. Lorimer. No. 1,024,088; Apr. 23; Sp. p. 4966; Gaz. vol. 177; p. 879.
Telephone - holder. M. Milewski. No. 1,029,390; June 11; Sp. p. 2890; Gaz. vol. 179; p. 483.
Telephone-holder. R. M. Vick. No. 1,046,689; Dec. 10; Gaz. vol. 185; p. 350.
Telephone installation. H. O. Kabitzsch. No. 1,030,308; June 25; Sp. p. 4901; Gaz. vol. 179; p. 875.
Telephone instrument. W. P. Stunz. No. 1,030,550; June 25; Sp. p. 5482; Gaz. vol. 179; p. 962.
Telephone instrument. M. M. Reynolds. No. 1,047,294; Dec. 17; Gaz. vol. 185; p. 591.
Telephone instrument, Automatic. J. Weil. No. 1,018,646; Feb. 27; Sp. p. 5390; Gaz. vol. 175; p. 934.
Telephone-instrument-locking device, Adjustable. C. H. Bard. No. 1,042,188; Oct. 22; Gaz. vol. 183; p. 949.
Telephone-line listening-detector. E. and C. Burgener. No. 1,016,670; Feb. 6; Sp. p. 1003; Gaz. vol. 175; p. 151.
Telephone-line selective-switch device. J. H. Swanson. No. 1,035,493; Aug. 13; Gaz. vol. 181; p. 400.
Telephone-lines, Apparatus for increasing the efficiency of. C. Adams-Randall. No. 1,017,617; Feb. 13; Sp. p. 3017; Gaz. vol. 175; p. 510.
Telephone-lines. Busy-test system for. F. R. McBerty. No. 1,045,306; Nov. 26; Gaz. vol. 184; p. 876.
Telephone-meter. E. H. Martin. No. 1,018,435; Feb. 27; Sp. p. 4872; Gaz. vol. 175; p. 863.
Telephone-meter. R. B. Head. No. 1,042,790; Oct. 29; Gaz. vol. 183; p. 1186.
Telephone-meter. G. Deakin. No. 1,045,820; Dec. 3; Gaz. vol. 185; p. 9.
Telephone metering system. G. Babcock. No. 1,019,879; Mar. 12; Sp. p. 1856; Gaz. vol. 176; p. 326.
Telephone-mouthpiece, Antiseptic. F. C. Tabler. No. 1,026,414; May 14; Sp. p. 2929; Gaz. vol. 178; p. 485.
Telephone - mouthpiece, Antiseptic. C. V. Fuller. No. 1,032,596; July 16; Gaz. vol. 180; p. 686.
Telephone-mouthpiece, Sanitary. C. V. Fuller. No. 1,026,503; May 14; Sp. p. 3113; Gaz. vol. 178; p. 514.
Telephone-mouthpiece sanitary device. G. S. Bennett. No. 1,047,120; Dec. 10; Gaz. vol. 185; p. 496.
Telephone or telegraph poles, Cross-arm for. J. R. Ferringer. No. 1,021,831; Apr. 2; Sp. p. 182; Gaz. vol. 177; p. 30.
Telephone pay-station. G. A. Long. No. 1,028,945; June 11; Sp. p. 1907; Gaz. vol. 179; p. 330.
Telephone-pay-station cabinet. H. I. Wiechers. No. 1,019,574; Mar. 5; Sp. p. 1276; Gaz. vol. 176; p. 191.
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Telephone-receiver. W. W. Dean. No. 1,021,920; Apr. 2; Sp. p. 352; Gaz. vol. 177; p. 58.
Telephone-receiver. S. G. McMeen. No. 1,027,494; May 28; Sp. p. 5285; Gaz. vol. 178; p. 926.
Telephone-receiver. C. N. Church. No. 1,030,872; July 2; Gaz. vol. 180; p. 8.
Telephone-receiver. C. T. Mason. No. 1,031,947; July 9; Gaz. vol. 180; p. 423.
Telephone-receiver. J. Halldow. No. 1,033,098; July 23; Gaz. vol. 180; p. 895.
Telephone-receiver. L. W. Carroll. No. 1,034,200; July 30; Gaz. vol. 180; p. 1294.
Telephone-receiver. S. P. Grace. No. 1,035,577; Aug. 13; Gaz. vol. 181; p. 429.
Telephone-receiver. C. Adams-Randall. No. 1,044,117; Nov. 12; Gaz. vol. 184; p. 406.
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Telephone-receiver casings, Spreader for. P. M. Cox. No. 1,046,984; Dec. 10; Gaz. vol. 185; p. 450.
Telephone-receiver holder. F. H. Goss. No. 1,031,360; July 9; Gaz. vol. 180; p. 563.
Telephone-receiver holder. S. C. Sladden. No. 1,040,796; Oct. 8; Gaz. vol. 183; p. 413.
Telephone-receiver holder. W. D. Miller. No. 1,042,811; Oct. 29; Gaz. vol. 183; p. 1193.
Telephone-receiver shell. J. F. Barbour. No. 1,029,524; June 11; Sp. p. 3147; Gaz. vol. 179; p. 528.
Telephone-receiver shell. F. O. Richey. No. 1,033,938; July 30; Gaz. vol. 180; p. 1203.
Telephone - receivers, Adjustable support for. H. G. Schwager. No. 1,029,640; June 18; Sp. p. 3397; Gaz. vol. 179; p. 605.
Telephone relay or repeater. C. D. Morris. No. 1,033,114; July 23; Gaz. vol. 180; p. 900.
Telephone-repeater. N. G. Warth. No. 1,022,519; Apr. 9; Sp. p. 1606; Gaz. vol. 177; p. 287.

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Telephone repeater system. H. B. Stone. No. 1,025,167; May 7; Sp. p. 125; Gaz. vol. 178; p. 22.
Telephone repeating apparatus and circuits. C. Adams-Randall. No. 1,017,616; Feb. 13; Sp. p. 3015; Gaz. vol. 175; p. 510.
Telephone repeating system. C. Adams-Randall. No. 1,015,414; Jan. 23; Sp. p. 5140; Gaz. vol. 174; p. 883.
Telephone repeating system and apparatus. C. Adams-Randall. No. 1,018,226; Feb. 20; Sp. p. 4422; Gaz. vol. 175; p. 760.
Telephone ringing apparatus. W. E. Butler. No. 1,016,546; Feb. 6; Sp. p. 737; Gaz. vol. 175; p. 109.
Telephone sanitary guard. G. S. Bennett. No. 1,047,121; Dec. 10; Gaz. vol. 185; p. 497.
Telephone selecting device. F. E. Granger. No. 1,017,967; Feb. 20; Sp. p. 3862; Gaz. vol. 175; p. 669.
Telephone selective apparatus, Party-. D. W. Kneisly. No. 1,044,538; Nov. 19; Gaz. vol. 184; p. 581.
Telephone-service meter. A. M. Crichton. No. 1,025,378; May 7; Sp. p. 607; Gaz. vol. 178; p. 94.
Telephone signaling apparatus. F. D. Powell. No. 1,045,077; Nov. 19; Gaz. vol. 184; p. 768.
Telephone-stand. H. W. Schussler. No. 1,030,684; June 25; Sp. p. 5913; Gaz. vol. 179; p. 1011.
Telephone-support. W. Kaisling. No. 1,035,355; Aug. 13; Gaz. vol. 181; p. 354.
Telephone-switchboard. E. S. McLarn. No. 1,039,774; Oct. 1; Gaz. vol. 183; p. 35.
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Telephone system. W. W. Dean. No. 1,013,865; Jan. 9; Sp. p. 1726; Gaz. vol. 174; p. 298.
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Telephone system. S. L. Van Akin, Jr. No. 1,021,494; Mar. 26; Sp. p. 5311; Gaz. vol. 176; p. 957.
Telephone system. F. C. Unger. No. 1,022,713; Apr. 9; Sp. p. 2069; Gaz. vol. 177; p. 356.
Telephone system. H. G. Webster. No. 1,023,900; Apr. 23; Sp. p. 4565; Gaz. vol. 177; p. 814.
Telephone system. H. P. Clausen. No. 1,024,498; Apr. 30; Sp. p. 5895; Gaz. vol. 177; p. 1054.
Telephone system. E. R. Hobbs. No. 1,025,269; May 7; Sp. p. 350; Gaz. vol. 178; p. 57.
Telephone system. J. G. Mitchell. No. 1,025,477; May 7; Sp. p. 827; Gaz. vol. 178; p. 129.
Telephone system. F. R. Parker. No. 1,026,328; May 14; Sp. p. 2730; Gaz. vol. 178; p. 456.
Telephone system. O. M. Leich. No. 1,027,485; May 28; Sp. p. 5266; Gaz. vol. 178; p. 923.
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Telephone system. E. R. Corwin. No. 1,030,505; June 25; Sp. p. 5357; Gaz. vol. 179; p. 946.
Telephone system. A. H. Weiss. No. 1,033,135; July 23; Gaz. vol. 180; p. 908.
Telephone system. H. P. Clausen. No. 1,034,875; Aug. 6; Gaz. vol. 181; p. 160.
Telephone system. H. P. Clausen. No. 1,035,157; Aug. 13; Gaz. vol. 181; p. 282.
Telephone system. H. P. Clausen. No. 1,035,159; Aug. 13; Gaz. vol. 181; p. 283.
Telephone system. A. H. Dyson. No. 1,035,172; Aug. 13; Gaz. vol. 181; p. 288.
Telephone system. J. Kennedy. No. 1,037,636; Sept. 3; Gaz. vol. 182; p. 154.
Telephone system. H. G. Webster. No. 1,038,037; Sept. 10; Gaz. vol. 182; p. 322.
Telephone system. H. G. Webster. No. 1,038,997; Sept. 17; Gaz. vol. 182; p. 685.
Telephone system. E. R. Corwin. No. 1,040,629; Oct. 8; Gaz. vol. 183; p. 356.
Telephone system. E. R. Corwin. No. 1,040,630; Oct. 8; Gaz. vol. 183; p. 357.
Telephone system. E. R. Corwin. No. 1,040,632; Oct. 8; Gaz. vol. 183; p. 358.
Telephone system. E. R. Corwin. No. 1,040,653; Oct. 8; Gaz. vol. 183; p. 359.
Telephone system. C. C. Bradbury. No. 1,042,389; Oct. 29; Gaz. vol. 183; p. 1043.
Telephone system. H. P. Clausen. No. 1,043,299; Nov. 5; Gaz. vol. 184; p. 90.
Telephone system. H. P. Clausen. No 1,043,300; Nov. 5; Gaz. vol. 184; p. 90.
Telephone system. H. P. Clausen. No. 1,043,301; Nov. 5; Gaz. vol. 184; p. 91.
Telephone system. C. L. Goodrum. No. 1,043,314; Nov. 5; Gaz. vol. 184; p. 97.
Telephone system. H. P. Clausen. No. 1,044,747; Nov. 19; Gaz. vol. 184; p. 654.
Telephone system. H. P. Clausen. No. 1,044,748; Nov. 19; Gaz. vol. 184; p. 655.
Telephone system. E. R. Hobbs. No. 1,045,845; Dec. 3; Gaz. vol. 185; p. 17.
Telephone system, Automatic. E. Neuhold. No. 1,044,229; Nov. 12; Gaz. vol. 184; p. 444.
Telephone system, Automatic. E. Blos. No. 1,046,952; Dec. 10; Gaz. vol. 185; p. 440.
Telephone-system busy-test. E. R. Corwin. No. 1,040,631; Oct. 8; Gaz. vol. 183; p. 358.
Telephone system, Central-energy. C. L. Goodrum. No. 1,045,546; Nov. 26; Gaz. vol. 184; p. 963.
Telephone system, Multiple repeating. C. Adams-Randall. No. 1,015,770; Jan. 30; Sp. p. 5905; Gaz. vol. 174; p. 1033.
Telephone system, Party-line. A. Marchand. No. 1,013,412; Jan. 2; Sp. p. 705; Gaz. vol. 174; p. 112.
Telephone system, Party-line. W. W. Hawkins. No. 1,030,089; June 18; Sp. p. 4409; Gaz. vol. 179; p. 761.
Telephone system, Party-line. H. P. Clausen. No. 1,041,965; Oct. 22; Gaz. vol. 183; p. 876.
Telephone system, Selective. W. F. Marten. No. 1,029,504; June 11; Sp. p. 3111; Gaz. vol. 179; p. 522.
Telephone system, Trunking. A. H. Dyson. No. 1,043,306; Nov. 5; Gaz. vol. 184; p. 93.
Telephone systems, Cable-terminal box for. T. B. Farmer. No. 1,033,065; July 16; Gaz. vol. 180; p. 846.
Telephone systems, Electrical switching apparatus for. E. E. Clement. No. 1,029,591; June 18; Sp. p. 3295; Gaz. vol. 179; p. 586.
Telephone systems, Registering device for. E. M. Northum. No. 1,018,981; Feb. 27; Sp. p. 6103; Gaz. vol. 175; p. 1049.
Telephone toll apparatus. E. P. Baird. No. 1,015,280; Jan. 23; Sp. p. 4826; Gaz. vol. 174; p. 837.
Telephone transmission system. J. C. R. Palmer. No. 1,045,600; Nov. 26; Gaz. vol. 184; p. 981.
Telephone-transmitter. C. R. Rogers. No. 1,018,082; Feb. 20; Sp. p. 4117; Gaz. vol. 175; p. 710.
Telephone-transmitter. F. Gottschalk. No. 1,018,182; Feb. 20; Sp. p. 4344; Gaz. vol. 175; p. 745.
Telephone-transmitter. M. Moloney. No. 1,022,253; Apr. 2; Sp. p. 1058; Gaz. vol. 177; p. 169.
Telephone-transmitter. G. R. Morris. No. 1,030,915; July 2; Gaz. vol. 180; p. 22.
Telephone-transmitter. R. Royal. No. 1,040,637; Oct. 8; Gaz. vol. 183; p. 361.
Telephone-transmitter. F. Gottschalk. No. 1,045,968; Dec. 3; Gaz. vol. 185; p. 59.
Telephone-transmitter. F. Gottschalk. No. 1,045,969; Dec. 3; Gaz. vol. 185; p. 60.
Telephone-transmitter. D. H. Wilson. No. 1,048,253; Dec. 24; Gaz. vol. 185; p. 946.
Telephone-transmitter mouthpiece. C. H. Swingle and A. M. Miltenberg. No. 1,018,730; Feb. 27; Sp. p. 5560; Gaz. vol. 175; p. 962.
Telephone-transmitter, Multiple. C. E. Egnér and J. G. Holmström. No. 1,023,557; Apr. 16; Sp. p. 3829; Gaz. vol. 177; p. 676.
Telephone-transmitter sanitary shield. R. W. Bogart, Jr. No. 1,044,480; Nov. 19; Gaz. vol. 184; p. 560.
Telephone transmitter, Wireless-. J. P. McCarty, K. Douglas, and F. P. Herrguth. No. 1,044,798; Nov. 19; Gaz. vol. 184; p. 673.
Telephone-transmitters, Carbon-grain cells of. C. E. Egnér and J. G. Holmström. No. 1,042,772; Oct. 29; Gaz. vol. 183; p. 1180.
Telephone-transmitters, Sanitary protector for. C. Adams. No. 1,017,362; Feb. 13; Sp. p. 2504; Gaz. vol. 175; p. 425.
Telephone-transmitters, Secondary mouthpiece for. S. S. Williamson. No. 1,041,545; Oct. 15; Gaz. vol. 183; p. 697.
Telephone trunking system. F. M. Davis. No. 1,026,850; May 21; Sp. p. 3870; Gaz. vol. 178; p. 668.
Telephone use, Portable face-mask for. L. C. Stockton. No. 1,021,434; Mar. 26; Sp. p. 5177; Gaz. vol. 176; p. 937.
Telephone wall set. R. H. Manson. No. 1,033,817; July 30; Gaz. vol. 180; p. 1160.
Telephones, Conversations-counter for. K. Born. No. 1,014,634; Jan. 16; Sp. p. 3446; Gaz. vol. 174; p. 592.
Telephones, Detector for party-line. H. Y. Haley. No. 1,024,131; Apr. 23; Sp. p. 5087; Gaz. vol. 177; p. 895.
Telephones, Lock-out device for party-. D. W. Kneisly. No. 1,016,277; Feb. 6; Sp. p. 91; Gaz. vol. 175; p. 15.
Telephones, &c., Ringer for. H. J. Roberts. No. 1,037,537; Sept. 3; Gaz. vol. 182; p. 122.
Telephones, Sanitary device for. I. P. Mills. No. 1,045,310; Nov. 26; Gaz. vol. 184; p. 877.
Telephones, Sanitary mouthpiece for. M. M. Marcuse. No. 1,017,680; Feb. 20; Sp. p. 3152; Gaz. vol. 175; p. 568.
Telephonic and telegraphic system, Combined. R. E. Gill, No. 1,021,717; Mar. 26; Sp. p. 5731; Gaz. vol. 176; p. 1030.
Telephonic apparatus. E. A. Graham. No. 1,020,898; Mar. 19; Sp. p. 4020; Gaz. vol. 176; p. 701.
Telephonic apparatus. E. A. Graham. No. 1,047,788; Dec. 17; Gaz. vol. 185; p. 764.
Telephonic instrument, including transmitters. W. P. Stunz. No. 1,030,551; June 25; Sp. p. 5484; Gaz. vol. 179; p. 962.

Alphabetical list of inventions—Continued.

Telephonic or audiphonic systems, Transmitter for. H. G. Pape. No. 1,025,992; May 14; Sp. p. 1962; Gaz. vol. 178; p. 339.
Telephonic transmitting appliance. J. K. Rhodes. No. 1,039,443; Sept. 24; Gaz. vol. 182; p. 855.
Telephony. E. R. Corwin. No. 1,030,504; June 25; Sp. p. 5351; Gaz. vol. 179; p. 946.
Telephony. C. A. Bals. No. 1,040,635; Oct. 8; Gaz. vol. 183; p. 361.
Telephony. C. A. Bals. No. 1,040,636; Oct. 8; Gaz. vol. 183; p. 361.
Telephony. M. L. Johnson. No. 1,045,034; Nov. 19; Gaz. vol. 184; p. 754.
Telephony or telegraphy. S. G. Brown. No. 1,048,443; Dec. 24; Gaz. vol. 185; p. 1011.
Telescope. J. Hartness. No. 1,045,142; Nov. 26; Gaz. vol. 184; p. 819.
Telescope. E. G. Murphy. No. 1,048,570; Dec. 31; Gaz. vol. 185; p. 1093.
Telescope, Binocular. G. Meckbach. No. 1,037,505; Sept. 3; Gaz. vol. 182; p. 112.
Telescope-carrier. O. Mackensen. No. 1,032,011; July 9; Gaz. vol. 180; p. 444.
Telescope, Engineer's. C. L. Berger. No. 1,016,606; Feb. 6; Sp. p. 866; Gaz. vol. 175; p. 129.
Telescope, Hinged double. A. Steinle. No. 1,022,340; Apr. 2; Sp. p. 1229; Gaz. vol. 177; p. 196.
Telescope-level. H. L. Cole. No. 1,032,379; July 16; Gaz. vol. 180; p. 614.
Telescope, Lookout-. A. König. No. 1,034,804; Aug. 6; Gaz. vol. 181; p. 136.
Telescope, Prismatic. G. Griffith. No. 1,016,562; Feb. 6; Sp. p. 772; Gaz. vol. 175; p. 113.
Telescope-spectacle glass. M. von Rohr. No. 1,028,281; June 4; Sp. p. 476; Gaz. vol. 179; p. 69.
Telescope, Tachometric. H. Wild. No. 1,016,311; Feb. 6; Sp. p. 169; Gaz. vol. 175; p. 26.
Telescope, theater and field glass, Prismatic. J. H. Barton. No. 1,016,315; Feb. 6; Sp. p. 179; Gaz. vol. 175; p. 27.
Telescopic stand. J. Franke. No. 1,048,143; Dec. 24; Gaz. vol. 185; p. 912.
Telescoping chair, Pocket. J. T. Hay. No. 1,035,824; Aug. 13; Gaz. vol. 181; p. 511.
Tellurian. I. F. Bodle. No. 1,019,750; Mar. 12; Sp. p. 1611; Gaz. vol. 176; p. 282.
Tellurian. I. N. Matlick. No. 1,019,981; Mar. 12; Sp. p. 2078; Gaz. vol. 176; p. 358.
Tellurian. G. T. Huff. No. 1,028,355; June 4; Sp. p. 642; Gaz. vol. 179; p. 96.
Tellurian. D. E. Brandt. No. 1,045,807; Dec. 3; Gaz. vol. 185; p. 4.
Tellurian. D. E. Brandt. No. 1,045,808; Dec. 3; Gaz. vol. 185; p. 4.
Telpher-cars, Device for lifting and lowering. H. Müller. No. 1,034,137; July 30; Gaz. vol. 180; p. 1273.
Temperature-alarm. W. C. Elsacer. No. 1,042,539; Oct. 29; Gaz. vol. 183; p. 1098.
Temperature-alarm. C. F. Rumold, J. P. Faulkner, and J. W. Dinsmore. No. 1,048,349; Dec. 24; Gaz. vol. 185; p. 979.
Temperature and humidity, Apparatus for controlling. W. Taylor, R. E. Atkinson, and D. M. Nesbit. No. 1,017,345; Feb. 13; Sp. p. 2466; Gaz. vol. 175; p. 419.
Temperature bath, Constant-. T. B. Freas. No. 1,024,565; Apr. 30; Sp. p. 6091; Gaz. vol. 177; p. 1078.
Temperature control, Compensating system of. H. G. Geissinger. No. 1,022,188; Apr. 2; Sp. p. 921; Gaz. vol. 177; p. 147.
Temperature control, Remote. H. G. Geissinger. No. 1,022,189; Apr. 2; Sp. p. 924; Gaz. vol. 177; p. 148.
Temperature-controller. F. W. Penn. No. 1,014,511; Jan. 9; Sp. p. 3119; Gaz. vol. 174; p. 518.
Temperature-controller, Electrothermostatic. B. F. Teal. No. 1,045,638; Nov. 26; Gaz. vol. 184; p. 995.
Temperature-controlling apparatus. A. MacPhee. No. 1,038,402; Sept. 10; Gaz. vol. 182; p. 444.
Temperature-generating apparatus, High-. W. C. Finck. No. 1,013,593; Jan. 2; Sp. p. 1088; Gaz. vol. 174; p. 175.
Temperature-indicating instrument. A. N. Ozias. No. 1,038,426; Sept. 10; Gaz. vol. 182; p. 454.
Temperature-recorder, Electrical. M. E. Taylor. No. 1,047,855; Dec. 17; Gaz. vol. 185; p. 787.
Temperature-regulating apparatus. J. M. Larson. No. 1,019,496; Mar. 5; Sp. p. 1135; Gaz. vol. 176; p. 167.
Temperature-regulating device. A. J. Kercher. No. 1,047,536; Dec. 17; Gaz. vol. 185; p. 675.
Temperature-regulator, Automatic. M. F. Murray. No. 1,015,204; Jan. 16; Sp. p. 4654; Gaz. vol. 174; p. 785.
Temperature-regulator, Automatic. H. Hohlmann, Jr. No. 1,036,116; Aug. 20; Gaz. vol. 181; p. 649.
Tempo-regulator. E. Lundberg. No. 1,016,839; Feb. 6; Sp. p. 1339; Gaz. vol. 175; p. 207.
Tempo-regulator. J. O'Connor. No. 1,041,861; Oct. 22; Gaz. vol. 183; p. 841.
Tempo-regulator, Automatic. W. H. Rees. No. 1,032,624; July 16; Gaz. vol. 180; p. 696.
Tender coal-gate. M. A. Smith and T. J. Thornton. No. 1,048,222; Dec. 24; Gaz. vol. 185; p. 937.
Tender end sill. C. T. Westlake. No. 1,027,784; May 28; Sp. p. 5874; Gaz. vol. 178; p. 1022.
Tenders, Automatic coal-feed for moving coal-. C. Hocker and B. Wendholt. No. 1,023,935; Apr. 23; Sp. p. 4652; Gaz. vol. 177; p. 827.
Tennis-court corner-marker. A. Johnson. No. 1,037,147; Aug. 27; Gaz. vol. 181; p. 1032.
Tennis nets, Stretching device for lawn-. W. S. Edwards. No. 1,023,928; Apr. 23; Sp. p. 4631; Gaz. vol. 177; p. 824.
Tenon-machine gage. H. E. Hessler and F. W. Bast. No. 1,020,422; Mar. 19; Sp. p. 2997; Gaz. vol. 176; p. 543.
Tenon-machine gage. J. T. Zika. No. 1,043,285; Nov. 5; Gaz. vol. 184; p. 84.
Tension-controlling apparatus. A. Cook. No. 1,033,546; July 23; Gaz. vol. 180; p. 1044.
Tension device. A. Rieffel. No. 1,014,256; Jan. 9; Sp. p. 2599; Gaz. vol. 174; p. 433.
Tension device. A. Crawford. No. 1,021,919; Apr. 2; Sp. p. 350; Gaz. vol. 177; p. 58.
Tension device. G. Sipp. No. 1,022,512; Apr. 9; Sp. p. 1594; Gaz. vol. 177; p. 285.
Tension device. G. Singleton. No. 1,024,605; Apr. 30; Sp. p. 6188; Gaz. vol. 177; p. 1092.
Tension device. J. O. McKean. No. 1,024,800; Apr. 30; Sp. p. 6599; Gaz. vol. 177; p. 1160.
Tension device. B. F. Mayo. No. 1,028,474; June 4; Sp. p. 912; Gaz. vol. 179; p. 137.
Tension device. H. D. Madden. No. 1,046,822; Dec. 10; Gaz. vol. 185; p. 396.
Tension device. C. Ryden. No. 1,048,889; Dec. 31; Gaz. vol. 185; p. 1205.
Tension device, Elastic. J. C. Hodges. No. 1,020,553; Mar. 19; Sp. p. 3280; Gaz. vol. 176; p. 586.
Tent. S. W. Dorsey. No. 1,045,132; Nov. 26; Gaz. vol. 184; p. 816.
Tent-poles, Bail-ring for. J. Renner. No. 1,019,991; Mar. 12; Sp. p. 2099; Gaz. vol. 176; p. 362.
Terminal-attachment-engaging device. J. E. Schaefer, Jr. No. 1,024,601; Apr. 30; Sp. p. 6180; Gaz. vol. 177; p. 1090.
Terminal box. P. Hogan. No. 1,041,473; Oct. 15; Gaz. vol. 183; p. 674.
Terminal clip. V. H. Keller. No. 1,025,573; May 7; Sp. p. 1051; Gaz. vol. 178; p. 162.
Terminal clip. P. C. Hains, Jr. No. 1,029,499; June 11; Sp. p. 3103; Gaz. vol. 179; p. 521.
Terminal, Connecting-. A. J. Allen. No. 1,040,107; Oct. 1; Gaz. vol. 183; p. 146.
Terminal fastening. A. Schmidt. No. 1,029,721; June 18; Sp. p. 3599; Gaz. vol. 179; p. 634.
Terminal for branch lines of different cross-section. H. Starcke. No. 1,045,626; Nov. 26; Gaz. vol. 184; p. 991.
Terminal structure. C. W. Davis. No. 1,021,453; Mar. 26; Sp. p. 5218; Gaz. vol. 176; p. 943.
Test-indicator, Universal. L. W. Zuegner and A. V. Langsdon. No. 1,019,400; Mar. 5; Sp. p. 929; Gaz. vol. 176; p. 135.
Test-tube heater. J. I. Ayer. No. 1,043,561; Nov. 5; Gaz. vol. 184; p. 185.
Testing apparatus. F. Schreidt. No. 1,025,163; May 7; Sp. p. 110; Gaz. vol. 178; p. 20.
Testing apparatus. F. F. Beall. No. 1,044,121; Nov. 12; Gaz. vol. 184; p. 407.
Testing device. C. G. Fulmer. No. 1,027,834; May 28; Sp. p. 5997; Gaz. vol. 178; p. 1040.
Testing instrument. B. D. Coppage. No. 1,037,596; Sept. 3; Gaz. vol. 182; p. 140.
Testing-jack. R. T. Wingo. No. 1,029,163; June 11; Sp. p. 2373; Gaz. vol. 179; p. 404.
Testing-machine. M. Cornine. No. 1,016,322; Feb. 6; Sp. p. 197; Gaz. vol. 175; p. 30.
Testing-machine. W. W. Duncan. No. 1,045,825; Dec. 3; Gaz. vol. 185; p. 10.
Testing machine, Material-. B. Schiller. No. 1,033,623; July 23; Gaz. vol. 180; p. 1070.
Textile apparatus. H. L. Brown. No. 1,016,394; Feb. 6; Sp. p. 351; Gaz. vol. 175; p. 56.
Textile fibers, such as jute, hemp, flax, and the like, Treating raw and worked. R. Schreckenbach. No. 1,017,176; Feb. 13; Sp. p. 2105; Gaz. vol. 175; p. 361.
Textile machinery, Manufacture of covers for rollers used in. R. and W. Warwick and A. Reason. No. 1,044,956; Nov. 19; Gaz vol. 184; p. 726.
Textile material, Apparatus for conditioning. I. E. Palmer. No. 1,033,925; July 30; Gaz. vol. 180; p. 1198.
Textile material, Conditioning. I. E. Palmer. No. 1,033,926; July 30; Gaz. vol. 180; p. 1199.
Textile roll. W. M. Rossiter. No. 1,026,226; May 14; Sp. p. 2511; Gaz. vol. 178; p. 420.
Textiles in the form of threads, cords, hanks, and fabrics, Apparatus for the treatment of. F. Jaumandren. No. 1,017,547; Feb. 13; Sp. p. 2893; Gaz. vol. 175; p. 488.
Thawing apparatus. W. S. Newhall, S. W. Linn, and A. C. Hezlep. No. 1,044,230; Nov. 12; Gaz. vol. 184; p. 444.
Theater appliance. J. Lear. No. 1,015,041; Jan. 16; Sp. p. 4349; Gaz. vol. 174; p. 731.
Theater-chair. W. J. and F. R. Leonard. No. 1,041,108; Oct. 15; Gaz. vol. 183; p. 552.
Theater moving platform. J. A. H. Raymond. No. 1,040,411; Oct. 8; Gaz. vol. 183; p. 278.

Alphabetical list of inventions—Continued.

Theaters, Means for handling hanging scenery in. S. G. Bailey. No. 1,027,028; May 21; Sp. p. 4304; Gaz. vol. 178; p. 731.
Theaters, Mechanism for handling hanging scenery in. S. G. Bailey. No. 1,027,027; May 21; Sp. p. 4297; Gaz. vol. 178; p. 731.
Theaters, Stage-setting for. J. C. Spikes. No. 1,027,922; May 28; Sp. p. 6233; Gaz. vol. 178; p. 1070.
Theatrical apparatus. J. W. Frakes. No. 1,040,303; Oct. 8; Gaz. vol. 183; p. 242.
Theatrical appliance. E. H. Amet. No. 1,040,109; Oct. 1; Gaz. vol. 183; p. 146.
Theatrical aquatic apparatus. J. Thompson. No. 1,041,374; Oct. 15; Gaz. vol. 183; p. 641.
Theatrical device. F. W. Golby and J. S. Patterson. No. 1,045,138; Nov. 26; Gaz. vol. 184; p. 817.
Theatrical illusion apparatus. W. Hanlon. No. 1,035,435; Aug. 13; Gaz. vol. 181; p. 380.
Theatrical purposes, Method and apparatus for. D. W. Troy. No. 1,025,338; May 7; Sp. p. 511; Gaz. vol. 178; p. 80.
Theatrical-stage appliance. J. E. Smith. No. 1,031,880; July 9; Gaz. vol. 180; p. 401.
Therapeutic device. S. T. Yount. No. 1,043,187; Nov. 5; Gaz. vol. 184; p. 51.
Therapeutic device for the treatment of the eyes or ears. A. W. Stephens. No. 1,020,724; Mar. 19; Sp. p. 3665; Gaz. vol. 176; p. 645.
Thermal cut-out. J. Sachs. No. 1,014,098; Jan. 9; Sp. p. 2253; Gaz. vol. 174; p. 377.
Thermodynamic motor. L. A. Haines. No. 1,025,869; May 7; Sp. p. 1666; Gaz. vol. 178; p. 262.
Thermodynamic motor. L. A. Haines. No. 1,037,757; Sept. 3; Gaz. vol. 182; p. 194.
Thermolocomotive. A. Lipetz. No. 1,047,129; Dec. 10; Gaz. vol. 185; p. 500.
Thermometer. H. L. Balderston. No. 1,014,800; Jan. 16; Sp. p. 3809; Gaz. vol. 174; p. 648.
Thermometer. R. Dunwody. No. 1,018,306; Feb. 20; Sp. p. 4579; Gaz. vol. 175; p. 786.
Thermometer. C. S. Ruckstuhl. No. 1,034,735; Aug. 6; Gaz. vol. 181; p. 111.
Thermometer. J. Cowling. No. 1,038,530; Sept. 17; Gaz. vol. 182; p. 523.
Thermometer-case. J. B. Young. No. 1,031,901; July 9; Gaz. vol. 180; p. 408.
Thermometer-case. W. R. Archibald. No. 1,037,102; Aug. 27; Gaz. vol. 181; p. 1018.
Thermometer case, Clinical-. G. H. Zeal. No. 1,019,289; Mar. 5; Sp. p. 631; Gaz. vol. 176; p. 99.
Thermometer casing, Clinical-. C. W. Boman. No. 1,024,824; Apr. 30; Sp. p. 6644; Gaz. vol. 177; p. 1169.
Thermometer casing, Clinical-. F. McIntyre. No. 1,041,135; Oct. 15; Gaz. vol. 183; p. 560.
Thermometer for stills, Recording and indicating. R. Dunwody. No. 1,035,952; Aug. 20; Gaz. vol. 181; p. 592.
Thermometer for turpentine-stills. R. Dunwody. No. 1,035,953; Aug. 20; Gaz. vol. 181; p. 592.
Thermometer-holder. W. S. Atchison. No. 1,034,380; July 30; Gaz. vol. 180; p. 1358.
Thermometer holder, Aseptic clinical-. W. I. Brown. No. 1,017,377; Feb. 13; Sp. p. 2531; Gaz. vol. 175; p. 429.
Thermometer, Metallic. C. E. Merryman. No. 1,020,045; Mar. 12; Sp. p. 2210; Gaz. vol. 176; p. 381.
Thermostat. G. P. Wild. No. 1,013,854; Jan. 2; Sp. p. 1688; Gaz. vol. 174; p. 266.
Thermostat. E. P. Alexander. No. 1,030,857; July 2; Gaz. vol. 180; p. 3.
Thermostat. J. S. Harley. No. 1,031,847; July 9; Gaz. vol. 180; p. 389.
Thermostat. T. Chapman. No. 1,034,689; Aug. 6; Gaz. vol. 181; p. 95.
Thermostat. E. Moss. No. 1,039,174; Sept. 24; Gaz. vol. 182; p. 759.
Thermostat. E. E. Gold. No. 1,042,104; Oct. 22; Gaz. vol. 183; p. 923.
Thermostat. L. W. Zettler. No. 1,043,382; Nov. 5; Gaz. vol. 184; p. 121.
Thermostat. D. Beatty. No. 1,046,543; Dec. 10; Gaz. vol. 185; p. 299.
Thermostat. D. E. Belden. No. 1,048,277; Dec. 24; Gaz. vol. 185; p. 956.
Thermostat for electric heat-regulating systems. J. C. Kersteter. No. 1,020,289; Mar. 12; Sp. p. 2727; Gaz. vol. 176; p. 462.
Thermostatic device. T. H. Smith. No. 1,030,025; June 18; Sp. p. 4259; Gaz. vol. 179; p. 737.
Thermostatic device, Differential. E. W. Comfort and W. H. Carrier. No. 1,018,551; Feb. 27; Sp. p. 5198; Gaz. vol. 175; p. 904.
Thermostatic instruments, Casing for. G. Porter. No. 1,021,888; Apr. 2; Sp. p. 292; Gaz. vol. 177; p. 48.
Thermostatic regulating device. E. W. Comfort. No. 1,032,189; July 9; Gaz. vol. 180; p. 504.
Thermostatic regulating device. E. W. Comfort. No. 1,040,625; Oct. 8; Gaz. vol. 183; p. 355.
Thermostatic regulator. C. E. Teeters. No. 1,016,795; Feb. 6; Sp. p. 1259; Gaz. vol. 175; p. 194.
Thermostatic time-element device. N. Wilkinson. No. 1,030,555; June 25; Sp. p. 5491; Gaz. vol. 179; p. 963.
Thermostatically-controlled apparatus. M. J. Brierty. No. 1,033,529; July 23; Gaz. vol. 180; p. 1039.
Thermotic switch. G. F. Humphreys. No. 1,042,920; Oct. 29; Gaz. vol. 183; p. 1230.
Thill-coupling. H. Roeber. No. 1,029,717; June 18; Sp. p. 3589; Gaz. vol. 179; p. 633.
Thill-coupling. A. G. Snyder. No. 1,029,896; June 18; Sp. p. 3994; Gaz. vol. 179; p. 695.
Thill-coupling. F. M. Foote and C. H. Schabinger. No. 1,031,673; July 2; Gaz. vol. 180; p. 286.
Thill-coupling. H. Reid. No. 1,037,533; Sept. 3; Gaz. vol. 182; p. 121.
Thill-coupling attachment. F. M. Foote and C. H. Schabinger. No. 1,023,106; Apr. 9; Sp. p. 2877; Gaz. vol. 177; p. 489.
Thinning-machine. S. Stone. No. 1,016,110; Jan. 30; Sp. p. 6631; Gaz. vol. 174; p. 1152.
Thoracic operations, Apparatus for conducting. W. and J. Meyer. No. 1,013,800; Jan. 2; Sp. p. 1551; Gaz. vol. 174; p. 247.
Thread and forming same. J. D. Armitage. No. 1,031,614; July 2; Gaz. vol. 180; p. 265.
Thread-carrier. A. Petersen. No. 1,043,788; Nov. 5; Gaz. vol. 184; p. 260.
Thread-clearing device. E. Woolley. No. 1,040,087; Oct. 1; Gaz. vol. 183; p. 139.
Thread-cutter. M. C. Heckaman. No. 1,034,450; Aug. 6; Gaz. vol. 181; p. 17.
Thread cutter, Floating-. G. S. Weinerth. No. 1,038,695; Sept. 17; Gaz. vol. 182; p. 581.
Thread cutting and holding attachment for spools. T. I. L. Butts. No. 1,043,014; Nov. 12; Gaz. vol. 184; p. 372.
Thread-cutting apparatus. S. Frey. No. 1,026,205; May 14; Sp. p. 2464; Gaz. vol. 178; p. 413.
Thread-cutting apparatus. S. Frey. No. 1,043,082; Nov. 5; Gaz. vol. 184; p. 11.
Thread-cutting dies. M. H. Lukens. No. 1,020,996; Mar. 26; Sp. p. 4235; Gaz. vol. 176; p. 787.
Thread-cutting machine. A. B. Landis. No. 1,017,889; Feb. 20; Sp. p. 3689; Gaz. vol. 175; p. 642.
Thread-cutting machine. H. R. Farnsworth. No. 1,022,934; Apr. 9; Sp. p. 2526; Gaz. vol. 177; p. 431.
Thread-cutting machine. A. M. Saunders and O. M. Mowat. No. 1,040,583; Oct. 8; Gaz. vol. 183; p. 340.
Thread-cutting mechanism. H. W. Oster. No. 1,047,280; Dec. 17; Gaz. vol. 185; p. 585.
Thread-cutting tool. B. Borden. No. 1,033,983; July 30; Gaz. vol. 180; p. 1219.
Thread-dressing machines and the like, Tension control for. H. J. Marx. No. 1,029,878; June 18; Sp. p. 3958; Gaz. vol. 179; p. 689.
Thread end into cops, Apparatus for drawing the. E. Fritsch. No. 1,038,554; Sept. 17; Gaz. vol. 182; p. 532.
Thread-finishing machine. W. C. Keyworth. No. 1,046,197; Dec. 3; Gaz. vol. 185; p. 137.
Thread-gage. W. H. Nichols. No. 1,032,764; July 16; Gaz. vol. 180; p. 745.
Thread-guide. J. R. Mitchell. No. 1,030,112; June 18; Sp. p. 4451; Gaz. vol. 179; p. 769.
Thread-guide. A. A. Merritt. No. 1,041,655; Oct. 15; Gaz. vol. 183; p. 733.
Thread-guide. A. A. Merritt. No. 1,041,656; Oct. 15; Gaz. vol. 183; p. 734.
Thread-guide. A. A. Merritt. No. 1,044,068; Nov. 12; Gaz. vol. 184; p. 390.
Thread guide and clearer. L. T. Houghton. No. 1,039,285; Sept. 24; Gaz. vol. 182; p. 801.
Thread guide and clearing device. G. F. Macfarlane. No. 1,023,578; Apr. 16; Sp. p. 3881; Gaz. vol. 177; p. 683.
Thread-guide bars, Driving mechanism for. C. Walther. No. 1,023,695; Apr. 16; Sp. p. 4094; Gaz. vol. 177; p. 718.
Thread-guide bars, Speed-retarding device for. C. Walther. No. 1,023,694; Apr. 16; Sp. p. 4093; Gaz. vol. 177; p. 718.
Thread-holding device. E. J. Durand. No. 1,035,559; Aug. 13; Gaz. vol. 181; p. 423.
Thread-lock. W. R. Blair. No. 1,048,441; Dec. 24; Gaz. vol. 185; p. 1011.
Thread, Lustrous. P. Benrath. No. 1,031,616; July 2; Gaz. vol. 180; p. 266.
Thread, Manufacturing artificial. J. Hermans. No. 1,034,235; July 30; Gaz. vol. 180; p. 1308.
Thread-protector. J. P. Shrum, W. C. Rae, and J. W. Ripper. No. 1,023,969; Apr. 23; Sp. p. 4718; Gaz. vol. 177; p. 837.
Thread protector and cutter. M. C. Temple. No. 1,029,518; June 11; Sp. p. 3135; Gaz. vol. 179; p. 526.
Thread-rolling machine. A. H. Adams. No. 1,040,485; Oct. 8; Gaz. vol. 183; p. 303.
Thread-twisting machine. W. Hilden. No. 1,030,179; June 18; Sp. p. 4574; Gaz. vol. 179; p. 791.
Thread-waxing device. F. Ashworth. No. 1,015,772; Jan. 30; Sp. p. 5908; Gaz. vol. 174; p. 1034.
Thread-waxing device. A. Eppler. No. 1,023,071; Apr. 9; Sp. p. 2803; Gaz. vol. 177; p. 477.

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Threads, Manufacturing fine artificial. C. R. Linkmeyer. No. 1,022,097; Apr. 2; Sp. p. 729; Gaz. vol. 177; p. 116.
Threading-die. O. A. Smith. No. 1,038,670; Sept. 17; Gaz. vol. 182; p. 572.
Threading-tool. J. M. Carpenter. No. 1,016,206; Jan. 30; Sp. p. 6805; Gaz. vol. 174; p. 1182.
Threading-tool. C. B. Bickel. No. 1,031,905; July 9; Gaz. vol. 180; p. 409.
Threading-tool. J. C. Smith. No. 1,041,362; Oct. 15; Gaz. vol. 183; p. 637.
Threadometer. C. A. Hammond-Knowlton. No. 1,024,332, Apr. 23; Sp. p. 5499; Gaz. vol. 177; p. 963.
Three-high-roll mill. C. L. Taylor. No. 1,014,676; Jan. 16; Sp. p. 3547; Gaz. vol. 174; p. 607.
Thresher-concave. M. Flynn. No. 1,040,301; Oct. 8; Gaz. vol. 183; p. 241.
Thresher self-feeder. C. R. Wilson. No. 1,048,622; Dec. 31; Gaz. vol. 185; p. 1111.
Threshers, Tail-board for bean-. H. N. Alwood. No. 1,029,251; June 11; Sp. p. 2562; Gaz. vol. 179; p. 434.
Threshing and separating machine, Grain. T. A. Lewis. No. 1,026,685; May 21; Sp. p. 3511; Gaz. vol. 178; p. 612.
Threshing-cylinder. H. W. Rich and C. E. Gates. No. 1,020,714; Mar. 19; Sp. p. 3644; Gaz. vol. 176; p. 641.
Threshing device, Peanut-. C. R. Livermon. No. 1,049,244; Dec. 31; Gaz. vol. 185; p. 1325.
Threshing, harvesting, and bundling apparatus, Combined. M. Kejr. No. 1,027,484; May 28; Sp. p. 5263; Gaz. vol. 178; p. 923.
Threshing-machine. E. F. Richmond. No. 1,013,816; Jan. 2; Sp. p. 1581; Gaz. vol. 174; p. 252.
Threshing-machine. L. Weinfeld. No. 1,014,189; Jan. 9; Sp. p. 2433; Gaz. vol. 174; p. 408.
Threshing-machine. L. Weinfeld. No. 1,015,749; Jan. 23; Sp. p. 5857; Gaz. vol. 174; p. 998.
Threshing-machine. H. M. Boe. No. 1,017,129; Feb. 13; Sp. p. 2003; Gaz. vol. 175; p. 344.
Threshing-machine. H. T. Seburn. No. 1,019,194; Mar. 5; Sp. p. 416; Gaz. vol. 176; p. 66.
Threshing-machine. A. R. Cooper. No. 1,021,917; Apr. 2; Sp. p. 347; Gaz. vol. 177; p. 57.
Threshing-machine. T. Dugan. No. 1,032,127; July 9; Gaz. vol. 180; p. 481.
Threshing-machine. B. Jacobsen and K. S. Nygaard. No. 1,033,899; July 30; Gaz. vol. 180; p. 1190.
Threshing-machine closure. D. A. McConnell. No. 1,038,926; Sept. 17; Gaz. vol. 182; p. 663.
Threshing-machine concaves and cylinders, Tooth-fastener for. E. E. Roberts. No. 1,015,743; Jan. 23; Sp. p. 5846; Gaz. vol. 174; p. 997.
Threshing-machine cylinder. O. C. Shaw. (Reissue.) No. 13,479; Oct. 15; Gaz. vol. 183; p. 756.
Threshing-machine cylinders, Removable tooth for. T. A. Bateman. No. 1,033,658; July 23; Gaz. vol. 180; p. 1082.
Threshing-machine feeder. E. J. Vraalstad. No. 1,041,205; Oct. 15; Gaz. vol. 183; p. 584.
Threshing-machine feeding mechanism. F. Hansen. No. 1,026,261; May 14; Sp. p. 2581; Gaz. vol. 178; p. 432.
Threshing-machine safety device. R. Gross. No. 1,029,117; June 11; Sp. p. 2277; Gaz. vol. 179; p. 389.
Threshing-machine self-feeder. E. P. Charland. No. 1,035,113; Aug. 6; Gaz. vol. 181; p. 237.
Threshing-machine-shoe hydraulic leveling device. A. Hovland. No. 1,035,193; Aug. 13; Gaz. vol. 181; p. 295.
Threshing-machine tongue and pole. G. W. Bordeleau. No. 1,042,526; Oct. 29; Gaz. vol. 183; p. 1094.
Threshing-machines, clover-mills, &c., Feeder for. W. J. Hutchinson. No. 1,033,590; July 23; Gaz. vol. 180; p. 1060.
Threshing-machines, Wind-stacker for. T. J. Gee. No. 1,031,706; July 9; Gaz. vol. 180; p. 340.
Thrips-catching machine. C. B. Driver. No. 1,031,172; July 2; Gaz. vol. 180; p. 115.
Throttle-controller. J. J. Quigley. No. 1,043,868; Nov. 12; Gaz. vol. 184; p. 320.
Throttle-stem gland. C. Weaver and G. A. Price. No. 1,027,783; May 28; Sp. p. 5873; Gaz. vol. 178; p. 1022.
Throw mechanism for automatic machines, Variable-. R. T. Gulliford. No. 1,025,976; May 14; Sp. p. 1931; Gaz. vol. 178; p. 333.
Thrust-block. V. A. Debes. No. 1,020,745; Mar. 19; Sp. p. 3715; Gaz. vol. 176; p. 651.
Thrust-collar. H. A. Tuttle. No. 1,022,518; Apr. 9; Sp. p. 1605; Gaz. vol. 177; p. 287.
Thumb and finger sucking preventer. J. M. Mitchell. No. 1,048,569; Dec. 31; Gaz. vol. 185; p. 1093.
Thyroid-gland extracts, Producing. E. Hoennicke. No. 1,036,622; Aug. 27; Gaz. vol. 181; p. 858.
Thyroid glands and other organs in a pure state, Obtaining the inner secretions of the. E. Hoennicke. No. 1,043,007; Oct. 29; Gaz. vol. 183; p. 1260.
Ticket-attaching machine. H. G. Davis. No. 1,048,136; Dec. 24; Gaz. vol. 185; p. 909.
Ticket counting and inspecting machine. R. E. Kimball. No. 1,027,613; May 28; Sp. p. 5527; Gaz. vol. 178; p. 967.
Ticket, Coupon transfer-. H. Braun. No. 1,048,286; Dec. 24; Gaz. vol. 185; p. 959.
Ticket-cutter. H. W. Hargis. No. 1,027,331; May 21; Sp. p. 4952; Gaz. vol. 178; p. 833.
Ticket-handler. J. E. Barnaba. No. 1,028,661; June 4; Sp. p. 1294; Gaz. vol. 179; p. 198.
Ticket-holder. E. H. Iveson. No. 1,025,272; May 7; Sp. p. 356; Gaz. vol. 178; p. 58.
Ticket-holder. E. A. Holden. No. 1,025,805; May 7; Sp. p. 1526; Gaz. vol. 178; p. 241.
Ticket-holder. H. E. Swihart. No. 1,040,051; Oct. 1; Gaz. vol. 183; p. 127.
Ticket-holder. E. Otter. No. 1,043,052; Oct. 29; Gaz. vol. 183; p. 1276.
Ticket-holder. A. J. Reynolds. No. 1,046,644; Dec. 10; Gaz. vol. 185; p. 334.
Ticket holding and serving device. F. Oppenheimer and W. G. Spiegel. No. 1,016,893; Feb. 6; Sp. p. 1449; Gaz. vol. 175; p. 225.
Ticket-issuing machine. W. P. Dun Lany. No. 1,028,199; June 4; Sp. p. 318; Gaz. vol. 179; p. 42.
Ticket-machine. W. L. Sullivan. No. 1,039,212; Sept. 24; Gaz. vol. 182; p. 774.
Ticket machine, Amusement-. R. M. Rickert. No. 1,026,605; May 14; Sp. p. 3307; Gaz. vol. 178; p. 546.
Ticket, Marking-. J. C. Edwards. No. 1,037,823; Sept. 3; Gaz. vol. 182; p. 215.
Ticket, Mileage transportation-. W. Ellis. No. 1,018,749; Feb. 27; Sp. p. 5610; Gaz. vol. 175; p. 970.
Ticket or check book holder. E. F. Coates. No. 1,042,324; Oct. 22; Gaz. vol. 183; p. 994.
Ticket, Pin-. I. Kaufman. No. 1,030,471; June 25; Sp. p. 5270; Gaz. vol. 179; p. 935.
Ticket, Pin-. H. S. Brewington. No. 1,041,588; Oct. 15; Gaz. vol. 183; p. 709.
Ticket, Pin-. J. C. St. John. No. 1,049,167; Dec. 31; Gaz. vol. 185; p. 1299.
Ticket, Railway-. F. Oppenheimer. No. 1,035,997; Aug. 20; Gaz. vol. 181; p. 606.
Ticket, Railway hat-check. J. O. M. Seibert. No. 1,043,153; Nov. 5; Gaz. vol. 184; p. 37.
Ticket, Railway-passage. J. S. Gibbs. No. 1,031,359; July 9; Gaz. vol. 180; p. 563.
Ticket, Safety pin-. T. C. Candlish. No. 1,031,522; July 2; Gaz. vol. 180; p. 234.
Ticket, Street-railway transfer-. F. W. Shean. No. 1,026,707; May 21; Sp. p. 3551; Gaz. vol. 178; p. 620.
Ticket, Transfer-. C. M. B. Schwartz. No. 1,040,243; Oct. 1; Gaz. vol. 183; p. 191.
Ticket, Transportation-. J. M. Hoffner. No. 1,029,293; June 11; Sp. p. 2641; Gaz. vol. 179; p. 448.
Tickets and other articles, Apparatus for issuing or delivering. G. I. F. Soulage. No. 1,043,639; Nov. 5; Gaz. vol. 184; p. 211.
Tickets for street-cars, Arranging. L. P. Lipps. No. 1,017,007; Feb. 13; Sp. p. 1726; Gaz. vol. 175; p. 301.
Ticketing machine, Automatic pin-. B. W. Scott. No. 1,023,883; Apr. 23; Sp. p. 4510; Gaz. vol. 177; p. 808.
Ticketing machine, Pin-. F. Kohnle. No. 1,028,225; June 4; Sp. p. 367; Gaz. vol. 179; p. 51.
Ticketing machine, Pin-. F. Kohnle. No. 1,029,695; June 18; Sp. p. 3523; Gaz. vol. 179; p. 625.
Ticketing machines, Stapling mechanism for pin-. B. W. Scott. No. 1,019,924; Mar. 12; Sp. p. 1967; Gaz. vol. 176; p. 341.
Tide-motor. F. D. Taylor. No. 1,047,591; Dec. 17; Gaz. vol. 185; p. 695.
Tide-motor. W. Braunsdorf. No. 1,048,389; Dec. 24; Gaz. vol. 185; p. 994.
Tie: *See* Bale-tie; Blade-tie; Cattle-tie; Concrete tie; Concrete cross-tie; Concrete railway-tie; Cross-tie; Lock-tie; Metal tie; Metallic tie; Package-tie; Rail-tie; Railway-tie; Railway cross-tie; Railway-rail tie; Steel tie; Wire-tie.
Tie. H. M. Miller. No. 1,019,342; Mar. 5; Sp. p. 749; Gaz. vol. 176; p. 117.
Tie. S. Bzsan. No. 1,037,124; Aug. 27; Gaz. vol. 181; p. 1025.
Tie and collar fastener, Combined. D. Hepp. No. 1,019,328; Mar. 5; Sp. p. 719; Gaz. vol. 176; p. 112.
Tie and rail-fastener. A. D. Williams. No. 1,013,712; Jan. 2; Sp. p. 1374; Gaz. vol. 174; p. 215.
Tie and rail-fastener. F. Wajda. No. 1,015,657; Jan. 23; Sp. p. 5662; Gaz. vol. 174; p. 967.
Tie and rail-fastener. W. G. Lucas. No. 1,018,835; Feb. 27; Sp. p. 5786; Gaz. vol. 175; p. 999.
Tie and rail-fastener. H. L. Heacox. No. 1,018,902; Feb. 27; Sp. p. 5925; Gaz. vol. 175; p. 1021.
Tie and rail-fastener. J. Malek. No. 1,019,503; Mar. 5; Sp. p. 1149; Gaz. vol. 176; p. 169.
Tie and rail-fastener. M. Flak. No. 1,020,406; Mar. 19; Sp. p. 2961; Gaz. vol. 176; p. 538.
Tie and rail-fastener. J. J. Zipfel. No. 1,020,470; Mar. 19; Sp. p. 3094; Gaz. vol. 176; p. 559.
Tie and rail-fastener. W. J. Kupp. No. 1,022,790; Apr. 9; Sp. p. 2226; Gaz. vol. 177; p. 381.
Tie and rail-fastener. W. T. Smith. No. 1,022,890; Apr. 9; Sp. p. 2421; Gaz. vol. 177; p. 414.

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Tie and rail-fastener. S. Clary and J. Butler. No. 1,025,686; May 7; Sp. p. 1286; Gaz. vol. 178; p. 199.
Tie and rail-fastener. M. Chila. No. 1,026,657; May 21; Sp. p. 3454; Gaz. vol. 178; p. 602.
Tie and rail-fastener. T. Baughman. No. 1,027,232; May 21; Sp. p. 4758; Gaz. vol. 178; p. 800.
Tie and rail-fastener. V. C. Washabaugh and J. S. Peters. No. 1,027,946; May 28; Sp. p. 6272; Gaz. vol. 178; p. 1078.
Tie and rail-fastener. R. D. Milliron. No. 1,028,587; June 4; Sp. p. 1143; Gaz. vol. 179; p. 174.
Tie and rail-fastener. J. Krynock. No. 1,029,376; June 11; Sp. p. 2845; Gaz. vol. 179; p. 478.
Tie and rail-fastener. H. F. Besenberg. No. 1,030,157; June 18; Sp. p. 4531; Gaz. vol. 179; p. 783.
Tie and rail-fastener. A. Kozaczka. No. 1,030,896; July 2; Gaz. vol. 180; p. 16.
Tie and rail-fastener. J. Lenart. No. 1,030,899; July 2; Gaz. vol. 180; p. 17.
Tie and rail-fastener. S. Dutkowski. No. 1,031,634; July 2; Gaz. vol 180; p. 272.
Tie and rail-fastener. V. J. Kuna. No. 1,034,918; Aug. 6; Gaz. vol. 181; p. 173.
Tie and rail-fastener. T. Carr. No. 1,036,449; Aug. 20; Gaz. vol. 181; p. 766.
Tie and rail-fastener. I. Postlethwait. No. 1,043,539; Nov. 5; Gaz. vol. 184; p. 177.
Tie and rail-fastener, Combination. E. Davis. No. 1,037,600; Sept. 3; Gaz. vol. 182; p. 142.
Tie and rail-fastener, Combined. W. Wilde. No. 1,018,538; Feb. 27; Sp. p. 5165; Gaz. vol. 175; p. 898.
Tie and rail-fastener, Combined. E. Stack. No. 1,024,953; Apr. 30; Sp. p. 6911; Gaz. vol. 177; p. 1214.
Tie and rail-fastener, Combined. T. G. Oelke. No. 1,038,944; Sept. 17; Gaz. vol. 182; p. 668.
Tie and rail-securing means. G. W. Whiteman. No. 1,025,664; May 7; Sp. p. 1243; Gaz. vol. 178; p. 192.
Tie and track-fastening, Combined. F. L. Downs. No. 1,018,305; Feb. 20; Sp. p. 4578; Gaz. vol. 175; p. 786.
Tie anticreeping device. J. O'Shea. No. 1,038,975; Sept. 17; Gaz. vol. 182; p. 678.
Tie-clasp. A. Senator. No. 1,020,316; Mar. 12; Sp. p. 2774; Gaz. vol. 176; p. 470.
Tie-holder. E. A. Krevis. No. 1,019,489; Mar. 5; Sp. p. 1123; Gaz. vol. 176; p. 164.
Tie-nipper. E. W. Hoover and J. A. Coleman. No. 1,048,163; Dec. 24; Gaz. vol. 185; p. 919.
Tie or bow. A. H. Prenzel. No. 1,043,357; Nov. 5; Gaz. vol. 184; p. 112.
Tie-plate. J. W. Kendrick. No. 1,013,179; Jan. 2; Sp. p. 178; Gaz. vol. 174; p. 31.
Tie-plate. J. F. O'Connor. No. 1,026,114; May 14; Sp. p. 2267; Gaz. vol. 178; p. 383.
Tie-plate. C. J. Gadd. No. 1,032,330; July 9; Gaz. vol. 180; p. 552.
Tie-plate. J. W. Walton and W. H. Dayton. No. 1,032,520; July 16; Gaz. vol. 180; p. 661.
Tie-plate. J. Henberger. No. 1,038,578; Sept. 17; Gaz. vol. 182; p. 540.
Tie-plate. C. W. Sherman. No. 1,039,453; Sept. 24; Gaz. vol. 182; p. 858.
Tie-plate. W. Whigham. No. 1,045,107; Nov. 19; Gaz. vol. 184; p. 778.
Tie-plate, Anticreeper. D. P. Wolhaupter. No. 1,038,702; Sept. 17; Gaz. vol. 182; p. 584.
Tie-plate and rail-fastening device. H. P. White. No. 1,027,577; May 28; Sp. p. 5467; Gaz. vol. 178; p. 956.
Tie-plate, Anticreeping. C. M. Kipp. No. 1,044,396; Nov. 12; Gaz. vol. 184; p. 502.
Tie-plate claws, Machine for pointing. T. V. Handloser and J. C. Dilworth. No. 1,019,634; Mar. 5; Sp. p. 1388; Gaz. vol. 176; p. 212.
Tie-plate claws, Pointing. T. V. Handloser and J. C. Dilworth. No. 1,021,520; Mar. 26; Sp. p. 5375; Gaz. vol. 176; p. 967.
Tie-plates, Manufacturing. E. H. Bell. No. 1,044,853; Nov. 19; Gaz. vol. 184; p. 691.
Tie structure. A. H. Moffet. No. 1,014,089; Jan. 9; Sp. p. 2230; Gaz. vol. 174; p. 374.
Ties into engine-wood, Machine for cutting old. C. O. Busbey. No. 1,041,014; Oct. 15; Gaz. vol. 183; p. 519.
Tile. J. Ferlà. No. 1,047,927; Dec. 24; Gaz. vol. 185; p. 840.
Tile-cutting machine. J. L. Sheron. No. 1,017,922; Feb. 20; Sp. p. 3766; Gaz. vol. 175; p. 655.
Tile, Drain-. J. M. Wilson. No. 1,014,549; Jan. 9; Sp. p. 3184; Gaz. vol. 174; p. 531.
Tile, Facing-. F. C. Gideon. No. 1,021,405; Mar. 26; Sp. p. 5123; Gaz. vol. 176; p. 927.
Tile, Facing-. J. B. Owens. No. 1,024,355; Apr. 23; Sp. p. 5535; Gaz. vol. 177; p. 970.
Tile gaging or measuring means. H. Johnson. No. 1,013,396; Jan. 2; Sp. p. 680; Gaz. vol. 174; p. 107.
Tile, Garden-edge. A. E. Powell. No. 1,015,584; Jan. 23; Sp. p. 5507; Gaz. vol. 174; p. 942.
Tile-machine. J. B. Engstrom. No. 1,022,933; Apr. 9; Sp. p. 2522; Gaz. vol. 177; p. 430.
Tile-machine. C. S. Wert. No. 1,025,663; May 7; Sp. p. 1239; Gaz. vol. 178; p. 191.
Tile-machine. W. O. Beailor. No. 1,031,512; July 2; Gaz. vol. 180; p. 231.
Tile-machine, Automatic. J. Roth. No. 1,015,588; Jan. 23; Sp. p. 5516; Gaz. vol. 174; p. 944.
Tile machine, Cement-. G. L. Allen. No. 1,037,189; Sept. 3; Gaz. vol. 182; p. 3.
Tile machine, Roofing-. O. Walter. No. 1,022,282; Apr. 2; Sp. p. 1115; Gaz. vol. 177; p. 178.
Tile-making machine. W. J. McCracken. No. 1,027,492; May 28; Sp. p. 5278; Gaz. vol. 178; p. 925.
Tile-making machine. F. Latulip. No. 1,030,591; June 25; Sp. p. 5632; Gaz. vol. 179; p. 976.
Tile-molding machine. A. Kern. No. 1,023,656; Apr. 16; Sp. p. 4033; Gaz. vol. 177; p. 707.
Tile-press. S. Giletti. No. 1,023,512; Apr. 16; Sp. p. 3745; Gaz. vol. 177; p. 662.
Tile, Roofing-. H. Ronnau. No. 1,023,878; Apr. 23; Sp. p. 4504; Gaz. vol. 177; p. 807.
Tile, Roofing-. J. B. Firoben. No. 1,024,322; Apr. 23; Sp. p. 5480; Gaz. vol. 177; p. 961.
Tile-setter. G. W. McGandy. No. 1,040,721; Oct. 8; Gaz. vol. 183; p. 390.
Tile, Sheet-metal. C. A. Weirich. No. 1,041,924; Oct. 22; Gaz. vol. 183; p. 863.
Tile-unloading machine. R. M. Candee. No. 1,024,828; Apr. 30; Sp. p. 6653; Gaz. vol. 177; p. 1171.
Tiles, &c., Machine for coating. F. E. Goldsmith. No. 1,035,959; Aug. 20; Gaz. vol. 181; p. 595.
Tiles, Machine for forming cement. F. S. Hartwell and L. C. Sears. No. 1,036,618; Aug. 27; Gaz. vol. 181; p. 857.
Tiles, Manufacture of. C. H. Bellamy. No. 1,019,414; Mar. 5; Sp. p. 959; Gaz. vol. 176; p. 139.
Tiles, Polishing cement. F. R. Thoma and O. Pannicke. No. 1,034,324; July 30; Gaz. vol. 180; p. 1338.
Tiles, pottery, &c., Oven for the manufacture of. C. Dressler. No. 1,023,628; Apr. 16; Sp. p. 3985; Gaz. vol. 177; p. 700.
Tiling. J. M. Wells. No. 1,047,724; Dec. 17; Gaz. vol. 185; p. 742.
Tiling and mold therefor, Well-. W. Mach. No. 1,036,867; Aug. 27; Gaz. vol. 181; p. 939.
Tillage, Machine for mechanical. K. V. von Meyenburg. No. 1,018,843; Feb. 27; Sp. p. 5796; Gaz. vol. 175; p. 1001.
Tilling-machine. G. Spalding. No. 1,015,648; Jan. 23; Sp. p. 5649; Gaz. vol. 174; p. 965.
Tilling machine, Soil-. L. E. Scow. No. 1,023,043; Apr. 9; Sp. p. 2739; Gaz. vol. 177; p. 468.
Tilling machine, Soil-. H. M. Derr. No. 1,045,128; Nov. 26; Gaz. vol. 184; p. 814.
Tilting gate. L. Z. Preston. No. 1,040,752; Oct. 8; Gaz. vol. 183; p. 399.
Timber and product thereof, Preserving cut. R. A. Marr. No. 1,023,745; Apr. 16; Sp. p. 4179; Gaz. vol. 177; p. 734.
Timber, Artificial. S. Bitterman. No. 1,034,680; Aug. 6; Gaz. vol. 181; p. 92.
Timber by phenolate solutions, Preserving. F. Seidenschnur. No. 1,034,652; Aug. 6; Gaz. vol. 181; p. 82.
Time-card, Employee's train. E. J. Hardy. No. 1,043,696; Nov. 5; Gaz. vol. 184; p. 229.
Time-check apparatus. W. D. and F. G. Bowman. No. 1,015,287; Jan. 23; Sp. p. 4844; Gaz. vol. 174; p. 840.
Time computer and century-calendar machine, Elapse-. A. Van Rensselaer and F. H. Tenney. No. 1,041,204; Oct. 15; Gaz. vol. 183; p. 584.
Time-element device. G. B. Schley. No. 1,027,440; May 28; Sp. p. 5187; Gaz. vol. 178; p. 909.
Time-exposure meter. E. M. Woodworth. No. 1,032,260; July 9; Gaz. vol. 180; p. 528.
Time indicator and alarm, Electric. F. Hope-Jones. No. 1,047,810; Dec. 17; Gaz. vol. 185; p. 772.
Time-lock, Recording. L. C. Bush. No. 1,031,686; July 9; Gaz. vol. 180; p. 333.
Time-movement. C. A. Miller. No. 1,043,531; Nov. 5; Gaz. vol. 184; p. 174.
Time-movement. A. L. Colburn. No. 1,044,140; Nov. 12; Gaz. vol. 184; p. 413.
Time-recorder. J. Morrison. No. 1,022,694; Apr. 9; Sp. p. 2009; Gaz. vol. 177; p. 347.
Time-recorder. H. T. Goss and J. W. Bryce. No. 1,043,094; Nov. 5; Gaz. vol. 184; p. 16.
Time-recorder, Electromagnetic. C. H. Crafton. No. 1,019,763; Mar. 12; Sp. p. 1643; Gaz. vol. 176; p. 286.
Time-recorder, Employee's. H. B. Palmer. No. 1,025,879; May 7; Sp. p. 1700; Gaz. vol. 178; p. 266.
Time-recorder, Workman's. W. Taylor. No. 1,017,344; Feb. 13; Sp. p. 2461; Gaz. vol. 175; p. 418.
Time-recorder, Workman's. R. S. Blair. No. 1,040,859; Oct. 8; Gaz. vol. 183; p. 432.
Time-recorder, Workman's. D. A. Stowell. No. 1,045,339; Nov. 26; Gaz. vol. 184; p. 888.
Time-recording device for electric trains. F. Hedley and J. S. Doyle. No. 1,020,419; Mar. 19; Sp. p. 2989; Gaz. vol. 176; p. 542.
Time-recording device for electric trains. F. Hedley and J. S. Doyle. No. 1,020,420; Mar. 19; Sp. p. 2992; Gaz. vol. 176; p. 542.
Time-signal. E. W. Wilson. No. 1,048,118; Dec. 24; Gaz. vol. 185; p. 903.

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Time-switch. J. Thompson. No. 1,021,436; Mar. 26; Sp. p. 5182; Gaz. vol. 176; p. 938.
Timer, Automatic. F. Waller, Jr. No. 1,025,726; May 7; Sp. p. 1371; Gaz. vol. 178; p. 213.
Timing device. A. Hammerstein. No. 1,014,703; Jan. 16; Sp. p. 3589; Gaz. vol. 174; p. 614.
Timing device. C. F. White. No. 1,018,799; Feb. 27; Sp. p. 5712; Gaz. vol. 175; p. 986.
Timing device. A., G. O. H., E. H., and S. A. Horstmann and W. T. Edgar. No. 1,027,652; May 28; Sp. p. 5605; Gaz. vol. 178; p. 979.
Timing device. I. L. Reeves. No. 1,031,731; July 9; Gaz. vol. 180; p. 349.
Timing device. O. A. Knopp. No. 1,038,599; Sept. 17; Gaz. vol. 182; p. 548.
Timing mechanism. E. E. Yaxley. No. 1,019,113; Mar. 5; Sp. p. 228; Gaz. vol. 176; p. 36.
Timing mechanism. C. R. Moore. No. 1,033,030; July 16; Gaz. vol. 180; p. 833.
Timepiece-regulating apparatus. F. R. Alford. No. 1,029,567; June 11; Sp. p. 3244; Gaz. vol. 179; p. 544.
Timepiece-regulator. E. H. Horn. No. 1,044,050; Nov. 12; Gaz. vol. 184; p. 383.
Timepiece-supporting device. G. J. Wells. No. 1,045,227; Nov. 26; Gaz. vol. 184; p. 849.
Timepiece winding-indicator. O. Ohlson. No. 1,038,634; Sept. 17; Gaz. vol. 182; p. 561.
Tin and purifying and improving the same. A. J. Rossi. No. 1,020,515; Mar. 19; Sp. p. 3189; Gaz. vol. 176; p. 572.
Tin-bearing material, Treating. J. Weber. No. 1,018,734; Feb. 27; Sp. p. 5567; Gaz. vol. 175; p. 963.
Tin, canister, &c. P. L. Liney. No. 1,040,707; Oct. 8; Gaz. vol. 183; p. 385.
Tin chlorid, Making anhydrous. G. Baillio. No. 1,018,805; Feb. 27; Sp. p. 5727; Gaz. vol. 175; p. 988.
Tin chlorids, Producing. R. J. McNitt. No. 1,030,110; June 18; Sp. p. 4447; Gaz. vol. 179; p. 768.
Tin-foil and the resulting product, Coating. A. J. Howell. No. 1,044,656; Nov. 19; Gaz. vol. 184; p. 623.
Tin-foil packages, Tearing-up strip for. W. Wiese. No. 1,018,464; Feb. 27; Sp. p. 4933; Gaz. vol. 175; p. 872.
Tin from dioxid of tin, Making anhydrous tetrachlorid of. F. Bräunlich. No. 1,039,356; Sept. 24; Gaz. vol. 182; p. 825.
Tin-opener. B. Jirotka. No. 1,033,803; July 30; Gaz. vol. 180; p. 1155.
Tin-plate-scouring machine. H. Petin. No. 1,035,044; Aug. 6; Gaz. vol. 181; p. 214.
Tin plates, &c., Machine for dusting. H. Petin. No. 1,034,830; Aug. 6; Gaz. vol. 181; p. 145.
Tinning-pots, Sheet-feeding mechanism for. E. K. Norton. No. 1,045,878; Dec. 3; Gaz. vol. 185; p. 28.
Tipple, Portable. F. Saxon. No. 1,046,864; Dec. 10; Gaz. vol. 185; p. 410.
Tippler for use in discharging coal or other mineral from hutches, corves, or the like, Rotary. J. Dodds. No. 1,020,133; Mar. 12; Sp. p. 2400; Gaz. vol. 176; p. 410.
Tire. A. Freschl. No. 1,013,596; Jan. 2; Sp. p. 1093; Gaz. vol. 174; p. 176.
Tire. G. W. Kitterman. No. 1,014,007; Jan. 9; Sp. p. 2051; Gaz. vol. 174; p. 346.
Tire. B. F. Lare. No. 1,015,038; Jan. 16; Sp. p. 4344; Gaz. vol. 174; p. 730.
Tire. A. E. Winter. No. 1,015,113; Jan. 16; Sp. p. 4488; Gaz. vol. 174; p. 756.
Tire. T. V. Buckwalter. No. 1,016,472; Feb. 6; Sp. p. 540; Gaz. vol. 175; p. 83.
Tire. J. J. Patton. No. 1,016,709; Feb. 6; Sp. p. 1077; Gaz. vol. 175; p. 166.
Tire. W. Pavlik. No. 1,017,456; Feb. 13; Sp. p. 2725; Gaz. vol. 175; p. 459.
Tire. A. Seelig. No. 1,017,598; Feb. 13; Sp. p. 2984; Gaz. vol. 175; p. 504.
Tire. F. E. Blaisdell. No. 1,017,732; Feb. 20; Sp. p. 3268; Gaz. vol. 175; p. 586.
Tire. W. I. Twombly. No. 1,018,454; Feb. 27; Sp. p. 4916; Gaz. vol. 175; p. 868.
Tire. E. H. Freas. No. 1,018,895; Feb. 27; Sp. p. 5905; Gaz. vol. 175; p. 1018.
Tire. S. A. Deatherage. No. 1,020,804; Mar. 19; Sp. p. 3827; Gaz. vol. 176; p. 670.
Tire. E. Dettelbach. No. 1,022,127; Apr. 2; Sp. p. 791; Gaz. vol. 177; p. 126.
Tire. F. Marinics. No. 1,022,856; Apr. 9; Sp. p. 2361; Gaz. vol. 177; p. 403.
Tire. M. E. Davis. No. 1,023,554; Apr. 16; Sp. p. 3821; Gaz. vol. 177; p. 674.
Tire. G. S. Howe. No. 1,026,038; May 14; Sp. p. 2076; Gaz. vol. 178; p. 355.
Tire. G. Gray. No. 1,027,247; May 21; Sp. p. 4784; Gaz. vol. 178; p. 805.
Tire. N. H. Horne. No. 1,027,733; May 28; Sp. p. 5770; Gaz. vol. 178; p. 1005.
Tire. J. Bropson. No. 1,027,983; May 28; Sp. p. 6354; Gaz. vol. 178; p. 1091.
Tire. S. A. Deatherage. No. 1,027,999; May 28; Sp. p. 6389; Gaz. vol. 178; p. 1096.
Tire. S. A. Matarazzo. No. 1,030,263; June 18; Sp. p. 4770; Gaz. vol. 179; p. 820.
Tire. H. A. Brandenburger. No. 1,031,416; July 2; Gaz. vol. 180; p. 199.
Tire. K. Chambers. No. 1,031,523; July 2; Gaz. vol. 180; p. 234.
Tire. F. G. Kollenberg. No. 1,031,856; July 9; Gaz. vol. 180; p. 392.
Tire. J. A. Bowden. No. 1,031,979; July 9; Gaz. vol. 180; p. 433.
Tire. C. T. Coates. No. 1,032,991; July 16; Gaz. vol. 180; p. 820.
Tire. W. L. Sweeney. No. 1,033,635; July 23; Gaz. vol. 180; p. 1075.
Tire. H. A. Brandenburger. No. 1,034,966; Aug. 6; Gaz. vol. 181; p. 189.
Tire. A. C. Rovelli. No. 1,035,473; Aug. 13; Gaz. vol. 181; p. 393.
Tire. E. Siegel and J. Ruppert, Jr. No. 1,036,016; Aug. 20; Gaz. vol. 181; p. 612.
Tire. G. V. Benninghoff. No. 1,036,955; Aug. 27; Gaz. vol. 181; p. 968.
Tire. H. O. Bartlett. No. 1,037,412; Sept. 3; Gaz. vol. 182; p. 79.
Tire. T. Toomey. No. 1,037,686; Sept. 3; Gaz. vol. 182; p. 172.
Tire. M. Toso. No. 1,038,235; Sept. 10; Gaz. vol. 182; p. 387.
Tire. H. G. Fiske. No. 1,040,920; Oct. 8; Gaz. vol. 183; p. 453.
Tire. W. G. Chipley. No. 1,041,739; Oct. 22; Gaz. vol. 183; p. 797.
Tire. A. G. Walker. No. 1,042,178; Oct. 22; Gaz. vol. 183; p. 946.
Tire. W. F. Gaul. No. 1,042,426; Oct. 29; Gaz. vol. 183; p. 1058.
Tire. A. Crowe. No. 1,043,402; Nov. 5; Gaz. vol. 184; p. 128.
Tire. P. G. Seward. No. 1,049,157; Dec. 31; Gaz. vol. 185; p. 1297.
Tire-alarm. E. A. Terpening. No. 1,019,557; Mar. 5; Sp. p. 1250; Gaz. vol. 176; p. 186.
Tire-alarm. J. B. Polo. No. 1,038,433; Sept. 10; Gaz. vol. 182; p. 456.
Tire-alarm. J. B. Polo. No. 1,049,142; Dec. 31; Gaz. vol. 185; p. 1292.
Tire and rim, Vehicle. E. H. Koken. No. 1,039,760; Oct. 1; Gaz. vol. 183; p. 31.
Tire and securing-lug therefor, Clencher-. M. R. Hutchison. No. 1,038,143; Sept. 10; Gaz. vol. 182; p. 356.
Tire and trunk holder, Combined automobile. A. U. Campbell. No. 1,015,422; Jan. 23; Sp. p. 5155; Gaz. vol. 174; p. 886.
Tire, Antiskidding. G. J. Adam. No. 1,014,357; Jan. 9; Sp. p. 2834; Gaz. vol. 174; p. 468.
Tire antiskidding device. G. J. Adam. No. 1,014,358; Jan. 9; Sp. p. 2835; Gaz. vol. 174; p. 469.
Tire-armor. C. H. Maddox. No. 1,025,285; May 7; Sp. p. 383; Gaz. vol. 178; p. 62.
Tire-armor. H. Auperl. No. 1,036,776; Aug. 27; Gaz. vol. 181; p. 908.
Tire-armor. J. R. Smith. No. 1,037,677; Sept. 3; Gaz. vol. 182; p. 169.
Tire-armor, Vehicle. J. B. Coonrod. No. 1,023,414; Apr. 16; Sp. p. 3547; Gaz. vol. 177; p. 631.
Tire, Armored. V. A. Rouilliard. No. 1,022,333; Apr. 2; Sp. p. 1219; Gaz. vol. 177; p. 194.
Tire, Armored pneumatic. J. Lend. No. 1,039,063; Sept. 17; Gaz. vol. 182; p. 704.
Tire, Automobile-. J. E. Knauss and C. Phinney. No. 1,015,690; Jan. 23; Sp. p. 5747; Gaz. vol. 174; p. 979.
Tire, Automobile-. J. F. Lieb. No. 1,019,973; Mar. 12; Sp. p. 2063; Gaz. vol. 176; p. 356.
Tire, Automobile-. W. S. Temple. No. 1,020,464; Mar. 19; Sp. p. 3078; Gaz. vol. 176; p. 557.
Tire, Automobile-. O. H. Weckesser. No. 1,024,382; Apr. 23; Sp. p. 5578; Gaz. vol. 177; p. 978.
Tire, Automobile-. L. C. Beaumont. No. 1,025,854; May 7; Sp. p. 1628; Gaz. vol. 178; p. 258.
Tire, Automobile-. E. M. Hamilton. No. 1,026,803; May 21; Sp. p. 3769; Gaz. vol. 178; p. 652.
Tire, Automobile-. W. J. Woodcock. No. 1,042,065; Oct. 22; Gaz. vol. 183; p. 909.
Tire, Automobile-. C. L. Butler. No. 1,042,392; Oct. 29; Gaz. vol. 183; p. 1044.
Tire, Automobile wheel-. H. Knoch. No. 1,034,468; Aug. 6; Gaz. vol. 181; p. 22.
Tire-bolt wrench. C. E. Oatman. No. 1,021,424; Mar. 26; Sp. p. 5158; Gaz. vol. 176; p. 933.
Tire bolter, Wheel-. M. K. Barron. No. 1,028,662; June 4; Sp. p. 1295; Gaz. vol. 179; p. 198.
Tire-case. C. F. Hopewell. No. 1,037,482; Sept. 3; Gaz. vol. 182; p. 105.
Tire-case, Automobile. L. Grimm. No. 1,018,185; Feb. 20; Sp. p. 4350; Gaz. vol. 175; p. 746.
Tire case, Spare-. C. F. Hopewell. No. 1,026,316; May 14; Sp. p. 2701; Gaz. vol. 178; p. 452.
Tire-casing. E. B. Nathan. No. 1,042,026; Oct. 22; Gaz. vol. 183; p. 897.
Tire-casing inner tube. W. C. Beckwith. No. 1,016,122; Jan. 30; Sp. p. 6649; Gaz. vol. 174; p. 1156.
Tire casings, Making pneumatic-. N. W. McLeod. No. 1,029,307; June 11; Sp. p. 2676; Gaz. vol. 179; p. 454.

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Tire-chain. J. G. Stewart. No. 1,042,166; Oct. 22; Gaz. vol. 183; p. 943.
Tire chain and guard. O. J. Mikkelson. No. 1,018,206; Feb. 20; Sp. p. 4384; Gaz. vol. 175; p. 753.
Tire-chain mechanism. C. Peterson. No. 1,021,727; Mar. 26; Sp. p. 5754; Gaz. vol. 176; p. 1033.
Tire-clencher-ring lock. P. Recconi. No. 1,046,855; Dec. 10; Gaz. vol. 185; p. 407.
Tire-cooling device, Pneumatic-. A. B. Craig. No. 1,038,092; Sept. 10; Gaz. vol. 182; p. 340.
Tire-core-filling compound and making the same. H. M. Suss. No. 1,041,526; Oct. 15; Gaz. vol. 183; p. 691.
Tire-cores, Making automobile. I. F. Trautman. No. 1,041,377; Oct. 15; Gaz. vol. 183; p. 642.
Tire cover, Pneumatic-. L. Liais. No. 1,023,666; Apr. 16; Sp. p. 4048; Gaz. vol. 177; p. 710.
Tire cover, Spare-. H. A. Sallop. No. 1,047,303; Dec. 17; Gaz. vol. 185; p. 594.
Tire, Cushion-. M. C. Merriman. No. 1,014,318; Jan. 9; Sp. p. 2727; Gaz. vol. 174; p. 454.
Tire, Cushion-. A. Hajos. No. 1,021,983; Apr. 2; Sp. p. 498; Gaz. vol. 177; p. 79.
Tire, Cushion-. D. A. York. No. 1,032,977; July 16; Gaz. vol. 180; p. 815.
Tire, Cushion-. P. Schneider. No. 1,040,431; Oct. 8; Gaz. vol. 183; p. 285.
Tire, Cushion-. W. D. McCormack. No. 1,042,941; Oct. 29; Gaz. vol. 183; p. 1236.
Tire, Cushion-. H. A. Fry and G. J. Bruce. No. 1,044,512; Nov. 19; Gaz. vol. 184; p. 571.
Tire demountable rim, Vehicle-. A. J. Michelin. No. 1,043,714; Nov. 5; Gaz. vol. 184; p. 236.
Tire, Elastic. C. Herold. No. 1,016,991; Feb. 13; Sp. p. 1698; Gaz. vol. 175; p. 296.
Tire, Elastic. J. Lazarus. No. 1,017,980; Feb. 20; Sp. p. 3897; Gaz. vol. 175; p. 674.
Tire, Elastic. A. W. Torkington. No. 1,024,042; Apr. 23; Sp. p. 4869; Gaz. vol. 177; p. 863.
Tire, Elastic. T. B., A. G., and G. P. Marchant. No. 1,024,090; Apr. 23; Sp. p. 4975; Gaz. vol. 177; p. 880.
Tire, Elastic. G. S. Doty and J. D. Show. (Reissue.) No. 13,419; May 14; Sp. p. 3423; Gaz. vol. 178; p. 564.
Tire, Elastic. P. W. Pratt. No. 1,037,311; Sept. 3; Gaz. vol. 182; p. 44.
Tire, Elastic wheel-. C. H. Genth. No. 1,045,544; Nov. 26; Gaz. vol. 184; p. 962.
Tire, Emergency-. D. Nelson. No. 1,029,553; June 11; Sp. p. 3217; Gaz. vol. 179; p. 539.
Tire-emplacing tool. T. W. Lucke. No. 1,035,456; Aug. 13; Gaz. vol. 181; p. 387.
Tire fabric. H. K. Raymond. No. 1,043,143; Nov. 5; Gaz. vol. 184; p. 34.
Tire fabric having annular elastic zones, Pneumatic-. L. A. Subers. No. 1,026,836; May 21; Sp. p. 3843; Gaz. vol. 178; p. 664.
Tire-fastening device. W. L. Bauer. No. 1,037,414; Sept. 3; Gaz. vol. 182; p. 80.
Tire-fastening device. W. R. Morrison. No. 1,046,629; Dec. 10; Gaz. vol. 185; p. 329.
Tire-filler. W. E. Howser and A. M. Woltz. No. 1,038,891; Sept. 17; Gaz. vol. 182; p. 650.
Tire-filler. W. B. Buckley. No. 1,042,884; Oct. 29; Gaz. vol. 183; p. 1219.
Tire-filling compound. H. J. Breeze. No. 1,015,133; Jan. 16; Sp. p. 4526; Gaz. vol. 174; p. 763.
Tire-filling compound and process involving the same. H. I. Manley. No. 1,025,000; Apr. 30; Sp. p. 7001; Gaz. vol. 177; p. 1230.
Tire for automobiles or other vehicles, Spring-. G. A. and W. M. Krautter. No. 1,047,538; Dec. 17; Gaz. vol. 185; p. 676.
Tire for automobiles, vehicles, &c. A. W. Rowe. No. 1,040,581; Oct. 8; Gaz. vol. 183; p. 339.
Tire for the wheels of vehicles, Elastic. F. E. Blaisdell. No. 1,035,851; Aug. 20; Gaz. vol. 181; p. 558.
Tire for vehicle-wheels, Cushion-. M. M. Weiss. No. 1,040,074; Oct. 1; Gaz. vol. 183; p. 135.
Tire for vehicle-wheels, Elastic. C. F. Waldman. No. 1,023,344; Apr. 16; Sp. p. 3412; Gaz. vol. 177; p. 609.
Tire for vehicle-wheels, Pneumatic. E. E. Black. No. 1,023,454; Apr. 16; Sp. p. 3626; Gaz. vol. 177; p. 643.
Tire for vehicle-wheels, Pneumatic. G. Desson. No. 1,025,610; May 7; Sp. p. 1120; Gaz. vol. 178; p. 175.
Tire for vehicle-wheels, Pneumatic. L. A. Garchey. No. 1,026,858; May 21; Sp. p. 3886; Gaz. vol. 178; p. 671.
Tire for vehicle-wheels, Pneumatic. E. R. Riedinger. No. 1,041,350; Oct. 15; Gaz. vol. 183; p. 633.
Tire for vehicle-wheels, Resilient. A. A. Curry. No. 1,024,976; Apr. 30; Sp. p. 6947; Gaz. vol. 177; p. 1221.
Tire for vehicle-wheels, Resilient. W. W. Broga. No. 1,035,078; Aug. 6; Gaz. vol. 181; p. 225.
Tire for vehicles, Resilient. H. A. Carmichael. No. 1,039,897; Oct. 1; Gaz. vol. 183; p. 76.
Tire for vehicle-wheels, Resilient. O. Erickson and O. G. Sunden. No. 1,049,067; Dec. 31; Gaz. vol. 185; p. 1267.
Tire for vehicle-wheels, Resilient metal. F. W. Wieber. No. 1,034,942; Aug. 6; Gaz. vol. 181; p. 181.
Tire for vehicle-wheels, Spring-. A. B. McQueen. No. 1,015,451; Jan. 23; Sp. p. 5212; Gaz. vol. 174; p. 896.
Tire for vehicle-wheels, Spring-. M. E. Courtney. No. 1,031,530; July 2; Gaz. vol. 180; p. 237.
Tire for vehicle-wheels, Spring-cushion. A. J. Layhon. No. 1,028,889; June 11; Sp. p. 1779; Gaz. vol. 179; p. 311.
Tire for vehicle-wheels, Spring-cushioned. W. W. Lower. No. 1,025,072; Apr. 30; Sp. p. 7128; Gaz. vol. 177; p. 1252.
Tire for vehicles, Cushion-. W. S. Holmes and W. B. Johnson. No. 1,027,130; May 21; Sp. p. 4559; Gaz. vol. 178; p. 766.
Tire for vehicles, Spring-. S. R. Crews. No. 1,030,233; June 18; Sp. p. 4705; Gaz. vol. 179; p. 809.
Tire for wheels, Cushion-. N. McQueen. No. 1,035,128; Aug. 6; Gaz. vol. 181; p. 241.
Tire for wheels of motor-vehicles, &c., Resilient. H. M. Bagdigian. No. 1,018,027; Feb. 20; Sp. p. 3988; Gaz. vol. 175; p. 690.
Tire-grip. R. A. Breul. No. 1,043,062; Nov. 5; Gaz. vol. 184; p. 4.
Tire-guard. C. Dabelstein. No. 1,022,658; Apr. 9; Sp. p. 1917; Gaz. vol. 177; p. 334.
Tire-holder. A. M. Sönnichsen. No. 1,018,590; Feb. 27; Sp. p. 5277; Gaz. vol. 175; p. 916.
Tire-holder. J. C. Cole. No. 1,032,659; July 16; Gaz. vol. 180; p. 709.
Tire-holder. A. M. Sonnichsen. No. 1,036,020; Aug. 20; Gaz. vol. 181; p. 613.
Tire-holder and trunk, Combined. J. V. Pratzner. No. 1,013,564; Jan. 2; Sp. p. 1027; Gaz. vol. 174; p. 165.
Tire-inflater. W. A. Vinson. No. 1,045,760; Nov. 26; Gaz. vol. 184; p. 1037.
Tire-inflating apparatus. M. F. Stolberg. No. 1,028,628; June 4; Sp. p. 1221; Gaz. vol. 179; p. 187.
Tire-inflating apparatus, Rotating. R. E. Darnley. No. 1,040,643; Oct. 8; Gaz. vol. 183; p. 364.
Tire-inflating system, Pneumatic-. C. A. Rivers. No. 1,016,896; Feb. 6; Sp. p. 1457; Gaz. vol. 175; p. 226.
Tire-inflation indicator. A. J. de Lotbinière. No. 1,019,674; Mar. 5; Sp. p. 1462; Gaz. vol. 176; p. 225.
Tire-inflation mechanism. R. L. Foster. No. 1,026,667; May 21; Sp. p. 3471; Gaz. vol. 178; p. 606.
Tire-lock. T. J. Kelly. No. 1,041,632; Oct. 15; Gaz. vol. 183; p. 724.
Tire-lock, Automobile. B. A. Alperin. No. 1,042,377; Oct. 29; Gaz. vol. 183; p. 1039.
Tire-mail. J. B. Duhring. No. 1,046,451; Dec. 10; Gaz. vol. 185; p. 265.
Tire-making apparatus. C. H. Semple. No. 1,034,372; July 30; Gaz. vol. 180; p. 1356.
Tire-making apparatus. J. N. Satterthwaite. No. 1,035,749; Aug. 13; Gaz. vol. 181; p. 485.
Tire-making apparatus, Leather-. E. Spiegel. No. 1,037,352; Sept. 3; Gaz. vol. 182; p. 58.
Tire-making machine. L. D. Crosby. No. 1,042,649; Oct. 29; Gaz. vol. 183; p. 1137.
Tire-making machine. T. J. Whalen. No. 1,045,346; Nov. 26; Gaz. vol. 184; p. 891.
Tire, Metallic. C. E. Cox. No. 1,014,814; Jan. 16; Sp. p. 3836; Gaz. vol. 174; p. 652.
Tire, Non-skidding. J. G. Boss. No. 1,040,865; Oct. 8; Gaz. vol. 183; p. 436.
Tire-patch. R. E. Gregg. No. 1,047,790; Dec. 17; Gaz. vol. 185; p. 765.
Tire patch, Pneumatic-. C. W. McKee. No. 1,016,349; Feb. 6; Sp. p. 257; Gaz. vol. 175; p. 40.
Tire-patching device. G. J. Martel. No. 1,048,189; Dec. 24; Gaz. vol. 185; p. 927.
Tire-plug. P. A. Rosenthal. No. 1,014,851; Jan. 16; Sp. p. 3934; Gaz. vol. 174; p. 666.
Tire-plug inserter. F. B. Parks. No. 1,025,203; May 7; Sp. p. 207; Gaz. vol. 178; p. 35.
Tire, Pneumatic. G. R. Vaughan. No. 1,015,599; Jan. 23; Sp. p. 5540; Gaz. vol. 174; p. 948.
Tire, Pneumatic. W. I. Twombly. No. 1,019,286; Mar. 5; Sp. p. 625; Gaz. vol. 176; p. 97.
Tire, Pneumatic. J. McGinnis. No. 1,021,616; Mar. 26; Sp. p. 5554; Gaz. vol. 176; p. 997.
Tire, Pneumatic. W. H. Burritt. No. 1,031,685; July 9; Gaz. vol. 180; p. 333.
Tire, Pneumatic. E. Weil. No. 1,034,748; Aug. 6; Gaz. vol. 181; p. 116.
Tire, Pneumatic. J. H. Clune. No. 1,036,455; Aug. 20; Gaz. vol. 181; p. 768.
Tire, Pneumatic. B. B. Hill. No. 1,036,493; Aug. 20; Gaz. vol. 181; p. 781.
Tire, Pneumatic. F. Doherty and W. J. Robbins. No. 1,038,314; Sept. 10; Gaz. vol. 182; p. 414.
Tire, Pneumatic. M. A. Dees. No. 1,040,647; Oct. 8; Gaz. vol. 183; p. 365.
Tire, Pneumatic. A. A. Dennis. No. 1,043,407; Nov. 5; Gaz. vol. 184; p. 129.
Tire, Pneumatic. M. A. Dees. No. 1,045,955; Dec. 3; Gaz. vol. 185; p. 55.
Tire protective covering, Pneumatic-. A. H. Shoemaker. No. 1,014,613; Jan. 9; Sp. p. 3336; Gaz. vol. 174; p. 553.
Tire-protector. D. H. Gabriel. No. 1,014,458; Jan. 9; Sp. p. 3029; Gaz. vol. 174; p. 502.
Tire-protector. R. C. Harris. No. 1,015,178; Jan. 16; Sp. p. 4695; Gaz. vol. 174; p. 776.
Tire-protector. J. L. Barnes. No. 1,016,812; Feb. 6; Sp. p. 1291; Gaz. vol. 175; p. 198.

Tire-protector. R. V. Hastings. No. 1,019,468; Mar. 5; Sp. p. 1063; Gaz. vol. 176; p. 156.
Tire-protector. J. Savoie. No. 1,024,458; Apr. 23; Sp. p. 5771; Gaz. vol. 177; p. 1004.
Tire-protector. W. T. Dorgan. No. 1,027,108; May 21; Sp. p. 4506; Gaz. vol. 178; p. 759.
Tire-protector. A. H. Day. No. 1,031,534; July 2; Gaz. vol. 180; p. 237.
Tire-protector. R. C. Harris. No. 1,038,360; Sept. 10; Gaz. vol. 182; p. 429.
Tire-protector. A. G. Edlund and A. Leafgren. No. 1,039,665; Sept. 24; Gaz. vol. 182; p. 933.
Tire-protector. R. A. Willett. No. 1,040,246; Oct. 1; Gaz. vol. 183; p. 192.
Tire-protector. C. J. Shumaker. No. 1,042,157; Oct. 22; Gaz. vol. 183; p. 940.
Tire-protector. S. Stern. No. 1,044,703; Nov. 19; Gaz. vol. 184; p. 639.
Tire protector or shield. A. H. Morton. No. 1,029,215; June 11; Sp. p. 2482; Gaz. vol. 179; p. 422.
Tire protector, Pneumatic-. C. A. Belew. No. 1,027,800; May 28; Sp. p. 5918; Gaz. vol. 178; p. 1028.
Tire protector, Pneumatic-. A. H. Rawitzer. No. 1,029,027; June 11; Sp. p. 2086; Gaz. vol. 179; p. 359.
Tire protector, Pneumatic-rubber-. J. F. Johnson. No. 1,036,251; Aug. 20; Gaz. vol. 181; p. 698.
Tire protector, Rubber-. J. A. Utter. No. 1,046,686; Dec. 10; Gaz. vol. 185; p. 349.
Tire-puncture finder. F. Miller. No. 1,037,954; Sept. 10; Gaz. vol. 182; p. 295.
Tire-puncture finder. F. Miller. No. 1,037,955; Sept. 10; Gaz. vol. 182; p. 295.
Tire, Puncture-proof. M. De Viese. No. 1,028,334; June 4; Sp. p. 586; Gaz. vol. 179; p. 88.
Tire, Puncture-proof. W. McKay. No. 1,048,423; Dec. 24; Gaz. vol. 185; p. 1004.
Tire puncture-proof casing, Pneumatic-. T. F. Shiels and W. R. Bolter. No. 1,032,955; July 16; Gaz. vol. 180; p. 807.
Tire, Quick-demountable block-. P. B. Bosworth. No. 1,043,061; Nov. 5; Gaz. vol. 184; p. 4.
Tire-removing device. W. L. Tobey. No. 1,036,748; Aug. 27; Gaz. vol. 181; p. 899.
Tire-removing tool. H. Hevey. No. 1,043,424; Nov. 5; Gaz. vol. 184; p. 135.
Tire-repair device. C. F. Jenkins. No. 1,024,078; Apr. 23; Sp. p. 4941; Gaz. vol. 177; p. 876.
Tire-repair device. F. A. Strong. No. 1,030,032; June 18; Sp. p. 4273; Gaz. vol. 179; p. 740.
Tire-repairing case. C. Byrne. No. 1,040,877; Oct. 8; Gaz. vol. 183; p. 438.
Tire-repairing case. C. Byrne. No. 1,040,878; Oct. 8; Gaz. vol. 183; p. 438.
Tire-repairing device, Pneumatic-. G. H. Raflovich. No. 1,048,208; Dec. 24; Gaz. vol. 185; p. 933.
Tire, Resilient. S. S. Scott. No. 1,017,814; Feb. 20; Sp. p. 3496; Gaz. vol. 175; p. 615.
Tire, Resilient. M. C. Rogers. No. 1,018,006; Feb. 20; Sp. p. 3945; Gaz. vol. 175; p. 682.
Tire, Resilient. M. Hanford and D. L. Taylor. No. 1,018,049; Feb. 20; Sp. p. 4039; Gaz. vol. 175; p. 698.
Tire, Resilient. F. Zimmermann. No. 1,018,735; Feb. 27; Sp. p. 5571; Gaz. vol. 175; p. 964.
Tire, Resilient. C. Friederich. No. 1,021,591; Mar. 26; Sp. p. 5515; Gaz. vol. 176; p. 990.
Tire, Resilient. G. S. Adams. No. 1,022,220; Apr. 2; Sp. p. 988; Gaz. vol. 177; p. 159.
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Tire, Resilient. E. E. Hoff. No. 1,022,735; Apr. 9; Sp. p. 2120; Gaz. vol. 177; p. 363.
Tire, Resilient. H. B. Montgomery. No. 1,022,966; Apr. 9; Sp. p. 2598; Gaz. vol. 177; p. 441.
Tire, Resilient. N. Harris. No. 1,024,336; Apr. 23; Sp. p. 5504; Gaz. vol. 177; p. 965.
Tire, Resilient. J. Thissen. No. 1,024,753; Apr. 30; Sp. p. 6496; Gaz. vol. 177; p. 1143.
Tire, Resilient. O. H. Duckworth. No. 1,030,984; July 2; Gaz. vol. 180; p. 47.
Tire, Resilient. C. J. Koopman. No. 1,037,642; Sept. 3; Gaz. vol. 182; p. 157.
Tire, Resilient. E. Rimailho. No. 1,039,805; Oct. 1; Gaz. vol. 183; p. 46.
Tire, Resilient. C. T. Schoen. No. 1,040,432; Oct. 8; Gaz. vol. 183; p. 285.
Tire, Resilient. J. M. O'Rear. No. 1,042,592; Oct. 29; Gaz. vol. 183; p. 1117.
Tire, Resilient. H. A. Stoneham and C. T. Schwarze. No. 1,043,642; Nov. 5; Gaz. vol. 184; p. 212.
Tire, Resilient vehicle-. E. M. Green. No. 1,030,809; June 25; Sp. p. 6255; Gaz. vol. 179; p. 1056.
Tire-retaining device, Clencher-. S. Barnett. No. 1,049,287; Dec. 31; Gaz. vol. 185; p. 1341.
Tire-rim. J. D. Anderson. No. 1,043,658; Nov. 5; Gaz. vol. 184; p. 217.
Tire, Rubber. J. J. Beitler. No. 1,036,516; Aug. 20; Gaz. vol. 181; p. 789.
Tire, Rubber vehicle-. A. Dow. No. 1,024,189; Apr. 23; Sp. p. 5221; Gaz. vol. 177; p. 915.
Tire-sanding machine. G. G. Bertram. No. 1,034,959; Aug. 6; Gaz. vol. 181; p. 187.
Tire, Sectional. B. C. Swinehart. No. 1,045,214; Nov. 26; Gaz. vol. 184; p. 845.
Tire-securing mechanism. L. L. Gregg, Jr. No. 1,029,604; June 18; Sp. p. 3328; Gaz. vol. 179; p. 592.
Tire, Self-inflating and non-collapsible pneumatic. F. F. Wear. No. 1,035,283; Aug. 13; Gaz. vol. 181; p. 326.
Tire-setter. C. A. Devero. No. 1,016,217; Jan. 30; Sp. p. 6822; Gaz. vol. 174; p. 1186.
Tire-setter, Hydraulic edge-grip. H. M. and H. S. Lourie. No. 1,043,613; Nov. 5; Gaz. vol. 184; p. 202.
Tire-setting machine. C. A. Devero. No. 1,026,975; May 21; Sp. p. 4174; Gaz. vol. 178; p. 712.
Tire-setting tool. J. F. Carter. No. 1,017,956; Feb. 20; Sp. p. 3839; Gaz. vol. 175; p. 665.
Tire-shield. C. R. Ragsdale. No. 1,039,671; Sept. 24; Gaz. vol. 182; p. 935.
Tire-shoe support. H. W. Roberts. No. 1,031,469; July 2; Gaz. vol. 180; p. 217.
Tire shoes, Core for manufacturing pneumatic-. W. T. Childs. No. 1,031,983; July 9; Gaz. vol. 180; p. 435.
Tire-shoes, Making cores for manufacturing. R. M. Hinman. No. 1,037,250; Sept. 3; Gaz. vol. 182; p. 26.
Tire-signal. G. T. Hackley. No. 1,044,779; Nov. 19; Gaz. vol. 184; p. 667.
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Tire, Spring-. T. Gilbert-Russell. No. 1,031,436; July 2; Gaz. vol. 180; p. 205.
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Tire, Spring-. P. Tysseling. No. 1,048,238; Dec. 24; Gaz. vol. 185; p. 941.
Tire, Spring-cushion. N. McQueen. No. 1,034,720; Aug. 6; Gaz. vol. 181; p. 106.
Tire, Spring wheel-. W. B. Mallory. No. 1,041,829; Oct. 22; Gaz. vol. 183; p. 831.
Tire-supporting case. F. R. Bolz. No. 1,043,752; Nov. 5; Gaz. vol. 184; p. 249.
Tire-tester. E. H. Neu. No. 1,027,497; May 28; Sp. p. 5295; Gaz. vol. 178; p. 927.
Tire-tightener. T. F. Chrane. No. 1,041,026; Oct. 15; Gaz. vol. 183; p. 523.
Tire-tool. P. E. Kenney. No. 1,020,288; Mar. 12; Sp. p. 2725; Gaz. vol. 176; p. 462.
Tire-tool. A. A. Long. No. 1,025,987; May 14; Sp. p. 1950; Gaz. vol. 178; p. 337.
Tire-tool. J. H. Blake. No. 1,031,233; July 2; Gaz. vol. 180; p. 136.
Tire-tool. A. A. Nelson. No. 1,041,660; Oct. 15; Gaz. vol. 183; p. 735.
Tire traction device. R. Livingston. No. 1,042,016; Oct. 22; Gaz. vol. 183; p. 894.
Tire-tread. J. A. Bowden. No. 1,037,116; Aug. 27; Gaz. vol. 181; p. 1023.
Tire tread, Pneumatic-. A. H. Shoemaker. No. 1,014,912; Jan. 16; Sp. p. 4060; Gaz. vol. 174; p. 687.
Tire tread, Pneumatic-. F. G. Ward. No. 1,021,171; Mar. 26; Sp. p. 4602; Gaz. vol. 176; p. 844.
Tire tubes, Device for repairing pneumatic-. A. R. Hoeft. No. 1,049,090; Dec. 31; Gaz. vol. 185; p. 1275.
Tire-valve, Automobile. C. R. C. Borden. No. 1,045,937; Dec. 3; Gaz. vol. 185; p. 48.
Tire-valve dust-cap, Pneumatic-. S. A. Currin. No. 1,034,209; July 30; Gaz. vol. 180; p. 1297.
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Tire, Vehicle-. G. E. Starn. No. 1,014,345; Jan. 9; Sp. p. 2808; Gaz. vol. 174; p. 464.
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Tire, Vehicle-wheel cushion-. M. J. Selzer. No. 1,026,468; May 14; Sp. p. 3042; Gaz. vol. 178; p. 502.
Tire-vulcanizing apparatus. P. Roussillon. No. 1,039,323; Sept. 24; Gaz. vol. 182; p. 814.
Tire-vulcanizing repair apparatus. C. F. Adamson. No. 1,022,289; Apr. 2; Sp. p. 1128; Gaz. vol. 177; p. 180.
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Tire, Wheel-. H. L. Biener. No. 1,018,292; Feb. 20; Sp. p. 4555; Gaz. vol. 175; p. 782.
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Tire, Wheel-. C. H. Genth. No. 1,045,544; Nov. 26; Gaz. vol. 184; p. 962.
Tire wrapping and unwrapping machine. J. W. Thropp. No. 1,031,491; July 2; Gaz. vol. 180; p. 224.
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Tires, Antiskidding device for motor-vehicle. F. E. Bond. No. 1,046,954; Dec. 10; Gaz. vol. 185; p. 441.
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Tires, Armored tread for pneumatic. B. Sims. No. 1,033,741; July 23; Gaz. vol. 180; p. 1108.
Tires, Automatic elastic check-valve for pneumatic. P. P. Wood. No. 1,041,216; Oct. 15; Gaz. vol. 183; p. 587.
Tires, Check-valve for pneumatic. C. A. Haas. No. 1,043,224; Nov. 5; Gaz. vol. 184; p. 64.
Tires, Detachable rim for pneumatic. W. E. Copithorn. No. 1,013,374; Jan. 2; Sp. p. 629; Gaz. vol. 174; p. 100.
Tires, Detachable rim for pneumatic. P. E. Doolittle. No. 1,018,238; Feb. 20; Sp. p. 4447; Gaz. vol. 175; p. 763.
Tires, Detachable rim for resilient. J. W. Hall and C. Baynes. No. 1,022,842; Apr. 9; Sp. p. 2334; Gaz. vol. 177; p. 399.
Tires, Expansible core for repairing. E. H. Trump. No. 1,047,594; Dec. 17; Gaz. vol. 185; p. 696.
Tires, Means for indicating the deflation of pneumatic. F. H. Treat. No. 1,038,801; Sept. 17; Gaz. vol. 182; p. 619.
Tires for motors and other vehicles, Manufacturing anti-slipping. A. Michelin. No. 1,018,626; Feb. 27; Sp. p. 5340; Gaz. vol. 175; p. 927.
Tires, Grip-tread for elastic. C. L. Hoff. No. 1,035,586; Aug. 13; Gaz. vol. 181; p. 431.
Tires, Inner-tube guard for pneumatic. S. Goodman. No. 1,047,204; Dec. 17; Gaz. vol. 185; p. 557.
Tires, Making pneumatic. W. W. Duncan and A. N. Hood. No. 1,016,918; Feb. 6; Sp. p. 1514; Gaz. vol. 175; p. 234.
Tires, Making vehicle-. J. P. Clare. No. 1,033,230; July 23; Gaz. vol. 180; p. 941.
Tires, Manufacture of resilient. G. D. Rose. No. 1,016,096; Jan. 30; Sp. p. 6607; Gaz. vol. 174; p. 1148.
Tires of vehicle-wheels while in motion, Means for automatically inflating. J. I. Rodway and J. Esson. No. 1,016,364; Feb. 6; Sp. p. 278; Gaz. vol. 175; p. 44.
Tires of vehicles, Mass for filling. R. Zimpel. No. 1,036,170; Aug. 20; Gaz. vol. 181; p. 669.
Tires on wheel-rims, Means for mounting punctureless. B. Dahl. No. 1,043,208; Nov. 5; Gaz. vol. 184; p. 58.
Tires, Outer cover for pneumatic. J. C. Barker. No. 1,021,816; Apr. 2; Sp. p. 141; Gaz. vol. 177; p. 24.
Tires, Protective casing for pneumatic. W. R. Green. No. 1,048,958; Dec. 31; Gaz. vol. 185; p. 1229.
Tires, Protective shoe for. J. A. Murphy and R. J. Harrison. No. 1,049,313; Dec. 31; Gaz. vol. 185; p. 1351.
Tires, Reinforced inner tube for pneumatic. F. H. Hall. No. 1,014,464; Jan. 9; Sp. p. 3039; Gaz. vol. 174; p. 504.
Tires, Repair or reinforcement of. T. E. Cann. No. 1,047,166; Dec. 17; Gaz. vol. 185; p. 542.
Tires, Supporting and retaining device for spare. W. A. Allen. (Reissue.) No. 13,454; Aug. 6; Gaz. vol. 181; p. 243.
Tires, &c., Tread for. G. C. Taylor. No. 1,043,373; Nov. 5; Gaz. vol. 184; p. 117.
Tires, Valve for pneumatic. W. P. and T. A. Hammond. No. 1,035,185; Aug. 13; Gaz. vol. 181; p. 293.
Tires, Wheel-rim for pneumatic. C. G. Kleinschmidt. No. 1,021,783; Apr. 2; Sp. p. 59; Gaz. vol. 177; p. 13.
Titanium and lead and producing the same, Article composed essentially of. A. J. Rossi. No. 1,020,516; Mar. 19; Sp. p. 3191; Gaz. vol. 176; p. 572.
Titanium and silicon, Compound or alloy of. A. J. Rossi. No. 1,019,526; Mar. 5; Sp. p. 1191; Gaz. vol. 176; p. 177.
Titanium and silver and producing the same, Article composed essentially of. A. J. Rossi. No. 1,024,476; Apr. 23; Sp. p. 5821; Gaz. vol. 177; p. 1012.
Titanium and silver and producing the same, Article composed essentially of. A. J. Rossi. No. 1,025,426; May 7; Sp. p. 697; Gaz. vol. 178; p. 111.
Titration apparatus. H. H. Bunzel. No. 1,046,260; Dec. 3; Gaz. vol. 185; p. 161.
Toaster. J. B. Willis. No. 1,014,548; Jan. 9; Sp. p. 3183; Gaz. vol. 174; p. 530.
Toaster, Electric. A. S. Cubitt. No. 1,021,239; Mar. 26; Sp. p. 4746; Gaz. vol. 176; p. 867.
Toasting device. W. R. Jeavons. No. 1,045,296; Nov. 26; Gaz. vol. 184; p. 873.
Tobacco and making same, Artificial. A. Moonelis. No. 1,016,844; Feb. 6; Sp. p. 1347; Gaz. vol. 175; p. 208.
Tobacco-bed-steaming apparatus. J. H. L. Johnson. No. 1,021,529; Mar. 26; Sp. p. 5388; Gaz. vol. 176; p. 970.
Tobacco-beds, Steaming. J. H. L. Johnson. No. 1,021,530; Mar. 26; Sp. p. 5390; Gaz. vol. 176; p. 970.
Tobacco-box. H. Penney. No. 1,015,830; Jan. 30; Sp. p. 6027; Gaz. vol. 174; p. 1052.
Tobacco-box, Combination. W. H. J. Downey. No. 1,043,078; Nov. 5; Gaz. vol. 184; p. 10.
Tobacco box, Plug-. B. F. Miller. No. 1,047,269; Dec. 17; Gaz. vol. 185; p. 580.
Tobacco caddies, Forming plug-. H. J. Penn. No. 1,030,746; June 25; Sp. p. 6063; Gaz. vol. 179; p. 1033.
Tobacco container, Plug-. H. J. Penn. No. 1,030,745; June 25; Sp. p. 6061; Gaz. vol. 179; p. 1032.
Tobacco-cutter. L. L. Cooper. No. 1,047,175; Dec. 17; Gaz. vol. 185; p. 545.
Tobacco-cutting machine. N. Du Brul. No. 1,015,428; Jan. 23; Sp. p. 5166; Gaz. vol. 174; p. 888.
Tobacco, Device for testing the temperature of. J. M. Curphey and J. W. Poince. No. 1,037,210; Sept. 3; Gaz. vol. 182; p. 11.
Tobacco-drying and nicotin-extracting process. R. G. Mewborne. No. 1,039,987; Oct. 1; Gaz. vol. 183; p. 105.
Tobacco-drying apparatus. C. D. Brown. No. 1,017,951; Feb. 20; Sp. p. 3822; Gaz. vol. 175; p. 663.
Tobacco hanging and hoisting apparatus. O. Gates. No. 1,015,553; Jan. 23; Sp. p. 5428; Gaz. vol. 174; p. 930.
Tobacco-holder. C. T. Jacobsen and H. V. Hollings. No. 1,043,434; Nov. 5; Gaz. vol. 184; p. 139.
Tobacco-knife. P. Faucher. No. 1,019,033; Mar. 5; Sp. p. 42; Gaz. vol. 176; p. 10.
Tobacco-lath. H. Small. No. 1,044,586; Nov. 19; Gaz. vol. 184; p. 598.
Tobacco-pipe. L. Richards. No. 1,017,803; Feb. 20; Sp. p. 3480; Gaz. vol. 175; p. 612.
Tobacco-pipe. J. Bachmann. No. 1,021,442; Mar. 26; Sp. p. 5195; Gaz. vol. 176; p. 940.

Tobacco-pipe. H. E. Buttimer. No. 1,027,318; May 21; Sp. p. 4929; Gaz. vol. 178; p. 829.
Tobacco-pipe. O. Kiessig. No. 1,037,493; Sept. 3; Gaz. vol. 182; p. 108.
Tobacco-pipe. H. W. Davenport. No. 1,038,303; Sept. 10; Gaz. vol. 182; p. 411.
Tobacco-pipe. R. D. Grame. No. 1,039,049; Sept. 17; Gaz. vol. 182; p. 700.
Tobacco-pipe. F. R. Schumacher. No. 1,047,577; Dec. 17; Gaz. vol. 185; p. 690.
Tobacco-pipe and cigar and cigarette holder. D. P. Blackwood. No. 1,015,723; Jan. 23; Sp. p. 5803; Gaz. vol. 174; p. 989.
Tobacco-pipe button. W. G. Glenn. No. 1,027,838; May 28; Sp. p. 6002; Gaz. vol. 178; p. 1041.
Tobacco-pipe charger. A. I. Straus. No. 1,015,357; Jan. 23; Sp. p. 5008; Gaz. vol. 174; p. 865.
Tobacco-pouch. G. K. Guinzburg. No. 1,045,020; Nov. 19; Gaz. vol. 184; p. 749.
Tobacco self-transplanter. A. C. Urdahl. No. 1,044,304; Nov. 12; Gaz. vol. 184; p. 470.
Tobacco-smoke-absorption apparatus. W. H. Swett. No. 1,018,996; Feb. 27; Sp. p. 6135; Gaz. vol. 175; p. 1054.
Tobacco-stemming machine. G. F. Eckert. No. 1,032,192; July 9; Gaz. vol. 180; p. 505.
Tobacco-stemming machine. G. F. Eckart. No. 1,044,506; Nov. 19; Gaz. vol. 184; p. 568.
Tobacco-stripping machines, Device for removing gum from cutters of. M. Deiller. No. 1,046,994; Dec. 10; Gaz. vol. 185; p. 452.
Tobacco-tin, Antifraud. C. L. Kristofferson. No. 1,013,405; Jan. 2; Sp. p. 695; Gaz. vol. 174; p. 110.
Tobacco-treating machinery. J. M. Vaughan. No. 1,017,713; Feb. 20; Sp. p. 3219; Gaz. vol. 175; p. 579.
Toe-calk-making apparatus. A. A. Duba. No. 1,047,008; Dec. 10; Gaz. vol. 185; p. 457.
Toe-calk-making machine. H. M. Howlett and A. Laessele. No. 1,025,270; May 7; Sp. p. 353; Gaz. vol. 178; p. 57.
Toe-weight. M. T. Miles. No. 1,049,126; Dec. 31; Gaz. vol. 185; p. 1288.
Toilet article. G. E. Williams. No. 1,034,177; July 30; Gaz. vol. 180; p. 1287.
Toilet-board, Folding. J. L. Parker. No. 1,015,741; Jan. 23; Sp. p. 5843; Gaz. vol. 174; p. 996.
Toilet-case. J. H. Boye. No. 1,033,526; July 23; Gaz. vol. 180; p. 1038.
Toilet-case. T. J. Bossert. No. 1,035,075; Aug. 6; Gaz. vol. 181; p. 224.
Toilet-case for vehicles. M. H. Strong. No. 1,027,362; May 21; Sp. p. 5017; Gaz. vol. 178; p. 845.
Toilet device, Lady's. A. Burnet and H. Temple. No. 1,025,448; May 7; Sp. p. 764; Gaz. vol. 178; p. 118.
Toilet-hood. G. J. Pass. No. 1,023,677; Apr. 16; Sp. p. 4064; Gaz. vol. 177; p. 713.
Toilet, Outdoor. A. A. Kramer. No. 1,013,183; Jan. 2; Sp. p. 185; Gaz. vol. 174; p. 33.
Toilet, Railway-. H. O. Johnson and J. H. Nicholson. No. 1,030,782; June 25; Sp. p. 6186; Gaz. vol. 179; p. 1046.
Toilet-shield, Sanitary. N. D. Hopkinson. No. 1,036,623; Aug. 27; Gaz. vol. 181; p. 858.
Token, charm, or pocket-piece. E. L. Morris. No. 1,016,706; Feb. 6; Sp. p. 1072; Gaz. vol. 175; p. 165.
Tokens or counters, Apparatus for delivering. C. Wigg. No. 1,047,470; Dec. 17; Gaz. vol. 185; p. 652.
Tomato-scalding machine. H. A. Darting. No. 1,015,379; Jan. 23; Sp. p. 5057; Gaz. vol. 174; p. 872.
Tombstone, sign, &c. P. F. Nachtigall. No. 1,021,789; Apr. 2; Sp. p. 69; Gaz. vol. 177; p. 15.
Tone-volume indicator. F. B. Beinkamp and L. L. Harding. No. 1,022,528; Apr. 9; Sp. p. 1636; Gaz. vol. 177; p. 291.
Tongs. A. J. Brouyette. No. 1,013,122; Jan. 2; Sp. p. 63; Gaz. vol. 174; p. 13.
Tongs. W. H. Newville. No. 1,021,790; Apr. 2; Sp. p. 71; Gaz. vol. 177; p. 15.
Tongs. J. Bittner. No. 1,026,488; May 14; Sp. p. 3082; Gaz. vol. 178; p. 508.
Tongs. J. W. Rouse and A. L. King. No. 1,041,353; Oct. 15; Gaz. vol. 183; p. 634.
Tongs. G. Thompson. No. 1,045,640; Nov. 26; Gaz. vol. 184; p. 996.
Tongs, Box-. R. L. Lathrop. No. 1,036,863; Aug. 27; Gaz. vol. 181; p. 938.
Tongs, Casing-. E. J. Bates. No. 1,019,120; Mar. 5; Sp. p. 246; Gaz. vol. 176; p. 39.
Tongs, Casing-. W. G. Jackson. No. 1,046,596; Dec. 10; Gaz. vol. 185; p. 317.
Tongs, Clinker-. J. G. Althouse. No. 1,021,290; Mar. 26; Sp. p. 4851; Gaz. vol. 176; p. 885.
Tongs, Electric welding-. J. A. Osborn. No. 1,042,467; Oct. 29; Gaz. vol. 183; p. 1073.
Tongs, Electric welding-. J. A. Osborn. No. 1,042,468; Oct. 29; Gaz. vol. 183; p. 1073.
Tongs for handling crucibles in glass and like furnace practice. J. B. Loubriat. No. 1,047,257; Dec. 17; Gaz. vol. 185; p. 575.
Tongs, Gaff-. W. L. Marble. No. 1,018,065; Feb. 20; Sp. p. 4090; Gaz. vol. 175; p. 704.
Tongs, Pipe-. H. G. Johnston. No. 1,017,552; Feb. 13; Sp. p. 2903; Gaz. vol. 175; p. 490.
Tongs, Tinner's. E. Allen. No. 1,045,803; Dec. 3; Gaz. vol. 185; p. 3.
Tongue. B. Brown. No. 1,042,763; Oct. 29; Gaz. vol. 183; p. 1177.
Tongue, Adjustable. P. Hansmann. No. 1,039,051; Sept. 17; Gaz. vol. 182; p. 700.
Tongue, Adjustable. P. Hansmann. No. 1,049,297; Dec. 31; Gaz. vol. 185; p. 1345.
Tongue, Adjustable plow-. E. C. Bank. No. 1,030,450; June 25; Sp. p. 5207; Gaz. vol. 179; p. 926.
Tongue construction. B. P. Hanson and N. I. Nelson. No. 1,013,877; Jan. 9; Sp. p. 1764; Gaz. vol. 174; p. 302.
Tongue-lock. A. Dubé. No. 1,022,932; Apr. 9; Sp. p. 2519; Gaz. vol. 177; p. 429.
Tongue snap, Spring-. J. B. Baxter. No. 1,032,369; July 16; Gaz. vol. 180; p. 611.
Tongue steadier, Wagon-. L. Dragon. No. 1,044,505; Nov. 19; Gaz. vol. 184; p. 568.
Tongue-support. J. S. Kurtz. No. 1,048,976; Dec. 31; Gaz. vol. 185; p. 1236.
Tongue-support, Automatic cushion. T. S. Hall. No. 1,039,526; Sept. 24; Gaz. vol. 182; p. 885.
Tongue-support for binders. C. W. Loe. No. 1,048,552; Dec. 31; Gaz. vol. 185; p. 1088.
Tongue support, Hay-stacker-. C. B. Lowe. No. 1,048,084; Dec. 24; Gaz. vol. 185; p. 891.
Tongue support, Wagon or vehicle. D. W. Wilhelm. No. 1,014,928; Jan. 16; Sp. p. 4111; Gaz. vol. 174; p. 692.
Tongue, Vehicle-. J. E. Fuqua. No. 1,044,769; Nov. 19; Gaz. vol. 184; p. 663.
Tongues, Adjustable stub-hounds for wagon-. H. Ball. No. 1,028,659; June 4; Sp. p. 1285; Gaz. vol. 179; p. 198.
Tool. J. Carr. No. 1,016,207; Jan. 30; Sp. p. 6808; Gaz. vol. 174; p. 1183.
Tool. B. F. Segel and O. F. March. No. 1,018,210; Feb. 20; Sp. p. 4389; Gaz. vol. 175; p. 754.
Tool. J. R. Shaw. No. 1,018,932; Feb. 27; Sp. p. 5978; Gaz. vol. 175; p. 1030.
Tool. J. W. Crossley. No. 1,024,120; Apr. 23; Sp. p. 5058; Gaz. vol. 177; p. 891.
Tool. W. Savinkoff. No. 1,043,255; Nov. 5; Gaz. vol. 184; p. 74.
Tool, Adjustable. F. O. Wells. No. 1,046,044; Dec. 3; Gaz. vol. 185; p. 84.
Tool and work, Mechanism for controlling the relative position of a. F. B. Keall. No. 1,048,174; Dec. 24; Gaz. vol. 185; p. 922.
Tool, Animal-handling. W. A. Streeter. No. 1,019,727; Mar. 5; Sp. p. 1561; Gaz. vol. 176; p. 242.
Tool, Assembling-. B. H. Jones. No. 1,013,171; Jan. 2; Sp. p. 167; Gaz. vol. 174; p. 29.
Tool attachment. G. Beuoy. No. 1,025,362; May 7; Sp. p. 570; Gaz. vol. 178; p. 89.
Tool-box. W. S. Smith. No. 1,026,059; May 14; Sp. p. 2131; Gaz. vol. 178; p. 362.
Tool-carrier. G. E. Fogarty. No. 1,027,535; May 28; Sp. p. 5373; Gaz. vol. 178; p. 941.
Tool carrier, Intrenching-. F. R. Batchelder. No. 1,030,223; June 18; Sp. p. 4685; Gaz. vol. 179; p. 806.
Tool-case. M. C. Zange. No. 1,043,891; Nov. 12; Gaz. vol. 184; p. 328.
Tool-chest, Portable. A. S. Hokanson. No. 1,026,264; May 14; Sp. p. 2587; Gaz. vol. 178; p. 433.
Tool clamp, Machine-. G. E. Greenleaf. No. 1,035,784; Aug. 13; Gaz. vol. 181; p. 497.
Tool, Cleaning-. J. D. Drum. No. 1,036,978; Aug. 27; Gaz. vol. 181; p. 976.
Tool, Combination-. W. Jackson and W. E. Fry. No. 1,015,026; Jan. 16; Sp. p. 4317; Gaz. vol. 174; p. 726.
Tool, Combination-. J. F. O'Malley. No. 1,015,205; Jan. 16; Sp. p. 4658; Gaz. vol. 174; p. 786.
Tool, Combination-. S. W. Du Mouchel. No. 1,015,877; Jan. 30; Sp. p. 6125; Gaz. vol. 174; p. 1069.
Tool, Combination-. C. C. O'Hanlon. No. 1,016,765; Feb. 6; Sp. p. 1192; Gaz. vol. 175; p. 183.
Tool, Combination-. G. W. Gilmer, Jr. No. 1,017,093; Feb. 13; Sp. p. 1938; Gaz. vol. 175; p. 333.
Tool, Combination-. F. E. Foor. No. 1,026,347; May 14; Sp. p. 2776; Gaz. vol. 178; p. 463.
Tool, Combination-. T. A. Remington. No. 1,029,767; June 18; Sp. p. 3685; Gaz. vol. 179; p. 650.
Tool, Combination-. J. Boivin. No. 1,032,376; July 16; Gaz. vol. 180; p. 613.
Tool, Combination-. W. Ritschard. No. 1,035,237; Aug. 13; Gaz. vol. 181; p. 310.
Tool, Combination-. J. C. Henderson. No. 1,036,491; Aug. 20; Gaz. vol. 181; p. 781.
Tool, Combination-. C. Bauer. No. 1,039,482; Sept. 24; Gaz. vol. 182; p. 869.
Tool, Combination-. J. W. Chamberlain. No. 1,042,318; Oct. 22; Gaz. vol. 183; p. 992.
Tool, Combination-. J. Stauder. No. 1,042,984; Oct. 29; Gaz. vol. 183; p. 1252.
Tool, Combination-. B. S. and S. Gross. No. 1,047,795; Dec. 17; Gaz. vol. 185; p. 766.
Tool, Compound. A. H. Merrill. No. 1,040,564; Oct. 8; Gaz. vol. 183; p. 332.
Tool-coupling, Rotary. E. W. Wheelock. No. 1,039,342; Sept. 24; Gaz. vol. 182; p. 821.

Alphabetical list of inventions—Continued.

Tool-directing machine. P. J. O'Brien. No. 1,032,933; July 16; Gaz. vol. 180; p. 800.
Tool-driver, Spiral. M. Wolin. No. 1,024,960; Apr. 30; Sp. p. 6921; Gaz. vol. 177; p. 1216.
Tool, Electrically-heated. J. S. Hansen. No. 1,020,603; Mar. 19; Sp. p. 3393; Gaz. vol. 176; p. 602.
Tool, Electrically-heated. J. S. Hansen. No. 1,021,097; Mar. 26; Sp. p. 4433; Gaz. vol. 176; p. 821.
Tool, Electrically-heated. L. F. Parkhurst. No. 1,026,363; May 14; Sp. p. 2824; Gaz. vol. 178; p. 467.
Tool, Electropneumatic. A. Palmros. No. 1,022,000; Apr. 2; Sp. p. 532; Gaz. vol. 177; p. 84.
Tool-feeding device, Pneumatic-. B. C. Sanderson, H. D. Palmer, and A. R. Hodges. No. 1,046,861; Dec. 10; Gaz. vol. 185; p. 409.
Tool, Fluid-actuated. C. T. Carnahan. No. 1,030,871; July 2; Gaz. vol. 180; p. 8.
Tool, Fluid-actuated. C. T. Carnahan. No. 1,031,168; July 2; Gaz. vol. 180; p. 113.
Tool, Fluid-operated. J. W. Canty. No. 1,024,395; Apr. 23; Sp. p. 5601; Gaz. vol. 177; p. 983.
Tool, Fluid-operated. C. B. Richards. No. 1,037,535; Sept. 3; Gaz. vol. 182; p. 121.
Tool, Folding compound. W. L. Marble. No. 1,036,664; Aug. 27; Gaz. vol. 181; p. 873.
Tool, Hand-. E. A. Hoffmann. No. 1,047,634; Dec. 17; Gaz. vol. 185; p. 710.
Tool-handle. J. C. F. Johnson and J. Hartman. No. 1,021,316; Mar. 26; Sp. p. 4898; Gaz. vol. 176; p. 895.
Tool-handle. J. Donoghue. No. 1,035,427; Aug. 13; Gaz. vol. 181; p. 378.
Tool-handle. M. J. Haskins. No. 1,037,759; Sept. 3; Gaz. vol. 182; p. 195.
Tool-handle. A. McDermid. No. 1,042,942; Oct. 29; Gaz. vol. 183; p. 1237.
Tool-handle. Z. Littman. No. 1,045,047; Nov. 19; Gaz. vol. 184; p. 759.
Tool-handle-attaching device. F. H. Fulcher. No. 1,034,992; Aug. 6; Gaz. vol. 181; p. 197.
Tool-handle holder. C. Berry. No. 1,033,661; July 23; Gaz. vol. 180; p. 1083.
Tool-head-securing attachment. R. B. Fageol. No. 1,018,353; Feb. 20; Sp. p. 4661; Gaz. vol. 175; p. 801.
Tool-heater. N. W. Lundy. No. 1,030,257; June 18; Sp. p. 4754; Gaz. vol. 179; p. 818.
Tool-holder. E. L. Mills and J. W. Whitford. No. 1,015,903; Jan. 30; Sp. p. 6189; Gaz. vol. 174; p. 1079.
Tool-holder. F. Seitz. No. 1,017,112; Feb. 13; Sp. p. 1970; Gaz. vol. 175; p. 338.
Tool-holder. A. Sheriff. No. 1,022,511; Apr. 9; Sp. p. 1593; Gaz. vol. 177; p. 285.
Tool-holder. E. Stoecklin. No. 1,022,760; Apr. 9; Sp. p. 2173; Gaz. vol. 177; p. 372.
Tool-holder. J. D. Patnaude. No. 1,025,017; Apr. 30; Sp. p. 7029; Gaz. vol. 177; p. 1235.
Tool-holder. J. M. Wood. No. 1,028,805; June 4; Sp. p. 1582; Gaz. vol. 179; p. 247.
Tool-holder. J. Carr. No. 1,033,875; July 30; Gaz. vol. 180; p. 1181.
Tool-holder. W. Parker. No. 1,036,693; Aug. 27; Gaz. vol. 181; p. 881.
Tool-holder. A. C. Snell. No. 1,038,011; Sept. 10; Gaz. vol. 182; p. 313.
Tool-holder. C. K. Lassiter and F. E. Bocorselski. No. 1,038,158; Sept. 10; Gaz. vol. 182; p. 362.
Tool-holder. J. Zsan. No. 1,040,484; Oct. 8; Gaz. vol. 183; p. 302.
Tool-holder. W. G. Church. No. 1,041,592; Oct. 15; Gaz. vol. 183; p. 711.
Tool-holder. C. Tilssner. No. 1,042,842; Oct. 29; Gaz. vol. 183; p. 1203.
Tool-holder. J. Carr. No. 1,045,813; Dec. 3; Gaz. vol. 185; p. 6.
Tool-holder. S. W. Putnam, 3d, and F. J. Baumis. No. 1,048,734; Dec. 31; Gaz. vol. 185; p. 1151.
Tool-holder, Adjustable. D. and S. Kaaumoana. No. 1,048,173; Dec. 24; Gaz. vol. 185; p. 922.
Tool holder and ejector. F. Barter. No. 1,040,258; Oct. 8; Gaz. vol. 183; p. 226.
Tool holder and heater. J. O. McCoy. No. 1,035,720; Aug. 13; Gaz. vol. 181; p. 476.
Tool-holder and securing device for same. F. F. Clarke. No. 1,013,129; Jan. 2; Sp. p. 80; Gaz. vol. 174; p. 14.
Tool-holder, Combination. W. L. Hane. No. 1,032,898; July 16; Gaz. vol. 180; p. 790.
Tool-holder, Floating. B. Rindfleisch. No. 1,021,848; Apr. 2; Sp. p. 207; Gaz. vol. 177; p. 34.
Tool-holder for tool and like grinding machines. T. Lumsden. No. 1,047,424; Dec. 17; Gaz. vol. 185; p. 635.
Tool holder, Machine-. R. B. Craig. No. 1,029,172; June 11; Sp. p. 2390; Gaz. vol. 179; p. 407.
Tool holder, Reaming-. H. Butler. No. 1,041,015; Oct. 15; Gaz. vol. 183; p. 520.
Tool-holder, Yielding. A. Fritz. No. 1,023,073; Apr. 9; Sp. p. 2806; Gaz. vol. 177; p. 477.
Tool-holding appliance. J. M. Palmer. No. 1,041,153; Oct. 15; Gaz. vol. 183; p. 566.
Tool-holding box. G. H. Bartlett. No. 1,024,388; Apr. 23; Sp. p. 5588; Gaz. vol. 177; p. 980.
Tool-holding means. E. F. Smith. No. 1,018,525; Feb. 27; Sp. p. 5123; Gaz. vol. 175; p. 893.
Tool-housing. A. J. Eslick, Jr. No. 1,028,008; May 28; Sp. p. 6401; Gaz. vol. 178; p. 1098.
Tool, Machine-. A. Kolassa. No. 1,046,394; Dec. 3; Gaz. vol. 185; p. 208.
Tool, Mechanic's. G. F. Cunningham. No. 1,040,284; Oct. 8; Gaz. vol. 183; p. 236.
Tool, Motive-fluid-operated. D. S. Waugh. No. 1,042,512; Oct. 29; Gaz. vol. 183; p. 1089.
Tool or tool-holder, Floating. J. W. Hill. No. 1,041,792; Oct. 22; Gaz. vol. 183; p. 817.
Tool, Pneumatic. J. J. Padbury. No. 1,018,983; Feb. 27; Sp. p. 6107; Gaz. vol. 175; p. 1050.
Tool, Pneumatic impact-. C. K. Pickles. No. 1,029,082; June 11; Sp. p. 2194; Gaz. vol. 179; p. 377.
Tool, Portable geared rotary. J. W. Reed. No. 1,026,831; May 21; Sp. p. 3824; Gaz. vol. 178; p. 662.
Tool, Portable power-driven hand-. E. F. Smith. No. 1,024,151; Apr. 23; Sp. p. 5128; Gaz. vol. 177; p. 901.
Tool rack and gage, Combined. C. H. Driver. No. 1,025,255; May 7; Sp. p. 324; Gaz. vol. 178; p. 52.
Tool-rotating mechanism. G. H. Gilman. No. 1,034,010; July 30; Gaz. vol. 180; p. 1229.
Tool-set. L. F. Lacer. No. 1,019,259; Mar. 5; Sp. p. 552; Gaz. vol. 176; p. 88.
Tool-shank. H. Mueller. No. 1,034,724; Aug. 6; Gaz. vol. 181; p. 108.
Tool-support. F. S. Morris. No. 1,018,258; Feb. 20; Sp. p. 4488; Gaz. vol. 175; p. 770.
Tool-support. J. J. Delehant. No. 1,040,903; Oct. 8; Gaz. vol. 183; p. 447.
Tool-support. A. W. Matthews. No. 1,049,309; Dec. 31; Gaz. vol. 185; p. 1349.
Tool, Tang-driven. E. S. Gross. No. 1,043,098; Nov. 5; Gaz. vol. 184; p. 17.
Tools, Actuating-holder for small. J. E. Booman. No. 1,016,607; Feb. 6; Sp. p. 868; Gaz. vol. 175; p. 130.
Tools, Making. J. de Bosredon. No. 1,025,735; May 7; Sp. p. 1388; Gaz. vol. 178; p. 217.
Tools to handles, Means for attaching blades of. T. J. Fegley and G. O. Leopold. No. 1,041,451; Oct. 15; Gaz. vol. 183; p. 666.
Tooth. L. Davis. No. 1,016,555; Feb. 6; Sp. p. 760; Gaz. vol. 175; p. 112.
Tooth adjuster, Spring-. F. B. Baker. No. 1,031,162; July 2; Gaz. vol. 180; p. 111.
Tooth and crown, Artificial. J. Kohn. No. 1,026,213; May 14; Sp. p. 2489; Gaz. vol. 178; p. 417.
Tooth and making the same, Artificial. H. P. Osborn. No. 1,040,571; Oct. 8; Gaz. vol. 183; p. 334.
Tooth, Artificial. G. W. Todd. No. 1,014,348; Jan. 9; Sp. p. 2813; Gaz. vol. 174; p. 465.
Tooth, Artificial. G. W. Todd. No. 1,016,456; Feb. 6; Sp. p. 505; Gaz. vol. 175; p. 77.
Tooth, Artificial. F. Wikner. No. 1,029,160; June 11; Sp. p. 2367; Gaz. vol. 179; p. 403.
Tooth, Artificial. L. E. Evslin. No. 1,031,332; July 2; Gaz. vol. 180; p. 170.
Tooth, Artificial. F. A. Carter. No. 1,036,562; Aug. 27; Gaz. vol. 181; p. 838.
Tooth, Artificial. T. Goodhugh. No. 1,042,105; Oct. 22; Gaz. vol. 183; p. 924.
Tooth-backings, Tool for fastening metal. G. O. Burlew. No. 1,035,855; Aug. 20; Gaz. vol. 181; p. 559.
Tooth-crown and backing, Artificial. G. Carr. No. 1,035,688; Aug. 13; Gaz. vol. 181; p. 465.
Tooth-crown fastening, Artificial-. J. W. Ivory. No. 1,021,528; Mar. 26; Sp. p. 5386; Gaz. vol. 176; p. 969.
Tooth-facing-attaching device. S. S. Whetstone. No. 1,014,428; Jan. 9; Sp. p. 2972; Gaz. vol. 174; p. 493.
Tooth mold, Artificial-. J. Kohn. No. 1,031,855; July 9; Gaz. vol. 180; p. 392.
Tooth plate, Artificial-. A. C. Buttman. No. 1,016,128; Jan. 30; Sp. p. 6661; Gaz. vol. 174; p. 1158.
Tooth restoration. F. S. Welden. No. 1,045,225; Nov. 26; Gaz. vol. 184; p. 849.
Tooth-separator. J. W. Ivory. No. 1,048,972; Dec. 31; Gaz. vol. 185; p. 1233.
Toothpick-cutting knife. W. C. King. No. 1,037,494; Sept. 3; Gaz. vol. 182; p. 108.
Toothpick-holder. G. A. Rime. No. 1,047,296; Dec. 17; Gaz. vol. 185; p. 591.
Toothpick holder and dispenser. J. Sobretto and C. Lavato. No. 1,034,318; July 30; Gaz. vol. 180; p. 1335.
Toothpick-machine. W. H. Parker. No. 1,035,897; Aug. 20; Gaz. vol. 181; p. 575.
Toothpick-making machine. E. Haupt. No. 1,041,075; Oct. 15; Gaz. vol. 183; p. 540.
Toothpick-packing machines, Sight-glass for. W. W. Tainter. No. 1,033,128; July 23; Gaz. vol. 180; p. 905.
Toothpicks, &c., Machine for stacking. A. H. Hall. No. 1,024,773; Apr. 30; Sp. p. 6538; Gaz. vol. 177; p. 1151.
Toothpicks, Mechanism for stacking and conveying. A. H. Hall. No. 1,024,774; Apr. 30; Sp. p. 6541; Gaz. vol. 177; p. 1151.
Toothpicks, &c., Packing-machine for. M. W. Forster. No. 1,026,665; May 21; Sp. p. 3467; Gaz. vol. 178; p. 605.

Alphabetical list of inventions—Continued.

Top. C. H. Sapper. No. 1,016,960; Feb. 13; Sp. p. 1626; Gaz. vol. 175; p. 285.
Top. A. E. Gibbs. No. 1,021,926; Apr. 2; Sp. p. 362; Gaz. vol. 177; p. 60.
Top. S. R. Coppins. No. 1,038,299; Sept. 10; Gaz. vol. 182; p. 410.
Top. G. P. Schmidt. No. 1,046,657; Dec. 10; Gaz. vol. 185; p. 338.
Top, Gyroscopic. M. L. Hawks. No. 1,022,236; Apr. 2; Sp. p. 1030; Gaz. vol. 177; p. 164.
Top, Spinning-. F. W. Preyer. No. 1,020,660; Mar. 19; Sp. p. 3522; Gaz. vol. 176; p. 621.
Top, Spinning-. W. B. Gilmore. No. 1,023,637; Apr. 16; Sp. p. 4001; Gaz. vol. 177; p. 702.
Top, Spinning-. J. R. Pearsall and A. D. Hill. No. 1,025,299; May 7; Sp. p. 416; Gaz. vol. 178; p. 68.
Top, Spinning-. A. P. O'Brien. No. 1,026,112; May 14; Sp. p. 2264; Gaz. vol. 178; p. 382.
Top, Spinning-. H. Campbell. No. 1,033,671; July 23; Gaz. vol. 180; p. 1086.
Topping-machine. J. Graves and C. C. Reed. No. 1,015,951; Jan. 30; Sp. p. 6286; Gaz. vol. 174; p. 1094.
Topping-machine. E. E. Kilbourn, W. E. Smith, and I. W. Kilbourn. No. 1,035,601; Aug. 13; Gaz. vol. 181; p. 436.
Torch. H. A. Clifford. No. 1,016,613; Feb. 6; Sp. p. 884; Gaz. vol. 175; p. 132.
Torch. O. Bartel. No. 1,023,610; Apr. 16; Sp. p. 3950; Gaz. vol. 177; p. 693.
Torch. C. L. Chester. No. 1,023,622; Apr. 16; Sp. p. 3975; Gaz. vol. 177; p. 698.
Torch. J. Z. Hanson and R. Thorp. No. 1,030,086; June 18; Sp. p. 4404; Gaz. vol. 179; p. 760.
Torch. H. H. Nichols. No. 1,036,514; Aug. 20; Gaz. vol. 181; p. 789.
Torch. G. A. P. Bellon. No. 1,041,579; Oct. 15; Gaz. vol. 183; p. 707.
Torch. J. L. Fusner. No. 1,044,041; Nov. 12; Gaz. vol. 184; p. 380.
Torch. W. C. Bucknam. No. 1,045,506; Nov. 26; Gaz. vol. 184; p. 947.
Torch, Acetylene-. C. Johnson. No. 1,020,559; Mar. 19; Sp. p. 3294; Gaz. vol. 176; p. 588.
Torch, Acetylene-gas. O. H. Skinner. No. 1,046,880; Dec. 10; Gaz. vol. 185; p. 416.
Torch, Blow-. J. G. Breckenridge. No. 1,013,637; Jan. 2; Sp. p. 1186; Gaz. vol. 174; p. 189.
Torch, Contractor's. A. F. Jenkins. No. 1,023,851; Apr. 23; Sp. p. 4443; Gaz. vol. 177; p. 798.
Torch, Cutting-. W. C. Bucknam. No. 1,044,741; Nov. 19; Gaz. vol. 184; p. 652.
Torch, Gasolene blow-. J. E. Flitcroft. No. 1,030,465; June 25; Sp. p. 5239; Gaz. vol. 179; p. 932.
Torch, Hand-. F. C. Binkley. No. 1,040,857; Oct. 8; Gaz. vol. 183; p. 431.
Torch, Igniter-. F. A. Hoya. No. 1,045,794; Nov. 26; Gaz. vol. 184; p. 1048.
Torch, Igniting-. A. S. P. Chenot. No. 1,016,209; Jan. 30; Sp. p. 6810; Gaz. vol. 174; p. 1183.
Torch, Oxyacetylene-. P. F. Willis. No. 1,039,238; Sept. 24; Gaz. vol. 182; p. 784.
Torch, Parade-. F. Dutcher. No. 1,029,051; June 11; Sp. p. 2134; Gaz. vol. 179; p. 367.
Torches, Scraper attachment for. A. Wilson. No. 1,044,326; Nov. 12; Gaz. vol. 184; p. 478.
Torpedo, Aerial. J. A. Linsmeyer. No. 1,038,400; Sept. 10; Gaz. vol. 182; p. 444.
Torpedo and method of and apparatus for its propulsion, Automobile. H. Maxim. No. 1,014,014; Jan. 9; Sp. p. 2063; Gaz. vol. 174; p. 348.
Torpedo, Automobile. G. C. Davison. No. 1,036,082; Aug. 20; Gaz. vol. 181; p. 637.
Torpedo-cane. H. F. Neu. No. 1,025,010; Apr. 30; Sp. p. 7020; Gaz. vol. 177; p. 1233.
Torpedo diving-gear. F. M. Leavitt. No. 1,033,810; July 30; Gaz. vol. 180; p. 1158.
Torpedo, Fiber-case railway signal-. F. Dutcher. No. 1,015,153; Jan. 16; Sp. p. 4560; Gaz. vol. 174; p. 769.
Torpedo-launching tube. E. Schneider. No. 1,024,424; Apr. 23; Sp. p. 5701; Gaz. vol. 177; p. 992.
Torpedo-nets, Device for cutting or destroying. W. Golsteÿn. No. 1,031,997; July 9; Gaz. vol. 180; p. 439.
Torpedo-nets, Device for destroying. W. Golsteÿn. No. 1,034,999; Aug. 6; Gaz. vol. 181; p. 200.
Torpedo-placing machine. J. D. Bell. No. 1,014,561; Jan. 9; Sp. p. 3208; Gaz. vol. 174; p. 534.
Torpedo, Pneumatic. M. Thomsen. No. 1,043,880; Nov. 12; Gaz. vol. 184; p. 324.
Torpedo-stopping device, Automobile-. S. M. Leavitt. No. 1,044,543; Nov. 19; Gaz. vol. 184; p. 582.
Torpedoes, Apparatus for generating motive fluid for automobile. G. C. Davison. No. 1,036,080; Aug. 20; Gaz. vol. 181; p. 636.
Torpedoes, Automatic steering device for. H. W. Shonnard. No. 1,030,134; June 18; Sp. p. 4480; Gaz. vol. 179; p. 775.
Torpedoes, Fire control for. H. W. Shonnard. No. 1,035,647; Aug. 13; Gaz. vol. 181; p. 452.
Torpedoes, Gyroscope for automobile. A. E. Jones. No. 1,025,747; May 7; Sp. p. 1412; Gaz. vol. 178; p. 221.
Torpedoes, Heater for automobile. F. M. Leavitt. No. 1,022,486; Apr. 9; Sp. 1544; Gaz. vol. 177; p. 277.
Torpedoes, Launching. G. C. Davison. No. 1,033,993; July 30; Gaz. vol. 180; p. 1223.
Torpedoes, Motive-fluid-generating apparatus for automobile. G. C. Davison. No. 1,036,081; Aug. 20; Gaz. vol. 181; p. 637.
Torpedoes to aid in the recovery thereof after firing, Mechanical air device for expelling water or other liquids from the heads of. K. Whiting and J. B. Howell. No. 1,023,907; Apr. 23; Sp. p. 4581; Gaz. vol. 177; p. 817.
Tortilla-molding machine. H. G. Collins. No. 1,031,423; July 2; Gaz. vol. 180; p. 201.
Tortilla-molding machine. S. Escamilla. No. 1,036,593; Aug. 27; Gaz. vol. 181; p. 848.
Toupee. L. S. Samuel. No. 1,040,425; Oct. 8; Gaz. vol. 183; p. 283.
Towel-holder. A. M. Larsen. No. 1,036,650; Aug. 27; Gaz. vol. 181; p. 868.
Towel-rack. L. Straub. No. 1,038,984; Sept. 17; Gaz. vol. 182; p. 681.
Towel-rack, Roller. C. Gilbert. No. 1,026,794; May 21; Sp. p. 3752; Gaz. vol. 178; p. 649.
Tower or derrick, Steel. L. C. Moore. No. 1,015,821; Jan. 30; Sp. p. 6006; Gaz. vol. 174; p. 1049.
Tower, Recreation-. C. H. Knight. No. 1,039,545; Sept. 24; Gaz. vol. 182; p. 892.
Towing apparatus. L. V. W. Froger. No. 1,016,619; Feb. 6; Sp. p. 899; Gaz. vol. 175; p. 134.
Towing-machine. R. S. Riley. No. 1,020,928; Mar. 19; Sp. p. 4072; Gaz. vol. 176; p. 712.
Towing system for canals. E. Schildhauer. No. 1,013,901; Jan. 9; Sp. p. 1809; Gaz. vol. 174; p. 310.
Toy. A. J. Wilson. No. 1,013,350; Jan. 2; Sp. p. 580; Gaz. vol. 174; p. 92.
Toy. N. D. Cass. No. 1,016,208; Jan. 30; Sp. p. 6809; Gaz. vol. 174; p. 1183.
Toy. C. W. Wilson. No. 1,016,662; Feb. 6; Sp. p. 988; Gaz. vol. 175; p. 149.
Toy. B. Gaines. No. 1,018,311; Feb. 20; Sp. p. 4588; Gaz. vol. 175; p. 788.
Toy. E. P. Lehmann. No. 1,018,574; Feb. 27; Sp. p. 5239; Gaz. vol. 175; p. 911.
Toy. J. J. Mahan. No. 1,019,266; Mar. 5; Sp. p. 567; Gaz. vol. 176; p. 91.
Toy. G. S. Elliott. No. 1,020,030; Mar. 12; Sp. p. 2181; Gaz. vol. 176; p. 375.
Toy. A. E. Lenz. No. 1,020,613; Mar. 19; Sp. p. 3421; Gaz. vol. 176; p. 605.
Toy. T. J. Michener. No. 1,023,324; Apr. 16; Sp. p. 3379; Gaz. vol. 177; p. 603.
Toy. A. Kelber. No. 1,023,472; Apr. 16; Sp. p. 3659; Gaz. vol. 177; p. 649.
Toy. G. L. Webster. No. 1,023,698; Apr. 16; Sp. p. 4099; Gaz. vol. 177; p. 719.
Toy. H. S. Dauphin. No. 1,025,689; May 7; Sp. p. 1291; Gaz. vol. 178; p. 200.
Toy. F. W. Flegel. No. 1,025,969; May 14; Sp. p. 1920; Gaz. vol. 178; p. 331.
Toy. T. Brown. No. 1,027,589; May 28; Sp. p. 5485; Gaz. vol. 178; p. 959.
Toy. E. Turner. No. 1,030,437; June 25; Sp. p. 5185; Gaz. vol. 179; p. 922.
Toy. R. H. Hazard. No. 1,031,116; July 2; Gaz. vol. 180; p. 95.
Toy. B. A. Mason. No. 1,031,135; July 2; Gaz. vol. 180; p. 102.
Toy. R. R. Essig. No. 1,031,990; July 9; Gaz. vol. 180; p. 437.
Toy. J. Hill. No. 1,032,604; July 16; Gaz. vol. 180; p. 689.
Toy. A. Schultz. No. 1,034,149; July 30; Gaz. vol. 180; p. 1277.
Toy. F. B. Corrao. No. 1,034,586; Aug. 6; Gaz. vol. 181; p. 62.
Toy. G. C. Lasares. No. 1,036,651; Aug. 27; Gaz. vol. 181; p. 868.
Toy. T. H. Harris. No. 1,039,529; Sept. 24; Gaz. vol. 182; p. 886.
Toy. P. B. Tyler. No. 1,039,617; Sept. 24; Gaz. vol. 182; p. 916.
Toy. F. H. Tomlin. No. 1,040,058; Oct. 1; Gaz. vol. 183; p. 129.
Toy. R. B. Weikel. No. 1,040,073; Oct. 1; Gaz. vol. 183; p. 135.
Toy. J. H. Bolton. No. 1,041,582; Oct. 15; Gaz. vol. 183; p. 708.
Toy. W. Sadtler. No. 1,041,677; Oct. 15; Gaz. vol. 183; p. 741.
Toy. H. Torluemke. No. 1,042,294; Oct. 22; Gaz. vol. 183; p. 984.
Toy. J. L. Hofer. No. 1,042,679; Oct. 29; Gaz. vol. 183; p. 1148.
Toy. J. C. Turner. No. 1,043,375; Nov. 5; Gaz. vol. 184; p. 118.
Toy. M. Drexler. No. 1,043,514; Nov. 5; Gaz. vol. 184; p. 169.
Toy. C. F. Denman. No. 1,043,808; Nov. 12; Gaz. vol. 184; p. 299.
Toy. W. C. Robinson. No. 1,044,248; Nov. 12; Gaz. vol. 184; p. 451.

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Toy. E. M. Erdmann. No. 1,047,396; Dec. 17; Gaz. vol. 185; p. 625.
Toy. J. Earl. No. 1,048,397; Dec. 24; Gaz. vol. 185; p. 997.
Toy, Aerial. E. W. Davis. No. 1,014,953; Jan. 16; Sp. p. 4167; Gaz. vol. 174; p. 701.
Toy, Aerial. E. J. Ogden. No. 1,020,775; Mar. 19; Sp. p. 3777; Gaz. vol. 176; p. 662.
Toy, Aerial. G. Heylman. No. 1,033,399; July 23; Gaz. vol. 180; p. 998.
Toy aeroplane. S. M. Traylor. No. 1,033,638; July 23; Gaz. vol. 180; p. 1075.
Toy aeroplane. G. M. Kaiser and A. S. Hecht. No. 1,035,017; Aug. 6; Gaz. vol. 181; p. 205.
Toy airship. F. F. Taylor. No. 1,016,113; Jan. 30; Sp. p. 6635; Gaz. vol. 174; p. 1154.
Toy airship. G. von Glaubitz. No. 1,020,088; Mar. 12; Sp. p. 2302; Gaz. vol. 176; p. 395.
Toy and game. A. N. Pierman. No. 1,032,501; July 16; Gaz. vol. 180; p. 654.
Toy and game device. P. W. Kohloff. No. 1,046,805; Dec. 10; Gaz. vol. 185; p. 391.
Toy animal. H. F. Trowbridge. No. 1,023,401; Apr. 16; Sp. p. 3526; Gaz. vol. 177; p. 628.
Toy, Animated. A. Gund. No. 1,032,205; July 9; Gaz. vol. 180; p. 509.
Toy, Ball and catcher. J. E. Brandt. No. 1,017,376; Feb. 13; Sp. p. 2530; Gaz. vol. 175; p. 429.
Toy bank. F. F. Whittam. No. 1,048,774; Dec. 31; Gaz. vol. 185; p. 1166.
Toy bank, Registering. F. Strauss. No. 1,015,408; Jan. 23; Sp. p. 5126; Gaz. vol. 174; p. 881.
Toy boomerang. G. H. Lee. No. 1,040,702; Oct. 8; Gaz. vol. 183; p. 384.
Toy bottle. W. C. Parsells. No. 1,045,601; Nov. 26; Gaz. vol. 184; p. 981.
Toy buildings, Framework of roofs for. F. A. Richter. No. 1,015,342; Jan. 23; Sp. p. 4982; Gaz. vol. 174; p. 860.
Toy carousel. G. F. Barlow. No. 1,047,149; Dec. 17; Gaz. vol. 185; p. 536.
Toy cycle. O. J. Jackson. No. 1,042,682; Oct. 29; Gaz. vol. 183; p. 1149.
Toy-derrick-operating mechanism. A. Pfeiffer. No. 1,038,949; Sept. 17; Gaz. vol. 182; p. 670.
Toy, Detonating. W. Meis. No. 1,017,683; Feb. 20; Sp. p. 3158; Gaz. vol. 175; p. 569.
Toy device. O. Stein. No. 1,048,600; Dec. 31; Gaz. vol. 185; p. 1104.
Toy drum. I. Schlesinger. No. 1,020,717; Mar. 19; Sp. p. 3650; Gaz. vol. 176; p. 642.
Toy eye-mask. H. Gruenberger. No. 1,037,473; Sept. 3; Gaz. vol. 182; p. 102.
Toy, Figure. J. Hurson. No. 1,019,157; Mar. 5; Sp. p. 332; Gaz. vol. 176; p. 52.
Toy, Figure. H. T. Denlinger. No. 1,024,314; Apr. 23; Sp. p. 5466; Gaz. vol. 177; p. 958.
Toy, Figure. H. L. Haskell. No. 1,026,861; May 21; Sp. p. 3891; Gaz. vol. 178; p. 672.
Toy figure. D. E. Eaton. No. 1,023,420; Apr. 16; Sp. p. 3555; Gaz. vol. 177; p. 633.
Toy figure, Cut. F. Waddington. No. 1,041,917; Oct. 22; Gaz. vol. 183; p. 861.
Toy figures, Means for producing a walking movement in. H. Müller. No. 1,035,098; Aug. 6; Gaz. vol. 181; p. 233.
Toy gun. G. Schrödel. No. 1,029,469; June 11; Sp. p. 3047; Gaz. vol. 179; p. 510.
Toy handkerchief-box. H. A. Young. No. 1,028,416; June 4; Sp. p. 774; Gaz. vol. 179; p. 117.
Trace-holder structure for swingletrees. J. C. James. No. 1,045,848; Dec. 3; Gaz. vol. 185; p. 18.
Toy, Hydrostatic. H. E. Poehlman. No. 1,014,975; Jan. 16; Sp. p. 4215; Gaz. vol. 174; p. 709.
Toy kinematograph. O. Messter. No. 1,020,999; Mar. 26; Sp. p. 4241; Gaz. vol. 176; p. 788.
Toy knitting device. F. C. Rehm. No. 1,022,154; Apr. 2; Sp. p. 856; Gaz. vol. 177; p. 136.
Toy log-rolling apparatus. F. Johnson. No. 1,035,351; Aug. 13; Gaz. vol. 181; p. 352.
Toy, Mechanical. G. Riexinger. No. 1,015,343; Jan. 23; Sp. p. 4983; Gaz. vol. 174; p. 860.
Toy, Mechanical. T. Gensmer. No. 1,020,691; Mar. 19; Sp. p. 3587; Gaz. vol. 176; p. 631.
Toy, Mechanical. E. M. Secor. No. 1,033,479; July 23; Gaz. vol. 180; p. 1023.
Toy, Mechanical. A. F. Kuhl. No. 1,038,603; Sept. 17; Gaz. vol. 182; p. 549.
Toy, Moving. A. Weigel. No. 1,017,066; Feb. 13; Sp. p. 1856; Gaz. vol. 175; p. 322.
Toy, Moving-picture. C. N. Bourgin. No. 1,014,365; Jan. 9; Sp. p. 2851; Gaz. vol. 174; p. 471.
Toy, Musical. W. Bartholomae. No. 1,024,878; Apr. 30; Sp. p. 6752; Gaz. vol. 177; p. 1188.
Toy, Optical. A. F. Victor. No. 1,027,576; May 28; Sp. p. 5466; Gaz. vol. 178; p. 956.
Toy or amusement device. J. G. Hamley. No. 1,028,068; May 28; Sp. p. 6536; Gaz. vol. 178; p. 1116.
Toy or game. F. Hornby. No. 1,022,419; Apr. 9; Sp. p. 1407; Gaz. vol. 177; p. 254.
Toy or game. D. Campbell. No. 1,029,588; June 18; Sp. p. 3286; Gaz. vol. 179; p. 585.
Toy, Paper. I. Schönherz No. 1,037,335; Sept. 3; Gaz. vol. 182; p. 52.
Toy parachute and shovel, Combination. S. Charles. No. 1,030,054; June 18; Sp. p. 4343; Gaz. vol. 179; p. 749.
Toy phonograph. H. Ringel. No. 1,015,587; Jan. 23; Sp. p. 5514; Gaz. vol. 174; p. 943.
Toy pistol. W. R. Atkinson. No. 1,014,739; Jan. 16; Sp. p. 3674; Gaz. vol. 174; p. 627.
Toy pistol. J. Wilcox. No. 1,016,310; Feb. 6; Sp. p. 167; Gaz. vol. 175; p. 25.
Toy pistol. R. A. Moore. No. 1,024,350; Apr. 23; Sp. p. 5528; Gaz. vol. 177; p. 969.
Toy pistol. G. W. Stambaugh. No. 1,024,374; Apr. 23; Sp. p. 5564; Gaz. vol. 177; p. 976.
Toy pistol. P. T. Pederson. No. 1,030,532; June 25; Sp. p. 5444; Gaz. vol. 179; p. 956.
Toy pistol. J. D. Kilgore. No. 1,041,804; Oct. 22; Gaz. vol. 183; p. 822.
Toy, Puzzle. A. L. Pooler. No. 1,033,616; July 23; Gaz. vol. 180; p. 1068.
Toy railway-cars, Automatic coupling for. C. A. Hotchkiss. No. 1,029,545; June 11; Sp. p. 3192; Gaz. vol. 179; p. 535.
Toy, Sounding. J. H. Bevington. No. 1,043,796; Nov. 12; Gaz. vol. 184; p. 294.
Toy, Spinning. C. B. Winzer. No. 1,032,525; July 16; Gaz. vol. 180; p. 662.
Toy telephone. A. E. Redlich. No. 1,037,532; Sept. 3; Gaz. vol. 182; p. 120.
Toy theatrical device. W. J. Burke. No. 1,040,616; Oct. 8; Gaz. vol. 183; p. 351.
Toy, Trick. E. Miller. No. 1,044,801; Nov. 19; Gaz. vol. 184; p. 674.
Toy vehicle. J. L. Yoakum. No. 1,026,545; May 14; Sp. p. 3187; Gaz. vol. 178; p. 527.
Toy vehicle, Convertible. C. J. Dorsey. No. 1,020,027; Mar. 12; Sp. p. 2173; Gaz. vol. 176; p. 374.
Toy vehicles and the like, Apparatus for actuating. C. P. Pfeil. No. 1,022,258; Apr. 2; Sp. p. 1067; Gaz. vol. 177; p. 170.
Toy wagon. C. M. Harbison. No. 1,028,875; June 11; Sp. p. 1746; Gaz. vol. 179; p. 306.
Toy wagon. E. C. Seereiter. No. 1,044,266; Nov. 12; Gaz. vol. 184; p. 457.
Toy wagons, &c., Driving mechanism for. A. Lodge. No. 1,037,028; Aug. 27; Gaz. vol. 181; p. 993.
Toy wheel. E. P. Lehmann. No. 1,018,573; Feb. 27; Sp. p. 5238; Gaz. vol. 175; p. 910.
Toy whistle. V. S. Sacavem. No. 1,039,814; Oct. 1; Gaz. vol. 183; p. 49.
Toy, Wind-wheel. H. C. Geels. No. 1,019,245; Mar. 5; Sp. p. 526; Gaz. vol. 176; p. 83.
Toys, Suspending. E. P. Lehmann. No. 1,041,639; Oct. 15; Gaz. vol. 183; p. 727.
Trace-carrier. W. Sisty. No. 1,013,455; Jan. 2; Sp. p. 796; Gaz. vol. 174; p. 128.
Trace-connector. L. B. Irvin. No. 1,014,709; Jan. 16; Sp. p. 3601; Gaz. vol. 174; p. 617.
Trace-coupling. W. R. Lucy. No. 1,021,319; Mar. 26; Sp. p. 4904; Gaz. vol. 176; p. 896.
Trace-eye protector and spacing-strip, Combined. D. L. Du Val. No. 1,032,473; July 16; Gaz. vol. 180; p. 645.
Trace-fastener. C. O. Hathaway and F. W. Huffaker. No. 1,014,000; Jan. 9; Sp. p. 2041; Gaz. vol. 174; p. 344.
Trace-hanger. H. W. Wells. No. 1,016,591; Feb. 6; Sp. p. 828; Gaz. vol. 175; p. 124.
Tracer, Profile-. V. Bush. No. 1,048,649; Dec. 31; Gaz. vol. 185; p. 1121.
Tracings, Rack for. F. S. Baker. No. 1,037,408; Sept. 3; Gaz. vol. 182; p. 78.
Track-adjuster. J. Contos. No. 1,013,987; Jan. 9; Sp. p. 2008; Gaz. vol. 174; p. 340.
Track-anchor. J. W. Stephenson. No. 1,043,739; Nov. 5; Gaz. vol. 184; p. 243.
Track and car therefor, Revolving. W. H. Williams. No. 1,035,506; Aug. 13; Gaz. vol. 181; p. 404.
Track, Angle-. R. W. Rosebrough. No. 1,032,945; July 16; Gaz. vol. 180; p. 804.
Track appliance. T. Maney. No. 1,020,298; Mar. 12; Sp. p. 2743; Gaz. vol. 176; p. 464.
Track-brake. W. Heinig. No. 1,046,293; Dec. 3; Gaz. vol. 185; p. 172.
Track-circuits, Boot-leg for. F. W. Rutledge and E. E. Ireland. No. 1,043,467; Nov. 5; Gaz. vol. 184; p. 152.
Track-cleaner. L. Isaacs. No. 1,016,411; Feb. 6; Sp. p. 393; Gaz. vol. 175; p. 62.
Track construction. E. F. Davis. No. 1,019,307; Mar. 5; Sp. p. 678; Gaz. vol. 176; p. 106.
Track construction. W. G. Wilson. No. 1,040,082; Oct. 1; Gaz. vol. 183; p. 137.
Track construction and rail-clip. J. Noll. No. 1,026,877; May 21; Sp. p. 3931; Gaz. vol. 178; p. 678.
Track construction and rail-clip. J. Noll. (Reissue.) No. 13,452; July 30; Gaz. vol. 180; p. 1372.
Track-construction machine. J. Burke. No. 1,015,475; Jan. 23; Sp. p. 5278; Gaz. vol. 174; p. 904.
Track-drill. A. R. Paulus. No. 1,034,825; Aug. 6; Gaz. vol. 181; p. 143.

Alphabetical list of inventions—Continued.

Track-fastener. J. J. Hancock. No. 1,048,959; Dec. 31; Gaz. vol. 185; p. 1229.
Track-fastening. A. H. Moffet. No. 1,014,166; Jan. 9; Sp. p. 2388; Gaz. vol. 174; p. 399.
Track-fastening. J. W. Stephenson. No. 1,031,967; July 9; Gaz. vol. 180; p. 430.
Track-fastening. J. W. Stephenson. No. 1,031,968; July 9; Gaz. vol. 180; p. 430.
Track-fastening, U-shaped. A. H. Moffet. No. 1,014,083; Jan. 9; Sp. p. 2222; Gaz. vol. 174; p. 372.
Track for vehicles, Self-laying endless. W. G. Noack. No. 1,014,898; Jan. 16; Sp. p. 4034; Gaz. vol. 174; p. 682.
Track-gage, Adjustable. E. B. Schneider and F. Herrick. No. 1,032,509; July 16; Gaz. vol. 180; p. 657.
Track-grinding machine. W. D. Gherky. No. 1,031,640; July 2; Gaz. vol. 180; p. 274.
Track-inspecting device. J. S. Tyler. No. 1,027,086; May 21; Sp. p. 4462; Gaz. vol. 178; p. 752.
Track instrument. E. C. Weer and H. F. Tansey. No. 1,020,238; Mar. 12; Sp. p. 2630; Gaz. vol. 176; p. 446.
Track-joint. W. Wise. No. 1,027,682; May 28; Sp. p. 5677; Gaz. vol. 178; p. 989.
Track-laying machine. J. H. White and E. N. Barthelemy. No. 1,019,395; Mar. 5; Sp. p. 912; Gaz. vol. 176; p. 134.
Track-laying machine. H. Carlson. No. 1,027,373; May 21; Sp. p. 5039; Gaz. vol. 178; p. 848.
Track-laying machine. L. Gudgell. No. 1,045,397; Nov. 26; Gaz. vol. 184; p. 907.
Track-level machine. J. J. Hill. No. 1,014,648; Jan. 16; Sp. p. 3479; Gaz. vol. 174; p. 596.
Track-lifting jack. G. Carden. No. 1,023,922; Apr. 23; Sp. p. 4622; Gaz. vol. 177; p. 822.
Track-liner. J. W. Gray. No. 1,018,183; Feb. 20; Sp. p. 4348; Gaz. vol. 175; p. 746.
Track-raising machine. J. L. Fox, A. R. Horn, and J. J. Callaghan. No. 1,047,193; Dec. 17; Gaz. vol. 185; p. 552.
Track-sander. C. W. G. King. No. 1,019,258; Mar. 5; Sp. p. 551; Gaz. vol. 176; p. 87.
Track-sander. M. J. Fowler. No. 1,029,284; June 11; Sp. p. 2627; Gaz. vol. 179; p. 445.
Track-sander, Pneumatic. A. S. Conti. No. 1,041,744; Oct. 22; Gaz. vol. 183; p. 799.
Track-sanding apparatus. H. Vissering. No. 1,023,100; Apr. 9; Sp. p. 2860; Gaz. vol. 177; p. 487.
Track-sanding apparatus. F. Rothwell. No. 1,033,197; July 23; Gaz. vol. 180; p. 929.
Track-sanding apparatus, Air. W. A. Sault. No. 1,028,079; May 28; Sp. p. 6563; Gaz. vol. 178; p. 1120.
Track-sanding device. G. C. Miller and W. J. Beattie. No. 1,030,523; June 25; Sp. p. 5424; Gaz. vol. 179; p. 953.
Track-sanding device. B. C. Loring. No. 1,040,554; Oct. 8; Gaz. vol. 183; p. 329.
Track-sanding device, Automatic. F. P. Livingston. No. 1,015,899; Jan. 30; Sp. p. 6177; Gaz. vol. 174; p. 1077.
Track-sanding mechanism for trolley-cars and locomotives. H. Hawthorne. No. 1,029,682; June 18; Sp. p. 3499; Gaz. vol. 179; p. 620.
Track, Sectional. J. E. Evans. No. 1,048,668; Dec. 31; Gaz. vol. 185; p. 1130.
Track structure. V. Angerer. No. 1,031,506; July 2; Gaz. vol. 180; p. 229.
Track structures, Foot-guard for. W. B. Cooke. No. 1,046,980; Dec. 10; Gaz. vol. 185; p. 448.
Track-support. J. G. Brown. No. 1,041,423; Oct. 15; Gaz. vol. 183; p. 656.
Track-suspender. R. F. Scott and A. M. Harrington. No. 1,018,931; Feb. 27; Sp. p. 5977; Gaz. vol. 175; p. 1030.
Track-suspender. A. M. Harrington. No. 1,033,395; July 23; Gaz. vol. 180; p. 996.
Track-sweeper, Electric. A. M. Gardner. No. 1,017,208; Feb. 13; Sp. p. 2186; Gaz. vol. 175; p. 372.
Track switch, Monorail-. H. Sawyer and N. Whichello. No. 1,047,451; Dec. 17; Gaz. vol. 185; p. 644.
Track switch, Overhead-. G. A. Olson. No. 1,034,284; July 30; Gaz. vol. 180; p. 1325.
Track-tie removing and replacing machine. G. J. Bury. No. 1,034,072; July 30; Gaz. vol. 180; p. 1251.
Tracks, Means for use in cleaning tramway-. A. Gardner. No. 1,017,092; Feb. 13; Sp. p. 1936; Gaz. vol. 175; p. 332.
Tracks mounted on wheeled carriers, Endless. J. Montsabré. No. 1,017,443; Feb. 13; Sp. p. 2681; Gaz. vol. 175; p. 454.
Tracks, Suspended. A. H. Neller. No. 1,020,046; Mar. 12; Sp. p. 2211; Gaz. vol. 176; p. 381.
Tracker, Adjustable. P. J. Meahl. No. 1,013,301; Jan. 2; Sp. p. 478; Gaz. vol. 174; p. 75.
Tracker-bar. W. F. Cooper. No. 1,032,467; July 16; Gaz. vol. 180; p. 643.
Tracker-bar. L. B. Doman. No. 1,039,659; Sept. 24; Gaz. vol. 182; p. 931.
Tracker-bar-operating mechanism. F. W. Bull. No. 1,021,747; Mar. 26; Sp. p. 5795; Gaz. vol. 176; p. 1040.
Tracker-board. H. K. Sandell. No. 1,036,152; Aug. 20; Gaz. vol. 181; p. 662.
Tracker-board. A. and O. Philipps. No. 1,038,193; Sept. 10; Gaz. vol. 182; p. 373.
Tracker-board. H. Pierce. (Reissue.) No. 13,491; Nov. 26; Gaz. vol. 184; p. 1051.
Tracker device. G. P. Brand. No. 1,014,942; Jan. 16; Sp. p. 4142; Gaz. vol. 174; p. 697.
Tracker device for sheet-controlled instruments. J. C. Hagey. No. 1,031,923; July 9; Gaz. vol. 180; p. 415
Tracking device. G. P. Brand. No. 1,014,941; Jan. 16; Sp. p. 4138; Gaz. vol. 174; p. 697.
Tracking device. G. P. Brand. No. 1,040,869; Oct. 8; Gaz. vol. 183; p. 435.
Traction and non-skid device. J. W. Reid. No. 1,017,909; Feb. 20; Sp. p. 3739; Gaz. vol. 175; p. 650.
Traction apparatus. C. A. Henneuse. No. 1,041,280; Oct. 15; Gaz. vol. 183; p. 611.
Traction apparatus, Magnetic. D. L. Lindquist. No. 1,043,527; Nov. 5; Gaz. vol. 184; p. 173.
Traction device, Emergency. F. B. Comins. No. 1,046,272; Dec. 3; Gaz. vol. 185; p. 165.
Traction-elevator. C. O. Pearson. No. 1,029,627; June 18; Sp. p. 3377; Gaz. vol. 179; p. 602.
Traction-elevator. C. O. Pearson. No. 1,035,230; Aug. 13; Gaz. vol. 181; p. 307.
Traction-elevator. A. Sundh. No. 1,047,330; Dec. 17; Gaz. vol. 185; p. 605.
Traction-engine. B. Holt. No. 1,026,037; May 14; Sp. p. 2073; Gaz. vol. 178; p. 355.
Traction-engine. B. Holt. No. 1,026,090; May 14; Sp. p. 2217; Gaz. vol. 178; p. 374.
Traction-engine. B. Holt. No. 1,026,091; May 14; Sp. p. 2221; Gaz. vol. 178; p. 375.
Traction-engine. J. F. Boone. No. 1,027,311; May 21; Sp. p. 4912; Gaz. vol. 178; p. 826.
Traction-engine. O. M. Cox. No. 1,028,190; June 4; Sp. p. 296; Gaz. vol. 179; p. 38.
Traction-engine. H. Ford. No. 1,036,480; Aug. 20; Gaz. vol. 181; p. 776.
Traction-engine. C. A. Olson. No. 1,036,691; Aug. 27; Gaz. vol. 181; p. 880.
Traction-engine. W. Durran. No. 1,037,222; Sept. 3; Gaz. vol. 182; p. 15.
Traction-engine. N. R. and R. Getz. No. 1,038,114; Sept. 10; Gaz. vol. 182; p. 346.
Traction-engine. M. Jess. No. 1,038,379; Sept. 10; Gaz. vol. 182; p. 436.
Traction-engine. R. C. De Witt. No. 1,040,650; Oct. 8; Gaz. vol. 183; p. 366.
Traction-engine. B. Cox. No. 1,042,405; Oct. 29; Gaz. vol. 183; p. 1049.
Traction-engine. J. M. Sailer. No. 1,044,578; Nov. 19; Gaz. vol. 184; p. 595.
Traction-engine. J. M. Sailer. No. 1,044,580; Nov. 19; Gaz. vol. 184; p. 596.
Traction-engine, Agricultural automobile. F. Theillier. No. 1,037,080; Aug. 27; Gaz. vol. 181; p. 1010.
Traction-engine for cultivators. H. P. Suhl. No. 1,041,191; Oct. 15; Gaz. vol. 183; p. 579.
Traction-increasing and safety device. A. E. Kintner. No. 1,024,084; Apr. 23; Sp. p. 4955; Gaz. vol. 177; p. 877.
Traction-machine. S. A. and L. C. Grant. No. 1,034,907; Aug. 6; Gaz. vol. 181; p. 168.
Traction-wheel. C. B. Lord. No. 1,019,165; Mar. 5; Sp. p. 353; Gaz. vol. 176; p. 56.
Traction-wheel. J. Beard. No. 1,035,112; Aug. 6; Gaz. vol. 181; p. 236.
Traction-wheel. K. N. Avery. No. 1,036,537; Aug. 27; Gaz. vol. 181; p. 829.
Traction-wheel. W. S. Morton. No. 1,036,682; Aug. 27; Gaz. vol. 181; p. 878.
Traction-wheel. S. M. Bower. No. 1,038,835; Sept. 17; Gaz. vol. 182; p. 631.
Traction-wheel. R. Sedgwick. No. 1,039,200; Sept. 24; Gaz. vol. 182; p. 769.
Traction-wheel. S. H. Hummell. No. 1,039,747; Oct. 1; Gaz. vol. 183; p. 26.
Tractor. W. S. Boyd. No. 1,021,911; Apr. 2; Sp. p. 334; Gaz. vol 177; p. 56.
Tractor. A. Miks. No. 1,041,837; Oct. 22; Gaz. vol. 183; p. 834.
Tractor, Agricultural. A. E. Zock. No. 1,033,976; July 30; Gaz. vol. 180; p. 1217.
Tractor-steering mechanism. A. Hovland. No. 1,041,086; Oct. 15; Gaz. vol. 183; p. 544.
Train-brake. J. G. Buchanan and J. W. Kelker. No. 1,030,565; June 25; Sp. p. 5539; Gaz. vol. 179; p. 967.
Train controlling and signaling system. E. Wittlake. No. 1,047,474; Dec. 17; Gaz. vol. 185; p. 654.
Train-controlling appliance, Moving-. J. F. Kimber. No. 1,045,038; Nov. 19; Gaz. vol. 184; p. 755.
Train-controlling device. A. W. Reiling. No. 1,048,880; Dec. 31; Gaz. vol. 185; p. 1202.
Train-controlling device, Automatic. H. L. Rider. No. 1,021,162; Mar. 26; Sp. p. 4576; Gaz. vol. 176; p. 841.
Train-controlling system, Automatic. F. D. Shindel. No. 1,037,675; Sept. 3; Gaz. vol. 182; p. 167.
Train-indicator. C. B. Elliott and E. E. Clappart. No. 1,030,986; July 2; Gaz. vol. 180; p. 48.
Train-line hanger. J. D. Callahan. No. 1,017,508; Feb. 13; Sp. p. 2822; Gaz. vol. 175; p. 476.
Train-order-catching device. F. J. Rolfe. No. 1,021,745; Mar. 26; Sp. p. 5792; Gaz. vol. 176; p. 1039.

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Train-order deliverer. J. G. Northcutt. No. 1,032,932; July 16; Gaz. vol. 180; p. 800.
Train-order-delivering device. W. T. See. No. 1,026,467; May 14; Sp. p. 3041; Gaz. vol. 178; p. 502.
Train-order holder. J. M. Case. No. 1,025,861; May 7; Sp. p. 1653; Gaz. vol. 178; p. 260.
Train-order holder, Safety. B. E. Merwin and E. P. Doyle. No. 1,043,337; Nov. 5; Gaz. vol. 184; p. 105.
Train-order-pad holder. W. H. Barney. No. 1,038,713; Sept. 17; Gaz. vol. 182; p. 588.
Train-register. E. W. Cole. No. 1,044,141; Nov. 12; Gaz. vol. 184; p. 413.
Train-staff system. V. K. Spicer and V. I. Smart. No. 1,022,605; Apr. 9; Sp. p. 1803; Gaz. vol. 177; p. 316.
Train stop and signal, Automatic. J. A. Demers. No. 1,026,852; May 21; Sp. p. 3876; Gaz. vol. 178; p. 669.
Train-stop, Automatic. L. A. Hawkins. No. 1,027,047; May 21; Sp. p. 4348; Gaz. vol. 178; p. 738.
Train-stop, Automatic. J. W. McKelvey. No. 1,037,504; Sept. 3; Gaz. vol. 182; p. 112.
Train-stopping device. E. Unverricht. No. 1,036,753; Aug. 27; Gaz. vol. 181; p. 901.
Train-stopping mechanism, Electrically-actuated automatic. A. S. Littleton. No. 1,043,017; Oct. 29; Gaz. vol. 183; p. 1263.
Train-stopping mechanism for block-signaling systems. M. Conrad and W. G. Kelly. No. 1,031,672; July 2; Gaz. vol. 180; p. 286.
Train transfer device, Moving-. A. Schelest. No. 1,032,950; July 16; Gaz. vol. 180; p. 805.
Trains, Device for rebrassing freight-. M. F. Gosswiller. No. 1,034,359; July 30; Gaz. vol. 180; p. 1351.
Trammel. G. F. Reese. No. 1,031,198; July 2; Gaz. vol. 180; p 124.
Tramper-press. R. E. Wilson. No. 1,023,056; Apr. 9; Sp. p. 2775; Gaz. vol. 177; p. 472.
Tramway, Cable. S. P. Watt. No. 1,017,831; Feb. 20; Sp. p. 3533; Gaz. vol. 175; p. 621.
Tramway-track. P. Starke. No. 1,038,982; Sept. 17; Gaz. vol. 182; p. 680.
Transfer mechanism. D. F. Crawford. No. 1,035,162; Aug. 13; Gaz. vol. 181; p. 284.
Transfer-press. B. W. Smith. No. 1,025,165; May 7; Sp. p. 118; Gaz. vol. 178; p. 21.
Transfer-tube system. J. F. Skirrow. No. 1,045,205; Nov. 26; Gaz. vol. 184; p. 841.
Transfer-tube system. J. F. Skirrow. No. 1,045,335; Nov. 26; Gaz. vol. 184; p. 886.
Transfer-tube system. J. F. Skirrow. No. 1,045,336; Nov. 26; Gaz. vol. 184; p. 886.
Transferring apparatus, Material-. T. S. Miller. No. 1,013,420; Jan. 2; Sp. p. 732; Gaz. vol. 174; p. 115.
Transformer. C. L. Fortescue. No. 1,013,150; Jan. 2; Sp. p. 118; Gaz. vol. 174; p. 21.
Transformer. M. O. Troy. No. 1,021,221; Mar. 26; Sp. p. 4706; Gaz. vol. 176; p. 861.
Transformer. J. L. Johnson. No. 1,030,091; June 18; Sp. p. 4415; Gaz. vol. 179; p. 762.
Transformer. O. Schaumberg. No. 1,034,934; Aug. 6; Gaz. vol. 181; p. 178.
Transformer. C. Aalborg and O. Schaumberg. No. 1,035,069; Aug. 6; Gaz. vol. 181; p. 222.
Transformer-case. L. H. Burkhart. No. 1,025,679; May 7; Sp. p. 1269; Gaz. vol. 178; p. 197.
Transformer, High-voltage. W. S. Moody. No. 1,019,512; Mar. 5; Sp. p. 1165; Gaz. vol. 176; p. 172.
Transformer, Self-cooled. J. J. Mullen. No. 1,039,577; Sept. 24; Gaz. vol. 182; p. 903.
Transformer, Series. G. A. Burnham. No. 1,017,737; Feb. 20; Sp. p. 3282; Gaz. vol. 175; p. 588.
Transformer, Series. G. A. Burnham. No. 1,036,445; Aug. 20; Gaz. vol. 181; p. 765.
Transformer-terminal. E. G. Winston. No. 1,022,912; Apr. 9; Sp. p. 2476; Gaz. vol. 177; p. 422.
Transforming and transposing device for automatic instruments. B. T. Treahy. No. 1,018,791; Feb. 27; Sp. p. 5692; Gaz. vol. 175; p. 984.
Transit. D. W. Brunton. No. 1,042,079; Oct. 22; Gaz. vol. 183; p. 914.
Transit. S. J. Heinrich. No. 1,047,220; Dec. 17; Gaz. vol. 185; p. 563.
Transmission and control system. H. M. Kinney. No. 1,029,018; June 11; Sp. p. 2070; Gaz. vol. 179; p. 356.
Transmission device. A. H. Le Fever. No. 1,048,184; Dec. 24; Gaz. vol. 185; p. 925.
Transmission mechanism. E. Rounds. No. 1,015,639; Jan. 23; Sp. p. 5625; Gaz. vol. 174; p. 962.
Transmission mechanism. L. E. Schlotterback. No. 1,026,462; May 14; Sp. p. 3030; Gaz. vol. 178; p. 500.
Transmission mechanism. E. Seaver, Jr. No. 1,029,641; June 18; Sp. p. 3399; Gaz. vol. 179; p. 605.
Transmission mechanism. J. G. Coleridge. No. 1,037,869; Sept. 10; Gaz. vol. 182; p. 264.
Transmission mechanism. A. W. Weseman. No. 1,041,927; Oct. 22; Gaz. vol. 183; p. 865.
Transmission-mechanism-controlling means. J. C. Lockyer and J. P. Frank. No. 1,043,445; Nov. 5; Gaz. vol. 184; p. 142.
Transmission mechanism, Frictional. N. F. Roadhouse. No. 1,049,149; Dec. 31; Gaz. vol. 185; p. 1294.
Transmission mechanism, Reversing. N. T. Harrington. No. 1,037,002; Aug. 27; Gaz. vol. 181; p. 984.
Transmission of intelligence, Electric. I. Kitsee. No. 1,015,494; Jan. 23; Sp. p. 5318; Gaz. vol. 174; p. 911.
Transmission of intelligence, Means for. W. E. Frow. No. 1,016,003; Jan. 30; Sp. p. 6400; Gaz. vol. 174; p. 1113.
Transmission system, Mechanical. J. Feldt. No. 1,025,796; May 7; Sp. p. 1512; Gaz. vol. 178; p. 238.
Transmitter and receiver, Combined. W. B. Thompson. No. 1,014,268; Jan. 9; Sp. p. 2616; Gaz. vol. 174; p. 436.
Transmitter-casing. F. Gottschalk. No. 1,045,967; Dec. 3; Gaz. vol. 185; p. 59.
Transmitter for the deaf. H. Tideman. No. 1,036,933; Aug. 27; Gaz. vol. 181; p. 960.
Transmitter-mouthpiece. S. S. Sonneborn. No. 1,031,297; July 2; Gaz. vol. 180; p. 158.
Transmitting apparatus, Levitating. E. Bachelet. No. 1,020,942; Mar. 19; Sp. p. 4101; Gaz. vol. 176; p. 717.
Transmitting apparatus, Levitating. E. Bachelet. No. 1,020,943; Mar. 19; Sp. p. 4104; Gaz. vol. 176; p. 717.
Transom. A. Knox. No. 1,030,096; June 18; Sp. p. 4425; Gaz. vol. 179; p. 764.
Transom-lift. J. A. Dillon. No. 1,017,087; Feb. 13; Sp. p. 1926; Gaz. vol. 175; p. 330.
Transom-lift. G. W. McCarty and D. F. Harness. No. 1,035,719; Aug. 13; Gaz. vol. 181; p. 476.
Transom-lifter. H. Osborne. No. 1,040,570; Oct. 8; Gaz. vol. 183; p. 334.
Transom-lifter. J. Moritz No. 1,040,732; Oct. 8; Gaz. vol. 183; p. 393.
Transom-lifter. J. H. Gartner. No. 1,042,906; Oct. 29; Gaz. vol. 183; p. 1226.
Transom-lifter, &c. A. Fromhold. No. 1,021,308; Mar. 26; Sp. p. 4883; Gaz. vol. 176; p. 892.
Transom-operator. E. E. Bell. No. 1,046,545; Dec. 10; Gaz. vol. 185; p. 299.
Transom-operator. C. F. Hanington. No. 1,046,587; Dec. 10; Gaz. vol. 185; p. 314.
Transparency. L. F. Giroux. No. 1,014,460; Jan. 9; Sp. p. 3032; Gaz. vol. 174; p. 503.
Transparent and translucent bodies, Manufacture of. K. W. Spalteholz. No. 1,021,952; Apr. 2; Sp. p. 430; Gaz. vol. 177; p. 69.
Transplanter. J. T. Matthews. No. 1,038,924; Sept. 17; Gaz. vol. 182; p. 662.
Transplanter. C. N. Weaver. No. 1,044,109; Nov. 12; Gaz. vol. 184; p. 403.
Transplanting-pot. W. C. Hills. No. 1,031,713; July 9; Gaz. vol. 180; p. 342.
Transport, Means of. J. W. Cloud. No. 1,044,022; Nov. 12; Gaz. vol. 184; p. 374.
Transportation system, Cable suspension. F. Neale. No. 1,041,506; Oct. 15; Gaz. vol. 183; p. 684.
Transporting and elevating device. W. H. Strickler. No. 1,017,117; Feb. 13; Sp. p. 1979; Gaz. vol. 175; p. 340.
Trap: *See* Animal-trap; Bath-trap; Bird-trap; Burglar-trap; Drain-trap; Electric trap; Fish-trap; Fly-trap; Fly or insect trap; Gas-trap; Gopher-trap; Insect-trap; Loading-trap; Mail-pouch trap; Minnow-trap; Mole-trap; Mosquito-trap; Pipe-trap; Rat-trap; Refrigerator-trap; Roach-trap; Sewer-trap; Sidewalk-trap; Spring-trap; Steam-trap; Steam and vacuum trap; Target-trap; Vacuum-trap; Valve-trap; Vermin-trap; Wash-stand-trap.
Trap. W. P. Fritchman. No. 1,015,168; Jan. 16; Sp. p. 4583; Gaz. vol. 174; p. 773.
Trap. C. S. Parker. No. 1,015,243; Jan. 16; Sp. p. 4736; Gaz. vol. 174; p. 798.
Trap. G. A. Teel. No. 1,015,916; Jan. 30; Sp. p. 6213; Gaz. vol. 174; p. 1083.
Trap. J. F. Ferguson. No. 1,016,405; Feb. 6; Sp. p. 378; Gaz. vol. 175; p. 60.
Trap. A. Paull. No. 1,019,518; Mar. 5; Sp. p. 1173; Gaz. vol. 176; p. 174.
Trap. L. and R. Eccleston. No. 1,020,029; Mar. 12; Sp. p. 2180; Gaz. vol. 176; p. 375.
Trap. J. M. Kellogg. No. 1,020,356; Mar. 12; Sp. p. 2841; Gaz. vol. 176; p. 482.
Trap. J. D. Niederlitz. No. 1,024,278; Apr. 23; Sp. p. 5407; Gaz. vol. 177; p. 947.
Trap. W. Lundstrom. No. 1,024,689; Apr. 30; Sp. p. 6364; Gaz. vol. 177; p. 1121.
Trap. D. L. Davidson. No. 1,025,055; Apr. 30; Sp. p. 7095; Gaz. vol. 177; p. 1247.
Trap. H. A. Thiberge. No. 1,025,845; May 7; Sp. p. 1609; Gaz. vol. 178; p. 255.
Trap. J. Tippett. No. 1,026,477; May 14; Sp. p. 3066; Gaz. vol. 178; p. 505.
Trap. W. Cholewinski. No. 1,027,181; May 21; Sp. p. 4650; Gaz. vol. 178; p. 781.
Trap. L. Barker. No. 1,027,974; May 28; Sp. p. 6336; Gaz. vol. 178; p. 1087.
Trap. F. Obiols. No. 1,031,728; July 9; Gaz. vol. 180; p. 347.
Trap. D. H. Clippinger. No. 1,031,984; July 9; Gaz. vol. 180; p. 435.
Trap. A. Dixon. No. 1,036,084; Aug. 20; Gaz. vol. 181; p. 638.

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Trap. L. J. Wilson. No. 1,040,478; Oct. 8; Gaz. vol. 183; p. 300.
Trap. J. Griffin. No. 1,041,463; Oct. 15; Gaz. vol. 183; p. 670.
Trap. A. D. Shaeffer. No. 1,041,520; Oct. 15; Gaz. vol. 183; p. 689.
Trap. H. H. Turner. No. 1,041,911; Oct. 22; Gaz. vol. 183; p. 858.
Trap. L. A. Pumpelly. No. 1,044,083; Nov. 12; Gaz. vol. 184; p. 395.
Trap and fixture, Combination. A. Meyer. No. 1,039,169; Sept. 24; Gaz. vol. 182; p. 757.
Trap-cover. R. T. Garrison. No. 1,014,142; Jan. 9; Sp. p. 2342; Gaz. vol. 174; p. 392.
Trap-door. O. W. Meissner. No. 1,022,747; Apr. 9; Sp. p. 2142; Gaz. vol. 177; p. 367.
Trap-door. O. W. Meissner. No. 1,023,951; Apr. 23; Sp. p. 4685; Gaz. vol. 177; p. 832.
Trap-door-operating mechanism. O. W. Meissner. No. 1,035,801; Aug. 13; Gaz. vol. 181; p. 502.
Trap-holder. V. Crites. No. 1,030,165; June 18; Sp. p. 4549; Gaz. vol. 179; p. 785.
Trap poison-receptacle. C. F. Penn and F. P. Rand. No. 1,047,282; Dec. 17; Gaz. vol. 185; p. 586.
Trap-setting implement. G. S. Beemer. No. 1,040,998; Oct. 15; Gaz. vol. 183; p. 514.
Trap-spring. T. H. Hughes. No. 1,048,075; Dec. 24; Gaz. vol. 185; p. 887.
Trapping device. G. M. Rains. No. 1,014,516; Jan. 9; Sp. p. 3132; Gaz. vol. 174; p. 520.
Traveler's companion. C. Nelson. No. 1,028,901; June 11; Sp. p. 1813; Gaz. vol. 179; p. 315.
Traveling-bag. W. Binick. No. 1,019,218; Mar. 5; Sp. p. 465; Gaz. vol. 176; p. 74.
Traveling-bag for bowlers. L. B. Taylor. No. 1,024,536; Apr. 30; Sp. p. 6004; Gaz. vol. 177; p. 1068.
Traveling lubricator for guide-bars. J. H. Hirz. No. 1,045,977; Dec. 3; Gaz. vol. 185; p. 62.
Tray and glass holder, Combination. J. Herrold. No. 1,033,052; July 16; Gaz. vol. 180; p. 841.
Tray, Bottle-. E. Court. No. 1,023,925; Apr. 23; Sp. p. 4626; Gaz. vol. 177; p. 823.
Tray, Candy-holding. R. C. Boeckel. No. 1,023,714; Apr. 16; Sp. p. 4127; Gaz. vol. 177; p. 724.
Tray for cooling-towers. B. F. Hart, Jr. No. 1,040,318; Oct. 8; Gaz. vol. 183; p. 248.
Tray, Pail-. E. L. Bailey. No. 1,016,468; Feb. 6; Sp. p. 531; Gaz. vol. 175; p. 82.
Tray, Wheeled. C. A. Bayler. No. 1,038,267; Sept. 10; Gaz. vol. 182; p. 399.
Trays, boxes, &c., Corner-brace for. J. Courville. No. 1,031,691; July 9; Gaz. vol. 180; p. 335.
Tread, Detachable. O. Moore. No. 1,030,113; June 18; Sp. p. 4453; Gaz. vol. 179; p. 769.
Tread or tire, Building up a resilient. G. D. Rose. No. 1,040,765; Oct. 8; Gaz. vol. 183; p. 404.
Tread, Safety-. H. C. Seipp. No. 1,015,642; Jan. 23; Sp. p. 5630; Gaz. vol. 174; p. 963.
Treadle mechanism. F. M. Furber. No. 1,029,008; June 11; Sp. p. 2050; Gaz. vol. 179; p. 353.
Treadle mechanism. J. A. Byers. No. 1,036,559; Aug. 27; Gaz. vol. 181; p. 837.
Tree: *See* Boot-tree; Shoe-tree; Swingle or double tree; Whiffletree; Whiffle and double tree.
Tree and shrub protector. J. J. Carstens. No. 1,021,447; Mar. 26; Sp. p. 5204; Gaz. vol. 176; p. 941.
Tree-felling machine. J. Wallace. No. 1,039,338; Sept. 24; Gaz. vol. 182; p. 819.
Tree-guard. I. C. Lanhan. No. 1,031,941; July 9; Gaz. vol. 180; p. 421.
Tree-heater. L. M. Wilson. No. 1,023,055; Apr. 9; Sp. p. 2774; Gaz. vol. 177; p. 472.
Tree insect-guard. C. A. Huffmaster. No. 1,043,431; Nov. 5; Gaz. vol. 184; p. 138.
Tree or plant support. J. C. Rowell. No. 1,025,311; May 7; Sp. p. 455; Gaz. vol. 178; p. 72.
Tree-prop. E. Worthington. No. 1,021,650; Mar. 26; Sp. p. 5608; Gaz. vol. 176; p. 1008.
Tree-protector. J. Bouska. No. 1,039,018; Sept. 17; Gaz. vol. 182; p. 691.
Tree-support. E. C. and T. R. Coon. No. 1,040,891; Oct. 8; Gaz. vol. 183; p. 443.
Tree vibration for saving buds and blossoms from frost, System of motor-operated. H. L. Darling. No. 1,027,403; May 28; Sp. p. 5110; Gaz. vol. 178; p. 897.
Trees, Composition for treating. N. Longfeather. No. 1,028,233; June 4; Sp. p. 381; Gaz. vol. 179; p. 54.
Trees, Treating diseased or decayed. L. C. Dickenson. No. 1,047,001; Dec. 10; Gaz. vol. 185; p. 454.
Treeing-machine. J. S. Hansen. No. 1,030,727; June 25; Sp. p. 6018; Gaz. vol. 179; p. 1026.
Treeing-machine. J. S. Hansen. No. 1,030,810; June 25; Sp. p. 6256; Gaz. vol. 179; p. 1056.
Trellis for vines, Adjustable. D. S. Keith. No. 1,048,079; Dec. 24; Gaz. vol. 185; p. 889.
Trenching implement. B. Wermuth and W. M. Brown. No. 1,020,468; Mar. 19; Sp. p. 3092; Gaz. vol. 176; p. 558.
Trestle. O. Zent. No. 1,014,554; Jan. 9; Sp. p. 3194; Gaz. vol. 174; p. 532.
Trestle. R. Kneisley. No. 1,015,191; Jan. 16; Sp. p. 4633; Gaz. vol. 174; p. 781.
Trestle, Dumping-. J. M. Snead and C. Brady. No. 1,013,229; Jan. 2; Sp. p. 309; Gaz. vol. 174; p. 49.
Triangle, Draftsman's. F. S. Crispin. No. 1,032,533; July 16; Gaz. vol. 180; p. 665.
Tricycle. P. McCarty. No. 1,031,280; July 2; Gaz. vol. 180; p. 152.
Trigger mechanism. J. M. Russell. No. 1,022,973; Apr. 9; Sp. p. 2611; Gaz. vol. 177; p. 444.
Trimmer: *See* Cue-trimmer; Hedge-trimmer; Hoof-trimmer; Inseam-trimmer; Lamp-trimmer; Lawn-trimmer; Phonograph-record trimmer; Pie-trimmer; Sewing-machine seam-trimmer; Sod-trimmer; Sole-edge trimmer; Stereotype-plate trimmer; Wick-trimmer.
Trimming device. A. Swensen. No. 1,032,165; July 9; Gaz. vol. 180; p. 495.
Trimming-machine. H. Evans. No. 1,025,968; May 14; Sp. p. 1918; Gaz. vol. 178; p. 331.
Trimming-machine. O. Ashton. No. 1,030,375; June 25; Sp. p. 5047; Gaz. vol. 179; p. 900.
Trimming-machine. F. H. Perry. No. 1,030,605; June 25; Sp. p. 5671; Gaz. vol. 179; p. 982.
Trimming-machine. H. Spühl. No. 1,046,671; Dec. 10; Gaz. vol. 185; p. 343.
Trimming-machine. F. H. Perry. No. 1,047,283; Dec. 17; Gaz. vol. 185; p. 586.
Trimming-machine. F. H. Perry. No. 1,047,982; Dec. 24; Gaz. vol. 185; p. 857.
Trip-coupling. R. J. Hamilton. No. 1,038,356; Sept. 10; Gaz. vol. 182; p. 428.
Trip mechanism. W. H. Smith. No. 1,019,378; Mar. 5; Sp. p. 877; Gaz. vol. 176; p. 129.
Tripod attachment. O. F. Thunberg. No. 1,022,983; Apr. 9; Sp. p. 2626; Gaz. vol. 177; p. 447.
Tripod, Light-fixture. W. R. Miller. No. 1,030,007; June 18; Sp. p. 4219; Gaz. vol. 179; p. 731.
Trocar. C. E. Crowe. No. 1,014,128; Jan. 9; Sp. p. 2321; Gaz. vol. 174; p. 387.
Trolley. E. P. Hinchberger. No. 1,016,747; Feb. 6; Sp. p. 1147; Gaz. vol. 175; p. 177.
Trolley. C. F. Vensel, Jr. No. 1,016,802; Feb. 6; Sp. p. 1270; Gaz. vol. 175; p. 195.
Trolley. H. F. Kunieski and M. Swiecicki. No. 1,018,198; Feb. 20; Sp. p. 4370; Gaz. vol. 175; p. 750.
Trolley. R. McMillen. No. 1,019,509; Mar. 5; Sp. p. 1160; Gaz. vol. 176; p. 171.
Trolley. P. J. A. Schnoor. No. 1,019,848; Mar. 12; Sp. p. 1798; Gaz. vol. 176; p. 314.
Trolley. C. A. Bluhm. No. 1,020,794; Mar. 19; Sp. p. 3808; Gaz. vol. 176; p. 667.
Trolley. H. A. Krause. No. 1,022,144; Apr. 2; Sp. p. 834; Gaz. vol. 177; p. 132.
Trolley. C. C. Snodgrass. No. 1,024,290; Apr. 23; Sp. p. 5426; Gaz. vol. 177; p. 950.
Trolley. P. Szuminsky. No. 1,024,293; Apr. 23; Sp. p. 5431; Gaz. vol. 177; p. 951.
Trolley. W. Schweppe. No. 1,024,368; Apr. 23; Sp. p. 5555; Gaz. vol. 177; p. 974.
Trolley. S. Brauner. No. 1,027,175; May 21; Sp. p. 4638; Gaz. vol. 178; p. 779.
Trolley. S. Rogowski. No. 1,027,281; May 21; Sp. p. 4855; Gaz. vol. 178; p. 817.
Trolley. I. Kocian. No. 1,027,857; May 28; Sp. p. 6083; Gaz. vol. 178; p. 1048.
Trolley. S. D. Stone. No. 1,028,629; June 4; Sp. p. 1222; Gaz. vol. 179; p. 188.
Trolley. J. H. Walker. No. 1,029,408; June 11; Sp. p. 2926; Gaz. vol. 179; p. 489.
Trolley. M. Jakubowski. No. 1,034,241; July 30; Gaz. vol. 180; p. 1310.
Trolley. G. E. Lynch. No. 1,036,286; Aug. 20; Gaz. vol. 181; p. 710.
Trolley. N. B. Coon. No. 1,036,457; Aug. 20; Gaz. vol. 181; p. 769.
Trolley. E. Y. Moore. No. 1,036,505; Aug. 20; Gaz. vol. 181; p. 786.
Trolley. F. Bury. No. 1,037,123; Aug. 27; Gaz. vol. 181; p. 1025.
Trolley. C. A. Lindberg. No. 1,039,975; Oct. 1; Gaz. vol. 183; p. 102.
Trolley. H. Shaffert. No. 1,040,789; Oct. 8; Gaz. vol. 183; p. 411.
Trolley. C. Pauli. No. 1,041,155; Oct. 15; Gaz. vol. 183; p. 567.
Trolley. F. Slonowski. No. 1,042,162; Oct. 22; Gaz. vol. 183; p. 941.
Trolley. W. T. Miller. No. 1,043,023; Oct. 29; Gaz. vol. 183; p. 1266.
Trolley. E. A. Sullivan. No. 1,043,879; Nov. 12; Gaz. vol. 184; p. 324.
Trolley. A. Trible. No. 1,044,298; Nov. 12; Gaz. vol. 184; p. 468.
Trolley. A. F. Bevard. No. 1,044,978; Nov. 19; Gaz. vol. 184; p. 734.
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Trolley. J. Para. No. 1,047,692; Dec. 17; Gaz. vol. 185; p. 731.
Trolley. J. Piotrowski. No. 1,048,732; Dec. 31; Gaz. vol. 185; p. 1150.
Trolley. T. Scherba. No. 1,048,742; Dec. 31; Gaz. vol. 185; p. 1154.
Trolley-adjuster. W. J. Reeder. No. 1,028,785; June 4; Sp. p. 1540; Gaz. vol. 179; p. 240.
Trolley and switch. T. P. Knowland. No. 1,048,176; Dec. 24; Gaz. vol. 185; p. 923.
Trolley-base. C. E. Gierding. No. 1,033,166; July 23; Gaz. vol. 180; p. 918.
Trolley-base. C. O. Dawson and R. Gooding. No. 1,044,148; Nov. 12; Gaz. vol. 184; p. 416.
Trolley-catcher. J. R. Ricketts. No. 1,030,791; June 25; Sp. p. 6207; Gaz. vol. 179; p. 1049.
Trolley-catcher. C. H. Reames. No. 1,038,437; Sept. 10; Gaz. vol. 182; p. 458.
Trolley catcher and replacer. W. J. Scrimshaw. No. 1,042,153; Oct. 22; Gaz. vol. 183; p. 938.
Trolley-contact. F. T. Cope. No. 1,027,103; May 21; Sp. p. 4498; Gaz. vol. 178; p. 757.
Trolley-conveyer switch. H. K. Scholefeld. No. 1,020,453; Mar. 19; Sp. p. 3059; Gaz. vol. 176; p. 554.
Trolley, Electric. L. M. Davis. No. 1,022,357; Apr. 2; Sp. p. 1260; Gaz. vol. 177; p. 202.
Trolley-frog. J. M. Premoshis. No. 1,017,462; Feb. 13; Sp. p. 2735; Gaz. vol. 175; p. 461.
Trolley-frog. F. Guillot. No. 1,022,546; Apr. 9; Sp. p. 1671; Gaz. vol. 177; p. 296.
Trolley-guard. H. H. McNeil. No. 1,028,052; May 28; Sp. p. 6498; Gaz. vol. 178; p. 1111.
Trolley-guard. F. J. Nolan. No. 1,037,969; Sept. 10; Gaz. vol. 182; p. 300.
Trolley-guard. S. C. Distefano. No. 1,040,904; Oct. 8; Gaz. vol. 183; p. 447.
Trolley-guard. W. R. Daggett. No. 1,041,437; Oct. 15; Gaz. vol. 183; p. 661.
Trolley-guard. G. Zeller. No. 1,048,260; Dec. 24; Gaz. vol. 185; p. 949.
Trolley-hanger. R. O. Couch. No. 1,014,569; Jan. 9; Sp. p. 3227; Gaz. vol. 174; p. 537.
Trolley-hanger. R. O. Couch. No. 1,045,262; Nov. 26; Gaz. vol. 184; p. 861.
Trolley-harp. F. E. Murphy. No. 1,016,430; Feb. 6; Sp. p. 426; Gaz. vol. 175; p. 67.
Trolley-harp. T. Bednarowicz. No. 1,017,034; Feb. 13; Sp. p. 1783; Gaz. vol. 175; p. 310.
Trolley-harp. P. Fabrowicz. No. 1,019,619; Mar. 5; Sp. p. 1356; Gaz. vol. 176; p. 206.
Trolley-harp. O. W. Smith. No. 1,021,077; Mar. 26; Sp. p. 4390; Gaz. vol. 176; p. 814.
Trolley-harp. P. A. McCullough. No. 1,026,689; May 21; Sp. p. 3518; Gaz. vol. 178; p. 613.
Trolley-head. H. J. Woolsey. No. 1,020,172; Mar. 12; Sp. p. 2485; Gaz. vol. 176; p. 423.
Trolley-head. R. J. Meyers. No. 1,032,231; July 9; Gaz. vol. 180; p. 510.
Trolley-head. J. C. Mattison. No. 1,033,335; July 23; Gaz. vol. 180; p. 975.
Trolley-head. O. N. Iverson. No. 1,048,314; Dec. 24; Gaz. vol. 185; p. 968.
Trolley-line clamp. C. N. Allerding. No. 1,048,636; Dec. 31; Gaz. vol. 185; p. 1117.
Trolley-line clamp. C. N. Allerding. No. 1,049,189; Dec. 31; Gaz. vol. 185; p. 1307.
Trolley-line construction. J. W. and E. C. Fawkes. No. 1,019,621; Mar. 5; Sp. p. 1361; Gaz. vol. 176; p. 207.
Trolley, Lubricating-. G. H. Merwin. No. 1,037,507; Sept. 3; Gaz. vol. 182; p. 113.
Trolley mechanism. D. T. Fisher. No. 1,045,538; Nov. 26; Gaz. vol. 184; p. 960.
Trolley, Overhead. A. P. Lord, C. A. Lindberg, and J. V. Flanigan. No. 1,026,874; May 21; Sp. p. 3924; Gaz. vol. 178; p. 677.
Trolley, Overhead. R. A. Peglar. No. 1,034,292; July 30; Gaz. vol. 180; p. 1328.
Trolley-pole. M. Melinski. No. 1,013,673; Jan. 2; Sp. p. 1289; Gaz. vol. 174; p. 202.
Trolley-pole. J. Gaits. No. 1,020,411; Mar. 19; Sp. p. 2974; Gaz. vol. 176; p. 539.
Trolley-pole. W. L. Wright. No. 1,036,402; Aug. 20; Gaz. vol. 181; p. 750.
Trolley-pole. E. A. Hornbostel. No. 1,048,164; Dec. 24; Gaz. vol. 185; p. 919.
Trolley-pole. R. M. Craig. No. 1,048,661; Dec. 31; Gaz. vol. 185; p. 1127.
Trolley-pole contruction. A. K. McQuade. No. 1,035,986; Aug. 20; Gaz. vol. 181; p. 603.
Trolley-pole governor. M. O. Dolson. No. 1,049,292; Dec. 31; Gaz. vol. 185; p. 1343.
Trolley-pole retriever. E. B. Wintrode. No. 1,039,346; Sept. 24; Gaz. vol. 182; p. 822.
Trolley-pole. Self-adjusting. G. H. Meredith. No. 1,022,959; Apr. 9; Sp. p. 2582; Gaz. vol. 177; p. 439.
Trolley-pole spring-joint. R. F. Coleman. No. 1,028,189; June 4; Sp. p. 295; Gaz. vol. 179; p. 38.
Trolley-pole stand. E. U. Down. No. 1,046,154; Dec. 3; Gaz. vol. 185; p. 122.
Trolley-poles for electric traction systems. E. M. Munro. No. 1,021,206; Mar. 26; Sp. p. 4664; Gaz. vol. 176; p. 855.
Trolley-poles on wires, Device for holding. W. F. Van Cleave and A. T. Woodall. No. 1,017,711; Feb. 20; Sp. p. 3216; Gaz. vol. 175; p. 578.
Trolley-retainer. A. H. Fletcher. No. 1,019,774; Mar. 12; Sp. p. 1665; Gaz. vol. 176; p. 290.
Trolley-retriever. W. Ashcraft. No. 1,016,467; Feb. 6; Sp. p. 528; Gaz. vol. 175; p. 81.
Trolley-retriever. S. P. Kay. No. 1,026,955; May 21; Sp. p. 4144; Gaz. vol. 178; p. 706.
Trolley-retriever. R. R. Dunlop. No. 1,039,502; Sept. 24; Gaz. vol. 182; p. 876.
Trolley-retriever. J. R. Ricketts. No. 1,041,349; Oct. 15; Gaz. vol. 183; p. 633.
Trolley retriever and catcher. R. Shields. No. 1,023,597; Apr. 16; Sp. p. 3921; Gaz. vol. 177; p. 689.
Trolley-road automatic switch. O. E. Edwards, Jr. No. 1,035,115; Aug. 6; Gaz. vol. 181; p. 237.
Trolley-shifting device. J. Wuermli. No. 1,032,796; July 16; Gaz. vol. 180; p. 756.
Trolley, Sleet-cutting. D. E. Barton. No. 1,038,508; Sept. 10; Gaz. vol. 182; p. 482.
Trolley-splice. E. Heydon. No. 1,036,112; Aug. 20; Gaz. vol. 181; p. 647.
Trolley-supporting mechanism. D. T. Fisher. No. 1,036,477; Aug. 20; Gaz. vol. 181; p. 775.
Trolley switch and crossover, Overhead-. W. M. Simpson. No. 1,042,615; Oct. 29; Gaz. vol. 183; p. 1125.
Trolley-switch mechanism. O. H. West. No. 1,041,929; Oct. 22; Gaz. vol. 183; p. 865.
Trolley-switch, Mechanism-controlled. J. R. Nestor. No. 1,033,262; July 23; Gaz. vol. 180; p. 952.
Trolley switch, Overhead-. E. H. Anderson. No. 1,021,857; Apr. 2; Sp. p. 229; Gaz. vol. 177; p. 38.
Trolley switch, Overhead-. E. Cameron. No. 1,048,801; Nov. 12; Gaz. vol. 184; p. 297.
Trolley switching device, Overhead-. H. E. Ballard. No. 1,032,368; July 16; Gaz. vol. 180; p. 611.
Trolley system, Underground-. A. Kautzký. No. 1,034,016; July 30; Gaz. vol. 180; p. 1232.
Trolley, Trackless. C. A. Ahl. No. 1,014,556; Jan. 9; Sp. p. 3197; Gaz. vol. 174; p. 533.
Trolley-tracks, Switch for I-beam. H. E. Ballard. No. 1,026,239; May 14; Sp. p. 2539; Gaz. vol. 178; p. 425.
Trolley trackway, Overhead-. E. Y. Moore. No. 1,037,036; Aug. 27; Gaz. vol. 181; p. 995.
Trolley-trackway switch. E. Y. Moore. No. 1,015,578; Jan. 23; Sp. p. 5493; Gaz. vol. 174; p. 940.
Trolley turn-table. E. Cameron. No. 1,018,407; Feb. 27; Sp. p. 4812; Gaz. vol. 175; p. 852.
Trolley-wheel. F. M. Cummings. No. 1,020,540; Mar. 19; Sp. p. 3250; Gaz. vol. 176; p. 581.
Trolley-wheel. W. H. Schultze. No. 1,023,338; Apr. 16; Sp. p. 3402; Gaz. vol. 177; p. 607.
Trolley-wheel. W. M. Boyer. No. 1,024,970; Apr. 30; Sp. p. 6937; Gaz. vol. 177; p. 1219.
Trolley-wheel. E. U. Down. No. 1,029,050; June 11; Sp. p. 2133; Gaz. vol. 179; p. 367.
Trolley-wheel. J. S. McCabe. No. 1,030,597; June 25; Sp. p. 5648; Gaz. vol. 179; p. 979.
Trolley-wheel. W. E. Marshall. No. 1,033,333; July 23; Gaz. vol. 180; p. 975.
Trolley-wheel. H. Prack. No. 1,033,344; July 23; Gaz. vol. 180; p. 979.
Trolley-wheel. H. Prack. No. 1,033,345; July 23; Gaz. vol. 180; p. 979.
Trolley-wheel. W. F. Swoveland. No. 1,035,494; Aug. 13; Gaz. vol. 181; p. 401.
Trolley-wheel. J. W. Pennell. No. 1,039,589; Sept. 24; Gaz. vol. 182; p. 907.
Trolley-wheel. H. Holland. No. 1,040,680; Oct. 8; Gaz. vol. 183; p. 377.
Trolley-wheel. C. E. Smith. No. 1,042,492; Oct. 29; Gaz. vol. 183; p. 1082.
Trolley-wheel. G. E. Henry. No. 1,043,103; Nov. 5; Gaz. vol. 184; p. 19.
Trolley-wheel. G. F. Murch. No. 1,043,961; Nov. 12; Gaz. vol. 184; p. 353.
Trolley-wheel. A. H. Fetzer. No. 1,044,158; Nov. 12; Gaz. vol. 184; p. 419.
Trolley-wheel. L. J. Tetlow. No. 1,044,293; Nov. 12; Gaz. vol. 184; p. 467.
Trolley wheel and harp. W. W. Neighbour. No. 1,025,479; May 7; Sp. p. 831; Gaz. vol. 178; p. 130.
Trolley wheel and switch. S. L. Barringer. No. 1,035,767; Aug. 13; Gaz. vol. 181; p. 492.
Trolley-wheel attachment. M. Goerman. No. 1,031,256; July 2; Gaz. vol. 180; p. 144.
Trolley-wheel for electric cars. J. C. Eames. No. 1,022,374; Apr. 2; Sp. p. 1291; Gaz. vol. 177; p. 209.
Trolley-wheel guard. C. G. and V. R. Wittmann. No. 1,043,994; Nov. 12; Gaz. vol. 184; p. 365.
Trolley-wheel retainer. S. A. Findura. No. 1,037,825; Sept. 3; Gaz. vol. 182; p. 216.
Trolley-wheel retainer. J. H. Finch, Jr. No. 1,039,918; Oct. 1; Gaz. vol. 183; p. 83.

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Trolley-wire-cleaning device. N. Malmgren, L. N. Todd, and S. J. Watson. No. 1,030,670; June 25; Sp. p. 5883; Gaz. vol. 179; p. 1006.
Trolley-wire connector. J. Kirby and J. Mayo. No. 1,016,016; Jan. 30; Sp. p. 6426; Gaz. vol. 174; p. 1118.
Trolley-wire hanger. K. L. Curtis. No. 1,032,468; July 16; Gaz. vol. 180; p. 643.
Trolley-wire hanger. C. J. Hixson. No. 1,032,905; July 16; Gaz. vol. 180; p. 792.
Trolley-wire hanger. O. W. Brenizer. No. 1,045,809; Dec. 3; Gaz. vol. 185; p. 5.
Trolley-wire hanger. W. A. McCallum. No. 1,047,546; Dec. 17; Gaz. vol. 185; p. 678.
Trolley-wire hanger. J. Christensen. No. 1,048,656; Dec. 31; Gaz. vol. 185; p. 1124.
Trolley-wire-supporting device. G. W. Cravens. No. 1,019,764; Mar. 12; Sp. p. 1645; Gaz. vol. 176; p. 287.
Trolley-wire suspension. M. Jellinek and J. F. de Tóváros. No. 1,033,104; July 23; Gaz. vol. 180; p. 897.
Trolley-wire suspension device. E. Kindler. No. 1,022,143; Apr. 2; Sp. p. 833; Gaz. vol. 177; p. 132.
Trolley-wire switch or frog. J. Kirby. No. 1,040,212; Oct. 1; Gaz. vol. 183; p. 182.
Trolley-wires and the like, Suspension device for. F. S. Denneen. No. 1,017,741; Feb. 20; Sp. p. 3291; Gaz. vol. 175; p. 589.
Trolley-wires, Clamping-ear for. C. J. Hixson. No. 1,047,523; Dec. 17; Gaz. vol. 185; p. 671.
Trolley-wires, Guard for overhead. A. Gergely. No. 1,048,066; Dec. 24; Gaz. vol. 185; p. 885.
Trolley-wires, Means for removing ice from. J. A. Sloan. No. 1,021,637; Mar. 26; Sp. p. 5586; Gaz. vol. 176; p. 1004.
Trolley-wires, Sag-preventing device for. C. Brizzolara. No. 1,018,869; Feb. 27; Sp. p. 5853; Gaz. vol. 175; p. 1010.
Trolleys, Ice-scraping attachment for. S. A. Bemis. No. 1,046,409; Dec. 3; Gaz. vol. 185; p. 214.
Trombone, Slide-. G. E. Riblet. No. 1,021,890; Apr. 2; Sp. p. 296; Gaz. vol. 177; p. 49.
Trough; *See* Conveying-trough; Drinking-trough; Eaves-trough; Feed-trough; Feeding-trough; Salt-trough; Watering-trough; Watering or feed trough.
Trough and glass-support for glazed structures, Combined. E. Van Noorden. No. 1,049,009; Dec. 31; Gaz. vol. 185; p. 1247.
Trough, flume, conduit, &c. K. J. Thorsby. No. 1,036,029; Aug. 20; Gaz. vol. 181; p. 617.
Trough or open flume. W. Lennon. No. 1,026,957; May 21; Sp. p. 4148; Gaz. vol. 178; p. 707.
Trough or open flume. W. Lennon. No. 1,042,239; Oct. 22; Gaz. vol. 183; p. 967.
Trousers. A. Hoffman. No. 1,017,544; Feb. 13; Sp. p. 2889; Gaz. vol. 175; p. 488.
Trousers. H. Rogers. No. 1,027,904; May 28; Sp. p. 6206; Gaz. vol. 178; p. 1065.
Trousers. P. A. Lewis. No. 1,033,714; July 23; Gaz. vol. 180; p. 1099.
Trousers. A. Page. No. 1,040,747; Oct. 8; Gaz. vol. 183; p. 398.
Trousers-adjusting means. A. E. Bennett. No. 1,015,125; Jan. 16; Sp. p. 4512; Gaz. vol. 174; p. 760.
Trousers creasing and pressing device. M. V. Hammack. No. 1,022,671; Apr. 9; Sp. p. 1944; Gaz. vol. 177; p. 338.
Trousers, Detachable cuff for. J. S. and W. Miller. No. 1,023,864; Apr. 23; Sp. p. 4477; Gaz. vol. 177; p. 802.
Trousers, &c., fastening device. A. Friedman, J. Lieberman, and B. Rose. No. 1,034,353; July 30; Gaz. vol. 180; p. 1349.
Trousers-guard, Adjustable. W. S. Koons. No. 1,014,009; Jan. 9; Sp. p. 2054; Gaz. vol. 174; p. 346.
Trousers-hanger. G. R. Bowman. No. 1,022,295; Apr. 2; Sp. p. 1136; Gaz. vol. 177; p. 181.
Trousers-hanger. R. Sybenga. No. 1,027,223; May 21; Sp. p. 4740; Gaz. vol. 178; p. 796.
Trousers-leg holder. J. F. Cavanagh. No. 1,017,511; Feb. 13; Sp. p. 2832; Gaz. vol. 175; p. 477.
Trousers-pressing device. J. E. Miller. No. 1,038,778; Sept. 17; Gaz. vol. 182; p. 611.
Trousers stretcher. J. J. Pilliod. No. 1,014,024; Jan. 9; Sp. p. 2095; Gaz. vol. 174; p. 351.
Trousers-stretcher. A. M. Stendal. No. 1,015,093; Jan. 16; Sp. p. 4449; Gaz. vol. 174; p. 748.
Trousers stretcher and creaser. A. H. Barber. No. 1,031,511; July 2; Gaz. vol. 180; p. 230.
Trousers-waistband. J. J. Marx. No. 1,046,476; Dec. 10; Gaz. vol. 185; p. 274.
Trowel. W. A. Newton. No. 1,021,945; Apr. 2; Sp. p. 404; Gaz. vol. 177; p. 67.
Trowel. B. C. Currence. No. 1,024,559; Apr. 30; Sp. p. 6077; Gaz. vol. 177; p. 1076.
Trowel. J. Parkhill. No. 1,026,117; May 14; Sp. p. 2274; Gaz. vol. 178; p. 384.
Trowel. J. D. Baugh. No. 1,037,105; Aug. 27; Gaz. vol. 181; p. 1019.
Trowel attachment. I. M. Abram. No. 1,027,396; May 28; Sp. p. 5099; Gaz. vol. 178; p. 895.
Trowel, Putty-. S. F. Wright. No. 1,019,399; Mar. 5; Sp. p. 928; Gaz. vol. 176; p. 135.
Trowel, Surfacing-. J. B. Runner. No. 1,021,557; Mar. 26; Sp. p. 5436; Gaz. vol. 176; p. 979.
Trowels, Manufacturing plasterers'. J. G. Thatford. No. 1,015,654; Jan. 23; Sp. p. 5658; Gaz. vol. 174; p. 967.
Truck. J. Du Roth. No. 1,015,152; Jan. 16; Sp. p. 4559; Gaz. vol. 174; p. 768.
Truck. C. M. Grigg. No. 1,016,490; Feb. 6; Sp. p. 578; Gaz vol. 175; p. 89.
Truck. M. G. Merritt. No. 1,017,160; Feb. 13; Sp. p. 2070; Gaz. vol. 175; p. 356.
Truck. H. Zarling. No. 1,019,114; Mar. 5; Sp. p. 230; Gaz. vol. 176; p. 37.
Truck. S. Botteese. No. 1,023,617; Apr. 16; Sp. p. 3960; Gaz. vol. 177; p. 696.
Truck. G. F. Danielson. No. 1,023,997; Apr. 23; Sp. p. 4777; Gaz. vol. 177; p. 848.
Truck. B. A. Ballinger. No. 1,024,469; Apr. 23; Sp. p. 5806; Gaz. vol. 177; p. 1009.
Truck. W. A. Brandenburg. No. 1,024,614; Apr. 30; Sp. p. 6203; Gaz. vol. 177; p. 1094.
Truck. B. C. Rockwell. No. 1,024,701; Apr. 30; Sp. p. 6386; Gaz. vol. 177; p. 1125.
Truck. W. J. McCoy. No. 1,027,557; May 28; Sp. p. 5410; Gaz. vol. 178; p. 948.
Truck. C. F. Faulkner. No. 1,029,982; June 18; Sp. p. 4174; Gaz. vol. 179; p. 723.
Truck. P. A. Wood. No. 1,033,141; July 23; Gaz. vol. 180; p. 910.
Truck. W. Westman. No. 1,034,548; Aug. 6; Gaz. vol. 181; p. 49.
Truck. A. P. Wyatt. No. 1,035,293; Aug. 13; Gaz. vol. 181; p. 330.
Truck. S. C. Johnson. No. 1,035,352; Aug. 13; Gaz. vol. 181; p. 352.
Truck. B. C. Rockwell. No. 1,035,471; Aug. 13; Gaz vol. 181; p. 393.
Truck. A. L. Clark. No. 1,037,131; Aug. 27; Gaz. vol. 181; p. 1027.
Truck. J. A. Hickey. No. 1,038,137; Sept. 10; Gaz. vol. 182; p. 354.
Truck. C. A. Williams. No. 1,038,809; Sept. 17; Gaz. vol. 182; p. 622.
Truck. J. Taylor. No. 1,048,375; Dec. 24; Gaz. vol. 185; p. 989.
Truck. N. McDougall. No. 1,049,252; Dec. 31; Gaz. vol. 185; p. 1329.
Truck and brake for cable-railways. W. H. Colburn. No. 1,036,075; Aug. 20; Gaz. vol. 181; p. 634.
Truck, Angle road-. R. W. Rosebrough. No. 1,032,944; July 16; Gaz. vol. 180; p. 804.
Truck attachment for carrying beef. E. W. Murphy. No. 1,015,393; Jan. 23; Sp. p. 5088; Gaz. vol. 174; p. 877.
Truck, Auto garbage-. G. W. Lally. No. 1,018,119; Feb. 20; Sp. p. 4203; Gaz. vol. 175; p. 722.
Truck, Automobile-. D. E. Shipley. No. 1,023,045; Apr. 9; Sp. p. 2743; Gaz. vol. 177; p. 468.
Truck, Automobile-. J. Q. Primm. No. 1,037,312; Sept. 3; Gaz. vol. 182; p. 44.
Truck, Automobile jack-. O. H. Ames. No. 1,014,991; Jan. 16; Sp. p. 4245; Gaz. vol. 174; p. 714.
Truck, Automobile jack-. O. H. Ames. No. 1,014,992; Jan. 16; Sp. p. 4246; Gaz. vol. 174; p. 714.
Truck, Baggage-. O. Doty. No. 1,017,858; Feb. 20; Sp. p. 3594; Gaz. vol. 175; p. 630.
Truck, Baggage-. R. W. Kidston. No. 1,024,342; Apr. 23; Sp. p. 5512; Gaz. vol. 177; p. 966.
Truck, Barrel-. P. Myrholm. No. 1,018,260; Feb. 20; Sp. p. 4491; Gaz. vol. 175; p. 771.
Truck, Binder-. H. J. Drager. No. 1,034,986; Aug. 6; Gaz. vol. 181; p. 195.
Truck, Binder-. A. Burger. No. 1,036,444; Aug. 20; Gaz. vol. 181; p. 764.
Truck-body lifter, Automatic. L. P. Cole, Jr. No. 1,049,210; Dec. 31; Gaz. vol. 185; p. 1314.
Truck-bolster. A. E. Ostrander. No. 1,026,823; May 21; Sp. p. 3806; Gaz. vol. 178; p. 659.
Truck-bolster. F. S. Dunham and J. W. Greenough. No. 1,042,207; Oct. 22; Gaz. vol. 183; p. 956.
Truck, Car-. J. C. Barber. No. 1,014,362; Jan. 9; Sp. p. 2845; Gaz. vol. 174; p. 470.
Truck, Car-. S. P. Bush. No. 1,014,807; Jan. 16; Sp. p. 3820; Gaz. vol. 174; p. 650.
Truck, Car-. W. F. Kiesel, Jr. No. 1,016,073; Jan. 30; Sp. p. 6564; Gaz. vol. 174; p. 1139.
Truck, Car-. C. H. Howard and H. M. Pflager. No. 1,016,629; Feb. 6; Sp. p. 926; Gaz. vol. 175; p. 138.
Truck, Car-. C. H. Howard and H. M. Pflager. No. 1,016,630; Feb. 6; Sp. p. 928; Gaz. vol. 175; p. 139.
Truck, Car-. W. C. Gambrel. No. 1,020,276; Mar. 12; Sp. p. 2702; Gaz. vol. 176; p. 458.
Truck, Car-. W. L. Austin. No. 1,022,922; Apr. 9; Sp. p. 2499; Gaz. vol. 177; p. 426.
Truck, Car-. W. Hobson. No. 1,023,019; Apr. 9; Sp. p. 2691; Gaz. vol. 177; p. 459.
Truck, Car-. A. J. McCauley. No. 1,027,746; May 28; Sp. p. 5793; Gaz. vol. 178; p. 1009.
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Truck, Car-. A. J. McCauley. No. 1,028,049; May 28; Sp. p. 6493; Gaz. vol. 178; p. 1111.
Truck, Car-. F. H. Van Sweringen. No. 1,029,325; June 11; Sp. p. 2725; Gaz. vol. 179; p. 461.
Truck, Car-. A. Beasley. No. 1,029,582; June 18; Sp. p. 3277; Gaz. vol. 179; p. 583.
Truck, Car-. W. S. Adams. No. 1,031,830; July 9; Gaz. vol. 180; p. 383.
Truck, Car-. H. M. Pflager. No. 1,032,500; July 16; Gaz. vol. 180; p. 654.
Truck, Car-. F. A. Krause. No. 1,035,018; Aug. 6; Gaz. vol. 181; p. 205.
Truck, Car-. J. C. Barber. No. 1,036,541; Aug. 27; Gaz. vol. 181; p. 830.
Truck, Car-. R. C. Wright and F. E. Stebbins. No. 1,036,768; Aug. 27; Gaz. vol. 181; p. 905.
Truck, Car-. H. W. Blake. No. 1,038,481; Sept. 10; Gaz. vol. 182; p. 473.
Truck, Car-. C. H. Howard and H. M. Pflager. No. 1,039,404; Sept. 24; Gaz. vol. 182; p. 842.
Truck, Car-. F. L. Barber and E. W. Webb. No. 1,039,883; Oct. 1; Gaz. vol. 183; p. 72.
Truck, Car-. G. Komarek. No. 1,042,124; Oct. 22; Gaz. vol. 183; p. 929.
Truck, Car-. J. C. Barber. No. 1,044,848; Nov. 19; Gaz. vol. 184; p. 689.
Truck, Car-. W. H. Yost. No. 1,048,022; Dec. 24; Gaz. vol. 185; p. 870.
Truck, Clamp-. G. Barr. No. 1,022,812; Apr. 9; Sp. p. 2272; Gaz. vol. 177; p. 388.
Truck column, Railway-. A. C. Murphy. No. 1,033,189; July 23; Gaz. vol. 180; p. 926.
Truck construction and insulation. A. L. Bower. No. 1,036,552; Aug. 27; Gaz. vol. 181; p. 834.
Truck construction, Car-. J. W. Bettendorf. No. 1,020,960; Mar. 26; Sp. p. 4163; Gaz. vol. 176; p. 774.
Truck construction, Monorail-trolley-. G. A. True. No. 1,035,922; Aug. 20; Gaz. vol. 181; p. 582.
Truck, Dump-body motor-. R. S. Cassady. No. 1,037,126; Aug. 27; Gaz. vol. 181; p. 1026.
Truck, Electric-motor-driven. W. J. Spangler. No. 1,027,629; May 28; Sp. p. 5559; Gaz. vol. 178; p. 971.
Truck, Elevating-. D. M. Wadlington. No. 1,015,104; Jan. 16; Sp. p. 4470; Gaz. vol. 174; p. 753.
Truck, Elevator-. C. F. Ladwig. No. 1,029,758; June 18; Sp. p. 3670; Gaz. vol. 179; p. 647.
Truck for agricultural implements. J. H. Emert. No. 1,038,325; Sept. 10; Gaz. vol. 182; p. 417.
Truck for automobile-bodies. R. Bettermann. No. 1,029,843; June 18; Sp. p. 3883; Gaz. vol. 179; p. 676.
Truck for corn-binders, Tongue-. F. W. Curtis. No. 1,014 129; Jan. 9; Sp. p. 2323; Gaz. vol. 174; p. 388.
Truck for disk harrows, Transport-. S. D. Needham. No. 1,019,345; Mar. 5; Sp. p. 768; Gaz. vol. 176; p. 118.
Truck for disk harrows, Transportation-. E. M. Heylman. No. 1,020,983; Mar. 26; Sp. p. 4217; Gaz. vol. 176; p. 783.
Truck for garbage-cans. M. T. Lyon. No. 1,013,605; Jan. 2; Sp. p. 1109; Gaz. vol. 174; p. 178.
Truck for hydraulic presses, Feeding-. W. P. Bettendorf. No. 1,030,768; June 25; Sp. p. 6126; Gaz. vol. 179; p. 1040.
Truck for monorailway-cars. P. Barnes. No. 1,043,793; Nov. 12; Gaz. vol. 184; p. 294.
Truck for vehicles, Fore. S. K. Dennis. No. 1,017,516; Feb. 13; Sp. p. 2839; Gaz. vol. 175; p. 479.
Truck for vehicles, Front-wheeled. S. K. Dennis. No. 1,014,209; Jan. 9; Sp. p. 2474; Gaz. vol. 174; p. 416.
Truck, Four-wheel. H. E. Doerr. No. 1,015,010; Jan. 16; Sp. p. 4289; Gaz. vol. 174; p. 721.
Truck, Four-wheel. H. E. Doerr. No. 1,030,394; June 25; Sp. p. 5088; Gaz. vol. 179; p. 907.
Truck-frame. H. S. Hart. No. 1,026,744; May 21; Sp. p. 3634; Gaz. vol. 178; p. 632.
Truck-frame and journal-box. L. G. Woods. No. 1,047,362; Dec. 17; Gaz. vol. 185; p. 615.
Truck frame, Car-. C. H. Howard and H. M. Pflager. No. 1,029,869; June 18; Sp. p. 3934; Gaz. vol. 179; p. 685.
Truck, Gum-. J. W. McDaniel. No. 1,020,509; Mar. 19; Sp. p. 3178; Gaz. vol. 176; p. 571.
Truck, Hand-. F. G. Koehler. No. 1,014,400; Jan. 9; Sp. p. 2923; Gaz. vol. 174; p. 484.
Truck, Hand-. F. G. Koehler. No. 1,033,421; July 23; Gaz. vol. 180; p. 1004.
Truck, Hand-. F. M. Gunn. No. 1,043,694; Nov. 5; Gaz. vol. 184; p. 229.
Truck-handle clamp. J. W. Butcher, Jr. No. 1,020,961; Mar. 26; Sp. p. 4165; Gaz. vol. 176; p. 775.
Truck, Harvester-. J. H. Downing. No. 1,029,534; June 11; Sp. 3165; Gaz. vol. 179; p. 531.
Truck-locking device, Engine-. G. E. Reid. No. 1,026,366; May 14; Sp. p. 2828; Gaz. vol. 178; p. 468.
Truck, Locomotive-. J. Walton. No. 1,025,600; May 7; Sp. p. 1106; Gaz. vol. 178; p. 171.
Truck, Logging-railway. C. Berryman. No. 1,022,395; Apr. 2; Sp. p. 1330; Gaz. vol. 177; p. 216.
Truck, Low-hung motor-. S. J. Levy. No. 1,038,162; Sept. 10; Gaz. vol. 182; p. 363.
Truck, Luggage-. A. Alexander. No. 1,043,038; Oct. 29; Gaz. vol. 183; p. 1272.
Truck, Lumber-. F. W. Karches. No. 1,036,636; Aug. 27; Gaz. vol. 181; p. 862.
Truck, Lumber-. J. A. McGarry. No. 1,041,319; Oct. 15; Gaz. vol. 183; p. 624.
Truck mechanism. F. C. Warne. No. 1,021,563; Mar. 26; Sp. p. 5447; Gaz. vol. 176; p. 981.
Truck members on endless-band wheels, Means for mounting. W. C. Matteson. No. 1,020,105; Mar. 12; Sp. p. 2342; Gaz. vol. 176; p. 401.
Truck, Motor-. C. W. Hunt. No. 1,020,607; Mar. 19; Sp. p. 3399; Gaz. vol. 176; p. 603.
Truck, Motor-. F. H. Doane. No. 1,033,556; July 23; Gaz. vol. 180; p. 1048.
Truck, Motor-. G. B. Francis and B. H. Smith. No. 1,042,335; Oct. 22; Gaz. vol. 183; p. 998.
Truck, Motor-. J. W. Linn. No. 1,045,992; Dec. 3; Gaz. vol. 185; p. 66.
Truck or bier, Casket. E. Edmonson. No. 1,023,070; Apr. 9; Sp. p. 2802; Gaz. vol. 177; p. 476.
Truck or undercarriage for railway, tramway, and mining vehicles, Axle-. J. S. Warner. No. 1,022,054; Apr. 2; Sp. p. 643; Gaz. vol. 177; p. 102.
Truck, Pallet-. J. L. Neble and A. Hansen. No. 1,021,880; Apr. 2; Sp. p. 279; Gaz. vol. 177; p. 45.
Truck, Piano-. A. T. Raynor. No. 1,035,903; Aug. 20; Gaz. vol. 181; p. 577.
Truck, Pole-. D. E. Edwards. No. 1,048,951; Dec. 31; Gaz. vol. 185; p. 1226.
Truck, Railway-car. W. P. Bettendorf. No. 1,032,348; July 9; Gaz. vol. 180; p. 559.
Truck, Railway-car. W. H. Armstrong. No. 1,036,952; Aug. 27; Gaz. vol. 181; p. 966.
Truck, Railway-car. W. E. Coffin. No. 1,049,209; Dec. 31; Gaz. vol. 185; p. 1314.
Truck, Roller-. J. A. Dodd. No. 1,017,517; Feb. 13; Sp. p. 2840; Gaz. vol. 175; p. 479.
Truck, Shop-. J. C. Larson. No. 1,015,966; Jan. 30; Sp. p. 6320; Gaz. vol. 174; p. 1100.
Truck side frame. J. M. Ames. No. 1,021,125; Mar. 26; Sp. p. 4491; Gaz. vol. 176; p. 829.
Truck side frame, Car-. G. Komarek. No. 1,014,067; Jan. 9; Sp. p. 2191; Gaz. vol. 174; p. 366.
Truck side frame, Car-. O. S. Pulliam. No. 1,023,481; Apr. 16; Sp. p. 3680; Gaz. vol. 177; p. 652.
Truck side frame, Car-. W. R. Van Housen and H. A. Bower. No. 1,044,305; Nov. 12; Gaz. vol. 184; p. 471.
Truck side frame, Railway-. A. C. Murphy. No. 1,034,488; Aug. 6; Gaz. vol. 181; p. 29.
Truck, Six-wheel. H. E. Doerr. No. 1,046,153; Dec. 3; Gaz. vol. 185; p. 122.
Truck, Six-wheel car-. H. Pearson. No. 1,017,312; Feb. 13; Sp. p. 2399; Gaz. vol. 175; p. 408.
Truck, Stone-. C. C. McBride. No. 1,023,024; Apr. 9; Sp. p. 2699; Gaz. vol. 177; p. 461.
Truck, Stove-. J. Benskin. No. 1,014,440; Jan. 9; Sp. p. 2995; Gaz. vol. 174; p. 497.
Truck, Tongue-. A. H. Snook and C. O. Tripp. No. 1,014,672; Jan. 16; Sp. p. 3528; Gaz. vol. 174; p. 605.
Truck, Tongue-. F. H. Stajgr. No. 1,047,324; Dec. 17; Gaz. vol. 185; p. 602.
Truck-unloading device. E. B. Ayres. No. 1,018,862; Feb. 27; Sp. p. 5841; Gaz. vol. 175; p. 1008.
Truck, Vehicle-. E. G. Schreiber. No. 1,040,435; Oct. 8; Gaz. vol. 183; p. 286.
Truck, Weighing-. T. A. Brunt. No. 1,020,597; Mar. 19; Sp. p. 3383; Gaz. vol. 176; p. 601.
Trucks, Means for loading and unloading. R. L. Morgan. No. 1,030,320; June 25; Sp. p. 4932; Gaz. vol. 179; p. 880.
Trucks or rail-cars, Driving-gear for electrically-actuated. W. J. Spangler. No. 1,031,882; July 9; Gaz. vol. 180; p. 402.
Trucks, Pivoted rear traction-. P. E. Holt. No. 1,024,990; Apr. 30; Sp. p. 6983; Gaz. vol. 177; p. 1226.
Trucks, Safety apparatus for miners'. V. Stasch. No. 1,019,281; Mar. 5; Sp. p. 618; Gaz. vol. 176; p. 96.
Truing-up gage. G. W. Freeman. No. 1,047,511; Dec. 17; Gaz. vol. 185; p. 666.
Trumpet. J. M. Landon. No. 1,029,502; June 11; Sp. p. 3107; Gaz. vol. 179; p. 521.
Trunk. S. R. Stearns. No. 1,013,231; Jan. 2; Sp. p. 314; Gaz. vol. 174; p. 50.
Trunk. H. Romünder. No. 1,015,511; Jan. 23; Sp. p. 5341; Gaz. vol. 174; p. 916.
Trunk. C. T. and E. E. Wilt. No. 1,015,604; Jan. 23; Sp. p. 5548; Gaz. vol. 174; p. 950.
Trunk. M. Vitoszki. No. 1,017,351; Feb. 13; Sp. p. 2480; Gaz. vol. 175; p. 421.
Trunk. S. A. Hessler. No. 1,019,325; Mar. 5; Sp. p. 720; Gaz. vol. 176; p. 112.
Trunk. R. Simonsen. No. 1,022,158; Apr. 2; Sp. p. 861; Gaz. vol. 177; p. 137.
Trunk. D. Wolfson. No. 1,031,762; July 9; Gaz. vol. 180; p. 360.
Trunk. F. W. Meyer. No. 1,035,220; Aug. 13; Gaz. vol. 181; p. 304.

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Trunk. W. C. T. Hansen. No. 1,038,880; Sept. 17; Gaz. vol. 182; p. 646.
Trunk. H. Davis. No. 1,048,810; Dec. 31; Gaz. vol. 185; p. 1179.
Trunk, Automobile-. J. M. Pritchett. No. 1,035,048; Aug. 6; Gaz. vol. 181; p. 215.
Trunk, Collapsible. C. L. Smith and W. O. Lee. No. 1,043,474; Nov. 5; Gaz. vol. 184; p. 154.
Trunk, Dresser-. L. Russell. No. 1,014,853; Jan. 16; Sp. p. 3942; Gaz. vol. 174; p. 667.
Trunk-fastener. W. D. Barnes. No. 1,024,054; Apr. 23; Sp. p. 4896; Gaz. vol. 177; p. 867.
Trunk-fastener. H. T. V. Perry. No. 1,025,923; May 7; Sp. p. 1821; Gaz. vol. 178; p. 281.
Trunk-fastener. E. Bucknall, Jr., and P. Nevill. No. 1,029,845; June 18; Sp. p. 3886; Gaz. vol. 179; p. 677.
Trunk-fastener. S. Meledonian. No. 1,033,917; July 30; Gaz. vol. 180; p. 1196.
Trunk-fastener. A. L. Sessions. No. 1,036,733; Aug. 27; Gaz. vol. 181; p. 894.
Trunk-lock. J. Brewer. No. 1,037,118; Aug. 27; Gaz. vol. 181; p. 1023.
Trunk-lock. F. Soley. No. 1,038,981; Sept. 17; Gaz. vol. 182; p. 680.
Trunk-lock. A. Antifaev. No. 1,043,188; Nov. 5; Gaz. vol. 184; p. 51.
Trunk packing-board and clothes-rack, Combination. H. G. Bates. No. 1,033,045; July 16; Gaz. vol. 180; p. 838.
Trunk-packing device. F. L. Cloman. No. 1,047,500; Dec. 17; Gaz. vol. 185; p. 663.
Trunk-riveting machine. A. R. Havener. No. 1,031,260; July 2; Gaz. vol. 180; p. 145.
Trunk-strap. M. L. Mix. No. 1,031,813; July 9; Gaz. vol. 180; p. 377.
Trunk suspension-fixture device, Wardrobe-. G. Dorn. No. 1,015,547; Jan. 23; Sp. p. 5417; Gaz. vol. 174; p. 928.
Trunk-tray. P. H. Schmelzer. No. 1,017,812; Feb. 20; Sp. p. 3492; Gaz. vol. 175; p. 614.
Trunk-tray. W. A. Simmons. No. 1,038,009; Sept. 10; Gaz. vol. 182; p. 313.
Trunk, Wardrobe-. E. W. Hawley. No. 1,017,755; Feb. 20; Sp. p. 3321; Gaz. vol. 175; p. 594.
Trunk, Wardrobe-. H. W. Rountree. No. 1,021,070; Mar. 26; Sp. p. 4381; Gaz. vol. 176; p. 813.
Trunk, Wardrobe-. G. H. Wheary. (Reissue.) No. 13,404; Apr. 9; Sp. p. 2923; Gaz. vol. 177; p. 498.
Trunk, Wardrobe-. H. N. Drucker. No. 1,024,125; Apr. 23; Sp. p. 5073; Gaz. vol. 177; p. 893.
Trunks, Clothes compressing and holding attachment for. J. V. Meyering. No. 1,045,309; Nov. 26; Gaz. vol. 184; p. 877.
Trunks, Garment-confining attachment for. M. A. McKim. No. 1,041,836; Oct. 22; Gaz. vol. 183; p. 833.
Trunks, Garment-supporter for wardrobe-. E. W. Hawley. No. 1,014,392; Jan. 9; Sp. p. 2904; Gaz. vol. 174; p. 481.
Truss. C. A. Love and J. P. Turner. No. 1,019,501; Mar. 5; Sp. p. 1146; Gaz. vol. 176; p. 168.
Truss. D. McKay. No. 1,026,758; May 21; Sp. p. 3670; Gaz. vol. 178; p. 637.
Truss. T. M. Merck. No. 1,031,724; July 9; Gaz. vol. 180; p. 346.
Truss. J. Barnes. No. 1,033,147; July 23; Gaz. vol. 180; p. 912.
Truss. E. Hartwig. No. 1,034,793; Aug. 6; Gaz. vol. 181; p. 132.
Truss. R. Cartwright. No. 1,035,417; Aug. 13; Gaz. vol. 181; p. 375.
Truss. M. H. Turner. No. 1,035,500; Aug. 13; Gaz. vol. 181; p. 403.
Truss. E. Phelan. No. 1,047,116; Dec. 10; Gaz. vol. 185; p. 494.
Truss for ruptures. E. Volkmer. No. 1,016,531; Feb. 6; Sp. p. 693; Gaz. vol. 175; p. 103.
Truss for umbilical hernia. H. Loewy. No. 1,048,553; Dec. 31; Gaz. vol. 185; p. 1088.
Truss-pad, Hernial. P. C. McEwen and F. W. Young. No. 1,023,435; Apr. 16; Sp. p. 3585; Gaz. vol. 177; p. 637.
Truss, Rupture-. J. A. Johnston. No. 1,018,113; Feb. 20; Sp. p. 4185; Gaz. vol. 175; p. 720.
Truss, Rupture-. A. Loewy. No. 1,045,574; Nov. 26; Gaz. vol. 184; p. 972.
Truss, Self-conforming anatomical. F. J. Follansbee. No. 1,044,159; Nov. 12; Gaz. vol. 184; p. 419.
Tub: *See* Bath-tub; Dyeing-tub; Mining-tub; Washtub.
Tube: *See* Coiler-tube; Collapsible tube; Cop-tube; Ignition-tube; Lava vapor-tube; Mailing-tube; Metal tube; Metallic tube; Seeding-machine grain-tube; Tire-casing inner tube; Torpedo-launching tube; Uterine tube; Vacuum-tube; X-ray tube.
Tube. T. F. Sanborn. No. 1,027,772; May 28; Sp. p. 5846; Gaz. vol. 178; p. 1018.
Tube. J. W. Hawkins. No. 1,031,790; July 9; Gaz. vol. 180; p. 369.
Tube-bending machine. F. Brantigam. No. 1,047,612; Dec. 17; Gaz. vol. 185; p. 703.
Tube-bending machine, Metal-. A. H. Plante. No. 1,016,771; Feb. 6; Sp. p. 1214; Gaz. vol. 175; p. 186.
Tube caps, Machine for making collapsible-. R. L. Wilcox. No. 1,033,043; July 16; Gaz. vol. 180; p. 837.
Tube carrier, Pneumatic-. A. Herz. No. 1,039,394; Sept. 24; Gaz. vol. 182; p. 838.
Tube-clamp. O. Krauskopf. No. 1,027,423; May 28; Sp. p. 5156; Gaz. vol. 178; p. 904.
Tube-cleaner. S. D. Sargeant. No. 1,022,974; Apr. 9; Sp. p. 2612; Gaz. vol. 177; p. 444.
Tube-cleaner. W. S. Elliott. No. 1,036,982; Aug. 27; Gaz. vol. 181; p. 977.
Tube-cleaner. W. S. Elliott. No. 1,036,983; Aug. 27; Gaz. vol. 181; p. 978.
Tube-cleaner. W. Schilow. No. 1,044,920; Nov. 19; Gaz. vol. 184; p. 714.
Tube-cleaner. J. Harsén. No. 1,047,939; Dec. 24; Gaz. vol. 185; p. 844.
Tube-cleaning tool. W. S. Elliott. No. 1,032,193; July 9; Gaz. vol. 180; p. 505.
Tube-compressing device. C. L. McClellan. No. 1,033,717; July 23; Gaz. vol. 180; p. 1100.
Tube-corrugating apparatus. A. Mark and W. E. Sandford. No. 1,045,092; Nov. 19; Gaz. vol. 184; p. 774.
Tube-corrugating apparatus. A. Mark and W. E. Sandford. No. 1,045,093; Nov. 19; Gaz. vol. 184; p. 774.
Tube cover, Collapsible-. J. L. Stichter. No. 1,042,050; Oct. 22; Gaz. vol. 183; p. 905.
Tube-cutting machine. G. W. Beadle. No. 1,046,723; Dec. 10; Gaz. vol. 185; p. 363.
Tube-discharging apparatus, Collapsible-. R. L. Smith. No. 1,020,321; Mar. 12; Sp. p. 2781; Gaz. vol. 176; p. 471.
Tube-drawing machine. R. Koenig. No. 1,019,805; Mar. 12; Sp. p. 1720; Gaz. vol. 176; p. 301.
Tube-filling apparatus. A. J. Kier. No. 1,026,956; May 21; Sp. p. 4146; Gaz. vol. 178; p. 707.
Tube, Forming a spirally-wound. C. T. Pratt. No. 1,046,851; Dec. 10; Gaz. vol. 185; p. 406.
Tube-forming machine. J. D. Beebe. No. 1,034,954; Aug. 6; Gaz. vol. 181; p. 185.
Tube-forming machine. J. R. Harbeck and B. K. Ford. No. 1,037,246; Sept. 3; Gaz. vol. 182; p. 24.
Tube-forming machines, Bar-retaining means for. P. M. Joyce. No. 1,018,621; Feb. 27; Sp. p. 5333; Gaz. vol. 175; p. 925.
Tube-forming mechanism. R. Koenig. No. 1,019,968; Mar. 12; Sp. p. 2050; Gaz. vol. 176; p. 354.
Tube heater, Ignition-. J. E. Wise. No. 1,028,412; June 4; Sp. p. 768; Gaz. vol. 179; p. 116.
Tube-machine cutting-off mechanism. E. N. Pagelsen. No. 1,033,454; July 23; Gaz. vol. 180; p. 1014.
Tube-making apparatus. J. Mayor. No. 1,036,874; Aug. 27; Gaz. vol. 181; p. 942.
Tube-making machine. E. J. Kern. No. 1,018,114; Feb. 20; Sp. p. 4186; Gaz. vol. 175; p. 720.
Tube-making machine. E. J. Schoettle. No. 1,031,965; July 9; Gaz. vol. 180; p. 429.
Tube-making machine, Metal-. G. W. Beadle. No. 1,018,291; Feb. 20; Sp. p. 4553; Gaz. vol. 175; p. 781.
Tube-making machine, Metal-. H. Higgin. No. 1,019,043; Mar. 5; Sp. p. 67; Gaz. vol. 176; p. 14.
Tube-mill, Continuous. M. B. Lloyd. No. 1,027,865; May 28; Sp. p. 6106; Gaz. vol. 178; p. 1051.
Tube-mill grinder. W. Main. No. 1,043,855; Nov. 12; Gaz. vol. 184; p. 315.
Tube-mills and like grinding apparatus, Feeding means for. J. E. Thomas. No. 1,045,342; Nov. 26; Gaz. vol. 184; p. 889.
Tube-mills, Feed and discharge end-liner for. H. C. Holthoff. No. 1,018,320; Feb. 20; Sp. p. 4607; Gaz. vol. 175; p. 791.
Tube protector, Inflating-. C. E. Falor. No. 1,036,085; Aug. 20; Gaz. vol. 181; p. 638.
Tube-rolling apparatus. R. E. Brock and W. M. Selkirk. No. 1,046,436; Dec. 10; Gaz. vol. 185; p. 259.
Tube-scraper. H. J. Thorsen. No. 1,042,841; Oct. 29; Gaz. vol. 183; p. 1203.
Tube-testing apparatus. A. M. Saunders and F. N. Speller. No. 1,036,912; Aug. 27; Gaz. vol. 181; p. 952.
Tube-thread protector. J. W. West. No. 1,038,249; Sept. 10; Gaz. vol. 182; p. 392.
Tube-top. S. W. McKillop. No. 1,039,985; Oct. 1; Gaz. vol. 183; p. 104.
Tube-winding machine. W. T. Wilson and A. B. Starr. No. 1,042,861; Oct. 29; Gaz. vol. 183; p. 1211.
Tubes and for cutting off tubes, Apparatus for cutting threads on. V. Müller. No. 1,017,898; Feb. 20; Sp. p. 3717; Gaz. vol. 175; p. 647.
Tubes and the like, Closure for. R. Schneider. No. 1,048,897; Dec. 31; Gaz. vol. 185; p. 1208.
Tubes, Apparatus for manufacturing metal. W. J. and J. W. Moon. No. 1,026,275; May 14; Sp. p. 2606; Gaz. vol. 178; p. 437.
Tubes, Apparatus for mounting and dismounting flexible. W. A. Lorenz. No. 1,037,159; Aug. 27; Gaz. vol. 181; p. 1036.
Tubes, Apparatus for the manufacture of. J. S. Lewis and W. H. Powell. No. 1,018,670; Feb. 27; Sp. p. 5435; Gaz. vol. 175; p. 942.

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Tubes, Automatic machine for cutting off. J. T. McGrath. No. 1,020,433; Mar. 19; Sp. p. 3021; Gaz. vol. 176; p. 547.
Tubes by means of electrical resistance welding, Closing the seams of. E. Presser. No. 1,031,026; July 2; Gaz. vol. 180; p. 62.
Tubes during the operation of drawing them, Holding. H. Higgin. No. 1,025,568; May 7; Sp. p. 1039; Gaz. vol. 178; p. 161.
Tubes, Machine for applying clips to collapsible. L. Abrahams. No. 1,026,234; May 14; Sp. p. 2528; Gaz. vol. 178; p. 423.
Tubes, Machine for forming and electrically welding. E. J. Guay. No. 1,022,025; Apr. 2; Sp. p. 583; Gaz. vol. 177; p. 92.
Tubes, Machine for forming multiple-unit. C. A. Williams. No. 1,028,312; June 4; Sp. p. 539; Gaz. vol. 179; p. 79.
Tubes, Making seamless. J. W. Offutt. No. 1,040,569; Oct. 8; Gaz. vol. 183; p. 334.
Tubes, Manufacture of. O. Briede. (Reissue.) No. 13,473; Oct. 8; Gaz. vol. 183; p. 478.
Tubes, Manufacture of composite. W. Love. No. 1,048,326; Dec. 24; Gaz. vol. 185; p. 972.
Tubes, Method of and apparatus for forming flexible. N. S. Harter. No. 1,042,552; Oct. 29; Gaz. vol. 183; p. 1102.
Tubes, rods, &c., Apparatus for heating. C. Vallone and F. R. Rogers. No. 1,033,497; July 23; Gaz. vol. 180; p. 1028.
Tubes, tiles, and the like, Device for lifting. F. L. Watson. No. 1,026,536; May 14; Sp. p. 3176; Gaz. vol. 178; p. 525.
Tubing. W. Dicks. No. 1,045,957; Dec. 3; Gaz. vol. 185; p. 55.
Tubing-closure. F. B. Upton. No. 1,047,341; Dec. 17; Gaz. vol. 185; p. 609.
Tubing, Flexible metallic. W. Berryman and C. Camus. No. 1,021,567; Mar. 26; Sp. p. 5465; Gaz. vol. 176; p. 982.
Tubing for boring. E. Frankignoul. No. 1,048,304; Dec. 24; Gaz. vol. 185; p. 964.
Tubing for boring. E. Frankignoul. No. 1,048,470; Dec. 24; Gaz. vol. 185; p. 1022.
Tubing-machine. H. B. Cooley. No. 1,034,879; Aug. 6; Gaz. vol. 181; p. 161.
Tubing, Machine for making lock-joined angular metal. J. Stander. No. 1,023,049; Apr. 9; Sp. p. 2753; Gaz. vol. 177; p. 470.
Tubing, Manufacture of. P. Patterson. No. 1,042,593; Oct. 29; Gaz. vol. 183; p. 1117.
Tubing or casing spear. R. C. Glines and H. A. Stier. No. 1,041,268; Oct. 15; Gaz. vol. 183; p. 606.
Tubular bodies, such as pipes, hollow masts, &c., Manufacture of. H. Siegwart. No. 1,027,571; May 28; Sp. p. 5453; Gaz. vol. 178; p. 953.
Tubular carrier. F. O. Hoagland. No. 1,025,525; May 7; Sp. p. 944; Gaz. vol. 178; p. 146.
Tubular fabric. C. S. Smith. No. 1,016,527; Feb. 6; Sp. p. 683; Gaz. vol. 175; p. 102.
Tubular handle. J. A. Simons. No. 1,021,075; Mar. 26; Sp. p. 4387; Gaz. vol. 176; p. 814.
Tubular mill for fine grinding, Vertical. C. Morel. No. 1,024,414; Apr. 23; Sp. p. 5682; Gaz. vol. 177; p. 990.
Tubular receptacles, Machine for making. J. Nazel. No. 1,037,040; Aug. 27; Gaz. vol. 181; p. 997.
Tubular structure. W. D. Gray. No. 1,015,312; Jan. 23; Sp. p. 4903; Gaz. vol. 174; p. 849.
Tubular structure and making the same. L. Atwood. No. 1,015,120; Jan. 16; Sp. p. 4503; Gaz. vol. 174; p. 758.
Tubular structures, Machine for inserting pucker-cords in. H. Jonson. No. 1,023,426; Apr. 16; Sp. p. 3566; Gaz. vol. 177; p. 635.
Tuberculo-toxoidin. T. Ishigami. No. 1,020,761; Mar. 19; Sp. p. 3742; Gaz. vol. 176; p. 656.
Tucker for collecting-cylinders. H. C. Schroeder. No. 1,048,745; Dec. 31; Gaz. vol. 185; p. 1155.
Tuft. F. W. Oehrle. No. 1,038,943; Sept. 17; Gaz. vol. 182; p. 668.
Tuft-making machine. D. L. Chandler. No. 1,028,436; June 4; Sp. p. 817; Gaz. vol. 179; p. 124.
Tufting-machine. W. E. Buser. No. 1,034,766; Aug. 6; Gaz. vol. 181; p. 122.
Tufting-machine. C. E. Martin. No. 1,037,786; Sept. 3; Gaz. vol. 182; p. 203.
Tug and shaft attachment. S. Blodgett. No. 1,022,529; Apr. 9; Sp. p. 1637; Gaz. vol. 177; p. 291.
Tug-fastener. A. E. Quanstrom. No. 1,029,888; June 18; Sp. p. 3981; Gaz. vol. 179; p. 693.
Tug fastener, Harness-. J. R. Cracroft. No. 1,038,091; Sept. 10; Gaz. vol. 182; p. 339.
Tug-holder, Safety. R. J. Rogers. No. 1,049,270; Dec. 31; Gaz. vol. 185; p. 1335.
Tug, Open harness-. J. J. Harward. No. 1,017,666; Feb. 20; Sp. p. 3126; Gaz. vol. 175; p. 565.
Tug, Thill-. J. W. Marsalis. No. 1,017,303; Feb. 13; Sp. p. 2383; Gaz. vol. 175; p. 405.
Tumbler-finishing machine. J. J. Denning. No. 1,046,996; Dec. 10; Gaz. vol. 185; p. 453.
Tumbler lock, Duplex-cylinder pin-. J. H. Shaw and F. I. Kimball No. 1,018,683; Feb. 27; Sp. p. 5460; Gaz. vol. 175; p. 947.
Tumbler lock, Duplex pin-. F. I. Kimball and C. H. Daum. No. 1,044,186; Nov. 12; Gaz. vol. 184; p. 429.
Tumbler lock, Pin-. P. F. Augenbraun. No. 1,020,874; Mar. 19; Sp. p. 3983; Gaz. vol. 176; p. 694.
Tumbling and polishing machine. H. B. Richardson. No. 1,038,791; Sept. 17; Gaz. vol. 182; p. 615.
Tungsten, Increasing the ductility of metallic. W. von Bolton. No. 1,017,280; Feb. 13; Sp. p. 2334; Gaz. vol. 175; p. 397.
Tungsten purification. W. D. Coolidge. No. 1,026,428; May 14; Sp. p. 2953; Gaz. vol. 178; p. 489.
Tuning device. G. E. Brooks. No. 1,041,422; Oct. 15; Gaz. vol. 183; p. 656.
Tunnel. K. E. Stuart. No. 1,040,811; Oct. 8; Gaz. vol. 183; p. 418.
Tunnel construction. J. C. Meem. No. 1,018,578; Feb. 27; Sp. p. 5256; Gaz. vol. 175; p. 912.
Tunnel-furnace. A. H. Cowles. No. 1,040,978; Oct. 8; Gaz. vol. 183; p. 474.
Tunnel-kiln. E. R. Sutcliffe. No. 1,042,725; Oct. 29; Gaz. vol. 183; p. 1164.
Tunnel or conduit lining. J. F. O'Rourke. No. 1,043,348; Nov. 5; Gaz. vol. 184; p. 108.
Tunnel-work form. E. G. Williams and E. H. Brown. No. 1,017,029; Feb. 13; Sp. p. 1771; Gaz. vol. 175; p. 309.
Tunnels, Boring. N. Ebbley. No. 1,032,049; July 9; Gaz. vol. 180; p. 475.
Tunneling and excavating, Subaqueous. R. L. Dunn and L. M. Hall. No. 1,017,622; Feb. 13; Sp. p. 3028; Gaz. vol. 175; p. 512.
Tunneling apparatus, Rock-. H. F. Sutton. No. 1,025,029; Apr. 30; Sp. p. 7052; Gaz. vol. 177; p. 1239.
Tunneling-machine. A. F. Walther. No. 1,026,335; May 14; Sp. p. 2750; Gaz. vol. 178; p. 459.
Tunneling-machine. R. T. Stone. No. 1,026,412; May 14; Sp. p. 2922; Gaz. vol. 178; p. 484.
Tunneling-machine. L. H. Rogers. No. 1,039,809; Oct. 1; Gaz. vol. 183; p. 47.
Turbine. N. B. Wales and G. B. Collier. No. 1,014,350; Jan. 9; Sp. p. 2817; Gaz. vol. 174; p. 466.
Turbine. A. Kienast. No. 1,022,683; Apr. 9; Sp. p. 1976; Gaz. vol. 177; p. 343.
Turbine. E. Anderson. No. 1,024,111; Apr. 23; Sp. p. 5026; Gaz. vol. 177; p. 888.
Turbine. A. Kienast. No. 1,025,141; May 7; Sp. p. 65; Gaz. vol. 178; p. 12.
Turbine. J. Blaeker. No. 1,025,241; May 7; Sp. p. 290; Gaz. vol. 178; p. 48.
Turbine. A. Bonom. No. 1,027,309; May 21; Sp. p. 4909; Gaz. vol. 178; p. 826.
Turbine. J. H. Felthousen. No. 1,029,433; June 11; Sp. p. 2976; Gaz. vol. 179; p. 498.
Turbine. W. Robinson. No. 1,030,328; June 25; Sp. p. 4949; Gaz. vol. 179; p. 882.
Turbine. W. Robinson. No. 1,030,329; June 25; Sp. p. 4952; Gaz. vol. 179; p. 883.
Turbine. H. V. Smith. No. 1,031,093; July 2; Gaz. vol. 180; p. 87.
Turbine. J. H. Felthousen. No. 1,032,887; July 16; Gaz. vol. 180; p. 786.
Turbine. W. A. Scott. No. 1,033,738; July 23; Gaz. vol. 180; p. 1107.
Turbine. V. Gelpke. No. 1,035,116; Aug. 6; Gaz. vol. 181; p. 237.
Turbine. O. Banner. No. 1,035,142; Aug. 13; Gaz. vol. 181; p. 276.
Turbine. W. J. A. London. No. 1,036,866; Aug. 27; Gaz. vol. 181; p. 939.
Turbine. D. S. Cole. No. 1,037,440; Sept. 3; Gaz. vol. 182; p. 89.
Turbine. M. H. Churchill-Shann. No. 1,038,295; Sept. 10; Gaz. vol. 182; p. 408.
Turbine. W. Anderson. No. 1,041,562; Oct. 15; Gaz. vol. 183; p. 702.
Turbine-blade. G. Westinghouse. No. 1,014,683; Jan. 16; Sp. p. 3561; Gaz. vol. 174; p. 609.
Turbine-blade. W. Grun. No. 1,027,201; May 21; Sp. p. 4695; Gaz. vol. 178; p. 789.
Turbine-blade-shaping machine. C. A. Parsons and H. L. Short. No. 1,031,463; July 2; Gaz. vol. 180; p. 214.
Turbine-blades, Multicellular. A. Kienast. No. 1,045,154; Nov. 26; Gaz. vol. 184; p. 823.
Turbine-blading. J. S. Green. No. 1,015,313; Jan. 23; Sp. p. 4905; Gaz. vol. 174; p. 849.
Turbine-blading. C. A. Parsons, J. W. Wilson, and J. Ford. No. 1,021,472; Mar. 26; Sp. p. 5270; Gaz. vol. 176; p. 950.
Turbine-blading. H. Guyer. No. 1,041,269; Oct. 15; Gaz. vol. 183; p. 606.
Turbine-bucket binder. W. F. Rice. No. 1,017,467; Feb. 13; Sp. p. 2746; Gaz. vol. 175; p. 462.
Turbine-buckets, Machine for making. C. W. Dake. No. 1,035,545; Aug. 13; Gaz. vol. 181; p. 418.
Turbine-casing. O. F. Bruman. No. 1,036,182; Aug. 20; Gaz. vol. 181; p. 673.
Turbine, Combined ahead and astern. H. W. Ridsdale and S. S. Cook. No. 1,022,215; Apr. 2; Sp. p. 980; Gaz. vol. 177; p. 157.
Turbine compressor or pump for elastic fluids. F. Lawaczeck. No. 1,047,663; Dec. 17; Gaz. vol. 185; p. 721.

Alphabetical list of inventions—Continued.

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Turbine - controller mechanism. J. Wilkinson. No. 1,021,226; Mar. 26; Sp. p. 4720; Gaz. vol. 176; p. 863.
Turbine-diaphragm. O. Lasche. No. 1,017,566; Feb. 13; Sp. p. 2925; Gaz. vol. 175; p. 494.
Turbine-driven boiler-feed pumps, Control of steam-. C. R. Lang. No. 1,041,492; Oct. 15; Gaz. vol. 183; p. 680.
Turbine, Duplex rotary steam-. S. Sanne. No. 1,032,300; July 9; Gaz. vol. 180; p. 542.
Turbine, Elastic-fluid. F. Samuelson. No. 1,013,317; Jan. 2; Sp. p. 512; Gaz. vol. 174; p. 81.
Turbine, Elastic-fluid. C. R. Waller. No. 1,016,532; Feb. 6; Sp. p. 695; Gaz. vol. 175; p. 103.
Turbine, Elastic-fluid. C. R. Waller. No. 1,016,660; Feb. 6; Sp. p. 981; Gaz. vol. 175; p. 148.
Turbine, Elastic-fluid. C. O. Johnson. No. 1,018,667; Feb. 27; Sp. p. 5428; Gaz. vol. 175; p. 941.
Turbine, Elastic-fluid. S. J. Pigott. No. 1,021,260; Mar. 26; Sp. p. 4789; Gaz. vol. 176; p. 874.
Turbine, Elastic-fluid. J. Wilkinson. No. 1,021,754; Mar. 26; Sp. p. 5817; Gaz. vol. 176; p. 1043.
Turbine, Elastic-fluid. G. D. Atwood. No. 1,024,920; Apr. 30; Sp. p. 6845; Gaz. vol. 177; p. 1203.
Turbine, Elastic-fluid. R. O. Muller. No. 1,025,921; May 7; Sp. p. 1815; Gaz. vol. 178; p. 280.
Turbine, Elastic-fluid. C. G. Curtis. No. 1,027,697; May 28; Sp. p. 5703; Gaz. vol. 178; p. 994.
Turbine, Elastic-fluid. W. W. Dake. No. 1,035,543; Aug. 13; Gaz. vol. 181; p. 417.
Turbine, Elastic-fluid. W. W. Dake. No. 1,035,544; Aug. 13; Gaz. vol. 181; p. 418.
Turbine, Elastic-fluid. W. W. Dake. No. 1,035,820; Aug. 13; Gaz. vol. 181; p. 509.
Turbine, Elastic-fluid. T. R. Sanders. No. 1,038,972; Sept. 17; Gaz. vol. 182; p. 677.
Turbine, Elastic-fluid. L. C. Loewenstein and L. H. Dyer. No. 1,041,121; Oct. 15; Gaz. vol. 183; p. 555.
Turbine, Elastic-fluid. L. C. Loewenstein and L. H. Dyer. No. 1,041,714; Oct. 15; Gaz. vol. 183; p. 753.
Turbine, Elastic-fluid. F. Samuelson. No. 1,042,147; Oct. 22; Gaz. vol. 183; p. 936.
Turbine, Elastic-fluid. W. E. Snow. No. 1,042,616; Oct. 29; Gaz. vol. 183; p. 1126.
Turbine, Elastic-fluid. O. D. H. Bentley. No. 1,042,871; Oct. 29; Gaz. vol. 183; p. 1215.
Turbine, Elastic-fluid. G. B. Collier. No. 1,047,918; Dec. 24; Gaz. vol. 185; p. 838.
Turbine, Elastic-fluid. J. F. Metten. No. 1,048,564; Dec. 31; Gaz. vol. 185; p. 1091.
Turbine, Elastic-fluid. F. J. Wilke. No. 1,049,185; Dec. 31; Gaz. vol. 185; p. 1305.
Turbine-engine. S. Z. de Ferranti. No. 1,045,961; Dec. 3; Gaz. vol. 185; p. 57.
Turbine-engine. W. A. Scott. No. 1,047,898; Dec. 17; Gaz. vol. 185; p. 801.
Turbine, Fluid-pressure. A. W. Clarke. No. 1,029,489; June 11; Sp. p. 3080; Gaz. vol. 179; p. 516.
Turbine, Gas-. A. T. Kasley. No. 1,031,718; July 9; Gaz. vol. 180; p. 344.
Turbine, Gas-. H. Holzwarth. No. 1,043,767; Nov. 5; Gaz. vol. 184; p. 253.
Turbine, Gas-. H. Holzwarth. No. 1,043,768; Nov. 5; Gaz. vol. 184; p. 253.
Turbine, &c., Gas-. H. Holzwarth. No. 1,033,015; July 16; Gaz. vol. 180; p. 828.
Turbine-governing means, Elastic-fluid-. R. H. Rice. No. 1,021,212; Mar. 26; Sp. p. 4675; Gaz. vol. 176; p. 857.
Turbine-governing mechanism. L. Cubelic. No. 1,020,686; Mar. 19; Sp. p. 3575; Gaz. vol. 176; p. 629.
Turbine-governing mechanism. O. Junggren and E. D. Dickinson. No. 1,023,319; Apr. 16; Sp. p. 3367; Gaz. vol. 177; p. 601.
Turbine-governing mechanism. W. Pape. No. 1,029,312; June 11; Sp. p. 2693; Gaz. vol. 179; p. 457.
Turbine-governing mechanism. R. H. Rice. No. 1,041,513; Oct. 15; Gaz. vol. 183; p. 686.
Turbine - governing mechanism, Mixed - pressure-. B. Krämer. No. 1,013,184; Jan. 2; Sp. p. 186; Gaz. vol. 174; p. 33.
Turbine-governing mechanism, Mixed-pressure-. O. Junggren and A. T. Gray. No. 1,017,555; Feb. 13; Sp. p. 2907; Gaz. vol. 175; p. 491.
Turbine-governor. H. F. Liedtke. No. 1,035,713; Aug. 13; Gaz. vol. 181; p. 473.
Turbine, Hydraulic. A. Pfau. No. 1,023,585; Apr. 16; Sp. p. 3895; Gaz. vol. 177; p. 685.
Turbine, Hydraulic. F. Oesterlen. No. 1,047,134; Dec. 10; Gaz. vol. 185; p. 502.
Turbine, Hydrocarbon-gas. I. N. Reed. No. 1,021,262; Mar. 26; Sp. p. 4795; Gaz. vol. 176; p. 875.
Turbine installation, Steam-. E. Brown and J. Baasch. No. 1,047,740; Dec. 17; Gaz. vol. 185; p. 748.
Turbine, Internal-combustion. E. F. Hopkins. No. 1,047,227; Dec. 17; Gaz. vol. 185; p. 565.
Turbine, Marine steam-. C. G. Curtis. No. 1,027,698; May 28; Sp. p. 5705; Gaz. vol. 178; p. 994.
Turbine-operating method and apparatus. C. S. Bradley. No. 1,015,777; Jan. 30; Sp. p. 5914; Gaz. vol. 174; p. 1035.
Turbine packing-gland, Steam-. W. J. A. London. No. 1,037,647; Sept. 3; Gaz. vol. 182; p. 158.
Turbine, Radial. B. Ljungström. No. 1,014,659; Jan. 16; Sp. p. 3501; Gaz. vol. 174; p. 600.
Turbine, Reëntrant. G. Westinghouse. No. 1,031,757; July 9; Gaz. vol. 180; p. 358.
Turbine-regulating device, Reaction-. H. A. Singrün. No. 1,038,977; Sept. 17; Gaz. vol. 182; p. 678.
Turbine, Reversible steam-. F. L. McCulloch. No. 1,016,080; Jan. 30; Sp. p. 6579; Gaz. vol. 174; p. 1142.
Turbine-rotor. R. O. Muller. No. 1,026,821; May 21; Sp. p. 3802; Gaz. vol. 178; p. 658.
Turbine-rotors, Longitudinal adjusting means for. F. Hodgkinson. No. 1,015,315; Jan. 23; Sp. p. 4910; Gaz. vol. 174; p. 850.
Turbine, Steam-. W. J. A. London. No. 1,021,541; Mar. 26; Sp. p. 5409; Gaz. vol. 176; p. 973.
Turbine, Steam-. J. Brown and J. E. Scott. No. 1,030,278; June 25; Sp. p. 4831; Gaz. vol. 179; p. 864.
Turbine, Steam-. T. Bodde. No. 1,033,868; July 30; Gaz. vol. 180; p. 1178.
Turbine, Steam-. R. H. Pyle. No. 1,036,708; Aug. 27; Gaz. vol. 181; p. 886.
Turbine, Steam-. C. W. Dake. No. 1,038,534; Sept. 17; Gaz. vol. 182; p. 525.
Turbine, Steam-. E. J. McCarty. No. 1,047,967; Dec. 24; Gaz. vol. 185; p. 852.
Turbine, Steam-. H. B. Walda. No. 1,048,012; Dec. 24; Gaz. vol. 185; p. 866.
Turbine steam-chamber. O. F. Bruman. No. 1,036,183; Aug. 20; Gaz. vol. 181; p. 673.
Turbine-wheel, Compound high-pressure. T. McAuley. No. 1,017,438; Feb. 13; Sp. p. 2670; Gaz. vol. 175; p. 452.
Turbines, Apparatus for regulating steam-. O. Banner. No. 1,015,415; Jan. 23; Sp. p. 5143; Gaz. vol. 174; p. 883.
Turbines, Automatic regulation of mixed-pressure. E. W. Mix. No. 1,021,257; Mar. 26; Sp. p. 4784; Gaz. vol. 176; p. 873.
Turbines, Bearing for. A. C. Pratt. No. 1,017,588; Feb. 13; Sp. p. 2966; Gaz. vol. 175; p. 501.
Turbines, Combined step and guide bearing for. R. H. Rice. No. 1,041,512; Oct. 15; Gaz. vol. 183; p. 686.
Turbines, Device for governing the speed of water-. A. Huguenin. No. 1,041,289; Oct. 15; Gaz. vol. 183; p. 614.
Turbines, Device to balance thrust in. A. Barbezat. No. 1,030,153; June 18; Sp. p. 4524; Gaz. vol. 179; p. 782.
Turbines, Gate-case with balanced gates for water-. A. Vonaesch. No. 1,017,716; Feb. 20; Sp. p. 3226; Gaz. vol. 175; p. 580.
Turbines, Governing mechanism for mixed-pressure. O. Junggren and E. D. Dickinson. No. 1,020,697; Mar. 19; Sp. p. 3608; Gaz. vol. 176; p. 634.
Turbines, Governing mechanism for mixed-pressure. W. Pape. No. 1,029,311; June 11; Sp. p. 2690; Gaz. vol. 179; p. 456.
Turbines, Manufacturing vane-rings for gas or steam. B. Ljungström. No. 1,042,358; Oct. 22; Gaz. vol. 183; p. 1005.
Turbines, Nozzle of axial-flow. H. Boltshauser. No. 1,024,391; Apr. 23; Sp. p. 5595; Gaz. vol. 177; p. 981.
Turbines, Packing for elastic-fluid. W. Kieser. No. 1,022,788; Apr. 9; Sp. p. 2224; Gaz. vol. 177; p. 381.
Turbines, Protective device for. W. Kieser. No. 1,020,703; Mar. 19; Sp. p. 3623; Gaz. vol. 176; p. 636.
Turbines, Stationary diaphragm for steam-. O. F. Bruman. No. 1,036,184; Aug. 20; Gaz. vol. 181; p. 674.
Turbines, Steam generator and regulator for. E. A. Wurtz. No. 1,014,797; Jan. 16; Sp. p. 3802; Gaz. vol. 174; p. 646.
Turbo-compressor. E. W. Köster. No. 1,032,147; July 9; Gaz. vol. 180; p. 488.
Turbo-compressors or blowers, Means for cooling. A. C. E. Rateau. No. 1,038,200; Sept. 10; Gaz. vol. 182; p. 374.
Turbo construction. E. Mattman. No. 1,030,595; June 25; Sp. p. 5645; Gaz. vol. 179; p. 978.
Turbo-displacement engine. L. H. Nash. No. 1,045,732; Nov. 26; Gaz. vol. 184; p. 1028.
Turbo-generator. R. H. Rice. No. 1,021,266; Mar. 26; Sp. p. 4801; Gaz. vol. 176; p. 876.
Turf-cutter. F. A. Young. No. 1,022,995; Apr. 9; Sp. p. 2645; Gaz. vol. 177; p. 451.
Turn-table. A. O. Slentz. No. 1,013,456; Jan. 2; Sp. p. 797; Gaz. vol. 174; p. 128.
Turn-table. T. C. Beach. No. 1,017,033; Feb. 13; Sp. p. 1781; Gaz. vol. 175; p. 310.
Turn-table. G. N. Crawford. No. 1,031,425; July 2; Gaz. vol. 180; p. 202.
Turn-table. A. C. Erickson and L. D. Fletcher. No. 1,040,911; Oct. 8; Gaz. vol. 183; p. 450.
Turn-table. D. S. Landstra. No. 1,047,661; Dec. 17; Gaz. vol. 185; p. 720.
Turn-table, Portable. B. K. Hall. No. 1,015,885; Jan. 30; Sp. p. 6151; Gaz. vol. 174; p. 1072.
Turnable parts, Adjusting device for. C. Tönjes. No. 1,015,854; Jan. 30; Sp. p. 6083; Gaz. vol. 174; p. 1060.
Turning mills, lathes, or like machines, Feed mechanism of. A. E. Bennett and H. Thompson. No. 1,039,484; Sept. 24; Gaz. vol. 182; p. 870.

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Turning taper surfaces, Lathe attachment for. E. L. Mills and J. W. Whitford. No. 1,031,726; July 9; Gaz. vol. 180; p. 347.
Turning-tool. J. Hartness. No. 1,020,493; Mar. 19; Sp. p. 3139; Gaz. vol. 176; p. 566.
Turning-tool. J. Hartness. No. 1,020,494; Mar. 19; Sp. p. 3145; Gaz. vol. 176; p. 566.
Turning-tool. W. S. Davenport. No. 1,032,382; July 16; Gaz. vol. 180; p. 615.
Turning tool, Metal-. J. Hartness. No. 1,020,495; Mar. 19; Sp. p. 3149; Gaz. vol. 176; p. 567.
Turnstile. E. C. Noe. No. 1,035,462; Aug. 13; Gaz. vol. 181; p. 390.
Turnstile mechanism. D. A. L. McDonald. No. 1,016,948; Feb. 13; Sp. p. 1596; Gaz. vol. 175; p. 281.
Turnstile registering device. J. C. Ewing. No. 1,030,068; June 18; Sp. p. 4368; Gaz. vol. 179; p. 753.
Turpentine and sugar, Apparatus for treating lignocellulose for recovering. G. H. Tomlinson. No. 1,032,444; July 16; Gaz. vol. 180; p. 635.
Turpentine and sugar, Treating lignocellulose for recovering. G. H. Tomlinson. No. 1,032,443; July 16; Gaz. vol. 180; p. 635.
Turpentine-apron. W. O. Daly. No. 1,040,900; Oct. 8; Gaz. vol. 183; p. 446.
Turpentine-apron. W. O. Daly and L. Lerio. No. 1,043,676; Nov. 5; Gaz. vol. 184; p. 224.
Turpentine-box. F. W. Dock. No. 1,040,527; Oct. 8; Gaz. vol. 183; p. 319.
Turpentine-cup. L. T. Baker No. 1,016,811; Feb. 6; Sp. p. 1290; Gaz. vol. 175; p. 198.
Turpentine-cup. W. J. L'Engle. No. 1,017,297; Feb. 13; Sp. p. 2364; Gaz. vol. 175; p. 403.
Turpentine-cup. H. Harsey. No. 1,017,541; Feb. 13; Sp. p. 2885; Gaz. vol. 175; p. 487.
Turpentine-cup. W. J. L'Engle. No. 1,017,679; Feb. 20; Sp. p. 3151; Gaz. vol. 175; p. 568.
Turpentine-cup. D. L. O'Neal. No. 1,019,183; Mar. 5; Sp. p. 392; Gaz. vol. 176; p. 62.
Turpentine-cup. W. O. Daly and L. Lerio. No. 1,045,682; Nov. 26; Gaz. vol. 184; p. 1011.
Turpentine-cup bracket. J. S. Shands. No. 1,015,213; Jan. 16; Sp. p. 4669; Gaz. vol. 174; p. 788.
Turpentine, &c., from wood, Apparatus for extracting. M. McKenzie. (Reissue.) No. 13,456; Aug. 6; Gaz. vol. 181; p. 245.
Turpentine-gatherer. L. T. Baker. No. 1,013,107; Jan. 2; Sp. p. 21; Gaz. vol. 174; p. 6.
Turpentine-gatherer. J. H. Womack. No. 1,027,958; May 28; Sp. p. 6291; Gaz. vol. 178; p. 1081.
Turpentine-gatherer. S. E. and L. C. O'Quinn. No. 1,035,382; Aug. 13; Gaz. vol. 181; p. 363.
Turpentine-gathering apparatus. W. E. Kenner. No. 1,025,985; May 14; Sp. p. 1947; Gaz. vol. 178; p. 336.
Turpentine puller-stock. M. R. Strickland. No. 1,044,286; Nov. 12; Gaz. vol. 184; p. 464.
Turpentine-receptacle. R. Dunwody. No. 1,045,005; Nov. 19; Gaz. vol. 184; p. 743.
Turpentine-stills, Signaling apparatus for. R. Dunwoody. No. 1,018,038; Feb. 20; Sp. p. 4009; Gaz. vol. 175; p. 694.
Turret. P. Vogel. No. 1,038,242; Sept. 10; Gaz. vol. 182; p. 389.
Turret indexing and locking mechanism. B. M. W. Hanson and E. Henrikson. No. 1,042,001; Oct. 22; Gaz. vol. 183; p. 888.
Turret-machine for reaming and tapping. J. R. Saylor. No. 1,048,352; Dec. 24; Gaz. vol. 185; p. 981.
Turret-operating mechanism. J. H. Jann. No. 1,022,086; Apr. 2; Sp. p. 708; Gaz. vol. 177; p. 113.
Twine. J. Dymock. No. 1,038,490; Sept. 10; Gaz. vol. 182; p. 476.
Twine-cutter. J. J. Anderson. No. 1,020,788; Mar. 19; Sp. p. 3798; Gaz. vol. 176; p. 665.
Twine-cutter. W. Moore. No. 1,026,631; May 14; Sp. p. 3373; Gaz. vol. 178; p. 555.
Twine-cutter. J. R. Caldwell. No. 1,031,772; July 9; Gaz. vol. 180; p. 363.
Twine cutter and holder. L. M. Myers. No. 1,020,111; Mar. 12; Sp. p. 2359; Gaz. vol. 176; p. 403.
Twine-holder. A. O. Hendricks. No. 1,035,188; Aug. 13; Gaz. vol. 181; p. 294.
Twine-holder. A. V. Shull. No. 1,046,877; Dec. 10; Gaz. vol. 185; p. 415.
Twine holder, Wrapping-. D. D. Niswonger. No. 1,040,740; Oct. 8; Gaz. vol. 183; p. 396.
Twine-machine feeding device, Grass-. E. W. Goodrick. No. 1,048,687; Dec. 31; Gaz. vol. 185; p. 1136.
Twine, Machine for the manufacture of. J. Dymock. No. 1,015,154; Jan. 16; Sp. p. 4562; Gaz. vol. 174; p. 769.
Twine machine, Grass-. O. T. Waite. No. 1,019,383; Mar. 5; Sp. p. 885; Gaz. vol. 176; p. 131.
Twine machine, Grass-. T. W. Jerrems. No. 1,023,081; Apr. 9; Sp. p. 2821; Gaz. vol. 177; p. 480.
Twine machine, Grass-. E. W. Goodrick. No. 1,048,686; Dec. 31; Gaz. vol. 185; p. 1136.
Twine machines, Feeding mechanism for grass-. T. W. Jerrems. No. 1,018,423; Feb. 27; Sp. p. 4849; Gaz. vol. 175; p. 859.
Twine-reel. F. R. Sawyer. No. 1,039,820; Oct. 1; Gaz. vol. 183; p. 51.
Twisted cord or thread and for reeling the same, Automatically-acting machine for making a. L. A. Subers and E. Mosman. No. 1,039,211; Sept. 24; Gaz. vol. 182; p. 773.
Twisting-frame stop-motion device. T. A. Boyd. No. 1,047,124; Dec 10; Gaz. vol. 185; p. 498.
Twisting-machine. J. Ryan. No. 1,029,465; June 11; Sp. p. 3039; Gaz. vol. 179; p. 508.
Twisting-machine. W. Spink and J. M. Baltz. No. 1,030,937; July 2; Gaz. vol. 180; p. 30.
Twisting-machine. I. L. Wolkow. No. 1,039,876; Oct. 1; Gaz. vol. 183; p. 69.
Twisting-machines, &c., Stop-motion for. T. J. Kelly. No. 1,033,804; July 30; Gaz. vol. 180; p. 1155.
Two-cycle engine. J. J. McGuire. No. 1,014,078; Jan. 9; Sp. p. 2212; Gaz. vol. 174; p. 370.
Two-cycle engine. A. Winton and H. B. Anderson. No. 1,046,359; Dec. 3; Gaz. vol. 185; p. 196.
Twyer, Converter-. F. H. Blanding. No. 1,035,772; Aug. 13; Gaz. vol. 181; p. 493.
Twyers, Eyesight-plate for. J. B. Rogers. No. 1,045,189; Nov. 26; Gaz. vol. 184; p. 835.
Tying device, Bundle-. P. K. Brink. No. 1,022,462; Apr. 9; Sp. p. 1503; Gaz. vol. 177; p. 269.
Tying machine, Knot-. W. A. Smith. No. 1,030,619; June 25; Sp. p. 5741; Gaz. vol. 179; p. 988.
Type. M. Pfau. No. 1,018,985; Feb. 27; Sp. p. 6113; Gaz. vol. 175; p. 1050.
Type-bar. L. Ranney. No. 1,048,878; Dec. 31; Gaz. vol. 185; p. 1201.
Type-bar key-action. J. B. Secor. No. 1,037,339; Sept. 3; Gaz. vol. 182; p. 53.
Type-bar mounting. M. Pfau. No. 1,018,986; Feb. 27; Sp. p. 6115; Gaz. vol. 175; p. 1050.
Type-bar pivot. R. Endemann. No. 1,040,658; Oct. 8; Gaz. vol. 183; p. 369.
Type-bar-supporting frame. J. Raber. No. 1,018,989; Feb. 27; Sp. p. 6119; Gaz. vol. 175; p. 1051.
Type-blocks, Changeable. J. J. Howard. No. 1,039,131; Sept. 24; Gaz. vol. 182; p. 745.
Type-blocks, Holder for changeable. J. H. Matthews. No. 1,041,647; Oct. 15; Gaz. vol. 183; p. 730.
Type-case. B. O. Fanslow. No. 1,017,520; Feb. 13; Sp. p. 2849; Gaz. vol. 175; p. 480.
Type-case cabinet. W. B. Pattillo. No. 1,033,458; July 23; Gaz. vol. 180; p. 1016.
Type casting and composing machine. J. S. Bancroft and M. C. Indahl. No. 1,024,492; Apr. 30; Sp. p. 5882; Gaz. vol. 177; p. 1052.
Type casting and composing machine. E. B. Barber. No. 1,028,660; June 4; Sp. p. 1286; Gaz. vol. 179; p. 198.
Type casting and composing machine. F. Schimmel. No. 1,042,285; Oct. 22; Gaz. vol. 183; p. 981.
Type casting and composing machine. O. V. Sigurdsson. No. 1,043,261; Nov. 5; Gaz. vol. 184; p. 76.
Type casting and composing machines, Control mechanism for. J. S. Bancroft and M. C. Indahl. No. 1,042,382; Oct. 29; Gaz. vol. 183; p. 1041.
Type casting and composing machines, Matrices for. J. C. Grant. No. 1,035,343; Aug. 13; Gaz. vol. 181; p. 349.
Type casting and composing machines, Spacing mechanism for. F. H. Pierpont. No. 1,042,476; Oct. 29; Gaz. vol. 183; p. 1076.
Type-casting machine. B. Leffingwell. No. 1,024,514; Apr. 30; Sp. p. 5942; Gaz. vol. 177; p. 1060.
Type-casting machine. F. H. Pierpont. No. 1,024,524; Apr. 30; Sp. p. 5973; Gaz. vol. 177; p. 1064.
Type-casting machine. J. S. Thompson. No. 1,026,185; May 14; Sp. p. 2407; Gaz. vol. 178; p. 406
Type-casting machine. R. H. Little. No. 1,033,024; July 16; Gaz. vol. 180; p. 831.
Type-casting machine. O. V. Sigurdsson. No. 1,045,202; Nov. 26; Gaz. vol. 184; p. 840.
Type-casting machines, &c., Metal-pot for. J. S. Thompson. No. 1,029,243; June 11; Sp. p. 2547; Gaz. vol. 179; p. 432.
Type, Chase for holding composed forms of. H. F. Bechman. No. 1,016,605; Feb. 6; Sp. p. 864; Gaz. vol. 175; p. 129.
Type-die. J. S. Duncan. No. 1,048,461; Dec. 24; Gaz. vol. 185; p. 1018.
Type-forming machine. M. Pfau. No. 1,037,169; Aug. 27; Gaz. vol. 181; p. 1039.
Type-galleys, Gage for. A. S. Ferguson and G. W. Robertson. No. 1,032,594; July 16; Gaz. vol. 180; p. 686.
Type-holding mechanism, Rotatable. H. C. Gammeter. No. 1,015,760; Jan. 23; Sp. p. 5879; Gaz. vol. 174; p. 1002.
Type-holding rails, Clip for use with. F. Hohenberger. No. 1,031,447; July 2; Gaz. vol. 180; p. 209.
Type-justifying machine. W. T. Hoofnagle. No. 1,022,418; Apr. 9; Sp. p. 1383; Gaz. vol. 177; p. 254.
Type-matrices, Machine for setting and casting from lines of. F. Schimmel. No. 1,038,445; Sept. 10; Gaz. vol. 182; p. 461.
Type-mold. J. E. Hanrahan. No. 1,015,020; Jan. 16; Sp. p. 4304; Gaz. vol. 174; p. 724.
Type-mold. A. L. Knight and W. N. Clements. No. 1,024,512; Apr. 30; Sp. p. 5937; Gaz. vol. 177; p. 1059.

Alphabetical list of inventions—Continued.

Type, Printer's. W. M. Kelly. No. 1,016,224; Jan. 30; Sp. p. 6834; Gaz. vol. 174; p. 1188.
Type-setter. E. Duscher. No. 1,043,910; Nov. 12; Gaz. vol. 184; p. 334.
Type setting and distributing machine. H. C. Gammeter. No. 1,034,099; July 30; Gaz. vol. 180; p. 1261.
Type setting and distributing machine. W. A. Twining. No. 1,036,751; Aug. 27; Gaz. vol. 181; p. 900.
Type setting and justifying machine. J. S. Thompson. No. 1,038,234; Sept. 10; Gaz. vol. 182; p. 386.
Type-setting device. H. Drewell. No. 1,026,243; May 14; Sp. p. 2547; Gaz. vol. 178; p. 427.
Type-setting device. M. R. Parks. No. 1,042,368; Oct. 22; Gaz. vol. 183; p. 1009.
Type-setting machine. J. Steel. No. 1,013,624; Jan. 2; Sp. p. 1157; Gaz. vol. 174; p. 184.
Type-setting machine. A. B. Dick. No. 1,031,326; July 2; Gaz. vol. 180; p. 168.
Type-setting machine. A. G. Baker. No. 1,045,360; Nov. 26; Gaz. vol. 184; p. 895.
Type-writer. R. A. Spurgin. No. 1,015,594; Jan. 23; Sp. p. 5531; Gaz. vol. 174; p. 946.
Type-writer. A. C. Kendrick. No. 1,020,145; Mar. 12; Sp. p. 2418; Gaz. vol. 176; p. 413.
Type-writer. J. C. Hartt. No. 1,022,673; Apr. 9; Sp. p. 1948; Gaz. vol. 177; p. 339.
Type-writer. G. W. Davis. No. 1,025,129; May 7; Sp. p. 37; Gaz. vol. 178; p. 7.
Type-writer. C. J. Paulson. No. 1,025,204; May 7; Sp. p. 209; Gaz. vol. 178; p. 35.
Type-writer. Z. G. Sholes and J. M. Fraaz. No. 1,026,056; May 14; Sp. p. 2126; Gaz. vol. 178; p. 361.
Type-writer. Z. G. Sholes. No. 1,029,324; June 11; Sp. p. 2723; Gaz. vol. 179; p. 461.
Type-writer. J. A. Whitcomb. No. 1,035,928; Aug. 20; Gaz. vol. 181; p. 584.
Type-writer. J. B. Pickett. No. 1,037,981; Sept. 10; Gaz. vol. 182; p. 304.
Type-writer. C. L. Springer. No. 1,043,265; Nov. 5; Gaz. vol. 184; p. 78.
Type-writer. H. Moya. No. 1,045,059; Nov. 19; Gaz. vol. 184; p. 763.
Type-writer. J. F. Murdock and W. J. McFarlan. No. 1,048,854; Dec. 31; Gaz. vol. 185; p. 1193.
Type-writer. I. E. Jones and F. J. Tanner. No. 1,048,974; Dec. 31; Gaz. vol. 185; p. 1234.
Type-writer action. J. Alexander. No. 1,041,556; Oct. 15; Gaz. vol. 183; p. 700.
Type-writer action. J. Alexander. No. 1,041,558; Oct. 15; Gaz. vol. 183; p. 701.
Type-writer action. J. Alexander. No. 1,041,560; Oct. 15; Gaz. vol. 183; p. 701.
Type-writer action. J. Alexander. No. 1,048,266; Dec. 24; Gaz. vol. 185; p. 951.
Type-writer alarm. G. H. Smiley. No. 1,038,218; Sept. 10; Gaz. vol. 182; p. 380.
Type-writer and other key-controlled machine. J. T. Schaaff. No. 1,040,584; Oct. 8; Gaz. vol. 183; p. 340.
Type-writer attachment. W. A. Davis. No. 1,018,411; Feb. 27; Sp. p. 4830; Gaz. vol. 175; p. 855.
Type-writer attachment. J. J. McFadden. No. 1,018,511; Feb. 27; Sp. p. 5096; Gaz. vol. 175; p. 888.
Type-writer attachment. C. P. Swank. No. 1,027,395; May 21; Sp. p. 5093; Gaz. vol. 178; p. 856.
Type-writer attachment. J. L. Walker. No. 1,031,215; July 2; Gaz. vol. 180; p. 130.
Type-writer attachment. L. Lamarque. No. 1,041,491; Oct. 15; Gaz. vol. 183; p. 679.
Type-writer attachment. P. B. Horne. No. 1,042,373; Oct. 22; Gaz. vol. 183; p. 1011.
Type-writer attachment. R. H. Millward. No. 1,045,424; Nov. 26; Gaz. vol. 184; p. 918.
Type-writer attachment. J. C. Lodor. No. 1,048,979; Dec. 31; Gaz. vol. 185; p. 1236.
Type-writer, Book. F. Wissner. No. 1,026,619; May 14; Sp. p. 3342; Gaz. vol. 178; p. 552.
Type-writer carriage. J. Raber. No. 1,016,175; Jan. 30; Sp. p. 6741; Gaz. vol. 174; p. 1172.
Type-writer carriage-feed. J. Alexander. No. 1,041,555; Oct. 15; Gaz. vol. 183; p. 700.
Type-writer carriage-feed. J. Alexander. No. 1,041,557; Oct. 15; Gaz. vol. 183; p. 700.
Type-writer carriage-feeding mechanism. J. Alexander. No. 1,048,265; Dec. 24; Gaz. vol. 185; p. 951.
Type-writer case-shift mechanism. J. Alexander. No. 1,013,264; Jan. 2; Sp. p. 380; Gaz. vol. 174; p. 61.
Type-writer centering mechanism. M. Pfau. No. 1,026,601; May 14; Sp. p. 3297; Gaz. vol. 178; p. 545.
Type-writer copy-holder. G. Stavens. No. 1,033,288; July 23; Gaz. vol. 180; p. 961.
Type-writer copying attachment. J. Kerner. No. 1,045,796; Nov. 26; Gaz. vol. 184; p. 1049.
Type-writer counting attachment. J. L. Walker. No. 1,033,361; July 23; Gaz. vol. 180; p. 985.
Type-writer desk. J. Vaaler. No. 1,035,664; Aug. 13; Gaz. vol. 181; p. 457.
Type-writer desk. J. S. Hunter. No. 1,037,627; Sept. 3; Gaz. vol. 182; p. 150.
Type-writer escapement. L. P. Diss. No. 1,021,182; Mar. 26; Sp. p. 4620; Gaz. vol. 176; p. 848.
Type-writer escapement-clutch. M. Pfau. No. 1,016,172; Jan. 30; Sp. p. 6737; Gaz. vol. 174; p. 1171.
Type-writer escapement mechanism. M. H. Lockwood. No. 1,019,328; Mar. 5; Sp. p. 725; Gaz. vol. 176; p. 113.
Type-writer escapement mechanisms, Holder for. A. Stieg. No. 1,021,641; Mar. 26; Sp. p. 5594; Gaz. vol. 176; p. 1005.
Type-writer feed, Automatic. S. W. Jones. No. 1,028,026; May 28; Sp. p. 6429; Gaz. vol. 178; p. 1103.
Type-writer key. W. D. Summerville. No. 1,041,696; Oct. 15; Gaz. vol. 183; p. 746.
Type-writer key and type-bar mechanism. J. Alexander. No. 1,013,096; Jan. 2; Sp. p. 3; Gaz. vol. 174; p. 3.
Type-writer key and type-bar mechanism. J. Alexander. No. 1,039,472; Sept. 24; Gaz. vol. 182; p. 865.
Type-writer key-lock. M. Pfau. No. 1,021,627; Mar. 26; Sp. p. 5569; Gaz. vol. 176; p. 1000.
Type-writer keyboard. J. A. Schmitt. No. 1,030,020; June 18; Sp. p. 4250; Gaz. vol. 179; p. 736.
Type-writer line-spacing. J. Alexander. No. 1,030,445; June 25; Sp. p. 5198; Gaz. vol. 179; p. 925.
Type-writer line-spacing mechanism. P. J. Dreher. No. 1,028,845; June 4; Sp. p. 1668; Gaz. vol. 179; p. 260.
Type-writer paper-feeding mechanism. G. W. Davis. No. 1,034,984; Aug. 6; Gaz. vol. 181; p. 195.
Type-writer platen-actuating mechanism. H. Bates. No. 1,034,058; July 30; Gaz. vol. 180; p. 1246.
Type-writer, Pocket. H. Viry. No. 1,037,564; Sept. 3; Gaz. vol. 182; p. 131.
Type-writer press, Multiple. J. Stafford and O. C. Currie. No. 1,024,461; Apr. 23; Sp. p. 5782; Gaz. vol. 177; p. 1005.
Type-writer ribbon-cabinet. F. G. Berg. No. 1,020,475; Mar. 19; Sp. p. 3106; Gaz. vol. 176; p. 560.
Type-writer ribbon-carrier. M. H. Lockwood. No. 1,027,488; May 28; Sp. p. 5272; Gaz. vol. 178; p. 924.
Type-writer ribbon mechanism. J. Alexander. No. 1,013,095; Jan. 2; Sp. p. 1; Gaz. vol. 174; p. 3.
Type-writer ribbon mechanism. J. Alexander. No. 1,039,473; Sept. 24; Gaz. vol. 182; p. 866.
Type-writer ribbon mechanism. H. A. Foothorap. No. 1,039,920; Oct. 1; Gaz. vol. 183; p. 83.
Type-writer ribbon-spool mechanism. C. Spiro. No. 1,041,184; Oct. 15; Gaz. vol. 183; p. 577.
Type-writer ribbons, Machine for testing the life of. F. M. Allen. No. 1,013,832; Jan. 2; Sp. p. 1613; Gaz. vol. 174; p. 258.
Type-writer ribbons, Means for treating. C. Owens. No. 1,049,139; Dec. 31; Gaz. vol. 185; p. 1291.
Type-writer shifting attachment. C. Olson. No. 1,039,178; Sept. 24; Gaz. vol. 182; p. 761.
Type-writer shuttle-shield frame. J. A. Ruffin. No. 1,035,747; Aug. 13; Gaz. vol. 181; p. 485.
Type-writer striking mechanism. P. J. Dreher. No. 1,043,410; Nov. 5; Gaz. vol. 184; p. 130.
Type-writer support. J. M. Bainer, H. R. and A. W. Spurling. No. 1,047,145; Dec. 17; Gaz. vol. 185; p. 535.
Type-writer tabulating mechanism. M. H. Lockwood. No. 1,017,301; Feb. 13; Sp. p. 2374; Gaz. vol. 175; p. 404.
Type-writer tabulator. J. B. Hammond. No. 1,041,071; Oct. 15; Gaz. vol. 183; p. 539.
Type-writer variable-line-space mechanism. J. B. Secor. No. 1,033,125; July 23; Gaz. vol. 180; p. 904.
Type-writers and the like, Ribbon-reverse mechanism for. H. Hopkins. No. 1,027,732; May 28; Sp. p. 5768; Gaz. vol. 178; p. 1005.
Type-writers and type-setting machines, Word-counting attachment for. E. F. Goin. No. 1,030,075; June 18; Sp. p. 4379; Gaz. vol. 179; p. 755.
Type-writers, Back-feed mechanism for. A. Stieg. No. 1,018,995; Feb. 27; Sp. p. 6132; Gaz. vol. 175; p. 1053.
Type-writers, Calculating mechanism for. H. Sugden and C. F. Pidgin. No. 1,044,597; Nov. 19; Gaz. vol. 184; p. 602.
Type-writers, Envelop, card, and sheet feeder for. W. H. and R. B. McArdle. No. 1,038,406; Sept. 10; Gaz. vol. 182; p. 446.
Type-writers, Envelop-feeding device for. M. J. D. Carter. No. 1,017,134; Feb. 13; Sp. p. 2018; Gaz. vol. 175; p. 346.
Type-writers, Erasing device for. H. M. Vaughan. No. 1,019,205; Mar. 5; Sp. p. 438; Gaz. vol. 176; p. 70.
Type-writers, Feed mechanism for. J. H. Stanfield and L. D. Stocking. No. 1,035,649; Aug. 13; Gaz. vol. 181; p. 453.
Type-writers, Mechanism for feeding paper to. T. A. McCall. No. 1,029,206; June 11; Sp. p. 2462; Gaz. vol. 179; p. 417.
Type-writing, adding, and subtracting machine, Combined. J. A. Smith. No. 1,037,350; Sept. 3; Gaz. vol. 182; p. 57.
Type-writing and adding machine. W. H. Pike, Jr. No. 1,037,521; Sept. 3; Gaz. vol. 182; p. 117.
Type-writing and adding machine, Combination. W. H. Muzzy. No. 1,013,211; Jan. 2; Sp. p. 250; Gaz. vol. 174; p. 42.
Type-writing and adding machine, Combined. E. S. Newman. No. 1,015,630; Jan. 23; Sp. p. 5597; Gaz. vol. 174; p. 959.

Alphabetical list of inventions—Continued.

Type-writing and calculating machine. A. W. Harris. No. 1,029,500; June 11; Sp. p. 3105; Gaz. vol. 179; p. 521.
Type-writing and computing machine. C. C. Taylor. No. 1,032,347; July 9; Gaz. vol. 180; p. 559.
Type-writing and computing machine, Combined. F. F. Main. No. 1,013,670; Jan. 2; Sp. p. 1281; Gaz. vol. 174; p. 201.
Type-writing and computing machine, Combined. G. O. Degener. No. 1,020,082; Mar. 12; Sp. p. 2283; Gaz. vol. 176; p. 393.
Type-writing and computing machine, Combined. H. H. Steele. No. 1,023,687; Apr. 16; Sp. p. 4079; Gaz. vol. 177; p. 716.
Type-writing and computing machine, Combined. R. H. Strother. No. 1,034,375; July 30; Gaz. vol. 180; p. 1357.
Type-writing and computing machine, Combined. A. W. Smith. No. 1,036,921; Aug. 27; Gaz. vol. 181; p. 956.
Type-writing and other key-actuated machine. J. T. Schaaff. No. 1,040,585; Oct. 8; Gaz. vol. 183; p. 340.
Type-writing and similar machines, Key-cap for. C. F. Ehmsen. No. 1,021,975; Apr. 2; Sp. p. 485; Gaz. vol. 177; p. 77.
Type-writing device. J. A. Zellers and G. T. Price. No. 1,016,724; Feb. 6; Sp. p. 1105; Gaz. vol. 175; p. 170.
Type-writing, Keyboard-machine for setting and distributing type for facsimile. A. Heger. No. 1,017,667; Feb. 20; Sp. p. 3127; Gaz. vol. 175; p. 565.
Type-writing machine. J. H. Barr. No. 1,013,720; Jan. 9; Sp. p. 1850; Gaz. vol. 174; p. 317.
Type-writing machine. D. J. Richardson. No. 1,013,953; Jan. 9; Sp. p. 1934; Gaz. vol. 174; p. 328.
Type-writing machine. H. H. Steele. No. 1,013,964; Jan. 9; Sp. p. 1961; Gaz. vol. 174; p. 332.
Type-writing machine. C. H. Shepard. No. 1,014,335; Jan. 9; Sp. p. 2767; Gaz. vol. 174; p. 460.
Type-writing machine. C. H. Shepard. No. 1,014,336; Jan. 9; Sp. p. 2777; Gaz. vol. 174; p. 461.
Type-writing machine. A. W. Smith. No. 1,014,340; Jan. 9; Sp. p. 2794; Gaz. vol. 174; p. 462.
Type-writing machine. H. H. Steele. No. 1,014,673; Jan. 16; Sp. p. 3529; Gaz. vol. 174; p. 605.
Type-writing machine. H. H. Steele. No. 1,014,783; Jan. 16; Sp. p. 3769; Gaz. vol. 174; p. 641.
Type-writing machine. C. B. Yaw. No. 1,015,373; Jan. 23; Sp. p. 5045; Gaz. vol. 174; p. 870.
Type-writing machine. G. J. Griffiths. No. 1,015,559; Jan. 23; Sp. p. 5447; Gaz. vol. 174; p. 932.
Type-writing machine. J. R. MacCue. No. 1,015,810; Jan. 30; Sp. p. 5983; Gaz. vol. 174; p. 1046.
Type-writing machine. A. W. Smith. No. 1,015,849; Jan. 30; Sp. p. 6070; Gaz. vol. 174; p. 1058.
Type-writing machine. H. H. Steele. No. 1,016,043; Jan. 30; Sp. p. 6486; Gaz. vol. 174; p. 1129.
Type-writing machine. O. Woodward. No. 1,016,056; Jan. 30; Sp. p. 6512; Gaz. vol. 174; p. 1133.
Type-writing machine. C. B. Yaw. No. 1,016,057; Jan. 30; Sp p. 6517; Gaz. vol. 174; p. 1133.
Type-writing machine. J. H. Barr. No. 1,016,061; Jan. 30; Sp. p. 6529; Gaz. vol. 174; p. 1135.
Type-writing machine. T. J. Coo. No. 1,016,250; Feb. 6; Sp. p. 8; Gaz. vol. 175; p. 4.
Type-writing machine. R. Seidelinger. No. 1,016,297; Feb. 6; Sp. p. 133; Gaz. vol. 175; p. 21.
Type-writing machine. C. J. Bond. No. 1,016,318; Feb. 6; Sp. p. 186; Gaz. vol. 175; p. 28.
Type-writing machine. G. Mez. No. 1,016,351; Feb. 6; Sp. p. 259; Gaz. vol. 175; p. 40.
Type-writing machine. J. H. Barr. No. 1,016,540; Feb. 6; Sp. p. 723; Gaz. vol. 175; p. 106.
Type-writing machine. J. H. Garsden. No. 1,016,686; Feb. 6; Sp p. 1031; Gaz. vol. 175; p. 157.
Type-writing machine. J. H. Barr. No. 1,016,927; Feb. 13; Sp. p. 1536; Gaz. vol. 175; p. 273.
Type-writing machine. A. W. Smith. No. 1,016,968; Feb. 13; Sp. p. 1640; Gaz. vol. 175; p. 288.
Type-writing machine. C. E. Smith. No. 1,017,022; Feb. 13; Sp. p. 1754; Gaz. vol. 175; p. 306.
Type-writing machine. E. F. Griffin. No. 1,017,050; Feb. 13; Sp. p. 1821; Gaz. vol. 175; p. 316.
Type-writing machine. C. W. Walker. No. 1,017,717; Feb. 20; Sp. p. 3228; Gaz. vol. 175; p. 580.
Type-writing machine. W. J. Barron. No. 1,017,844; Feb. 20; Sp. p. 3567; Gaz. vol. 175; p. 626.
Type-writing machine. J. Felbel. No. 1,017,861; Feb. 20; Sp. p. 3602; Gaz. vol. 175; p. 631.
Type-writing machine. E. M. Crawford. No. 1,017,959; Feb. 20; Sp. p. 3844; Gaz. vol. 175; p. 666.
Type-writing machine. O. C. Kavle. No. 1,018,062; Feb. 20; Sp. p. 4074; Gaz. vol. 175; p. 703.
Type-writing machine. H. H. Steele. No. 1,018,639; Feb. 27; Sp. p. 5371; Gaz. vol. 175; p. 931.
Type-writing machine. W. A. Dyer. No. 1,018,701; Feb. 27; Sp. p. 5490; Gaz. vol. 175; p. 952.
Type-writing machine. W. A. Dyer. No. 1,018,748; Feb. 27; Sp. p. 5604; Gaz. vol. 175; p. 969.
Type-writing machine. H. H. Steele. No. 1,018,786; Feb. 27; Sp. p. 5683; Gaz. vol. 175; p. 982.
Type-writing machine. J. D. Daugherty. No. 1,018,811; Feb. 27; Sp. p. 5739; Gaz. vol. 175; p. 990.
Type-writing machine. A. G. F. Kurowski. No. 1,018,915; Feb. 27: Sp. p. 5948; Gaz. vol. 175; p. 1025.
Type-writing machine. F. A. Young. No. 1,018,950; Feb. 27; Sp. p. 6015; Gaz. vol. 175; p. 1037.
Type-writing machine. C. Gabrielson. No. 1,018,968; Feb. 27; Sp. p. 6068; Gaz. vol. 175; p. 1044.
Type-writing machine. C. V. Oliver. No. 1,019,077; Mar. 5; Sp. p. 149; Gaz. vol. 176; p. 25.
Type-writing machine. C. F. Lundeberg. No. 1,019,978; Mar. 12; Sp. p. 2071; Gaz. vol. 176; p. 357.
Type-writing machine. H. H. Steele. No. 1,020,227; Mar. 12; Sp. p. 2611; Gaz. vol. 176; p. 443.
Type-writing machine. F. D. Ammen. No. 1,020,871; Mar. 19; Sp. p. 3979; Gaz. vol. 176; p. 693.
Type-writing machine. J. A. Whitcomb. No. 1,021,120; Mar. 26; Sp. p. 4477; Gaz. vol. 176; p. 827.
Type-writing machine. A. G. F. Kurowski. No. 1,021,153; Mar. 26; Sp. p. 4558; Gaz. vol. 176; p. 838.
Type-writing machine. J. C. McLaughlin. No. 1,021,158; Mar. 26; Sp. p. 4569; Gaz. vol. 176; p. 840.
Type-writing machine. C. E. Smith. No. 1,021,382; Mar. 26; Sp. p. 5022; Gaz. vol. 176; p. 917.
Type-writing machine. R. W. Uhlig. No. 1,021,386; Mar. 26; Sp. p. 5041; Gaz. vol. 176; p. 918.
Type-writing machine. J. Waldheim. No. 1,021,391; Mar. 26; Sp. p. 5059; Gaz. vol. 176; p. 921.
Type-writing machine. J. Waldheim. No. 1,021,392; Mar. 26; Sp. p. 5071; Gaz. vol. 176; p. 921.
Type-writing machine. J. Waldheim. No. 1,021,393; Mar. 26; Sp. p. 5083; Gaz. vol. 176; p. 922.
Type-writing machine. O. Woodward. No. 1,021,395; Mar. 26; Sp. p. 5097; Gaz. vol. 176; p. 923.
Type-writing machine. J. Felbel. No. 1,021,513; Mar. 26; Sp. p. 5357; Gaz. vol. 176; p. 964.
Type-writing machine. G. J. Barrett. No. 1,021,817; Apr. 2; Sp. p. 142; Gaz. vol. 177; p. 25.
Type-writing machine. S. P. Harry. No. 1,021,835; Apr. 2; Sp. p. 187; Gaz. vol. 177; p. 31.
Type-writing machine. H. H. Steele. No. 1,021,953; Apr. 2; Sp. p. 433; Gaz. vol. 177; p. 70.
Type-writing machine. C. B. Corcoran. No. 1,021,970; Apr. 2; Sp. p. 472; Gaz. vol. 177; p. 75.
Type-writing machine. L. B. Wyckoff. No. 1,022,168; Apr. 2; Sp. p. 882; Gaz. vol. 177; p. 140.
Type-writing machine. J. C. McLaughlin. No. 1,022,373; Apr. 2; Sp. p. 1290; Gaz. vol. 177; p. 208.
Type-writing machine. C. B. Corcoran. No. 1,022,580; Apr. 9; Sp. p. 1742; Gaz. vol. 177; p. 307.
Type-writing machine. W. E. Barnard. No. 1,022,766; Apr. 9; Sp. p. 2180; Gaz. vol. 177; p. 374.
Type-writing machine. J. Purdy. No. 1,023,172; Apr. 16; Sp. p. 3074; Gaz. vol. 177; p. 550.
Type-writing machine. D. Briggs. No. 1,023,361; Apr. 16; Sp. p. 3436; Gaz. vol. 177; p. 614.
Type-writing machine. H. H. Steele. No. 1,023,535; Apr. 16; Sp. p. 3780; Gaz. vol. 177; p. 668.
Type-writing machine. B. P. Fortin. No. 1,023,788; Apr. 16; Sp. p. 4255; Gaz. vol. 177; p. 748.
Type-writing machine. W. J. Barron. No. 1,023,796; Apr. 23; Sp. p. 4289; Gaz. vol. 177; p. 779.
Type-writing machine. H. E. Bridgwater. No. 1,023,805; Apr. 23; Sp. p. 4320; Gaz. vol. 177; p. 783.
Type-writing machine. A. T. Brown. No. 1,023,808; Apr. 23; Sp. p. 4330; Gaz. vol. 177; p. 784.
Type-writing machine. H. H. Steele. No. 1,023,891; Apr. 23; Sp. p. 4532; Gaz. vol. 177; p. 811.
Type-writing machine. H. H. Steele. No. 1,024,157; Apr. 23; Sp. p. 5136; Gaz. vol. 177; p. 903.
Type-writing machine. J. Felbel. No. 1,024,250; Apr. 23; Sp. p. 5352; Gaz. vol. 177; p. 938.
Type-writing machine. M. W. Pool. No. 1,024,280; Apr. 23; Sp. p. 5409; Gaz. vol. 177; p. 947.
Type-writing machine. O. Pfeiffer. No. 1,024,745; Apr. 30; Sp. p. 6475; Gaz. vol. 177; p. 1114.
Type-writing machine. H. L. Woodward. No. 1,024,759; Apr. 30; Sp. p. 6507; Gaz. vol. 177; p. 1146.
Type-writing machine. W. J. Barron. No. 1,025,046; Apr. 30; Sp. p. 7078; Gaz. vol. 177; p. 1245.
Type-writing machine. F. W. Hillard. No. 1,025,089; Apr. 30; Sp. p. 7174; Gaz. vol. 177; p. 1253.
Type-writing machine. J. Waldheim. No. 1,025,171; May 7; Sp. p. 134; Gaz. vol. 178; p. 23.
Type-writing machine. G. H. Smith. No. 1,025,213; May 7; Sp. p. 228; Gaz. vol. 178; p. 38.
Type-writing machine. H. H. Steele. No. 1,025,544; May 7; Sp. p. 983; Gaz. vol. 178; p. 152.
Type-writing machine. O. E. Hull. No. 1,025,627; May 7; Sp. p. 1172; Gaz. vol. 178; p. 180.
Type-writing machine. J. Purdy. No. 1,025,644; May 7; Sp. p. 1204; Gaz. vol. 178; p. 185.
Type-writing machine. E. E. Barney. No. 1,025,669; May 7; Sp. p. 1252; Gaz. vol. 178; p. 193.
Type-writing machine. E. G. Latta. No. 1,025,752; May 7; Sp. p. 1419; Gaz. vol. 178; p. 223.
Type-writing machine. B. A. Brooks. No. 1,025,943; May 7; Sp. p. 1860; Gaz. vol. 178; p. 287.
Type-writing machine. F. C. Miller. No. 1,026,171; May 14; Sp. p. 2379; Gaz. vol. 178; p. 401.
Type-writing machine. H. H. Steele. No. 1,026,372; May 14; Sp. p. 2840; Gaz. vol. 178; p. 470.

Alphabetical list of inventions—Continued.

Type-writing machine. J. Felbel. No. 1,026,640; May 14; Sp. p. 3394; Gaz. vol. 178; p. 559.
Type-writing machine. F. W. Hillard. No. 1,026,642; May 14; Sp. p. 3399; Gaz. vol. 178; p. 560.
Typewriting machine. L. P. Polhuis. No. 1,026,879; May 21; Sp. p. 3937; Gaz. vol. 178; p. 679.
Type-writing machine. F. W. Hillard. No. 1,027,050; May 21; Sp. p. 4354; Gaz. vol. 178; p. 739.
Type-writing machine. B. J. V. A. Flugel. No. 1,027,717; May 28; Sp. p. 5739; Gaz. vol. 178; p. 1000.
Type-writing machine. G. A. Seib. No. 1,027,776; May 28; Sp. p. 5858; Gaz. vol. 178; p. 1019.
Type-writing machine. F. W. Hillard. No. 1,027,843; May 28; Sp. p. 6011; Gaz. vol. 178; p. 1043.
Type-writing machine. C. B. Yaw. No. 1,027,963; May 28; Sp. p. 6304; Gaz. vol. 178; p. 1083.
Type-writing machine. A. Utz. No. 1,028,159; June 4; Sp. p. 181; Gaz. vol. 179; p. 27.
Type-writing machine. E. B. Hess. No. 1,028,214; June 4; Sp. p. 346; Gaz. vol. 179; p. 48.
Type-writing machine. P. J. Dreher. No. 1,028,556; June 4; Sp. p. 1073; Gaz. vol. 179; p. 163.
Type-writing machine. J. Waldheim. No. 1,028,922; June 11; Sp. p. 1861; Gaz. vol. 179; p. 322.
Type-writing machine. A. T. Brown. No. 1,029,101; June 11; Sp. p. 2248; Gaz. vol. 179; p. 382.
Type-writing machine. P. Meyer and K. Nuese. No. 1,030,005; June 18; Sp. p. 4215; Gaz. vol. 179; p. 731.
Type-writing machine. H. H. Steele. No. 1,030,029; June 18; Sp. p. 4265; Gaz. vol. 179; p. 739.
Type-writing machine. W. J. Barron. No. 1,030,453; June 25; Sp. p. 5213; Gaz. vol. 179; p. 928.
Type-writing machine. A. T. Brown. No. 1,030,500; June 25; Sp. p. 5331; Gaz. vol. 179; p. 944.
Type-writing machine. A. W. Clauder. No. 1,030,503; June 25; Sp. p. 5344; Gaz. vol. 179; p. 945.
Type-writing machine. E. B. Hess. No. 1,031,929; July 9; Gaz. vol. 180; p. 417.
Type-writing machine. E. B. Hess. No. 1,031,930; July 9; Gaz. vol. 180; p. 418.
Type-writing machine. C. H. Shepard. No. 1,032,087; July 9; Gaz. vol. 180; p. 469.
Type-writing machine. H. H. Steele. No. 1,032,090; July 9; Gaz. vol. 180; p. 469.
Type-writing machine. C. Gabrielson. No. 1,032,131; July 9; Gaz. vol. 180; p. 482.
Type-writing machine. T. L. Knapp. No. 1,032,685; July 16; Gaz. vol. 180; p. 719.
Type-writing machine. M. W. Pool. No. 1,033,268; July 23; Gaz. vol. 180; p. 954.
Type-writing machine. C. H. Shepard. No. 1,033,481; July 23; Gaz. vol. 180; p. 1024.
Type-writing machine. F. Lasere. No. 1,033,709; July 23; Gaz. vol. 180; p. 1097.
Type-writing machine. G. H. Smith. No. 1,034,154; July 30; Gaz. vol. 180; p. 1279.
Type-writing machine. C. B. Yaw. No. 1,034,554; Aug. 6; Gaz. vol. 181; p. 51.
Type-writing machine. B. P. Finigan. No. 1,035,177; Aug. 13; Gaz. vol. 181; p. 290.
Type-writing machine. R. R. King and G. T. Price. No. 1,035,197; Aug. 13; Gaz. vol. 181; p. 297.
Type-writing machine. C. H. Bell. No. 1,035,409; Aug. 13; Gaz. vol. 181; p. 372.
Type-writing machine. M. Schiesari. No. 1,035,750; Aug. 13; Gaz. vol. 181; p. 486.
Type-writing machine. M. Schiesari. No. 1,035,814; Aug. 13; Gaz. vol. 181; p. 508.
Type-writing machine. J. Waldheim. No. 1,036,388; Aug. 20; Gaz. vol. 181; p. 746.
Type-writing machine. C. B. Yaw. No. 1,036,947; Aug. 27; Gaz. vol. 181; p. 964.
Type-writing machine. H. H. Steele. No. 1,037,076; Aug. 27; Gaz. vol. 181; p. 1009.
Type-writing machine. E. G. Latta. No. 1,038,906; Sept. 17; Gaz. vol. 182; p. 655.
Type-writing machine. E. G. Latta. No. 1,038,907; Sept. 17; Gaz. vol. 182; p. 656.
Type-writing machine. A. W. Smith. No. 1,040,042; Oct. 1; Gaz. vol. 183; p. 124.
Type-writing machine. H. A. Carhart. No. 1,040,272; Oct. 8; Gaz. vol. 183; p. 231.
Type-writing machine. J. Felbel. No. 1,040,298; Oct. 8; Gaz. vol. 183; p. 240.
Type-writing machine. M. W. Pool. No. 1,040,405; Oct. 8; Gaz. vol. 183; p. 276.
Type-writing machine. M. W. Pool. No. 1,040,406; Oct. 8; Gaz. vol. 183; p. 277.
Type-writing machine. O. Woodward. No. 1,041,217; Oct. 15; Gaz. vol. 183; p. 588.
Type-writing machine. W. E. Palmer. (Reissue.) No. 13,478; Oct. 15; Gaz. vol. 183; p. 754.
Type-writing machine. W. E. Barnard. No. 1,041,722; Oct. 22; Gaz. vol. 183; p. 791.
Type-writing machine. W. E. Barnard. No. 1,041,723; Oct. 22; Gaz. vol. 183; p. 791.
Type-writing machine. E. L. Pfunder. No. 1,042,033; Oct. 22; Gaz. vol. 183; p. 900.
Type-writing machine. W. J. Barron. No. 1,042,868; Oct. 29; Gaz. vol. 183; p. 1214.
Type-writing machine. A. W. Smith. No. 1,043,160; Nov. 5; Gaz. vol. 184; p. 40.
Type-writing machine. H. H. Steele. No. 1,043,166; Nov. 5; Gaz. vol. 184; p. 43.
Type-writing machine. C. E. Smith. No. 1,043,262; Nov. 5; Gaz. vol. 184; p. 76.
Type-writing machine. C. E. Smith. No. 1,043,368; Nov. 5; Gaz. vol. 184; p. 116.
Type-writing machine. J. Waldheim. No. 1,043,485; Nov. 5; Gaz. vol. 184; p. 158.
Type-writing machine. A. W. Smith. No. 1,043,738; Nov. 5; Gaz. vol. 184; p. 243.
Type-writing machine. J. F. Judd. No. 1,043,940; Nov. 12; Gaz. vol. 184; p. 345.
Type-writing machine. F. A. Young. No. 1,043,998; Nov. 12; Gaz. vol. 184; p. 367.
Type-writing machine. H. C. Ford. No. 1,044,037; Nov. 12; Gaz. vol. 184; p. 379.
Type-writing machine. H. H. Steele. No. 1,044,100; Nov. 12; Gaz. vol. 184; p. 401.
Type-writing machine. C. B. Yaw. No. 1,044,116; Nov. 12; Gaz. vol. 184; p. 406.
Type-writing machine. H. H. Steele. No. 1,044,285; Nov. 12; Gaz. vol. 184; p. 464.
Type-writing machine. F. A. Young. No. 1,044,331; Nov. 12; Gaz. vol. 184; p. 479.
Type-writing machine. F. A. Young. No. 1,044,332; Nov. 12; Gaz. vol. 184; p. 480.
Type-writing machine. E. B. Hess. No. 1,044,783; Nov. 19; Gaz. vol. 184; p. 668.
Type-writing machine. C. B. Corcoran. No. 1,045,374; Nov. 26; Gaz. vol. 184; p. 900.
Type-writing machine. H. H. Steele. No. 1,045,452; Nov. 26; Gaz. vol. 184; p. 928.
Type-writing machine. W. A. Lorenz. No. 1,046,205; Dec. 3; Gaz. vol. 185; p. 139.
Type-writing machine. C. W. Sponsel. No. 1,046,229; Dec. 3; Gaz. vol. 185; p. 150.
Type-writing machine. T. L. Knapp. No. 1,046,469; Dec. 10; Gaz. vol. 185; p. 272.
Type-writing machine. R. H. Strother. No. 1,046,893; Dec. 10; Gaz. vol. 185; p. 420.
Type-writing machine. L. B. Wyckoff. No. 1,047,476; Dec. 17; Gaz. vol. 185; p. 655.
Type-writing machine. W. H. Clayton. No. 1,049,291; Dec. 31; Gaz. vol. 185; p. 1342.
Type-writing-machine attachment. E. Z. Lewis. No. 1,017,299; Feb. 13; Sp. p. 2367; Gaz. vol. 175; p. 403.
Type-writing-machine card-holding attachment. W. Banta. No. 1,034,381; July 30; Gaz. vol. 180; p. 1359.
Type-writing machine, Coupon-strip. W. E. Freeman and C. C. Worth. No. 1,037,463; Sept. 3; Gaz. vol. 182; p. 98.
Type-writing-machine key and type-bar operating mechanism. J. Alexander. No. 1,046,710; Dec. 10; Gaz. vol. 185; p. 358.
Type-writing-machine locking device. H. H. Yelf. No. 1,037,399; Sept. 3; Gaz. vol. 182; p. 74.
Type-writing-machine paper-feed mechanism. O. C. Kavle. No. 1,033,415; July 23; Gaz. vol. 180; p. 1002.
Type-writing-machine ribbon feeding and operating mechanism. J. Alexander. No. 1,041,559; Oct. 15; Gaz. vol. 183; p. 701.
Type-writing-machine ribbon mechanism. W. R. Fox. No. 1,015,384; Jan. 23; Sp. p. 5065; Gaz. vol. 174; p. 874.
Type-writing-machine ribbon operating and feeding mechanism. J. Alexander. No. 1,048,267; Dec. 24; Gaz. vol. 185; p. 951.
Type-writing-machine ribbon-operating mechanism. J. Alexander. No. 1,046,711; Dec. 10; Gaz. vol. 185; p. 359.
Type-writing-machine ribbon-spool device. W. R. Fox. No. 1,014,962; Jan. 16; Sp. p. 4182; Gaz. vol. 174; p. 704.
Type-writing-machine ribbon-throw mechanism. A. F. Engel. No. 1,020,404; Mar. 19; Sp. p. 2957; Gaz. vol. 176; p. 537.
Type-writing-machine tabulating mechanism. G. C. Hoskin. No. 1,021,675; Mar. 26; Sp. p. 5647; Gaz. vol. 176; p. 1016.
Type-writing-machine tabulating mechanism. O. Thieme. No. 1,027,225; May 21; Sp. p. 4743; Gaz. vol. 178; p. 797.
Type-writing-machine tabulating mechanism. T. E. Buschmann. No. 1,035,778; Aug. 13; Gaz. vol. 181; p. 495.
Type-writing machines, Adjustable paper-guide finger for. O. Thieme. No. 1,029,832; June 18; Sp. p. 3836; Gaz. vol. 179; p. 673.
Type-writing machines, Platen mechanism for. J. Raber. No. 1,027,391; May 21; Sp. p. 5079; Gaz. vol. 178; p. 855.
Type-writing machines, Platen-rotating means for. O. Thieme. No. 1,028,505; June 4; Sp. p. 974; Gaz. vol. 179; p. 147.
Type-writing machines, Spring-barrel brake for. C. C. Harting and J. F. Flood. No. 1,018,760; Feb. 27; Sp. p. 5633; Gaz. vol. 175; p. 973.
Type-writing machines, Tabulating device for. R. Fallenstein. No. 1,023,827; Apr. 23; Sp. p. 4395; Gaz. vol. 177; p. 790.

Alphabetical list of inventions—Continued.

Type-writing machines, Tally-roll attachment for. O. Thieme. No. 1,029,153; June 11; Sp. p. 2353; Gaz. vol. 179; p. 401.
Type-writing machines, Tripping-block for. O. Thieme. No. 1,024,295; Apr. 23; Sp. p. 5433; Gaz. vol. 177; p. 952.
Type-writing, &c., machines, Paper-table extensible support for. J. T. Hurley. No. 1,033,054; July 16; Gaz. vol. 180; p. 841.
Typograph-machine. J. Dorneth. No. 1,021,828; Apr. 2; Sp. p. 172; Gaz. vol. 177; p. 28.
Typograph matrix-setting and line-casting machine. J. Dorneth. No. 1,030,878; July 2; Gaz. vol. 180; p. 10.
Typographic machine. E. Lawrenz. No. 1,017,771; Feb. 20; Sp. p. 3350; Gaz. vol. 175; p. 600.
Typographic machine. E. Lawrenz. No. 1,017,772; Feb. 20; Sp. p. 3375; Gaz. vol. 175; p. 600.
Typographic record-sheets, Apparatus for producing. M. E. Blume. No. 1,016,201; Jan. 30; Sp. p. 6791; Gaz. vol. 174; p. 1180.
Umbrella. B. E. Sutlive. No. 1,016,301; Feb. 6; Sp. p 141; Gaz. vol. 175; p. 22.
Umbrella. E. F. Fink. No. 1,020,816; Mar. 19; Sp. p. 3853; Gaz. vol. 176; p. 675.
Umbrella. O. A. Hodinger. No. 1,022,944; Apr. 9; Sp. p. 2557; Gaz. vol. 177; p. 434.
Umbrella. T. Susemihl and C. P. Carrington. No. 1,024,292; Apr. 23; Sp. p. 5428; Gaz. vol. 177; p. 951.
Umbrella. H. Miller. No. 1,026,820; May 21; Sp. p. 3801; Gaz. vol. 178; p. 658.
Umbrella. T. Susemihl and C. P. Carrington. (Reissue.) No. 13,430; June 18; Sp. p. 4797; Gaz. vol. 179; p. 824.
Umbrella. A. W. Thomas. No. 1,031,974; July 9; Gaz. vol. 180; p. 432.
Umbrella. A. C. Page. No. 1,032,234; July 9; Gaz. vol. 180; p. 520.
Umbrella. J. Ahern and L. Frederick. No. 1,033,651; July 23; Gaz. vol. 180; p. 1080.
Umbrella. A. Doruscak. No. 1,034,590; Aug. 6; Gaz. vol. 181; p. 63.
Umbrella. C. A. Parker. No. 1,036,142; Aug. 20; Gaz. vol. 181; p. 659.
Umbrella. C. Schonert. No. 1,037,060; Aug. 27; Gaz. vol. 181; p. 1004.
Umbrella. T. K. Berntson. No. 1,039,636; Sept. 24; Gaz. vol. 182; p. 923.
Umbrella. J. H. Hildreth. No. 1,045,976; Dec. 3; Gaz. vol. 185; p. 62.
Umbrella and parasol. F. P. Anello. No. 1,021,291; Mar. 26; Sp. p. 4853; Gaz. vol. 176; p. 886.
Umbrella attachment. T. C. Frederiksen. No. 1,032,199; July 9; Gaz. vol. 180; p. 507.
Umbrella-carrier. O. M. Bekkevar. No. 1,041,577; Oct. 15; Gaz. vol. 183; p. 706.
Umbrella, Collapsible. C. Storm. No. 1,018,941; Feb. 27; Sp. p. 5998; Gaz. vol. 175; p. 1034.
Umbrella, Contractible. S. M. Sargent. No. 1,047,450; Dec. 17; Gaz. vol. 185; p. 643.
Umbrella drip-cup. P. E. Davis. No. 1,031,916; July 9; Gaz. vol. 180; p. 413.
Umbrella, Foldable. S. McClellan. No. 1,013,555; Jan. 2; Sp. p. 1012; Gaz. vol. 174; p. 162.
Umbrella, Foldable. S. McClellan. No. 1,027,426; May 28; Sp. p. 5162; Gaz. vol. 178; p. 904.
Umbrella, Foldable. E. E. Hanson. No. 1,036,226; Aug. 20; Gaz. vol. 181; p. 690.
Umbrella, Folding. M. R. Ward. No. 1,020,236; Mar. 12; Sp. p. 2628; Gaz. vol. 176; p. 445.
Umbrella, Folding. M. Makowacz. No. 1,022,855; Apr. 9; Sp. p. 2360; Gaz. vol. 177; p. 403.
Umbrella, Folding. F. A. Lundquist. No. 1,023,211; Apr. 16; Sp. p. 3152; Gaz. vol. 177; p. 564.
Umbrella, Folding. M. F. Marean. No. 1,026,357; May 14; Sp. p. 2813; Gaz. vol. 178; p. 466.
Umbrella, Folding. W. O'Brien. No. 1,028,262; June 4; Sp. p. 434; Gaz. vol. 179; p. 63.
Umbrella, Folding. J. Peterson. No. 1,031,868; July 9; Gaz. vol. 180; p. 397.
Umbrella, Folding. J. A. Thomas. No. 1,034,846; Aug. 6; Gaz. vol. 181; p. 150.
Umbrella, Folding. W. A. Little. No. 1,039,977; Oct. 1; Gaz. vol. 183; p. 103.
Umbrella, Folding. F. B. Coll. No. 1,042,088; Oct. 22; Gaz. vol. 183; p. 917.
Umbrella, Folding. J. Tyminski. No. 1,042,174; Oct. 22; Gaz. vol. 183; p. 945.
Umbrella, Folding. J. Aragall. No. 1,042,522; Oct. 29; Gaz. vol. 183; p. 1092.
Umbrella, Folding. L. S. White. No. 1,043,651; Nov. 5; Gaz. vol. 184; p. 215.
Umbrella, Folding. J. Aragall. No. 1,045,358; Nov. 26; Gaz. vol. 184; p. 894.
Umbrella, Folding. B. A. Nygren. No. 1,045,595; Nov. 26; Gaz. vol. 184; p. 979.
Umbrella for theatrical purposes. H. Askin. No. 1,020,071; Mar. 12; Sp. p. 2264; Gaz. vol. 176; p. 389.
Umbrella-handle. G. Testa. No. 1,036,376; Aug. 20; Gaz. vol. 181; p. 742.
Umbrella-handle, Adjustable rib-tip-holding. A. Erickson. No. 1,042,417; Oct. 29; Gaz. vol. 183; p. 1054.
Umbrella-hanger. H. D. Hassard. No. 1,044,519; Nov. 19; Gaz. vol. 184; p. 574.
Umbrella-holder. O. Rauch. No. 1,020,846; Mar. 19; Sp. p. 3918; Gaz. vol. 176; p. 685.
Umbrella-holder. S. E. Bennett. No. 1,048,280; Dec. 24; Gaz. vol. 185; p. 957.
Umbrella or cane handles, Attaching. E. Kerr. No. 1,019,657; Mar. 5; Sp. p. 1430; Gaz. vol. 176; p. 220.
Umbrella-rack. F. F. Ward. No. 1,022,449; Apr. 9; Sp. p. 1473; Gaz. vol. 177; p. 264.
Umbrella-rod. C. Dünnenberger and B. Heierle. No. 1,042,658; Oct. 29; Gaz. vol. 183; p. 1141.
Umbrella-stand. N. Kramer. No. 1,013,662; Jan. 2; Sp. p. 1263; Gaz. vol. 174; p. 198.
Umbrella structure. J. Kirkley and F. A. White. No. 1,029,449; June 11; Sp. p. 3009; Gaz. vol. 179; p. 504.
Umbrella-support, Letter-carrier's. D. L. Wilson. No. 1,045,235; Nov. 26; Gaz. vol. 184; p. 852.
Umbrella, Telescopic. W. J. Schlafke. No. 1,044,823; Nov. 19; Gaz. vol. 184; p. 681.
Umbrella window-insert. R. C. Flues. No. 1,023,635; Apr. 16; Sp. p 3999; Gaz. vol. 177; p. 702.
Umbrellas, parasols, &c., Traveling-case for. L. L. Mitchell. No. 1,031,361; July 2; Gaz. vol. 180; p. 180.
Uncoupling device. W. Kelso. No. 1,021,411; Mar. 26; Sp. p. 5133; Gaz. vol. 176; p. 929.
Uncoupling means. C. H. Tomlinson. No. 1,032,313; July 9; Gaz. vol. 180; p. 546.
Uncoupling mechanism. J. and W. Kelso. No. 1,032,066; July 9; Gaz. vol. 180; p. 402.
Underframe. V. M. Summa. No. 1,021,115; Mar. 26; Sp. p. 4463; Gaz. vol. 176; p. 826.
Underframe. J. M. Rohlfing. No. 1,021,215; Mar. 26; Sp. p. 4685; Gaz. vol. 176; p. 858.
Undergarment. A. F. Browning. No. 1,034,071; July 30; Gaz. vol. 180; p. 1251.
Undergarment. A. A. H. McAllister. No. 1,038,620; Sept. 17; Gaz. vol. 182; p. 555.
Undergarment, Lady's. H. Eshborn. No. 1,033,235; July 23; Gaz. vol. 180; p. 943.
Undergarment, Union. A. J. Harwood. No. 1,040,319; Oct. 8; Gaz. vol. 183; p. 248.
Undergarment, Union. E. J. Schremp. No. 1,043,035; Oct. 29; Gaz. vol. 183; p. 1279.
Underreamer. G. E. Squire. No. 1,017,333; Feb. 13; Sp. p. 2443; Gaz. vol. 175; p. 415.
Underreamer. L. Fitzgerald. No. 1,017,743; Feb. 20; Sp. p. 3295; Gaz. vol. 175; p. 590.
Underreamer. A. P. McBride. No. 1,025,413; May 7; Sp. p. 671; Gaz. vol. 178; p. 106.
Underreamer. J. M. Delmore. No. 1,031,628; July 2; Gaz. vol. 180; p. 270.
Underreamer. C. E. Frederickson. No. 1,036,520; Aug. 20; Gaz. vol. 181; p. 790.
Underreamer. W. Wagner. No. 1,038,243; Sept. 10; Gaz. vol. 182; p. 390.
Underreamer. W. M. Keck. No. 1,040,348; Oct. 8; Gaz. vol. 183; p. 257.
Underreamer. J. C. Siegrist. No. 1,044,274; Nov. 12; Gaz. vol. 184; p. 460.
Underreamer. C. E. Frederickson. No. 1,045,274; Nov. 26; Gaz. vol. 184; p. 865.
Undershirt and suspensory, Combined. T. S. Harper. No. 1,016,625; Feb. 6; Sp. p. 916; Gaz. vol. 175; p. 137.
Underwear, Lady's. B. Bennett. No. 1,029,583; June 18; Sp. p. 3278; Gaz. vol. 179; p. 584.
Undulator. J. A. Ward. No. 1,026,481; May 14; Sp. p. 3072; Gaz. vol. 178; p. 506.
Unicycle. C. T. Coates. No. 1,046,267; Dec. 3; Gaz. vol. 185; p. 163.
Union suit. W. S. Elder. No. 1,019,710; Mar. 5; Sp. p. 1523; Gaz. vol. 176; p. 236.
Unit, Spring. J. H. Smith. No. 1,037,556; Sept. 3; Gaz. vol. 182; p. 128.
Unitary screen, Folding. I. E. Palmer. No. 1,023,094; Apr. 9; Sp. p. 2851; Gaz. vol. 177; p. 485.
Uniting materials. C. F. Heinkel and J. Muth. No. 1,043,831; Nov. 12; Gaz. vol. 184; p. 307.
Uniting objects. L. H. Baekeland. No. 1,019,407; Mar. 5; Sp. p. 944; Gaz. vol. 176; p. 138.
Universal coupling. A. B. Dräger. No. 1,033,681; July 23; Gaz. vol. 180; p. 1088.
Universal joint. R. Huff. No. 1,015,267; Jan. 16; Sp. p. 4793; Gaz. vol. 174; p. 807.
Universal joint. F. E. Bocorselski. No. 1,020,476; Mar. 19; Sp. p. 3107; Gaz. vol. 176; p. 560.
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Universal joint and four-wheel drive. J. L. Yeoman. No. 1,038,706; Sept. 17; Gaz. vol. 182; p. 585.
Universal joint for grinding-mills. E. C. Griffin. No. 1,048,307; Dec. 24; Gaz. vol. 185; p. 966.
Universal separator. W. D. Nash. No. 1,045,592; Nov. 26; Gaz. vol. 184; p. 978.
Unloading apparatus. J. M. Garner. No. 1,014,870; Jan. 16; Sp. p. 3981; Gaz. vol. 174; p. 673.
Unloading-rack. F. M. Rice. No. 1,015,074; Jan. 16; Sp. p. 4413; Gaz. vol. 174; p. 742.
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Upholstering-machine. G. S. Price. No. 1,028,779; June 4; Sp. p. 1531; Gaz. vol. 179; p. 238.
Upholstering-machine. G. B. Brink. No. 1,042,642; Oct. 29; Gaz. vol. 183; p. 1135.
Upholstering springwork. E. M. Hulse. No. 1,037,256; Sept. 3; Gaz. vol. 182; p. 27.
Upholstery, Detachable fastener for. W. S. Foster. No. 1,020,407; Mar. 19; Sp. p. 2962; Gaz. vol. 176; p. 538.
Upholstery-spring-attaching device. J. A. Davis. No. 1,039,908; Oct. 1; Gaz. vol. 183; p. 80.
Urea, Manufacturing. H. Immendorff and H. Kappen. No. 1,048,699; Dec. 31; Gaz. vol. 185; p. 1141.
Urethroscope. F. Cerbo. No. 1,044,348; Nov. 12; Gaz. vol. 184; p. 485.
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Urinal. H. B. Northrop. No. 1,015,905; Jan. 30; Sp. p. 6193; Gaz. vol. 174; p. 1080.
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Urn, Chocolate-. L. L. Rowe. No. 1,032,507; July 16; Gaz. vol. 180; p. 656.
Urn, Coffee-. C. Rosa. No. 1,014,610; Jan. 9; Sp. p. 3328; Gaz. vol. 174; p. 552.
Urn, Coffee-. F. L. Landergren. No. 1,037,269; Sept. 3; Gaz. vol. 182; p. 31.
Urn, Coffee and tea. A. F. Moneuse. No. 1,015,058; Jan. 16; Sp. p. 4387; Gaz. vol. 174; p. 736.
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Utensil cleaning and greasing machine. C. Vollmer. No. 1,029,733; June 18; Sp. p. 3624; Gaz. vol. 179; p. 639.
Utensil-handle. D. B. Stevenson. No. 1,022,978; Apr. 9; Sp. p. 2617; Gaz. vol. 177; p. 445.
Utensil-handle and attaching means therefor. G. Walker. No. 1,031,495; July 2; Gaz. vol. 180; p. 226.
Utensil-handle and lid-lifter, Combined. J. D. Sampley. No. 1,044,253; Nov. 12; Gaz. vol. 184; p. 453.
Uterine supporter. E. F. Shaulis. No. 1,019,373; Mar. 5; Sp. p. 853; Gaz. vol. 176; p. 127.
Uterine tube, Self-retaining. R. Jentzsch. No. 1,039,061; Sept. 17; Gaz. vol. 182; p. 703.
Vacuum apparatus. L. W. G. Flynt. No. 1,029,746; June 18; Sp. p. 3647; Gaz. vol. 179; p. 643.
Vacuum apparatus. E. Weintraub. No. 1,037,379; Sept. 3; Gaz. vol. 182; p. 68.
Vacuum apparatus. A. Wender. No. 1,044,610; Nov. 19; Gaz. vol. 184; p. 607.
Vacuum apparatus, condensers, &c., Means for removing air and non-condensed steam from. E. Josse and W. Gensecke. No. 1,046,303; Dec. 3; Gaz. vol. 185; p. 176.
Vacuum apparatus, Means for evacuating. E. Josse and W. Gensecke. No. 1,046,304; Dec. 3; Gaz. vol. 185; p. 176.
Vacuum-cleaner. C. A. Dillon. (Reissue.) No. 13,352; Jan. 9; Sp. p. 3410; Gaz. vol. 174; p. 563.
Vacuum-cleaner. S. L. Rubel. No. 1,014,776; Jan. 16; Sp. p. 3757; Gaz. vol. 174; p. 639.
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Vacuum-cleaner. E. W. Applegate. No. 1,016,600; Feb. 6; Sp. p. 846; Gaz. vol. 175; p. 127.
Vacuum-cleaner. M. D. Hadjispiridis. No. 1,019,633; Mar. 5; Sp. p. 1387; Gaz. vol. 176; p. 212.
Vacuum-cleaner. W. H. Rakestraw. No. 1,020,310; Mar. 12; Sp. p. 2759; Gaz. vol. 176; p. 468.
Vacuum-cleaner. J. J. Duffie. No. 1,021,667; Mar. 26; Sp. p. 5635; Gaz. vol. 176; p. 1014.
Vacuum-cleaner. D. J. Cogdill. No. 1,025,864; May 7; Sp. p. 1658; Gaz. vol. 178; p. 261.
Vacuum-cleaner. W. T. Smith. No. 1,026,371; May 14; Sp. p. 2838; Gaz. vol. 178; p. 470.
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Vacuum-cleaner. W. R. Fowler. No. 1,027,117; May 21; Sp. p. 4532; Gaz. vol. 178; p. 762.
Vacuum-cleaner. C. De Mattia. No. 1,029,916; June 18; Sp. p. 4045; Gaz. vol. 179; p. 702.
Vacuum-cleaner. C. A. Lindberg. No. 1,037,027; Aug. 27; Gaz. vol. 181; p. 993.
Vacuum-cleaner. E. B. Symons. No. 1,037,368; Sept. 3; Gaz. vol. 182; p. 64.
Vacuum-cleaner. G. Maitland. No. 1,038,167; Sept. 10; Gaz. vol. 182; p. 364.
Vacuum-cleaner. J. Theisen. No. 1,042,055; Oct. 22; Gaz. vol. 183; p. 906.
Vacuum-cleaner. E. M. Barnes. No. 1,045,931; Dec. 3; Gaz. vol. 185; p. 46.
Vacuum-cleaner. F. S. Cramer. No. 1,045,950; Dec. 3; Gaz. vol. 185; p. 53.
Vacuum-cleaner. J. Vogelzangs and F. E. Morgan. No. 1,048,009; Dec. 24; Gaz. vol. 185; p. 865.
Vacuum-cleaner, Hand-operated. F. B. Buell. No. 1,034,342; July 30; Gaz. vol. 180; p. 1344.
Vacuum-cleaner tool. S. C. Ball. No. 1,038,517; Sept. 17; Gaz. vol. 182; p. 519.
Vacuum-cleaners, Dust-collector for. F. S. R. Prentiss. No. 1,029,562; June 11; Sp. p. 3235; Gaz. vol. 179; p. 542.
Vacuum-cleaners, Dust separator and filtering mechanism for. T. Wiedemann and J. H. Templin. No. 1,044,613; Nov. 19; Gaz. vol. 184; p. 607.
Vacuum-cleaners, Induced suction for. J. and W. Birrell. No. 1,023,359; Apr. 16; Sp. p. 3434; Gaz. vol. 177; p. 613.
Vacuum-cleaners, Pneumatic pumping apparatus for. J. W. Smith. No. 1,031,151; July 2; Gaz. vol. 180; p. 107.
Vacuum-cleaners, Sound-deadening casing for. J. W. Smith. No. 1,030,933; July 2; Gaz. vol. 180; p. 28.
Vacuum-cleaners, Tool for. L. Brandt. No. 1,035,852; Aug. 20; Gaz. vol. 181; p. 558.
Vacuum cleaning apparatus. L. W. G. Flynt. No. 1,013,147; Jan. 2; Sp. p. 112; Gaz. vol. 174; p. 20.
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Vacuum cleaning device for cleaning animals. J. J. Slevin. No. 1,018,136; Feb. 20; Sp. p. 4237; Gaz. vol. 175; p. 728.
Vacuum cleaning devices, Electric switch attachment for. J. J. Slevin. No. 1,015,352; Jan. 23; Sp. p. 5000; Gaz. vol. 174; p. 863.
Vacuum cleaning system. F. W. Van Ness. No. 1,048,917; Dec. 31; Gaz. vol. 185; p. 1214.
Vacuum cleaning systems, Valve for. C. R. Thurman. No. 1,037,083; Aug. 27; Gaz. vol. 181; p. 1011.
Vacuum conduit systems, Arrangement for inclosing. C. W. Nichols. No. 1,026,406; May 14; Sp. p. 2914; Gaz. vol. 178; p. 482.
Vacuum-creating apparatus. M. F. Coyle. No. 1,040,641; Oct. 8; Gaz. vol. 183; p. 363.
Vacuum-creator. F. B. Saunders. No. 1,017,691; Feb. 20; Sp. p. 3178; Gaz. vol. 175; p. 572.
Vacuum-insulated vessels, Stopper for. H. Klett. No. 1,019,660; Mar. 5; Sp. p. 1434; Gaz. vol. 176; p. 221.
Vacuum-pan sampler. C. A. Baumann. No. 1,041,725; Oct. 22; Gaz. vol. 183; p. 792.
Vacuum-pan separator. G. M. Newhall. No. 1,015,629; Jan. 23; Sp. p. 5596; Gaz. vol. 174; p. 959.
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Vacuum-producer. H. A. Jeffery. No. 1,035,880; Aug. 20; Gaz. vol. 181; p. 568.
Vacuum-producer. W. L. King. No. 1,041,634; Oct. 15; Gaz. vol. 183; p. 725.
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Vacuum-producer, Injector. F. Kenney. No. 1,046,603; Dec. 10; Gaz. vol. 185; p. 319.
Vacuum-producing apparatus. J. F. Menningen. No. 1,013,200; Jan. 2; Sp. p. 225; Gaz. vol. 174; p. 38.
Vacuum-receptacles, Machine for the manufacture of. W. R. Burrows. No. 1,048,456; Dec. 24; Gaz. vol. 185; p. 1016.
Vacuum-recorder. G. C. Vennum. No. 1,041,382; Oct. 15; Gaz. vol. 183; p. 643.
Vacuum service-inlets, Closure for. F. J. Matchette. No. 1,021,203; Mar. 26; Sp. p. 4659; Gaz. vol. 176; p. 854.
Vacuum supporting device. R. Hazelrigg. No. 1,026,263; May 14; Sp. p. 2586; Gaz. vol. 178; p. 433.
Vacuum-sweeper. F. J. Matchette. No. 1,020,104; Mar. 12; Sp. p. 2340; Gaz. vol. 176; p. 400.
Vacuum-trap. J. A. Bemish. No. 1,013,730; Jan. 2; Sp. p. 1413; Gaz. vol. 174; p. 222.
Vacuum-tube, Electrically-operated. D. M. Moore. No. 1,020,109; Mar. 12; Sp. p. 2353; Gaz. vol. 176; p. 403.
Vacuum-tube lighting. D. M. Moore. No. 1,032,927; July 16; Gaz. vol. 180; p. 799.
Valance. R. C. Schemmel. No. 1,021,487; Mar. 26; Sp. p. 5296; Gaz. vol. 176; p. 955.
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Valve. C. F. Jenkins. No. 1,047,531; Dec. 17; Gaz. vol. 185; p. 673.
Valve. C. N. Allerding. No. 1,048,635; Dec. 31; Gaz. vol. 185; p. 1116.
Valve. E. Falcke. No. 1,048,816; Dec. 31; Gaz. vol. 185; p. 1181.
Valve. J. J. Staley. No. 1,048,906; Dec. 31; Gaz. vol. 185; p. 1211.
Valve. I. E. Mercer. No. 1,049,123; Dec. 31; Gaz. vol. 185; p. 1287.

Alphabetical list of inventions—Continued.

Valve. G. Savino. No. 1,049,153; Dec. 31; Gaz. vol. 185; p. 1296.
Valve-action, Pneumatic. F. L. Yetts. No. 1,013,259; Jan. 2; Sp. p. 368; Gaz. vol. 174; p. 59.
Valve, Air-. A. Hottenroth. No. 1,045,404; Nov. 26; Gaz. vol. 184; p. 910.
Valve, Air-. C. A. Dunham. No. 1,048,508; Dec. 31; Gaz. vol. 185; p. 1073.
Valve, Air and gas mixing. H. A. Raitz. No. 1,043,970; Nov. 12; Gaz. vol. 184; p. 357.
Valve, Air-brake. J. B. Knudsen. No. 1,037,929; Sept. 10; Gaz. vol. 182; p. 286.
Valve, Air-coupling. F. Knack. No. 1,022,851; Apr. 9; Sp. p. 2354; Gaz. vol. 177; p. 402.
Valve, Alarm-. H. P. Tank. No. 1,019,200; Mar. 5; Sp. p. 430; Gaz. vol. 176; p. 68.
Valve, Alarm-. H. Vissering. No. 1,022,613; Apr. 9; Sp. p. 1820; Gaz. vol. 177; p. 319.
Valve, Alarm-. P. Carpenter. No. 1,023,104; Apr. 9; Sp. p. 2871; Gaz. vol. 177; p. 489.
Valve, Ammonia stop-. F. N. Roehrich. No. 1,045,187; Nov. 26; Gaz. vol. 184; p. 834.
Valve and governing the speed of engines, Combined means of operating the throttle-. G. W. Seaman. No. 1,032,434; July 16; Gaz. vol. 180; p. 632.
Valve and horn. W. H. Eynon. No. 1,047,019; Dec. 10; Gaz. vol. 185; p. 461.
Valve and mechanism therefor, Automatically-operable pressure-regulating. C. E. Hasty. No. 1,026,262; May 14; Sp. p. 2583; Gaz. vol. 178; p. 433.
Valve and starter, Compound. C. C. Roth. No. 1,040,766; Oct. 8; Gaz. vol. 183; p. 404.
Valve and valve-gear. W. L. Crouch. No. 1,038,533; Sept. 17; Gaz. vol. 182; p. 524.
Valve and water-meter, Combined. U. Magni. No. 1,045,865; Dec. 3; Gaz. vol. 185; p. 24.
Valve, Antiscalding-. R. H. Bryon. No. 1,013,640; Jan. 2; Sp. p. 1195; Gaz. vol. 174; p. 190.
Valve apparatus, Hydraulic-. E. S. Matthews. No. 1,032,339; July 9; Gaz. vol. 180; p. 555.
Valve attachment for internal-combustion engines, Whistle-. R. C. Adams. No. 1,016,725; Feb. 6; Sp. p. 1113; Gaz. vol. 175; p. 171.
Valve, Automatic. B. S. Aikman. No. 1,026,620; May 14; Sp. p. 3347; Gaz. vol. 178; p. 552.
Valve, Automatic. E. E. Graham. No. 1,027,839; May 28; Sp. p. 6003; Gaz. vol. 178; p. 1042.
Valve, Automatic. G. Dalén. No. 1,041,748; Oct. 22; Gaz. vol. 183; p. 800.
Valve, Automatic choke-. C. Y. Hood and J. Chalmers. No. 1,017,415; Feb. 13; Sp. p. 2624; Gaz. vol. 175; p. 443.
Valve, Automatic cut-off. P. Karamees. No. 1,042,557; Oct. 29; Gaz. vol. 183; p. 1104.
Valve, Automatic expansion-. J. L. Vidar. No. 1,044,106; Nov. 12; Gaz. vol. 184; p. 403.
Valve, Automatic gas and drain. S. I. Shand. No. 1,016,100; Jan. 30; Sp. p. 6613; Gaz. vol. 174; p. 1149.
Valve, Automatic gas-shut-off. W. Proffitt and G. H. Brooks. No. 1,034,298; July 30; Gaz. vol. 180; p. 1329.
Valve, Automatic high-pressure-reducing. J. C. Hooper. No. 1,036,244; Aug. 20; Gaz. vol. 181; p. 696.
Valve, Automatic inlet-. S. C. Cornett and A. D. Davenport. No. 1,019,603; Mar. 5; Sp. p. 1331; Gaz. vol. 176; p. 201.
Valve, Automatic mixing-. T. L. Thomlinson and I. O. Crosscup. No. 1,037,135; Aug. 27; Gaz. vol. 181; p. 1028.
Valve, Automatic plate-. R. Meyer. No. 1,019,683; Mar. 5; Sp. p. 1478; Gaz. vol. 176; p. 228.
Valve, Automatic relief-. C. E. Miser. No. 1,019,511; Mar. 5; Sp. p. 1163; Gaz. vol. 176; p. 172.
Valve, Automatic safety-. C. A. Moore. No. 1,032,849; July 16; Gaz. vol. 180; p. 774.
Valve, Automatic sprinkler-. L. A. Grimes. No. 1,045,701; Nov. 26; Gaz. vol. 184; p. 1017.
Valve-bags, Machine for filling. A. M. Bates. No. 1,044,475; Nov. 19; Gaz. vol. 184; p. 559.
Valve, Balanced. W. F. Gould. No. 1,014,591; Jan. 9; Sp. p. 3262; Gaz. vol. 174; p. 544.
Valve, Balanced. W. F. Gould. No. 1,014,592; Jan. 9; Sp. p. 3267; Gaz vol. 174; p 545.
Valve, Ball-cock. G. W. Luce and G. C. Van Dyke. No. 1,044,403; Nov. 12; Gaz. vol. 184; p. 504.
Valve, Ball-cock. E. W. and C. V. Webster. No. 1,047,596; Dec. 17; Gaz. vol. 185; p. 697.
Valve, Blow-off. P. H. Murphy. No. 1,013,426; Jan. 2; Sp. p. 744; Gaz. vol. 174; p. 117.
Valve, Blow-off. T. M. Eynon and J. V. Schmid. No. 1,047,774; Dec. 17; Gaz. vol. 185; p. 759.
Valve, Blower-. W. T. Peck. No. 1,018,847; Feb. 27; Sp. p. 5804; Gaz. vol. 175; p. 1002.
Valve body, Flush-. L. S. Rothwell. No. 1,014,259; Jan. 9; Sp. p. 2602; Gaz. vol. 174; p. 434.
Valve, Bottom blow-. J. W. Lytton. No. 1,014,766; Jan. 16; Sp. p. 3732; Gaz. vol. 174; p. 636.
Valve, Bucket-. W. L. Deming. No. 1,044,149; Nov. 12; Gaz. vol. 184; p. 416.
Valve, Check-. A. Jensen. No. 1,029,931; June 18; Sp. p. 4075; Gaz. vol. 179; p. 708.
Valve, Check-. F. J. Bardo. No. 1,038,518; Sept. 17; Gaz. vol. 182; p. 519.
Valve, Check-. A. M. Ingram. No. 1,039,749; Oct. 1; Gaz. vol. 183; p. 27.
Valve, Check or safety. A. E. Bossé. No. 1,021,758; Apr. 2; Sp. p. 7; Gaz. vol. 177; p. 4.
Valve, Closet-tank. H. N. Libbey. No. 1,021,367; Mar. 26; Sp. p. 4997; Gaz. vol. 176; p. 912.
Valve-closing means. W. U. Griffiths. No. 1,048,825; Dec. 31; Gaz. vol. 185; p. 1184.
Valve, Combination gate and by-pass. A. Price. No. 1,020,159; Mar. 12; Sp. p. 2459; Gaz. vol. 176; p. 418.
Valve, Combined check and stop. E. S. Beck. No. 1,019,590; Mar. 5; Sp. p. 1307; Gaz. vol. 176; p. 196.
Valve, Combined emergency and throttle. J. G. Callan. No. 1,017,619; Feb. 13; Sp. p. 3021; Gaz. vol. 175; p. 511.
Valve, Combined emergency and throttle. L. Cubelic. No. 1,020,685; Mar. 19; Sp. p. 3572; Gaz. vol. 176; p. 629.
Valve, Combined hot and cold water. J. F. Murphy. No. 1,017,789; Feb. 20; Sp. p. 3450; Gaz. vol. 175; p. 607.
Valve, Combined throttle and emergency. W. Johnson. No 1,041,478; Oct. 15; Gaz. vol. 183; p. 675.
Valve, Combined throttle and reversing. A. Hackett. No. 1,018,047; Feb. 20; Sp. p. 4033; Gaz. vol. 175; p. 697.
Valve construction, Engine-. H. E. Coffin. No. 1,032,466; July 16; Gaz. vol. 180; p. 642.
Valve control. W. Marden. No. 1,048,329; Dec. 24; Gaz. vol. 185; p. 973.
Valve-controlling device for vehicles, Brake-. R. T. and F. T. Jones. No. 1,046,391; Dec. 3; Gaz. vol. 185; p. 207.
Valve-controlling mechanism, Thermostatic. N. Wise. No. 1,030,367; June 25; Sp. p. 5030; Gaz. vol. 179; p. 897.
Valve, Converter-. P. E. Gannon. No. 1,034,995; Aug. 6; Gaz. vol. 181; p. 198.
Valve device, Automatic pressure-controlling. J. W. Dawson. No. 1,047,506; Dec. 17; Gaz. vol. 185; p. 664.
Valve device, Brake-. W. V. Turner. No. 1,039,222; Sept. 24; Gaz. vol. 182; p. 778.
Valve device, Engineer's brake-. W. V. Turner. No. 1,016,186; Jan. 30; Sp. p. 6760; Gaz. vol. 174; p. 1176.
Valve device, Engineer's brake-. W. V. Turner. (Reissue.) No. 13,402; Apr. 9; Sp. p. 2918; Gaz. vol. 177; p. 497.
Valve device for steam-engines, By-pass and relief. T. H. Haberkorn. No. 1,039,523; Sept. 24; Gaz. vol. 182; p. 884.
Valve device, Quick-action triple-. W. V. Turner. No. 1,031,211; July 2; Gaz. vol. 180; p. 128.
Valve device, Retaining-. M. V. Turner. No. 1,025,341; May 7; Sp. p. 519; Gaz. vol. 178; p. 81.
Valve, Diaphragm-. M. Mintz. No. 1,035,803; Aug. 13; Gaz. vol. 181; p. 503.
Valve, Discharge-. W. F. Blake. No. 1,015,754; Jan. 23; Sp. p. 5867; Gaz. vol. 174; p. 1000.
Valve, Discharge-. C. G. Sprado. No. 1,029,726; June 18; Sp. p. 3608; Gaz. vol. 179; p. 636.
Valve, Disk. J. Rothchild and H. S. Conover. No. 1,014,775; Jan. 16; Sp. p. 3754; Gaz. vol. 174; p. 639.
Valve, Distributing-. O. E. Nilsen. No. 1,030,604; June 25; Sp. p. 5670; Gaz. vol. 179; p. 982.
Valve, Double-acting steam-. W. Langer. No 1,036,274; Aug. 20; Gaz. vol. 181; p. 706.
Valve, Drain-. T. M. House. No. 1,032,352; July 9; Gaz. vol. 180; p. 561.
Valve-drive for steam-engines, Independent inside. R. Eaton and G. L. Keith. No. 1,039,037; Sept. 17; Gaz. vol. 182; p. 696.
Valve, Dry pipe-. G. I. Rockwood. No. 1,033,471; July 23; Gaz. vol. 180; p. 1020.
Valve, Electrically-operated. G. W. Collin. No. 1,033,542; July 23; Gaz. vol. 180; p. 1043.
Valve, Engine-. R. Wintzer. No. 1,021,438; Mar. 26; Sp. p. 5187; Gaz. vol. 176; p. 938.
Valve, Engineer's. W. H. Lieber. No. 1,030,193; June 18; Sp. p. 4616; Gaz. vol. 179; p. 795.
Valve, Engineer's. H. W. Cheney. No. 1,030,229; June 18; Sp. p. 4698; Gaz. vol. 179; p. 808.
Valve, Explosion-engine rotary. H. E. Coffin and G. G. Behn. No. 1,034,877; Aug. 6; Gaz. vol. 181; p. 161.
Valve, Explosive-engine. W. C. Elrod. No. 1,047,015; Dec. 10; Gaz. vol. 185; p. 459.
Valve, Flap-. C. N. Scott. No. 1,022,157; Apr. 2; Sp. p. 860; Gaz. vol. 177; p. 136.
Valve, Float-. W. E. Snaman. No. 1,018,937; Feb. 27; Sp. p. 5991; Gaz. vol. 175; p. 1033.
Valve, Float-. E. A. and C. C. Biller. No. 1,027,980; May 28; Sp. p. 6348; Gaz. vol. 178; p. 1089.
Valve, Float-. W. Stock. No. 1,032,308; July 9; Gaz. vol. 180; p. 545.
Valve, Float-. F. G. Wangelin. No. 1,032,521; July 16; Gaz. vol. 180; p. 661.
Valve, Float-. R. H. Canfield. No. 1,040,141; Oct. 1; Gaz. vol. 183; p. 158.
Valve, Float-. F. B. Charroin. No. 1,041,025; Oct. 15; Gaz. vol. 183; p. 523.
Valve, Float-controlled. J. F. Young. No. 1,027,965; May 28; Sp. p. 6311; Gaz. vol. 178; p. 1084.

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Valve, Float-operated. J. W. Wall. No. 1,044,311; Nov. 12; Gaz. vol. 184; p. 472.
Valve, Float-operated. J. W. Wall. No. 1,047,863; Dec. 17; Gaz. vol. 185; p. 790.
Valve, Fluid-pressure. E. P. Noyes. No. 1,013,213; Jan. 2; Sp. p. 257; Gaz. vol. 174; p. 43.
Valve, Fluid-pressure. F. S. Denneen and J. R. Brown. No. 1,032,470; July 16; Gaz. vol. 180; p. 644.
Valve, Flush-. F. B. Charroin. No. 1,014,637; Jan. 16; Sp. p. 3451; Gaz. vol. 174; p. 593.
Valve, Flush-. A. N. Pasman. No. 1,035,898; Aug. 20; Gaz. vol. 181; p. 575.
Valve, Flush-. E. J. Bloom. No. 1,046,548; Dec. 10; Gaz. vol. 185; p. 300.
Valve, Flusher-. G. W. Collin. No. 1,027,819; May 28; Sp. p. 5962; Gaz. vol. 178; p. 1034.
Valve, Flushing-. S. W. Lewis. No. 1,014,072; Jan. 9; Sp. p. 2199; Gaz. vol. 174; p. 368.
Valve, Flushing-. W. A. Hunter, Jr., and F. W. Bassett. No. 1,025,092; Apr. 30; Sp. p. 7188; Gaz. vol. 177; p. 1259.
Valve, Flushing-. G. W. Collin. No. 1,027,818; May 28; Sp. p. 5958; Gaz. vol. 178; p. 1034.
Valve, Flushing-. T. F. Payne. No. 1,034,826; Aug. 6; Gaz. vol. 181; p. 143.
Valve, Flushing-. S. C. Laidley. No. 1,042,568; Oct. 29; Gaz. vol. 183; p. 1107.
Valve, Flushing-. G. A. Brown. No. 1,044,439; Nov. 12; Gaz. vol. 184; p. 516.
Valve, Flushing-. T. F. Payne. No. 1,048,866; Dec. 31; Gaz. vol. 185; p. 1197.
Valve, Flushing-. T. F. Payne. No. 1,048,867; Dec. 31; Gaz. vol. 185; p. 1198.
Valve for air-brakes, Exhaust-control. W. V. Turner. No. 1,027,937; May 28; Sp. p. 6257; Gaz. vol. 178; p. 1075.
Valve for air-motors, Slide-. W. F. Cooper and E. P. Chase. No. 1,028,862; June 11; Sp. p. 1713; Gaz. vol. 179; p. 300.
Valve for automobile-tires, &c. F. A. Gilcrest. No. 1,048,955; Dec. 31; Gaz. vol. 185; p. 1228.
Valve for carbureters, Air-. L. Anderson. No. 1,035,938; Aug. 20; Gaz. vol. 181; p. 587.
Valve for carbureters, Auxiliary air-. A. C. Stewart. No. 1,026,533; May 14; Sp. p. 3171; Gaz. vol. 178; p. 524.
Valve for carbureters, Throttle-. M. Weiwoda. No. 1,020,379; Mar. 12; Sp. p. 2890; Gaz. vol. 176; p. 490.
Valve for combustible liquids, Controlling-. D. M. Heyman. No. 1,049,301; Dec. 31; Gaz. vol. 185; p. 1346.
Valve for compressors, Inlet-. H. D. Murray. No. 1,029,025; June 11; Sp. p. 2084; Gaz. vol. 179; p. 359.
Valve for corrosive liquids. J. F. Jennings. No. 1,021,681; Mar. 26; Sp. p. 5656; Gaz. vol. 176; p. 1018.
Valve for door-checks. M. Peterson. No. 1,018,265; Feb. 20; Sp. p. 4499; Gaz. vol. 175; p. 773.
Valve for engines. E. H. Allfree. No. 1,032,039; July 9; Gaz. vol. 180; p. 453.
Valve for engines, &c., Rotary. A. E. Moorhead. No. 1,042,712; Oct. 29; Gaz. vol. 183; p. 1159.
Valve for explosion-engines. A. C. Krebs. No. 1,019,488; Mar. 5; Sp. p. 1122; Gaz. vol. 176; p. 164.
Valve for explosive-engines, Gas-mixing. A. Decker. No. 1,046,141; Dec. 3; Gaz. vol. 185; p. 118.
Valve for fluid-holding receptacles, Discharging-. M. Mauran. No. 1,027,136; May 21; Sp. p. 4569; Gaz. vol. 178; p. 768.
Valve for fluid-hydrocarbon burners, Automatic cut-off. E. F. Debley. No. 1,038,097; Sept. 10; Gaz. vol. 182; p. 342.
Valve for flushing-tanks, Ball-. W. Loser. No. 1,041,824; Oct. 22; Gaz. vol. 183; p. 829.
Valve for flushing-tanks, Siphon-. J. J. Meyer. No. 1,042,365; Oct. 22; Gaz. vol. 183; p. 1007.
Valve for gas-engines, Sectional. L. W. Brenner. No. 1,020,535; Mar. 19; Sp. p. 3239; Gaz. vol. 176; p. 579.
Valve for gas-lighting systems for automobiles. A. Lutenegger. No. 1,040,712; Oct. 8; Gaz. vol. 183; p. 387.
Valve for gas-ranges. C. H. Miller. No. 1,040,376; Oct. 8; Gaz. vol. 183; p. 266.
Valve for hot-water-circulating systems, Pressure controlling and relief. G. L. Bottum. No. 1,042,387; Oct. 29; Gaz. vol. 183; p. 1043.
Valve for hot-water heating systems. L. A. Parre. No. 1,044,234; Nov. 12; Gaz. vol. 184; p. 446.
Valve for house water-supply systems, Pressure-operated controlling. R. H. Nelson. No. 1,022,327; Apr. 2; Sp. p. 1206; Gaz. vol. 177; p. 192.
Valve for hydraulic presses, Automatic pressure-controlling. W. P. Bettendorf. No. 1,046,949; Dec. 10; Gaz. vol. 185; p. 439.
Valve for impact molding-machines. C. M. Henderson. No. 1,048,692; Dec. 31; Gaz. vol. 185; p. 1138.
Valve for inflammable gases, Automatic check-. H. B. Migliavacca. No. 1,030,911; July 2; Gaz. vol. 180; p. 20.
Valve for injectors, Intake-. M. G. Fries. No. 1,047,195; Dec. 17; Gaz. vol. 185; p. 553.
Valve for intermingling and controlling fluids. A. W. Weeden. No. 1,016,382; Feb. 6; Sp. p. 319; Gaz. vol. 175; p. 50.
Valve for internal-combustion engines. W. Henry. No. 1,034,707; Aug. 6; Gaz. vol. 181; p. 102.
Valve for internal-combustion engines. W. Henry. No. 1,034,708; Aug. 6; Gaz. vol. 181; p. 102.
Valve for internal-combustion engines, Fuel-admission. A. B. Breuer. No. 1,042,076; Oct. 22; Gaz. vol. 183; p. 913.
Valve for internal-combustion engines, Rotary. E. P. Du Pont. No. 1,038,319; Sept. 10; Gaz. vol. 182; p. 416.
Valve for internal-combustion engines, Rotary. H. O. Witwer. No. 1,048,020; Dec. 24; Gaz. vol. 185; p. 869.
Valve for locomotives, Relief-. J. McCluskey. No. 1,045,307; Nov. 26; Gaz. vol. 184; p. 876.
Valve for multiple-cylinder engines, Rotary. G. B. Bowen. No. 1,041,957; Oct. 22; Gaz. vol. 183; p. 873.
Valve for pneumatic actions. L. B. Doman. No. 1,017,857; Feb. 20; Sp. p. 3593; Gaz. vol. 175; p. 630.
Valve for pneumatic cleaning systems, Relief-. M. S. Wright. No. 1,026,193; May 14; Sp. p. 2439; Gaz. vol. 178; p. 409.
Valve for radiators, Air-. F. W. Leuthesser. No. 1,042,012; Oct. 22; Gaz. vol. 183; p. 892.
Valve for radiators, Air-. F. W. Leuthesser. No. 1,049,243; Dec. 31; Gaz. vol. 185; p. 1325.
Valve for regenerative furnaces, Reversing-. H. Gille. No. 1,033,577; July 23; Gaz. vol. 180; p. 1055.
Valve for rock-drilling engines, Air-controlling. J. G. Leyner. No. 1,039,972; Oct. 1; Gaz. vol. 183; p. 100.
Valve for rotary gas-engines. W. S. Thompson. No. 1,038,462; Sept. 10; Gaz. vol. 182; p. 467.
Valve for steam-boilers, Blow-off. J. F. Schiller. No. 1,044,259; Nov. 12; Gaz. vol. 184; p. 455.
Valve for steam-cylinders, Automatic drain-. F. W. Walraven. No. 1,020,861; Mar. 19; Sp. p. 3963; Gaz. vol. 176; p. 690.
Valve for steam-engines, Distribution-. J. Stumpf. No. 1,044,828; Nov. 19; Gaz. vol. 184; p. 683.
Valve for steam-heating systems. E. E. Gold. No. 1,024,723; Apr. 30; Sp. p. 6430; Gaz. vol. 177; p. 1133.
Valve for steam-heating systems, Water and air relief. W. W. Morgan and J. L. Fitts. No. 1,041,144; Oct. 15; Gaz. vol. 183; p. 563.
Valve for steam-radiators, Air-. W. M. Fulton. No. 1,044,040; Nov. 12; Gaz. vol. 184; p. 380.
Valve for tanks, Air-. J. M. McDonald. No. 1,046,208; Dec. 3; Gaz. vol. 185; p. 141.
Valve for tanks, Float-. L. A. Cornelius. No. 1,041,746; Oct. 22; Gaz. vol. 183; p. 800.
Valve for turbines, Stage-. W. Kieser. No. 1,020,705; Mar. 19; Sp. p. 3626; Gaz. vol. 176; p. 637.
Valve for turbines, Throttle-. R. H. Rice. No. 1,021,213; Mar. 26; Sp. p. 4680; Gaz. vol. 176; p. 858.
Valve for vacuum-tubes, Gas-feed. D. M. Moore. No. 1,035,894; Aug. 20; Gaz. vol. 181; p. 573.
Valve for water-carts, Controlling-. W. Schorn. No. 1,026,608; May 14; Sp. p. 3318; Gaz. vol. 178; p. 548.
Valve for water distribution. T. G. Cooke. No. 1,021,303; Mar. 26; Sp. p. 4876; Gaz. vol. 176; p. 890.
Valve for water-heaters, Automatic. R. R. James. No. 1,024,263; Apr. 23; Sp. p. 5382; Gaz. vol. 177; p. 942.
Valve for water-heaters, Safety-. H. Eisenach and W. F. Smith. No. 1,045,007; Nov. 19; Gaz. vol. 184; p. 744.
Valve for water-tanks. H. L. Braly. No. 1,038,836; Sept. 17; Gaz. vol. 182; p. 632.
Valve for water, Thermostatic. J. J. Lawler. No. 1,024,729; Apr. 30; Sp. p. 6441; Gaz. vol. 177; p. 1135.
Valve, Furnace gas-. M. W. Johnson, Jr. No. 1,024,785; Apr. 30; Sp. p. 6565; Gaz. vol. 177; p. 1155.
Valve, Gas-. F. G. Nicolaus. No. 1,038,941; Sept. 17; Gaz. vol. 182; p. 667.
Valve, Gas-engine. W. E. Hallett. No. 1,038,878; Sept. 17; Gaz. vol. 182; p. 645.
Valve, Gas-engine. J. B. Meriam and H. L. Allen. No. 1,046,210; Dec. 3; Gaz. vol. 185; p. 142.
Valve, Gas-regulating. A. A. Vock. No. 1,042,850; Oct. 29; Gaz. vol. 183; p. 1206.
Valve-gasket. C. Scheelk. No. 1,033,201; July 23; Gaz. vol. 180; p. 931.
Valve, Gasolene spray or vaporizer. J. T. and G. Metcalfe. No. 1,034,273; July 30; Gaz. vol. 180; p. 1321.
Valve, Gate-. A. Watson. No. 1,016,461; Feb. 6; Sp. p. 514; Gaz. vol. 175; p. 79.
Valve, Gate-. W. H. Scott. No. 1,037,338; Sept. 3; Gaz. vol. 182; p. 53.
Valve, Gate-. H. E. Weitzel. No. 1,039,340; Sept. 24; Gaz. vol. 182; p. 820.
Valve-gear. T. Hall. No. 1,013,549; Jan. 2; Sp. p. 1000; Gaz. vol. 174; p. 160.
Valve-gear. J. H. Gentry. No. 1,015,308; Jan. 23; Sp. p. 4894; Gaz. vol 174; p. 847.
Valve-gear. O. A. Donath. No. 1,015,792; Jan. 30; Sp. p. 5951; Gaz. vol. 174; p. 1041.
Valve-gear. J. H. Gentry. No. 1,022,232; Apr. 2; Sp. p. 1023, Gaz. vol. 177; p. 163.
Valve-gear. E. Turner. No. 1,028,158; June 4; Sp. p. 179; Gaz. vol. 179; p. 27.
Valve-gear. E. J. Myers. No. 1,028,592; June 4; Sp. p. 1154; Gaz. vol. 179; p. 175.
Valve-gear. W. E. Johnston. No. 1,032,367; July 9; Gaz. vol. 180; p. 566.
Valve-gear. U. Ketterer. No. 1,034,121; July 30; Gaz. vol. 180; p. 1268.

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Valve-gear. A. J. Rowledge. No. 1,034,513; Aug. 6; Gaz. vol. 181; p. 38.
Valve-gear. G. T. Sigler. No. 1,045,085; Nov. 19; Gaz. vol. 184; p. 771.
Valve-gear. S. Rosenzweig. No. 1,047,300; Dec. 17; Gaz. vol. 185; p. 593.
Valve-gear. E. L. Robertson, I. L. Miller, and H. E. Sturdyvin. No. 1,047,896; Dec. 17; Gaz. vol. 185; p. 801.
Valve-gear. H. J. Glissman. No. 1,047,906; Dec. 17; Gaz. vol. 185; p. 805.
Valve-gear, Corliss. G. B. Petsche. No. 1,017,687; Feb. 20; Sp. p. 3170; Gaz. vol. 175; p. 571.
Valve-gear device. J. B. Kingan and H. F. Ripken. No. 1,023,520; Apr. 16; Sp. p. 3759; Gaz. vol. 177; p. 664.
Valve-gear, Engine. S. E. Beeler. No. 1,040,247; Oct. 1; Gaz. vol. 183; p. 193.
Valve-gear for engines. F. J. Wood. No. 1,018,688; Feb. 27; Sp. p. 5467; Gaz. vol. 175; p. 948.
Valve-gear for fluid-pressure motors, Governing. C. A. Dawley. No. 1,042,534; Oct. 29; Gaz. vol. 183; p. 1096.
Valve-gear for locomotive-engines. A. D. Baker. No. 1,036,057; Aug. 20; Gaz. vol. 181; p. 627.
Valve-gear for locomotives, Reversible variable-cut-off. A. D. Baker. No. 1,036,058; Aug. 20; Gaz. vol. 181; p. 628.
Valve-gear for power-hammers. J. Hamilton. No. 1,046,779; Dec. 10; Gaz. vol. 185; p. 382.
Valve-gear for steam-engines. N. Gray. No. 1,046,772; Dec. 10; Gaz. vol. 185; p. 381.
Valve-gear for steam-turbines. O. Banner. No. 1,029,786; June 18; Sp. p. 3727; Gaz. vol. 179; p. 656.
Valve-gear lead-controller. R. M. Wiggins. No. 1,025,175; May 7; Sp. p. 146; Gaz. vol. 178; p. 25.
Valve-gear, Locomotive. O. W. Young. No. 1,029,038; June 11; Sp. p. 2109; Gaz. vol. 179; p. 363.
Valve-gear, Locomotive. W. G. Landon. No. 1,047,420; Dec. 17; Gaz. vol. 185; p. 633.
Valve-gear of apparatus for conveying liquids or gases. R. Rüdenberg and F. Koehler. No. 1,047,708; Dec. 17; Gaz. vol. 185; p. 736.
Valve gear, Relief-. G. F. Edwards. No. 1,039,914; Oct. 1; Gaz. vol. 183; p. 81.
Valve-gear, Reversible variable-cut-off. A. D. Baker. No. 1,036,059; Aug. 20; Gaz. vol. 181; p. 628.
Valve-gear, Steam-engine. W. S. Brown. No. 1,033,532; July 23; Gaz. vol. 180; p. 1040.
Valve-gear, Steam-engine. J. Davidson and W. O. Larmuth. No. 1,033,676; July 23; Gaz. vol. 180; p. 1087.
Valve-gear stop for steam-engines. K. Smith. No. 1,033,039; July 16; Gaz. vol. 180; p. 836.
Valve, Globe-. W. Vial. No. 1,016,306; Feb. 6; Sp. p. 155; Gaz. vol. 175; p. 24.
Valve, Globe-. W. Stewart. No. 1,024,751; Apr. 30; Sp. p. 6494; Gaz. vol. 177; p. 1143.
Valve-grinder. N. E. Meredith. No. 1,015,902; Jan. 30; Sp. p. 6187; Gaz. vol. 174; p. 1079.
Valve grinding and fitting machine. S. S. Shields and W. E. Wine. No. 1,042,614; Oct. 29; Gaz. vol. 183; p. 1125.
Valve-grinding device. A. Okerson. No. 1,020,218; Mar. 12; Sp. p. 2589; Gaz. vol. 176; p. 439.
Valve-grinding machine, Portable. O. A. Olson. No. 1,035,996; Aug. 20; Gaz. vol. 181; p. 606.
Valve-grinding tool. J. Scheller. No. 1,023,967; Apr. 23; Sp. p. 4715; Gaz. vol. 177; p. 836.
Valve-handle signal and lock-spring, Shut-off-. R. B. Johnston. No. 1,040,343; Oct. 8; Gaz. vol. 183; p. 256.
Valve head-gate. W. F. Garbe. No. 1,020,974; Mar. 26; Sp. p. 4191; Gaz. vol. 176; p. 779.
Valve, High-pressure regulator and cut-off. J. E. James. No. 1,020,284; Mar. 12; Sp. p. 2717; Gaz. vol. 176; p. 460.
Valve, Hot-water-heater. M. Garl. No. 1,040,306; Oct. 8; Gaz. vol. 183; p. 244.
Valve, Hydraulic. C. L. Powelsen. No. 1,024,909; Apr. 30; Sp. p. 6814; Gaz. vol. 177; p. 1198.
Valve, Hydraulic back-pressure. C. Lightfoot. No. 1,045,715; Nov. 26; Gaz. vol. 184; p. 1022.
Valve indicator, Stop-. J. M. Foster. No. 1,029,600; June 18; Sp. p. 3315; Gaz. vol. 179; p. 590.
Valve, Internal-combustion-engine. E. W. Bowen. No. 1,040,612; Oct. 8; Gaz. vol. 183; p. 350.
Valve-lift spacer. C. W. Smith. No. 1,026,472; May 14; Sp. p. 3050; Gaz. vol. 178; p. 503.
Valve-lifting device. B. C. I. Hallgren. No. 1,044,517; Nov. 19; Gaz vol. 184; p. 573.
Valve, Lock-. W. H. Bees. No. 1,014,203; Jan. 9; Sp. p. 2458; Gaz. vol. 174; p. 413.
Valve-lock. L. C. Hunter. No. 1,034,802; Aug. 6; Gaz. vol. 181; p. 135.
Valve-locking means. R. P. Wilton. No. 1,043,281; Nov. 5; Gaz. vol. 184; p. 83.
Valve-locking mechanism for pneumatic tools, Automatic throttle-. R. A. Norling. No. 1,027,061; May 21; Sp. p. 4386; Gaz. vol. 178; p. 743.
Valve, Locomotive sander-. A. Beasley. No. 1,047,883; Dec. 17; Gaz. vol. 185; p. 797.
Valve mechanism. E. D. Barrett and I. B. Wood. No. 1,013,725; Jan. 2; Sp. p. 1400; Gaz. vol. 174; p. 220.
Valve mechanism. P. D. Schenck. No. 1,018,447; Feb. 27; Sp. p. 4901; Gaz. vol. 175; p. 866.
Valve mechanism. J. E. Williams. No. 1,020,003; Mar. 12; Sp. p. 2128; Gaz. vol. 176; p. 366.
Valve mechanism. G. C. Beck. No. 1,027,977; May 28; Sp. p. 6341; Gaz. vol. 178; p. 1088.
Valve mechanism. R. Schnicke. No. 1,042,151; Oct. 22; Gaz. vol. 183; p. 938.
Valve mechanism. J. C. Romick, Jr. No. 1,045,441; Nov. 26; Gaz. vol. 184; p. 924.
Valve mechanism, Automatic. A. König. No. 1,031,451; July 2; Gaz. vol. 180; p. 210.
Valve mechanism, Engine. N. S. Seeley. No. 1,030,927; July 2; Gaz. vol. 180; p. 26.
Valve mechanism, Exhaust-. C. T. Denker. No. 1,013,867; Jan. 9; Sp. p. 1734; Gaz. vol. 174; p. 299.
Valve mechanism for automobile-engines, &c. O. E. Kellum. No. 1,038,598; Sept. 17; Gaz. vol. 182; p. 547.
Valve mechanism for bumping-machines, Automatic. H. L. Demmler. No. 1,042,094; Oct. 22; Gaz. vol. 183; p. 919.
Valve mechanism for door-checks. J. C. Regan. No. 1,018,268; Feb. 20; Sp. p. 4503; Gaz. vol. 175; p. 773.
Valve mechanism for draft-regulators. J. Milton. No. 1,031,458; July 2; Gaz. vol. 180; p. 212.
Valve mechanism for furnaces. C. Longenecker. No. 1,017,159; Feb. 13; Sp. p. 2069; Gaz. vol. 175; p. 356.
Valve mechanism for jarring-machines. E. C. Wiley. No. 1,039,678; Sept. 24; Gaz. vol. 182; p. 937.
Valve mechanism for pneumatic tools. V. J. O'Brien and R. C. Awkerman. No. 1,020,619; Mar. 19; Sp. p. 3432; Gaz. vol. 176; p. 607.
Valve mechanism for steam-engines. J. C. Bird. No. 1,047,912; Dec. 24; Gaz. vol. 185; p. 835.
Valve mechanism, Hoisting-engine. S. T. Nelson. No. 1,034,024; July 30; Gaz. vol. 180; p. 1235.
Valve mechanism, Hoisting-engine. S. T. Nelson. No. 1,034,025; July 30; Gaz. vol. 180; p. 1235.
Valve mechanism, Motor. F. L. Wood. No. 1,042,634; Oct. 29; Gaz. vol. 183; p. 1132.
Valve mechanism, Steam-engine. F. V. Broadaway. No. 1,016,393; Feb. 6; Sp. p. 346; Gaz. vol. 175; p. 55.
Valve mechanism, Turbine. J. Wilkinson. No. 1,021,224; Mar. 26; Sp. p. 4710; Gaz. vol. 176; p. 862.
Valve mechanism, Vacuum-. C. Stickle. No. 1,015,596; Jan. 23; Sp. p. 5534; Gaz. vol. 174; p. 947.
Valve, Mixing-. E. Kieweg, H. Moeller, and F. Wagner. No. 1,025,575; May 7; Sp. p. 1060; Gaz. vol. 178; p. 163.
Valve, Needle-. C. J. Coleman. No. 1,038,527; Sept. 17; Gaz. vol. 182; p. 523.
Valve, Oil-well. J. M. Loffland. No. 1,021,840; Apr. 2; Sp. p. 197; Gaz. vol. 177; p. 32.
Valve operating and reversing mechanism for motors worked by expansible motive fluids, Distributing-. A. Bugnon. No. 1,039,893; Oct. 1; Gaz. vol. 183; p. 75.
Valve-operating device. G. B. Porsch. No. 1,035,123; Aug. 6; Gaz. vol. 181; p. 240.
Valve-operating device, Electric. T. H. Wurmb and R. Baumann. No. 1,022,914; Apr. 9; Sp. p. 2479; Gaz. vol. 177; p. 422.
Valve-operating mechanism. F. Kramer. No. 1,017,977; Feb. 20; Sp. p. 3891; Gaz. vol. 175; p. 673.
Valve-operating mechanism, Flushing-. W. H. Schulte. No. 1,016,714; Feb. 6; Sp. p. 1088; Gaz. vol. 175; p. 167.
Valve-operating mechanism for motors. J. M. Larson. No. 1,044,197; Nov. 12; Gaz. vol. 184; p. 433.
Valve or cover for tanks. R. H. Moore. No. 1,040,730; Oct. 8; Gaz. vol. 183; p. 392.
Valve or cut-off. L. B. Howard and G. W. Denief. No. 1,039,059; Sept. 17; Gaz. vol. 182; p. 703.
Valve, Oscillating. G. A. Rush. No. 1,026,459; May 14; Sp. p. 3027; Gaz. vol. 178; p. 499.
Valve, Oscillating. J. W. Davis. No. 1,030,167; June 18; Sp. p. 4553; Gaz. vol. 179; p. 786.
Valve, Piston-. E. F. Williams. No. 1,016,053; Jan. 30; Sp. p. 6507; Gaz. vol. 174; p. 1132.
Valve, Piston-. J. B. Kingan and H. F. Ripken. No. 1,037,777; Sept. 3; Gaz. vol. 182; p. 200.
Valve, Piston-. S. M. Vauclain and W. S. Hodges. No. 1,045,644; Nov. 26; Gaz. vol. 184; p. 997.
Valve, Piston-. F. A. Bartram. No. 1,046,944; Dec. 10; Gaz. vol. 185; p. 437.
Valve, Plug-. S. S. Caskey. No. 1,027,178; May 21; Sp. p. 4645; Gaz. vol. 178; p. 780.
Valve, Pneumatically-controlled drain-. M. H. Hess. No. 1,028,722; June 4; Sp. p. 1403; Gaz. vol. 179; p. 218.
Valve, Pop-. C. P. Gaa. No. 1,013,483; Jan. 2; Sp. p. 856; Gaz. vol. 174; p. 137.
Valve, Pop-up waste-. W. J. Bergens. No. 1,035,849; Aug. 20; Gaz. vol. 181; p. 557.
Valve, Pressure-. S. W. Sinsheimer. No. 1,016,967; Feb. 13; Sp. p. 1638; Gaz. vol. 175; p. 288.
Valve, Pressure and electric condenser-. G. P. Carroll. No. 1,045,121; Nov. 26; Gaz. vol. 184; p. 812.
Valve, Pressure-reducing. E. J. Best. No. 1,020,959; Mar. 26; Sp. p. 4160; Gaz. vol. 176; p. 774.

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Valve, Pressure reducing and regulating. W. Hochfeldt. No. 1,033,174; July 23; Gaz. vol. 180; p. 921.
Valve, Pressure-regulating. D. L. Dalrymple. No. 1,013,645; Jan. 2; Sp. p. 1204; Gaz. vol. 174; p. 192.
Valve, Pressure-regulating. J. P. Delaney. No. 1,028,098; June 4; Sp. p. 12; Gaz. vol. 179; p. 5.
Valve, Pressure-release. J. G. Robinson. No. 1,035,238; Aug. 13; Gaz. vol. 181; p. 311.
Valve, Pressure-retaining. J. S. Custer. No. 1,025,381; May 7; Sp. p. 618; Gaz. vol. 178; p. 96.
Valve, Pressure-retaining. G. O. Hammond. No. 1,026,311; May 14; Sp. p. 2689; Gaz. vol. 178; p. 450.
Valve, Pressure-retaining. T. L. Burton. No. 1,027,987; May 28; Sp. p. 6362; Gaz. vol. 178; p. 1092.
Valve, Puppet-. R. Marlatt. No. 1,024,642; Apr. 30; Sp. p. 6270; Gaz. vol. 177; p. 1104.
Valve, Radiator-. J. A. Bemish. No. 1,044,729; Nov. 19; Gaz. vol. 184; p. 647.
Valve, Reducing-. S. A. Stinson. No. 1,040,807; Oct. 8; Gaz. vol. 183; p. 417.
Valve, Regulated automatic-closing. J. L. Gish. No. 1,033,002; July 16; Gaz. vol. 180; p. 823.
Valve, Regulated automatic-closing. J. L. Gish. No. 1,042,546; Oct. 29; Gaz. vol. 183; p. 1100.
Valve, Regulated automatic-closing. J. L. Gish. No. 1,042,547; Oct. 29; Gaz. vol. 183; p. 1101.
Valve, Regulating-. H. Wheeler. No. 1,019,869; Mar. 12; Sp. p. 1840; Gaz. vol. 176; p. 323.
Valve-regulating mechanism. W. B. Hammond. No. 1,041,272; Oct. 15; Gaz. vol. 183; p. 607.
Valve-regulating mechanism. W. B. Hammond. No. 1,041,273; Oct. 15; Gaz. vol. 183; p. 608.
Valve, Relief-. C. P. White. No. 1,023,187; Apr. 16; Sp. p. 3106; Gaz. vol. 177; p. 556.
Valve, Relief-. W. O. Moody. No. 1,037,509; Sept. 3; Gaz. vol. 182; p. 113.
Valve, Relief-. J. C. Watson. No. 1,040,068; Oct. 1; Gaz. vol. 183; p. 133.
Valve-remover. H. J. Beck. No. 1,038,520; Sept. 17; Gaz. vol. 182; p. 520.
Valve-reseating machine. R. H. Hazeltine. (Reissue.) No. 13,421; May 21; Sp. p. 5094; Gaz. vol. 178; p. 856.
Valve, Retaining-. F. E. Martin. No. 1,043,122; Nov. 5; Gaz. vol. 184; p. 26.
Valve, Retarded-release. W. V. Turner. No. 1,039,219; Sept. 24; Gaz. vol. 182; p. 776.
Valve, Reversing-. H. B. Rose. No. 1,045,749; Nov. 26; Gaz. vol. 184; p. 1033.
Valve-reversing gear. C. L. Heisler. No. 1,036,842; Aug. 27; Gaz. vol. 181; p. 931.
Valve, Rotary. E. Ballou. No. 1,018,386; Feb. 20; Sp. p. 4755; Gaz. vol. 175; p. 814.
Valve, Rotary. C. L. Powelsen. No. 1,024,908; Apr. 30; Sp. p. 6812; Gaz. vol. 177; p. 1198.
Valve, Rotary-steam-engine. R. R. Resch. No. 1,048,735; Dec. 31; Gaz. vol. 185; p. 1151.
Valve, Rotatable pump-. H. H. Riley. No. 1,041,165; Oct. 15; Gaz. vol. 183; p. 571.
Valve, Safety-. J. Auld and J. Graham. No. 1,014,435; Jan. 9; Sp. p. 2986; Gaz. vol. 174; p. 495.
Valve, Safety-. E. F. Miller. No. 1,020,921; Mar. 19; Sp. p. 4056; Gaz. vol. 176; p. 709.
Valve, Safety-. D Cockburn and D. MacNicoll. No. 1,026,734; May 21; Sp. p. 3619; Gaz. vol. 178; p. 629.
Valve, Safety-. B. Stevens. No. 1,028,627; June 4; Sp. p. 1219; Gaz. vol. 179; p. 187.
Valve, Safety-. W. E. Jerauld. No. 1,032,482; July 16; Gaz. vol. 180; p. 648.
Valve, Safety- G. L. Burlingame and P. P. Menard. No. 1,039,693; Oct. 1; Gaz. vol. 183; p. 6.
Valve, Safety air-brake. F. T. Jones. No. 1,049,306; Dec. 31; Gaz. vol. 185; p. 1348.
Valve, Safety gas-. H. R. Cox and W. Schmidt. No. 1,037,208; Sept. 3; Gaz. vol. 182; p. 10.
Valve-seat. P. Anderson. No. 1,041,945; Oct. 22; Gaz. vol. 183; p. 870.
Valve-seat-dressing tool. F. L. Smith and T. B. Williams. No. 1,028,295; June 4; Sp. p. 507; Gaz. vol. 179; p. 74.
Valve-seat-facing machine. T. B. Williams. No. 1,036,394; Aug. 20; Gaz. vol. 181; p. 748.
Valve-seating and surface-lapping machine. O. A. Olson. No. 1,024,806; Apr. 30; Sp. p. 6607; Gaz. vol. 177; p. 1162.
Valve-seating implement. A. W. Meitz. No. 1,022,038; Apr. 2; Sp. p. 609; Gaz. vol. 177; p. 96.
Valve, Semi-automatic check-. L. Thomas and J. U. Jeffries. No. 1,031,300; July 2; Gaz. vol. 180; p. 159.
Valve separator, Steam-. G. Restucci. No. 1,019,278; Mar. 5; Sp. p. 612; Gaz. vol. 176; p. 95.
Valve, Shut-off T-. R. H. Burke. No. 1,020,022; Mar. 12; Sp. p. 2163; Gaz. vol. 176; p. 373.
Valve, Siphon-. E. P. Allen. No. 1,034,754; Aug. 6; Gaz. vol. 181; p. 118.
Valve, Slide-. J. F. Moran. No. 1,027,560; May 28; Sp. p. 5420; Gaz. vol. 178; p. 949.
Valve, Sliding stop-. C. G. Kleinschmidt. No. 1,029,615; June 18; Sp. p. 3348; Gaz. vol. 179; p. 596.
Valve-spring compressor. P. F. Pilliner. No. 1,045,321; Nov. 26; Gaz. vol. 184; p. 881.
Valve-spring compressor. A. Petersen. No. 1,046,638; Dec. 10; Gaz. vol. 185; p. 331.
Valve-spring lifter for automobile and other engines. C. J. Wolff. No. 1,027,164; May 21; Sp. p. 4623; Gaz. vol. 178; p. 776.
Valve-spring releaser and retainer. E. N. Kraemer. No. 1,035,974; Aug. 20; Gaz. vol. 181; p. 599.
Valve-springs, Device for removing. G. F. Clark. No. 1,034,874; Aug. 6; Gaz. vol. 181; p. 160.
Valve, Sprinkling-pot. T. E. Washburn. No. 1,038,466; Sept. 10; Gaz. vol. 182; p. 469.
Valve, Standing. D. S. Criswell. No. 1,015,142; Jan. 16; Sp. p. 4540; Gaz. vol. 174; p. 766.
Valve, Standing. A. J. Henderson. No. 1,025,977; May 14; Sp. p. 1933; Gaz. vol. 178; p. 334.
Valve, Steam-. J. Hyde. No. 1,017,292; Feb. 13; Sp. p. 2354; Gaz. vol. 175; p. 401.
Valve, Steam, air, and water trap. F. W. Leuthesser. No. 1,031,653; July 2; Gaz. vol. 180; p. 279.
Valve, Steam, air, and water trap. F. W. Leuthesser. No. 1,037,157; Aug. 27; Gaz. vol. 181; p. 1035.
Valve, Steam, air, and water trap. F. W. Leuthesser. No. 1,042,011; Oct. 22; Gaz. vol. 183; p. 892.
Valve, Steam-engine. L. Skinner. No. 1,033,204; July 23; Gaz. vol. 180; p. 931.
Valve-stem and head therefor. L. E. Lowe. No. 1,020,766; Mar. 19; Sp. p. 3757; Gaz. vol. 176; p. 658.
Valve-stem guide for locomotives. F. J. Cole and W. E. Woodard. No. 1,036,800; Aug. 27; Gaz. vol. 181; p. 916.
Valve-stem housing. W. E. Blair. No. 1,037,856; Sept. 10; Gaz. vol. 182; p. 259.
Valve, Stop-. W. Hemme. No. 1,018,560; Feb. 27; Sp. p. 5215; Gaz. vol. 175; p. 906.
Valve system and tracker-board. H. Pierce. (Reissue.) No. 13,492; Dec. 3; Gaz. vol. 185; p. 219.
Valve, Tank-. C. A. Robbins. No. 1,015,980; Jan. 30; Sp. p. 6351; Gaz. vol. 174; p. 1105.
Valve, Tank-. D. W. Gorman. No. 1,029,360; June 11; Sp. p. 2805; Gaz. vol. 179; p. 473.
Valve, Tank-. H. W. Hancock and C. H. Jarvis. No. 1,047,800; Dec. 17; Gaz. vol. 185; p. 768.
Valve, Thermostatic. L. S. Lawson. No. 1,038,159; Sept. 10; Gaz. vol. 182; p. 362.
Valve, Thermostatic compound. W. J. Bergens. No. 1,034,064; July 30; Gaz. vol. 180; p. 1249.
Valve, Throttle-. E. Valloppi. No. 1,013,242; Jan. 2; Sp. p. 333; Gaz. vol. 174; p. 53.
Valve, Throttle-. E. C. Jones. No. 1,037,630; Sept. 3; Gaz. vol. 182; p. 151.
Valve, Trap-. R. H. Thomas. No. 1,024,163; Apr. 23; Sp. p. 5152; Gaz. vol. 177; p. 905.
Valve-trap, Automatic expansion. F. W. Riess. No. 1,036,006; Aug. 20; Gaz. vol. 181; p. 609.
Valve, Triple. W. D. Anderson and E. J. Shearer. No. 1,035,297; Aug. 13; Gaz. vol. 181; p. 331.
Valve, Triple. W. C. Webster, J. I. and E. A. Lacy. No. 1,040,070; Oct. 1; Gaz. vol. 183; p. 134.
Valve-truing tool. A. C. Sargent. No. 1,044,254; Nov. 12; Gaz. vol. 184; p. 453.
Valve, Universal. W. H. Butz. No. 1,036,558; Aug. 27; Gaz. vol. 181; p. 836.
Valve, Unloading-. C. R. Houghton. No. 1,046,593; Dec. 10; Gaz. vol. 185; p. 316.
Valve, Water-saving. J. W. Broadwater. No. 1,020,184; Mar. 12; Sp. p. 2510; Gaz. vol. 176; p. 427.
Valves, Automatic cut-out for trip-. E. H. Dewson. No. 1,037,454; Sept. 3; Gaz. vol. 182; p. 95.
Valves, Automatic mechanism for opening outlet-. R. N. West. No. 1,031,405; July 2; Gaz. vol. 180; p. 195.
Valves, Control of stage-. C. P. Crissey. No. 1,020,684; Mar. 19; Sp. p. 3570; Gaz. vol. 176; p. 628.
Valves, Counterbalancing device for. C. B. Redrup. No. 1,029,461; June 11; Sp. p. 3031; Gaz. vol. 179; p. 507.
Valves, detents, switches, &c., Control of. L. Bachrich. No. 1,043,500; Nov. 5; Gaz. vol. 184; p. 164.
Valves, Device for facilitating the removal of. S. Wanamaker. No. 1,037,691; Sept. 3; Gaz. vol. 182; p. 173.
Valves, Expanding sleeve for standing. D. Daniels and L. P. Burgess. No. 1,039,496; Sept. 24; Gaz. vol. 182; p. 874.
Valves, Feed-indicator for. E. R. Macbeth. No. 1,017,224; Feb. 13; Sp. p. 2226; Gaz. vol. 175; p. 378.
Valves, Fender for gas-stove. C. Zadig and F. H. Kaiser. No. 1,021,034; Mar. 26; Sp. p. 4306; Gaz. vol. 176; p. 800.
Valves, Means for obviating the vibrations of main pressure-actuated. F. Wagner. No. 1,046,236; Dec. 3; Gaz. vol. 185; p. 152.
Valves, Mechanism for operating gas-meter. E. A. Reeves. No. 1,035,905; Aug. 20; Gaz. vol. 181; p. 577.
Valves of explosion-engines, Cooling device for the exhaust-. C. Deutsch. No. 1,043,076; Nov. 5; Gaz. vol. 184; p. 9.
Valves, switches, &c., Time mechanism for operating. C. Prichard. No. 1,047,563; Dec. 17; Gaz. vol. 185; p. 685.
Valveless engine. W. Mauss. No. 1,037,033; Aug. 27; Gaz. vol. 181; p. 994.
Vamp-cutter. F. R. Fuller. No. 1,034,704; Aug. 6; Gaz. vol. 181; p. 101.

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Vamp-pulling apparatus. G. J. Gorsuch. No. 1,030,579; June 25; Sp. p. 5598; Gaz. vol. 179; p. 972.
Vamp-trimming machine. J. B. Hadaway. No. 1,029,187; June 11; Sp. p. 2422; Gaz. vol. 179; p. 412.
Vanadium, Recovery of. B. D. Saklatwalla. No. 1,020,224; Mar. 12; Sp. p. 2605; Gaz. vol. 176; p. 442.
Vanadium, Recovery of. B. D. Saklatwalla. No. 1,020,312; Mar. 12; Sp. p. 2769; Gaz. vol. 176; p. 469.
Vanity-box. P. Nocard. No. 1,022,254; Apr. 2; Sp. p. 1060; Gaz. vol. 177; p. 169.
Vapor-apparatus starter. P. H. Thomas. No. 1,031,890; July 9; Gaz. vol. 180; p. 405.
Vapor-burner. S. Heath. No. 1,016,497; Feb. 6; Sp. p. 591; Gaz. vol. 175; p. 92.
Vapor-burner. M. S. Herzog. No. 1,024,575; Apr. 30; Sp. p. 6110; Gaz. vol. 177; p. 1081.
Vapor-burner. A. I. Blanchard. No. 1,029,264; June 11; Sp. p. 2583; Gaz. vol. 179; p. 439.
Vapor-burner. H. M. Conner. No. 1,030,162; June 18; Sp. p. 4540; Gaz. vol. 179; p. 784.
Vapor-burner. W. M. Shepherd. No. 1,036,353; Aug. 20; Gaz. vol. 181; p. 733.
Vapor-burner for heating and lighting, Round. C. Blankenburg. No. 1,015,988; Jan. 30; Sp. p. 6369; Gaz. vol. 174; p. 1108.
Vapor burner, Hydrocarbon-. C. H. Swanson. No. 1,018,944; Feb. 27; Sp. p. 6002; Gaz. vol. 175; p. 1035.
Vapor, Determining the characteristics of. T. M. Gardner. No. 1,042,782; Oct. 29; Gaz. vol. 183; p. 1183.
Vapor energy into work, Means for converting. E. J. Christie. No. 1,016,210; Jan. 30; Sp. p. 6811; Gaz. vol. 174; p. 1184.
Vapor-engine. H., H., and F. Hildebrand. No. 1,013,773; Jan. 2; Sp. p. 1510; Gaz. vol. 174; p. 239.
Vapor-generator. R. A. Horst and J. C. Goebel. No. 1,026,318; May 14; Sp. p. 2704; Gaz. vol. 178; p. 452.
Vapor-generator. G. Constantinescu. No. 1,032,532; July 16; Gaz. vol. 180; p. 664.
Vapor-generator. C. M. Kruger. No. 1,042,355; Oct. 22; Gaz. vol. 183; p. 1005.
Vapor-proof material, Forming a. J. R. Harbeck. No. 1,027,727; May 28; Sp. p. 5756; Gaz. vol. 178; p. 1003.
Vapor-rectifier and manufacture of same. J. L. R. Hayden. No. 1,041,076; Oct. 15; Gaz. vol. 183; p. 541.
Vaporizer. E. B. Benham. No. 1,015,285; Jan. 23; Sp. p. 4841; Gaz. vol. 174; p. 839.
Vaporizer. E. Madden. No. 1,020,430; Mar. 19; Sp. p. 3015; Gaz. vol. 176; p. 546.
Vaporizer. G. A. Evans. No. 1,048,399; Dec. 24; Gaz. vol. 185; p. 997.
Vaporizer and priming-pump, Combined. F. G. Crone. No. 1,038,300; Sept. 10; Gaz. vol. 182; p. 410.
Vaporizer for hydrocarbon-vapor lamps and stoves. J. C. Preston. No. 1,031,369; July 2; Gaz. vol. 180; p. 182.
Vaporizer, Hydrocarbon-. H. M. Conner. No. 1,046,557; Dec. 10; Gaz. vol. 185; p. 304.
Vaporizing or gasifying hydrocarbon liquids, Device for. E. B. Benham. No. 1,047,153; Dec. 17; Gaz. vol. 185; p. 538.
Vaporizing the volatile constituents of liquids, Method of and apparatus for. C. H. Köhn. No. 1,013,881; Jan. 9; Sp. p. 1771; Gaz. vol. 174; p. 304.
Varnish. L. H. Baekeland. No. 1,018,385; Feb. 20; Sp. p. 4753; Gaz. vol. 175; p. 813.
Varnish. L. H. Baekeland. No. 1,037,719; Sept. 3; Gaz. vol. 182; p. 182.
Varnish-drying holder for heddles. E. Rosenberg. No. 1,027,770; May 28; Sp. p. 5842; Gaz. vol. 178; p. 1017.
Varnish for coating leather, Apparatus for manufacturing. G. W. Priest. No. 1,027,563; May 28; Sp. p. 5432; Gaz. vol. 178; p. 950.
Varnish, paint, &c., Composition for removing. C. F. Marohn. No. 1,035,620; Aug. 13; Gaz. vol. 181; p. 443.
Varnishing-machine. F. J. Balder, F. J. Lawson, and A. C. Davis. No. 1,036,419; Aug. 20; Gaz. vol. 181; p. 756.
Vase, Flower-. P. Mücke. No. 1,045,589; Nov. 26; Gaz. vol. 184; p. 977.
Vat-heater. A. C. Sargent. No. 1,026,704; May 21; Sp. p. 3547; Gaz. vol. 178; p. 619.
Vault, Burial-. F. C. Searle. No. 1,024,527; Apr. 30; Sp. p. 5984; Gaz. vol. 177; p. 1065.
Vault, Burial-. M. Clarkson. No. 1,030,385; June 25; Sp. p. 5070; Gaz. vol. 179; p. 904.
Vault, Burial-. J. H. Milligan. No. 1,031,725; July 9; Gaz. vol. 180; p. 346.
Vault, Burial-. R. O. Armstrong. No. 1,034,185; July 30; Gaz. vol. 180; p. 1290.
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Vault, Cement. F. S. Nixon. No. 1,021,623; Mar. 26; Sp. p. 5562; Gaz. vol. 176; p. 999.
Vault, Cement. W. H. Bales. No. 1,023,118; Apr. 16; Sp. p. 2928; Gaz. vol. 177; p. 531.
Vault-closure. M. E. Cobb. No. 1,035,531; Aug. 13; Gaz. vol. 181; p. 413.
Vault-cover. J. W. Potts. No. 1,020,845; Mar. 19; Sp. p. 3517; Gaz. vol. 176; p. 685.
Vault-cover. H. Sellheim. No. 1,032,864; July 16; Gaz. vol. 180; p. 779.
Vault, Grave-. H. A. Myers. No. 1,033,823; July 30; Gaz. vol. 180; p. 1162.
Vault-light construction. C. H. Paschall. No. 1,039,790; Oct. 1; Gaz. vol. 183; p. 41.
Vault, Metal burial-. O. C. and J. J. Schupp and J. H. Barr. No. 1,043,148; Nov. 5; Gaz. vol. 184; p. 36.
Vault-mold. E. T. Allen. No. 1,014,360; Jan. 9; Sp. p. 2842; Gaz. vol. 174; p. 470.
Vault, Sectional. T. W. Hendry. No. 1,031,552; July 2; Gaz. vol. 180; p. 245.
Vault, Straight. J. G. F. Lund. No. 1,028,578; June 4; Sp. p. 1123; Gaz. vol. 179; p. 171.
Vault, Temporary-burial. J. St. Clair. No. 1,014,614; Jan. 9; Sp. p. 3337; Gaz. vol. 174; p. 553.
Vaults or casings, Locking device for burial. H. D. Clark. No. 1,045,259; Nov. 26; Gaz. vol. 184; p. 860.
Vaults, safes, &c., Electrothermostatic lining for. J. P. Williams and H. Huhn. No. 1,041,395; Oct. 15; Gaz. vol. 183; p. 648.
Vaulting-bar. A. J. Thornley. No. 1,013,829; Jan. 2; Sp. p. 1610; Gaz. vol. 174; p. 257.
Vegetable-grater. H. Wolford. No. 1,032,720; July 16; Gaz. vol. 180; p. 731.
Vegetable-grinding machine. V. and J. V. Albert. No. 1,042,184; Oct. 22; Gaz. vol. 183; p. 948.
Vegetable-sorter. O. W. Fisher. No. 1,021,979; Apr. 2; Sp. p. 490; Gaz. vol. 177; p. 78.
Vegetable washing and scalding apparatus. G. E. Wright. No. 1,019,111; Mar. 5; Sp. p. 224; Gaz. vol. 176; p. 36.
Vehicle. J. E. Kershaw. No. 1,015,804; Jan. 30; Sp. p. 5972; Gaz. vol. 174; p. 1044.
Vehicle. A. E. Long. No. 1,017,983; Feb. 20; Sp. p. 3901; Gaz. vol. 175; p. 675.
Vehicle. C. H. Martin. No. 1,018,248; Feb. 20; Sp. p. 4468; Gaz. vol. 175; p. 767.
Vehicle. J. Charter. No. 1,020,636; Mar. 19; Sp. p. 3473; Gaz. vol. 176; p. 613.
Vehicle, Amusement-. P. Auger. No. 1,014,279; Jan. 9; Sp. p. 2645; Gaz. vol. 174; p. 440.
Vehicle and cable-reeling mechanism therefor, Electric. W. L. Smith. No. 1,045,903; Dec. 3; Gaz. vol. 185; p. 37.
Vehicle attachment. A. R. Hagstrom. No. 1,032,134; July 9; Gaz. vol. 180; p. 483.
Vehicle attachment. C. T. Friedrich. No. 1,034,993; Aug. 6; Gaz. vol. 181; p. 198.
Vehicle attachment. C. H. Herman. No. 1,037,908; Sept. 10; Gaz. vol. 182; p. 279.
Vehicle attachment, Child's-. R. S. Gilkeson. No. 1,023,467; Apr. 16; Sp. p. 3649; Gaz. vol. 177; p. 647.
Vehicle attachment, Motor-. H. A. Ness. No. 1,029,763; June 18; Sp. p. 3679; Gaz. vol. 179; p. 649.
Vehicle automatic brake. J. T. Flight. No. 1,029,860; June 18; Sp. p. 3919; Gaz. vol. 179; p. 682.
Vehicle automatic speed control, Motor-. H. F. Grubb. No. 1,040,189; Oct. 1; Gaz. vol. 183; p. 173.
Vehicle, Automobile bank-. D. H. Bellamore. No. 1,027,978; May 28; Sp. p. 6343; Gaz. vol. 178; p. 1089.
Vehicle back-up brake. D. T. Walsh. No. 1,021,854; Apr. 2; Sp. p. 220; Gaz. vol. 177; p. 36.
Vehicle-body. H. C. Martell. No. 1,033,334; July 23; Gaz. vol. 180; p. 975.
Vehicle-body. F. A. Brand. No. 1,036,790; Aug. 27; Gaz. vol. 181; p. 913.
Vehicle body suspension means, Elastic. D. Robinson. No. 1,033,349; July 23; Gaz. vol. 180; p. 981.
Vehicle-bolster. R. J. Woodward. No. 1,022,913; Apr. 9; Sp. p. 2478; Gaz. vol. 177; p. 422.
Vehicle-brake. H. E. F. R. Block. No. 1,013,473; Jan. 2; Sp. p. 839; Gaz. vol. 174; p. 134.
Vehicle-brake. D. S. Stuck. No. 1,014,978; Jan. 16; Sp. p. 4221; Gaz. vol. 174; p. 710.
Vehicle-brake. A. I. Carnine. No. 1,015,872; Jan. 30; Sp. p. 6114; Gaz. vol. 174; p. 1066.
Vehicle-brake. J. G. Miller. No. 1,018,627; Feb. 27; Sp. p. 5342; Gaz. vol. 175; p. 927.
Vehicle-brake. M. C. Muir. No. 1,024,694; Apr. 30; Sp. p. 6371; Gaz. vol. 177; p. 1122.
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Vehicle-brake. T. N. Moore. No. 1,037,291; Sept. 3; Gaz. vol. 182; p. 37.
Vehicle-brake. W. C. Cooper. No. 1,040,515; Oct. 8; Gaz. vol. 183; p. 315.
Vehicle-brake. E. G. Favre. No. 1,041,056; Oct. 15; Gaz. vol. 183; p. 533.
Vehicle-brake. S. J. Sampson. No. 1,041,356; Oct. 15; Gaz. vol. 183; p. 635.
Vehicle-brake. F. H. Royce. No. 1,046,495; Dec. 10; Gaz. vol. 185; p. 281.
Vehicle-brake. C. H. Blomstrom. No. 1,047,609; Dec. 17; Gaz. vol. 185; p. 702.
Vehicle brake. Automatic motor-. A. Shadlofski. No. 1,040,244; Oct. 1; Gaz. vol. 183; p. 191.
Vehicle canopy-bows, Brace for. A. A. Steckel. No. 1,016,107; Jan. 30; Sp. p. 6624; Gaz. vol. 174; p. 1151.

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Vehicle-chock. W. Greenleaf. No. 1,019,785; Mar. 12; Sp. p. 1685; Gaz. vol. 176; p. 293.
Vehicle-chock. J. B. Harrison. No. 1,047,048; Dec. 10; Gaz. vol. 185; p. 470.
Vehicle, Collapsible. F. Kaplan. No. 1,027,483; May 28; Sp. p. 5260; Gaz. vol. 178; p. 922.
Vehicle, Collecting-. S. C. Cox. No. 1,045,109; Nov. 19; Gaz. vol. 184; p. 779.
Vehicle control mechanism, Electric-. C. E. Cochran. No. 1,020,080; Mar. 12; Sp. p. 2279; Gaz. vol. 176; p. 392.
Vehicle controlling device, Electric-motor-. E. W. Bender, No. 1,016,980; Feb. 13; Sp. p. 1671; Gaz. vol. 175; p. 293.
Vehicle controlling device, Motor-. F. P. Nehrbas, C. Pleuthner, and G. S. Salzman. No. 1,036,307; Aug. 20; Gaz. vol. 181; p. 716.
Vehicle controlling mechanism, Motor-. R. Huff. No. 1,029,685; June 18; Sp. p. 3503; Gaz. vol. 179; p. 621.
Vehicle coupling means. P. Hansmann. No. 1,049,082; Dec. 31; Gaz. vol. 185; p. 1272.
Vehicle-curtain. F. H. Ilse. No. 1,018,498; Feb. 27; Sp. p. 5023; Gaz. vol. 175; p. 884.
Vehicle-curtain. C. S. Applas. No. 1,024,305; Apr. 23; Sp. p. 5453; Gaz. vol. 177; p. 955.
Vehicle-curtain. T. C. Merz. No. 1,044,900; Nov. 19; Gaz. vol. 184; p. 707.
Vehicle cushion-tread. H. P. P. West. No. 1,045,485; Nov. 26; Gaz. vol. 184; p. 940.
Vehicle cushioning device. J. C. Sherman. No. 1,027,288; May 21; Sp. p. 4866; Gaz. vol. 178; p. 819.
Vehicle cushioning device. T. A. Klenke. No. 1,028,740; June 4; Sp. p. 1451; Gaz. vol. 179; p. 224.
Vehicle dash construction, Motor-. C. L. Sheppy and J. R. Way. No. 1,048,900; Dec. 31; Gaz. vol. 185; p. 1209.
Vehicle direction-indicator. C. O. Crowley and H. A. Lamb. No. 1,016,404; Feb. 6; Sp. p. 377; Gaz. vol. 175; p. 60.
Vehicle direction-indicator. J. A. Givens. No. 1,023,732; Apr. 16; Sp. p. 4160; Gaz. vol. 177; p. 730.
Vehicle-door. J. A. Harding. No. 1,043,926; Nov. 12; Gaz. vol. 184; p. 340.
Vehicle door-curtain. H. Ervien. No. 1,047,017; Dec. 10; Gaz. vol. 185; p. 460.
Vehicle door-opening device. E. B. Rhodes. No. 1,022,262; Apr. 2; Sp. p. 1073; Gaz. vol. 177; p. 171.
Vehicle driving and braking means. A. S. Krotz. No. 1,021,197; Mar. 26; Sp. p. 4650; Gaz. vol. 176; p. 852.
Vehicle driving and steering mechanism. Power-operated-. I. W. Bould. No. 1,023,804; Apr. 23; Sp. p. 4317; Gaz. vol. 177; p. 782.
Vehicle driving-gear. J. R. Tibbles. No. 1,026,375; May 14; Sp. p. 2848; Gaz. vol. 178; p. 471.
Vehicle driving-gear, Motor-. C. J. Gran. No. 1,030,081; June 18; Sp. p. 4393; Gaz. vol. 179; p. 758.
Vehicle driving-gear, Motor-. J. A. Scharf. No. 1,045,752; Nov. 26; Gaz. vol. 184; p. 1034.
Vehicle driving mechanism. W. Luxmore. No. 1,045,576; Nov. 26; Gaz. vol. 184; p. 972.
Vehicle, Dumping-. J. Janukaytis. No. 1,036,248; Aug. 20; Gaz. vol. 181; p. 697.
Vehicle, Dumping-. W. S. Witten. No. 1,043,992; Nov. 12; Gaz. vol. 184; p. 364.
Vehicle, Dumping-. S. C. Lancaster. No. 1,047,249; Dec. 17; Gaz. vol. 185; p. 573.
Vehicle, Dumping motor-. G. W. Lally. No. 1,018,118; Feb. 20; Sp. p. 4201; Gaz. vol. 175; p. 722.
Vehicle, Electric. R. Macrae. No. 1,038,615; Sept. 17; Gaz. vol. 182; p. 553.
Vehicle, Electric motor-. E. W. Bender. No. 1,017,198; Feb. 13; Sp. p. 2154; Gaz. vol. 175; p. 368.
Vehicle, Electrically-operated motor-. J. C. Macfarlane and H. Burge. No. 1,049,115; Dec. 31; Gaz. vol. 185; p. 1282.
Vehicle, Electrically-operated motor-. J. C. Macfarlane and H. Burge. No. 1,049,247; Dec. 31; Gaz. vol. 185; p. 1327.
Vehicle, Electrically-propelled. H. W. Leonard. No. 1,042,698; Oct. 29; Gaz. vol. 183; p. 1154.
Vehicle-fender. E. M. Thompson. No. 1,021,435; Mar. 26; Sp. p. 5180; Gaz. vol. 176; p. 937.
Vehicle-fender. A. Sagramoso. No. 1,021,630; Mar. 26; Sp. p. 5575; Gaz. vol. 176; p. 1001.
Vehicle-fender. W. McDuffey. No. 1,041,318; Oct. 15; Gaz. vol. 183; p. 623.
Vehicle-fender. T. A. Bennett. No. 1,041,726; Oct. 22; Gaz. vol. 183; p. 793.
Vehicle fender, Motor-. W. Young. No. 1,018,470; Feb. 27; Sp. p. 4941; Gaz. vol. 175; p. 873.
Vehicle fluid-spring. F. Schreidt. No. 1,025,315; May 7; Sp. p. 460; Gaz. vol. 178; p. 73.
Vehicle-frame. H. Cooper. No. 1,018,482; Feb. 27; Sp. p. 4987; Gaz. vol. 175; p. 877.
Vehicle-frame. O. H. Farver. No. 1,027,193; May 21; Sp. p. 4676; Gaz. vol. 178; p. 786.
Vehicle frame, Motor-. P. Evans. No. 1,021,512; Mar. 26; Sp. p. 5356; Gaz. vol. 176; p. 964.
Vehicle frame suspension, Motor-. E. R. and W. E. Smith and J. J. Weier. No. 1,039,329; Sept. 24; Gaz. vol. 182; p. 816.
Vehicle front driving and steering mechanism, Motor-. M. W. Sappington and E. S. Hornbeck. No. 1,048,213; Dec. 24; Gaz. vol. 185; p. 935.
Vehicle-gear. C. A. Wiberg. No. 1,019,108; Mar. 5; Sp. p. 219; Gaz. vol. 176; p. 35.
Vehicle gearing, Motor-. S. S. Bennett. No. 1,014,036; Jan. 9; Sp. p. 2125; Gaz. vol. 174; p. 355.
Vehicle gearing, Motor-. W. D. Hughs. No. 1,025,188; May 7; Sp. p. 173; Gaz. vol. 178; p. 29.
Vehicle-guard. C. S. Barber. No. 1,015,774; Jan. 30; Sp. p. 5911; Gaz. vol. 174; p. 1035.
Vehicle-hood. T. Golde. No. 1,034,899; Aug. 6; Gaz. vol. 181; p. 167.
Vehicle-hood. T. Golde. No. 1,034,901; Aug. 6; Gaz. vol. 181; p. 167.
Vehicle-hood, Hinged. T. Golde. No. 1,034,902; Aug. 6; Gaz. vol. 181; p. 168.
Vehicle-hood, Hinged. T. Golde. No. 1,034,903; Aug. 6; Gaz. vol. 181; p. 168.
Vehicle-hood, Hinged. T. Golde. No. 1,034,904; Aug. 6; Gaz. vol. 181; p. 168.
Vehicle-hood, Hinged. T. Golde. No. 1,034,905; Aug. 6; Gaz. vol. 181; p. 168.
Vehicle-hood, Hinged. T. Golde. No. 1,034,906; Aug. 6; Gaz. vol. 181; p. 168.
Vehicle-hound. M. F. Meath. No. 1,022,037; Apr. 2; Sp. p. 608; Gaz. vol. 177; p. 96.
Vehicle-jack. G. M. Beard. No. 1,014,801; Jan. 16; Sp. p. 3810; Gaz. vol. 174; p. 648.
Vehicle-jack. F. W. Unger. No. 1,032,453; July 16; Gaz. vol. 180; p. 638.
Vehicle-jack. B. F. Liddon. No. 1,040,223; Oct. 1; Gaz. vol. 183; p. 185.
Vehicle-jack, Automatic. C. N. Friz. No. 1,037,610; Sept. 3; Gaz. vol. 182; p. 145.
Vehicle lever control, Motor-. A. T. Sturt. No. 1,025,216; May 7; Sp. p. 234; Gaz. vol. 178; p. 39.
Vehicle-lock. E. M. Bishop. No. 1,042,875; Oct. 29; Gaz. vol. 183; p. 1216.
Vehicle lock, Motor-. D. P. Graham. No. 1,014,145; Jan. 9; Sp. p. 2347; Gaz. vol. 174; p. 392.
Vehicle lubricating means, Motor-. L. Renault. No. 1,020,054, Mar. 12; Sp. p. 2227; Gaz. vol. 176; p. 384.
Vehicle, Monotrack-. P. Schilowsky. No. 1,041,680; Oct. 15; Gaz. vol. 183; p. 742.
Vehicle, Motor-. B. E. Byrd. No. 1,014,808; Jan. 16; Sp. p. 3822; Gaz. vol. 174; p. 650.
Vehicle, Motor-. C. L. Hemenway and F. W. Updegraff. No. 1,018,052; Feb. 20; Sp. p. 4045; Gaz. vol. 175; p. 699.
Vehicle, Motor-. R. Huff. No. 1,019,254; Mar. 5; Sp. p. 544; Gaz. vol. 176; p. 86.
Vehicle, Motor-. E. S. Sandgren and C. F. Case. No. 1,020,518; Mar. 19; Sp. p. 3194; Gaz. vol. 176; p. 573.
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Vehicle, Motor-. R. Huff. No. 1,025,187; May 7; Sp. p. 171; Gaz. vol. 178; p. 29.
Vehicle, Motor-. C. Hoadley. No. 1,027,730; May 28; Sp. p. 5761; Gaz. vol. 178; p. 1004.
Vehicle, Motor-. R. Huff. No. 1,029,063; June 11; Sp. p. 2157; Gaz. vol. 179; p. 372.
Vehicle, Motor-. V. V. Torbensen. No. 1,032,517; July 16; Gaz. vol. 180; p. 660.
Vehicle, Motor-. C. E. Duryea. No. 1,034,769; Aug. 6; Gaz. vol. 181; p. 123.
Vehicle, Motor-. A. W. Wall. No. 1,036,041; Aug. 20; Gaz. vol. 181; p. 622.
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Vehicle, Motor-. R. J. Nichols. No. 1,045,067; Nov. 19; Gaz. vol. 184; p. 765.
Vehicle, Motor-. L. A. Hill. No. 1,046,388; Dec. 3; Gaz. vol. 185; p. 206.
Vehicle, Motor-. J. E. Plew. No. 1,047,286; Dec. 17; Gaz. vol. 185; p. 587.
Vehicle, Motor-. W. G. Thummel. No. 1,048,232; Dec. 24; Gaz. vol. 185; p. 940.
Vehicle-motor and means for suspending the same, Electric. G. M. Eaton. No. 1,046,748; Dec. 10; Gaz. vol. 185; p. 372.
Vehicle, Motor road-. F. H. Royce. No. 1,024,652; Apr. 30; Sp. p. 6288; Gaz. vol. 177; p. 1108.
Vehicle pneumatic support. C. J. Stovel. No. 1,037,360; Sept. 3; Gaz. vol. 182; p. 61.
Vehicle pneumatic suspension. W. Kneen. No. 1,016,418; Feb. 6; Sp. p. 406; Gaz. vol. 175; p. 64.
Vehicle-reach. L. E. Yoakim. No. 1,036,051; Aug. 20; Gaz. vol. 181; p. 626.
Vehicle rear indicator. W. H. Sammons. No. 1,040,771; Oct. 8; Gaz. vol. 183; p. 405.
Vehicle regenerative brake system. R. E. Brundege. No. 1,030,051; June 18; Sp. p. 4334; Gaz. vol. 179; p. 748.
Vehicle-rim. J. E. Hale. No. 1,013,387; Jan. 2; Sp. p. 658; Gaz. vol. 174; p. 104.
Vehicle-rim, Detachable. M. Wolff. No. 1,044,328; Nov. 12; Gaz. vol. 184; p. 478.

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Vehicle road-wheel. W. Wright. No. 1,042,742; Oct. 29; Gaz. vol. 183; p. 1170.
Vehicle runner attachment. J. F. Leith. No. 1,024,792; Apr. 30; Sp. p. 6584; Gaz. vol. 177; p. 1158.
Vehicle runner attachment. F. R. Dickey. No. 1,047,767; Dec. 17; Gaz. vol. 185; p. 757.
Vehicle runner, Child's-. A. D. and W. H. Westman and J. N. Richards. No. 1,034,749; Aug. 6; Gaz. vol. 181; p. 117.
Vehicle-runner, Detachable. G. B. Ambler. No. 1,030,448; June 25; Sp. p. 5203; Gaz. vol. 179; p. 926.
Vehicle running-gear. F. I. D. Hagenah. No. 1,030,726; June 25; Sp. p. 6017; Gaz. vol. 179; p. 1025.
Vehicle running-gear. O. Kraemer. No. 1,035,975; Aug. 20; Gaz. vol. 181; p. 599.
Vehicle running-gear. O. Sheaffer. No. 1,038,216; Sept. 10; Gaz. vol. 182; p. 380.
Vehicle running-gear, Motor-. D. M. Dearing. No. 1,026,851; May 21; Sp. p. 3875; Gaz. vol. 178; p. 669.
Vehicle sand-band. J. Stokes, Jr. No. 1,025,329; May 7; Sp. p. 495; Gaz. vol. 178; p. 77.
Vehicle-seat, Auxiliary. C. S. Applas. No. 1,013,265; Jan. 2; Sp. p. 381; Gaz. vol. 174; p. 61.
Vehicle-seat, Auxiliary. L. A. Hazen. No. 1,015,799; Jan. 30; Sp. p. 5962; Gaz. vol. 174; p. 1043.
Vehicle-shield. G. L. Smith. No. 1,036,018; Aug. 20; Gaz. vol. 181; p. 613.
Vehicle shock-absorber. H. T. Finnell and E. Schernikow. No. 1,025,388; May 7; Sp. p. 631; Gaz. vol. 178; p. 98.
Vehicle shock-absorber. C. Cabana. No. 1,029,664; June 18; Sp. p. 3451; Gaz. vol. 179; p. 613.
Vehicle shock-absorber. C. T. Schoen. No. 1,035,913; Aug. 20; Gaz. vol. 181; p. 579.
Vehicle shock-absorber. C. T. Schoen. No. 1,038,446; Sept. 10; Gaz. vol. 182; p. 462.
Vehicle shock-absorber. R. E. Hart. No. 1,041,276; Oct. 15; Gaz. vol. 183; p. 609.
Vehicle shock-absorber. G. S. Foster. No. 1,043,820; Nov. 12; Gaz. vol. 184; p. 303.
Vehicle shock-absorber. H. A. Dalley. No. 1,046,989; Dec. 10; Gaz. vol. 185; p. 451.
Vehicle shock-absorber, Pneumatic. G. Kanter. No. 1,036,856; Aug. 27; Gaz. vol. 181; p. 936.
Vehicle shock-absorber, Road-. A. W. Chapman. No. 1,042,320; Oct. 22; Gaz. vol. 183; p. 993.
Vehicle-signal. E. J. Best and C. M. Fitch. No. 1,028,854; June 11; Sp. p. 1698; Gaz. vol. 179; p. 297.
Vehicle-signal. F. L. Stage. No. 1,030,027; June 18; Sp. p. 4263; Gaz. vol. 179; p. 739.
Vehicle sleigh attachment. C. E. Huber. No. 1,021,719; Mar. 26; Sp. p. 5736; Gaz. vol. 176; p. 1030.
Vehicle-spring. F. Wheeler. No. 1,013,577; Jan. 2; Sp. p. 1049; Gaz. vol. 174; p. 169.
Vehicle-spring. W. W. Annable. No. 1,013,855; Jan. 9; Sp. p. 1705; Gaz. vol. 174; p. 295.
Vehicle-spring. M. M. McIntyre. No. 1,014,406; Jan. 9; Sp. p. 2933; Gaz. vol. 174; p. 486.
Vehicle-spring. J. S. Thiell. No. 1,016,905; Feb. 6; Sp. p. 1489; Gaz. vol. 175; p. 230.
Vehicle-spring. G. Conderman. No. 1,017,512; Feb. 13; Sp. p. 2833; Gaz. vol. 175; p. 477.
Vehicle-spring. M. M. McIntyre. No. 1,018,250; Feb. 20; Sp. p. 4471; Gaz. vol. 175; p. 768.
Vehicle-spring. D. J. McCluskey. No. 1,019,336; Mar. 5; Sp. p. 738; Gaz. vol. 176; p. 115.
Vehicle-spring. R. J. Edwards. No. 1,022,228; Apr. 2; Sp. p. 1011; Gaz. vol. 177; p. 162.
Vehicle-spring. F. Denman. No. 1,022,775; Apr. 9; Sp. p. 2195; Gaz. vol. 177; p. 377.
Vehicle-spring. W. S. Lee. No. 1,023,859; Apr. 23; Sp. p. 4468; Gaz. vol. 177; p. 801.
Vehicle-spring. A. Moffitt. No. 1,023,865; Apr. 23; Sp. p. 4478; Gaz. vol. 177; p. 802.
Vehicle-spring. H. Austin. No. 1,025,233; May 7; Sp. p. 270; Gaz. vol. 178; p. 45.
Vehicle-spring. A. Collette. No. 1,026,496; May 14; Sp. p. 3100; Gaz. vol. 178; p. 512.
Vehicle-spring. R. S. Trott. No. 1,029,730; June 18; Sp. p. 3619; Gaz. vol. 179; p. 638.
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Vehicle-spring. R. S. Trott. No. 1,029,732; June 18; Sp. p. 3622; Gaz. vol. 179; p. 638.
Vehicle-spring. W. Roper. No. 1,031,028; July 2; Gaz. vol. 180; p. 63.
Vehicle-spring. J. E. Anger. No. 1,031,612; July 2; Gaz. vol. 180; p. 264.
Vehicle-spring. G. M. Huston. No. 1,032,214; July 9; Gaz. vol. 180; p. 512.
Vehicle-spring. G. M. Huston. No. 1,032,335; July 9; Gaz. vol. 180; p. 554.
Vehicle-spring. L. D. Jones. No. 1,032,681; July 16; Gaz. vol. 180; p. 717.
Vehicle-spring. T. J. Magner. No. 1,033,429; July 23; Gaz. vol. 180; p. 1007.
Vehicle-spring. H. S. Chapin. No. 1,034,401; July 30; Gaz. vol. 180; p. 1366.
Vehicle-spring. C. H. Wilcken. No. 1,034,551; Aug. 6; Gaz. vol. 181; p. 50.
Vehicle-spring. G. M. Huston. No. 1,036,247; Aug. 20; Gaz. vol. 181; p. 697.
Vehicle-spring. P. L. Rookledge and G. W. Gillespie. No. 1,044,692; Nov. 19; Gaz. vol. 184; p. 635.
Vehicle-spring. G. E. Neuberth. No. 1,048,336; Dec. 24; Gaz. vol. 185; p. 976.
Vehicle-spring. W. Roper. No. 1,049,001; Dec. 31; Gaz. vol. 185; p. 1244.
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Vehicle, Spring-. R. Liebau. No. 1,020,209; Mar. 12; Sp. p. 2570; Gaz. vol. 176; p. 436.
Vehicle, Spring-. R. Liebau. No. 1,026,098; May 14; Sp. p. 2232; Gaz. vol. 178; p. 377.
Vehicle spring and shock-absorber, Combined. J. S. Bashaw. No. 1,033,657; July 23; Gaz. vol. 180; p. 1082.
Vehicle spring attachment. G. Graybill. No. 1,041,460; Oct. 15; Gaz. vol. 183; p. 669.
Vehicle spring, Motor-. A. E. Hall. No. 1,037,477; Sept. 3; Gaz. vol. 182; p. 103.
Vehicle-spring, Pneumatic. L. R. Gruss. No. 1,013,487; Jan. 2; Sp. p. 871; Gaz. vol. 174; p. 139.
Vehicle-spring, Pneumatic. C. R. Palmer. No. 1,013,808; Jan. 2; Sp. p. 1568; Gaz. vol. 174; p. 250.
Vehicle-spring, Pneumatic. A. C. Vail. No. 1,029,644; June 18; Sp. p. 3406; Gaz. vol. 179; p. 606.
Vehicle-spring, Pneumatic. T. D. Quigley. No. 1,029,945; June 18; Sp. p. 4100; Gaz. vol. 179; p. 711.
Vehicle-spring, Pneumatic. R. Liebau. No. 1,046,090; Dec. 3; Gaz. vol. 185; p. 100.
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Vehicle spring-shackle. H. G. Trench. No. 1,042,173; Oct. 22; Gaz. vol. 183; p. 945.
Vehicle spring suspension. J. J. Charley. No. 1,013,742; Jan. 2; Sp. p. 1444; Gaz. vol. 174; p. 227.
Vehicle spring suspension. J. J. Charley and F. Lamplough. No. 1,046,553; Dec. 10; Gaz. vol. 185; p. 303.
Vehicle spring suspension. W. E. Eastman. No. 1,048,510; Dec. 31; Gaz. vol. 185; p. 1074.
Vehicle spring top-support. F. N. Schad. No. 1,035,246; Aug. 13; Gaz. vol. 181; p. 313.
Vehicle steering apparatus, Motor-. F. E. Lake. No. 1,031,347; July 2; Gaz. vol. 180; p. 175.
Vehicle steering device, Power-propelled-. R. Stock. No. 1,022,160; Apr. 2; Sp. p 866; Gaz. vol. 177; p. 137.
Vehicle steering device, Traction-. L. S. Hackney. No. 1,031,064; July 2; Gaz. vol. 180; p. 77.
Vehicle steering device, Traction-. L. S. Hackney. No. 1,031,065; July 2; Gaz. vol. 180; p. 78.
Vehicle steering-gear. J. M. Gilstrap. No. 1,024,505; Apr. 30; Sp. p. 5926; Gaz. vol. 177; p. 1057.
Vehicle steering-gear. H. Schumacher. No. 1,030,793; June 25; Sp. p. 6211; Gaz. vol. 179; p. 1050.
Vehicle steering-head. G. F. Garrity. No. 1,026,504; May 14; Sp. p. 3115; Gaz. vol. 178; p. 514.
Vehicle steering mechanism. E. W. Bliss. No. 1,026,146; May 14; Sp. p. 2331; Gaz. vol. 178; p. 394.
Vehicle steering mechanism. S. H. Kennedy. No. 1,047,238; Dec. 17; Gaz. vol. 185; p. 569.
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Vehicle-step. S. W. Mather. No. 1,026,102; May 14; Sp. p. 2245; Gaz. vol. 178; p. 378.
Vehicle storm-front. G. W. Tingle. No. 1,035,271; Aug. 13; Gaz. vol. 181; p. 322.
Vehicle supplementary seat, Two-wheel-. T. De Young, Jr. No. 1,037,216; Sept. 3; Gaz. vol. 182; p. 13.
Vehicle-support. J. Bowron. No. 1,023,618; Apr. 16; Sp. p. 3963; Gaz. vol. 177; p. 696.
Vehicle-support. A. E. and J. W. Blair. No. 1,042,877; Oct. 29; Gaz. vol. 183; p. 1216.
Vehicle support, Two-wheeled-. A. H. O'Brien. No. 1,044,232; Nov. 12; Gaz. vol. 184; p. 445.
Vehicle supporting device. G. Westinghouse. No. 1,031,759; July 9; Gaz. vol. 180; p. 359.
Vehicle suspension arrangement, Road-. L. E. Cowey. No. 1,020,385; Mar. 12; Sp. p. 2907; Gaz. vol. 176; p. 492.
Vehicle suspension arrangement, Road-. L. E. Cowey. No. 1,037,730; Sept. 3; Gaz. vol. 182; p. 185.
Vehicle suspension, Motor-. K. Crittenden. No. 1,046,273; Dec. 3; Gaz. vol. 185; p. 165.
Vehicle suspension-spring. L. P. C. J. Jacquet. No. 1,015,682; Jan. 23; Sp. p. 5731; Gaz. vol. 174; p. 976.
Vehicle tank, Motor-. H. E. Coffin. No. 1,039,098; Sept. 24; Gaz. vol. 182; p. 734.
Vehicle tent or awning attachment. D. Whipple and J. R. Fordyce. No. 1,018,798; Feb. 27; Sp. p. 5710; Gaz. vol. 175; p. 986.
Vehicle, Three-wheeled motor-driven. W. H. Williams. No. 1,036,396; Aug. 20; Gaz. vol. 181; p. 748.
Vehicle-top. A. Ritchie. No. 1,026,368; May 14; Sp. p. 2832; Gaz. vol. 178; p. 469.
Vehicle-top. C. L. Bair. No. 1,041,571; Oct. 15; Gaz. vol. 183; p. 704.
Vehicle top-antirattler. O. Eckberg. No. 1,047,184; Dec. 17; Gaz. vol. 185; p. 549.
Vehicle-top bow-clamp. R. Thompson. No. 1,015,360; Jan. 23; Sp. p. 5013; Gaz. vol. 174; p. 866.

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Vehicle-top bracket-support. A. G. Steinbrenner. No. 1,016,653; Feb. 6; Sp. p. 961; Gaz. vol. 175; p. 145.
Vehicle top connection. H. C. Egleston. No. 1,045,268; Nov. 26; Gaz. vol. 184; p. 863.
Vehicle top-curtain. W. T. Murray. No. 1,034,280; July 30; Gaz. vol. 180; p. 1324.
Vehicle-top, Folding. T. Golde. No. 1,034,899; Aug. 6; Gaz. vol. 181; p. 167.
Vehicle top-guy. H. M. Ormsby. No. 1,028,266; June 4; Sp. p. 444; Gaz. vol. 179; p. 64.
Vehicle top-raiser. G. W. Christopher. No. 1,034,423; Aug. 6; Gaz. vol. 181; p. 9.
Vehicle top-rest. B. C. Rankin. No. 1,042,966; Oct. 29; Gaz. vol. 183; p. 1245.
Vehicle top-supporting device. J. R. Thomas. No. 1,044,427; Nov. 12; Gaz. vol. 184; p. 512.
Vehicle, Trackless power-driven. I. E. Palmer. No. 1,022,151; Apr. 2; Sp. p. 846; Gaz. vol. 177; p. 134.
Vehicle, Traction-. H. M. Fletcher. No. 1,024,066; Apr. 23; Sp. p. 4918; Gaz. vol. 177; p. 872.
Vehicle, Traction-. H. A. Howard. No. 1,024,578; Apr. 30; Sp. p. 6116; Gaz. vol. 177; p. 1082.
Vehicle, Traction-. W. E. Paine. No. 1,025,714; May 7; Sp. p. 1336; Gaz. vol. 178; p. 208.
Vehicle, Traction-. W. E. Paine. No. 1,037,168; Aug. 27; Gaz. vol. 181; p. 1039.
Vehicle transmission-gearing, Motor-. R. Huff. No. 1,033,102; July 23; Gaz. vol. 180; p. 896.
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Vehicle tripping attachment. A. M. Green. No. 1,013,935; Jan. 9; Sp. p. 1895; Gaz. vol. 174; p. 323.
Vehicle turning device. J. M. Eadie. No. 1,028,866; June 11; Sp. p. 1723; Gaz. vol. 179; p. 02
Vehicle-washer. E. Muller. No. 1,022,042; Apr. 2; Sp. p. 619; Gaz. vol. 177; p. 98.
Vehicle-washer. E. Muller. No. 1,046,839; Dec. 10; Gaz. vol. 185; p. 402.
Vehicle-wheel. H. Duncan. No. 1,013,282; Jan. 2; Sp. p. 421; Gaz. vol. 174; p. 68.
Vehicle-wheel. T. B. Jeffery. No. 1,013,295; Jan. 2; Sp. p. 465; Gaz. vol. 174; p. 72.
Vehicle-wheel. B. A. Dennis. No. 1,014,131; Jan. 9; Sp. p. 2326; Gaz. vol. 174; p. 388.
Vehicle-wheel. A. Y. Davis. No. 1,014,694; Jan. 16; Sp. p. 3577; Gaz. vol. 174; p. 612.
Vehicle-wheel. S. Oldham. No. 1,015,064; Jan. 16; Sp. p. 4398; Gaz. vol. 174; p. 739.
Vehicle-wheel. W. H. Humfeld. No. 1,015,186; Jan. 16; Sp. p. 4617; Gaz. vol. 174; p. 779.
Vehicle-wheel. A. Mosso and P. Giovanetti. No. 1,015,700; Jan. 23; Sp. p. 5762; Gaz. vol. 174; p. 982.
Vehicle-wheel. A. Williams. No. 1,015,864; Jan. 30; Sp. p. 6098; Gaz. vol. 174; p. 1063.
Vehicle-wheel. C. F. Heinss. No. 1,015,888; Jan. 30; Sp. p. 6156; Gaz. vol. 174; p. 1073.
Vehicle-wheel. E. B. Killen. No. 1,016,330; Feb. 6; Sp. p. 215; Gaz. vol. 175; p. 33.
Vehicle-wheel. W. J. Cunningham. No. 1,016,673; Feb. 6; Sp. p. 1009; Gaz. vol. 175; p. 152.
Vehicle-wheel. I. L. Tvinde. No. 1,017,236; Feb. 13; Sp. p. 2248; Gaz. vol. 175; p. 382.
Vehicle-wheel. A. A. MacDonald. No. 1,018,718; Feb. 27; Sp. p. 5532; Gaz. vol. 175; p. 958.
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Vehicle-wheel. A. Schick. No. 1,019,192; Mar. 5; Sp. p. 412; Gaz. vol. 176; p. 65.
Vehicle-wheel. N. Schenk. No. 1,019,845; Mar. 12; Sp. p. 1788; Gaz. vol. 176; p. 313.
Vehicle-wheel. H. W. Henry. No. 1,019,896; Mar. 12; Sp. p. 1911; Gaz. vol. 176; p. 332.
Vehicle-wheel. O. G. Worsley. No. 1,020,338; Mar. 12; Sp. p. 2808; Gaz. vol. 176; p. 476.
Vehicle-wheel. C. J. Sandrik. No. 1,020,450; Mar. 19; Sp. p. 3053; Gaz. vol. 176; p. 553.
Vehicle-wheel. L. L. Gregg, Jr. No. 1,020,977; Mar. 26; Sp. p. 4203; Gaz. vol. 176; p. 781.
Vehicle-wheel. E. A. Glenn. No. 1,021,459; Mar. 26; Sp. p. 5229; Gaz. vol. 176; p. 945.
Vehicle-wheel. G. B. Lambert. No. 1,022,369; Apr. 2; Sp. p. 1282; Gaz. vol. 177; p. 207.
Vehicle-wheel. B. W. Miller. No. 1,023,025; Apr. 9; Sp. p. 2701; Gaz. vol. 177; p. 461.
Vehicle-wheel. L. K. Stephens. No. 1,023,598; Apr. 16; Sp. p. 3928; Gaz. vol. 177; p. 690.
Vehicle-wheel. R. T. Smith. No. 1,024,154; Apr. 23; Sp. p. 5132; Gaz. vol. 177; p. 902.
Vehicle-wheel. T. Rhodus. No. 1,025,483; May 7; Sp. p. 838; Gaz. vol. 178; p. 131.
Vehicle-wheel. C. B. Ross. No. 1,025,591; May 7; Sp. p. 1090; Gaz. vol. 178; p. 169.
Vehicle-wheel. A. R. Wylie and J. G. Wright. No. 1,026,291; May 14; Sp. p. 2645; Gaz. vol. 178; p. 443
Vehicle-wheel. A. R. Wylie and J. G. Wright. No. 1,026,292; May 14; Sp. p. 2647; Gaz. vol. 178; p. 443.
Vehicle-wheel. H. J. Sewell. No. 1,026,370; May 14; Sp. p. 2836; Gaz. vol. 178; p. 469.
Vehicle-wheel. K. A. Read. No. 1,026,829; May 21; Sp. p. 3822; Gaz. vol. 178; p. 661.
Vehicle-wheel. J. A. Etzold. No. 1,027,409; May 28; Sp. p. 5123; Gaz. vol. 178; p. 899.
Vehicle-wheel. A. G. Reaman. No. 1,027,434; May 28; Sp. p. 5177; Gaz. vol. 178; p. 907.
Vehicle-wheel. A. F. Schulz. No. 1,027,507; May 28; Sp. p. 5315; Gaz. vol. 178; p. 931.
Vehicle-wheel. L. R. Gruss. No. 1,027,647; May 28; Sp. p. 5592; Gaz. vol. 178; p. 977.
Vehicle-wheel. F. Housholder. No. 1,028,727; June 4; Sp. p. 1413; Gaz. vol. 179; p. 220.
Vehicle-wheel. W. W. Revell. No. 1,029,633; June 18; Sp. p. 3385; Gaz. vol. 179; p. 603.
Vehicle-wheel. A. F. Priest. No. 1,030,610; June 25; Sp. p. 5710; Gaz. vol. 179; p. 984.
Vehicle-wheel. W. L. Howard. No. 1,031,341; July 2; Gaz. vol. 180; p. 173.
Vehicle-wheel. I. F. Tucker. No. 1,031,891; July 9; Gaz. vol. 180; p. 405.
Vehicle-wheel. L. H. Hodges. No. 1,031,933; July 9; Gaz. vol. 180; p. 419.
Vehicle-wheel. L. Hoskins. No. 1,032,064; July 9; Gaz. vol. 180; p. 461.
Vehicle-wheel. F. F. Dorsey. No. 1,032,125; July 9; Gaz. vol. 180; p. 481.
Vehicle-wheel. J. Sinnott. No. 1,032,435; July 16; Gaz. vol. 180; p. 632.
Vehicle-wheel. V. Sanphy. No. 1,032,863; July 16; Gaz. vol. 180; p. 778.
Vehicle-wheel. J. W. Calta. No. 1,032,877; July 16; Gaz. vol. 180; p. 783.
Vehicle-wheel. R. T. Smith, Jr. No. 1,032,957; July 16; Gaz. vol. 180; p. 807.
Vehicle-wheel. J. W. McCallum. No. 1,033,185; July 23; Gaz. vol. 180; p. 925.
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Vehicle-wheel. T. H. Rushton. No. 1,033,944; July 30; Gaz. vol. 180; p. 1205.
Vehicle-wheel. A. McKillop. No. 1,034,271; July 30; Gaz. vol. 180; p. 1321.
Vehicle-wheel. C. W. Barrett. No. 1,034,382; July 30; Gaz. vol. 180; p. 1359.
Vehicle-wheel. M. McIntosh. No. 1,034,390; July 30; Gaz. vol. 180; p. 1362.
Vehicle-wheel. P. I. Viel. No. 1,034,847; Aug. 6; Gaz. vol. 181; p. 151.
Vehicle-wheel. T. A. Hargraves and E. J. McCord. No. 1,035,004; Aug. 6; Gaz. vol. 181; p. 201.
Vehicle-wheel. J. K. Libby. No. 1,035,207; Aug. 13; Gaz. vol. 181; p. 300.
Vehicle-wheel. W. C. Allen. No. 1,036,533; Aug. 27; Gaz. vol. 181; p. 827.
Vehicle-wheel. A. H. Flournoy. No. 1,036,599; Aug. 27; Gaz. vol. 181; p. 850.
Vehicle-wheel. R. D. Muro. No. 1,036,685; Aug. 27; Gaz. vol. 181; p. 879.
Vehicle-wheel. A. R. Wylie and J. G. Wright. No. 1,036,770; Aug. 27; Gaz. vol. 181; p. 906.
Vehicle-wheel. T. J. Holland. No. 1,037,144; Aug. 27; Gaz. vol. 181; p. 1031.
Vehicle-wheel. W. Arnold. No. 1,037,847; Sept. 10; Gaz. vol. 182; p. 256.
Vehicle-wheel. W. W. Krutsch. No. 1,037,931; Sept. 10; Gaz. vol. 182; p. 287.
Vehicle-wheel. G. R. Bennett. No. 1,038,522; Sept. 17; Gaz. vol. 182; p. 521.
Vehicle-wheel. C. A. Russell. No. 1,038,661; Sept. 17; Gaz. vol. 182; p. 569.
Vehicle-wheel. H. V. Souders. No. 1,039,607; Sept. 24; Gaz. vol. 182; p. 913.
Vehicle-wheel. A. Hawkins-Masters. No. 1,039,772; Oct. 1; Gaz. vol. 183; p. 35.
Vehicle-wheel. W. Dalton. No. 1,040,157; Oct. 1; Gaz. vol. 183; p. 163.
Vehicle-wheel. J. C. Eubank and C. P. Barnett. No. 1,040,178; Oct. 1; Gaz. vol. 183; p. 170.
Vehicle-wheel. H. S. Grace. No. 1,042,214; Oct. 22; Gaz. vol. 183; p. 959.
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Vehicle-wheel. O. Zarth. No. 1,043,283; Nov. 5; Gaz. vol. 184; p. 84.
Vehicle-wheel. J. B. Hayden. No. 1,043,828; Nov. 12; Gaz. vol. 184; p. 306.
Vehicle-wheel. E. C. Kingsford. No. 1,046,804; Dec. 10; Gaz. vol. 185; p. 391.
Vehicle-wheel. T. T. Chaloner. No. 1,046,969; Dec. 10; Gaz. vol. 185; p. 445.
Vehicle-wheel. A. Jaeger. No. 1,047,642; Dec. 17; Gaz. vol. 185; p. 713.
Vehicle-wheel. S. C. Hatfield. No. 1,049,300; Dec. 31; Gaz. vol. 185; p. 1346.
Vehicle wheel and axle. J. E. Murray. No. 1,026,220; May 14; Sp. p. 2503; Gaz. vol. 178; p. 419.
Vehicle wheel and tire. S. N. McClean. No. 1,015,238; Jan. 16; Sp. p. 4723; Gaz. vol. 174; p. 796.
Vehicle-wheel chain-guard. C. T. Raymond. No. 1,025,159; May 7; Sp. p. 103; Gaz. vol. 178; p. 18.

Vehicle-wheel, Elastic. F. I. Sears. No. 1,025,209; May 7; Sp. p. 220; Gaz. vol. 178; p. 37.
Vehicle-wheel, Metallic. H. J. Donahoe. No. 1,018,303; Feb. 20; Sp. p. 4575; Gaz. vol. 175; p. 785.
Vehicle-wheel, Metallic. H. J. Donahoe. No. 1,029,856; June 18; Sp. p. 3912; Gaz. vol. 179; p. 681.
Vehicle wheel, Motor-. A. T. Beeler. No. 1,016,200; Jan. 30; Sp. p. 6788; Gaz. vol. 174; p. 1180.
Vehicle wheel, Motor-. F. O. Woodland. No. 1,031,763; July 9; Gaz. vol. 180; p. 360.
Vehicle-wheel, Pneumatic. G. Kanter. No. 1,036,855; Aug. 27; Gaz. vol. 181; p. 935.
Vehicle-wheel, Resilient. F. H. Beamer. No. 1,023,497; Apr. 16; Sp. p. 3713; Gaz. vol. 177; p. 657.
Vehicle-wheel, Resilient. H. J. Sheedy. No. 1,029,323; June 11; Sp. p. 2721; Gaz. vol. 179; p. 460.
Vehicle-wheel, Resilient. J. D. Van Atta. No. 1,030,946; July 2; Gaz. vol. 180; p. 33.
Vehicle-wheel, Resilient. M. Mathiesen. No. 1,034,475; Aug. 6; Gaz. vol. 181; p. 24.
Vehicle-wheel, Resilient. A. D. Ray. No. 1,042,035; Oct. 22; Gaz. vol. 183; p. 900.
Vehicle wheel, Road-. E. C. Horner. No. 1,017,973; Feb. 20; Sp. p. 3880; Gaz. vol. 175; p. 671.
Vehicle-wheel, Spring. E. Murray. (Reissue.) No. 13,364; Jan. 16; Sp. p. 4823; Gaz. vol. 174; p. 812.
Vehicle-wheel, Spring. C. F. Heinss. No. 1,038,576; Sept. 17; Gaz. vol. 182; p. 539.
Vehicle-wheel, Spring. C. G. Smith. No. 1,047,319; Dec. 17; Gaz. vol. 185; p. 600.
Vehicle-wheel with elastic spokes. H. Munk. No. 1,017,988; Feb. 20; Sp. p. 3911; Gaz. vol. 176; p. 676.
Vehicle wind-shield. C. M. Wright. No. 1,042,305; Oct. 22; Gaz. vol. 183; p. 988.
Vehicle-windows, Balancing device for. K. Landa. No. 1,032,149; July 9; Gaz. vol. 180; p. 489.
Vehicle with electromagnetic adherence and shiftable axles, Railway-. A. Ehrlich. No. 1,043,574; Nov. 5; Gaz. vol. 184; p. 190.
Vehicle-wrench. J. T. Sullivan. No. 1,033,211; July 23; Gaz. vol. 180; p. 934.
Vehicles and the like, Starting device for motor-. M. Demonte. No. 1,028,686; June 4; Sp. p. 1332; Gaz. vol. 179; p. 206.
Vehicles, Attachable runner for. J. H. Kuehner. No. 1,044,789; Nov. 19; Gaz. vol. 184; p. 671.
Vehicles, Auto fore-carriage for. G. E. N. I. E. Subra. No. 1,031,825; July 9; Gaz. vol. 180; p. 381.
Vehicles, Automatic regulator for steam-propelled. H. Lemp. No. 1,015,042; Jan. 16; Sp. p. 4350; Gaz. vol. 174; p. 731.
Vehicles, Automatic starter for motor-. M. T. Baird. No. 1,033,978; July 30; Gaz. vol. 180; p. 1218.
Vehicles, Combined tank-bracket and step for motor-. R. Huff. No. 1,023,848; Apr. 23; Sp. p. 4439; Gaz. vol. 177; p. 797.
Vehicles, Device for indicating the intended movements of. G. S. Matthews. No. 1,017,226; Feb. 13; Sp. p. 2229; Gaz. vol. 175; p. 379.
Vehicles, Direction-signal for motor-. W. B. Johnston. No. 1,048,702; Dec. 31; Gaz. vol. 185; p. 1141.
Vehicles, Driving means for children's. J. J. Waskom. No. 1,032,455; July 16; Gaz. vol. 180; p. 639.
Vehicles, Driving mechanism for electrically-propelled. J. Krohn. No. 1,032,068; July 9; Gaz. vol. 180; p. 463.
Vehicles, Driving mechanism for steering-wheels of motor-. W. J. Evans. No. 1,045,778; Nov. 26; Gaz. vol. 184; p. 1043.
Vehicles, Driving of rail and like. H. Pieper. No. 1,041,867; Oct. 22; Gaz. vol. 183; p. 844.
Vehicles, Electric driving-gear for motor-. W. H. Douglas. No. 1,041,449; Oct. 15; Gaz. vol. 183; p. 665.
Vehicles, Electric-lighting system for self-propelled. J. K. Delano. Jr. No. 1,027,700; May 28; Sp. p. 5710; Gaz. vol. 178; p. 995.
Vehicles, Fluid-pressure-controlling system for motor-. A. G. McGregor. No. 1,044,898; Nov. 19; Gaz. vol. 184; p. 706.
Vehicles, Grader attachment for traction-. L. S. Hackney. No. 1,031,063; July 2; Gaz. vol. 180; p. 77.
Vehicles, Heater for steering devices for motor-driven. E. D. Shannon. No. 1,042,156; Oct. 22; Gaz. vol. 183; p. 940.
Vehicles, Illuminated license-number and signal for. H. R. Wildman. No. 1,037,386; Sept. 3; Gaz. vol. 182; p. 70.
Vehicles, Lamp attachment for. G. S. Sherman. No. 1,028,144; June 4; Sp. p. 144; Gaz. vol. 179; p. 21.
Vehicles, Locking device for levers of motor-. W. J. Riddell. No. 1,043,726; Nov. 5; Gaz. vol. 184; p. 240.
Vehicles, Manufacture of pneumatic cushioning devices for road-. L. Harris. No. 1,033,010; July 16; Gaz. vol. 180; p. 826.
Vehicles, Means for braking traction-. W. E. Paine. No. 1,037,167; Aug. 27; Gaz. vol. 181; p. 1039.
Vehicles or vessels, Means for imparting to and maintaining the stability of bodies such as single-track. L. Brennan. No. 1,019,942; Mar. 12; Sp. p. 2003; Gaz. vol. 176; p. 346.
Vehicles, Perch attachment for. C. T. McCue. No. 1,029,879; June 18; Sp. p. 3963; Gaz. vol. 179; p. 689.
Vehicles, Pneumatic suspension device for. J. Williamson. No. 1,016,810; Feb. 6; Sp. p. 1287; Gaz. vol. 175; p. 197.
Vehicles, Propulsion of motor-. H. Pieper. No. 1,026,827; May 21; Sp. p. 3818; Gaz. vol. 178; p. 660.
Vehicles, Side-curtain support for. A. Loomis. No. 1,045,861; Dec. 3; Gaz. vol. 185; p. 23.
Vehicles, Side-track draft attachment for. H. Goosens. No. 1,040,930; Oct. 8; Gaz. vol. 183; p. 456.
Vehicles, Spring suspension for road-. L. Harris. No. 1,021,251; Mar. 26; Sp. p. 4774; Gaz. vol. 176; p. 871.
Vehicles, System of starting internal-combustion-engine-driven motor-. H. G. O'Neill. No. 1,047,114; Dec. 10; Gaz. vol. 185; p. 494.
Vehicles, Transmission-gearing for motor-. C. Schmidt. No. 1,013,450; Jan. 2; Sp. p. 786; Gaz. vol. 174; p. 126.
Veil. M. Donald. No. 1,020,083; Mar. 12; Sp. p. 2295; Gaz. vol. 176; p. 393.
Veil, Adjustable. L. J. Wolfe. No. 1,031,307; July 2; Gaz. vol. 180; p. 162.
Velocipede. W. H. McBarnes. No. 1,020,432; Mar. 19; Sp. p. 3019; Gaz. vol. 176; p. 547.
Velocipede. L. Rude. No. 1,039,813; Oct. 1; Gaz. vol. 183; p. 48.
Velocipede. E. J. Hansen. No. 1,040,669; Oct. 8; Gaz. vol. 183; p. 372.
Velocipede-frame. W. J. Sieffel. No. 1,028,399; June 4; Sp. p. 738; Gaz. vol. 179; p. 111.
Velocipede, Ice-. S. Chesky. No. 1,041,591; Oct. 15; Gaz. vol. 183; p. 710.
Velocipede motor attachment. A. W. Wall. No. 1,044,608; Nov. 19; Gaz. vol. 184; p. 606.
Velocipede or four-wheeled vehicle. H. Brock. No. 1,018,405; Feb. 27; Sp. p. 4809; Gaz. vol. 175; p. 852.
Velocipede spring-frame. H. A. Shelton. No. 1,016,042; Jan. 30; Sp. p. 6483; Gaz. vol. 174; p. 1128.
Velocipede spring-frame. F. Kitlitschko. No. 1,028,470; June 4; Sp. p. 896; Gaz. vol. 179; p. 135.
Velocipede-stand. K. Porzig. No. 1,042,820; Oct. 29; Gaz. vol. 183; p. 1196.
Velvet, Figuring. F. Pastor. No. 1,037,975; Sept. 10; Gaz. vol. 182; p 303.
Vender, Counter-. J. A. Phin. No. 1,039,796; Oct. 1; Gaz. vol. 183; p. 43.
Vender, Liquid-. A. Voges. No. 1,046,408; Dec. 3; Gaz. vol. 185; p. 214.
Vending and registering machine, Ticket. J. W. Small. No. 1,022,159; Apr. 2; Sp. p. 863; Gaz. vol. 177; p. 137.
Vending and registering machine, Ticket. A. J. Meier and W. L. Sullivan. No. 1,039,167; Sept. 24; Gaz. vol. 182; p. 757.
Vending and weighing machine, Combined. P. Whiting. No. 1,040,077; Oct. 1; Gaz. vol. 183; p. 136.
Vending apparatus. M. B. Pitts and J. A. Hancock. No. 1,022,753; Apr. 9; Sp. p. 2156; Gaz. vol. 177; p. 369.
Vending apparatus. F. G. Axt and B. B. Goodrich. No. 1,031,682; July 9; Gaz. vol. 180; p. 331.
Vending apparatus. C. Hänel. No. 1,034,791; Aug. 6; Gaz. vol. 181; p. 131.
Vending apparatus. T. Stocker. No. 1,044,591; Nov. 19; Gaz. vol. 184; p. 600.
Vending apparatus. H. B. Cooley. No. 1,047,388; Dec. 17; Gaz. vol. 185; p. 623.
Vending apparatus, Check or coin controlled. J. Fritsche. No. 1,039,508; Sept. 24; Gaz. vol. 182; p. 879.
Vending-bottle. S. Holland and H. H. Wister. No. 1,038,584; Sept. 17; Gaz. vol. 182; p. 542.
Vending device, Automatic gum-. E. McLaren. No. 1,031,140; July 2; Gaz. vol. 180; p. 105.
Vending device, Coin-controlled. J. R. Halloran. No. 1,022,782; Apr. 9; Sp. p. 2213; Gaz. vol. 177; p. 379.
Vending device, Liquid-. D. Kepford. No. 1,044,663; Nov. 19; Gaz. vol. 184; p. 625.
Vending elastic webbing, Reel for. F. H. Frissell. No. 1,037,465; Sept. 3; Gaz. vol. 182; p. 99.
Vending individual drinks, Apparatus for. L. G. Murnin. No. 1,017,788; Feb. 20; Sp. p. 3448; Gaz. vol. 175; p. 606.
Vending-machine. W. Millard. No. 1,013,674; Jan. 2; Sp. p. 1290; Gaz. vol. 174; p. 202.
Vending-machine. L. M. Parkhurst. No. 1,017,231; Feb. 13; Sp. p. 2237; Gaz. vol. 175; p. 381.
Vending-machine. H. E. Jones. No. 1,017,873; Feb. 20; Sp. p. 3641; Gaz. vol. 175; p. 635.
Vending-machine. W. H. Laraway. No. 1,018,507; Feb. 27; Sp. p. 5046; Gaz. vol. 175; p. 887.
Vending-machine. H. H. Brinks. No. 1,018,808; Feb. 27; Sp. p. 5731; Gaz. vol. 175; p. 989.
Vending-machine. H. Miller. No. 1,018,845; Feb. 27; Sp. p. 5800; Gaz. vol. 175; p. 1002.
Vending-machine. O. Jaeger. No. 1,019,715; Mar. 5; Sp. p. 1530; Gaz. vol. 176; p. 238.
Vending-machine. M. Elzas. No. 1,020,403; Mar. 19; Sp. p. 2954; Gaz. vol. 176; p. 536.
Vending-machine. O. Stoltze. No. 1,020,667; Mar. 19; Sp. p. 3539; Gaz. vol. 176; p. 623.
Vending-machine. T. B. Terteling. No. 1,024,870; Apr. 30; Sp. p. 6740; Gaz. vol. 177; p. 1186.
Vending-machine. F. J. Schumann. No. 1,025,075; Apr. 30; Sp. p. 7132; Gaz. vol. 177; p. 1253.

Alphabetical list of inventions—Continued.

Vending-machine. S. R. Beal and J. D. Crandell. No. 1,025,235; May 7; Sp. p. 273; Gaz. vol. 178; p. 46.
Vending-machine. H. E. Marshall. No. 1,025,286; May 7; Sp. p. 384; Gaz. vol. 178; p. 63.
Vending-machine. A. R. Hussey. No. 1,026,166; May 14; Sp. p. 2371; Gaz. vol. 178; p. 400.
Vending-machine. T. and W. Leemann. No. 1,026,919; May 21; Sp. p. 4038; Gaz. vol. 178; p. 693.
Vending-machine. A. Rydquist. No. 1,026,927; May 21; Sp. p. 4050; Gaz. vol. 178; p. 695.
Vending-machine. N. N. Neher. No. 1,027,059; May 21; Sp. p. 4374; Gaz. vol. 178; p. 742.
Vending-machine J. H. Osborne. No. 1,027,499; May 28; Sp. p. 5299; Gaz. vol. 178; p. 928.
Vending-machine. H. W. Bowman. No. 1,028,096; June 4; Sp. p. 8; Gaz. vol. 179; p. 4.
Vending-machine. C. G. Hassmann. No. 1,028,458; June 4; Sp. p. 872; Gaz. vol. 179; p. 131.
Vending-machine. M. Elzas. No. 1,029,113; June 11; Sp. p. 2267; Gaz. vol. 179; p. 387.
Vending-machine. M. Sielaff. No. 1,032,629; July 16; Gaz. vol. 180; p. 697.
Vending-machine. C. C. Cawley. No. 1,032,989; July 16; Gaz. vol. 180; p. 819.
Vending-machine. H. S. Mills. No. 1,038,178; Sept. 10; Gaz. vol. 182; p. 368.
Vending-machine. G. J. Tubergen. No. 1,038,236; Sept. 10; Gaz. vol. 182; p. 387.
Vending-machine. G. W. Evans and C. E. Logan. No. 1,038,330; Sept. 10; Gaz. vol. 182; p. 419.
Vending-machine. L. K. Mearkle. No. 1,038,622; Sept. 17; Gaz. vol. 182; p. 556.
Vending-machine. G. Pleoger. No. 1,038,648; Sept. 17; Gaz. vol. 182; p. 565.
Vending-machine. N. I. Sheehan. No. 1,038,668; Sept. 17; Gaz. vol. 182; p. 571.
Vending-machine. L. Neumayer. No. 1,039,580; Sept. 24; Gaz. vol. 182; p. 904.
Vending-machine. J. A. Noel. No. 1,042,254; Oct. 22; Gaz. vol. 183; p. 971.
Vending-machine. S. L. W. Coe and H. T. Werden. No. 1,042,768; Oct. 29; Gaz. vol. 183; p. 1179.
Vending-machine. C. A. Melchert. No. 1,044,682; Nov. 19; Gaz. vol. 184; p. 632.
Vending-machine. C. A. Melchert. No. 1,044,683; Nov. 19; Gaz. vol. 184; p. 632.
Vending-machine. C. C. Clawson. No. 1,045,514; Nov. 26; Gaz. vol. 184; p. 951.
Vending-machine. W. G. Moffet. No. 1,047,549; Dec. 17; Gaz. vol. 185; p. 679.
Vending-machine. F. J. Schumann. No. 1,048,103; Dec. 24; Gaz. vol. 185; p. 898.
Vending-machine, Automatic. G. D. Sbrum. No 1,046,502; Dec. 10; Gaz. vol. 185; p. 284.
Vending machine, Automatic gasolene-. R. Shaffer. No. 1,019,372; Mar. 5; Sp. p. 850; Gaz. vol. 176; p. 127.
Vending machine, Bottle-. W. H. Herman. No. 1,025,978; May 14; Sp. p. 1934; Gaz. vol. 178; p. 334.
Vending machine, Card-. B. S. Wallick. No. 1,017,830; Feb. 20; Sp. p. 3529; Gaz. vol. 175; p. 620.
Vending machine, Cigar-. F. L. Straight. No. 1,049,168; Dec. 31; Gaz. vol. 185; p. 1299.
Vending-machine coin-actuated mechanism. G. W. Miller. No. 1,046,099; Dec. 3; Gaz. vol. 185; p. 103.
Vending-machine coin-chute. H. S. Mills. No. 1,029,209; June 11; Sp. p. 2466; Gaz. vol. 179; p. 420.
Vending-machine, Coin-controlled. C. A. Melchert. No. 1,014,016; Jan. 9; Sp. p. 2071; Gaz. vol. 174; p. 349.
Vending-machine, Coin-controlled. S. D. Polsen and I. Elson. No. 1,015,709; Jan. 23; Sp. p. 5777; Gaz. vol. 174; p. 985.
Vending-machine, Coin-controlled. G. L. Van Buren. No. 1,020,000; Mar. 12; Sp. p. 2121; Gaz. vol. 176; p. 365.
Vending-machine, Coin-controlled. C. C. Clawson. No. 1,020,966; Mar. 26; Sp. p. 4175; Gaz. vol. 176; p. 776.
Vending-machine, Coin-controlled. K. A. Ohman. No. 1,034,027; July 30; Gaz. vol. 180; p. 1236.
Vending-machine, Coin-controlled. J. J. Shea. No. 1,037,552; Sept. 3; Gaz. vol. 182; p. 127.
Vending-machine, Coin-controlled. R. O. Lenz. No. 1,039,970; Oct. 1; Gaz. vol. 183; p. 100.
Vending-machine, Coin-controlled. P. Amadeo. No. 1,044,622; Nov. 19; Gaz. vol. 184; p. 610.
Vending-machine, Coin-controlled. C. C. Clawson. No. 1,048,660; Dec. 31; Gaz. vol. 185; p. 1126.
Vending machine, Coin-controlled cigar-. G. L. Van Buren. No. 1,024,478; Apr. 23; Sp. p. 5825; Gaz. vol. 177; p. 1012.
Vending-machine coin-controlled device. H. S. Mills. No. 1,014,320; Jan. 9; Sp. p. 2729; Gaz. vol. 174; p. 455.
Vending machine, Coin-controlled stamp or ticket. B. L. Zaerr and C. W. Hamlin. No. 1,014,278; Jan. 9; Sp. p. 2639; Gaz. vol. 174; p. 440.
Vending-machine, Coin or check controlled. W. J. Morse. No. 1,021,723; Mar. 26; Sp. p. 5745; Gaz. vol. 176; p. 1032.
Vending machine, Cup-. R. Robbins. No. 1,023,097; Apr. 9; Sp. p. 2855; Gaz. vol. 177; p. 486.
Vending machine, Liquid-perfumery-. P. Povlotzky. No. 1,032,423; July 16; Gaz. vol. 180; p. 629.
Vending machine, Newspaper-. B. Johnson. No. 1,022,680; Apr. 9; Sp. p. 1964; Gaz. vol. 177; p. 341.
Vending machine, Perfume-. A. F. Vorce. No. 1,020,334; Mar. 12; Sp. p. 2801; Gaz. vol. 176; p. 475.
Vending machine, Stamp-. J. F. Kinney. No. 1,023,020; Apr. 9; Sp. p. 2693; Gaz. vol. 177; p. 460.
Vending machine, Stamp-. M. Lunde and L. P. Cardell. No. 1,043,446; Nov. 5; Gaz. vol. 184; p. 143.
Vending machine, Stamp-. E. H. Sperberg. No. 1,044,281; Nov. 12; Gaz. vol. 184; p. 463.
Vending-machines, Coin-controlling mechanism for. C. A. Dawes. No. 1,044,629; Nov. 19; Gaz. vol. 184; p. 613.
Vending-machines, Delivery-protector for. H. S. Mills. No. 1,024,140; Apr. 23; Sp. p. 5104; Gaz. vol. 177; p. 898.
Veneer-barrel-making machine. W. J. Ott. No. 1,022,970; Apr. 9; Sp. p. 2605; Gaz. vol. 177; p. 443.
Veneer barrels, Apparatus for assembling. W. C. Cummings. No. 1,020,687; Mar. 19; Sp. p. 3578; Gaz. vol. 176; p. 630.
Veneer box. O. C. Fenlason. No. 1,047,024; Dec. 10; Gaz. vol. 185; p. 462.
Veneer-driers, Feed-rolls for. H. Coulston. No. 1,016,737; Feb. 6; Sp. p. 1133; Gaz. vol. 175; p. 174.
Veneer-drying apparatus. L. G. Merritt. No. 1,022,690; Apr. 9; Sp. p. 1991; Gaz. vol. 177; p. 345.
Veneer panel, Metal-reinforced. E. Tyden. No. 1,035,924; Aug. 20; Gaz. vol. 181; p. 583.
Veneer-press. W. S. Craig. No. 1,025,377; May 7; Sp. p. 605; Gaz. vol. 178; p. 94.
Veneer-press for manufacturers of woodworking material. C. E. Francis. No. 1,016,258; Feb. 6; Sp. p. 32; Gaz. vol. 175; p. 7.
Veneer-sorting machine. O. C. Fenlason. No. 1,014,819; Jan. 16; Sp. p. 3847; Gaz. vol. 174; p. 654.
Veneer-taping machine. W. J. Kelly. No. 1,022,092; Apr. 2; Sp. p. 721; Gaz. vol. 177; p. 115.
Veneer-taping machine. J. M. Davis. No. 1,045,529; Nov. 26; Gaz. vol. 184; p. 957.
Veneering-tape. G. Goodsir, Jr. No. 1,038,874; Sept. 17; Gaz. vol. 182; p. 644.
Venereal bag. W. H. Merrill. No. 1,014,837; Jan. 16; Sp. p. 3906; Gaz. vol. 174; p. 662.
Vent-box. G. H. Backmire. No. 1,037,104; Aug. 27; Gaz. vol. 181; p. 1019.
Ventilating and perfuming device. P. Killpatrick. No. 1,032,912; July 16; Gaz. vol. 180; p. 794.
Ventilating and station-annunciating means, Combined. S. D. Upham. No. 1,017,710; Feb. 20; Sp. p. 3215; Gaz. vol. 175; p. 578.
Ventilating apparatus. C. H. Gifford. No. 1,019,780; Mar. 12; Sp. p. 1672; Gaz. vol. 176; p. 292.
Ventilating apparatus. F. J. McMurdie. No. 1,019,818; Mar. 12; Sp. p. 1739; Gaz. vol. 176; p. 304.
Ventilating apparatus. R. Carroll. No. 1,039,025; Sept. 17; Gaz. vol. 182; p. 693.
Ventilating apparatus. M. W. Griswold. No. 1,045,835; Dec. 3; Gaz. vol. 185; p. 14.
Ventilating device. J. Leslie. No. 1,031,456; July 2; Gaz. vol. 180; p. 211.
Ventilating device. F. P. Mies. No. 1,038,625; Sept. 17; Gaz. vol. 182; p. 558.
Ventilating device. A. Malinovszky. No. 1,047,960; Dec. 24; Gaz. vol. 185; p. 851.
Ventilating device. F. Gerard. No. 1,048,064; Dec. 24; Gaz. vol. 185; p. 884.
Ventilating system. H. B. Leeming. No. 1,027,740; May 28; Sp. p. 5783; Gaz. vol. 178; p. 1008.
Ventilating system. E. M. Surprise. No. 1,033,963; July 30; Gaz. vol. 180; p. 1212.
Ventilator: *See* Antiseptic ventilator; Car-ventilator; House-ventilator; Refrigerator-car ventilator; Stove-pipe-ventilator; Water-closet ventilator; Wind-operated ventilator; Window-ventilator.
Ventilator. F. J. Schumacher. No. 1,013,322; Jan. 2; Sp. p. 522; Gaz. vol. 174; p. 82.
Ventilator. E. Gagnon. No. 1,017,402; Feb. 13; Sp. p. 2591; Gaz. vol. 175; p. 438.
Ventilator. C. E. Reitz. No. 1,018,585; Feb. 27; Sp. p. 5267; Gaz. vol. 175; p. 915.
Ventilator. W. Lintern. No. 1,024,861; Apr. 30; Sp. p. 6718; Gaz. vol. 177; p. 1183.
Ventilator. G. R. Siefken. No. 1,026,471; May 14; Sp. p. 3047; Gaz. vol. 178; p. 503.
Ventilator. J. Keith. No. 1,028,221; June 4; Sp. p. 360; Gaz. vol. 179; p. 50.
Ventilator. A. G. Wilson. No. 1,028,518; June 4; Sp. p. 999; Gaz. vol. 179; p. 151.
Ventilator. R. T. Senter and L. A. Kling. No. 1,036,352; Aug. 20; Gaz. vol. 181; p. 733.
Ventilator. T. H. Garland. No. 1,037,890; Sept. 10; Gaz. vol. 182; p. 271.
Ventilator. R. T. Senter and L. A. Kling. No. 1,039,201; Sept. 24; Gaz. vol. 182; p. 770.
Ventilator. J. N. Cohen. No. 1,042,399; Oct. 29; Gaz. vol. 183; p. 1047.
Ventilator. W. J. Lindemeyer. No. 1,042,575; Oct. 29; Gaz. vol. 183; p. 1111.
Ventilator. J. H. Otten. No. 1,044,565; Nov. 19; Gaz. vol. 184; p. 590.

Alphabetical list of inventions—Continued.

Ventilator. G. W. Dunham. No. 1,045,776; Nov. 26; Gaz. vol. 184; p. 1043.
Ventilator. F. L. Hunt. No. 1,047,638; Dec. 17; Gaz. vol. 185; p. 711.
Ventilator and chimney-cap. R. T. Merrill. No. 1,037,286; Sept. 3; Gaz. vol. 182; p. 36.
Ventilator and deflector. T. T. Peddy. No. 1,019,696; Mar. 5; Sp. p. 1495; Gaz. vol. 176; p. 232.
Ventilator and draft-regulator. W. P. Randall. No. 1,042,600; Oct. 29; Gaz. vol. 183; p. 1120.
Vermin-exterminating compound. G. A. H. Muller. No. 1,015,701; Jan. 23; Sp. p. 5764; Gaz. vol. 174; p. 982.
Vermin-trap. J. E. Frey. No. 1,020,690; Mar. 19; Sp. p. 3584; Gaz. vol. 176; p. 631.
Vermin-trap. J. Andel. No. 1,048,479; Dec. 31; Gaz. vol. 185; p. 1062.
Vertical engine. L. Bollée. No. 1,027,807; May 28; Sp. p. 5931; Gaz. vol. 178; p. 1030.
Vessel-closure. M. Takahashi. No. 1,014,536; Jan. 9; Sp. p. 3163; Gaz. vol. 174; p. 527.
Vessel-closure. J. Conley. No. 1,029,424; June 11; Sp. p. 2958; Gaz. vol. 179; p. 495.
Vessel-closure. G. W. Beadle. No. 1,031,615; July 2; Gaz. vol. 180; p. 265.
Vessel-closure. H. A. Stipens. No. 1,034,321; July 30; Gaz. vol. 180; p. 1336.
Vessel-closure. H. E. Bryant. No. 1,038,279; Sept. 10; Gaz. vol. 182; p. 403.
Vessel-closures, Machine for affixing. A. B. Starr. No. 1,038,983; Sept. 17; Gaz. vol. 182; p. 680.
Vessel end closures, Making removable. G. W. Beadle. No. 1,016,390; Feb. 6; Sp. p. 342; Gaz. vol. 175; p. 54.
Vessel for liquefied gases, Metallic. C. W. P. Heylandt. No. 1,033,398; July 23; Gaz. vol. 180; p. 997.
Vessel-loading apparatus. J. T. Clark. No. 1,013,928; Jan. 9; Sp. p. 1880; Gaz. vol. 174; p. 320.
Vessel, Marine. A. C. Dam. No. 1,047,758; Dec. 17; Gaz. vol. 185; p. 754.
Vessel, Mechanism for controlling the position of the direction-lever of a motor-driven. A. Winton. No. 1,046,529; Dec. 10; Gaz. vol. 185; p. 294.
Vessel, Metallic. L. O. Brown. No. 1,037,202; Sept. 3; Gaz. vol. 182; p. 8.
Vessel multiple-hatch construction. E. S. Hough. No. 1,033,403; July 23; Gaz. vol. 180; p. 999.
Vessel-protecting device. A. A. Quinn. No. 1,045,081; Nov. 19; Gaz. vol. 184; p. 769.
Vessel-rack. A. Kaufman. No. 1,017,102; Feb. 13; Sp. p. 1953; Gaz. vol. 175; p. 336.
Vessel-raising apparatus, Sunken-. J. and J. Grant, Jr. No. 1,041,995; Oct. 22; Gaz. vol. 183; p. 887.
Vessel-raising device. B. J. Spencer. No. 1,025,930; May 7; Sp. p. 1832; Gaz. vol. 178; p. 283.
Vessel-raising device, Sunken-submarine-. H. Aronsen. No. 1,030,701; June 25; Sp. p. 5949; Gaz. vol. 179; p. 1016.
Vessel, Sailing. J. E. Hagborg. No. 1,039,122; Sept. 24; Gaz. vol. 182; p. 742.
Vessel, Self-propelled. A. and A. M. McDougall. No. 1,022,250; Apr. 2; Sp. p. 1054; Gaz. vol. 177; p. 168.
Vessel, Spouted. J. Koenig. No. 1,032,841; July 16; Gaz. vol. 180; p. 771.
Vessel, War. H. Maxim. No. 1,028,472; June 4; Sp. p. 906; Gaz. vol. 179; p. 136.
Vessel with metallic end closures, Double-walled. A. B. Starr. No. 1,027,924; May 28; Sp. p. 6236; Gaz. vol. 178; p. 1071.
Vessels and similar articles, Device for closing or capping. M. Dickinson. No. 1,048,394; Dec. 24; Gaz. vol. 185; p. 996.
Vessels, Automatic controlling means for submarine. H. W. Shonnard. No. 1,022,706; Apr. 9; Sp. p. 2039; Gaz. vol. 177; p. 353.
Vessels, Construction of floating. J. W. Isherwood. No. 1,029,546; June 11; Sp. p. 3194; Gaz. vol. 179; p. 536.
Vessels, Device for raising sunken. O. Guyor and F. E. Banker. No. 1,039,276; Sept. 24; Gaz. vol. 182; p. 798.
Vessels, Exhausting. C. J. Thatcher. No. 1,028,636; June 4; Sp. p. 1236; Gaz. vol. 179; p. 190.
Vessels, Inside closure for air, steam, or water tight. C. W. Shields. No. 1,015,847; Jan. 30; Sp. p. 6063; Gaz. vol. 174; p. 1058.
Vessels, Lifting-frame for storage. J. P. Voelker. No. 1,024,956; Apr. 30; Sp. p. 6916; Gaz. vol. 177; p. 1215.
Vessels, Locking slip-closure for. G. W. Beadle. No. 1,027,233; May 21; Sp. p. 4758; Gaz. vol. 178; p. 800.
Vessels, Message-carrier for. F. J. Meno. No. 1,013,607; Jan. 2; Sp. p. 1112; Gaz. vol. 174; p. 179.
Vessels, Permanently applying end closures to. G. W. Beadle. No. 1,044,976; Nov. 19; Gaz. vol. 184; p. 733.
Vessels, Removably applying end closures to. G. W. Beadle. No. 1,035,305; Aug. 13; Gaz. vol. 181; p. 335.
Vessels, Safety-weight for submarine. M. A. Laubeuf. No. 1,035,021; Aug. 6; Gaz. vol. 181; p. 206.
Vessels, Slide-closure for. A. Mlitz. No. 1,020,772; Mar. 19; Sp. p. 3768; Gaz. vol. 176; p. 660.
Vest. F. T. Matthews. No. 1,031,078; July 2; Gaz. vol. 180; p. 81.
Vest, Reversible. W. Pressman. No. 1,047,700; Dec. 17; Gaz. vol. 185; p. 734.
Veterinarian's castrating-knife. E. L. Watson. No. 1,037,693; Sept. 3; Gaz. vol. 182; p. 174.
Veterinary instrument. J. E. Carter. No. 1,031,244; July 2; Gaz. vol. 180; p. 140.
Veterinary instrument. S. Olson. No. 1,040,394; Oct. 8; Gaz. vol. 183; p. 273.
Veterinary obstetrical instrument. W. E. Norden. No. 1,048,728; Dec. 31; Gaz. vol. 185; p. 1149.
Viaduct, Arch-. D. B. Luten. No. 1,027,742; May 28; Sp. p. 5786; Gaz. vol. 178; p. 1008.
Vials and the like, Machine for making. W. R. Burrows. No. 1,024,116; Apr. 23; Sp. p. 5040; Gaz. vol. 177; p. 890.
Vibrating rectifier. J. T. Dempster. No. 1,019,608; Mar. 5; Sp. p. 1338; Gaz. vol. 176; p. 202.
Vibration-recorder. W. H. Brown. No. 1,039,093; Sept. 24; Gaz. vol. 182; p. 732.
Vibration stop-governor. J. E. Snyder. No. 1,023,886; Apr. 23; Sp. p. 4521; Gaz. vol. 177; p. 810.
Vibrator. H. Behm. No. 1,025,236; May 7; Sp. p. 279; Gaz. vol. 178; p. 46.
Vibrator and vacuum apparatus, Combined. J. and W. Birrell. No. 1,025,504; May 7; Sp. p. 887; Gaz. vol. 178; p. 138.
Vibrator, Mechanical. J. Koch. No. 1,013,782; Jan. 2; Sp. p. 1521; Gaz. vol. 174; p. 241.
Vibrator-movement, Electroresponsive. C. H. Rettmann. No. 1,038,438; Sept. 10; Gaz. vol. 182; p. 458.
Vibrator, Spray-. J. G. F. Reuter. No. 1,038,656; Sept. 17; Gaz. vol. 182; p. 567.
Vibrator, Therapeutic. E. H. Amet. No. 1,017,840; Feb. 20 Sp. p. 3558; Gaz. vol. 175; p. 624.
Viewing device. K. M. Stahl. No. 1,019,853; Mar. 12; Sp. p. 1805; Gaz. vol. 176; p. 316.
Vignetting device, Hand. S. S. Loeb. No. 1,043,327; Nov. 5; Gaz. vol. 184; p. 101.
Vine clipper, Sweet-potato-. J. F. Miller. No. 1,040,234; Oct. 1; Gaz. vol. 183; p. 187.
Vines, Device for winding artificial. C. L. Hulsizer. No. 1,017,626; Feb. 13; Sp. p. 3038; Gaz. vol. 175; p. 513.
Violin. E. G. Shaw. No. 1,042,287; Oct. 22; Gaz. vol. 183; p. 982.
Violin. G. J. Junker. No. 1,043,015; Oct. 29; Gaz. vol. 183; p. 1263.
Violin. W. Francis. No. 1,048,449; Dec. 24; Gaz. vol. 185; p. 1014.
Violin-bow, Folding. J. D. Adams. No. 1,027,636; May 28; Sp. p. 5568; Gaz. vol. 178; p. 973.
Violin-bridge. T. Harding. No. 1,041,465; Oct. 15; Gaz. vol. 183; p. 671.
Violin chin-rest. R. S. Williams. No. 1,023,234; Apr. 16; Sp. p. 3192; Gaz. vol. 177; p. 571.
Violin, Electric self-playing. H. K. Sandell. No. 1,028,495; June 4; Sp. p. 951; Gaz. vol. 179; p. 143.
Violin, Electric self-playing. H. K. Sandell. No. 1,031,292; July 2; Gaz. vol. 180; p. 156.
Violin, Self-playing. J. Wauters. No. 1,018,384; Feb. 20; Sp. p. 4746; Gaz. vol. 175; p. 813.
Violins, Expression device for mechanically-operated. G. K. Hennig. No. 1,025,397; May 7; Sp. p. 646; Gaz. vol. 178; p. 101.
Violins, Tone-modifying device for automatic. J. Wauters. No. 1,042,513; Oct. 29; Gaz. vol. 183; p. 1089.
Viscous liquid material, Making a. L. S. Van Westrum. No. 1,016,801; Feb. 6; Sp. p. 1269; Gaz. vol. 175; p. 195.
Viscous material, Implement for holding and spreading. L. Clark. No. 1,017,957; Feb. 20; Sp. p. 3840; Gaz. vol. 175; p. 666.
Vise. W. R. Buchanan. No. 1,017,131; Feb. 13; Sp. p. 2008; Gaz. vol. 175; p. 345.
Vise. A. L. De Leeuw. No. 1,018,035; Feb. 20; Sp. p. 4004; Gaz. vol. 175; p. 693.
Vise. J. H. Reeder. No. 1,018,630; Feb. 27; Sp. p. 5352; Gaz. vol. 175; p. 928.
Vise. T. T. Merriman and B. F. Peart. No. 1,019,682; Mar. 5; Sp. p. 1477; Gaz. vol. 176; p. 228.
Vise. J. B. Dade. No. 1,020,192; Mar. 12; Sp. p. 2534; Gaz. vol. 176; p. 430.
Vise. H. S. Kuhn. No. 1,022,953; Apr. 9; Sp. p. 2572; Gaz. vol. 177; p. 437.
Vise. C. J. Jackson. No. 1,024,728; Apr. 30; Sp. p. 6439; Gaz. vol. 177; p. 1135.
Vise. L. Viezzi. No. 1,027,941; May 28; Sp. p. 6264; Gaz. vol. 178; p. 1076.
Vise. R. W. and L. H. Bateman. (Reissue.) No. 13,431; June 25; Sp. p. 6451; Gaz. vol. 179; p. 1075.
Vise. S. French and D. T. Bates. No. 1,037,231; Sept. 3; Gaz. vol. 182; p. 19.
Vise. M. Hogle. No. 1,037,626; Sept. 3; Gaz. vol. 182; p. 150.
Vise. A. Vanderbeek. No. 1,039,337; Sept. 24; Gaz. vol. 182; p. 819.
Vise. J. Raes. No. 1,045,745; Nov. 26; Gaz. vol. 184; p. 1032.
Vise. G. P. Blackiston. No. 1,048,643; Dec. 31; Gaz. vol. 185; p. 1119.
Vise. H. C. Woodstock. No. 1,049,024; Dec. 31; Gaz. vol. 185; p. 1252.
Vise and holder therefor, Hand-. H. Kindstrand. No. 1,030,242; June 18; Sp. p. 4724; Gaz. vol. 179; p. 813.

Alphabetical list of inventions—Continued.

Vise and pipe-wrench, Combination. D. G. Hewitt. No 1,026,036; May 14; Sp. p. 2071; Gaz. vol. 178; p. 354.
Vise attachment, Holding-. C. H. A. Davis. No. 1,025,739; May 7; Sp. p. 1397; Gaz. vol. 178; p. 218.
Vise, Bench-. A. L. Bemis. No. 1,034,568; Aug. 6; Gaz. vol. 181; p. 56.
Vise, Bench-. C. E. Shields. No. 1,036,155; Aug. 20; Gaz. vol. 181; p. 663.
Vise, &c., Chain pipe-. G. Amborn. No. 1,040,603; Oct. 8; Gaz. vol. 183; p. 347.
Vise, Foot-power. G. E. Callaway. No. 1,039,646; Sept. 24; Gaz. vol. 182; p. 926.
Vise, Horseshoer's foot-. A. D. Smith. No. 1,018,380; Feb. 20; Sp p. 4736; Gaz. vol. 175; p. 811.
Vise-jaws, Face for. H. Rorig. No. 1,048,100; Dec. 24; Gaz. vol. 185; p. 897.
Vise or chuck or like machine. W. F. Budlong. No. 1,017,846; Feb. 20; Sp. p. 3572; Gaz. vol. 175; p. 626.
Vise, Pipe-. E. S. Stack. No. 1,046,120; Dec. 3; Gaz. vol. 185; p. 110.
Vise support, Bench-. C. E. Shields. No. 1,019,540; Mar. 5; Sp. p. 1216; Gaz. vol. 176; p. 180.
Vise, Tilting. F. A. Schulz. No. 1,042,611; Oct. 29; Gaz. vol. 183; p. 1124.
Visible signal. J. C. James. No. 1,015,565; Jan. 23; Sp. p. 5460; Gaz. vol. 174; p. 935.
Vitascope. P. J. Mukautz. No. 1,033,608; July 23; Gaz. vol. 180; p. 1066.
Vizor, eye-shade, and advertising device, Sun-. F. M. Haggerty. No. 1,030,173; June 18; Sp. p. 4563; Gaz. vol. 179; p. 789.
Voltage compensating and regulating means. P. O. Keilholtz and F. E. Ricketts. No. 1,041,482; Oct. 15; Gaz. vol. 183; p. 677.
Voltage protective device, High-. N. J. Conrad and E. O. Schweitzer. No. 1,033,384; July 23; Gaz. vol. 180; p. 993.
Voltage-reducer. W. A. Hesse and J. T. Slaven. No. 1,019,641; Mar. 5; Sp. p. 1400; Gaz. vol. 176; p. 215.
Voltage-regulating system. R. P. Jackson. No. 1,018,322; Feb. 20; Sp. p. 4609; Gaz. vol. 175; p. 791.
Voltage-regulator. R. P. Jackson. No. 1,017,670; Feb. 20; Sp. p. 3141; Gaz. vol. 175; p. 566.
Voltage transformation. M. R. Hanna. No. 1,026,391; May 14; Sp. p. 2876; Gaz. vol. 178; p. 477.
Voltage with variable speed, Apparatus for producing a constant. H. Grob. No. 1,016,825; Feb. 6; Sp. p. 1313; Gaz. vol. 175; p. 202.
Voltmeter, Electrostatic. J. C. Hubbard. No. 1,042,440; Oct. 29; Gaz. vol. 183; p. 1063.
Voting device, Independent-. C. H. Ocumpaugh. No. 1,013,853; Jan. 2; Sp. p. 1686; Gaz. vol. 174; p. 266.
Voting-machine. J. H. Dean. No. 1,013,646; Jan. 2; Sp. p. 1207; Gaz. vol. 174; p. 193.
Voting-machine. C. H. Ocumpaugh. No. 1,013,679; Jan. 2; Sp. p. 1304; Gaz. vol. 174; p. 204.
Voting-machine. C. H. Ocumpaugh. No. 1,013,680; Jan. 2; Sp. p. 1320; Gaz. vol. 174; p. 205.
Voting-machine. W. H. Dana. No. 1,016,553; Feb. 6; Sp. p. 754; Gaz. vol. 175; p. 111.
Voting-machine. J. H. Dean. No. 1,024,123; Apr. 23; Sp. p. 5065; Gaz. vol. 177; p. 892.
Voting-machine. C. H. Lee. No 1,025,632; May 7; Sp. p. 1179; Gaz. vol. 178; p. 181.
Voting-machine. J. A. Butler. No. 1,028,838; June 4; Sp. p. 1652; Gaz. vol. 179; p. 258.
Voting-machine. A. McKenzie. No. 1,031,139; July 2; Gaz. vol. 180; p. 103.
Voting-machine. H. C. H. Cooper. No. 1,031,170; July 2; Gaz. vol. 180; p. 114.
Voting-machine. J. H. Dean. No. 1,031,171; July 2; Gaz. vol. 180; p. 114.
Voting-machine. J. H. Dean. No. 1,036,464; Aug. 20; Gaz. vol. 181; p. 771.
Voting-machine. W. A. Swaren. No. 1,038,680; Sept. 17; Gaz. vol. 182; p. 576.
Voting-machine. J. C. Wilson. No. 1,038,810; Sept. 17; Gaz. vol. 182; p. 622.
Voting-machine. C. W. Bowron. No. 1,043,292; Nov. 5; Gaz. vol. 184; p. 87.
Voting-machine. J. H. McElroy. No. 1,044,799; Nov. 19; Gaz. vol. 184; p. 673.
Voting-machine key. C. C. Abbott. No. 1,013,355; Jan. 2; Sp. p 590; Gaz. vol. 174; p. 94.
Voting-machine-locking device. J. A. Butler. No. 1,028,837; June 4; Sp. p. 1651; Gaz. vol. 179; p. 258.
Voting-machine, Multiplex. S. Loe. No. 1,039,419; Sept. 24; Gaz. vol. 182; p. 847.
Voting machines, Interlocking mechanism for party-column-. F. M. Wright. No. 1,032,526; July 16; Gaz. vol. 180; p. 662.
Voting-machines, Primary-election lock-out for. W. J. Lausterer. No. 1,036,276; Aug. 20; Gaz. vol. 181; p. 707.
Vulcanization E. Taylor. No. 1,017,926; Feb. 20; Sp. p. 3775; Gaz. vol. 175; p. 656.
Vulcanized froth from india-rubber, gutta-percha, and balata, Manufacturing hot. F. Pfleumer. No. 1,038,950; Sept. 17; Gaz. vol. 182; p. 670.
Vulcanizer. A. Adamson. No. 1,013,716; Jan. 2; Sp. p. 1383; Gaz. vol. 174; p. 217.
Vulcanizer. C. C. Evans. No. 1,023,727; Apr. 16; Sp. p. 4149; Gaz. vol. 177; p. 728.
Vulcanizer. A. C. Hopkins and H. M. Morgan. No. 1,029,684; June 18; Sp. p. 3503; Gaz. vol. 179; p. 621.
Vulcanizer, F. W. Bacon. No. 1,031,831; July 9; Gaz. vol. 180; p. 383.
Vulcanizer. E. C. McGraw. No. 1,039,308; Sept. 24; Gaz. vol. 182; p. 810.
Vulcanizer. E. C. McGraw. No. 1,039,309; Sept. 24; Gaz. vol. 182; p. 810.
Vulcanizer. I. E. Steele. No. 1,043,167; Nov. 5; Gaz. vol. 184; p. 44.
Vulcanizer. B. R. Barder. No. 1,044,474; Nov. 19; Gaz. vol. 184; p. 558.
Vulcanizer, Dry-heat. H. M. Detrick. No. 1,017,284; Feb. 13; Sp. p. 2338; Gaz. vol. 175; p. 398.
Vulcanizer, Electrically-generated steam-. A. C. Hulbert. No. 1,047,060; Dec. 10; Gaz. vol. 185; p. 474.
Vulcanizer, Portable steam-. E. A. Stier and R. C. Byrd. No. 1,026,229; May 14; Sp. p. 2526; Gaz. vol. 178; p. 422.
Vulcanizer, Steam-. A. M. Baugh. No. 1,038,519; Sept. 17; Gaz. vol. 182; p. 520.
Vulcanizers, Quick-opening door for. J. K. Williams. No. 1,014,192; Jan. 9; Sp. p. 2441; Gaz. vol. 174; p. 410.
Vulcanizing-mold. W. A. McCool. No. 1,019,506; Mar. 5; Sp. p. 1155; Gaz. vol. 176; p. 170.
Vulcanizing-mold. A. Adamson. No. 1,037,187; Sept. 3; Gaz. vol. 182; p. 3.
Vulcanizing vulcanizable articles. W. W. Duncan and N. E. Tousley. No. 1,048,138; Dec. 24; Gaz. vol. 185; p. 910.
Wafer-cutting machine. F. M. Peters. No. 1,016,439; Feb. 6; Sp. p. 464; Gaz. vol. 175; p. 71.
Wagon. M. Van Pelt. No. 1,014,540; Jan. 9; Sp. p. 3168; Gaz. vol. 174; p. 527.
Wagon. J. K. Collins. No. 1,027,820; May 28; Sp. p. 5964; Gaz. vol. 178; p. 1035.
Wagon, Ammunition-. E. Steinhart. No. 1,038,453; Sept. 10; Gaz. vol. 182; p. 465.
Wagon, Asphalt-melting. H. M. Kingsley. No. 1,021,781; Apr. 2; Sp. p. 52; Gaz. vol. 177; p. 12.
Wagon attachment, Log-. J. H. Anthony. No. 1,021,292; Mar. 26; Sp. p. 4855; Gaz. vol. 176; p. 886.
Wagon-bed. L. B. Griffin. No. 1,043,824; Nov. 12; Gaz. vol. 184; p. 304.
Wagon-body. W. E. Brelsford. No. 1,022,296; Apr. 2; Sp. p. 1137; Gaz. vol. 177; p. 182.
Wagon-body attachment. G. F. Edgington. No. 1,014,579; Jan. 9; Sp. p. 3244; Gaz. vol. 174; p. 541.
Wagon-body cover. D. H. Sanders. No. 1,035,245; Aug. 13; Gaz. vol. 181; p. 313.
Wagon-body extension. C. H. De Wolfe. No. 1,028,100; June 4; Sp. p. 17; Gaz. vol. 179; p. 5.
Wagon-body-handling apparatus. J. M. Etmian. No. 1,040,177; Oct. 1; Gaz. vol. 183; p. 169.
Wagon-body, Loading and discharging. C. R. Tansill. No. 1,038,230; Sept. 10; Gaz. vol. 182; p. 385.
Wagon bolster-spring. N. L. Holmes. No. 1,026,746; May 21; Sp. p. 3637; Gaz. vol. 178; p. 632.
Wagon-bolsters, Stake or standard for. O. J. A. Smith. No. 1,028,621; June 4; Sp. p. 1208; Gaz. vol. 179; p. 185.
Wagon-bottom and metal framework therefor. E. D. Ainsworth. No. 1,015,467; Jan. 23; Sp. p. 5263; Gaz. vol. 174; p. 902.
Wagon-box. E. A. Saltzman and E. Krabill. No. 1,022,266; Apr. 2; Sp. p. 1081; Gaz. vol. 177; p. 173.
Wagon-box. S. A. Covell. No. 1,034,587; Aug. 6; Gaz. vol. 181; p. 62.
Wagon-box. G. Weitzel. No. 1,038,247; Sept. 10; Gaz. vol. 182; p. 391.
Wagon-box. J. H. Fields. No. 1,042,661; Oct. 29; Gaz. vol. 183; p. 1142.
Wagon-box attachment. L. Onsrud. No. 1,034,028; July 30; Gaz. vol. 180; p. 1237.
Wagon-box lift. S. D. Bassford. No. 1,014,743; Jan. 16; Sp. p. 3681; Gaz. vol. 174; p. 629.
Wagon-box rain-cover. G. S. Sowers. No. 1,031,206; July 2; Gaz. vol. 180; p. 127.
Wagon-brake. T. N. Moore. No. 1,019,176; Mar. 5; Sp. p. 381; Gaz. vol. 176; p. 60.
Wagon-brake. E. Spires. No. 1,020,851; Mar. 19; Sp. p. 3944; Gaz. vol. 176; p. 687.
Wagon-brake. J. T. Rogers. No. 1,035,910; Aug. 20; Gaz. vol. 181; p. 579.
Wagon-brake. J. P. Hise. No. 1,045,978; Dec. 3; Gaz. vol. 185; p. 62.
Wagon, Child's. H. D. Fields. No. 1,020,895; Mar. 19; Sp. p. 4013; Gaz. vol. 176; p. 700.
Wagon, Coal-. T. Wright. No. 1,019,211; Mar. 5; Sp. p. 452; Gaz. vol. 176; p. 72.
Wagon-controlling means, Dumping-. A. T. Bossert. No. 1,033,226; July 23; Gaz. vol. 180; p. 940.
Wagon, Convertible. J. V. King. No. 1,033,596; July 23; Gaz. vol. 180; p. 1062.
Wagon-cover. J. K. Russell. No. 1,028,608; June 4; Sp. p. 1180; Gaz. vol. 179; p. 181.
Wagon, Dump-. W. L. Collins. No. 1,013,929; Jan. 9; Sp. p. 1884; Gaz. vol. 174; p. 321.

Alphabetical list of inventions—Continued.

Wagon, Dump-. M. J. Todd. No. 1,020,524; Mar. 19; Sp. p. 3217; Gaz. vol. 176; p. 576.
Wagon, Dump-. W. Atkins. No. 1,025,359; May 7; Sp. p. 563; Gaz. vol. 178; p. 88.
Wagon, Dump-. W. L. Collins. No. 1,029,343; June 11; Sp. p. 2774; Gaz. vol. 179; p. 467.
Wagon, Dump-. S. Miller. No. 1,040,725; Oct. 8; Gaz. vol. 183; p. 391.
Wagon, Dump-. W. S. Witten. No. 1,043,990; Nov. 12; Gaz. vol. 184; p. 364.
Wagon, Dump-. W. S. Witten. No. 1,043,991; Nov. 12; Gaz. vol. 184; p. 364.
Wagon, Dumping-. J. Watson. No. 1,015,105; Jan. 16; Sp. p. 4471; Gaz. vol. 174; p. 753.
Wagon, Dumping-. H. L. Phelps. No. 1,017,016; Feb. 13; Sp. p. 1742; Gaz. vol. 175; p. 304.
Wagon, Dumping-. C. Lynch. No. 1,017,302; Feb. 13; Sp. p. 2381; Gaz. vol. 175; p. 405.
Wagon, Dumping-. M. Yoshino and C. N. Edge. No. 1,018,469; Feb. 27; Sp. p. 4939; Gaz. vol. 175; p. 873.
Wagon, Dumping-. G. W. Holland. No. 1,020,823; Mar. 19; Sp. p. 3877; Gaz. vol. 176; p. 677.
Wagon, Dumping-. J. Auth. No. 1,028,525; June 4; Sp. p. 1009; Gaz. vol. 179; p. 154.
Wagon, Dumping-. E. E. Schellenger. No. 1,029,895; June 18; Sp. p. 3992; Gaz. vol. 179; p. 694.
Wagon, Dumping-. J. Ganey. No. 1,030,884; July 2; Gaz. vol. 180; p. 12.
Wagon, Dumping-. H. S. Palm. No. 1,035,038; Aug. 6; Gaz. vol. 181; p. 211.
Wagon, Dumping-. H. L. Hazen. No. 1,038,491; Sept. 10; Gaz. vol. 182; p. 476.
Wagon, Dumping-. H. F. Snyder. No. 1,038,796; Sept. 17; Gaz. vol. 182; p. 617.
Wagon, Dumping-. R. M. White. No. 1,042,302; Oct. 22; Gaz. vol. 183; p. 987.
Wagon, Farm-. W. E. J. Anderson. No. 1,043,659; Nov. 5; Gaz. vol. 184; p. 217.
Wagon for fermented liquids, Delivery-. L. Schottgen. No. 1,047,452; Dec. 17; Gaz. vol. 185; p. 644.
Wagon-gate. W. Hopper. No. 1,035,011; Aug. 6; Gaz. vol. 181; p. 204.
Wagon-gear. J. L. Hecht. No. 1,034,449; Aug. 6; Gaz. vol. 181; p. 16.
Wagon grain-guard. O W. Wiggins. No. 1,025,601; May 7; Sp. p. 1107; Gaz. vol. 178; p. 172.
Wagon, Hand-propelled. J. A. Sherry. No. 1,031,475; July 2; Gaz. vol. 180; p. 219.
Wagon-jack. A. Boberg. No. 1,017,500; Feb. 13; Sp. p. 2804; Gaz. vol. 175; p. 473.
Wagon-jack, Portable-platform. R. J. Jones. No. 1,016,505; Feb. 6; Sp. p. 617; Gaz. vol. 175; p. 94.
Wagon lifting device, Dumping-. C. Pay. No. 1,027,150; May 21; Sp. p. 4597; Gaz. vol. 178; p. 772.
Wagon-loader. C. L. Samp. No. 1,016,038; Jan. 30; Sp. p. 6477; Gaz. vol. 174; p. 1127.
Wagon, Lumber-. A. Barringer. No. 1,044,849; Nov. 19; Gaz. vol. 184; p. 689.
Wagon, Motor-. H. M. Kinney. No. 1,030,735; June 25; Sp. p. 6037; Gaz. vol. 179; p. 1029.
Wagon, Refuse-. L. F. Scholz. No. 1,026,465; May 14; Sp. p. 3038; Gaz. vol. 178; p. 501.
Wagon running-gear. F. Strecker. No. 1,035,106; Aug. 6; Gaz. vol. 181; p. 235.
Wagon running-gear. M. R. Bruner. No. 1,046,258; Dec. 3; Gaz. vol. 185; p. 160.
Wagon sleigh-runner attachment. M. Phillips and W. P. Lytle. No. 1,045,739; Nov. 26; Gaz. vol. 184; p. 1030.
Wagon-stake. A. Bolander. No. 1,017,503; Feb. 13; Sp. p. 2808; Gaz. vol. 175; p. 474.
Wagon-standard. I. H. England. No. 1,028,816; June 4; Sp. p. 1609; Gaz. vol. 179; p. 251.
Wagon, Two-wheeled dump-. P. E. Holt. No. 1,017,972; Feb. 20; Sp. p. 3879; Gaz. vol. 175; p. 671.
Wagon-unloading attachment. A. L. Creger. No. 1,019,952; Mar. 12; Sp. p. 2022; Gaz. vol. 176; p. 349.
Wagon with loading attachment, Dump-. P. L. Holcomb. No. 1,035,440; Aug. 13; Gaz. vol. 181; p. 382.
Wagons and cars, Distributer for dumping. E. E. Schellenger. No. 1,029,894; June 18; Sp. p. 3988; Gaz. vol. 179; p. 694.
Wagons, Wear attachment for. B. F. Gerelds. No. 1,015,795; Jan. 30; Sp. p. 5956; Gaz. vol. 174; p. 1042.
Wagons, Winding mechanism for dump-. C. M. Haeske and R. F. Anderson. No. 1,039,121; Sept. 24; Gaz. vol. 182; p. 742.
Wainscoting. S. F. Williamson. No. 1,046,528; Dec. 10; Gaz. vol. 185; p. 294.
Waist. I. Lefkowitz. No. 1,021,415; Mar. 26; Sp. p. 5141; Gaz. vol. 176; p. 930.
Waist. R. Goldberg. No. 1,036,218; Aug. 20; Gaz. vol. 181; p. 688.
Waist. M. and E. H. Slotkovitz No. 1,042,045; Oct. 22; Gaz. vol. 183; p. 903.
Waist and blouse closure. W. Luft. No. 1,029,204; June 11; Sp. p. 2460; Gaz. vol. 179; p. 419.
Waist and hose supporter, Combined. T. F. Somers. No. 1,022,893; Apr 9; Sp. p. 2430; Gaz. vol. 177; p. 415.
Waist and skirt holder. E. M. Clewell. No. 1,016,612; Feb. 6; Sp. p. 883; Gaz. vol. 175; p. 132.
Waist foundation. S. L. Brundidge. No. 1,026,559; May 14; Sp. p. 3218; Gaz. vol. 178; p. 532.
Waist, Nursing-. J. Jacoby. No. 1,013,778; Jan. 2; Sp. p. 1516; Gaz. vol. 174; p. 240.
Waistband, Convertible. R. W. Graham. No. 1,017,535; Feb. 13; Sp. p. 2874; Gaz. vol. 175; p. 485.
Waiter-calling device. W. H. McManus. No. 1,035,889; Aug. 20; Gaz. vol. 181; p. 571.
Walking attachment, Pneumatic. M. W. Freeman. No. 1,021,142; Mar. 26; Sp. p. 4529; Gaz. vol. 176; p. 835.
Walking-beam. A. L. Chambers and N. Bane. No. 1,013,533; Jan. 2; Sp. p. 968; Gaz. vol. 174; p. 155.
Wall. F. M. Emerson. No. 1,034,770; Aug. 6; Gaz. vol. 181; p. 124.
Wall and floor linings, Producing. J. B. Hahn. No. 1,048,528; Dec. 31; Gaz. vol. 185; p. 1080.
Wall-board drier. H. S. Heichert. No. 1,026,162; May 14; Sp. p. 2362; Gaz. vol. 178; p. 399.
Wall-boxes, Knock-out closure in. J. M. G. Fullman. No. 1,039,722; Oct. 1; Gaz. vol. 183; p. 18.
Wall-bracket. H. P. McMillan. No. 1,048,192; Dec. 24; Gaz. vol. 185; p. 927.
Wall-case. G. E. Palmer. No. 1,016,030; Jan. 30; Sp. p. 6458; Gaz. vol. 174; p. 1123.
Wall-cleaner. R. Rosa. No. 1,044,423; Nov. 12; Gaz. vol. 184; p. 511.
Wall construction. C. E. Rafferty. No. 1,029,822; June 18; Sp. p. 3821; Gaz. vol. 179; p. 670.
Wall construction. J. E. Conzelman. No. 1,045,521; Nov. 26; Gaz. vol. 184; p. 953.
Wall construction, Sectional. S. S. Levy. No. 1,023,946; Apr. 23; Sp. p. 4675; Gaz. vol. 177; p. 830.
Wall-covering and making same. J. N. Wiggin. No. 1,044,322; Nov. 12; Gaz. vol. 184; p. 477.
Wall, Decorative sheathed. E. J. Josz. No. 1,022,951; Apr. 9; Sp. p. 2567; Gaz. vol. 177; p. 436.
Wall-erecting apparatus. H. Daw. No. 1,034,427; Aug. 6; Gaz. vol. 181; p. 10.
Wall for buildings, Cast. H. J. Schubert. No. 1,047,453; Dec. 17; Gaz. vol. 185; p. 645.
Wall, Jumping-. O. Lotzing. No. 1,028,234; June 4; Sp. p. 381; Gaz. vol. 179; p. 54.
Wall-molding system, Hollow-. E. O. Peterson. No. 1,033,461; July 23; Gaz. vol. 180; p. 1017.
Wall or dam construction. C. F. Francisco. No. 1,024,068; Apr. 23; Sp. p. 4924; Gaz. vol. 177; p. 872.
Wall-protector. W. R. Stubbs. No. 1,043,370; Nov. 5; Gaz. vol. 184; p. 117.
Wall-section and connection. J. G. Uhlinger. No. 1,045,223; Nov. 26; Gaz. vol. 184; p. 848.
Wall structures, Securing-clip for. A. L. Johnson. No. 1,039,136; Sept. 24; Gaz. vol. 182; p. 747.
Walls, Apparatus for building. W. Cook. No. 1,033,385; July 23; Gaz. vol. 180; p. 993.
Walls, columns, and the like, Mosaic covering for. E. B. von Nordenkampf. No. 1,028,058; May 28; Sp. p. 6505; Gaz. vol. 178; p. 1113.
Walls, Construction of building-. J. Mitchell. No. 1,039,313; Sept. 24; Gaz. vol. 182; p. 811.
Walls, Metallic reinforcement for. W. L. Collins. No. 1,029,106; June 11; Sp. p. 2255; Gaz. vol. 179; p. 385.
Wallet. J. R. Cardwell. No. 1,020,537; Mar. 19; Sp. p. 3245; Gaz. vol. 176; p. 580.
Wallet. J. R. Cardwell. No. 1,035,945; Aug. 20; Gaz. vol. 181; p. 590.
Wallet. J. R. Cardwell. No. 1,035,946; Aug. 20; Gaz. vol. 181; p. 591.
Wallet. F. E. Housh. No. 1,044,529; Nov. 19; Gaz. vol. 184; p. 578.
War-ships water-tight, Rendering the joints of the casemated port-holes of. M. Noack. No. 1,039,316; Sept. 24; Gaz. vol. 182; p. 811.
Wardrobe. S. W. Bonsall. No. 1,019,219; Mar. 5; Sp. p. 467; Gaz. vol. 176; p. 74.
Wardrobe. S. W. Bonsall. No. 1,043,059; Nov. 5; Gaz. vol. 184; p. 3.
Wardrobe, Foldable. N. J. Bell, (now by marriage N. J. Litherbury.) No. 1,013,729; Jan. 2; Sp. p. 1411; Gaz. vol. 174; p. 222.
Wardrobe grip or tray. G. H. Wheary. No. 1,025,351; May 7; Sp. p. 543; Gaz. vol. 178; p. 85.
Wardrobe, Portable. L. S. Hauck. No. 1,043,590; Nov. 5; Gaz. vol. 184; p. 194.
Wardrobe, Portable. E. N. Johnson. No. 1,048,701; Dec. 31; Gaz. vol. 185; p. 1141.
Warm-air furnace. J. V. Dailey. No. 1,042,650; Oct. 29; Gaz. vol. 183; p. 1137.
Warm-air furnace, Self-feeding. S. P. Moncrief. No. 1,022,965; Apr. 9; Sp. p. 2596; Gaz. vol. 177; p. 441.
Warp-drawing machine. C. Lea. No. 1,017,296; Feb. 13; Sp. p. 2362; Gaz. vol. 175; p. 402.
Warp, Means for securing the end portion of a. S. B. Mathewson. No. 1,019,332; Mar. 5; Sp. p. 732; Gaz. vol. 176; p. 114.
Warp stop-motion. W. H. Baker. No. 1,026,941; May 21; Sp. p. 4116; Gaz. vol. 178; p. 701.
Warp take-up, Loose-. H. W. Owen. No. 1,027,886; May 28; Sp. p. 6164; Gaz. vol. 178; p. 1058.
Warp take-up, Loose-. H. W. Owen. No. 1,027,887; May 28; Sp. p. 6167; Gaz. vol. 178; p. 1058.

Alphabetical list of inventions—Continued.

Warp-twisting-in machine. A. Schuster. No. 1,027,670; May 28; Sp. p. 5645; Gaz. vol. 178; p. 984.
Warper. H. W. Owen and R. N. Welcome. No. 1,026,600; May 14; Sp. p. 3295; Gaz. vol. 178; p. 544.
Warping-machine. F. S. Rand. No. 1,022,755; Apr. 9; Sp. p. 2160; Gaz. vol. 177; p. 370.
Warping-machine. J. Warburton. No. 1,033,363; July 23; Gaz. vol. 180; p. 986.
Warping-machine. F. S. Rand. No. 1,048,580; Dec. 31; Gaz. vol. 185; p. 1096.
Warping-machine stop-motion. F. S. Rand. No. 1,025,158; May 7; Sp. p. 99; Gaz. vol. 178; p. 18.
Warping-machine stop-motion mechanism. W. J. Garlick. No. 1,023,730; Apr. 16; Sp. p. 4155; Gaz. vol. 177; p. 729.
Warping-machines, &c., Combined yarn guiding, clearing, and tension device for. L. Fessmann and G. Hämmerle. No. 1,034,775; Aug. 6; Gaz. vol. 181; p. 125.
Wash-solution collector. F. G. Peck. No. 1,030,918; July 2; Gaz. vol. 180; p. 23.
Washer: *See* Air-washer; Bearing-washer; Bottle-washer; Clothes-washer; Dish-washer; Gas-washer; Gas or smoke washer; Hose-coupling washer; Lock-washer; Locking-washer; Nut-locking washer; Photographic-film washer; Photographic-print washer; Vehicle-washer.
Washer. A. L. Sessions. No. 1,028,290; June 4; Sp. p. 500; Gaz. vol. 179; p. 73.
Washer. J. Pickles. No. 1,031,024; July 2; Gaz. vol. 180; p. 61.
Washer-making machine. M. G. Worth. No. 1,015,752; Jan. 23; Sp. p. 5862; Gaz. vol. 174; p. 999.
Washing apparatus. G. W. Connor. No. 1,034,206; July 30; Gaz. vol. 180; p. 1296.
Washing berries, vegetables, and fruits, Machine for. W. Fink. No. 1,036,988; Aug. 27; Gaz. vol. 181; p. 980.
Washing crockery, &c., Device for. F. Staines. No. 1,040,450; Oct. 8; Gaz. vol. 183; p. 291.
Washing device. J. W. Tool, T. F. Linegar, and J. G. Williams. No. 1,017,606; Feb. 13; Sp. p. 2999; Gaz. vol. 175; p. 506.
Washing device. C. Schultz and S. Scheer. No. 1,042,978; Oct. 29; Gaz. vol. 183; p. 1250.
Washing device, Clothes-. W. E. Singer. No. 1,048,363; Dec. 24; Gaz. vol. 185; p. 985.
Washing-machine. E. J. Miller. No. 1,020,618; Mar. 19; Sp. p. 3429; Gaz. vol. 176; p. 607.
Washing-machine. O. W. Robeson. No. 1,022,003; Apr. 2; Sp. p. 545; Gaz. vol. 177; p. 85.
Washing-machine. E. L. Goodwin. No. 1,022,475; Apr. 9; Sp. p. 1525; Gaz. vol. 177; p. 274.
Washing-machine. R. S. Orr. No. 1,022,640; Apr. 9; Sp. p. 1874; Gaz. vol. 177; p. 328.
Washing-machine. R. S. Orr. No. 1,022,641; Apr. 9; Sp. p. 1876; Gaz. vol. 177; p. 328.
Washing-machine. C. J. Marth. No. 1,023,746; Apr. 16; Sp. p. 4181; Gaz. vol. 177; p. 734.
Washing-machine. F. L. Walker. No. 1,024,381; Apr. 23; Sp. p. 5577; Gaz. vol. 177; p. 978.
Washing-machine. C. Willes. No. 1,026,540; May 14; Sp. p. 3180; Gaz. vol. 178; p. 526.
Washing-machine. A. Lamarre and L. Fiala. No. 1,026,811; May 21; Sp. p. 3783; Gaz. vol. 178; p. 654.
Washing-machine. F. Radloff. No. 1,027,152; May 21; Sp. p. 4600; Gaz. vol. 178; p. 772.
Washing-machine. P. Werner. No. 1,027,227; May 21; Sp. p. 4746; Gaz. vol. 178; p. 798.
Washing-machine. J. S. Dickey. No. 1,028,003; May 28; Sp. p. 6395; Gaz. vol. 178; p. 1097.
Washing-machine. C. Pinoli. No. 1,030,855; June 25; Sp. p. 6449; Gaz. vol. 179; p. 1074.
Washing-machine. R. E. Campbell. No. 1,030,870; July 2; Gaz. vol. 180; p. 7.
Washing-machine. D. J. Shea. No. 1,033,832; July 30; Gaz. vol. 180; p. 1165.
Washing-machine. H. L. Braly. No. 1,034,413; Aug. 6; Gaz. vol. 181; p. 5.
Washing-machine. S. A. Biggers. No. 1,035,520; Aug. 13; Gaz. vol. 181; p. 410.
Washing-machine. P. McDorman. No. 1,040,370; Oct. 8; Gaz. vol. 183; p. 264.
Washing-machine. C. Graham. No. 1,041,067; Oct. 15; Gaz. vol. 183; p. 537.
Washing-machine. J. E. Hodson. No. 1,041,793; Oct. 22; Gaz. vol. 183; p. 818.
Washing-machine. G. T. Buddle. No. 1,042,391; Oct. 29; Gaz. vol. 183; p. 1044.
Washing machine. M. Paquay. No. 1,044,415; Nov. 12; Gaz. vol. 184; p. 509.
Washing-machine. R. H. Hoyt. No. 1,046,788; Dec. 10; Gaz. vol. 185; p. 386.
Washing-machine. G. W. Dungan and C. E. Hoover. No. 1,047,181; Dec. 17; Gaz. vol. 185; p. 547.
Washing-machine, Electric. W. D. Jones. No. 1,020,828; Mar. 19; Sp. p. 3887; Gaz. vol. 176; p. 679.
Washing-machine, Electric. W. D. Jones. No. 1,020,829; Mar. 19; Sp. p. 3888; Gaz. vol. 176; p. 679.
Washing-machine gearing. H. Cammack. No. 1,022,825; Apr. 9; Sp. p. 2300; Gaz. vol. 177; p. 395.
Washing-machine gearing. L. A. Stephan. No. 1,022,977; Apr. 9; Sp. p. 2616; Gaz. vol. 177; p. 445.
Washing-machine gearing. A. B. Cooling. No. 1,040,627; Oct. 8; Gaz. vol. 183; p. 355.
Washing-machine, &c., heater. T. C. Morgan. No. 1,033,113; July 23; Gaz. vol. 180; p. 900.
Washing-machine mechanical movement. W. H. Voss. No. 1,042,853; Oct. 29; Gaz. vol. 183; p. 1207.
Washing-machine or the like. F. R. King. No. 1,014,968; Jan. 16; Sp. p. 4197; Gaz. vol. 174; p. 706.
Washing-machine pounder. G. C. Dunham. No. 1,014,578; Jan. 9; Sp. p. 3242; Gaz. vol. 174; p. 578.
Washing-machine, &c., roller attachment. A. Scharnweber. No. 1,034,309; July 30; Gaz. vol. 180; p. 1332.
Washing-machines, Driving mechanism for laundry. E. W. Blum. No. 1,043,195; Nov. 5; Gaz. vol. 184; p. 53.
Washing-machines, Operating mechanism for power-actuated. G. N. Meves. No. 1,022,691; Apr. 9; Sp. p. 2001; Gaz. vol. 177; p. 346.
Washbasin. G. E. Swyney. No. 1,038,799; Sept. 17; Gaz. vol. 182; p. 618.
Washbasin. J. C. Bryant. No. 1,046,960; Dec. 10; Gaz. vol. 185; p. 442.
Washbasin. E. F. Hine. No. 1,047,807; Dec. 17; Gaz. vol. 185; p. 771.
Washbasin and bath-tub plug. E. E. Haff. No. 1,014,389; Jan. 9; Sp. p. 2900; Gaz. vol. 174; p. 480.
Washbasin-fixture. W. A. Speakman. No. 1,036,021; Aug. 20; Gaz. vol. 181; p. 614.
Washbench. W. J. Book. No. 1,028,533; June 4; Sp. p. 1027; Gaz. vol. 179; p. 156.
Washbench. J. P. Doran. No. 1,031,697; July 9; Gaz. vol. 180; p. 337.
Washboard. A. A. Jones. No. 1,021,870; Apr. 2; Sp. p. 260; Gaz. vol. 177; p. 42.
Washboard. G. Melber. No. 1,022,251; Apr. 2; Sp. p. 1055; Gaz. vol. 177; p. 168.
Washboard. M. A. Morse. No. 1,043,623; Nov. 5; Gaz. vol. 184; p. 205.
Washboiler. L. West. No. 1,029,778; June 18; Sp. p. 3706; Gaz. vol. 179; p. 653.
Washboiler ejecting means. F. Wilcox. No. 1,032,095; July 9; Gaz. vol. 180; p. 472.
Washboilers, Crated. J. Dister. No. 1,015,380; Jan. 23; Sp. p. 5059; Gaz. vol. 174; p. 872.
Washbowl. J. E. Stephenson. No. 1,020,324; Mar. 12; Sp. p. 2786; Gaz. vol. 176; p. 472.
Washline-rack. M. M. Hesser. No. 1,035,825; Aug. 13; Gaz. vol. 181; p. 511.
Washstand-trap. E. S. Hunsicker. No. 1,014,223; Jan. 9; Sp. p. 2508; Gaz. vol. 174; p. 421.
Washstick. H. M. Pfenning. No. 1,034,731; Aug. 6; Gaz. vol. 181; p. 110.
Washtrays, &c, Cover for. E. U. Danenhower. No. 1,029,175; June 11; Sp. p. 2394; Gaz. vol. 179; p. 408.
Washtub. J. J. Reilly. No. 1,039,803; Oct. 1; Gaz. vol. 183; p. 45.
Washtubs, Twin waste for soapstone. E. E. Flynt. No. 1,016,880; Feb. 6; Sp. p. 1422; Gaz. vol. 175; p. 221.
Waste-cleaning machine. J. R. McDonald. No. 1,031,655; July 2; Gaz. vol. 180; p. 280.
Waste connection. P. F. Murphy. No. 1,025,584; May 7; Sp. p. 1075; Gaz. vol. 178; p. 166.
Waste-fixture. W. R. Willetts. No. 1,018,021; Feb. 20; Sp. p. 3969; Gaz. vol. 175; p. 688.
Waste-plug lifter. H. Rattler. No. 1,029,463; June 11; Sp. p. 3033; Gaz. vol. 179; p. 508.
Waste-receptacle. M. M. De Grody. No. 1,037,174; Aug. 27; Gaz. vol. 181; p. 1041.
Waste-receptacle. H. M. Cosey. No. 1,043,510; Nov. 5; Gaz. vol. 184; p. 167.
Waste-treating apparatus. E. C. Emery. No. 1,030,169; June 18; Sp. p. 4556; Gaz. vol. 179; p. 787.
Watch. E. S. Perry. No. 1,013,896; Jan. 9; Sp. p. 1801; Gaz. vol. 174; p. 309.
Watch. W. Buszek and T. Sokolowski. No. 1,016,321; Feb. 6; Sp. p. 193; Gaz. vol. 175; p. 29.
Watch. W. Haines. No. 1,022,078; Apr. 2; Sp. p. 690; Gaz. vol. 177; p. 110.
Watch. A. Friedman. No. 1,044,370; Nov. 12; Gaz. vol. 184; p. 493.
Watch-album. I. Kasindorf. No. 1,022,090; Apr. 2; Sp. p. 718; Gaz. vol. 177; p. 114.
Watch-bow. S. Steinberg. No. 1,026,061; May 14; Sp. p. 2134; Gaz. vol. 178; p. 363.
Watch-bows, Making Swiss. W. E. Gibbs. No. 1,019,316; Mar. 5; Sp. p. 702; Gaz. vol. 176; p. 109.
Watch-bows, Making Swiss. C. W. Harman. No. 1,019,636; Mar. 5; Sp. p. 1392; Gaz. vol. 176; p. 213.
Watch center wheel. W. W. Dudley. No. 1,037,740; Sept. 3; Gaz. vol. 182; p. 188.
Watch-fob. T. W. Foster. No. 1,032,328; July 9; Gaz. vol. 180; p. 552.
Watch-guard. G. M. and W. A. Lindsey. No. 1,027,487; May 28; Sp. p. 5271; Gaz. vol. 178; p. 924.
Watch-holder. A. H. Sublett. No. 1,027,574; May 28; Sp. p. 5461; Gaz. vol. 178; p. 955.
Watch-holder. E. W. Hill. No. 1,038,750; Sept. 17; Gaz. vol. 182; p. 601.

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Watch-movement. G. Nutting. No. 1,041,335; Oct. 15; Gaz. vol. 183; p. 628.
Watch or clock dial. F. S. Cornwell. No. 1,024,558; Apr. 30; Sp. p 6076; Gaz. vol. 177; p. 1076.
Watch or clock spring carrier. M. M. Riglander. No. 1,015,978; Jan. 30; Sp. p. 6346; Gaz. vol. 174; p. 1104.
Watch-protector. J. A. Fuller. No. 1,038,740; Sept. 17; Gaz. vol. 182; p. 597.
Watch-securing device. J. F. H. Heide. No. 1,038,575; Sept. 17; Gaz. vol. 182; p. 539.
Watch, Stem setting and winding. J. Zalinsky. No. 1,028,314; June 4; Sp. p. 545; Gaz. vol. 179; p. 80.
Watch, Stem-winding. H. W. Matalene. No. 1,044,554; Nov. 19; Gaz. vol. 184; p. 585.
Watch, Stem winding and setting. H. W. Matalene. No. 1,020,769; Mar. 19; Sp. p. 3763; Gaz. vol. 176; p. 659.
Watch, Stem winding and setting. H. W. Matalene. No. 1,023,384; Apr. 16; Sp. p. 3485; Gaz. vol. 177; p. 622.
Watch, Stem winding and setting. J. A. Freund. No. 1,029,116; June 11; Sp. p. 2275; Gaz. vol. 179; p. 388.
Watch stem winding and setting device. F. G. Gruen. No. 1,048,688; Dec. 31; Gaz. vol. 185; p. 1137.
Watch stem winding and setting mechanism. A. S. Leslie. No. 1,032,289; July 9; Gaz. vol. 180; p. 539.
Watch winding mechanism. F. Wehinger. No. 1,046,041; Dec. 3; Gaz. vol. 185; p. 83.
Watches and marine clocks, Escapement mechanism for. W. E. Porter. No. 1,033,465; July 23; Gaz. vol. 180; p. 1018.
Watches, Balance staff and roller for. V. S. Corey. No. 1,025,865; May 7; Sp. p. 1659; Gaz. vol. 178; p. 261.
Watches, Device to facilitate the regulation of. P. Scholl. No. 1,042,609; Oct. 29; Gaz. vol. 183; p. 1123.
Watches in the cases, Means for fastening the movements of. A. J. Baker. No. 1,037,577; Sept. 3; Gaz. vol. 182; p. 135.
Watchcase. K. Koike. No. 1,017,420; Feb. 13; Sp. p. 2633; Gaz. vol. 175; p. 445.
Watchcase. J. C. Humphreys. No. 1,028,730; June 4; Sp. p. 1420; Gaz. vol. 179; p. 221.
Watchcase, Folding. H. W. Matalene. No. 1,020,770; Mar. 19; Sp. p. 3766; Gaz. vol. 176; p. 659.
Watchcase receiver. W. O. Beck. No. 1,026,196; May 14; Sp. p. 2444; Gaz. vol. 178; p. 410.
Watchmaker's electric heater. P. and F. Lux. No. 1,037,030; Aug. 27; Gaz. vol. 181; p. 993.
Watchmaker's tool. J. H. Weismann. No. 1,024,383; Apr. 23; Sp. p. 5580; Gaz. vol. 177; p. 979.
Watchmaker's tool. J. E. Smith. No. 1,024,530; Apr. 30; Sp. p. 5995; Gaz. vol. 177; p. 1066.
Water, air, or gas, Apparatus for cooling or warming. H. Heenan. No. 1,018,243; Feb. 20; Sp. p. 4457; Gaz. vol. 175; p. 765.
Water and other fluids, Means for use in heating, pumping, and circulating. A. Clark and J. J. Ferguson. No. 1,041,429; Oct. 15; Gaz. vol. 183; p. 659.
Water and other liquids, Apparatus for the mechanical treatment of impure. L. Linden. No. 1,024,451; Apr. 23; Sp. p. 5759; Gaz. vol. 177; p. 1002.
Water and sewage ejector. A. C. Wells. No. 1,025,727; May 7; Sp. p. 1374; Gaz. vol. 178; p. 214.
Water and sewage lift. A. C. Wells. No. 1,025,079; Apr. 30; Sp. p. 7150; Gaz. vol. 177; p. 1255.
Water and shot feed coupling. W. I. Ravert. No. 1,026,880; May 21; Sp. p. 3945; Gaz. vol. 178; p. 679.
Water-bag-making apparatus. J. L. Mahoney. No. 1,035,616; Aug. 13; Gaz. vol. 181; p. 441.
Water-bag nozzle. E. Over. No. 1,014,607; Jan. 9; Sp. p. 3323; Gaz. vol. 174; p. 551
Water-bag retainer. E. R. Norwood. No. 1,025,012; Apr. 30; Sp. p. 7023; Gaz. vol. 177; p. 1234.
Water-bags. Socket member for. M. C. Schweinert and H. P. Kraft. No. 1,046,501; Dec. 10; Gaz. vol. 185; p. 284.
Water-balance, Self-acting. M. Llobet. No. 1,030,099; June 18; Sp. p. 4429; Gaz. vol. 179; p. 765.
Water by steam, Apparatus for evaporating or heating. D. A. Quiggin. No. 1,029,631; June 18; Sp. p. 3383; Gaz. vol. 179; p. 603.
Water-carrier. J. A. Campbell. No. 1,020,884; Mar. 19; Sp. p. 3996; Gaz. vol. 176; p. 696.
Water-carrier. W. W. Penry. No. 1,038,641; Sept. 17; Gaz. vol. 182; p. 563.
Water-circulating system, Domestic. J. P. B. Sadtler. No. 1,016,959; Feb. 13; Sp. p. 1625; Gaz. vol. 175; p. 285.
Water-clarifier, Centrifugal. W. K. Richardson. No. 1,014,849; Jan. 16; Sp. p. 3928; Gaz. vol. 174; p. 666.
Water-closet. H. S. Rumsey. No. 1,013,616; Jan. 2; Sp. p. 1141; Gaz. vol. 174; p. 182.
Water-closet. B. R. Torossian. No. 1,014,787; Jan. 16; Sp. p. 3784; Gaz. vol. 174; p. 643.
Water-closet. W. A. Fraser. No. 1,017,044; Feb. 13; Sp. p. 1809; Gaz. vol. 175; p. 314.
Water-closet. I. A. Mann. No. 1,017,437; Feb. 13; Sp. p. 2668; Gaz. vol. 175; p. 451.
Water-closet. J. A. Stevenson and L. O. Phillips. No. 1,025,655; May 7; Sp. p. 1228; Gaz. vol. 178; p. 189.
Water-closet. F. A. Schossow. No. 1,031,876; July 9; Gaz. vol. 180; p. 400.
Water-closet. E. P. Gaylord. No. 1,033,792; July 30; Gaz. vol. 180; p. 1150.
Water-closet. E. G. Watrous. No. 1,040,474; Oct. 8; Gaz. vol. 183; p. 299.
Water-closet. A. J. Podmore. No. 1,048,872; Dec. 31; Gaz. vol. 185; p. 1199.
Water-closet bend. B. Oakes. No. 1,022,044; Apr. 2; Sp. p. 626; Gaz. vol. 177; p. 99.
Water-closet-bowl support. W. E. Hinsdale. No. 1,043,835; Nov. 12; Gaz. vol. 184; p. 309.
Water-closet bowls, Packing for. J. Jaeger. No. 1,044,457; Nov. 12; Gaz. vol. 184; p. 522.
Water-closet bowls, Soil-pipe connection for. J. F. Kelly. No. 1,044,056; Nov. 12; Gaz. vol. 184; p. 386.
Water-closet connection. J. J. Cosgrove. No. 1,029,425; June 11; Sp. p. 2960; Gaz. vol. 179; p. 495.
Water-closet connection. G. F. Tong. No. 1,041,905; Oct. 22; Gaz. vol. 183; p. 857.
Water-closet floor connection. W. G. Cramer. No. 1,031,531; July 2; Gaz. vol. 180; p. 237.
Water-closet, Non-freezing. I. Frenkil. No. 1,045,275; Nov. 26; Gaz. vol. 184; p. 866.
Water-closet, Sanitary. J. C. Seyl. No. 1,037,062; Aug. 27; Gaz. vol. 181; p. 1004.
Water-closet, Sanitary portable. M. Schiller. No. 1,038,665; Sept. 17; Gaz. vol. 182; p. 570.
Water-closet-seat attachment. C. De Quillfeldt. No. 1,030,720; June 25; Sp. p. 6003; Gaz. vol. 179; p. 1024.
Water-closet seats, Combined connecting brace, shield, and buffer-holder for. C. Pfau. No. 1,041,342; Oct. 15; Gaz. vol. 183; p. 630.
Water-closet-supporting device. E. G. Watrous. No. 1,040,823; Oct. 8; Gaz. vol. 183; p. 422.
Water-closet valve. A. Zimmerman. No. 1,032,038; July 9; Gaz. vol. 180; p. 453.
Water-closet valve, Frost-proof. T. F. Payne. No. 1,045,433; Nov. 26; Gaz. vol. 184; p. 920.
Water-closet ventilator. K. S. Blanchard. No. 1,025,364; May 7; Sp. p. 574; Gaz. vol. 178; p. 89.
Water-closets, Flushing. F. Ruppel. No. 1,035,241; Aug. 13; Gaz. vol. 181; p. 312.
Water-closets, Waste or soil pipe connection for. J. Clifford. No. 1,042,087; Oct. 22; Gaz. vol. 183; p. 917.
Water-commingling head. J. J. Tyne. No. 1,030,144; June 18; Sp. p. 4509; Gaz. vol. 179; p. 779.
Water-cooler. R. Bonnell. No. 1,019,416; Mar. 5; Sp. p. 962; Gaz. vol. 176; p. 140.
Water-cooler. W. Hepfinger. No. 1,020,982; Mar. 26; Sp. p. 4215; Gaz. vol. 176; p. 783.
Water-cooler stand. H. G. Cordley. No. 1,015,615; Jan. 23; Sp. p. 5566; Gaz. vol. 174; p. 954.
Water-cooler stand. W. I. Sherwood. No. 1,018,212; Feb. 20; Sp. p. 4393; Gaz. vol. 175; p. 755.
Water-cooling tower. B. F. Hart, Jr. No. 1,023,564; Apr. 16; Sp. p. 3849; Gaz. vol. 177; p. 678.
Water-craft. A. Wilk. No. 1,023,699; Apr. 16; Sp. p. 4100; Gaz. vol. 177; p. 720.
Water-current and air motor. P. T. Snyder. No. 1,015,517; Jan. 23; Sp. p. 5352; Gaz. vol. 174; p. 918.
Water, Device for manufacturing mineral. J. Bienz. No. 1,015,753; Jan. 23; Sp. p. 5865; Gaz. vol. 174; p. 1000.
Water-distributer. J. J. Petrie. No. 1,041,509; Oct. 15; Gaz. vol. 183; p. 685.
Water-distributing system, High-pressure. G. W. Jackson. No. 1,030,587; June 25; Sp. p. 5615; Gaz. vol. 179; p. 975.
Water distribution, Connection for. B. F. Shapro. No. 1,040,039; Oct. 1; Gaz. vol. 183; p. 123.
Water elevating and impelling apparatus. A. V. Pflaumm. No. 1,042,599; Oct. 29; Gaz. vol. 183; p. 1119.
Water-elevating apparatus. N. H. Freeman. No. 1,035,955; Aug. 20; Gaz. vol. 181; p. 593.
Water-elevating apparatus. E. L. Peisar. No. 1,044,079; Nov. 12; Gaz. vol. 184; p. 394.
Water-elevator. G. M. Holt. No. 1,014,879; Jan. 16; Sp. p. 3996; Gaz. vol. 174; p. 676.
Water-elevator. S. Murta. No. 1,016,085; Jan. 30; Sp. p. 6588; Gaz. vol. 174; p. 1144.
Water-elevator. M. Schichtl. No. 1,021,895; Apr. 2; Sp. p. 308; Gaz. vol. 177; p. 51.
Water-elevator. J. and W. S. Seaman. No. 1,035,055; Aug. 6; Gaz. vol. 181; p. 217.
Water-elevator and brake mechanism, Windlass. A. A. Hatcher. No. 1,036,110; Aug. 20; Gaz. vol. 181; p. 646.
Water-elevator, Compressed-air. A. O. Brown. No. 1,032,272; July 9; Gaz. vol. 180; p. 533.
Water-elevator, Compressed-air. H. A. Hogel. No. 1,042,227; Oct. 22; Gaz. vol. 183; p. 963.
Water filter, Rain-. I. N. Pickett. No. 1,032,700; July 16; Gaz. vol. 180; p. 724.
Water flow and leakage detector. E. D. Van Ness. No. 1,032,971; July 16; Gaz. vol. 180; p. 813.
Water-fountain. H. S. Fairchild. No. 1,035,780; Aug. 13; Gaz. vol. 181; p. 496.
Water-gage. F. E. Grosvold. No. 1,016,885; Feb. 6; Sp. p. 1431; Gaz. vol. 175; p. 222.
Water-gage. J. Hackett. No. 1,026,309; May 14; Sp. p. 2686; Gaz. vol. 178; p. 449.
Water-gage. J. Dobias. No. 1,031,536; July 2; Gaz. vol. 180; p. 235.

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Water-gage. R. A. Mauger. No. 1,036,289; Aug. 20; Gaz. vol. 181; p. 711.
Water-gage. H. S. Bonesteel. No. 1,040,127; Oct. 1; Gaz. vol. 183; p. 153.
Water-gage. C. F. Gerlinger. No. 1,042,427; Oct. 29; Gaz. vol. 183; p. 1059.
Water-gage. B. Zindel. No. 1,044,621; Nov. 19; Gaz. vol. 184; p. 610.
Water-gage, Duplex. J. J. Ryan. No. 1,040,020; Oct. 1; Gaz. vol. 183; p. 116.
Water-heater. D. Popa. No. 1,015,833; Jan. 30; Sp. p. 6033; Gaz. vol. 174; p. 1053.
Water-heater. F. H. Oehlke. No. 1,017,012; Feb. 13; Sp. p. 1735; Gaz. vol. 175; p. 303.
Water-heater. R. W. Rogers. No. 1,017,321; Feb. 13; Sp. p. 2423; Gaz. vol. 175; p. 411.
Water-heater. W. J. Kibby. No. 1,018,711; Feb. 27; Sp. p. 5519; Gaz. vol. 175; p. 956.
Water-heater. C. A. Ryerson. No. 1,019,090; Mar. 5; Sp. p. 183; Gaz. vol. 176; p. 29.
Water-heater. A. M. and F. Girtanner. No. 1,019,452; Mar. 5; Sp. p. 1029; Gaz. vol. 176; p. 151.
Water-heater. G. E. Starn. No. 1,019,549; Mar. 5; Sp. p. 1229; Gaz. vol. 176; p. 183.
Water-heater. F. C. Jaeneke. No. 1,020,558; Mar. 19; Sp. p. 3292; Gaz. vol. 176; p. 588.
Water-heater. B. Reid. No. 1,020,621; Mar. 19; Sp. p. 3439; Gaz. vol. 176; p. 608.
Water-heater. M. Borsodi. No. 1,020,682; Mar. 19; Sp. p. 3567; Gaz. vol. 176; p. 628.
Water-heater. H. C. Macaire. No. 1,022,637; Apr. 9; Sp. p. 1868; Gaz. vol. 177; p. 327.
Water-heater. O. Fox. No. 1,025,389; May 7; Sp. p. 632; Gaz vol. 178; p. 98.
Water-heater. N. G. Goreau. No. 1,026,030; May 14; Sp. p. 2059; Gaz. vol. 178; p. 353.
Water-heater. W. H. Fox. No. 1,027,831; May 28; Sp. p. 5991; Gaz. vol. 178; p. 1039.
Water-heater. C. Nichols. No. 1,028,261; June 4; Sp. p. 433; Gaz. vol. 179; p. 63.
Water-heater. E. Ruud. No. 1,028,284; June 4; Sp. p. 481; Gaz. vol. 179; p. 70.
Water-heater. R. Wadham. No. 1,028,979; June 11; Sp. p. 1978; Gaz. vol. 179; p. 341.
Water-heater. W. H. Jones. No. 1,029,300; June 11; Sp. p. 2660; Gaz. vol. 179; p. 451.
Water-heater. H. S. Humphrey. No. 1,029,870; June 18; Sp. p. 3936; Gaz. vol. 179; p. 685.
Water-heater. C. D. Brenner and W. D. Pratt. No. 1,031,239; July 2; Gaz. vol. 180; p. 138.
Water-heater. A. Beler. No. 1,032,646; July 16; Gaz. vol. 180; p. 704.
Water-heater. H. S. Humphrey. No. 1,033,103; July 23; Gaz. vol. 180; p. 897.
Water-heater. H. S. Humphrey. No. 1,033,896; July 30; Gaz. vol. 180; p. 1189.
Water-heater. M. J. Quinn. No. 1,035,636; Aug. 13; Gaz. vol. 181; p. 448.
Water-heater. W. L. Blackwell and E. J. De Ville. No. 1,035,679; Aug. 13; Gaz. vol. 181; p. 462.
Water-heater. N. L. Van Zandt. No. 1,038,802; Sept. 17; Gaz. vol. 182; p. 619.
Water-heater. J. T. Cullen, Jr. No. 1,039,651; Sept. 24; Gaz. vol. 182; p. 929.
Water-heater. H. O. Allen. No. 1,044,469; Nov. 19; Gaz. vol. 184; p. 557.
Water-heater. F. M. Gerlemann and J. E. Klemmer. No. 1,045,545; Nov. 26; Gaz. vol. 184; p. 962.
Water-heater. G. T. Hickmott. No. 1,046,591; Dec. 10; Gaz. vol. 185; p. 315.
Water-heater. L. A. Korb. No. 1,047,893; Dec. 17; Gaz. vol. 185; p. 800.
Water-heater. W. P. Austin. No. 1,048,271; Dec. 24; Gaz. vol. 185; p. 953.
Water-heater. J. W. Guimont. No. 1,048,827; Dec. 31; Gaz. vol. 185; p. 1185.
Water-heater. P. J. Hubert. No. 1,049,325; Dec. 31; Gaz. vol. 185; p. 1355.
Water-heater, Automatic electric. J. I. Ayer. No. 1,029,523; June 11; Sp. p. 3145; Gaz. vol. 179; p. 527.
Water-heater, Auxiliary. J. S. Makin and H. A. Schellman. No. 1,022,148; Apr. 2; Sp. p. 842; Gaz. vol. 177; p. 133.
Water-heater construction. F. L. O. Wadsworth. No. 1,044,954; Nov. 19; Gaz. vol. 184; p. 725.
Water-heater, Electric. A. S. Cubitt. No. 1,019,427; Mar. 5; Sp. p. 977; Gaz. vol. 176; p. 143.
Water-heater, Electric. E. M. Hengell. No. 1,026,862; May 21; Sp. p. 3892; Gaz. vol. 178; p. 672.
Water-heater, Electric. H. P. Ball. No. 1,034,952; Aug. 6; Gaz. vol. 181; p. 185.
Water-heater, Electric. R. R. Foster. No. 1,036,990; Aug. 27; Gaz. vol. 181; p. 980.
Water-heater, Electric. C. O. Haskell. No. 1,045,975; Dec. 3; Gaz. vol. 185; p. 61.
Water-heater, Electrical. M. H. Shoenberg. (Reissue.) No. 13,480; Oct. 15; Gaz. vol. 183; p. 756.
Water-heater for bath-tubs, Portable. J. Levy. No. 1,045,416; Nov. 26; Gaz. vol. 184; p. 915.
Water-heater for shaving outfits. C. A. Nearman. No. 1,030,526; June 25; Sp. p. 5430; Gaz. vol. 179; p. 954.
Water-heater, Gas. W. B. Bastian. No. 1,013,581; Jan. 2; Sp. p. 1055; Gaz. vol. 174; p. 170.
Water-heater, Gas. A. W. Finlayson. No. 1,039,919; Oct. 1; Gaz. vol. 183; p. 83.
Water-heater, Gas. A. Horwitz. No. 1,044,456; Nov. 12; Gaz. vol. 184; p. 521.
Water-heater grid, Cleanable. M. A. Spear. No. 1,015,911; Jan. 30; Sp. p. 6202; Gaz. vol. 174; p. 1081.
Water-heater, Individual. L. B. Rice. No. 1,031,376; July 2; Gaz. vol. 180; p. 184.
Water-heater, Instantaneous. G. H. Harrington. No. 1,015,314; Jan. 23; Sp. p. 4907; Gaz. vol. 174; p. 850.
Water-heater, Instantaneous. W. F. Stewart. No. 1,028,146; June 4; Sp. p. 148; Gaz. vol. 179; p. 22.
Water-heater, Instantaneous. P. G. Hubert. No. 1,038,140; Sept. 10; Gaz. vol. 182; p. 355.
Water-heater or steam-generator. P. Barnes. No. 1,027,975; May 28; Sp. p. 6338; Gaz. vol. 178; p. 1088.
Water-heater, Solar. J. M. Kennedy and J. O'Hara. No. 1,034,465; Aug. 6; Gaz. vol. 181; p. 21.
Water-heater, Stovepipe. W. G. Garrard. No. 1,038,113; Sept. 10; Gaz. vol. 182; p. 346.
Water-heater, Submergible. J. H. Bernhard. No. 1,048,795; Dec. 31; Gaz. vol. 185; p. 1174.
Water heating and measuring apparatus, Combination. G. H. Gibson. No. 1,015,556; Jan. 23; Sp. p. 5436; Gaz. vol. 174; p. 931.
Water-heating apparatus. G. H. Gibson. No. 1,014,822; Jan. 16; Sp. p. 3860; Gaz. vol. 174; p. 655.
Water-heating apparatus. J. E. Caps. No. 1,018,408; Feb. 27; Sp. p. 4815; Gaz. vol. 175; p. 853.
Water-heating apparatus. L. J. and J. C. Rissling. No. 1,035,236; Aug. 13; Gaz. vol. 181; p. 310.
Water-heating apparatus. G. H. Gibson. No. 1,036,826; Aug. 27; Gaz. vol. 181; p. 925.
Water-heating device. M. E. Ogden. No. 1,014,170; Jan. 9; Sp. p. 2395; Gaz. vol. 174; p. 401.
Water-heating device, Electric. H. Löfquist. No. 1,026,217; May 14; Sp. p. 2499; Gaz. vol. 178; p. 418.
Water-heating furnace. H. C. English. No. 1,027,327; May 21; Sp. p. 4945; Gaz. vol. 178; p. 832.
Water-heating means. E. Jacobson and A. Wolff. No. 1,038,375; Sept. 10; Gaz. vol. 182; p. 435.
Water in water-closets and the like, Device for the distribution of. F. Berardi. No. 1,018,231; Feb. 20; Sp. p. 4433; Gaz. vol. 175; p. 761.
Water-jacket. H. C. Holthoff. No. 1,047,055; Dec. 10; Gaz. vol. 185; p. 473.
Water-lift. B. F. Strange. No. 1,034,322; July 30; Gaz. vol. 180; p. 1337.
Water-lift, Automatic. G. A. Ferguson and A. Marshall. No. 1,041,452; Oct. 15; Gaz. vol. 183; p. 666.
Water-meter. E. E. Gamon. No. 1,015,552; Jan. 23; Sp. p. 5427; Gaz. vol. 174; p. 930.
Water-meter. E. V. French. No. 1,020,037; Mar. 12; Sp. p. 2196; Gaz. vol. 176; p. 378.
Water-meter. L. H. Nash. No. 1,024,741; Apr. 30; Sp. p. 6462; Gaz. vol. 177; p. 1139.
Water-meter. H. Chrisman. No. 1,031,689; July 9; Gaz. vol. 180; p. 334.
Water-meter. L. H. Nash. No. 1,033,610; July 23; Gaz. vol. 180; p. 1066.
Water-meter. H. I. Dilts. No. 1,033,680; July 23; Gaz. vol. 180; p. 1088.
Water-meter. W. J. McCourt and M. W. Coghlan. No. 1,034,479; Aug. 6; Gaz. vol. 181; p. 25.
Water-meter. J. M. Burton. No. 1,037,431; Sept. 3; Gaz. vol. 182; p. 86.
Water-meter. W. F. Englebright. No. 1,038,327; Sept. 10; Gaz. vol. 182; p. 418.
Water-meter with revolving piston. A. Monard. No. 1,026,992; May 21; Sp. p. 4212; Gaz. vol. 178; p. 718.
Water-mixer. R. K. Yacoobian. No. 1,018,468; Feb. 27; Sp. p. 4938; Gaz. vol. 175; p. 873.
Water-motor. K. H. Menke. No. 1,014,164; Jan. 9; Sp. p. 2384; Gaz. vol. 174; p. 399.
Water-motor. I. H. Dungan. No. 1,017,860; Feb. 20; Sp. p. 3600; Gaz. vol. 175; p. 631.
Water-motor. J. Bauer. No. 1,022,813; Apr. 9; Sp. p. 2275; Gaz. vol. 177; p. 389.
Water-motor. N. V. Johnson. No. 1,024,341; Apr. 23; Sp. p. 5510; Gaz. vol. 177; p. 965.
Water-motor. J. C. Howard. No. 1,031,340; July 2; Gaz. vol. 180; p. 173.
Water-motor. J. O. Farley. No. 1,034,603; Aug. 6; Gaz. vol. 181; p. 66.
Water-motor. B. S. Doyle and A. S. Patton. No. 1,036,587; Aug. 27; Gaz. vol. 181; p. 847.
Water-motor. H. R. Irwin. No. 1,036,630; Aug. 27; Gaz. vol. 181; p. 860.
Water-motor. P. T. Coffield. No. 1,041,242; Oct. 15; Gaz. vol. 183; p. 596.
Water-motor. S. S. Kelehner. No. 1,042,449; Oct. 29; Gaz. vol. 183; p. 1066.
Water-motor. J. Bain. No. 1,044,725; Nov. 19; Gaz. vol. 184; p. 646.
Water-motor. A. Shields. No. 1,046,341; Dec. 3; Gaz. vol. 185; p. 189.

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Water-motor, Impact. W. A. Doble. No. 1,030,393; June 25; Sp. p. 5084; Gaz. vol. 179; p. 906.
Water-motor, Impact. W. A. Doble. No. 1,038,538; Sept. 17; Gaz. vol. 182; p. 527.
Water-motor, Suction. J. O. Kafader. No. 1,033,595; July 23; Gaz. vol. 180; p. 1061.
Water-motor, Undercurrent. H. H. Granger. No. 1,017,409; Feb. 13; Sp. p. 2605; Gaz. vol. 175; p. 442.
Water-pipe-cleaning process. G. W. Redeker. No. 1,034,301; July 30; Gaz. vol. 180; p. 1330.
Water-plug. K. H. Thompson. No. 1,019,558; Mar. 5; Sp. p. 1254; Gaz. vol. 176; p. 186.
Water-power appliance. N. W. Jameson. No. 1,029,127; June 11; Sp. p. 2298; Gaz. vol. 179; p. 398.
Water-power system. T. H. Downward. No. 1,048,664; Dec. 31; Gaz. vol. 185; 1128.
Water-power wheel. S. McClure. No. 1,033,433; July 23; Gaz. vol. 180; p. 1008.
Water, Purification of. J. Patten. No. 1,039,586; Sept. 24; Gaz. vol. 182; p. 907.
Water-purifier. W. A. Freise and T. H. Campbell. No. 1,036,214; Aug. 20; Gaz. vol. 181; p. 686.
Water-purifier. V. B. Hagg. No. 1,038,353; Sept. 10; Gaz. vol. 182; p. 427.
Water-purifier. E. Bergmann. No. 1,038,480; Sept. 10; Gaz. vol. 182; p. 473.
Water purifier and filter, Electric. A. H. Van Pelt. No. 1,020,001; Mar. 12; Sp. p. 2126; Gaz. vol. 176; p. 365.
Water-purifier, Electrolytic. V. B. Hagg. No. 1,038,122; Sept. 10; Gaz. vol. 182; p. 348.
Water-purifying apparatus. D. L. Winters. No. 1,030,366; June 25; Sp. p. 5028; Gaz. vol. 179; p. 897.
Water raising and forcing apparatus, Explosion. G. Poore and H. A. Harvey. No. 1,027,430; May 28; Sp. p. 5170; Gaz. vol. 178; p. 906.
Water-raising apparatus. N. H. Freeman. No. 1,034,703; Aug. 6; Gaz. vol. 181; p. 100.
Water-receptacle. P. Quarelli. No. 1,035,737; Aug. 13; Gaz. vol. 181; p. 481.
Water-regulator. R. B. Parker, Jr. No. 1,028,599; June 4; Sp. p. 1165; Gaz. vol. 179; p. 178
Water-softener. F. M. Strong and J. W. Ferguson. No. 1,048,757; Dec. 31; Gaz. vol. 185; p. 1159.
Water-softening apparatus. C. L. Kennicott. No. 1,017,294; Feb. 13; Sp. p. 2357; Gaz. vol. 175; p. 401.
Water-softening apparatus. S. C. Hanson. No. 1,035,436; Aug. 13; Gaz. vol. 181; p. 381.
Water-softening system. J. T. Lemon. No. 1,022,560; Apr. 9; Sp. p. 1700; Gaz. vol. 177; p. 300.
Water sprinkler or sprayer, Adjustable. E. G. Godfree and F. R. Whitelaw. No. 1,034,613; Aug. 6; Gaz. vol. 181; p. 69.
Water-sterilizing apparatus. S. Held. No. 1,044,653; Nov. 19; Gaz. vol. 184; p. 621.
Water supply and heating system, Portable. E. L. Stockman. No. 1,027,928; May 28; Sp. p. 6240; Gaz. vol. 178; p. 1072.
Water-supply system. C. L. Wilkins. No. 1,015,464; Jan. 23; Sp. p. 5256; Gaz. vol. 174; p. 901.
Water system for domestic purposes, Pneumatic. H. M. Lofton. No. 1,028,121; June 4; Sp. p. 56; Gaz. vol. 179; p. 13.
Water-tank bracket. F. A. Tyler. No. 1,036,752; Aug. 27; Gaz. vol. 181; p. 901.
Water-tower. F. S. Seagrave. No. 1,013,323; Jan. 2; Sp. p. 523; Gaz. vol. 174; p. 83.
Water-treating apparatus. W. H. Green. No. 1,019,784; Mar. 12; Sp. p. 1681; Gaz. vol. 176; p. 293.
Water-treating process. J. E. Caps. No. 1,021,761; Apr. 2; Sp. p. 12; Gaz. vol. 177; p. 5.
Water-tube boiler. R. Schulz. No. 1,015,349; Jan. 23; Sp. p. 4993; Gaz. vol. 174; p. 862.
Water-tube boiler. C. Ward. No. 1,020,234; Mar. 12; Sp. p. 2625; Gaz. vol. 176; p. 445.
Water-tube boiler. L. Steinmüller. No. 1,026,532; May 14; Sp. p. 3170; Gaz. vol. 178; p. 524.
Water-tube boiler. H. F. Bascom. No. 1,035,677; Aug. 13; Gaz. vol. 181; p. 461.
Water-tube boiler. A. F. Yarrow. No. 1,038,812; Sept. 17; Gaz. vol. 182; p. 623.
Water-tube boiler. J. J. Mooney. No. 1,042,709; Oct. 29; Gaz. vol. 183; p. 1158.
Water-tube boiler. H. E. Boyrie. No. 1,044,624; Nov. 19; Gaz. vol. 184; p. 611.
Water-tube boiler. D. S. Jacobus. No. 1,044,660; Nov. 19; Gaz. vol. 184; p. 624.
Water-tube boiler. J. E. Bell. No. 1,045,114; Nov. 26; Gaz. vol. 184; p. 810.
Water-tube boiler. H. F. Bascom. (Reissue.) No. 13,501; Dec. 31; Gaz. vol. 185; p. 1355.
Water-tube boilers and constructing same, Baffle for. F. O. Pahmeyer. No. 1,032,697; July 16; Gaz. vol. 180; p. 723.
Water-tube sectional boiler. H. Barlach. No. 1,030,452; June 25; Sp. p. 5211; Gaz. vol. 179; p. 927.
Water-tubes to water-tube boiler and other drums, Means for attaching. W. D. McNaull. No. 1,021,204; Mar. 26; Sp. p. 4661; Gaz. vol. 176; p. 855.
Water-wheel. G. Verde. No. 1,015,858; Jan. 30; Sp. p. 6090; Gaz. vol. 174; p. 1061.
Water-wheel. R. D. Kelly. No. 1,017,002; Feb. 13; Sp. p. 1719; Gaz. vol. 175; p. 300.
Water-wheel. C. J. Duncan. No. 1,031,430; July 2; Gaz. vol. 180; p. 204.
Water-wheel. F. Trump. No. 1,035,275; Aug. 13; Gaz. vol. 181; p. 323.
Water-wheel. F. T. Clarke. No. 1,035,779; Aug. 13; Gaz. vol. 181; p. 495.
Water-wheel. D. B. Replogle. No. 1,036,003; Aug. 20; Gaz. vol. 181; p. 608.
Water-wheel. E. Olivier. No. 1,038,189; Sept. 10; Gaz. vol. 182; p. 371.
Water-wheel bucket. R. Siegmund. No. 1,037,065; Aug. 27; Gaz. vol. 181; p. 1005.
Water-wheel-gate ring. J. Kincaid. No. 1,015,805; Jan. 30; Sp. p. 5973; Gaz. vol. 174; p. 1045.
Water-wheel safety-stop. C. Jackson. No. 1,042,681; Oct. 29; Gaz. vol. 183; p. 1148.
Water-wheel, Submerged. O. L. Morgenstern. No. 1,013,508; Jan. 2; Sp. p. 912; Gaz. vol. 174; p. 146.
Water-wheel, Tangential-impulse. S. L. Berry. No. 1,017,618; Feb. 13; Sp. p. 3018; Gaz. vol. 175; p. 510.
Water-wheel, Turbine. J. Hay. No. 1,023,378; Apr. 16; Sp. p. 3473; Gaz. vol. 177; p. 620.
Water-wheel, Turbine. J. Hay. No. 1,026,580; May 14; Sp. p. 3257; Gaz. vol. 178; p. 538.
Water-wheels, Automatic regulator for impact. J. Cachin. No. 1,035,082; Aug. 6; Gaz. vol. 181; p. 226.
Water-wheels, Regulating-gate for. S. L. Berry. No. 1,025,240; May 7; Sp. p. 289; Gaz. vol. 178; p. 48.
Waters, Manufacturing mineral. J. Bienz. No. 1,021,087; Mar. 26; Sp. p. 4417; Gaz. vol. 176; p. 818.
Waterer, Hog-. P. Bernard. No. 1,035,306; Aug. 13; Gaz. vol. 181; p. 335.
Waterer, Hog-. P. Bernard. No. 1,041,412; Oct. 15; Gaz. vol. 183; p. 654.
Waterer, Stock-. F. Goellman. No. 1,035,179; Aug. 13; Gaz. vol. 181; p. 291.
Watering device, Automatic hog and stock. G. W. Fletcher. No. 1,025,461; May 7; Sp. p. 791; Gaz. vol. 178; p. 123.
Watering device, Plant-. G. R. Couls. No. 1,029,107; June 11; Sp. p. 2256; Gaz. vol. 179; p. 385.
Watering device, Stock-. F. E. Williamson. No. 1,016,809; Feb. 6; Sp. p. 1286; Gaz. vol. 175; p. 197.
Watering or feed trough, Self-cleaning. E. P. Rose. No. 1,037,054; Aug. 27; Gaz. vol. 181; p. 1002.
Watering-trough. J. E. Hutchins. No. 1,033,018; July 16; Gaz. vol. 180; p. 829.
Watering-trough. J. S. Tod. No. 1,042,056; Oct. 22; Gaz. vol. 183; p. 906.
Watermarking device. H. M. Howard. No. 1,045,144; Nov. 26; Gaz. vol. 184; p. 819.
Waterproof bag. W. J. Graham. No. 1,038,351; Sept. 10; Gaz. vol. 182; p. 426.
Waterproof battery and making same. R. V. Villiers. No. 1,027,088; May 21; Sp. p. 4466; Gaz. vol. 178; p. 753.
Waterproof garment. J. E. Weil. No. 1,025,893; May 7; Sp. p. 1761; Gaz. vol. 178; p. 270.
Waterproof material. F. Jacob. No. 1,024,135; Apr. 23; Sp. p. 5095; Gaz. vol. 177; p. 896.
Waterproofing. C. D. Brown. No. 1,049,202; Dec. 31; Gaz. vol. 185; p. 1312.
Waterproofing and preserving composition. A. J. Tucker. No. 1,020,857; Mar. 19; Sp. p. 3954; Gaz. vol. 176; p. 689.
Waterproofing compound. A. C. Horn. No. 1,031,003; July 2; Gaz. vol. 180; p. 54.
Waterproofing linen or other textile articles and giving them a permanent glazed washable surface. A. A. A. Zimmer. No. 1,025,731; May 7; Sp. p. 1382; Gaz. vol. 178; p. 215.
Waterways, Channeling-machine for. G. W. Churchill. No. 1,032,043; July 9; Gaz. vol. 180; p. 455.
Wave and current motor. M. E. Boots. No. 1,029,788; June 18; Sp. p. 3732; Gaz. vol. 179; p. 657.
Wave and tide motor. F. D. Chappell. No. 1,016,400; Feb. 6; Sp. p. 369; Gaz. vol. 175; p. 58.
Wave-calming device. F. Christiansen. No. 1,035,689; Aug. 13; Gaz. vol. 181; p. 466.
Wave-energy motor. D. K. Bryson. No. 1,021,572; Mar. 26; Sp. p. 5474; Gaz. vol. 176; p. 983.
Wave-energy motor. C. M. Rhodes. No. 1,044,912; Nov. 19; Gaz. vol. 184; p. 711.
Wave-energy motor. C. M. Rhodes. No. 1,044,913; Nov. 19; Gaz. vol. 184; p. 712.
Wave-engine. A. L. Runyan. No. 1,043,732; Nov. 5; Gaz. vol. 184; p. 241.
Wave-force-utilizing device. E. B. Arnold. No. 1,024,816; Apr. 30; Sp. p. 6626; Gaz. vol. 177; p. 1166.
Wave-meter. F. W. Midgley. No. 1,018,769; Feb. 27; Sp. p. 5650; Gaz. vol. 175; p. 976.
Wave-motor. F. Brown. No. 1,018,161; Feb. 20; Sp. p. 4294; Gaz. vol. 175; p. 737.
Wave-motor. F. M. Nelson. No. 1,018,678; Feb. 27; Sp. p. 5450; Gaz. vol. 175; p. 945.

Alphabetical list of inventions—Continued.

Wave-motor. J. W. Denny. No. 1,019,027; Mar. 5; Sp. p. 25; Gaz. vol. 176; p. 7.
Wave-motor. J. F. Barker. No. 1,020,340; Mar. 12; Sp. p. 2812; Gaz. vol. 176; p. 477.
Wave-motor. E. M. Hamilton. No. 1,025,395; May 7; Sp. p. 643; Gaz. vol. 178; p. 100.
Wave-motor. H. J. Snook. No. 1,025,929; May 7; Sp. p. 1830; Gaz. vol. 178; p. 283.
Wave-motor. J. W. Neal. No. 1,026,450; May 14; Sp. p. 3010; Gaz. vol. 178; p. 496.
Wave-motor. J. Kindleberger. No. 1,032,337; July 9; Gaz. vol. 180; p. 555.
Wave-motor. J. Nyswander. No. 1,032,343; July 9; Gaz. vol. 180; p. 557.
Wave-motor. J. W. East. No. 1,032,996; July 16; Gaz. vol. 180; p. 821.
Wave-motor. O. Schulze. No. 1,033,476; July 23; Gaz. vol. 180; p. 1022.
Wave-motor. J. Nyswander. No. 1,033,923; July 30; Gaz. vol. 180; p. 1198.
Wave-motor. L. L. Read and M. O. Dowell. No. 1,035,049; Aug. 6; Gaz. vol. 181; p. 215.
Wave-motor. H. A. and H. R. Reif. No. 1,035,469; Aug. 13; Gaz. vol. 181; p. 392.
Wave-motor. N. G. Olson and A. T. Barrows. No. 1,037,041; Aug. 27; Gaz. vol. 181; p. 997.
Wave-motor. R. D. Wirt. No. 1,037,390; Sept. 3; Gaz. vol. 182; p. 71.
Wave-motor. F. C. Bates. No. 1,039,081; Sept. 24; Gaz. vol. 182; p. 728.
Waves, Apparatus for calming sea-. W. Meÿer. No. 1,043,125; Nov. 5; Gaz. vol. 184; p. 27.
Wax and the like, Shredder for paraffin-. J. F. Craven. No. 1,036,966; Aug. 27; Gaz. vol. 181; p. 971.
Wax, Apparatus for the extraction of. E. C. Smith and A. Waterhouse. No. 1,036,738; Aug. 27; Gaz. vol. 181; p. 895.
Wax-extracting apparatus, Vegetable-. W. Erben. No. 1,033,684; July 23; Gaz. vol. 180; p. 1089.
Wax finish, Liquid. J. D. Bryant. No. 1,020,634; Mar. 19; Sp. p. 3470; Gaz. vol. 176; p. 613.
Wax flowers, Manufacturing. M. Werbatus. No. 1,029,777; June 18; Sp. p. 3706; Gaz. vol. 179; p. 653.
Wax from the candelilla-plant, Extracting. B. Y. Sharp. No. 1,018,589; Feb. 27; Sp. p. 5276; Gaz. vol. 175; p. 916.
Wax or like mixtures (compositions) of substances which melt at different temperatures, Sweating crude paraffin-. D. Pyzel. No. 1,040,408; Oct. 8; Gaz. vol. 183; p. 277.
Wax-press. J. Hansen. No. 1,023,844; Apr. 23; Sp. p. 4430; Gaz. vol. 177; p. 796.
Wax, Treating the candelilla-plant for the recovery of. W. S. Watson. No. 1,042,992; Oct. 29; Gaz. vol. 183; p. 1255.
Weaner, Calf-. C. Johnson. No. 1,033,903; July 30; Gaz. vol. 180; p. 1191.
Weapons, Sighting of short-barreled. W. E. Steers. No. 1,021,905; Apr. 2; Sp. p. 322; Gaz. vol. 177; p. 53.
Wear-resisting member. A. Raiche. No. 1,027,899; May 28; Sp. p. 6197; Gaz. vol. 178; p. 1063.
Weather-shield. C. A. Carscadin. No. 1,028,861; June 11; Sp. p. 1711; Gaz. vol. 179; p. 300.
Weather-strip. L. Knott. No. 1,016,419; Feb. 6; Sp. p. 407; Gaz. vol. 175; p. 64.
Weather-strip. R. B. Swart. No. 1,017,340; Feb. 13; Sp. p. 2455; Gaz. vol. 175; p. 417.
Weather-strip. A. M. Lane. No. 1,020,992; Mar. 26; Sp. p. 4229; Gaz. vol. 176; p. 785.
Weather-strip. W. Butler. No. 1,032,273; July 9; Gaz. vol. 180; p. 533.
Weather-strip. C. E. Aldred. No. 1,035,070; Aug. 6; Gaz. vol. 181; p. 222.
Weather-strip. J. Baumruk. No. 1,037,720; Sept. 3; Gaz. vol. 182; p. 182.
Weather-strip. G. L. Godfrey. No. 1,048,407; Dec. 24; Gaz. vol. 185; p. 999.
Weather-strip and sash-lock, Combined. S. W. Horst. No. 1,043,106; Nov. 5; Gaz. vol. 184; p. 20.
Weather-strip, Metal. A. M. Lane. No. 1,020,993; Mar. 26; Sp. p. 4231; Gaz. vol. 176; p. 786.
Weather-strip, Metal. P. L. Hedberg. No. 1,033,694; July 23; Gaz. vol. 180; p. 1092.
Weather-strip, Metallic. L. Knott. No. 1,040,355; Oct. 8; Gaz. vol. 183; p. 259.
Weave. J. C. Gaynor. No. 1,037,752; Sept. 3; Gaz. vol. 182; p. 192.
Weaving, Harness for cross-. J. Kaufmann. No. 1,037,150; Aug. 27; Gaz. vol. 181; p. 1033.
Weaving, Harness for cross-. J. Kaufmann. No. 1,037,151; Aug. 27; Gaz. vol. 181; p. 1033.
Weaving machines, Heddle for leno-. W. P. Wood. No. 1,031,977; July 9; Gaz. vol. 180; p. 433.
Weaving tubular goods, Machine for. W. Murphy. No. 1,014,716; Jan. 16; Sp. p. 3618; Gaz. vol. 174; p. 619.
Web-cutting mechanism. H. Peuckert. No. 1,040,006; Oct. 1; Gaz. vol. 183; p. 111.
Web or film feeding mechanism. J. Urie. No. 1,043,275; Nov. 5; Gaz. vol. 184; p. 81.
Web-perforating mechanism. J. Bengough. No. 1,018,155; Feb. 20; Sp. p. 4282; Gaz. vol. 175; p. 735.
Web-roll brake mechanism. G. A. Menendez. No. 1,028,244; June 4; Sp. p. 407; Gaz. vol. 179; p. 58.
Webs, Device for guiding traveling. J. A. Weser. No. 1,048,614; Dec. 31; Gaz. vol. 185; p. 1109.
Wedge. W. Walters. No. 1,032,316; July 9; Gaz. vol. 180; p. 548.
Wedge. E. P. Ballou. No. 1,034,860; Aug. 6; Gaz. vol. 181; p. 155.
Wedge and clamp for holding loggers' falling-boards, Combined. T. E. Going. No. 1,018,899; Feb. 27; Sp. p. 5911; Gaz. vol. 175; p. 1020.
Wedge-bolt for locomotive-pedestals and the like. E. E. Yost. No. 1,037,100; Aug. 27; Gaz. vol. 181; p. 1017.
Wedge-key. W. G. Kirchhoff. No. 1,025,278; May 7; Sp. p. 372; Gaz. vol. 178; p. 60.
Wedge mechanism. C. W. King. No. 1,045,984; Dec. 3; Gaz. vol. 185; p. 64.
Wedge-splitter. J. Agy. No. 1,027,458; May 28; Sp. p. 5214; Gaz. vol. 178; p. 914.
Weed-cutter. J. Smith. No. 1,041,522; Oct. 15; Gaz. vol. 183; p. 690.
Weed-cutter. J. F. Schurle. No. 1,047,578; Dec. 17; Gaz. vol. 185; p. 691.
Weed-destroyer. L. Luckhoff. No. 1,020,614; Mar. 19; Sp. p. 3422; Gaz. vol. 176; p. 606.
Weed-destroying composition. I. F. Orton. No. 1,020,049; Mar. 12; Sp. p. 2218; Gaz. vol. 176; p. 382.
Weed-digger. R. R. Damoude. No. 1,036,578; Aug. 27; Gaz. vol. 181; p. 844.
Weed-exterminator. C. Matejowitz. No. 1,047,262; Dec. 17; Gaz. vol. 185; p. 578.
Weed-extracting tool. A. T. Auter. No. 1,025,360; May 7; Sp. p. 566; Gaz. vol. 178; p. 88.
Weed-hook. P. H. Chase. No. 1,036,191; Aug. 20; Gaz. vol. 181; p. 676.
Weed-killing composition. H. O. Owen. No. 1,039,317; Sept. 24; Gaz. vol. 182; p. 812.
Weed-puller. W. H. Harris. No. 1,020,094; Mar. 12; Sp. p. 2313; Gaz. vol. 176; p. 397.
Weed-puller. J. Dahl. No. 1,024,500; Apr. 30; Sp. p. 5904; Gaz. vol. 177; p. 1055.
Weeder. G. G. McTaggart. No. 1,022,103; Apr. 2; Sp. p. 739; Gaz. vol. 177; p. 118.
Weeder. L. Owen, Jr. No. 1,028,059; May 28; Sp. p. 6507; Gaz. vol. 178; p. 1113.
Weeder. H. W. Horton. No. 1,033,698; July 23; Gaz. vol. 180; p. 1094.
Weeder. J. C. Lindsey. No. 1,036,283; Aug. 20; Gaz. vol. 181; p. 709.
Weeder. U. G. Colwell. No. 1,046,271; Dec. 3; Gaz. vol. 185; p. 165.
Weeder. I. E. Wind. No. 1,049,188; Dec. 31; Gaz. vol. 185; p. 1307.
Weeder and furrower. N. B. Winn. No. 1,023,701; Apr. 16; Sp. p. 4104; Gaz. vol. 177; p. 720.
Weeding and cultivating tool. J. W. Oltmann. No. 1,035,226; Aug. 13; Gaz. vol. 181; p. 306.
Weeding device. F. W. and C. J. Behrendt. No. 1,039,012; Sept. 17; Gaz. vol. 182; p. 690.
Weeding-hook. J. J. Hess. No. 1,039,056; Sept. 17; Gaz. vol. 182; p. 702.
Weevil machine, Boll-. T. Lucas. No. 1,046,206; Dec. 3; Gaz. vol. 185; p. 140.
Weevils, Destroying cotton-boll. W. Newell. No. 1,026,599; May 14; Sp. p. 3293; Gaz. vol. 178; p. 544.
Weft-replenishing looms, Transfer mechanism for. E. H. Ryon. No. 1,032,709; July 16; Gaz. vol. 180; p. 727.
Weigher, Automatic. H. L. Merrick. No. 1,018,068; Feb. 20; Sp. p. 4094; Gaz. vol. 175; p. 705.
Weigher, Automatic grain-. W. F. Hilfiker. No. 1,037,249; Sept. 3; Gaz. vol. 182; p. 25.
Weigher, Automatic grain-. E. L. Adams. No. 1,039,471; Sept. 24; Gaz. vol. 182; p. 865.
Weighing and filling machine. G. Hoepner. No. 1,044,527; Nov. 19; Gaz. vol. 184; p. 577.
Weighing and measuring apparatus, Portable self-contained. H. E. Maine. No. 1,015,739; Jan. 23; Sp. p. 5838; Gaz. vol. 174; p. 995.
Weighing and packaging machine. G. W. Gwinn. No. 1,020,693; Mar. 19; Sp. p. 3598; Gaz. vol. 176; p. 632.
Weighing apparatus. H. E. T. Haultain and E. S. Wiard. No. 1,038,363; Sept. 10; Gaz. vol. 182; p. 429.
Weighing apparatus. G. Jones. No. 1,046,797; Dec. 10; Gaz. vol. 185; p. 389.
Weighing apparatus, Automatic. E. G. Hedman. No. 1,015,561; Jan. 23; Sp. p. 5450; Gaz. vol. 174; p. 933.
Weighing apparatus, Counterweight mechanism for. E. G. Hedman. No. 1,045,401; Nov. 26; Gaz. vol. 184; p. 908.
Weighing apparatus for refrigerators. F. B. Harrington. No. 1,024,335; Apr. 23; Sp. p. 5503; Gaz. vol. 177; p. 964.
Weighing apparatus, Registering. H. E. T. Haultain. No. 1,029,120; June 11; Sp. p. 2280; Gaz. vol. 179; p. 389.
Weighing device. C. E. Dennison. No. 1,031,917; July 9; Gaz. vol. 180; p. 413.
Weighing device, Automatic. T. Zollner. No. 1,044,965; Nov. 19; Gaz. vol. 184; p. 729.
Weighing-machine. J. F. Perkins. No. 1,016,850; Feb. 6; Sp. p. 1359; Gaz. vol. 175; p. 210.

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Weighing-machine. J. M. Chappel. No. 1,021,134; Mar. 26; Sp. p. 4515; Gaz. vol. 176; p. 832.
Weighing-machine. H. Pooley. No. 1,028,604; June 4; Sp. p. 1174; Gaz. vol. 179; p. 179.
Weighing-machine. F. Koch. No. 1,033,420; July 23; Gaz. vol. 180; p. 1004.
Weighing-machine. J. P. Clifford and S. G. Murray. No. 1,044,353; Nov. 12; Gaz. vol. 184; p. 487.
Weighing-machine, Automatic. J. Nield. No. 1,014,717; Jan. 16; Sp. p. 3619; Gaz. vol. 174; p. 620.
Weighing-machine, Automatic. J. Hefter. No. 1,019,323; Mar. 5; Sp. p. 715; Gaz. vol. 176; p. 111.
Weighing-machine, Hydrostatic. W. H. Kenerson. No. 1,023,154; Apr. 16; Sp. p. 3033; Gaz. vol. 177; p. 544.
Weighing machine, Liquid-. C. J. Wilder. No. 1,024,874; Apr. 30; Sp. p. 6746; Gaz. vol. 177; p. 1187.
Weighing means or scale for wagons. J. A. Ashley-Reavis. No. 1,022,811; Apr. 9; Sp. p. 2270; Gaz. vol. 177; p. 388.
Weighing mechanism. J. Paupa and G. F. Hochriem. No. 1,043,353; Nov. 5; Gaz. vol. 184; p. 110.
Weighing mechanism, Automatic. W. Deats. No. 1,013,136; Jan. 2; Sp. p. 89; Gaz. vol. 174; p. 16.
Weighing mechanism, Automatic. G. W. Gwinn. No. 1,020,692; Mar. 19; Sp. p. 3589; Gaz. vol. 176; p. 631.
Weight-cord-fastening device. T. M. House. No. 1,045,553; Nov. 26; Gaz. vol. 184; p. 965.
Weight-motor. S. W. Gilliland. No. 1,021,749; Mar. 26; Sp. p. 5799; Gaz. vol. 176; p. 1041.
Weight-motor. A. C. Geiger. No. 1,029,285; June 11; Sp. p. 2629; Gaz. vol. 179; p. 446.
Weight-motor. G. Schwartz. No. 1,033,830; July 30; Gaz. vol. 180; p. 1165.
Weight-recording mechanism. H. E. T. Haultain. No. 1,029,119; June 11; Sp. p. 2278; Gaz. vol. 179; p. 389.
Weight safety device. A. E. Newton. No. 1,019,517; Mar. 5; Sp. p. 1171; Gaz. vol. 176; p. 174.
Weir and flood-gate. H. Davey. No. 1,040,159; Oct. 1; Gaz. vol. 183; p. 164.
Weir, Prorating-. J. C. and J. N. Penfield. No. 1,037,656; Sept. 3; Gaz. vol. 182; p. 161.
Weir-shutter, Pneumatic. J. Ashford and S. Leggett. No. 1,040,112; Oct. 1; Gaz. vol. 183; p. 148.
Welded wire chains, rings, &c., Machine for automatically manufacturing. C. L. Graves. No. 1,029,865; June 18; Sp. p. 3926; Gaz. vol. 179; p. 683.
Welding. E. G. Budd and J. H. Gravell. No. 1,042,885; Oct. 29; Gaz. vol. 183; p. 1219.
Welding apparatus. J. H. Gravell. No. 1,041,778; Oct. 22; Gaz. vol. 183; p. 812.
Welding apparatus. E. Dolensky. No. 1,042,411; Oct. 29; Gaz. vol. 183; p. 1052.
Welding apparatus, Electric. A. E. Buchenberg. No. 1,019,299; Mar. 5; Sp. p. 657; Gaz. vol. 176; p. 103.
Welding apparatus, Electrical. J. Beckmann. No. 1,019,017; Mar. 5; Sp. p. 10; Gaz. vol. 176; p. 4.
Welding apparatus, Metal-. E. R. Rosen-Baum. No. 1,032,431; July 16; Gaz. vol. 180; p. 631.
Welding apparatus, Seam-. R. F. Nailler. No. 1,031,812; July 9; Gaz. vol. 180; p. 377.
Welding apparatus, Traveling electric. J. A. Osborn. No. 1,042,466; Oct. 29; Gaz. vol. 183; p. 1072.
Welding-burner H. H. Lanning. No. 1,038,765; Sept. 17; Gaz. vol. 182; p. 606.
Welding by electricity, Apparatus for. W. D. Bartlett. No. 1,048,642; Dec. 31; Gaz. vol. 185; p. 1119.
Welding chain-links, Machine for. L. Roehr. (Reissue.) No. 13,371; Feb. 20; Sp. p. 4793; Gaz. vol. 175; p. 821.
Welding copper. R. C. Davidson. No. 1,013,134; Jan. 2; Sp. p. 88; Gaz. vol. 174; p. 16.
Welding copper or nickel and copper or nickel alloy. W. Schieber. No. 1,013,620; Jan. 2; Sp. p. 1149; Gaz. vol. 174; p. 183.
Welding device. J. F. Gillespie and A. Colbert. No. 1,048,148; Dec. 24; Gaz. vol. 185; p. 914.
Welding, Electric. L. S. Lachman. No. 1,020,991; Mar. 26; Sp. p. 4227; Gaz. vol. 176; p. 785.
Welding, Electric. H. F. Parish. No. 1,034,290; July 30; Gaz. vol. 180; p. 1327.
Welding, Electric. L. S. Lachman. No. 1,038,604; Sept. 17; Gaz. vol. 182; p. 549.
Welding, Electric. A. L. Johnson. No. 1,039,135; Sept. 24; Gaz. vol. 182; p. 746.
Welding, Electric. A. L. Johnson. No. 1,039,137; Sept. 24; Gaz. vol. 182; p. 747.
Welding, Electric. A. L. Johnson. No. 1,039,138; Sept. 24; Gaz. vol. 182; p. 747.
Welding, Electric. J. Harmatta. No. 1,046,066; Dec. 3; Gaz. vol. 185; p. 91.
Welding-machine. A. Metzger. No. 1,029,389; June 11; Sp. p. 2887; Gaz. vol. 179; p. 482.
Welding-machine. H. Geisenhöner. No. 1,036,605; Aug. 27; Gaz. vol. 181; p. 853.
Welding machine, Chain-. M. B. Ryan. No. 1,023,129; Apr. 16; Sp. p. 2968; Gaz. vol. 177; p. 535.
Welding-machine, Electric. J. A. Heany. No. 1,015,492; Jan. 23; Sp. p. 5314; Gaz. vol. 174; p. 911.
Welding-machine, Electric. A. C. Taylor. No. 1,021,732; Mar. 26; Sp. p. 5765; Gaz. vol. 176; p. 1035.
Welding-machine, Electric. M. B. Ryan. No. 1,023,130; Apr. 16; Sp. p. 2973; Gaz. vol. 177; p. 535.
Welding-machine, Electric. F. Warren. No. 1,046,239; Dec. 3; Gaz. vol. 185; p. 154.
Welding-machine, Electric. F. Warren. No. 1,046,240; Dec. 3; Gaz. vol. 185; p. 154.
Welding-machine, Electric. R. C. Pierce. No. 1,046,639; Dec. 10; Gaz. vol. 185; p. 332.
Welding machine, Electric chain-. M. B. Ryan. No. 1,023,127; Apr. 16; Sp. p. 2956; Gaz. vol. 177; p. 534.
Welding machine, Electric chain-. A. F. Rietzel and G. E. Barstow. No. 1,040,760; Oct. 8; Gaz. vol. 183; p. 402.
Welding-machine, Electrical. M. B. Ryan. No. 1,023,128; Apr. 16; Sp. p. 2962; Gaz. vol. 177; p. 535.
Welding, Machine for and method of electric. E. I. Heinsohn and W. R. Edwards. No. 1,035,964; Aug. 20; Gaz. vol. 181; p. 596.
Welding machine, Metal-. F. W. Milek. No. 1,041,838; Oct. 22; Gaz. vol. 183; p. 834.
Welding machine, Tube-. J. Snyder and A. Thomas. No. 1,019,852; Mar. 12; Sp. p. 1804; Gaz. vol. 176; p. 316.
Welding metals. A. Lucas. No. 1,021,318; Mar. 26; Sp. p. 4902; Gaz. vol. 176; p. 896.
Welding or cutting apparatus. J. W. Whitford. No. 1,028,166; June 4; Sp. p. 250; Gaz. vol. 179; p. 30.
Welding plant. N. J. Anderson. No. 1,047,140; Dec. 17; Gaz. vol. 185; p. 533.
Welding process and apparatus. F. C. Perkins. No. 1,037,979; Sept. 10; Gaz. vol. 182; p. 304.
Welding soft-metal to hard-metal bodies. J. A. Auth. No. 1,040,606; Oct. 8; Gaz. vol. 183; p. 348.
Welding-tool, Portable electric. J. W. Sheffer. No. 1,045,332; Nov. 26; Gaz. vol. 184; p. 885.
Welding-torch, Acetylene-oxygen. J. D. Frear. No. 1,049,222; Dec. 31; Gaz. vol. 185; p. 1318.
Well. I. N. Terrill. No. 1,031,596; July 2; Gaz. vol. 180; p. 259.
Well-apparatus attachment, Oil-. J. W. Leonard and M. E. Brown. No. 1,031,562; July 2; Gaz. vol. 180; p. 247.
Well apparatus, Oil-. C. W. Davisson. No. 1,034,698; Aug. 6; Gaz. vol. 181; p. 98.
Well attachment, Oil-. N. M. Frazer. No. 1,017,663; Feb. 20; Sp. p. 3121; Gaz. vol. 175; p. 563.
Well boring and casing machine. S. Jackson. No. 1,026,589; May 14; Sp. p. 3273; Gaz. vol. 178; p. 541.
Well boring and drilling machine, Portable. H. H. Haight. No. 1,038,877; Sept. 17; Gaz. vol. 182; p. 645.
Well-boring apparatus. R. H. Canfield. No. 1,024,310; Apr. 23; Sp. p. 5460; Gaz. vol. 177; p. 957.
Well-boring apparatus. J. B. Norris. No. 1,044,073; Nov. 12; Gaz. vol. 184; p. 392.
Well-boring apparatus, Deep-. J. H. Herman and B. J. Weger. No. 1,046,294; Dec. 3; Gaz. vol. 185; p. 173.
Well-boring tool. F. E. Tucker. No. 1,025,339; May 7; Sp. p. 514; Gaz. vol. 178; p. 80.
Well-boring tool. A. Rotinoff. No. 1,049,151; Dec. 31; Gaz. vol. 185; p. 1295.
Well-casing. F. F. Hill. No. 1,020,696; Mar. 19; Sp. p. 3606; Gaz. vol. 176; p. 633.
Well-casing. A. Smith. No. 1,028,065; May 28; Sp. p. 6522; Gaz. vol. 178; p. 1115.
Well casing and apparatus for sinking the same, Sand-. A. P. Schnyder. No. 1,038,973; Sept. 17; Gaz. vol. 182; p. 677.
Well casing and packing therefor, Oil-. C. W. Randolph. No. 1,043,723; Nov. 5; Gaz. vol. 184; p. 238.
Well casing-head, Oil and gas. A. G. Nolan. No. 1,035,630; Aug. 13; Gaz. vol. 181; p. 446.
Well-casing joint. A. G. Felker. No. 1,044,873; Nov. 19; Gaz. vol. 184; p. 698.
Well-casing machine. E. J. Pennypacker. No. 1,040,252; Oct. 1; Gaz. vol. 183; p. 194.
Well-casing, Making. A. Smith. No. 1,027,917; May 28; Sp. p. 6225; Gaz. vol. 178; p. 1069.
Well-casing, Making. A. Smith. No. 1,028,066; May 28; Sp. p. 6526; Gaz. vol. 178; p. 1116.
Well-casing shoe. F. M. Nevins. No. 1,043,343; Nov. 5; Gaz. vol. 184; p. 107.
Well-cleaner. D. Fry. No. 1,013,933; Jan. 9; Sp. p. 1893; Gaz. vol. 174; p. 322.
Well-cleaning apparatus, Oil-. M. W. Marsden. No. 1,041,501; Oct. 15; Gaz. vol. 183; p. 682.
Well-drill. F. France. No. 1,022,472; Apr. 9; Sp. p. 1520; Gaz. vol. 177; p. 273.
Well-drilling machine. C. F. Gulde. No. 1,013,654; Jan. 2; Sp. p. 1249; Gaz. vol. 174; p. 196.
Well-drilling machine. G. B. Kelley. No. 1,023,207; Apr. 16; Sp. p. 3144; Gaz. vol. 177; p. 563.
Well-drilling machine. F. A. Heberling. No. 1,026,508; May 14; Sp. p. 3124; Gaz. vol. 178; p. 516.
Well-drilling machine. R. C. Fagan. No. 1,049,068; Dec. 31; Gaz. vol. 185; p. 1267.
Well-drilling rig. T. W. Connolly. No. 1,033,990; July 30; Gaz. vol. 180; p. 1222.
Well-drilling tool. R. L. Porter and G. D. Watson. No. 1,019,357; Mar. 5; Sp. p. 807; Gaz. vol. 176; p. 121.
Well-fixture. V. T. Grabs. No. 1,035,783; Aug. 13; Gaz. vol. 181; p. 497.
Well mechanism. M. E. Layne. (Reissue.) No. 13,467; Sept. 24; Gaz. vol. 182; p. 939.
Well packer, Deep-. D. W. Black. No. 1,035,850; Aug. 20; Gaz. vol. 181; p. 558.

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Well packer, Oil or Artesian. R. C. Baker. No. 1,037,850; Sept. 10; Gaz. vol. 182; p. 257.
Well packers, Water-discharge attachment for deep-. G. F. Hovis. (Reissue.) No. 13,457; Aug. 13; Gaz. vol. 181; p. 512.
Well-packing. E. G. Boutte. No. 1,034,963; Aug. 6; Gaz. vol. 181; p. 188.
Well-points, Tool for extracting. B. G. Horling. No. 1,026,509; May 14; Sp. p. 3127; Gaz. vol. 178; p. 516.
Well pulling, cleaning, and drilling machine. L. W. Fetzer. No. 1,041,453; Oct. 15; Gaz. vol. 183; p. 667.
Well-reaming implement. A. P. Buck and M. C. Benedict. No. 1,045,670; Nov. 26; Gaz. vol. 184; p. 1007.
Well rigs, Sand-reel for oil-. R. H. Machin. No. 1,035,982; Aug. 20; Gaz. vol. 181; p. 602.
Well-screen. E. E. Johnson. No. 1,040,342; Oct. 8; Gaz. vol. 183; p. 255.
Well-screen, Armored. C. L. Michod. No. 1,019,986; Mar. 12; Sp. p. 2091; Gaz. vol. 176; p. 360.
Well-sinking apparatus. G. R. Moore. No. 1,018,725; Feb. 27; Sp. p. 5549; Gaz. vol. 175; p. 960.
Well-sinking apparatus. M. T. Chapman. No. 1,044,349; Nov. 12; Gaz. vol. 184; p. 486.
Well-strainers, Means for setting. R. M. Galbraith. No. 1,042,425; Oct. 29; Gaz. vol. 183; p. 1058.
Well-tile-driving device. J. Griffiths. No. 1,035,183; Aug. 13; Gaz. vol. 181; p. 292.
Well-top. W. H. Kimball. No. 1,045,037; Nov. 19; Gaz. vol. 184; p. 755.
Well-tube vent. F. G. Garrard. No. 1,041,770; Oct. 22; Gaz. vol. 183; p. 809.
Well-tubing anchor. R. C. Baker. No. 1,023,292; Apr. 16; Sp. p. 3310; Gaz. vol. 177; p. 591.
Well-tubing lock. A. K. McKee. No. 1,028,759; June 4; Sp. p. 1491; Gaz. vol. 179; p. 231.
Well-tubing safety appliance. S. A. Gulberson, Jr. No. 1,030,084; June 18; Sp. p. 4400; Gaz. vol. 179; p. 759.
Well wall-packer. J. J. Scott. No. 1,034,737; Aug. 6; Gaz. vol. 181; p. 112.
Wells, Apparatus for saving gas and oil from producing-. E. A. Starke. No. 1,040,806; Oct. 8; Gaz. vol. 183; p. 417.
Wells, Extracting appliance for use in oil or gas. A. P. McBride. No. 1,017,305; Feb. 13; Sp. p. 2387; Gaz. vol. 175; p. 406.
Wells, Sampling device for Artesian. W. I. Bettis. No. 1,023,918; Apr. 23; Sp. p. 4615; Gaz. vol. 177; p. 821.
Wells, Tool for oil and like. C. W. Bell. No. 1,036,547; Aug. 27; Gaz. vol. 181; p. 832.
Wells, Wall-packer for oil-. C. A. Waitz. No. 1,014,272; Jan. 9; Sp. p. 2624; Gaz. vol. 174; p. 438.
Welt-attaching apparatus. G. Goddu. No. 1,048,149; Dec. 24; Gaz. vol. 185; p. 914.
Welt-butting machine. E. E. Winkley. No. 1,018,858; Feb. 27; Sp. p. 5821; Gaz. vol. 175; p. 1006.
Welt-butting machine. E. E. Winkley. No. 1,018,859; Feb. 27; Sp. p. 5830; Gaz. vol. 175; p. 1006.
Welt-butting machine. E. E. Winkley. No. 1,029,837; June 18; Sp. p. 3843; Gaz. vol. 179; p. 674.
Welt-butting machine. G. L. Rollins. No. 1,030,612; June 25; Sp. p. 5715; Gaz. vol. 179; p. 985.
Welt-butting machine. G. L. Rollins. No. 1,030,613; June 25; Sp. p. 5719; Gaz. vol. 179; p. 986.
Welt-guide. P. A. Coupal. No. 1,030,285; June 25; Sp. p. 4842; Gaz. vol. 179; p. 866.
Welt-guide. J. T. McIsaac. No. 1,030,741; June 25; Sp. p. 6049; Gaz. vol. 179; p. 1031.
Welt-guide mechanism. J. V. Allen. No. 1,034,857; Aug. 6; Gaz. vol. 181; p. 154.
Welt-preparing machine. A. Eppler. No. 1,020,346; Mar. 12; Sp. p. 2827; Gaz. vol. 176; p. 479.
Welt-preparing machine. A. Eppler. No. 1,026,306; May 14; Sp. p. 2681; Gaz. vol. 178; p. 448.
Whalebone by hand, Splitting. M. Weishaus. No. 1,039,860; Oct. 1; Gaz. vol. 183; p. 64.
Wheat-heater. J. G. Hagmann. No. 1,026,743; May 21; Sp. p. 3632; Gaz. vol. 178; p. 631.
Wheat, Treatment of germ of. J. Wallis. No. 1,021,119; Mar. 26; Sp. p. 4476; Gaz. vol. 176; p. 827.
Wheel: *See* Abrading-wheel; Automobile-wheel; Automobile spring-wheel; Balance-wheel; Bucket-wheel; Car-wheel; Caster-wheel; Centrifugal fan-wheel; Convertible-tread wheel; Cushion-wheel; Cushion-tired wheel; Detachable wheel; Elastic wheel; Escapement-wheel; Excavator-wheel; Fan-wheel; Fifth-wheel; Fly-wheel; Free-running wheel; Friction-wheel; Gear-wheel; Grinding and buffing wheel; Locomotive drive-wheel; Lubricating-wheel; Metallic wheel; Motor-wheel; Paddle-wheel; Pneumatic wheel; Pneumatic-cushioned wheel; Power-wheel; Printing-wheel; Propeller-wheel; Pumping-machine band-wheel; Push-wheel; Resilient wheel; Resilient vehicle-wheel; Spring-wheel; Spring-cushioned wheel; Sprocket-wheel; Steering-wheel; Toy wheel; Traction-wheel; Trolley-wheel; Turbine-wheel; Vehicle-wheel; Vehicle road-wheel; Watch center wheel; Water-wheel; Water-power wheel; Wind-wheel; Wire-spoked wheel.
Wheel. W. W. Byam. No. 1,013,273; Jan. 2; Sp. p. 401; Gaz. vol. 174; p. 65.
Wheel. L. G. Handy. No. 1,013,994; Jan. 9; Sp. p. 2023; Gaz. vol. 174; p. 342.
Wheel. L. G. Handy. No. 1,013,995; Jan. 9; Sp. p. 2027; Gaz. vol. 174; p. 342.
Wheel. L. G. Handy. No. 1,013,996; Jan. 9; Sp. p. 2030; Gaz. vol. 174; p. 342.
Wheel. L. G. Handy. No. 1,013,997; Jan. 9; Sp. p. 2033; Gaz. vol. 174; p. 343.
Wheel. L. G. Handy. No. 1,013,998; Jan. 9; Sp. p. 2035; Gaz. vol. 174; p. 343.
Wheel. L. G. Handy. No. 1,013,999; Jan. 9; Sp. p. 2039; Gaz. vol. 174; p. 343.
Wheel. M. J. Foyer. No. 1,014,055; Jan. 9; Sp. p. 2166; Gaz. vol. 174; p. 362.
Wheel. J. J. Adamsen. No. 1,017,363; Feb. 13; Sp. p. 2505; Gaz. vol. 175; p. 425.
Wheel. E. C. Jones. No. 1,017,553; Feb. 13; Sp. p. 2904; Gaz. vol. 175; p. 490.
Wheel. A. J. Swing. No. 1,018,088; Feb. 20; Sp. p. 4132; Gaz. vol. 175; p. 712.
Wheel. J. E. Strietelmeier. No. 1,019,101; Mar. 5; Sp. p. 203; Gaz. vol. 176; p. 33.
Wheel. W. Phillips. No. 1,019,832; Mar. 12; Sp. p. 1758; Gaz. vol. 176; p. 308.
Wheel. P. Haerst. No. 1,020,901; Mar. 19; Sp. p. 4027; Gaz. vol. 176; p. 702.
Wheel. C. E. Martin and S. J. Clokey. No. 1,021,467; Mar. 26; Sp. p. 5263; Gaz. vol. 176; p. 949.
Wheel. G. H. Metcalf. No. 1,021,618; Mar. 26; Sp. p. 5557; Gaz. vol. 176; p. 998.
Wheel. H. O. Shockley. No. 1,022,887; Apr. 9; Sp. p. 2416; Gaz. vol. 177; p. 413.
Wheel. J. L. Walker. No. 1,023,282; Apr. 16; Sp. p. 3298; Gaz. vol. 177; p. 589.
Wheel. O. W. Williams. No. 1,025,555; May 7; Sp. p. 1008; Gaz. vol. 178; p. 156.
Wheel. E. M. Deal. No. 1,025,790; May 7; Sp. p. 1494; Gaz. vol. 178; p. 236.
Wheel. I. M. De Pew. No. 1,025,900; May 7; Sp. p. 1778; Gaz. vol. 178; p. 273.
Wheel. W. Black. No. 1,026,783; May 21; Sp. p. 3728; Gaz. vol. 178; p. 646.
Wheel. C. L. Schwarz. No. 1,027,158; May 21; Sp. p. 4609; Gaz. vol. 178; p. 774.
Wheel. S. C. Fregoso. No. 1,031,174; July 2; Gaz. vol. 180; p. 116.
Wheel. H. V. Snell and J. Callan. No. 1,031,822; July 9; Gaz. vol. 180; p. 381.
Wheel. E. B. Franzheim. No. 1,031,921; July 9; Gaz. vol. 180; p. 414.
Wheel. N. Braibant. No. 1,033,665; July 23; Gaz. vol. 180; p. 1084.
Wheel. T. G. Briggs. No. 1,034,414; Aug. 6; Gaz. vol. 181; p. 5.
Wheel. J. E. McWilliams. No. 1,035,625; Aug. 13; Gaz. vol. 181; p. 444.
Wheel. J. W. Sanders. No. 1,035,748; Aug. 13; Gaz. vol. 181; p. 485.
Wheel. M. C. Rose. No. 1,035,912; Aug. 20; Gaz. vol. 181; p. 579.
Wheel. J. M. Johnson. No. 1,036,633; Aug. 27; Gaz. vol. 181; p. 861.
Wheel. E. N. Breitung. No. 1,037,199; Sept. 3; Gaz. vol. 182; p. 7.
Wheel. O. Mobberly. No. 1,037,652; Sept. 3; Gaz. vol. 182; p. 159.
Wheel. J. F. Wilmot. No. 1,037,699; Sept. 3; Gaz. vol. 182; p. 176.
Wheel. K. Völler. No. 1,037,812; Sept. 3; Gaz. vol. 182; p. 211.
Wheel. W. Hallinan. No. 1,038,501; Sept. 10; Gaz. vol. 182; p. 479.
Wheel. F. A. Frommann. No. 1,040,925; Oct. 8; Gaz. vol. 183; p. 455.
Wheel. C. W. Seeley and C. S. Ross. No. 1,042,487; Oct. 29; Gaz. vol. 183; p. 1080.
Wheel. W. Rogers. No. 1,043,144; Nov. 5; Gaz. vol. 184; p. 35.
Wheel. J. D. Casey. No. 1,043,506; Nov. 5; Gaz. vol. 184; p. 166.
Wheel. E. Beckermann. No. 1,044,005; Nov. 12; Gaz. vol. 184; p. 369.
Wheel. F. J. Singler. No. 1,044,699; Nov. 19; Gaz. vol. 184; p. 638.
Wheel. M. D. Price. No. 1,045,743; Nov. 26; Gaz. vol. 184; p. 1031.
Wheel. H. T. Dunbar. No. 1,048,666; Dec. 31; Gaz. vol. 185; p. 1129.
Wheel. J. H. Sparks. No. 1,049,162; Dec. 31; Gaz. vol. 185; p. 1298.
Wheel. A. McKillop. No. 1,049,254; Dec. 31; Gaz. vol. 185; p. 1330.
Wheel and carrying chair, Combination. T. B. Baldwin. No. 1,030,635; June 25; Sp. p. 5800; Gaz. vol. 179; p. 994.
Wheel and journal. L. Mayer. No. 1,029,762; June 18; Sp. p. 3678; Gaz. vol. 179; p. 648.
Wheel-attaching device. C. S. Spofford and F. W. Jonas. No. 1,040,803; Oct. 8; Gaz. vol. 183; p. 416.

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Wheel attachment, Traction-. O. Olson. No. 1,047,278; Dec. 17; Gaz. vol. 185; p. 584.
Wheel attachment, Vehicle. S. A. Cherry. No. 1,028,676; June 4; Sp. p. 1316; Gaz. vol. 179; p. 203.
Wheel attachment, Vehicle. E. E. Potter. No. 1,043,250; Nov. 5; Gaz. vol. 184; p. 72.
Wheel boring and facing machine. G. A. Ensign. No. 1,039,503; Sept. 24; Gaz. vol. 182; p. 876.
Wheel-brake. C. Aalborg. No. 1,024,489; Apr. 30; Sp. p. 5853; Gaz. vol. 177; p. 1051.
Wheel-brake, Vehicle. J. K. Ullmann. No. 1,017,930; Feb. 20; Sp. p. 3785; Gaz. vol. 175; p. 657.
Wheel-casting machine. J. B. Walker. No. 1,024,755; Apr. 30; Sp. p. 6500; Gaz. vol. 177; p. 1144.
Wheel construction. R. B. Woodworth. No. 1,020,069; Mar. 12; Sp. p. 2261; Gaz. vol. 176; p. 389.
Wheel construction. J. W. Dodd. No. 1,028,688; June 4; Sp. p. 1335; Gaz. vol. 179; p. 207.
Wheel construction. H. W. Sanford. No. 1,031,590; July 2; Gaz. vol. 180; p. 256.
Wheel-cover, Vehicle. K. J. Lageson. No. 1,048,183; Dec. 24; Gaz. vol. 185; p. 925.
Wheel-dishing device. J. S. Creighton. No. 1,029,279; June 11; Sp. p. 2618; Gaz. vol. 179; p. 444.
Wheel-dresser and tool-holder. M. D. Fletcher. No. 1,024,126; Apr. 23; Sp. p. 5075; Gaz. vol. 177; p. 893.
Wheel dust-cap, Vehicle-. T. M. Stutzman. No. 1,039,331; Sept. 24; Gaz. vol. 182; p. 816.
Wheel-fender. J. Nitzsche. No. 1,013,804; Jan. 2; Sp. p. 1562; Gaz. vol. 174; p. 248.
Wheel fender, Traction-. C. E. Palmer. No. 1,046,104; Dec. 3; Gaz. vol. 185; p. 105.
Wheel-flange lubricator. J. H. Miner. No. 1,027,559; May 28; Sp. p. 5419; Gaz. vol. 178; p. 949.
Wheel-flange lubricator. J. H. Miner. No. 1,033,919; July 30; Gaz. vol. 180; p. 1196.
Wheel-flange lubricator. P. Conniff. No. 1,039,650; Sept. 24; Gaz. vol. 182; p. 928.
Wheel-form. R. B. Thompson. No. 1,016,184; Jan. 30; Sp. p. 6758; Gaz. vol. 174; p. 1175.
Wheel-guard, Automatic. C. E. Gierding. No. 1,018,898; Feb. 27; Sp. p. 5908; Gaz. vol. 175; p. 1019.
Wheel-guard, Automatic. C. E. Gierding. No. 1,036,521; Aug. 20; Gaz. vol. 181; p. 791.
Wheel having detachable rim. G. J. Arnold. No. 1,039,348; Sept. 24; Gaz. vol. 182; p. 822.
Wheel jack and disher. I. Rice. No. 1,017,801; Feb. 20; Sp. p. 3474; Gaz. vol. 175; p. 611.
Wheel-lock. C. E. Bridges. No. 1,046,549; Dec. 10; Gaz. vol. 185; p. 301.
Wheel lock, Steering-. T. D. Stanley. No. 1,017,335; Feb. 13; Sp. p. 2446; Gaz. vol. 175; p. 416.
Wheel, Locking device for detachably securing a rim to the felly of a. H. N. Carragher. No. 1,020,126; Mar. 12; Sp. p. 2382; Gaz. vol. 176; p. 407.
Wheel-making machine. F. D. Ward. No. 1,045,482; Nov. 26; Gaz. vol. 184; p. 939.
Wheel mounting, Traction-. A. Kuehn. No. 1,048,322; Dec. 24; Gaz. vol. 185; p. 971.
Wheel mud-guard, Vehicle-. C. H. Nichols. No. 1,021,724; Mar. 26; Sp. p. 5747; Gaz. vol. 176; p. 1032.
Wheel-puller. G. A. Collison. No. 1,043,400; Nov. 5; Gaz. vol. 184; p. 127.
Wheel-retaining means. T. G. Rice. No. 1,035,907; Aug. 20; Gaz. vol. 181; p. 578.
Wheel-rim. H. Gillette. No. 1,015,557; Jan. 23; Sp. p. 5445; Gaz. vol. 174: p. 932.
Wheel-rim. I. J. Carpenter. No. 1,020,478; Mar. 19; Sp. p. 3109; Gaz. vol. 176; p. 561.
Wheel-rim. F. R. Barker. No. 1,020,678; Mar. 19; Sp. p. 3559; Gaz. vol. 176; p. 626.
Wheel-rim. C. F. Jenkins. No. 1,032,286; July 9; Gaz. vol. 180; p. 538.
Wheel rim and tire, Vehicle. M. R. Hutchison. No. 1,038,144; Sept. 10; Gaz. vol. 182; p. 356.
Wheel-rim, Automobile. P. B. Bosworth. No. 1,031,235; July 2; Gaz. vol. 180; p. 136.
Wheel-rim, Demountable. H. H. Replogle. No. 1,024,746; Apr. 30; Sp. p. 6483; Gaz. vol. 177; p. 1114.
Wheel-rim, Detachable. J. J. Burney. No. 1,030,716; June 25; Sp. p. 5996; Gaz. vol. 179; p. 1022.
Wheel-rim equalizing and truing machine. G. A. Ensign. No. 1,038,544; Sept. 17; Gaz. vol. 182; p. 529.
Wheel-rim-jointing machine. G. A. Ensign. No. 1,037,748; Sept. 3; Gaz. vol. 182; p. 190.
Wheel-rim, Metallic. O. T. Svensen. No. 1,031,972; July 9; Gaz. vol. 180; p. 431.
Wheel-rim, Resilient. J. Edman. No. 1,048,054; Dec. 24; Gaz. vol. 185; p. 881.
Wheel-rim, Resilient metal. C. La Cour. No. 1,038,903; Sept. 17; Gaz. vol. 182; p. 654.
Wheel rim, Steering-. W. C. Rastetter. No. 1,040,013; Oct. 1; Gaz. vol. 183; p. 114.
Wheel-rim, Vehicle. G. T. Reichenbach and H. O. Peck. No. 1,017,466; Feb. 13; Sp. p. 2745; Gaz. vol. 175; p. 462.
Wheel-rim, Vehicle. H. Büssing. No. 1,020,797; Mar. 19; Sp. p. 3815; Gaz. vol. 176; p. 668.
Wheel-rim, Vehicle. J. E. Hale. No. 1,028,109; June 4; Sp. p. 32; Gaz. vol. 179; p. 9.
Wheel-rim, Vehicle. P. B. Bosworth. No. 1,031,236; July 2; Gaz. vol. 180; p. 137.
Wheel-rims, Temporary locking-piece for transversely-split vehicle. R. W. Funk. No. 1,041,062; Oct. 15; Gaz. vol. 183; p. 536.
Wheel-securing mechanism, Detachable-. S. J. Ralph. No. 1,049,146; Dec. 31; Gaz. vol. 185; p. 1293.
Wheel-straightener. C. S. Ray. No. 1,039,193; Sept. 24; Gaz. vol. 182; p. 767.
Wheel-support. M. G. Bunnel. No. 1,030,501; June 25; Sp. p. 5238; Gaz. vol. 179; p. 945.
Wheel-support. M. G. Bunnell. No. 1,037,428; Sept. 3; Gaz. vol. 182; p. 85.
Wheel-supporter. F. W. Stange. No. 1,044,282; Nov. 12; Gaz. vol. 184; p. 463.
Wheel-tread. L. C. Erbes. No. 1,038,103; Sept. 10; Gaz. vol. 182; p. 343.
Wheels, Band-tightener for flexible band-. W. C. Matteson. No. 1,039,421; Sept. 24; Gaz. vol. 182; p. 848.
Wheels, Control of vehicle driving-. F. A. Eisner. No. 1,026,662; May 21; Sp. p. 3460; Gaz. vol. 178; p. 604.
Wheels, Demountable rim for automobile or other. M. Halfpenny. No. 1,031,259; July 2; Gaz. vol. 180; p. 145.
Wheels, Detachable rim for vehicle-. M. R. Hutchison. No. 1,038,372; Sept. 10; Gaz. vol. 182; p. 433.
Wheels, Elastic suspension for vehicle-. H. Roze. No. 1,031,090; July 2; Gaz. vol. 180; p. 86.
Wheels, Emergency attachment for vehicle-. E. T. Burrowes. No. 1,019,301; Mar. 5; Sp. p. 665; Gaz. vol. 176; p. 103.
Wheels from shafts, Device for stripping. L. F. Allien. No. 1,026,548; May 14; Sp. p. 3197; Gaz. vol. 178; p. 528.
Wheels, Knuckle connection and drive for vehicle-. L. Mayer. No. 1,027,137; May 21; Sp. p. 4571; Gaz. vol. 178; p. 768.
Wheels, Manufacture of. R. T. Smith, Jr. No. 1,026,613; May 14; Sp. p. 3331; Gaz. vol. 178; p. 550.
Wheels, Manufacture of turbine-. F. M. Faber. No. 1,039,915; Oct. 1; Gaz. vol. 183; p. 82.
Wheels, Manufacturing hand-. C. W., F. H., and E. A. Bluemel. No. 1,031,515; July 2; Gaz. vol. 180; p. 232.
Wheels of cycles and other vehicles, Elastic suspension for. H. Roze. No. 1,019,089; Mar. 5; Sp. p. 181; Gaz. vol. 176; p. 29.
Wheels, Pivoted support for vehicle-. J. B. Spuhr. No. 1,020,723; Mar. 19; Sp. p. 3663; Gaz. vol. 176; p. 644.
Wheels, Pneumatic attachment for vehicle-. H. Garrison. No. 1,016,558; Feb. 6; Sp. p. 764; Gaz. vol. 175; p. 112.
Wheels, Pneumatic tube for vehicle and other. C. D. Galvin. No. 1,023,728; Apr. 16; Sp. p. 4151; Gaz. vol. 177; p. 729.
Wheels, Protective covering for pneumatic-tired. L. J. Tetlow. No. 1,030,348; June 25; Sp. p. 4991; Gaz. vol. 179; p. 889.
Wheels, Removable rim for vehicle-. C. D. Galvin. No. 1,020,140; Mar. 12; Sp. p. 2409; Gaz. vol. 176; p. 411.
Wheels, Resilient mounting for. W. L. and G. H. Foster. No. 1,037,229; Sept. 3; Gaz. vol. 182; p. 18.
Wheels, Tool for centering sprockets upon vehicle-. H. Weber. No. 1,013,911; Jan. 9; Sp. p. 1836; Gaz. vol. 174; p. 314.
Wheeled rake. A. J. and E. A. Suhm. No. 1,020,228; Mar. 12; Sp. p. 2615; Gaz. vol. 176; p. 443.
Wheelbarrow. A. O. Hubbard. No. 1,015,024; Jan. 16; Sp. p. 4311; Gaz. vol. 174; p. 725.
Wheelbarrow. T. L. Smith. No. 1,020,461; Mar. 19; Sp. p. 3075; Gaz. vol. 176; p. 556.
Wheelbarrow. W. J. Taylor. No. 1,026,937; May 21; Sp. p. 4101; Gaz. vol. 178; p. 700.
Wheelbarrow. J. A. Lawrence. No. 1,031,454; July 2; Gaz. vol. 180; p. 211.
Wheelbarrow. R. Raddatz. No. 1,038,197; Sept. 10; Gaz. vol. 182; p. 374.
Wheelbarrow, Dumping-. B. L. Long. No. 1,032,009; July 9; Gaz. vol. 180; p. 443.
Wheelbarrows, Packing and package for disassembled. A. C. Stebbins. No. 1,028,625; June 4; Sp. p. 1216; Gaz. vol. 179; p. 186.
Wheelwright. C. L. Brink. No. 1,038,838; Sept. 17; Gaz. vol. 182; p. 632.
Wheelwright-machine. A. D. Gosett. No. 1,017,534; Feb. 13; Sp. p. 2873; Gaz. vol. 175; p. 484.
Whiffle and double tree. P. Blondell and J. E. Allard. No. 1,020,183; Mar. 12; Sp. p. 2508; Gaz. vol. 176; p. 427.
Whiffletree. R. E. Barrett. No. 1,014,034; Jan. 9; Sp. p. 2122; Gaz. vol. 174; p. 355.
Whiffletree. F. A. Lubrecht. No. 1,016,425; Feb. 6; Sp. p. 414; Gaz. vol. 175; p. 66.
Whiffletree. T. F. Gregory. No. 1,020,196; Mar. 12; Sp. p. 2543; Gaz. vol. 176; p. 432.
Whiffletree. T. Martin. No. 1,026,522; May 14; Sp. p. 3154; Gaz. vol. 178; p. 521.
Whiffletree. G. F. Danielson. No. 1,029,597; June 18; Sp. p. 3313; Gaz. vol. 179; p. 589.

Alphabetical list of inventions—Continued.

Whiffletree. H. B. Sledge. No. 1,030,932; July 2; Gaz. vol. 180; p. 28.
Whiffletree. O. S. Jackson. No. 1,047,065; Dec. 10; Gaz. vol. 185; p. 476.
Whiffletree and trace connection. W. A. Stinson. (Reissue.) No. 13,380; Mar. 5; Sp. p. 1602; Gaz. vol. 176; p. 250.
Whiffletree attachment. G. J. Pepin. No. 1,020,442; Mar. 19; Sp. p. 3041; Gaz. vol. 176; p. 550.
Whiffletree-bearing. L. H. Soens. No. 1,024,037; Apr. 23; Sp. p. 4862; Gaz. vol. 177; p. 862.
Whiffletree-detacher, Safety. R. E. Davis. No. 1,048,050; Dec. 24; Gaz. vol. 185; p. 879.
Whiffletree-detaching device for vehicle-thills. E. Eklund. No. 1,014,584; Jan. 9; Sp. p. 3250; Gaz. vol. 174; p. 542.
Whiffletree-guard. W. L. Misner. No. 1,033,920; July 30; Gaz. vol. 180; p. 1197.
Whiffletree-hook. A. S. Chenoweth. No. 1,016,248; Feb. 6; Sp. p. 6; Gaz. vol. 175; p. 4.
Whiffletree-hook. G. Z. Clark. No. 1,019,949; Mar. 12; Sp. p. 2019; Gaz. vol. 176; p. 349.
Whiffletree-hook. C. E. Jones. No. 1,021,193; Mar. 26; Sp. p. 4644; Gaz. vol. 176; p. 851.
Whiffletree-hook. F. Collins. No. 1,028,545; June 4; Sp. p. 1047; Gaz. vol. 179; p. 159.
Whiffletree-hook. G. H. Roberts. No. 1,037,322; Sept. 3; Gaz. vol. 182; p. 48.
Whip, Carriage-. W. G. Towery. No. 1,013,240; Jan. 2; Sp. p. 331; Gaz. vol. 174; p. 53.
Whip-holder. L. J. Wilson. No. 1,019,873; Mar. 12; Sp. p. 1846; Gaz. vol. 176; p. 324.
Whip-holder, Safety. L. C. Davis. No. 1,040,646; Oct. 8; Gaz. vol. 183; p. 365.
Whip-lock. G. Lipp. No. 1,029,073; June 11; Sp. p. 2172; Gaz. vol. 179; p. 374.
Whip-lock. W. Gladue. No. 1,042,665; Oct. 29; Gaz. vol. 183; p. 1143.
Whip lock and socket. R. P. Dow, Sr. No. 1,045,380; Nov. 26; Gaz. vol. 184; p. 901.
Whip-locking socket. A. A. Le Gendre. No. 1,028,229; June 4; Sp. p. 374; Gaz. vol. 179; p. 53.
Whip-rack. N. F. Alston. No. 1,047,366; Dec. 17; Gaz. vol. 185; p. 616.
Whip-socket. A. R. Depue. No. 1,031,986; July 9; Gaz. vol. 180; p. 436.
Whip-socket. J. Y. Bowser. No. 1,038,276; Sept. 10; Gaz. vol. 182; p. 402.
Whip-socket. I. J. Clark. No. 1,045,371; Nov. 26; Gaz. vol. 184; p. 899.
Whip-socket, Safety. A. F. Frohbieter. No. 1,039,376; Sept. 24; Gaz. vol. 182; p. 833.
Whips in sockets, Device for locking. A. R. Lyon. No. 1,022,488; Apr. 9; Sp. p. 1550; Gaz. vol. 177; p. 278.
Whisk-broom. D. A. Andrews. No. 1,017,069; Feb. 13; Sp. p. 1866; Gaz. vol. 175; p. 323.
Whisky, Container for the aging of. A. S. Klein. No. 1,014,883; Jan. 16; Sp. p. 4006; Gaz. vol. 174; p. 677.
Whist-counter. R. B. Hutcheson. No. 1,032,606; July 16; Gaz. vol. 180; p. 689.
Whistle. E. P. Gray. No. 1,024,683; Apr. 30; Sp. p. 6356; Gaz. vol. 177; p. 1119.
Whistle. E. W. Schurman. No. 1,031,678; July 2; Gaz. vol. 180; p. 288.
Whistle. R. L. Holman. No. 1,047,890; Dec. 17; Gaz. vol. 185; p. 799.
Whistle, Automobile-. H. D. Hough. No. 1,045,143; Nov. 26; Gaz. vol. 184; p. 819.
Whistle, Blower-operated. P. J. Fanning. No. 1,046,164; Dec. 3; Gaz. vol. 185; p. 125.
Whistle, Power-. R. Berrenberg. No. 1,038,074; Sept. 10; Gaz. vol. 182; p. 334.
Whistling-machine. E. Vanderali and J. Litmer. No. 1,020,859; Mar. 19; Sp. p. 3958; Gaz. vol. 176; p. 689.
Wick trimmer and wiper, Lamp-. G. J. Dickson. No. 1,018,745; Feb. 27; Sp. p. 5601; Gaz. vol. 175; p. 969.
Wick-trimmer for lamp-burners. H. H. Reynolds. No. 1,040,757; Oct. 8; Gaz. vol. 183; p. 401.
Wigs and false fringes, Apparatus for making. A. Etienne. No. 1,017,253; Feb. 13; Sp. p. 2284; Gaz. vol. 175; p. 388.
Wigs, &c., Part for. M. R. Ronshkowsky. No. 1,042,972; Oct. 29; Gaz. vol. 183; p. 1247.
Wigwam-seat. C. A. Hyde. No. 1,046,299; Dec. 3; Gaz. vol. 185; p. 175.
Winch. O. Melbye. No. 1,017,307; Feb. 13; Sp. p. 2392; Gaz. vol. 175; p. 407.
Wind motive apparatus. G. E. Salisbury. No. 1,046,026; Dec. 3; Gaz. vol. 185; p. 77.
Wind-motor. M. Stanschus. No. 1,025,428; May 7; Sp. p. 701; Gaz. vol. 178; p. 111.
Wind-motor. W. T. Pulliam. No. 1,025,720; May 7; Sp. p. 1358; Gaz. vol. 178; p. 211.
Wind-motor. G. D. Pearson. No. 1,027,501; May 28; Sp. p. 5302; Gaz. vol. 178; p. 929.
Wind-motor, Horizontal. H. S. Banks. No. 1,035,844; Aug. 20; Gaz. vol. 181; p. 555.
Wind-operated ventilator. E. E. Gold. No. 1,041,616; Oct. 15; Gaz. vol. 183; p. 718.
Wind-shield. J. O. Hofbauer. No. 1,018,973; Feb. 27; Sp. p. 6081; Gaz. vol. 175; p. 1046.
Wind-shield. H. H. White. No. 1,020,336; Mar. 12; Sp. p. 2804; Gaz. vol. 176; p. 475.
Wind-shield. J. Webster. No. 1,023,901; Apr. 23; Sp. p. 4570; Gaz. vol. 177; p. 815.
Wind-shield. F. Schimper. No. 1,026,408; May 14; Sp. p. 2917; Gaz. vol. 178; p. 483.
Wind-shield. H. A. Douglas. No. 1,027,528; May 28; Sp. p. 5353; Gaz. vol. 178; p. 938.
Wind-shield. G. F. Murphy. No. 1,031,020; July 2; Gaz. vol. 180; p. 60.
Wind-shield. E. J. Beseman and F. Nichols. No. 1,034,679; Aug. 6; Gaz. vol. 181; p. 91.
Wind-shield. H. A. Douglas. No. 1,037,604; Sept. 3; Gaz. vol. 182; p. 143.
Wind-shield. E. F. Dupart. No. 1,046,566; Dec. 10; Gaz. vol. 185; p. 307.
Wind-shield. F. Knight. No. 1,047,817; Dec. 17; Gaz. vol. 185; p. 774.
Wind-shield. G. L. Wilson. No. 1,048,467; Dec. 24; Gaz. vol. 185; p. 1020.
Wind-shield attachment. W. R. Donegan and J. J. Walsh. No. 1,046,565; Dec. 10; Gaz. vol. 185; p. 307.
Wind-shield clamp. C. H. Jockmus. No. 1,015,386; Jan. 23; Sp. p. 5072; Gaz. vol. 174; p. 874.
Wind-shield-cleaning device. E. B. Rhodes. No. 1,028,843; June 4; Sp. p. 1664; Gaz. vol. 179; p. 259.
Wind-shield frame. S. Brown. No. 1,022,719; Apr. 9; Sp. p. 2082; Gaz. vol. 177; p. 358.
Wind-shield holder. F. P. Pfleghar. No. 1,026,365; May 14; Sp. p. 2827; Gaz. vol. 178; p. 468.
Wind-shields, Lock-joint for. A. Krah. No. 1,031,275; July 2; Gaz. vol. 180; p. 151.
Wind-wheel. J. A. Bennett. No. 1,015,416; Jan. 23; Sp. p. 5145; Gaz. vol. 174; p. 883.
Wind-wheel. J. R. Liston. No. 1,015,695; Jan. 23; Sp. p. 5753; Gaz. vol. 174; p. 980.
Wind-wheel. J. A. Bennett. No. 1,037,854; Sept. 10; Gaz. vol. 182; p. 258.
Windmill. R. D. Moon and H. J. Horne. No. 1,015,505; Jan. 23; Sp. p. 5331; Gaz. vol. 174; p. 914.
Windmill. S. McNabb. No. 1,018,203; Feb. 20; Sp. p. 4377; Gaz. vol. 175; p. 751.
Windmill. J. O. Lindsey. No. 1,019,974; Mar. 12; Sp. p. 2064; Gaz. vol. 176; p. 356.
Windmill. M. C. Nixon. No. 1,020,924; Mar. 19; Sp. p. 4066; Gaz. vol. 176; p. 711.
Windmill. J. H. Baxter. No. 1,020,957; Mar. 26; Sp. p. 4156; Gaz. vol. 176; p. 773.
Windmill. B. F. Swift. No. 1,021,560; Mar. 26; Sp. p. 5440; Gaz. vol. 176; p. 980.
Windmill. L. W. Noyes. No. 1,022,205; Apr. 2; Sp. p. 960; Gaz. vol. 177; p. 153.
Windmill. J. W. Romans. No. 1,033,351; July 23; Gaz. vol. 180; p. 982.
Windmill. J. B. and A. Haslinger. No. 1,036,109; Aug. 20; Gaz. vol. 181; p. 646.
Windmill. M. L. Mahoney. No. 1,036,128; Aug. 20; Gaz. vol. 181; p. 654.
Windmill. R. D. Richard. No. 1,038,657; Sept. 17; Gaz. vol. 182; p. 567.
Windmill. D. A. Flanigan. No. 1,042,779; Oct. 29; Gaz. vol. 183; p. 1182.
Windmill. J. F. Young. No. 1,046,706; Dec. 10; Gaz. vol. 185; p. 357.
Windmill. W. T. Santala. No. 1,049,274; Dec. 31; Gaz. vol. 185; p. 1336.
Windmill and engine coupling. D. Sheen. No. 1,017,021; Feb. 13; Sp. p. 1751; Gaz. vol. 175; p. 306.
Windmill attachment. M. H. Engle. No. 1,019,142; Mar. 5; Sp. p. 306; Gaz. vol. 176; p. 47.
Windmill-coupling. L. C. Hamel. No. 1,026,352; May 14; Sp. p. 2798; Gaz. vol. 178; p. 464.
Windmill derrick and reservoir, Combined. O. F. Erickson. No. 1,035,431; Aug. 13; Gaz. vol. 181; p. 379.
Winder, Lap-. C. Mills and L. W. Penney. No. 1,029,391; June 11; Sp. p. 2891; Gaz. vol. 179; p. 483.
Winder-shaft. B. Larson. No. 1,033,423; July 23; Gaz. vol. 180; p. 1005.
Winder-shaft collar. G. C. Dewey. No. 1,023,419; Apr. 16; Sp. p. 3554; Gaz. vol. 177; p. 633.
Winding and measuring machine. F. L. Taylor. No. 1,013,461; Jan. 2; Sp. p. 808; Gaz. vol. 174; p. 129.
Winding and measuring machine. F. M. Brookes. No. 1,024,246; Apr. 23; Sp. p. 5344; Gaz. vol. 177; p. 936.
Winding and rewinding machine, Electromagnetic. F. G. Brockett. No. 1,043,900; Nov. 12; Gaz. vol. 184; p. 331.
Winding apparatus for paper, cloth, or the like. F. Zwinz. No. 1,013,917; Jan. 9; Sp. p. 1842; Gaz. vol. 174; p. 316.
Winding apparatus for spinning and doubling machines, Thread-. J. F. Roth. No. 1,030,017; June 18; Sp. p. 4241; Gaz. vol. 179; p. 734.
Winding apparatus, Tension-governor for yarn-. G. Stone. No. 1,022,979; Apr. 9; Sp. p. 2619; Gaz. vol. 177; p. 446.
Winding-drum. T. Ahlborn. No. 1,014,990; Jan. 16; Sp. p. 4243; Gaz. vol. 174; p. 714.
Winding-drum mechanism, Manually-operated. W. E. Boehck. No. 1,044,008; Nov. 12; Gaz. vol. 184; p. 370.

Winding-engine for collieries or like purposes. R. J. Worth. No. 1,029,410; June 11; Sp. p. 2929; Gaz. vol. 179; p. 490.
Winding engine, Rope-. H. N. Covell. No. 1,042,090; Oct. 22; Gaz. vol. 183; p. 918.
Winding-indicator. P. Ravigneaux. No. 1,035,104; Aug. 6; Gaz. vol. 181; p. 235.
Winding-machine. J. O. McKean. No. 1,014,836; Jan. 16; Sp. p. 3904; Gaz. vol. 174; p. 661.
Winding-machine. J. L. Wilds. No. 1,014,860; Jan. 16; Sp. p. 3957; Gaz. vol. 174; p. 669.
Winding-machine. J. O. McKean. No. 1,018,920; Feb. 27; Sp. p. 5959; Gaz. vol. 175; p. 1027.
Winding-machine. W. Marlow. No. 1,025,988; May 14; Sp. p. 1954; Gaz. vol. 178; p. 337.
Winding-machine. F. S. Rand. No. 1,027,277; May 21; Sp. p. 4843; Gaz. vol. 178; p. 816.
Winding-machine. G. H. Rupley. No. 1,028,390; June 4; Sp. p. 707; Gaz. vol. 179; p. 107.
Winding-machine. C. Ryden. No. 1,028,609; June 4; Sp. p. 1182; Gaz. vol. 179; p. 181.
Winding-machine. A. H. Wouters. No. 1,028,983; June 11; Sp. p. 1988; Gaz. vol. 179; p. 343.
Winding-machine. H. J. Marx. No. 1,029,703; June 18; Sp. p. 3561; Gaz. vol. 179; p. 629.
Winding-machine. H. J. Marx. No. 1,029,761; June 18; Sp. p. 3677; Gaz. vol. 179; p. 648.
Winding-machine. J. Schärer-Nussbaumer. No. 1,033,622; July 23; Gaz. vol. 180; p. 1070.
Winding-machine. C. F. Perham. No. 1,041,157; Oct. 15; Gaz. vol. 183; p. 568.
Winding-machine. R. Burt. No. 1,044,485; Nov. 19; Gaz. vol. 184; p. 562.
Winding-machine. A. D. Scott. No 1,047,844; Dec. 17; Gaz. vol. 185; p. 784.
Winding-machine, Automatic. D. E. Gray. No. 1,040,188; Oct. 1; Gaz. vol. 183; p. 173.
Winding machine, Cloth-roll-. A. L. Adams. No. 1,032,799; July 16; Gaz. vol. 180; p. 757.
Winding-machine-controlling device. J. W. West. No. 1,030,147; June 18; Sp. p. 4515; Gaz. vol. 179; p. 780.
Winding machine, Cord and rope. T. W. Norman. No. 1,031,366; July 2; Gaz. vol. 180; p. 181.
Winding machine, Cross-. J. Schweiter. No. 1,022,004; Apr. 2; Sp. p. 546; Gaz. vol. 177; p. 85.
Winding-machine for yarn or thread. F. J. Thieme. No. 1,028,302; June 4; Sp. p. 519; Gaz. vol. 179; p. 76.
Winding machine, Yarn-. A. K. Miller. No. 1,019,173; Mar. 5; Sp. p. 376; Gaz. vol. 176; p. 59.
Winding machine, Yarn or like. E. Sykes. No. 1,014,981; Jan. 16; Sp. p. 4226; Gaz. vol. 174; p. 711.
Winding-machines, Belt-gearing for. B. Gridley. No. 1,025,868; May 7; Sp. p. 1664; Gaz. vol. 178; p. 262.
Winding-machines, Spool-holder and tension device for. E. H. Ryon. No. 1,040,768; Oct. 8; Gaz. vol. 183; p. 404.
Winding-machines, Tension mechanism for. J. O. McKean. No. 1,027,140; May 21; Sp. p. 4578; Gaz. vol. 178; p. 769.
Winding-machinery-controlling device. J. B. Gott. No. 1,045,090; Nov. 19; Gaz. vol. 184; p. 773.
Winding mechanism. H. J. Marx. No. 1,029,704; June 18; Sp. p. 3565; Gaz. vol. 179; p. 629.
Winding mechanism. F. Hayes. No. 1,034,012; July 30; Gaz. vol. 180; p. 1231.
Winding mechanism, Line-. W. N. Cavileer. No. 1,030,770; June 25; Sp. p. 6139; Gaz. vol. 179; p. 1041.
Winding or wrapping machine. H. J. Hoyt. No. 1,020,097; Mar. 12; Sp. p. 2326; Gaz vol. 176; p. 398.
Winding-roller. R. T. Axe. No. 1,047,606; Dec. 17; Gaz. vol. 185; p. 701.
Winding-roller. R. T. Axe. No. 1,049,036; Dec. 31; Gaz. vol. 185; p. 1257.
Winding-spindle. R. S. Atwood. No. 1,038,263; Sept. 10; Gaz. vol. 182; p. 397.
Winding yarns or threads onto bobbins or the like, Machinery for. A. Seeley and H. Holt. No. 1,046,226; Dec. 3; Gaz. vol. 185; p. 148.
Windlass. J. A. Coursen. No. 1,032,742; July 16; Gaz. vol. 180; p. 739.
Windlass, Double-acting. C. Andrade, Jr. No. 1,018,545; Feb. 27; Sp. p. 5173; Gaz. vol. 175; p. 900.
Windlass for hay-forks. T. F. Tallon. No. 1.038.800: Sept. 17; Gaz. vol. 182; p. 618.
Window. H. M. Thomas. No. 1,017,235; Feb. 13; Sp. p. 2246; Gaz. vol. 175; p. 382.
Window. F. X. Payment. No. 1,018,128; Feb. 20; Sp. p. 4220; Gaz. vol. 175; p. 726.
Window. I. A. Bean. No. 1,027,584; May 28; Sp. p. 5478; Gaz. vol. 178; p. 958.
Window. D. R. Caler. No. 1,029,274; June 11; Sp. p. 2599; Gaz. vol. 179; p. 442.
Window. F. J. Gruhl. No. 1,032,752; July 16; Gaz. vol. 180; p. 742.
Window. J. Alsfasser. No. 1,036,773; Aug. 27; Gaz. vol. 181; p. 907.
Window. A. C. Soule. No. 1,038,224; Sept. 10; Gaz. vol. 182; p. 383.
Window. H. M. Davis. No. 1,039,263; Sept. 24; Gaz. vol. 182; p. 793.
Window. J. F. Ruth. No. 1,042,974; Oct. 29; Gaz. vol. 183; p. 1248.
Window. O. M. Edwards. No. 1,043,045; Oct. 29; Gaz. vol. 183; p. 1274.
Window. O. E. Almén. No. 1,045,492; Nov. 26; Gaz. vol. 184; p. 942.
Window. D. Hoyt. No. 1,045,555; Nov. 26; Gaz. vol. 184; p. 966.
Window. R. B. Hartsfield. No. 1,047,049; Dec. 10; Gaz. vol. 185; p. 471.
Window. W. J. Larkin. No. 1,048,550; Dec. 31; Gaz. vol. 185; p. 1087.
Window. A. Gehri. No. 1,049,224; Dec. 31; Gaz. vol. 185; p. 1320.
Window, &c. J. B. Strauss. No. 1,021,492; Mar. 26; Sp. p. 5306; Gaz. vol. 176; p. 956.
Window appliance. C. J. Goransson. No. 1,047,043; Dec. 10; Gaz. vol. 185; p. 469.
Window attachment or fixture. E. Héroux. No. 1,018,614; Feb. 27; Sp. p. 5319; Gaz. vol. 175; p. 923.
Window-bead fastener. A. Skowronsky. No. 1,045,206; Nov. 26; Gaz. vol. 184; p. 842.
Window-board set, Reversible-. A. C. Bartlett. No. 1,030,962; July 2; Gaz. vol. 180; p. 39.
Window-bracket. C. A. Latham. No. 1,047,092; Dec. 10; Gaz. vol. 185; p. 485.
Window, Casement-. B. Hausmann. No. 1,026,161; May 14; Sp. p. 2361; Gaz. vol. 178; p. 399.
Window-cleaner. J. E. Heckert. No. 1,022,134; Apr. 2; Sp. p. 813; Gaz. vol. 177; p. 129.
Window-cleaner. F. E. Whitaker and T. H. Cox. No. 1,030,626; June 25; Sp. p. 5769; Gaz. vol. 179; p. 991.
Window-cleaner. A. B. Wetherell. No. 1,045,345; Nov. 26; Gaz. vol. 184; p. 891.
Window-cleaner and glass-polisher. E. E. Collins. No. 1,017,081; Feb. 13; Sp. p. 1915; Gaz. vol. 175; p. 328.
Window-cleaners, Protector for. L. Lohr. No. 1,017,982; Feb. 20; Sp. p. 3900; Gaz. vol. 175; p. 675.
Window-cleaner's seat. C. Linden. No. 1,033,424; July 23; Gaz. vol. 180; p. 1005.
Window-cleaning device. F. W. Woodhull. No. 1,018,147; Feb. 20; Sp. p. 4267; Gaz. vol. 175; p. 732.
Window-cleaning device. F. W. Woodhull. No. 1,018,148; Feb. 20; Sp. p. 4270; Gaz. vol. 175; p. 733.
Window-cleaning device. E. W. Sharkey. No. 1,030,546; June 25; Sp. p. 5465; Gaz. vol. 179; p. 961.
Window-cleaning device. E. B. Lamb and F. C. Robinson. No. 1,035,796; Aug. 13; Gaz. vol. 181; p. 500.
Window-cleaning device. T. A. Corcoran. No. 1,038,529; Sept. 17; Gaz. vol. 182; p. 523.
Window-cleaning device. A. B. Sauter and H. E. Wehner. No. 1,042,283; Oct. 22; Gaz. vol. 183; p. 981.
Window-cleaning device. C. J. Kern and J. E. Thebaud. No. 1,043,523; Nov. 5; Gaz. vol. 184; p. 172.
Window construction. E. M. Clevenger. No. 1,014,638; Jan. 16; Sp. p. 3452; Gaz. vol. 174; p. 593.
Window construction. C. J. Wallen. No. 1,022,901; Apr. 9; Sp. p. 2441; Gaz. vol. 177; p. 417.
Window construction. T. H. Kane. No. 1,023,938; Apr. 23; Sp. p. 4661; Gaz. vol. 177; p. 828.
Window construction. T. H. Kane. No. 1,031,124; July 2; Gaz. vol. 180; p. 97.
Window construction. W. Dulles. No. 1,042,657; Oct. 29; Gaz. vol. 183; p. 1140.
Window construction. J. G. Stanecky. No. 1,046,035; Dec. 3; Gaz. vol. 185; p. 81.
Window construction, Hollow-metal. A. Fromhold. No. 1,049,223; Dec. 31; Gaz. vol. 185; p. 1319.
Window construction, Metal. G. H. Forsyth. No. 1,032,057; July 9; Gaz. vol. 180; p. 459.
Window, Drop-. M. Halász. No. 1,032,825; July 16; Gaz. vol. 180; p. 766.
Window-fastener. E. H. Remde. No. 1,013,898; Jan. 9; Sp. p. 1804; Gaz. vol. 174; p. 309.
Window-fastener. F. G. Michel. No. 1,024,273; Apr. 23; Sp. p. 5401; Gaz. vol. 177; p. 945.
Window-fastener. L. W. Gates. No. 1,028,452; June 4; Sp. p. 861; Gaz. vol. 179; p. 129.
Window-fastener. F. Galloway. No. 1,041,713; Oct. 15; Gaz. vol. 183; p. 753.
Window-fixture. J. O. Richard. No. 1,046,646; Dec. 10; Gaz. vol. 185; p. 334.
Window for street-cars, locomotive-cabs, &c., Storm-. W. M. Hallbauer. No. 1,042,671; Oct. 29; Gaz. vol. 183; p. 1145.
Window-frame. A. M. Deutschmann. No. 1,021,181; Mar. 26; Sp. p. 4619; Gaz. vol. 176; p. 847.
Window-frame. W. Schäfer. No. 1,045,617; Nov. 26; Gaz. vol. 184; p. 988.
Window-frame. A. Fromhold. No. 1,048,062; Dec. 24; Gaz. vol. 185; p. 883.
Window-frame attachment. A. M. Hillman. No. 1,032,062; July 9; Gaz. vol. 180; p. 461.
Window-frame, Iron. A. Packscher. No. 1,040,746; Oct. 8; Gaz. vol. 183; p. 397.
Window-frame, Metal. E. R. Leonard. No. 1,038,160; Sept. 10; Gaz. vol. 182; p. 363.
Window-frame, Metallic. C. W. Davock. No. 1,040,286; Oct. 8; Gaz. vol. 183; p. 236.
Window-frame, Sheet-metal. W. D. Forsyth. No. 1,024,001; Apr. 23; Sp. p. 4782; Gaz. vol. 177; p. 849.
Window-guard. W. C. De Witt. No. 1,041,753; Oct. 22; Gaz. vol. 183; p. 802.

Alphabetical list of inventions—Continued.

Window hanger, Screen or storm-. B. B. Cutler. No. 1,014,621; Jan. 9; Sp. p. 3359; Gaz. vol. 174; p. 556.
Window-lock. G. Parker. No. 1,014,091; Jan. 9; Sp. p. 2232; Gaz. vol. 174; p. 374.
Window-lock. C. J. Jevert. No. 1,020,205; Mar. 12; Sp. p. 2565; Gaz. vol. 176; p. 435.
Window-lock. E. Sühsmann. No. 1,021,642; Mar. 26; Sp. p. 5596; Gaz. vol. 176; p. 1006.
Window-lock. E. Hill. No. 1,023,647; Apr. 16; Sp. p. 4015; Gaz. vol. 177; p. 705.
Window-lock. R. K. Haldane. No. 1,029,011; June 11; Sp. p. 2057; Gaz. vol. 179; p. 354.
Window-lock. G. B. Roberts and M. T. Flanagan. No. 1,037,662; Sept. 3; Gaz. vol. 182; p. 163.
Window-lock. J. W. Riley. No. 1,040,015; Oct. 1; Gaz. vol. 183; p. 114.
Window-lock. J. E. Kilburn. No. 1,041,803; Oct. 22; Gaz. vol. 183; p. 821.
Window-lock. H. G. Voight. No. 1,042,296; Oct. 22; Gaz. vol. 183; p. 985.
Window-lock. J. W. Crossley. No. 1,046,987; Dec. 10; Gaz. vol. 185; p. 450.
Window lock and ventilator, Combined. J. E. Miller. No. 1,046,833; Dec. 10; Gaz. vol. 185; p. 400.
Window-lock, Automatic. J. O. Schurtz. No. 1,016,962; Feb. 13; Sp. p. 1630; Gaz. vol. 175; p. 286.
Window-lock, Gravity-actuated. C. W. McKee. No. 1,032,559; July 16; Gaz. vol. 180; p. 674.
Window-lock, Ventilating. L. H. Thomas. No. 1,038,461; Sept. 10; Gaz. vol. 182; p. 467.
Window-locking device. I. A. Dean. No. 1,041,042; Oct. 15; Gaz. vol. 183; p. 528.
Window-louvers, Operating device for. J. E. von Wagner. No. 1,014,679; Jan. 16; Sp. p. 3555; Gaz. vol. 174; p. 608.
Window, Metallic. J. F. Ruth. No. 1,028,391; June 4; Sp. p. 712; Gaz. vol. 179; p. 108.
Window, Metallic. J. F. Ruth. No. 1,028,392; June 4; Sp. p. 717; Gaz. vol. 179; p. 108.
Window, Metallic. J. F. Ruth. No. 1,028,393; June 4; Sp. p. 721; Gaz. vol. 179; p. 109.
Window-operating mechanism. R. A. Lackey. No. 1,046,202; Dec. 3; Gaz. vol. 185; p. 138.
Window-operator. L. Lewandowski. No. 1,036,658; Aug. 27; Gaz. vol. 181; p. 870.
Window or door screen. T. J. McBurney and J. McAlister. No. 1,016,842; Feb. 6; Sp. p. 1344; Gaz. vol. 175; p. 208.
Window or shutter operating device. E. Van Noorden. No. 1,049,008; Dec. 31; Gaz. vol. 185; p. 1246.
Window or shutter operating device. E. Van Noorden. No. 1,049,175; Dec. 31; Gaz. vol. 185; p. 1302.
Window-pane fastener. E. Hilton and A. Veitl. No. 1,023,080; Apr. 9; Sp. p. 2820; Gaz. vol. 177; p. 480.
Window-pane fastening. V. V. Ormsby. No. 1,038,946; Sept. 17; Gaz. vol. 182; p. 669.
Window-pane-retaining device. E. T. Wilkinson. No. 1,023,479; Apr. 16; Sp. p. 3675; Gaz. vol. 177; p. 651.
Window, Reversible. A. C. Soule. No. 1,045,625; Nov. 26; Gaz. vol. 184; p. 991.
Window, Safety swinging. E. McConnell. No. 1,019,337; Mar. 5; Sp. p. 740; Gaz. vol. 176; p. 115.
Window-screen. M. G. Wood. No. 1,015,413; Jan. 23; Sp. p. 5138; Gaz. vol. 174; p. 882.
Window-screen. J. Nye. No. 1,016,088; Jan. 30; Sp. p. 6593; Gaz. vol. 174; p. 1145.
Window-screen. B. R. McCollom. No. 1,016,574; Feb. 6; Sp. p. 799; Gaz. vol. 175; p. 118.
Window-screen. W. V. Knight. No. 1,016,888; Feb. 6; Sp. p. 1435; Gaz. vol. 175; p. 223.
Window-screen. W. B. Miller. No. 1,017,266; Feb. 13; Sp. p. 2306; Gaz. vol. 175; p. 392.
Window-screen. G. W. Stein. No. 1,018,215; Feb. 20; Sp. p. 4396; Gaz. vol. 175; p. 756.
Window-screen. L. C. Bassford. No. 1,023,063; Apr. 9; Sp. p. 2790; Gaz. vol. 177; p. 474.
Window-screen. G. W. Corey. No. 1,023,625; Apr. 16; Sp. p. 3979; Gaz. vol. 177; p. 699.
Window-screen. J. H. Chamberlin. No. 1,025,244; May 7; Sp. p. 297; Gaz. vol. 178; p. 49.
Window-screen. H. A. Faber. No. 1,025,256; May 7; Sp. p. 326; Gaz. vol. 178; p. 53.
Window-screen. T. H. Raney. No. 1,025,721; May 7; Sp. p. 1361; Gaz. vol. 178; p. 211.
Window-screen. W. H. Etter. No. 1,026,501; May 14; Sp. p. 3108; Gaz. vol. 178; p. 513.
Window-screen. A. W. Hiney. No. 1,026,864; May 21; Sp. p. 3895; Gaz. vol. 178; p. 673.
Window-screen. E. H. Crawford. No. 1,029,427; June 11; Sp. p. 2963; Gaz. vol. 179; p. 495.
Window-screen. H. M. Day. No. 1,030,979; July 2; Gaz. vol. 180; p. 45.
Window-screen. F. P. Edler. No. 1,030,985; July 2; Gaz. vol. 180; p. 47.
Window-screen. J. W. Toohey. No. 1,034,937; Aug. 6; Gaz. vol. 181; p. 179.
Window-screen. F. P. Moyer. No. 1,038,936; Sept. 17; Gaz. vol. 182; p. 666.
Window-screen. I. W. Jones. No. 1,039,411; Sept. 24; Gaz. vol. 182; p. 844.
Window-screen. T. Baker. No. 1,042,380; Oct. 29; Gaz. vol. 183; p. 1040.
Window-screen. E. C. Lindbeck. No. 1,043,444; Nov. 5; Gaz. vol. 184; p. 142.
Window-screen. R. B. Morse. No. 1,048,474; Dec. 24; Gaz. vol. 185; p. 1023.
Window-screen, Adjustable. S. G. and S. A. Foster. No. 1,022,312; Apr. 2; Sp. p. 1161; Gaz. vol. 177; p. 187.
Window-screen, Adjustable. T. B. Ford. No. 1,023,780; Apr. 16; Sp. p. 4240; Gaz. vol. 177; p. 745.
Window-screen construction. R. E. Hamilton. No. 1,020,601; Mar. 19; Sp. p. 3389; Gaz. vol. 176; p. 602.
Window-screen, Extensible. S. J. Dixon. No. 1,039,911; Oct. 1; Gaz. vol. 183; p. 81.
Window-screen hanger. L. A. Bittorf. No. 1,018,603; Feb. 27; Sp. p. 5300; Gaz. vol. 175; p. 920.
Window-screen hanger. C. F. Courson. No. 1,036,078; Aug. 20; Gaz. vol. 181; p. 636.
Window-screen hanger. O. G. Smith. No. 1,046,667; Dec. 10; Gaz. vol. 185; p. 342.
Window-screen insect-escape. C. M. Haworth. No. 1,018,188; Feb. 20; Sp. p. 4354; Gaz. vol. 175; p. 747.
Window-screen, Knockdown. B. S. Cleveland. No. 1,044,626; Nov. 19; Gaz. vol. 184; p. 612.
Window-screen, Roller. C. K. Jenkins. No. 1,016,413; Feb. 6; Sp. 396; Gaz. vol. 175; p. 62.
Window-screen, Roller. A. K. Lovell. No. 1,042,805; Oct. 29; Gaz. vol. 183; p. 1191.
Window-screen, Sheet-metal. A. Flink. No. 1,029,352; June 11; Sp. p. 2788; Gaz. vol. 179; p. 470.
Window-screen, Swinging. J. H. Cornelison. No. 1,028,679; June 4; Sp. p. 1320; Gaz. vol. 179; p. 204.
Window, Sliding and swinging. C. M. March. No. 1,015,050; Jan. 16; Sp. p. 4371; Gaz. vol. 174; p. 733.
Window, Swinging. E. Culver. No. 1,021,862; Apr. 2; Sp. p. 243; Gaz. vol. 177; p. 39.
Window, Swinging. C. W. Davock. No. 1,045,265; Nov. 26; Gaz. vol. 184; p. 862.
Window-tapping device. C. M. Long. No. 1,018,625; Feb. 27; Sp. p. 5338; Gaz. vol. 175; p. 926.
Window-ventilating appliance. R. Schimek. No. 1,016,713; Feb. 6; Sp. p. 1086; Gaz. vol. 175; p. 167.
Window-ventilator. J. W. Downs. No. 1,020,970; Mar. 26; Sp. p. 4185; Gaz. vol. 176; p. 778.
Window-ventilator. M. Power. No. 1,022,870; Apr. 9; Sp. p. 2386; Gaz. vol. 177; p. 408.
Window-ventilator. J. F. G. Smith. No. 1,035,392; Aug. 13; Gaz. vol. 181; p. 366.
Window-ventilator. N. M. Barnes. No. 1,038,825; Sept. 17; Gaz. vol. 182; p. 627.
Window-ventilator and shade and curtain protector, Combined draftless. G. Van Verst and M. A. Sooy. No. 1,027,015; May 21; Sp. p. 4260; Gaz. vol. 178; p. 726.
Window weather-guard. W. S. Hamm and A. H. Newpher. No. 1,029,188; June 11; Sp. p. 2425; Gaz. vol. 179; p. 413.
Window-wiper. J. W. Cain. No. 1,032,377; July 16; Gaz. vol. 180; p. 613.
Windows, Balancing device for sliding. L. J. Le Clair. No. 1,035,203; Aug. 13; Gaz. vol. 181; p. 298.
Windows or the like, Fastening for. L. P. Nelson. No. 1,030,115; June 18; Sp. p. 4455; Gaz. vol. 179; p. 769.
Windows, &c., Suspending device for storm-. J. M. Hjermstad. No. 1,035,010; Aug. 6; Gaz. vol. 181; p. 203.
Windrower. F. and F. A. Blocki. No. 1,037,418; Sept. 3; Gaz. vol. 182; p. 81.
Wine and similar liquids, Receptacle for. E. Berger. No. 1,020,739; Mar. 19; Sp. p. 3704; Gaz. vol. 176; p. 649.
Wing-brace and wagon-stake socket, Combined. C. Schulze. No. 1,048,747; Dec. 31; Gaz. vol. 185; p. 1156.
Wing-carrier. W. F. Brown. No. 1,025,367; May 7; Sp. p. 586; Gaz. vol. 178; p. 91.
Wing-carrier. W. F. Brown. No. 1,028,858; June 11; Sp. p. 1706; Gaz. vol. 179; p. 299.
Winnowing-machine. A. T. Hedfeldt and H. Hager. No. 1,028,022; May 28; Sp. p. 6424; Gaz. vol. 178; p. 1102.
Wiper for windows and the like. W. A. Roth and F. O. Moldenhauer. No. 1,041,172; Oct. 15; Gaz. vol. 183; p. 573.
Wire-anchor. F. T. Reinert. No. 1,033,617; July 23; Gaz. vol. 180; p. 1069.
Wire-bail-forming machine. C. Stecher. No. 1,039,837; Oct. 1; Gaz. vol. 183; p. 56.
Wire barb. F. Matoushek. No. 1,039,159; Sept. 24; Gaz. vol. 182; p. 754.
Wire-basket-fabric-making machine. V. D. Munger. No. 1,024,143; Apr. 23; Sp. p. 5112; Gaz. vol. 177; p. 899.
Wire-bending tool. J. H. Straus, Jr. No. 1,020,582; Mar. 19; Sp. p. 3353; Gaz. vol. 176; p. 596.
Wire-bending tool. H. Sheldon. No. 1,031,738; July 9; Gaz. vol. 180; p. 351.
Wire-bound box. J. Shellenberger. No. 1,033,833; July 30; Gaz. vol. 180; p. 1166.
Wire-bound box. E. E. Flora. No. 1,042,100; Oct. 22; Gaz. vol. 183; p. 922.
Wire-cable fastener. B. K. Lamb. No. 1,022,954; Apr. 9; Sp. p. 2574; Gaz. vol. 177; p. 437.

Wire chair. J. Salomon. No. 1,041,355; Oct. 15; Gaz. vol. 183; p. 635.
Wire-clamp. G. M. Anderson. No. 1,023,706; Apr. 16; Sp. p. 4112; Gaz. vol. 177; p. 722.
Wire-clamp. H. R. Booze. No. 1,028,183; June 4; Sp. p. 287; Gaz. vol. 179; p. 36.
Wire-clamp. H. L. Carroll. No. 1,042,199; Oct. 22; Gaz. vol. 183; p. 953.
Wire-clamp for wire-stretching machines. D. C. Brogden. No. 1,024,825; Apr. 30; Sp. p. 6647; Gaz. vol. 177; p. 1170.
Wire-cleaning apparatus. R. W. Burgess and A. Clark. No. 1,016,473; Feb. 6; Sp. p. 540; Gaz. vol. 175; p. 83.
Wire-cloth screen. H. F. Jackson. No. 1,038,895; Sept. 17; Gaz. vol. 182; p. 651.
Wire-coating machine. J. G. Callan. No. 1,031,620; July 2; Gaz. vol. 180; p. 267.
Wire-coupling. J. P. R. Ronfet. No. 1,044,249; Nov. 12; Gaz. vol. 184; p. 452.
Wire, Covering for. C. Moon. No. 1,034,276; July 30; Gaz. vol. 180; p. 1322.
Wire-covering machine. F. S. Randall. No. 1,045,183; Nov. 26; Gaz. vol. 184; p. 832.
Wire covering or insulating machine. D. Noble. No. 1,032,854; July 16; Gaz. vol. 180; p. 776.
Wire-cutter. M. H. Mann. No. 1,018,839; Feb. 27; Sp. p. 5791; Gaz. vol. 175; p. 1000.
Wire-cutter. E. W. Grogan. No. 1,045,396; Nov. 26; Gaz. vol. 184; p. 907.
Wire-cutting machine. F. H. Nullmeyer and C. A. Porath. No. 1,036,311; Aug. 20; Gaz. vol. 181; p. 718.
Wire-cutting machine. C. E. Fetherolf. No. 1,048,141; Dec. 24; Gaz. vol. 185; p. 911.
Wire-drawing. J. T. H. Dempster. No. 1,022,182; Apr. 2; Sp. p. 911; Gaz. vol. 177; p. 145.
Wire-drawing apparatus. J. Stratton and E. A. Claremont. No. 1,015,913; Jan. 30; Sp. p. 6204; Gaz. vol. 174; p. 1082.
Wire-drawing apparatus. J. Stratton and E. A. Claremont. No. 1,015,914; Jan. 30; Sp. p. 6208; Gaz. vol. 174; p. 1083.
Wire-drawing apparatus. E. Hurwitz. No. 1,023,316; Apr. 16; Sp. p. 3363; Gaz. vol. 177; p. 600.
Wire-drawing block. J. H. Reece. No. 1,027,357; May 21; Sp. p. 4999; Gaz. vol. 178; p. 843.
Wire-drawing blocks, Safety-stop for. L. J. Altenhof. No. 1,048,268; Dec. 24; Gaz. vol. 185; p. 952.
Wire-drawing dies, Machine for remaking. N. K. Turnbull. No. 1,028,305; June 4; Sp. p. 525; Gaz. vol. 179; p. 77.
Wire-drawing dies, Machine for remaking. N. K. Turnbull. No. 1,041,200; Oct. 15; Gaz. vol. 183; p. 582.
Wire-drawing machine. J. H. O'Donnell and W. D. Pierson. No. 1,025,421; May 7; Sp. p. 688; Gaz. vol. 178; p. 109.
Wire-drawing machine. J. H. O'Donnell and W. D. Pierson. No. 1,025,588; May 7; Sp. p. 1083; Gaz. vol. 178; p. 167.
Wire-drawing machine. J. F. Pender. No. 1,026,119; May 14; Sp. p. 2279; Gaz. vol. 178; p. 384.
Wire-drawing machine. E. H. Carroll. No. 1,047,168; Dec. 17; Gaz. vol. 185; p. 543.
Wire-drawing machine, Multiple-. W. Nacken. No. 1,031,572; July 2; Gaz. vol. 180; p. 251.
Wire-drawing mechanism. H. E. Wheeler. No. 1,026,840; May 21; Sp. p. 3854; Gaz. vol. 178; p. 665.
Wire fabric. C. H. Gail. No. 1,014,699; Jan. 16; Sp. p. 3583; Gaz. vol. 174; p. 613.
Wire fabric. L. J. Willems. No. 1,032,037; July 9; Gaz. vol. 180; p. 453.
Wire fabric. N. Greening. No. 1,036,997; Aug. 27; Gaz. vol. 181; p. 982.
Wire fabric. J. Schwartzman. No. 1,042,612; Oct. 29; Gaz. vol. 183; p. 1124.
Wire fabric, Endless. R. Franck. No. 1,017,662; Feb. 20; Sp. p. 3119; Gaz. vol. 175; p. 563.
Wire-fabric machine. F. E. Willets. No. 1,027,454; May 28; Sp. p. 5207; Gaz. vol. 178; p. 913.
Wire-fastener. D. Monson. No. 1,014,245; Jan. 9; Sp. p. 2577; Gaz. vol. 174; p. 429.
Wire-fastener. W. C. Post. No. 1,028,962; June 11; Sp. p. 1941; Gaz. vol. 179; p. 335.
Wire-feed mechanism. G. W. Perkins. No. 1,017,628; Feb. 13; Sp. p. 3044; Gaz. vol. 175; p. 513.
Wire-feeding mechanism. J. G. Lepper and W. W. Manville. No. 1,014,829; Jan. 16; Sp. p. 3880; Gaz. vol. 174; p. 658.
Wire for receptacle-closures, Neck-. C. W. Casto. No. 1,048,492; Dec. 31; Gaz. vol. 185; p. 1067.
Wire-forming machine. G. A. Smith. No. 1,032,513; July 16; Gaz. vol. 180; p. 658.
Wire gate. E. Howland. No. 1,020,144; Mar. 12; Sp. p. 2417; Gaz. vol. 176; p. 413.
Wire-grip. J. T. Ferguson. No. 1,020,600; Mar. 19; Sp. p. 3388; Gaz. vol. 176; p. 601.
Wire grip, Woven-. J. C. Shannon. No. 1,044,929; Nov. 19; Gaz. vol. 184; p. 717.
Wire-hanger. J. Meute, Jr. No. 1,043,713; Nov. 5; Gaz. vol. 184; p. 235.
Wire-joint-forming tool. A. B. Probasco. No. 1,031,963; July 9; Gaz. vol. 180; p. 429.
Wire lines, Apparatus for constructing or repairing. E. A. Fredeen. No. 1,036,482; Aug. 20; Gaz. vol. 181; p. 777.
Wire, Making fusible. L. P. Daub. No. 1,013,864; Jan. 9; Sp. p. 1725; Gaz. vol. 174; p. 298.
Wire-netting, Machine for making. H. A. Deuel. No. 1,020,805; Mar. 19; Sp. p. 3828; Gaz. vol. 176; p. 671.
Wire on thermostatic springs, Machine for winding. T. H. Wurmb and R. Baumann. No. 1,028,519; June 4; Sp. p. 1001; Gaz. vol. 179; p. 152.
Wire-puller or come-along. D. W. House. No. 1,036,626; Aug. 27; Gaz. vol. 181; p. 859.
Wire-reel. D. B. Williams. No. 1,031,155; July 2; Gaz. vol. 180; p. 109.
Wire-reel. J. M. Roeder. No. 1,036,008; Aug. 20; Gaz. vol. 181; p. 609.
Wire-reel, Collapsible. W. A. Kilmer and S. Swanbum. No. 1,036,643; Aug. 27; Gaz. vol. 181; p. 865.
Wire reel, Line-. J. and G. M. Welty and C. Brinser. No. 1,017,936; Feb. 20; Sp. p. 3794; Gaz. vol. 175; p. 659.
Wire-reel support. W. A. Kilmer and S. Swanbum. No. 1,036,644; Aug. 27; Gaz. vol. 181; p. 865.
Wire-rope block. W. L. Fulton, G. J. Scrimshaw, and W. M. Snyder. No. 1,034,437; Aug. 6; Gaz. vol. 181; p. 13.
Wire-rope clamp. W. E. Belcher. No. 1,027,234; May 21; Sp. p. 4759; Gaz. vol. 178; p. 801.
Wire-rope hook device. N. O. Norell. No. 1,043,964; Nov. 12; Gaz. vol. 184; p. 355.
Wire-rope machine. E. Gough and E. H. Miller. No. 1,024,196; Apr. 23; Sp. p. 5236; Gaz. vol. 177; p. 917.
Wire-rope socket, Swivel-jar. J. E. Prosser. No. 1,045,883; Dec. 3; Gaz. vol. 185; p. 30.
Wire-splicer. J. Crump. No. 1,020,191; Mar. 12; Sp. p. 2533; Gaz. vol. 176; p. 430.
Wire-splicer. R. Jackman. No. 1,032,909; July 16; Gaz. vol. 180; p. 793.
Wire-splicer. C. A. George. No. 1,048,521; Dec. 31; Gaz. vol. 185; p. 1078.
Wire-splicing tool. H. L. Crowmer. No. 1,039,104; Sept. 24; Gaz. vol. 182; p. 736.
Wire-spoked wheel. J. V. Pugh. No. 1,047,702; Dec. 17; Gaz. vol. 185; p. 734.
Wire springs, Mechanism for coiling and cutting. N. S. Harter. No. 1,040,196; Oct. 1; Gaz. vol. 183; p. 175.
Wire-straightener. C. Greiner. No. 1,032,823; July 16; Gaz. vol. 180; p. 765.
Wire-straightener. G. S. McLean. No. 1,044,899; Nov. 19; Gaz. vol. 184; p. 707.
Wire straightening and cutting-off machine. E. F. Shuster. No. 1,022,888; Apr. 9; Sp. p. 2417; Gaz. vol. 177; p. 413.
Wire straightening and cutting-off machine. E. F. Shuster. No. 1,030,930; July 2; Gaz. vol. 180; p. 27.
Wire straightening and cutting-off machine. F. B. Shuster. No. 1,045,098; Nov. 19; Gaz. vol. 184; p. 776.
Wire straightening, crimping, and cutting machine. O. W. Benster. No. 1,040,493; Oct. 8; Gaz. vol. 183; p. 306.
Wire-stretcher. J. H. W. Jones. No. 1,013,397; Jan. 2; Sp. p. 681; Gaz. vol. 174; p. 108.
Wire-stretcher. R. L. Belk. No. 1,014,035; Jan. 9; Sp. p. 2124; Gaz. vol. 174; p. 355.
Wire-stretcher. E. W. Scott. No. 1,016,785; Feb. 6; Sp. p. 1235; Gaz. vol. 175; p. 190.
Wire-stretcher. J. G. Hall. No. 1,017,147; Feb. 13; Sp. p. 2041; Gaz. vol. 175; p. 351.
Wire-stretcher. A. J. Kinsella. No. 1,020,101; Mar. 12; Sp. p. 2335; Gaz. vol. 176; p. 399.
Wire-stretcher. W. A. Medlin. No. 1,021,371; Mar. 26; Sp. p. 5005; Gaz. vol. 176; p. 914.
Wire-stretcher. J. Fisher. No. 1,021,587; Mar. 26; Sp. p. 5500; Gaz. vol. 176; p. 988.
Wire-stretcher. C. W. Schumann. No. 1,021,635; Mar. 26; Sp. p. 5584; Gaz. vol. 176; p. 1004.
Wire-stretcher. J. W. A. McGilvrey. No. 1,022,102; Apr. 2; Sp. p. 738; Gaz. vol. 177; p. 118.
Wire-stretcher. A. G. Phillips. No. 1,023,394; Apr. 16; Sp. p. 3512; Gaz. vol. 177; p. 625.
Wire-stretcher. E. E. Swarm. No. 1,023,400; Apr. 16; Sp. p. 3525; Gaz. vol. 177; p. 627.
Wire-stretcher. O. P. Starnes. No. 1,023,972; Apr. 23; Sp. p. 4727; Gaz. vol. 177; p. 839.
Wire-stretcher. J. Pitre. No. 1,024,223; Apr. 23; Sp. p. 5298; Gaz. vol. 177; p. 928.
Wire-stretcher. E. D. Jones. No. 1,030,588; June 25; Sp. p. 5616; Gaz. vol. 179; p. 975.
Wire-stretcher. L. Hanson. No. 1,031,115; July 2; Gaz. vol. 180; p. 95.
Wire-stretcher. J. L. Ashworth. No. 1,031,508; July 2; Gaz. vol. 180; p. 229.
Wire-stretcher. R. Rogers. No. 1,032,566; July 16; Gaz. vol. 180; p. 676.
Wire-stretcher. T. W. Luker. No. 1,033,715; July 23; Gaz. vol. 180; p. 1099.
Wire-stretcher. W. O. Hutchins. No. 1,034,458; Aug. 6; Gaz. vol. 181; p. 19.
Wire-stretcher. P. McMillan. No. 1,035,028; Aug. 6; Gaz. vol. 181; p. 208.
Wire-stretcher. H. B. Powell. No. 1,037,529; Sept. 3; Gaz. vol. 182; p. 119.

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Wire-stretcher. P. A. Berry. No. 1,041,727; Oct. 22; Gaz. vol. 183; p. 793.
Wire-stretcher. G. F. Swortfiger. No. 1,044,829; Nov. 19; Gaz. vol. 184; p. 683.
Wire-stretcher. J. C. B. Wood. No. 1,048,626; Dec. 31; Gaz. vol. 185; p. 1113.
Wire-stretcher. S. W. Tate. No. 1,049,169; Dec. 31; Gaz. vol. 185; p. 1300.
Wire-stretcher and hoisting device, Combined. J. B. Smith. No. 1,034,844; Aug. 6; Gaz. vol. 181; p. 149.
Wire stretcher and tightener. J. J. Brown. No. 1,036,792; Aug. 27; Gaz. vol. 181; p. 914.
Wire-stretcher clamp. J. A. Thomas. No. 1,039,214; Sept. 24; Gaz. vol. 182; p. 775.
Wire-stretchers, Grip for. R. J. Talbot. No. 1,020,728; Mar. 19; Sp. p. 3671; Gaz. vol. 176; p. 646.
Wire-stretching device. W. A. Holcomb. No. 1,015,184; Jan. 16; Sp. p. 4614; Gaz. vol. 174; p. 778.
Wire-stretching device. L. M. Davidson. No. 1,018,882; Feb. 27; Sp. p. 5877; Gaz. vol. 175; p. 1014.
Wire-stringing tool, Line-. H. A. Menager. No. 1,036,136; Aug. 20; Gaz. vol. 181; p. 657.
Wire tack. J. A. Welch. No. 1,042,301; Oct. 22; Gaz. vol. 183; p. 987.
Wire-terminals, Fastening device for. P. P. Nungesser. No. 1,023,271; Apr. 16; Sp. p. 3277; Gaz. vol. 177; p. 585.
Wire-terminals, Spiral coil for fastening. P. P. Nungesser. No. 1,023,270; Apr. 16; Sp. p. 3276; Gaz. vol. 177; p. 585.
Wire-tie. J. J. Sanders. No. 1,015,513; Jan. 23; Sp. p. 5345; Gaz. vol. 174; p. 917.
Wire-tie tool. F. E. Beam. No. 1,027,097; May 21; Sp. p. 4482; Gaz. vol. 178; p. 756.
Wire-tightener. A. H. A. Dehlinger. No. 1,026,974; May 21; Sp. p. 4174; Gaz. vol. 178; p. 712.
Wire-tightener. A. Carriere. No. 1,034,078; July 30; Gaz. vol. 180; p. 1253.
Wire to frames, Machine for securing. G. W. Darlington. No. 1,026,789; May 21; Sp. p. 3740; Gaz. vol. 178; p. 647.
Wire-twister. A. E. Lung. No. 1,014,498; Jan. 9; Sp. p. 3096; Gaz. vol. 174; p. 514.
Wire twisting or splicing machine. R. Reed and A. D. Fiveshilling. No. 1,038,789; Sept. 17; Gaz. vol. 182; p. 614.
Wire-weaving, Heddle for. G. H. May. No. 1,023,263; Apr. 16; Sp. p. 3260; Gaz. vol. 177; p. 582.
Wire-weaving machine. A. L. Kitselman. No. 1,014,599; Jan. 9; Sp. p. 3282; Gaz. vol. 174; p. 547.
Wire-winding device. C. C. Wilkinson. No. 1,024,384; Apr. 23; Sp. p. 5582; Gaz. vol. 177; p. 979.
Wire-winding machine. A. L. Eastham. No. 1,035,867; Aug. 20; Gaz. vol. 181; p. 563.
Wire-working appliance. C. K. Wolf. No. 1,038,052; Sept. 10; Gaz. vol. 182; p. 327.
Wire-working device. S. S. Livezey. No. 1,034,262; July 30; Gaz. vol. 180; p. 1317.
Wire-wrapping machine. D. Elder. No. 1,020,599; Mar. 19; Sp. p. 3387; Gaz. vol. 176; p. 601.
Wires, Attaching filaments to leading-in. W. R. Whitney. No. 1,013,914; Jan. 9; Sp. p. 1839; Gaz. vol. 174; p. 315.
Wires on high-voltage circuits, Implement for manipulating. J. Cronin. No. 1,045,680; Nov. 26; Gaz. vol. 184; p. 1010.
Wires on high-voltage circuits, Tool for manipulating. J. Cronin. No. 1,045,679; Nov. 26; Gaz. vol. 184; p. 1010.
Wiring-block. E. S. Pereyra. No. 1,014,720; Jan. 16; Sp. p. 3631; Gaz. vol. 174; p. 621.
Wiring device. A. L. Russell. No. 1,033,948; July 30; Gaz. vol. 180; p. 1207.
Wireless break-key. G. P. Mobley. No. 1,048,849; Dec. 31; Gaz. vol. 185; p. 1192.
Wireless means for controlling aeroplanes. C. L. Vanderburg. No. 1,032,968; July 16; Gaz. vol. 180; p. 812.
Wireless transmission, System of duplex. L. De Forest. No. 1,042,205; Oct. 22; Gaz. vol. 183; p. 955.
Wood and making same, Preserved. C. Ellis. No. 1,020,643; Mar. 19; Sp. p. 3485; Gaz. vol. 176; p. 616.
Wood and making same, Preserved. R. A. Marr. No. 1,023,784; Apr. 16; Sp. p. 4250; Gaz. vol. 177; p. 747.
Wood and making same, Preserved. C. Ellis. No. 1,045,110; Nov. 19; Gaz. vol. 184; p. 780.
Wood, Bending. F. J. Fisher. No. 1,016,684; Feb. 6; Sp. p. 1029; Gaz. vol. 175; p. 156.
Wood-bending device. S. E. Walke. No. 1,016,721; Feb. 6; Sp. p. 1101; Gaz. vol. 175; p. 169.
Wood-bending machine. J. W. Hilger. No. 1,019,472; Mar. 5; Sp. p. 1071; Gaz. vol. 176; p. 158.
Wood-carrier. J. Check. No. 1,027,401; May 28; Sp. p. 5107; Gaz. vol. 178; p. 897.
Wood-carver's tool-holder. R. Hollingsworth. No. 1,031,183; July 2; Gaz. vol. 180; p. 119.
Wood, Coloring. E. Wilhelm. No. 1,042,182; Oct. 22; Gaz. vol. 183; p. 948.
Wood, Composition of matter and preserving and fireproofing. F. Seidenschnur and J. Dehnst. No. 1,041,681; Oct. 15; Gaz. vol. 183; p. 742.
Wood, Composition of matter and preserving and fireproofing. F. Seidenschnur and J. Dehnst. No. 1,041,682; Oct. 15; Gaz. vol. 183; p. 742.
Wood fiber, Device for manufacturing. A. L. Widdis. No. 1,046,130; Dec. 3; Gaz. vol. 185; p. 114.
Wood-finishing. L. H. Baekeland and N. Thurlow. No. 1,019,408; Mar. 5; Sp. p. 946; Gaz. vol. 176; p. 138.
Wood-fuming apparatus. H. W. De Prez. No. 1,015,008; Jan. 16; Sp. p. 4285; Gaz. vol. 174; p. 720.
Wood-gaining machine. W. L. Hume. No. 1,016,828; Feb. 6; Sp. p. 1319; Gaz. vol. 175; p. 203.
Wood-grinder. P. Priem. No. 1,030,919; July 2; Gaz. vol. 180; p. 23.
Wood-impregnating apparatus. W. W. Norman. No. 1,038,423; Sept. 10; Gaz. vol. 182; p. 453.
Wood, Impregnation of. J. Polifka and B. Hacker. No. 1,024,864; Apr. 30; Sp. p. 6725; Gaz. vol. 177; p. 1184.
Wood in salt water, Protecting. G. Schumacher. No. 1,039,824; Oct. 1; Gaz. vol. 183; p. 52.
Wood, Preserved. H. M. Newton. No. 1,037,831; Sept. 3; Gaz. vol. 182; p. 218.
Wood, Preserved. H. M. Newton. No. 1,037,832; Sept. 3; Gaz. vol. 182; p. 218.
Wood, Preserving. W. J. Watson. No. 1,015,862; Jan. 30; Sp. p. 6095; Gaz. vol. 174; p. 1063.
Wood, Preserving. E. Marmetschke. No. 1,016,024; Jan. 30; Sp. p. 6441; Gaz. vol. 174; p. 1121.
Wood, Preserving. C. Ellis. No. 1,017,636; Feb. 13; Sp. p. 3064; Gaz. vol. 175; p. 516.
Wood, Preserving. C. H. Curtis. No. 1,022,064; Apr. 2; Sp. p. 661; Gaz. vol. 177; p. 106.
Wood, Preserving. C. Ellis. No. 1,028,201; June 4; Sp. p. 323; Gaz. vol. 179; p. 43.
Wood, Preserving. M. F. Goltra. No. 1,047,404; Dec. 17; Gaz. vol. 185; p. 628.
Wood, Preserving and coloring. C. J. Faller. No. 1,043,582; Nov. 5; Gaz. vol. 184; p. 192.
Wood, Preserving and hardening. E. Sucher. No. 1,016,111; Jan. 30; Sp. p. 6632; Gaz. vol. 174; p. 1153.
Wood-preserving compound. E. L. Powell. No. 1,036,706; Aug. 27; Gaz. vol. 181; p. 886.
Wood-splitting machine. F. Barnhart. No. 1,020,072; Mar. 12; Sp. p. 2265; Gaz. vol. 176; p. 390.
Wood-stain, Making. W. H. Smith. No. 1,024,531; Apr. 30; Sp. p. 5997; Gaz. vol. 177; p. 1067.
Wood, Treating. J. W. Illingworth. No. 1,025,628; May 7; Sp. p. 1173; Gaz. vol. 178; p. 180.
Wood-turning machine. D. S. Courtney. No. 1,046,149; Dec. 3; Gaz. vol. 185; p. 121.
Wood, Vulcanized. C. Howard. No. 1,021,676; Mar. 26; Sp. p. 5649; Gaz. vol. 176; p. 1016.
Woods, Treating red-gum and other like. T. H. Sampson. No. 1,048,102; Dec. 24; Gaz. vol. 185; p. 897.
Wooden articles buried in the earth, Preserving. N. Kolár and W. Jancsó. No. 1,042,564; Oct. 29; Gaz. vol. 183; p. 1106.
Wooden pins or pegs, Machine for the manufacture of. C. Lumello. No. 1,029,503; June 11; Sp. p. 3109; Gaz. vol. 179; p. 522.
Wooden plate, Compound. H. H. Basse. No. 1,015,775; Jan. 30; Sp. p. 5912; Gaz. vol. 174; p. 1035.
Woodworking-clamp. A. J. Schulte. No. 1,029,471; June 11; Sp. p. 3052; Gaz. vol. 179; p. 511.
Woodworking-machine. A. Victor. No. 1,016,379; Feb. 6; Sp. p. 309; Gaz. vol. 175; p. 49.
Woodworking-machine attachment. W. T. Boothby. No. 1,022,176; Apr. 2; Sp. p. 898; Gaz. vol. 177; p. 143.
Woodworking-machines, Automatic feed for. W. H. Pridgen. No. 1,033,732; July 23; Gaz. vol. 180; p. 1105.
Woodworking-machines, Feed and pressure mechanism for. C. W. Borg. No. 1,038,483; Sept. 10; Gaz. vol. 182; p. 473.
Woodworking machinery. J. C. De Laney. No. 1,042,331; Oct. 22; Gaz. vol. 183; p. 997.
Woodworking or routing machine. G. L. Kelley. No. 1,046,075; Dec. 3; Gaz. vol. 185; p. 94.
Woodworking or routing machine guide device. G. L. Kelley. No. 1,042,120; Oct. 22; Gaz. vol. 183; p. 027.
Woodworking-shapers, Adjustable dead-collar for. H. G. Eggleston. No. 1,032,128; July 9; Gaz. vol. 180; p. 482.
Woodworking-tool. J. L. Leavitt. No. 1,017,774; Feb. 20; Sp. p. 3410; Gaz. vol. 175; p. 601.
Woodworking-tool. R. S. N. Burdick. No. 1,043,902; Nov. 12; Gaz. vol. 184; p. 331.
Work-box. F. W. Hawkes. No. 1,014,060; Jan. 9; Sp. p. 2174; Gaz. vol. 174; p. 364.
Work-carrying means. B. M. W. Hanson. No. 1,042,000; Oct. 22; Gaz. vol. 183; p. 888.
Work-clamp. J. G. Sisson. No. 1,039,831; Oct. 1; Gaz. vol. 183; p. 54.
Work-gage. L. A. Casgrain. No. 1,048,295; Dec. 24; Gaz. vol. 185; p. 961.
Work gaging and holding means. F. W. Albrecht. No. 1,023,407; Apr. 16; Sp. p. 3535; Gaz. vol. 177; p. 629.
Work-holder. H. C. Wilson. No. 1,017,615; Feb. 13; Sp. p. 3014; Gaz. vol. 175; p. 509.
Work-holder. A. E. Greene. No. 1,024,256; Apr. 23; Sp. p. 5365; Gaz. vol. 177; p. 940.

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Work-holder. J. Tedell. No. 1,033,491; July 23; Gaz. vol. 180; p. 1027.
Work-holder. H. Howell. No. 1,033,758; July 23; Gaz. vol. 180; p. 1112.
Work-holder. L. E. Whiton. No. 1,046,523; Dec. 10; Gaz. vol. 185; p. 292.
Work-support. J. M. Wiggin. No. 1,014,353; Jan. 9; Sp. p. 2823; Gaz. vol. 174; p. 467.
Work-support. C. S. Wells. No. 1,018,537; Feb. 27; Sp. p. 5161; Gaz. vol. 175; p. 898.
Work-support. J. J. Gillespie. No. 1,022,412; Apr. 9; Sp. p. 1372; Gaz. vol. 177; p. 252.
Work-support. J. F. Davey. No. 1,023,300; Apr. 16; Sp. p. 3321; Gaz. vol. 177; p. 594.
Work-support. L. A. Casgrain. No. 1,030,971; July 2; Gaz. vol. 180; p. 42.
Work-support. R. F. McFeely. No. 1,042,460; Oct. 29; Gaz. vol. 183; p. 1070.
Work-support-actuating mechanism. G. A. Ambler. No. 1,013,833; Jan. 2; Sp. p. 1616; Gaz. vol. 174; p. 258.
Work-support-actuating mechanism. G. Goddu. No. 1,031,438; July 2; Gaz. vol. 180; p. 206.
Work-supports, Actuating mechanism for. G. A. Ambler. No. 1,029,839; June 18; Sp. p. 3865; Gaz. vol. 179; p. 675.
Worm-wheels, Tool for cutting teeth on. O. T. Anderson. No. 1,023,353; Apr. 16; Sp. p. 3425; Gaz. vol. 177; p. 612.
Wort-macerating apparatus. R. Hoffmann. No. 1,015,443; Jan. 23; Sp. p. 5200; Gaz. vol. 174; p. 894.
Wort-regulator for mash-tuns. S. W. Cole. No. 1,041,433; Oct. 15; Gaz. vol. 183; p. 660.
Woven fabric. W. G. Trautvetter. No. 1,033,843; July 30, Gaz. vol. 180; p. 1169.
Wrapper. J. Dunfee. No. 1,025,457; May 7; Sp. p. 779; Gaz. vol. 178; p. 122.
Wrapper, Dry-goods. A. Lindgren. No. 1,045,046; Nov. 19; Gaz. vol. 184; p. 758.
Wrapper-folding machine. S. G. Lipscomb. No. 1,042,577; Oct. 29; Gaz. vol. 183; p. 1112.
Wrapper for newspapers, periodicals, and the like. E. H. Roden. No. 1,019,525; Mar. 5; Sp. p. 1189; Gaz. vol. 176; p. 176.
Wrapper for skeins of thread and needles. C. Fisher. No. 1,014,586; Jan. 9; Sp. p. 3253; Gaz. vol. 174; p. 543.
Wrapper, Merchandise-. L. A. Waters. No. 1,047,351; Dec. 17; Gaz. vol. 185; p. 612.
Wrapper or sealing-strip for cans, packages, and the like. E. H. Roden. No. 1,032,026; July 9; Gaz. vol. 180; p. 449.
Wrappers, Machine for forming conical-necked. W. Dichmann. No. 1,039,108; Sept. 24; Gaz. vol. 182; p. 737.
Wrapping and labeling machines, Conveyer for. N. J. Matthews, R. L. Johnstone, and A. W. Cash. No. 1,024,012; Apr. 23; Sp. p. 4790; Gaz. vol. 177; p. 852.
Wrapping for food products, Protective preservative. J. J. Fitzgerald. No. 1,048,674; Dec. 31; Gaz. vol. 185; p. 1132.
Wrapping-machine. H. O. Fischer. No. 1,016,067; Jan. 30; Sp. p. 6547; Gaz. vol. 174; p. 1137.
Wrapping-machine. B. V. Edwards. No. 1,023,824; Apr. 23; Sp. p. 4365; Gaz. vol. 177; p. 789.
Wrapping-machine. M. J. Power. No. 1,026,049; May 14; Sp. p. 2110; Gaz. vol. 178; p. 358.
Wrapping-machine. F. Grover. No. 1,037,617; Sept. 3; Gaz. vol. 182; p. 147.
Wrapping-machine. G. I. Hohl. No. 1,040,201; Oct. 1; Gaz. vol. 183; p. 178.
Wrapping-machine. E. J. Loewy. No. 1,047,422; Dec. 17; Gaz. vol. 185; p. 634.
Wrapping-machine. R. A. Berger. No. 1,048,933; Dec 31; Gaz. vol. 185; p. 1220.
Wrapping machine, Candy-. J. T. Williams. No. 1,046,526; Dec. 10; Gaz. vol. 185; p. 293.
Wrapping machine, Package-. F. M. Peters and H. H. Hungerford. No. 1,043,863; Nov. 12; Gaz. vol. 184; p. 318.
Wrapping merchandise, &c. C. H. Dirnberger. No. 1,037,218; Sept. 3; Gaz. vol. 182; p. 14.
Wrapping or mailing machine. F. C. Waldron. No. 1,033,968; July 30; Gaz. vol. 180; p. 1214.
Wrapping pamphlets and similar articles, Machine for. W. Hall. No. 1,041,069; Oct. 15; Gaz. vol. 183; p. 538.
Wreck-raising appliance. V. Buffulini and R. Rottenbacher. No. 1,030,869; July 2; Gaz. vol. 180; p. 7.
Wrench: *See* Chain wrench; Convertible wrench; Driven wrench; Hub-wrench; Monkey-wrench; Nut-wrench; Pipe-wrench; Power-wrench; Quick-release wrench; Ratchet-wrench; Reversible casing-wrench; Screw-wrench; Sliding-jaw wrench; Socket-wrench; Tap-wrench; Tire-bolt wrench; Vehicle-wrench.
Wrench. J. T. Jones. No. 1,013,174; Jan. 2; Sp. p. 170; Gaz. vol. 174; p. 30.
Wrench. J. A. Overlander. No. 1,014,251; Jan. 9; Sp. p. 2590; Gaz. vol. 174; p. 432.
Wrench. W. Bowden. No. 1,014,563; Jan. 9; Sp. p. 3212; Gaz. vol. 174; p. 535.
Wrench. C. H. Mekeel, Jr. No. 1,014,714; Jan. 16; Sp. p. 3610; Gaz. vol. 174; p. 618.
Wrench. F. V. Hendrickson. No. 1,015,181; Jan. 16; Sp. p. 4609; Gaz. vol. 174; p. 777.
Wrench. J. Kovacs. No. 1,015,194; Jan. 16; Sp. p. 4637; Gaz. vol. 174; p. 782.
Wrench. L. S. Whitehead. No. 1,015,659; Jan. 23; Sp. p. 5668; Gaz. vol. 174; p. 968.
Wrench. J. C. Granger. No. 1,015,883; Jan. 30; Sp. p. 6149; Gaz. vol. 174; p. 1071.
Wrench. H. W. Meldrum. No. 1,015,970; Jan. 30; Sp. p. 6328; Gaz. vol. 174; p. 1101.
Wrench. A. L. Trimbath. No. 1,016,049; Jan. 30; Sp. p. 6500; Gaz. vol. 174; p. 1131.
Wrench. C. E. Peterson. No. 1,016,578; Feb. 6; Sp. p. 804; Gaz. vol. 175; p. 119.
Wrench. J. Reiber. No. 1,016,776; Feb. 6; Sp. p. 1223; Gaz. vol. 175; p. 188.
Wrench. B. W. Frecska. No. 1,017,143; Feb. 13; Sp. p. 2035; Gaz. vol. 175; p. 349.
Wrench. M. A. Johnson. No. 1.017,550; Feb. 13; Sp. p. 2898; Gaz. vol. 175; p. 490.
Wrench. E. H. Iveson. No. 1,018,321; Feb. 20; Sp. p. 4608; Gaz. vol. 175; p. 791.
Wrench. R. Schwarz. No. 1,018,347; Feb. 20; Sp. p. 4651; Gaz. vol. 175; p. 799.
Wrench. A. C. Suddarth. No. 1,018,528; Feb. 27; Sp. p. 5133; Gaz. vol. 175; p. 894.
Wrench. G. Valenza. No. 1,019,204; Mar. 5; Sp. p. 437; Gaz. vol. 176; p. 69.
Wrench. J. Wiernicki. No. 1,019,575; Mar. 5; Sp. p. 1279; Gaz. vol. 176; p. 191.
Wrench. H. G. Kreger. No. 1,019,806; Mar. 12; Sp. p. 1721; Gaz. vol. 176; p. 301.
Wrench. A. Shirk. No. 1,021,272; Mar. 26; Sp. p. 4818; Gaz. vol. 176; p. 878.
Wrench. F. Machava. No. 1,021,542; Mar. 26; Sp. p. 5410; Gaz. vol. 176; p. 974.
Wrench. J. W. Schwab. No. 1,022,269; Apr. 2; Sp. p. 1085; Gaz. vol. 177; p. 174.
Wrench. G. B. Weatherly. No. 1,022,520; Apr. 9; Sp. p. 1615; Gaz. vol. 177; p. 288.
Wrench. G. M. Custer. No. 1,022,534; Apr. 9; Sp. p. 1646; Gaz. vol. 177; p. 293.
Wrench. L. Hermann. No. 1,022,783; Apr. 9; Sp. p. 2214; Gaz. vol. 177; p. 379.
Wrench. C. A. Soderholm. No. 1,022,892; Apr. 9; Sp. p. 2428; Gaz. vol. 177; p. 414.
Wrench. H. C. Bennetch. No. 1,023,001; Apr. 9; Sp. p. 2658; Gaz. vol. 177; p. 453.
Wrench. J. Herron. No. 1,024,075; Apr. 23; Sp. p. 4937; Gaz. vol. 177; p. 875.
Wrench. F. Kovács. No. 1,024,901; Apr. 30; Sp. p. 6801; Gaz. vol. 177; p. 1195.
Wrench. M. Pietilainen. No. 1,024,907; Apr. 30; Sp. p. 6811; Gaz. vol. 177; p. 1197.
Wrench. H. M. Wood. No. 1,025,179; May 7; Sp. p. 154; Gaz. vol. 178; p. 26.
Wrench. A. Szabados. No. 1,025,431; May 7; Sp. p. 707; Gaz. vol. 178; p. 112.
Wrench. W. Mackie. No. 1,025,703; May 7; Sp. p. 1317; Gaz. vol. 178; p. 205.
Wrench. R. E. Miller. No. 1,025,709; May 7; Sp. p. 1330; Gaz. vol. 178; p. 207.
Wrench. J. C. Snyder. No. 1,025,842; May 7; Sp. p. 1599; Gaz. vol. 178; p. 254.
Wrench. C. E. Straub. No. 1,026,005; May 14; Sp. p. 1996; Gaz. vol. 178; p. 344.
Wrench. G. C. Pangratz. No. 1,026,174; May 14; Sp. p. 2383; Gaz. vol. 178; p. 402.
Wrench. F. H. Dickson. No. 1,026,661; May 21; Sp. p. 3459; Gaz. vol. 178; p. 603.
Wrench. L. Halverstadt. No. 1,027,203; May 21; Sp. p. 4704; Gaz. vol. 178; p. 790.
Wrench. B. A. Stocking. No. 1,027,220; May 21; Sp. p. 4734; Gaz. vol. 178; p. 795.
Wrench. G. Jurkovich. No. 1,027,341; May 21; Sp. p. 4969; Gaz. vol. 178; p. 837.
Wrench. D. O. Tuke. No. 1,027,452; May 28; Sp. p. 5204; Gaz. vol. 178; p. 913.
Wrench. E. Foster. No. 1,027,830; May 28; Sp. p. 5989; Gaz. vol. 178; p. 1039.
Wrench. L. Manek. No. 1,027,870; May 28; Sp. p. 6132; Gaz. vol. 178; p. 1052.
Wrench. S. C. Cruzan. No. 1,028,192; June 4; Sp. p. 305; Gaz. vol. 179; p. 39.
Wrench. C. T. Melhorn. No. 1,028,243; June 4; Sp. p. 405; Gaz. vol. 179; p. 57.
Wrench. A. Iring. No. 1,028,883; June 11; Sp. p. 1765; Gaz. vol. 179; p. 308.
Wrench. W. A. Little. No. 1,029,074; June 11; Sp. p. 2173; Gaz. vol. 179; p. 374.
Wrench. C. A. Reeves. No. 1,029,142; June 11; Sp. p. 2332; Gaz. vol. 179; p. 397.
Wrench. J. R. Coyle. No. 1,029,171; June 11; Sp. p. 2389; Gaz. vol. 179; p. 407.
Wrench. C. E. Bradford. No. 1,029,418; June 11; Sp. p. 2945; Gaz. vol. 179; p. 492.
Wrench. G. Andersen. No. 1,029,905; June 18; Sp. p. 4018; Gaz. vol. 179; p. 698.
Wrench. F. W. Pringle. No. 1,029,944; June 18; Sp. p. 4099; Gaz. vol. 179; p. 711.

Wrench. W. C. Cole. No. 1,030,232; June 18; Sp. p. 4704; Gaz. vol. 179; p. 809.
Wrench. A. Martin. No. 1,030,907; July 2; Gaz. vol. 180; p. 19.
Wrench. T. J. Kennel. No. 1,031,070; July 2; Gaz. vol. 180; p. 79.
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Wrench. L. C. Sherman. No. 1,031,474; July 2; Gaz. vol. 180; p. 218.
Wrench. W. N. Jay. No. 1,031,717; July 9; Gaz. vol. 180; p. 344.
Wrench. G. Koesis and C. Balazs. No. 1,032,145; July 9; Gaz. vol. 180; p. 488.
Wrench. R. C. Showalter. No. 1,032,305; July 9; Gaz. vol. 180; p. 544.
Wrench. E. H. Anderson. No. 1,032,580; July 16; Gaz. vol. 180; p. 680.
Wrench. C. A. Bancroft. No. 1,032,871; July 16; Gaz. vol. 180; p. 781.
Wrench. B. B. Chase and E. Van Sickle. No. 1,033,049; July 16; Gaz. vol. 180; p. 840.
Wrench. C. H. Luthman. No. 1,033,182; July 23; Gaz. vol. 180; p. 924.
Wrench. J. L. Turner. No. 1,033,358; July 23; Gaz. vol. 180; p. 984.
Wrench. E. A. Wagener. No. 1,033,768; July 23; Gaz. vol. 180; p. 1116.
Wrench. G. A. Stewart. No. 1,033,839; July 30; Gaz. vol. 180; p. 1168.
Wrench. W. G. Natzmer. No. 1,034,138; July 30; Gaz. vol. 180; p. 1273.
Wrench. E. J. Bourne. No. 1,034,341; July 30; Gaz. vol. 180; p. 1344.
Wrench. W. A. Lee. No. 1,034,470; Aug. 6; Gaz. vol. 181; p. 23.
Wrench. G. Márkus. No. 1,035,886; Aug. 20; Gaz. vol. 181; p. 570.
Wrench. C. E. Townsend. No. 1,035,921; Aug. 20; Gaz. vol. 181; p. 582.
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Wrench. H. E. Logan. No. 1,036,501; Aug. 20; Gaz. vol. 181; p. 785.
Wrench. J. Dolan. No. 1,036,585; Aug. 27; Gaz. vol. 181; p. 846.
Wrench. C. H. Douglas. No. 1,038,539; Sept. 17; Gaz. vol. 182; p. 527.
Wrench. H. Zielinski. No. 1,038,708; Sept. 17; Gaz. vol. 182; p. 586.
Wrench. B. B. Caldwell. No. 1,038,846; Sept. 17; Gaz. vol. 182; p. 635.
Wrench. R. M. Snyder. No. 1,039,458; Sept. 24; Gaz. vol. 182; p. 860.
Wrench. H. J. Wilker. No. 1,039,466; Sept. 24; Gaz. vol. 182; p. 863.
Wrench. L. G. Crosby and J. C. Slaughenhaupt. No. 1,039,493; Sept. 24; Gaz. vol. 182; p. 872.
Wrench. P. P. Glass. No. 1,039,515; Sept. 24; Gaz. vol. 182; p. 882.
Wrench. W. C. Adams. No. 1,040,092; Oct. 1; Gaz. vol. 183; p. 140.
Wrench. C. E. Townsend. No. 1,040,464; Oct. 8; Gaz. vol. 183; p. 296.
Wrench. J. Helstrom. No. 1,040,673; Oct. 8; Gaz. vol. 183; p. 374.
Wrench. G. Moore. No. 1,040,729; Oct. 8; Gaz. vol. 183; p. 392.
Wrench. J. Sosnierz. No. 1,040,802; Oct. 8; Gaz. vol. 183; p. 415.
Wrench. C. Abrams. No. 1,040,835; Oct. 8; Gaz. vol. 183; p. 426.
Wrench. A. C. Ingerham. No. 1,040,982; Oct. 8; Gaz. vol. 183; p. 475.
Wrench. C. A. Hoover and J. G. Hetrick. No. 1,041,627; Oct. 15; Gaz. vol. 183; p. 722.
Wrench. G. W. Waitt. No. 1,041,707; Oct. 15; Gaz. vol. 183; p. 751.
Wrench. M. E. Bigelow. No. 1,041,956; Oct. 22; Gaz. vol. 183; p. 873.
Wrench. W. Cronk. No. 1,041,967; Oct. 22; Gaz. vol. 183; p. 877.
Wrench. S. Takács. No. 1,042,053; Oct. 22; Gaz. vol. 183; p. 906.
Wrench. A. Carp. No. 1,042,531; Oct. 29; Gaz. vol. 183; p. 1095.
Wrench. B. C. Wildmo. No. 1,042,736; Oct. 29; Gaz. vol. 183; p. 1168.
Wrench. E. B. Brink. No. 1,042,762; Oct. 29; Gaz. vol. 183; p. 1176.
Wrench. P. Fernandez. No. 1,042,777; Oct. 29; Gaz. vol. 183; p. 1182.
Wrench. W. Berndt. No. 1,044,478; Nov. 19; Gaz. vol. 184; p. 560.
Wrench. T. A. Lauscha. No. 1,044,541; Nov. 19; Gaz. vol. 184; p. 582.
Wrench. D. F. Wack, Jr. No. 1,044,712; Nov. 19; Gaz. vol. 184; p. 642.
Wrench. H. Davidson. No. 1,044,998; Nov. 19; Gaz. vol. 184; p. 741.
Wrench. P. Wilson. No. 1,045,924; Dec. 3; Gaz. vol. 185; p. 44.
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Wrench. O. Köllüs. No. 1,046,200; Dec. 3; Gaz. vol. 185; p. 138.
Wrench. E. J. Fry. No. 1,046,286; Dec. 3; Gaz. vol. 185; p. 170.
Wrench. W. C. Lennox. No. 1,046,312; Dec. 3; Gaz. vol. 185; p. 180.
Wrench. M. J. St. John. No. 1,046,892; Dec. 10; Gaz. vol. 185; p. 420.
Wrench. L. E. Gronkowski. No. 1,047,046; Dec. 10; Gaz. vol. 185; p. 470.
Wrench. T. C. Gray. No. 1,048,067; Dec. 24; Gaz. vol. 185; p. 885.
Wrench. J. K. Daniels. No. 1,048,298; Dec. 24; Gaz. vol. 185; p. 962.
Wrench. C. G. and C. F. Youngquist. No. 1,048,380; Dec. 24; Gaz. vol. 185; p. 991.
Wrench. D. P. Kahle. No. 1,048,542; Dec. 31; Gaz. vol. 185; p. 1084.
Wrench. L. Miceusz. No. 1,048,994; Dec. 31; Gaz. vol. 185; p. 1241.
Wrench and clamp, Combined. W. Charlton. No. 1,039,027; Sept. 17; Gaz. vol. 182; p. 694.
Wrenches, clamps, vises, and similar tools, Mechanical movement for adjusting the jaws of. A. C. Tuttle. No. 1,037,087; Aug. 27; Gaz. vol. 181; p. 1012.
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Wringer. H. J. Frederick. No. 1,016,685; Feb. 6; Sp. p. 1029; Gaz. vol. 175; p. 157.
Wringer. W. M. Valentine. No. 1,027,363; May 21; Sp. p. 5019; Gaz. vol. 178; p. 845.
Wringer. H. S. Judd and H. Pletsch. No. 1,033,593; July 23; Gaz. vol. 180; p. 1061.
Wringer. C. J. Marth. No. 1,047,544; Dec. 17; Gaz. vol. 185; p. 677.
Wringer. S. E. Schroeder. No. 1,048,215; Dec. 24; Gaz. vol. 185; p. 935.
Wringer-support. W. V. Lear. No. 1,045,302; Nov. 26; Gaz. vol. 184; p. 874.
Wringing device. J. O. Beazley. No. 1,042,072; Oct. 22; Gaz. vol. 183; p. 911.
Writing characters, Device for producing. G. Bahr. No. 1,022,384; Apr. 2; Sp. p. 1311; Gaz. vol. 177; p. 212.
Writing for the use of the blind, Device for. W. L. Heiskell. No. 1,019,789; Mar. 12; Sp. p. 1691; Gaz. vol. 176; p. 295.
Writing-machine. H. S. Frew and F. P. Sexton. No. 1,030,807; June 25; Sp. p. 6249; Gaz. vol. 179; p. 1055.
Writing-machine. H. S. Frew and F. P. Sexton. No. 1,033,067; July 16; Gaz. vol. 180; p. 847.
Writing-machine, Automatic. F. F. Main. No. 1,034,131; July 30; Gaz. vol. 180; p. 1271.
Writing-machine, Electric. I. S. Brown. No. 1,027,984; May 28; Sp. p. 6355; Gaz. vol. 178; p. 1091.
Writing machine, Multiple-. J. S. Brand. No. 1,038,486; Sept. 10; Gaz. vol. 182; p. 474.
Writing machine, Syllable-. P. de Carsalade du Pont. No. 1,024,679; Apr. 30; Sp. p. 6342; Gaz. vol. 177; p. 1118.
Writing-machines, Detachable type-bar for. H. E. Bridgwater. No. 1,023,806; Apr. 23; Sp. p. 4326; Gaz. vol. 177; p. 783.
Writing-pad foldable holder. O. J. and K. B. Kennedy. No. 1,025,193; May 7; Sp. p. 182; Gaz. vol. 178; p. 31.
Writing-tablet. E. M. Africa and B. E. McSheehy. No. 1,032,725; July 16; Gaz. vol. 180; p. 732.
Wrist-pins, Lubricating means for. J. Craig. No. 1,020,638; Mar. 19; Sp. p. 3476; Gaz. vol. 176; p. 614.
X-ray apparatus. H. F. Waite. No. 1,024,165; Apr. 23; Sp. p. 5155; Gaz. vol. 177; p. 906.
X-ray finder. A. Granger. No. 1,026,158; May 14; Sp. p. 2355; Gaz. vol. 178; p. 398.
X-ray tube. J. Rosenthal. No. 1,028,969; June 11; Sp. p. 1955; Gaz. vol. 179; p. 338.
X-ray tube. E. W. Caldwell. No. 1,029,850; June 18; Sp. p. 3899; Gaz. vol. 179; p. 679.
X-ray tube. H. Green. No. 1,042,109; Oct. 22; Gaz. vol. 183; p. 925.
X-ray tube. J. H. Snively. No. 1,048,433; Dec. 24; Gaz. vol. 185; p. 1008.
X-ray-tube vacuum-controller. C. Gaveau. No. 1,045,542; Nov. 26; Gaz. vol. 184; p. 961.
X-ray tubes, Gas-regulator for. R. H. Machlett. No. 1,025,635; May 7; Sp. p. 1187; Gaz. vol. 178; p. 182.
X-ray tubes, Vacuum-regulator for. B. E. Baker. No. 1,027,795; May 28; Sp. p. 5897; Gaz. vol. 178; p. 1026.
Xylophone. H. Welch. No. 1,021,345; Mar. 26; Sp. p. 4962; Gaz. vol. 176; p. 906.
Yarn-clearer. C. N. Childs. No. 1,026,907; May 21; Sp. p. 4010; Gaz. vol. 178; p. 689.
Yarn-cone. M. T. Murphy. No. 1,037,295; Sept. 3; Gaz. vol. 182; p. 39.
Yarn-cutter. B. H. Ponder. No. 1,015,339; Jan. 23; Sp. p. 4976; Gaz. vol. 174; p. 859.
Yarn-dampening device. W. H. O'Neill and H. Parker, Jr. No. 1,015,705; Jan. 23; Sp. p. 5772; Gaz. vol. 174; p. 984.

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Yarn-guide. F. S. Rand. No. 1,029,399; June 11; Sp. p. 2911; Gaz. vol. 179; p. 486.
Yarn guide and clearer. W. T. C. Harrington. No. 1,048,830; Dec. 31; Gaz. vol. 185; p. 1186.
Yarn guiding, clearing, and tension device, Combined. L. Fessmann and G. Hämmerle. No. 1,043,309; Nov. 5; Gaz. vol. 184; p. 95.
Yarn-sizing machine. C. E. Clark. No. 1,020,343; Mar. 12; Sp. p. 2820; Gaz. vol. 176; p. 478.
Yarn-stripper. W. Hurd. No. 1,041,088; Oct. 15; Gaz. vol. 183; p. 545.
Yarn-tension device. E. Sykes. No. 1,014,980; Jan. 16; Sp. p. 4225; Gaz. vol. 174; p. 711.
Yarns, Apparatus for cleansing, washing, or dyeing woolen, cotton, and other. P. Fincato. No. 1,037,461; Sept. 3; Gaz. vol. 182; p. 97.
Yarns, fabric, and the like, Imparting luster to. L. Schreiner. No. 1,020,117; Mar. 12; Sp. p. 2371; Gaz. vol. 176; p. 405.
Yeast, Cleaning beer-. G. Erdmann. No. 1,045,689; Nov. 26; Gaz. vol. 184; p. 1013.
Yeast, Increasing the raising power of dried. P. D. H. Ohlhaver. No. 1,021,700; Mar. 26; Sp. p. 5692; Gaz. vol. 176; p. 1025.
Yeast, Maintaining the vitality of dried. P. D. H. Ohlhaver. No. 1,039,999; Oct. 1; Gaz. vol. 183; p. 109.
Yeast, Manufacturing dried. P. D. H. Ohlhaver. No. 1,020,306; Mar. 12; Sp. p. 2752; Gaz. vol. 176; p. 467.
Yeast, Producing dry. E. Koelitz. No. 1,033,807; July 30; Gaz. vol. 180; p. 1157.
Yeast washing and aerating apparatus. F. Schimper. No. 1,020,716; Mar. 19; Sp. p. 3648; Gaz. vol. 176; p. 642.
Yeast-wort and producing the same. O. W. Willcox. No. 1,044,615; Nov. 19; Gaz. vol. 184; p. 608.
Yoke, Animal-. E. Burton. No. 1,027,591; May 28; Sp. p. 5487; Gaz. vol. 178; p. 959.
Yoke center, Neck-. S. H. Renville. No. 1,015,248; Jan. 16; Sp. p. 4743; Gaz. vol. 174; p. 800.
Yoke connector, Neck-. R. L. Fithian. No. 1,033,238; July 23; Gaz. vol. 180; p. 944.
Yoke end coupling, Neck-. S. H. Renville. No. 1,015,247; Jan. 16; Sp. p. 4742; Gaz. vol. 174; p. 800.
Yoke fastener, Neck-. G. W. Hurst. No. 1,021,102; Mar. 26; Sp. p. 4440; Gaz. vol. 176; p. 822.
Yoke, Neck-. M. T. Betts. No. 1,046,725; Dec. 10; Gaz. vol. 185; p. 364.
Yoke or tongue attachment, Neck-. J. B. Davis. No. 1,020,268; Mar. 12; Sp. p. 2680; Gaz. vol. 176; p. 455.
Yoke safety attachment, Neck-. J. N. Novotny. No. 1,041,150; Oct. 15; Gaz. vol. 183; p. 565.
Yoke, Safety neck-. J. N. Novotny. No. 1,026,997; May 21; Sp. p. 4223; Gaz. vol. 178; p. 720.
Yoke stop, Neck-. W. Knight. No. 1,047,246; Dec. 17; Gaz. vol. 185; p. 571.
Yokes, Center-piece for buggy neck-. H. W. Stimson. No. 1,027,926; May 28; Sp. p. 6239; Gaz. vol. 178; p. 1071.
Yokes, Wear-loop for neck-. W. A. Shidler. No. 1,043,259; Nov. 5; Gaz. vol. 184; p. 75.
Zinc and lead from mixed sulfids, Separating. C. A. L. W. Witter. No. 1,047,360; Dec. 17; Gaz. vol. 185; p. 615.
Zinc and purifying and improving the same. A. J. Rossi. No. 1,020,512; Mar. 19; Sp. p. 3183; Gaz. vol. 176; p. 572.
Zinc, Battery-. J. Beattie. No. 1,027,169; May 21; Sp. p. 4630; Gaz. vol. 178; p. 777.
Zinc distillation. J. C. Moulden and H. W. Webster. No. 1,030,676; June 25; Sp. p. 5899; Gaz. vol. 179; p. 1008.
Zinc from galvanized-iron articles, Recovering. E. Broemme. No. 1,042,315; Oct. 22; Gaz. vol. 183; p. 991.
Zinc-furnace. G. Londress and W. Worley. No. 1,048,420; Dec. 24; Gaz. vol. 185; p. 1003.
Zinc-lead ores, Treatment of refractory. A. G. French. No. 1,041,060; Oct. 15; Gaz. vol. 183; p. 535.
Zinc, Metallurgy of. C. V. Thierry. No. 1,030,349; June 25; Sp. p. 4992; Gaz. vol. 179; p. 890.
Zinc, Metallurgy of. C. V. Thierry. No. 1,030,350; June 25; Sp. p. 4995; Gaz. vol. 179; p. 890.
Zinc, Metallurgy of. C. V. Thierry. No. 1,030,351; June 25; Sp. p. 4999; Gaz. vol. 179; p. 891.
Zinc oxid, Producing. H. H. Hughes. No. 1,014,062; Jan. 9; Sp. p. 2177; Gaz. vol. 174; p 364.
Zinc retort-furnace. C. A. H. De Saulles. No. 1,041,977; Oct. 22; Gaz. vol. 183; p. 881.
Zinc sulfid and thiosulfates, Producing pure. P. Pipereaut and A. Vila. No. 1,013,511; Jan. 2; Sp. p. 918; Gaz. vol. 174; p. 147.
Zincate solutions, Preparation of. C. Ranson. No. 1,023,964; Apr. 23; Sp. p. 4712; Gaz. vol. 177; p. 836.
Zither, Keyed. B. R. Kiessig. No. 1,015,896; Jan. 30; Sp. p. 6169; Gaz. vol. 174; p. 1076.
Zither, Keyed. J. Mecera. No. 1,040,232; Oct. 1; Gaz. vol. 183; p. 187.
Zither, Keyed. F. Schmidt. No. 1,047,307; Dec. 17; Gaz. vol. 185; p. 596.
Zither, violin, &c., bowing device. J. von Peichl. No. 1,034,293; July 30; Gaz. vol. 180; p. 1328.

ALPHABETICAL LIST OF DESIGNS.

Abdominal band. L. Street. No. 42,195; Feb. 20; Gaz. vol. 175; p. 824.
Advertising-cabinet. W. F. Bogart and F. K. Hottal. No. 42,726; July 9; Gaz. vol. 180; p. 569.
Advertising or sign structure. J. L. Dawes. No. 43,353; Dec. 24; Gaz. vol. 185; p. 1025.
Advertising-tablet. C. F. Hilden. No. 43,045; Sept. 24; Gaz. vol. 182; p. 943.
Air-brush frame. T. A. De Vilbiss. No. 42,272; Mar. 12; Gaz. vol. 176; p. 498.
Andiron. G. Stickley. No. 42,653; June 18; Gaz. vol. 179; p. 831.
Anesthetic-administering apparatus, Frame or stand for. A. C. Clark. No. 43,188; Oct. 29; Gaz. vol. 183; p. 1281.
Apron. S. C. Salzenstein. No. 42,566; May 28; Gaz. vol. 178; p. 1129.
Aquarium. F. A. Ronneburg. No. 43,062; Sept. 24; Gaz. vol. 182; p. 947.
Ash-tray. L. Albino. No. 43,025; Sept. 17; Gaz. vol. 182; p. 710.
Automobile-body. O. P. Fritchle. No. 42,073; Jan. 2; Gaz. vol. 174; p. 270.
Automobile-body. G. W. Dunham. No. 42,732; July 9; Gaz. vol. 180; p. 570.
Automobile-body. O. P. Fritchle. No. 42,738; July 9; Gaz. vol. 180; p. 571.
Automobile-body. C. F. Huffman. No. 43,046; Sept. 24; Gaz. vol. 182; p. 943.
Automobile-body. A. P. Brush. No. 43,135; Oct. 15; Gaz. vol. 183; p. 759.
Automobile bow-rest. J. Erret. No. 42,276; Mar. 12; Gaz. vol. 176; p. 499.
Automobile-bumper. J. H. Sager. No. 42,149; Feb. 6; Gaz. vol. 175; p. 242.
Automobile headlight-body. H. M. Dawley. No. 42,794; July 16; Gaz. vol. 180; p. 854.
Automobile-hood. F. Porsche. No. 43,015; Sept. 10; Gaz. vol. 182; p. 489.
Automobile-horn. E. Rubes. No. 42,091; Jan. 9; Gaz. vol. 174; p. 572.
Automobile-horn. S. Calautti. No. 42,183; Feb. 20; Gaz. vol. 175; p. 822.
Automobile-horn. W. W. Dean. No. 42,559; May 28; Gaz. vol. 178; p. 1127.
Automobile-horn. E. Aufiero. No. 42,928; Aug. 27; Gaz. vol. 181; p. 1049.
Automobile-horn. R. H. Manson. Nos. 42,971–2; Sept. 3; Gaz. vol. 182; p. 225.
Automobile-horn. G. V. P. Lansing. No. 43,081; Oct. 1; Gaz. vol. 183; p. 203.
Automobile-horn. A. A. Kent. No. 43,177; Oct. 22; Gaz. vol. 183; p. 1012.
Automobile-horn. G. V. P. Lansing. No. 43,195; Oct. 29; Gaz. vol. 183; p. 1282.
Automobile-horn. G. V. P. Lansing. No. 43,222; Nov. 5; Gaz. vol. 184; p. 264.
Automobile running-board. W. Cairns. No. 42,124; Feb. 6; Gaz. vol. 175; p. 238.
Automobile running-board. G. W. Morse. No. 42,145; Feb. 6; Gaz. vol. 175; p. 242.
Automobile-signal. E. Aufiero. No. 43,213; Nov. 5; Gaz. vol. 184; p. 262.
Automobile-top. C. W. Link. Nos. 42,330–1; Mar. 19; Gaz. vol. 176; pp. 728–9.
Axle housing for vehicles, Front-. W. H. Douglas. No. 42,317; Mar. 19; Gaz. vol. 176; p. 726.
Axle, Vehicle-. F. H. Trego. No. 42,406; Apr. 9; Gaz. vol. 177; p. 503.
Badge. A. C. Turner. No. 42,116; Jan. 23; Gaz. vol. 174; p. 1009.
Badge. R. H. Brandon. No. 42,267; Mar. 12; Gaz. vol. 176; p. 497.
Badge. M. F. Slattery. No. 42,651; June 18; Gaz. vol. 179; p. 831.
Badge. W. L. Trueblood. No. 42,680; June 25; Gaz. vol. 179; p. 1083.
Badge. A. H. Van Deusen. No. 42,986; Sept. 3; Gaz. vol. 182; p. 227.
Badge. L. B. Sorensen. No. 43,167; Oct. 15; Gaz. vol. 183; p. 764.
Badge. L. B. Sorensen. No. 43,207; Oct. 29; Gaz. vol. 183; p. 1285.
Badge. W. E. MacDougall. No. 43,340; Dec. 10; Gaz. vol. 185; p. 508.
Badge, Campaign-. F. M. Sauber. No. 43,370; Dec. 24; Gaz. vol. 185; p. 1029.
Badge, charm, or similar article. G. W. Ball. No. 43,175; Oct. 22; Gaz. vol. 183; p. 1011.
Badge, emblem, or similar article. W. P. Woods. No. 42,383; Apr. 2; Gaz. vol. 177; p. 221.
Badge, emblem, or similar article. R. C. Baird. No. 43,100; Oct. 8; Gaz. vol. 183; p. 480.
Badge, emblem, or similar article. G. W. Graves. No. 43,359; Dec. 24; Gaz. vol. 185; p. 1027.
Badge or button. H. J. Juergens. No. 42,085; Jan. 9; Gaz. vol. 174; p. 570.
Badge or emblem. M. M. Leichter. No. 43,052; Sept. 24; Gaz. vol. 182; p. 944.
Badge or emblem. G. E. Nerney. Nos. 43,227–9; Nov. 5; Gaz. vol. 184; p. 265.
Bait for traps, Artificial. S. S. Pingree. No. 43,410; Dec. 31; Gaz. vol. 185; p. 1358.
Ball scorer, Base-. M. L. Kaufmann. No. 42,361; Mar. 26; Gaz. vol. 176; p. 1048.
Banner. A. B. Van Riper. No. 43,170; Oct. 15; Gaz. vol. 183; p. 765.
Barrette. W. H. Lane and J. P. Ledger. No. 42,086; Jan. 9; Gaz. vol. 174; p. 570.
Barrette. F. Spill. No. 42,527; May 14; Gaz. vol. 178; p. 571.
Basket. G. A. Barthel. No. 43,101; Oct. 8; Gaz. vol. 183; p. 480.
Bath-room fixture. E. A. Farr. No. 42,459; May 7; Gaz. vol. 178; p. 294.
Bedspread. G. E. Lackey. No. 43,050; Sept. 24; Gaz. vol. 182; p. 944.
Bezel. A. J. Neerken. No. 42,698; July 2; Gaz. vol. 180; p. 294.
Bib. T. M. Savill. No. 42,649; June 18; Gaz. vol. 179; p. 830.
Bicycle-frame. W. F. Kendt. No. 42,605; June 11; Gaz. vol. 179; p. 551.
Bicycle-frame. E. J. Lonn. No. 43,083; Oct. 1; Gaz. vol. 183; p. 203.
Binnacle. W. Rountree. No. 43,084; Oct. 1; Gaz. vol. 183; p. 203.
Bird-cage. H. O. Lindemann. No. 42,945; Aug. 27; Gaz. vol. 181; p. 1052.
Bird-cage. G. C. Hoefler. No. 43,280; Nov. 26; Gaz. vol. 184; p. 1056.
Block side. F. B. Mallory. No. 42,487; May 7; Gaz. vol. 178; p. 299.
Bonnet. M. B. Drullard. No. 42,913; Aug. 20; Gaz. vol. 181; p. 799.
Boot. J. P. Grosvenor. No. 42,322; Mar. 19; Gaz. vol. 176; p. 727.
Bottle. F. F. Ingram. No. 42,287; Mar. 12; Gaz. vol. 176; p. 501.
Bottle. G. B. Beiderhase. No. 42,431; Apr. 30; Gaz. vol. 177; p. 1272.
Bottle. G. R. West. No. 43,173; Oct. 15; Gaz. vol. 183; p. 766.
Bottle, Liqueur-. C. H. Thiel. No. 43,248; Nov. 12; Gaz. vol. 184; p. 529.
Bottle-opener. J. L. Sommer. Nos. 42,305–6; Mar. 12; Gaz. vol. 176; p. 504.
Bottle-opener and button-hook, Combination. E. F. Reichmuth. No. 42,611; June 11; Gaz. vol. 179; p. 552.
Bottle opener and pick, Combined. T. Harding. No. 43,278; Nov. 26; Gaz. vol. 184; p. 1055.
Bottle-opener, Pocket. H. L. Vaughan. No. 42,445; Apr. 30; Gaz. vol. 177; p. 1274.
Bottle or similar receptacle. E. Palmer. No. 42,516; May 14; Gaz. vol. 178; p. 569.
Bottle, Poison-. W. J. H. Booher. No. 42,831; July 23; Gaz. vol. 180; p. 1122.
Bottle, Poison-. G. H. Parslow. No. 43,179; Oct. 22; Gaz. vol. 183; p. 1012.
Bottle, Water-. A. E. Lovatt. No. 42,841; July 30; Gaz. vol. 180; p. 1375.
Bow-clasp. H. F. Juergens. No. 43,245; Nov. 12; Gaz. vol. 184; p. 529.
Bowl, Shade-. J. H. Strong. No. 42,718; July 2; Gaz. vol. 180; p. 297.
Box. E. F. Caldwell. No. 42,251; Mar. 5; Gaz. vol. 176; p. 251.
Box-strip. R. Gair. No. 42,258; Mar. 5; Gaz. vol. 176; p. 252.
Boxes or books, Covering for. I. O. Van Duzer. No. 42,410; Apr. 16; Gaz. vol. 177; p. 750.
Bracelet. H. C. Bliss. No. 42,412; Apr. 23; Gaz. vol. 177; p. 1018.
Bracelet. S. O. Bigney. No. 42,532; May 21; Gaz. vol. 178; p. 858.
Bracelet. F. V. Kennon. Nos. 42,760–1; July 9; Gaz. vol. 180; p. 574.
Bracket. J. G. Turnbull. No. 42,382; Apr. 2; Gaz. vol. 177; p. 221.
Bracket, Holder-. J. P. Eustis. Nos. 42,197–8; Feb. 27; Gaz. vol. 175; p. 1068.

Alphabetical list of designs—Continued.

Braid or trimming. R. H. Averns. Nos. 42,429–30; Apr. 30; Gaz. vol. 177; pp. 1271–2.
Braid ornament. F. J. Vieweg. Nos. 42,827–8; July 23; Gaz. vol. 180; p. 1122.
Braid, Round. S. W. Wardwell. No. 43,024; Sept. 10; Gaz. vol. 182; p. 491.
Bread-board. T. Bardezbanian. No. 42,117; Jan. 30; Gaz. vol. 174; p. 1196.
Breastpin. L. Spirup. No. 42,250; Feb. 27; Gaz. vol. 175; p. 1078.
Bridle-check. F. C. Monier. No. 42,366; Mar. 26; Gaz. vol. 176; p. 1049.
Brooch. J. C. Derby. No. 43,243; Nov. 12; Gaz. vol. 184; p. 529.
Broom-holder. F. Carlsson. No. 42,833; July 30; Gaz. vol. 180; p. 1373.
Brush. J. G. Mackenzie. No. 42,437; Apr. 30; Gaz. vol. 177; p. 1273.
Brush. R. A. White. No. 43,174; Oct. 15; Gaz. vol. 183; p. 766.
Brush, Air-. J. Webster. No. 42,597; June 4; Gaz. vol. 179; p. 266.
Brush-handle. D. H. Watts. No. 43,250; Nov. 12; Gaz. vol. 184; p. 530.
Brush, Military hair-. J. H. Scheuer. No. 42,954; Aug. 27; Gaz. vol. 181; p. 1053.
Brush, Military hair-. J. H. Scheuer. Nos. 43,180–1; Oct. 22; Gaz. vol. 183; pp. 1012–13.
Brush, Rubber. O. Eick. No. 42,390; Apr. 9; Gaz. vol. 177; p. 500.
Brush, Shaving-. C. E. Thompson. No. 42,120; Jan. 30; Gaz. vol. 174; p. 1196.
Brush, Toilet-. J. H. Scheuer. No. 43,182; Oct. 22; Gaz. vol. 183; p. 1013.
Brushes, mirrors, or similar articles, Back for. W. H. Saart. No. 43,021; Sept. 10; Gaz. vol. 182; p. 491.
Brushes or similar articles, Back of. T. Bender. No. 42,909; Aug. 20; Gaz. vol. 181; p. 798.
Buckle, Automobile top-strap. R. Miller. No. 43,225; Nov. 5; Gaz. vol. 184; p. 265.
Button. A. B. T. Moore. No. 43,009; Sept. 10; Gaz. vol. 182; p. 488.
Button-hook or similar article, Handle of a. T. Bender. No. 43,031; Sept. 24; Gaz. vol. 182; p. 940.
Button or similar article. R. Liebmann. Nos. 42,362–3; Mar. 26; Gaz. vol. 176; p. 1048.
Button, Top-cord. H. C. Weber. No. 42,830; July 23; Gaz. vol. 180; p. 1122.
Cabinet. J. J. Steslicki. No. 42,717; July 2; Gaz. vol. 180; p. 297.
Cabinet. T. A. Edison. No. 42,934; Aug. 27; Gaz. vol. 181; p. 1050.
Cabinet. J. Rubino. Nos. 43,160–3; Oct. 15; Gaz. vol. 183; pp. 763–4.
Cabinet, Dinner-set. E. M. Lunt. Nos. 42,187–8; Feb. 20; Gaz. vol. 175; p. 823.
Cabinet, Toilet-. C. J. Washman. No. 43,172; Oct. 15; Gaz. vol. 183; p. 765.
Cabinet, Towel-. J. Rousso. No. 42,398; Apr. 9; Gaz. vol. 177; p. 502.
Can or container. W. I. Tuttle. No. 43,239; Nov. 5; Gaz. vol. 184; p. 267.
Can or container. C. Weise. No. 43,259; Nov. 19; Gaz. vol. 184; p. 785.
Can or container. M. V. Tessier. Nos. 43,290–1; Nov. 26; Gaz. vol. 184; p. 1057.
Can-top. F. S. Hyatt. Nos. 43,252–3; Nov. 19; Gaz. vol. 184; p. 784.
Candelabrum. W. L. and F. Wagner. No. 42,843; July 30; Gaz. vol. 180; p. 1375.
Candelabrum. S. H. Leavenworth. No. 42,852; Aug. 6; Gaz. vol. 181; p. 247.
Candelabrum. L. Schepmoes. No. 43,111; Oct. 8; Gaz. vol. 183; p. 482.
Candlestick. A. J. Sanford. No. 43,236; Nov. 5; Gaz. vol. 184; p. 266.
Candy bar. R. C. Boeckel. No. 42,162; Feb. 13; Gaz. vol. 175; p. 519.
Cane and umbrella handle. O. Patrick. No. 43,409; Dec. 31; Gaz. vol. 185; p. 1358.
Canopy. L. W. Andersen. No. 43,131; Oct. 15; Gaz. vol. 183; p. 758.
Cap. W. H. Kilbourn. No. 43,048; Sept. 24; Gaz. vol. 182; p. 944.
Car body, Railway-. W. P. Bettendorf. No. 43,078; Oct. 1; Gaz. vol. 183; p. 202.
Car-seat support. R. B. Liddell. No. 42,419; Apr. 23; Gaz. vol. 177; p. 1019.
Carafe. G. P. Altenberg. No. 42,617; June 18; Gaz. vol. 179; p. 825.
Carbon-holder. J. J. Jones. No. 42,360; Mar. 26; Gaz. vol. 176; p. 1048.
Carbonators, Mixing-tank for. H. M. Smith. No. 42,547; May 21; Gaz. vol. 178; p. 861.
Card-back. S. H. Paxton. No. 42,876; Aug. 13; Gaz. vol. 181; p. 515.
Card-holder. C. U. Carpenter. No. 42,992; Sept. 10; Gaz. vol. 182; p. 484.
Card, Score-. W. L. Deming. No. 43,402; Dec. 31; Gaz. vol. 185; p. 1357.
Cards, Pack of playing-. S. M. Rouse. No. 42,237; Feb. 27; Gaz. vol. 175; p. 1075.
Carpet. W. A. Elliot. No. 42,125; Feb. 6; Gaz. vol. 175; p. 238.
Carpet. J. Merry. No. 42,141; Feb. 6; Gaz. vol. 175; p. 241.
Carpet. J. B. Moffat. No. 42,142; Feb. 6; Gaz. vol. 175; p. 241.
Carpet. R. F. Riddell. No. 42,148; Feb. 6; Gaz. vol. 175; p. 242.
Carpet. J. Spring. No. 42,153; Feb. 6; Gaz. vol. 175; p. 243.
Carpet. J. Wishart. Nos. 42,159–60; Feb. 6; Gaz. vol. 175; p. 244.
Carpet. W. A. Elliot. Nos. 42,274–5; Mar. 12; Gaz. vol. 176; p. 499.
Carpet. M. R. Loudon. No. 42,289; Mar. 12; Gaz. vol. 176; p. 501.
Carpet. J. B. Moffat. No. 42,293; Mar. 12; Gaz. vol. 176; p. 502.
Carpet. E. G. Sauer. Nos. 42,300–3; Mar. 12; Gaz. vol. 176; p. 503.
Carpet. J. Spring. Nos. 42,307–8; Mar. 12; Gaz. vol. 176; p. 504.
Carpet. E. W. Trik. Nos. 42,311–13; Mar. 12; Gaz. vol. 176; p. 505.
Carpet. M. R. Loudon. No. 42,539; May 21; Gaz. vol. 178; p. 859.
Carpet. J. Merry. No. 42,541; May 21; Gaz. vol. 178; p. 860.
Carpet. J. B. Moffat. No. 42,542; May 21; Gaz. vol. 178; p. 860.
Carpet. E. G. Sauer. Nos. 42,545–6; May 21; Gaz. vol. 178; p. 860.
Carpet. J. Spring. Nos. 42,548–51; May 21; Gaz. vol. 178; p. 861.
Carpet. E. W. Trik. No. 42,554; May 21; Gaz. vol. 178; p. 862.
Carpet. J. Wishart. No. 42,557; May 21; Gaz. vol. 178; p. 862.
Carpet. W. A. Elliot. Nos. 42,560–2; May 28; Gaz. vol. 178; pp. 1127–8.
Carpet. J. Merry. Nos. 42,693–5; July 2; Gaz. vol. 180; p. 293.
Carpet. W. A. Elliot. No. 42,868; Aug. 13; Gaz. vol. 181; p. 513.
Carpet. W. A. Elliot. No. 42,870; Aug. 13; Gaz. vol. 181; p. 514.
Carpet. W. A. Elliott. No. 43,035; Sept. 24; Gaz. vol. 182; p. 941.
Carpet. J. Merry. No. 43,361; Dec. 24; Gaz. vol. 185; p. 1027.
Carpet. J. B. Moffat. No. 43,362; Dec. 24; Gaz. vol. 185; p. 1027.
Carpet or rug. W. E. Sayers. No. 42,239; Feb. 27; Gaz. vol. 175; p. 1076.
Carpet or rug. W. E. Sayers. No. 42,774; July 9; Gaz. vol. 180; p. 577.
Carpet or rug. J. G. Pegel. No. 42,877; Aug. 13; Gaz. vol. 181; p. 516.
Carpet or rug. W. E. Sayers. Nos. 42,893–6; Aug. 13; Gaz. vol. 181; pp. 519–20.
Carpet or rug. J. G. Pegel. No. 43,365; Dec. 24; Gaz. vol. 185; p. 1028.
Carpet sweeper and cleaner casing. F. M. Case. No. 42,415; Apr. 23; Gaz. vol. 177; p. 1019.
Carton. R. Crosett. No. 43,190; Oct. 29; Gaz. vol. 183; p. 1281.
Carving-set handle. E. Schwarz. No. 43,381; Dec. 24; Gaz. vol. 185; p. 1031.
Casket. G. B. Lewis. No. 42,767; July 9; Gaz. vol. 180; p. 575.
Casket handle, Burial-. C. Blesch. Nos. 42,520–1; May 14; Gaz. vol. 178; p. 570.
Casket handle, Burial-. C. Blesch. No. 43,264; Nov. 26; Gaz. vol. 184; p. 1052.
Casket handle-plate, Burial-. C. Blesch. No. 43,186; Oct. 29; Gaz. vol. 183; p. 1281.
Casket-lid lining, Burial-. J. F. Orr. No. 42,948; Aug. 27; Gaz. vol. 181; p. 1052.
Casket name-plate, Burial-. N. L. Barmore. No. 42,079; Jan. 9; Gaz. vol. 174; p. 569.
Casket-trimming. W. E. Stevens. No. 42,093; Jan. 9; Gaz. vol. 174; p. 572.
Casket-trimming. A. V. Eginton. No. 43,337; Dec. 10; Gaz. vol. 185; p. 507.
Ceiling and shower plate. L. W. Andersen. No. 43,211; Nov. 5; Gaz. vol. 184; p. 262.
Centrifugal-separator frame. B. and E. Starch. No. 42,309; Mar. 12; Gaz. vol. 176; p. 504.
Certificate, Official. J. B. Goodwin. No. 42,128; Feb. 6; Gaz. vol. 175; p. 239.
Chafing-dish. A. H. S. Swan. Nos. 42,341–2; Mar. 19; Gaz. vol. 176; p. 731.
Chafing-dish. E. A. Farr. No. 42,563; May 28; Gaz. vol. 178; p. 1128.
Chafing-dish and stand. C. M. Prior and C. Nelson. No. 43,060; Sept. 24; Gaz. vol. 182; p. 946.
Chafing-dish handle. E. A. Farr. No. 42,502; May 14; Gaz. vol. 178; p. 566.

Alphabetical list of designs—Continued.

Chafing-dish stand. E. A. Farr. No. 42,277; Mar. 12; Gaz. vol. 176; p. 499.
Chain. H. E. Hayward. No. 42,436; Apr. 30; Gaz. vol. 177; p. 1273.
Chain, Expansible. M. L. Robbins. Nos. 43,234–5; Nov. 5; Gaz. vol. 184; p. 266.
Chair. L. W. Newton. No. 42,089; Jan. 9; Gaz. vol. 174; p. 571.
Chair. G. W. Collins. No. 42,618; June 18; Gaz. vol. 179; p. 825.
Chair. W. M. McLean. No. 42,641; June 18; Gaz. vol. 179; p. 829.
Chair. K. R. Dunton. Nos. 42,932–3; Aug. 27; Gaz. vol. 181; p. 1049.
Chair-arm. J., A., and J. P. Barker. No. 42,092; Jan. 16; Gaz. vol. 174; p. 813.
Chair-arm. G. E. Mitchell. No. 43,152; Oct. 15; Gaz. vol. 183; p. 762.
Chair, Motor-. H. W. Andrews. No. 43,077; Oct. 1; Gaz. vol. 183; p. 202.
Chair, Wicker or rustic. M. Fedorina. No. 42,524; May 14; Gaz. vol. 178; p. 571.
Chair, Wire. C. J. Travers. No. 42,529; May 14; Gaz. vol. 178; p. 572.
Charm. B. E. Loeper. No. 42,768; July 9; Gaz. vol. 180; p. 576.
Charm or similar article. P. Leone. No. 42,485; May 7; Gaz. vol. 178; p. 298.
Check, Bank-. P. E. Hass. No. 42,750; July 9; Gaz. vol. 180; p. 572.
Christmas stocking. H. M. Allen. No. 42,346; Mar. 26; Gaz. vol. 176; p. 1045.
Churns, Frame for the operating mechanism of. B. M. Griffith and W. T. McCullough. No. 43,275; Nov. 26; Gaz. vol. 184; p. 1055.
Cigar and cigarette holder. H. O. Shunk. No. 42,092; Jan. 9; Gaz. vol. 174; p. 572.
Cigar-ash holder. B. R. Halderman. No. 42,603; June 11; Gaz. vol. 179; p. 550.
Cigar-band. E. Steffens, Jr., and H. A. Jones. Nos. 42,777–88; July 9; Gaz. vol. 180; pp. 577–8.
Cigar-band. H. A. Jones. Nos. 43,281–4; Nov. 26; Gaz. vol. 184; p. 1056.
Cigar-band. E. Steffens, Jr., and H. A. Jones. Nos. 43,388–90; Dec. 24; Gaz. vol. 185; pp. 1032–3.
Cigar-holder and ash-receiver. O. Partenheimer. No. 42,858; Aug. 6; Gaz. vol. 181; p. 248.
Cigar-lighter. A. C. Heath. No. 42,462; May 7; Gaz. vol. 178; p. 294.
Cigar or similar article. J. K. Broderick. No. 42,414; Apr. 23; Gaz. vol. 177; p. 1018.
Cigar-protector. G. S. Mahn. Nos. 43,150–1; Oct. 15; Gaz. vol. 183; pp. 761–2.
Circuit-controller inclosure. R. H. Manson. No. 43,199; Oct. 29; Gaz. vol. 183; p. 1283.
Clasp. H. P. Stewart. No. 42,114; Jan. 23; Gaz. vol. 174; p. 1008.
Cleaner casing, Pneumatic-. J. B. Kirby. No. 43,147; Oct. 15; Gaz. vol. 183; p. 761.
Clock-case. E. E. Stockton. No. 42,444; Apr. 30; Gaz. vol. 177; p. 1274.
Clock-case. A. Wright. No. 42,558; May 21; Gaz. vol. 178; p. 862.
Clock-case. E. M. Jones. No. 42,758; July 9; Gaz. vol. 180; p. 573.
Clock-case. E. M. Walker. No. 43,331; Dec. 3; Gaz. vol. 185; p. 228.
Clock case, Mantel-. J. F. Whitman. No. 42,448; Apr. 30; Gaz. vol. 177; p. 1275.
Clock-casing. J. F. Whitman. No. 42,556; May 21; Gaz. vol. 178; p. 862.
Clocks, Ring-head for alarm-. E. E. Stockton. No. 42,983; Sept. 3; Gaz. vol. 182; p. 227.
Closet-bowl. H. T. Cronk. No. 43,269; Nov. 26; Gaz. vol. 184; p. 1053.
Coffee, cream, and sugar set. J. B. Rice. No. 42,950; Aug. 27; Gaz. vol. 181; p. 1052.
Coin-delivering-machine casing. E. J. Brandt. No. 43,134; Oct. 15; Gaz. vol. 183; p. 759.
Coin-handling machine casing. T. Bilyeu. No. 43,401; Dec. 31; Gaz. vol. 185; p. 1357.
Coin-holder. B. M. Davis. No. 42,535; May 21; Gaz. vol. 178; p. 859.
Coin-holder and vinaigrette. S. O. Bigney. No. 42,182; Feb. 20; Gaz. vol. 175; p. 822.
Collar-fastener. E. L. Anderson. No. 43,333; Dec. 10; Gaz. vol. 185; p. 506.
Comb-cleaner. M. A. Gensler. No. 42,964; Sept. 3; Gaz. vol. 182; p. 223.
Comb or similar article. T. Bender. No. 42,907; Aug. 20; Gaz. vol. 181; p. 797.
Combs, Ornamental stock for. J. Summer. No. 42,956; Aug. 27; Gaz. vol. 181; p. 1053.
Condiment-holder. G. B. Clemmer. No. 43,189; Oct. 29; Gaz. vol. 183; p. 1281.
Condiment-shaker. C. A. Conger. No. 42,271; Mar. 12; Gaz. vol. 176; p. 498.
Confessional, Portable. F. W. Hoppmann. No. 43,176; Oct. 22; Gaz. vol. 183; p. 1012.
Contact-makers, Cap for. A. A. Kent. No. 42,666; June 25; Gaz. vol. 179; p. 1080.
Coop, Poultry-. S. W. Hamilton. No. 43,277; Nov. 26; Gaz. vol. 184; p. 1055.
Corn-fork. K. V. Waterhouse. No. 43,345; Dec. 10; Gaz. vol. 185; p. 508.
Cornet. F. A. Reynolds. No. 43,205; Oct. 29; Gaz. vol. 183; p. 1284.
Cornet. W. J. Gronert. No. 43,276; Nov. 26; Gaz. vol. 184; p. 1055.
Cornet-tube. A. J. Johnson. No. 42,919; Aug. 20; Gaz. vol. 181; p. 800.
Counter. J. J. Curran. No. 42,686; July 2; Gaz. vol. 180; p. 292.
Crape, Printed. K. Teen. No. 42,826; July 23; Gaz. vol. 180; p. 1122.
Cribbage-board. L. M. Stake. No. 42,595; June 4; Gaz. vol. 179; p. 266.
Cruet. A. J. Sanford. No. 42,594; June 4; Gaz. vol. 179; p. 265.
Crumb-scraper. L. Strassburger and C. Nelson. Nos. 43,123–5; Oct. 8; Gaz. vol. 183; p. 485.
Cue-rack. H. F. Davenport. No. 42,353; Mar. 26; Gaz. vol. 176; p. 1047.
Cup, Drinking-. S. Horvath. No. 42,326; Mar. 19; Gaz. vol. 176; p. 728.
Curtain-fixture. M. M. Kerr. No. 42,689; July 2; Gaz. vol. 180; p. 292.
Curtain-hanger. F. J. McKenna. No. 42,640; June 18; Gaz. vol. 179; p. 829.
Curtain, Lace. A. Becker. Nos. 42,599–600; June 11; Gaz. vol. 179; p. 550.
Cycle frame, Motor-. R. L. Bailey. No. 43,262; Nov. 26; Gaz. vol. 184; p. 1052.
Cycle pedal-frame. G. I. Francis. No. 42,170; Feb. 13; Gaz. vol. 175; p. 520.
Cycle rear seat, Motor-. F. M. Stoll. No. 43,238; Nov. 5; Gaz. vol. 184; p. 267.
Desk. K. R. Dunton. No. 42,388; Apr. 9; Gaz. vol. 177; p. 500.
Die-holder. O. St. Marie. No. 42,922; Aug. 20; Gaz. vol. 181; p. 800.
Directory. J. S. Taylor. No. 42,596; June 4; Gaz. vol. 179; p. 266.
Dish. A. J. Sanford. No. 42,110; Jan. 23; Gaz. vol. 174; p. 1008.
Dish. E. A. Farr. No. 42,200; Feb. 27; Gaz. vol. 175; p. 1069.
Dish. J. C. Underwood. No. 42,615; June 11; Gaz. vol. 179; p. 552.
Dish. A. J. Sanford. No. 42,711; July 2; Gaz. vol. 180; p. 296.
Dish, Asparagus-. E. W. Andersen. No. 42,682; July 2; Gaz. vol. 180; p. 291.
Dish or similar article, Covered. C. E. Ziegler. No. 43,130; Oct. 8; Gaz. vol. 183; p. 486.
Dishes, bowls, or similar articles of tableware, Handle for. C. E. Haviland. No. 42,392; Apr. 9; Gaz. vol. 177; p. 500.
Display-board. W. E. Trautwein. No. 42,426; Apr. 23; Gaz. vol. 177; p. 1021.
Display bracket, Hose-. J. A. Engel. No. 42,914; Aug. 20; Gaz. vol. 181; p. 799.
Display-case. J. Harden, Jr. No. 42,461; May 7; Gaz. vol. 178; p. 294.
Display casing, Number-. A. Munroe and F. F. Fink. No. 42,109; Jan. 23; Gaz. vol. 174; p. 1008.
Display casing, Number-. S. Gee. No. 42,839; July 30; Gaz. vol. 180; p. 1374.
Display device. G. R. Farrell. No. 42,846; Aug. 6; Gaz. vol. 181; p. 245.
Display rack, Merchandise-. S. M. Winkler. No. 42,427; Apr. 23; Gaz. vol. 177; p. 1021.
Display-stand. O. Moberg. No. 42,525; May 14; Gaz. vol. 178; p. 571.
Display-stand. O. Moberg. No. 42,644; June 18; Gaz. vol. 179; p. 830.
Display-stand. O. Moberg. No. 42,769; July 9; Gaz. vol. 180; p. 576.
Display-stand. I. E. Hotchkiss. No. 42,804; July 16; Gaz. vol. 180; p. 856.
Display-stand. G. Walker. No. 43,171; Oct. 15; Gaz. vol. 183; p. 765.
Display-stand for exhibiting wood-finishes of doors, &c. A. W. Wermerskirchen. No. 42,844; July 30; Gaz. vol. 180; p. 1375.
Display-stand for jewelry. J. C. Wacha. Nos. 42,655–6; June 18; Gaz. vol. 179; p. 831.
Display-stand for merchandise. F. Yesbera and J. Jameson. No. 42,180; Feb. 13; Gaz. vol. 175; p. 523.
Display stand, Merchandise-. S. Buyer. No. 42,684; July 2; Gaz. vol. 180; p. 292.
Doily. R. Gair. Nos. 42,254–7; Mar. 5; Gaz. vol. 176; pp. 251–2.
Doily. R. Gair. No. 42,915; Aug. 20; Gaz. vol. 181; p. 799.
Doll. E. I. Horsman, Jr. Nos. 42,324–5; Mar. 19; Gaz. vol. 176; pp. 727–8.
Doll. E. M. Miner. No. 43,202; Oct. 29; Gaz. vol. 183; p. 1284.
Doll-face. L. Rees. No. 42,881; Aug. 13; Gaz. vol. 181; p. 516.

Alphabetical list of designs—Continued.

Doll-head. L. Rees. No. 43,159; Oct. 15; Gaz. vol. 183; p. 763.
Dome-holder. L. W. Andersen. No. 43,132; Oct. 15; Gaz. vol. 183; p. 758.
Door-mat, Metal. J. J. Ennis and W. T. Hohnhorst. No. 42,380; Apr. 2; Gaz. vol. 177; p. 221.
Drapery, Window-. L. Windsor. No. 43,398; Dec. 24; Gaz. vol. 185; p. 1034.
Drinking-fountain. P. J. Madden. No. 42,364; Mar. 26; Gaz. vol. 176; p. 1048.
Drinking-glass or similar article. T. Mortenson. No. 42,367; Mar. 26; Gaz. vol. 176; p. 1049.
Drinking-receptacles, Germ-exterminator for. L. G. Peters and M. D. Brown. No. 42,297; Mar. 12; Gaz. vol. 176; p. 502.
Drinking vessel. A. B. Gunthel. No. 42,994; Sept. 10; Gaz. vol. 182; p. 485.
Drinking vessel, &c. J. J. Heedy. No. 42,850; Aug. 6; Gaz. vol. 181; p. 246.
Drinking vessel or similar article. M. H. Sloan. No. 42,113; Jan. 23; Gaz. vol. 174; p. 1008.
Drinking vessel or similar article. E. M. Bottome. Nos. 42,348–9; Mar. 26; Gaz. vol. 176; p. 1046.
Drinking vessel or similar article. E. M. Bottome and H. A. Marshall. No. 42,350; Mar. 26; Gaz. vol. 176; p. 1046.
Drinking vessel or similar article. P. Ebeling. No. 42,356; Mar. 26; Gaz. vol. 176; p. 1047.
Dynamo and regulator casing. W. Gray. No. 43,036; Sept. 24; Gaz. vol. 182; p. 941.
Earpiece, Acoustic. H. G. Pape. No. 42,295; Mar. 12; Gaz. vol. 176; p. 502.
Egg-cup. M. Johnsen. No. 42,084; Jan. 9; Gaz. vol. 174; p. 570.
Electric-light fixtures, Canopy for. A. J. Morgan. No. 42,583; June 4; Gaz. vol. 179; p. 264.
Electric switchboard. W. J. Bell. No. 43,026; Sept. 17; Gaz. vol. 182; p. 710.
Electrically-driven machines, Stand for. H. W. Spellman. No. 42,442; Apr. 30; Gaz. vol. 177; p. 1274.
Electrode, Carbon. P. P. Nungesser. No. 42,947; Aug. 27; Gaz. vol. 181; p. 1052.
Electrolier, Street-. A. R. Blewett. No. 42,725; July 9; Gaz. vol. 180; p. 569.
Elevator-indicator. N. L. Schloss. No. 43,288; Nov. 26; Gaz. vol. 184; p. 1057.
Elevator-signal-light box. N. L. Schloss. No. 42,677; June 25; Gaz. vol. 179; p. 1082.
Emblem. H. W. Steiger. No. 42,495; May 7; Gaz. vol. 178; p. 300.
Emblem. A. Schilling. No. 42,926; Aug. 20; Gaz. vol. 181; p. 801.
Emblem. C. M. Chapman. No. 43,352; Dec. 24; Gaz. vol. 185; p. 1025.
Emblem, Fraternal. L. N. Brooker. No. 42,080; Jan. 9; Gaz. vol. 174; p. 569.
Embroidery foundation. J. M. Reis. Nos. 42,700–5; July 2; Gaz. vol. 180; pp. 294–5.
Engine casing, Gas-. H. N. Edens. No. 42,962; Sept. 3; Gaz. vol. 182; p. 223.
Engine frame, Gas-. L. J. Monahan. No. 42,696; July 2; Gaz. vol. 180; p. 294.
Engines, Manifold for internal-combustion. R. Huff. No. 42,581; June 4; Gaz. vol. 179; p. 263.
Engraver's block. A. Muehlmatt. No. 42,397; Apr. 9; Gaz. vol. 177; p. 502.
Engraver's block. M. M. Riglander. No. 43,233; Nov. 5; Gaz. vol. 184; p. 266.
Escutcheon-plate. H. G. Voight. Nos. 42,446–7; Apr. 30; Gaz. vol. 177; p. 1275.
Eyelet. W. Hughes. No. 42,100; Jan. 16; Gaz. vol. 174; p. 814.
Fabric. K. Bloodworth. No. 42,413; Apr. 23; Gaz. vol. 177; p. 1018.
Fabric. C. E. Gilbert. No. 42,416; Apr. 23; Gaz. vol. 177; p. 1019.
Fabric. I. C. Keyes. No. 42,418; Apr. 23; Gaz. vol. 177; p. 1019.
Fabric or wall-paper, Textile. G. Forestier. Nos. 42,201–3; Feb. 27; Gaz. vol. 175; p. 1069.
Fabric or wall-paper, Textile. E. Hoch. Nos. 42,205–10; Feb. 27; Gaz. vol. 175; pp. 1069–70.
Fabric or wall-paper, Textile. E. Kirchhoff. No. 42,213; Feb. 27; Gaz. vol. 175; p. 1071
Fabric or wall-paper, Textile. W. C. Korzinek. No. 42,214; Feb. 27; Gaz. vol. 175; p. 1071.
Fabric or wall-paper, Textile. E. Madeleine. Nos. 42,215–21; Feb. 27; Gaz. vol. 175; pp. 1071–2.
Fabric or wall-paper, Textile. E. Munier. Nos. 42,222–7; Feb. 27; Gaz. vol. 175; pp. 1072–3.
Fabric or wall-paper, Textile. L. F. Orcutt. Nos. 42,229–31; Feb. 27; Gaz. vol. 175; pp. 1073–4.
Fabric or wall-paper, Textile. M. Rothschild. Nos. 42,235–6; Feb. 27; Gaz. vol. 175; pp. 1074–5.
Fabric or wall-paper, Textile. F. J. Schaetzel. Nos. 42,240–9; Feb. 27; Gaz. vol. 175; pp. 1076–8.
Fabric or wall-paper, Textile. E. Hoch. No. 42,323; Mar. 19; Gaz. vol. 176; p. 727.
Fabric or wall-paper, Textile. E. Munier. No. 42,337; Mar. 19; Gaz. vol. 176; p. 730.
Fabric or wall-paper, Textile. W. C. Korzinek. No. 42,851; Aug. 6; Gaz. vol. 181; p. 246.
Fabric, Textile. E. M. Hacker. No. 42,138; Feb. 6; Gaz. vol. 175; p. 240.
Fabric, Textile. A. E. Goldthorpe. No. 42,739; July 9; Gaz. vol. 180; p. 571.
Fabric, Texile. J. J. Lambert. No. 42,872; Aug. 13; Gaz. vol. 181; p. 514.
Fabric, Textile. H. T. Loomis. No. 43,178; Oct. 22; Gaz. vol. 183; p. 1012.
Fabric, Textile. C. Kreger. No. 43,254; Nov. 19; Gaz. vol. 184; p. 784.
Fabric, Textile. K. Nonaka. No. 43,408; Dec. 31; Gaz. vol. 185; p. 1358.
Fan. W. B. Garrison. No. 42,623; June 18; Gaz. vol. 179; p. 826.
Faucet. F. H. Lippincott. No. 42,174; Feb. 13; Gaz. vol. 175; p. 521.
Fence. W. H. Sommer. No. 42,982; Sept. 3; Gaz. vol. 182; p. 227.
Fence or gate stay or picket. W. H. Sommer. No. 42,981; Sept. 3; Gaz. vol. 182; p. 227.
Fence, Wire. H. L. Brown. No. 42,433; Apr. 30; Gaz. vol. 177; p. 1272.
File handle, Document-. C. U. Carpenter. No. 42,991; Sept. 10; Gaz. vol. 182; p. 484.
Fireplace-front, Removable. G. Stickley. No. 42,789; July 9; Gaz. vol. 180; p. 578.
Fireplace-throat. S. S. Covert. No. 42,912; Aug. 20; Gaz. vol. 181; p. 798.
Flushing-tank for water-closets. J. F. Kelly. No. 42,328; Mar. 19; Gaz. vol. 176; p. 728.
Flying and gliding device. E. Ebbinghaus. No. 42,501; May 14; Gaz. vol. 178; p. 566.
Foot-rest for stools and the like. H. Reischmann. No. 42,773; July 9; Gaz. vol. 180; p. 577.
Fountain, Combined bubbling and draft. G. W. Nahuis. No. 43,010; Sept. 10; Gaz. vol. 182; p. 488.
Fringe. H. J. Müller. No. 42,857; Aug. 6; Gaz. vol. 181; p. 248.
Furniture leg, Store-. M. Taussig. No. 43,169; Oct. 15; Gaz. vol. 183; p. 765.
Game-board. W. H. Freemantle. No. 42,204; Feb. 27; Gaz. vol. 175; p. 1069.
Game-board. M. E. Moss. No. 42,924; Aug. 20; Gaz. vol. 181; p. 801.
Game-board. E. J. McMurtry. No. 43,054; Sept. 24; Gaz. vol. 182; p. 945.
Game-table. C. Hine and J. C. Schank. No. 42,463; May 7; Gaz. vol. 178; p. 294.
Game-table. C. Hine. Nos. 42,464–70; May 7; Gaz. vol. 178; pp. 294–5.
Garment-supporter. A. S. Adam. No. 43,030; Sept. 24; Gaz. vol. 182; p. 940.
Garter. R. J. Freeman. No. 43,105; Oct. 8; Gaz. vol. 183; p. 481.
Gas and electric-light fixtures, Ornamental shell for F. W. Gehrke. No. 43,141; Oct. 15; Gaz. vol. 183; p. 760.
Gas and electric-light fixtures, Shell for. F. W. Gehrke. No. 43,273; Nov. 26; Gaz. vol. 184; p. 1054.
Gas-burner. A. G. Sherman. No. 42,339; Mar. 19; Gaz. vol. 176; p. 730.
Gas-burner, Inverted A. Recker. No. 42,808; July 16; Gaz. vol. 180; p. 857.
Gas-burner, Inverted. L. B. London. No. 42,853; Aug. 6; Gaz. vol. 181; p. 247.
Gas-heater. J. Roy. No. 42,178; Feb. 13; Gaz. vol. 175; p. 522.
Gas or electric-light fixtures, Shell for. F. W. Gehrke. No. 42,963; Sept. 3; Gaz. vol. 182; p. 223.
Gear-casing. C. J. Allen. No. 43,399; Dec. 31; Gaz. vol. 185; p. 1357.
Gem-setting. H. Ackerman. No. 42,428; Apr. 30; Gaz. vol. 177; p. 1271.
Gem-setting. H. H. Meyers. No. 42,514; May 14; Gaz. vol. 178; p. 569.
Gem-setting. H. H. Meyers. No. 42,643; June 18; Gaz. vol. 179; p. 829.
Gem-setting. H. Ackerman. No. 42,810; July 23; Gaz. vol. 180; p. 1119.
Girdle for waist foundations. S. L. Brundidge. No. 42,196; Feb. 27; Gaz. vol. 175; p. 1068.
Glass articles, Foot for. R. Haley. No. 43,040; Sept. 24; Gaz. vol. 182; p. 942.
Glass articles, Neck and stopper for. R. Haley. No. 43,039; Sept. 24; Gaz. vol. 182; p. 942.
Glass dish. R. Haley. No. 43,041; Sept. 24; Gaz. vol. 182; p. 942.
Glass-holder. E. A. Strause. No. 42,425; Apr. 23; Gaz. vol. 177; p. 1020.
Glass holder, Inverted-. G. E. Curtiss. Nos. 42,533–4; May 21; Gaz. vol. 178; p. 858.
Glass or similar article. A. Gredelue. Nos. 42,357–8; Mar. 26; Gaz. vol. 176; p. 1047.
Glass or similar article, Sheet-. O. A. Mygatt. No. 42,422; Apr. 23; Gaz. vol. 177; p. 1020.
Glass, Plate-. E. F. Chance. No. 42,523; May 14; Gaz. vol. 178; p. 571.
Glass, Plate-. E. F. Chance. No. 43,187; Oct. 29; Gaz. vol. 183; p. 1281.

Alphabetical list of designs—Continued.

Glass, Sheet-. E. Brennecke. No. 42,727; July 9; Gaz. vol. 180; p. 569.
Glass, Sheet-. E. J. Walsh. No. 42,792; July 9; Gaz. vol. 180; p. 579.
Glass, Sheet-. E. J. Walsh. Nos. 42,904–5; Aug. 13; Gaz. vol. 181; p. 522.
Glass, Sheet-. F. Shuman. No. 43,349; Dec. 17; Gaz. vol. 185; p. 808.
Glass vessel. E. M. Bottome. No. 42,163; Feb. 13; Gaz. vol. 175; p. 519.
Glass vessel. A. J. Sanford. No. 42,260; Mar. 5; Gaz. vol. 176; p. 252.
Glass vessel. H. R. Luckock. No. 42,332; Mar. 19; Gaz. vol. 176; p. 729.
Glass vessel. H. R. Luckock and C. H. Taylor. Nos. 42,333–6; Mar. 19; Gaz. vol. 176; pp. 729–30.
Glass vessel. H. C. Heisey. Nos. 42,751–2; July 9; Gaz. vol. 180; p. 572.
Glass vessel. R. Haley. No. 43,042; Sept. 24; Gaz. vol. 182; p. 942.
Glass vessel, Cut-. A. Carlson. No. 43,267; Nov. 26; Gaz. vol. 184; p. 1053.
Glass vessel or similar article. F. Demer. No. 43,270; Nov. 26; Gaz. vol. 182; p. 1053.
Globe or shade. J. E. Miller. No. 42,107; Jan. 23; Gaz. vol. 174; p. 1007.
Globe or similar article. H. E. Watkins. No. 43,071; Sept. 24; Gaz. vol. 182; p. 948.
Globe or similar article. H. E. Watkins. No. 43,074; Sept. 24; Gaz. vol. 182; p. 948.
Globe or similar article. H. E. Watkins. Nos. 43,090–4; Oct. 1; Gaz. vol. 183; pp. 204–5.
Globe or similar article. H. E. Watkins. No. 43,098; Oct. 1; Gaz. vol. 183; p. 206.
Glove. E. F. Rogers. No. 42,708; July 2; Gaz. vol. 180; p. 295.
Go-cart-body top. M. B. Lloyd. No. 42,946; Aug. 27; Gaz. vol. 181; p. 1052.
Go-cart-frame arm-rest, Collapsible. M. B. Lloyd. No. 43,149; Oct. 15; Gaz. vol. 183; p. 761.
Go-carts, Collapsible front hood for. M. B. Lloyd. No. 43,148; Oct. 15; Gaz. vol. 183; p. 761.
Goblet. A. J. Sanford. No. 42,710; July 2; Gaz. vol. 180; p. 295.
Goblet. A. Pick. Nos. 43,056–9; Sept. 24; Gaz. vol. 182; pp. 945–6.
Goblet. A. Pick. No. 43,232; Nov. 5; Gaz. vol. 184; p. 266.
Goblet or similar article. A. B. Gunthal. Nos. 42,995–43,000; Sept. 10; Gaz. vol. 182; pp. 485–6.
Golf-ball. F. C. Breakspear. No. 42,164; Feb. 13; Gaz. vol. 175; p. 519.
Grass-hook. W. G. Stewart. No. 42,310; Mar. 12; Gaz. vol. 176; p. 505.
Grave-lining. J. M. and W. I. Doddridge. No. 42,097; Jan. 16; Gaz. vol. 174; p. 813.
Grave-marker. T. Laporte and D. Lebeuf. No. 43,223; Nov. 5; Gaz. vol. 184; p. 264.
Grease-cup. E. L. Cannon. No. 42,911; Aug. 20; Gaz. vol. 181; p. 798.
Hair ornament or bandeau. H. A. Austin. No. 42,929; Aug. 27; Gaz. vol. 181; p. 1049.
Hair-washing hood. O. B. Salisbury. No. 43,287; Nov. 26; Gaz. vol. 184; p. 1057.
Hand-bag. L. Potter. Nos. 42,369–72; Mar. 26; Gaz. vol. 176; pp. 1049–50.
Handkerchief. E. M. Miner. No. 43,201; Oct. 29; Gaz. vol. 183; p. 1283.
Handle. T. F. Curley. No. 43,136; Oct. 15; Gaz. vol. 183; p. 759.
Hanger for hand-bags or similar articles. K. B. Ford. No. 42,169; Feb. 13; Gaz. vol. 175; p. 520.
Harness-rack. F. E. Lack and E. Lackey. No. 42,635; June 18; Gaz. vol. 179; p. 828.
Harness ring and loop, Combined. C. H. Danielson. No. 42,731; July 9; Gaz. vol. 180; p. 570.
Hat. S. Mundheim. No. 42,438; Apr. 30; Gaz. vol. 177; p. 1273.
Hat-pin. A. Klell. No. 42,943; Aug. 27; Gaz. vol. 181; p. 1051.
Hat-pin guard. A. Huml. No. 42,604; June 11; Gaz. vol. 179; p. 551.
Hat-sweat. C. Brandt. No. 43,251; Nov. 19; Gaz. vol. 184; p. 784.
Heater or similar article. A. A. Low and H. Hertzberg. No. 42,692; July 2; Gaz. vol. 180; p. 293.
Heel-rest, Chauffeur's. J. L. Lucas. No. 42,396; Apr. 9; Gaz. vol. 177; p. 501.
Hinge. J. P. McKinney. No. 42,259; Mar. 5; Gaz. vol. 176; p. 252.
Hinge-leaf. W. D. Ferris. No. 42,168; Feb. 13; Gaz. vol. 175; p. 520.
Hoist casing, Electric-. H. S. Valentine. No. 43,065; Sept. 24; Gaz. vol. 182; p. 947.
Hoists, Motor-casing for electric. H. S. Valentine. No. 43,066; Sept. 24; Gaz. vol. 182; p. 947.
Hook, Metal. A. Robeson. No. 43,061; Sept. 24; Gaz. vol. 182; p. 946.
Horn. L. Schlesinger. No. 42,650; June 18; Gaz. vol. 179; p. 830.
Horn, Signaling-. M. S. Purple. No. 43,158; Oct. 15; Gaz. vol. 183; p. 763.
Hub cap, Wheel-. J. L. Sugden. No. 43,085; Oct. 1; Gaz. vol. 183; p. 203.
Ice-chest for liquid-dispensing apparatus. F. W. Calvert. No. 42,268; Mar. 12; Gaz. vol. 176; p. 497.
Ice-cream freezer. F. Tyson. No. 42,791; July 9; Gaz. vol. 180; p. 579.
Ice-cream-freezer base. F. Tyson. No. 42,377; Mar. 26; Gaz. vol. 176; p. 1051.
Inkstand. F. M. Ashley. No. 42,077; Jan. 9; Gaz. vol. 174; p. 569.
Inkstand. F. A. Weeks. Nos. 43,126–8; Oct. 8; Gaz. vol. 183; p. 485.
Inkstand. C. H. Numan. No. 43,321; Dec. 3; Gaz. vol. 185; p. 225.
Insect-trap. G. Rainey. No. 42,298; Mar. 12; Gaz. vol. 176; p. 503.
Jack-screw stand and lifter. T. A. J. Wheeler. No. 42,378; Mar. 26; Gaz. vol. 176; p. 1051.
Jar. F. A. Brown. No. 42,990; Sept. 10; Gaz. vol. 182; p. 484.
Jar or receptacle. J. C. Eichhorn. No. 43,137; Oct. 15; Gaz. vol. 183; p. 759.
Jewel-case. R. Waldron. No. 42,658; June 18; Gaz. vol. 179; p. 832.
Jewel-setting. P. Silbermann. No. 42,381; Apr. 2; Gaz. vol. 177; p. 221.
Jewelry or similar articles, Tubular stock for. H. C. Bliss. No. 42,411; Apr. 23; Gaz. vol. 177; p. 1018.
Jewelry ornament. L. H. Fishel. Nos. 42,252–3; Mar. 5; Gaz. vol. 176; p. 251.
Kettle and stand. S. Sternau and C. Nelson. No. 43,122; Oct. 8; Gaz. vol. 183; p. 484.
Kettle, Reinforced. E. C. Hoffmann. No. 43,106; Oct. 8; Gaz. vol. 183; p. 481.
Key. E. B. Stone. No. 42,094; Jan. 9; Gaz. vol. 174; p. 572.
Key. F. Soley. No. 42,152; Feb. 6; Gaz. vol. 175; p. 243.
Key-handle. R. A. Hudnut. No. 42,942; Aug. 27; Gaz. vol. 181; p. 1051.
Key-ring. H. P. Roberts. No. 42,882; Aug. 13; Gaz. vol. 181; p. 516.
Keyhole-finder. A. L. Marshall. No. 42,639; June 18; Gaz. vol. 179; p. 829.
Knife. L. H. Cress. Nos. 42,619–20; June 18; Gaz. vol. 179; p. 825.
Knife and fork, Combined. G. Gafinowitz. No. 42,622; June 18; Gaz. vol. 179; p. 826.
Knife and fork, Combined. M. S. Hewitt. No. 43,044; Sept. 24; Gaz. vol. 182; p. 943.
Knife-handle. A. W. Williams. No. 42,408; Apr. 9; Gaz. vol. 177; p. 503.
Knife-handle. L. P. Huey. No. 43,194; Oct. 29; Gaz. vol. 183; p. 1282.
Knife, Vegetable-. O. A. Smith. No. 42,194; Feb. 20; Gaz. vol. 175; p. 824.
Knit neckscarf or muffler, Flat-. S. S. Sampliner. No. 42,238; Feb. 27; Gaz. vol. 175; p. 1078.
Knitted and other fabrics, Border for. W. H. Carter. No. 43,336; Dec. 10; Gaz. vol. 185; p. 507.
Label-blank. S. Cohn. No. 42,930; Aug. 27; Gaz. vol. 181; p. 1049.
Label-blank. E. J. Sonn. Nos. 43,027–9; Sept. 17; Gaz. vol. 182; pp. 710–11.
Label-blank. E. Steffens, Jr., and H. A. Jones. No. 43,168; Oct. 15; Gaz. vol. 183; p. 765.
Lace. J. G. Handol. No. 42,564; May 28; Gaz. vol. 178; p. 1128.
Lace. I. Rieger. No. 42,590; June 4; Gaz. vol. 179; p. 265.
Lace. H. Schwarber. No. 43,258; Nov. 19; Gaz. vol. 184; p. 785.
Lace edging. W. E. Keach. No. 42,417; Apr. 23; Gaz. vol. 177; p. 1019.
Lace edging. S. N. Goodman. Nos. 42,740–6; July 9; Gaz. vol. 180; p. 571.
Lace insertion. W. E. Keach. No. 42,759; July 9; Gaz. vol. 180; p. 574.
Lace, Levers. C. W. Birkin. Nos. 42,451–3; May 7; Gaz. vol. 178; pp. 292–3.
Lace, Levers. C. W. Birkin. No. 42,662; June 25; Gaz. vol. 179; p. 1079.
Lacing-hook. E. L. Pupke. No. 42,543; May 21; Gaz. vol. 178; p. 860.
Lamp. H. E. Bandlow. No. 42,078; Jan. 9; Gaz. vol. 174; p. 569.
Lamp. A. J. Neerken. No. 42,697; July 2; Gaz. vol. 180; p. 294.
Lamp. L. Schepmoes. Nos. 42,712–13; July 2; Gaz. vol. 180; p. 296.
Lamp. W. F. Anklam. No. 42,724; July 9; Gaz. vol. 180; p. 568.
Lamp. W. S. Hamm. No. 42,796; July 16; Gaz. vol. 180; p. 854.
Lamp. L. Schepmoes. No. 42,860; Aug. 6; Gaz. vol. 181; p. 248.
Lamp. C. E. Godley. No. 43,142; Oct. 15; Gaz. vol. 183; p. 760.

Alphabetical list of designs—Continued.

Lamp. E. A. Hawthorne. Nos. 43,143–4; Oct. 15; Gaz. vol. 183; p. 760.
Lamp. J. E. Phinney. No. 43,203; Oct. 29; Gaz. vol. 183; p. 1284.
Lamp. W. S. Hamm. No. 43,217; Nov. 5; Gaz. vol. 184; p. 263.
Lamp, Acetylene-. A. L. Hansen. No. 42,460; May 7; Gaz. vol. 178; p. 294.
Lamp, Acetylene-. A. L. Hansen. No. 42,917; Aug. 20; Gaz. vol. 181; p. 799.
Lamp and support. W. P. Thoré. No. 43,292; Nov. 26; Gaz. vol. 184; p. 1058.
Lamp, Automobile-. W. S. Hamm and R. M. Newbold. No. 42,083; Jan. 9; Gaz. vol. 174; p. 570.
Lamp, Automobile-. A. E. Moody. No. 43,226; Nov. 5; Gaz. vol. 184; p. 265.
Lamp, Automobile signal-. J. F. Kress, D. J. O'Connell, and L. N. Osmond. No. 42,690; July 2; Gaz. vol. 180; p. 293.
Lamp body, Gas-. F. W. Magee. No. 42,365; Mar. 26; Gaz. vol. 176; p. 1048.
Lamp-bowl. L. Schepmoes. No. 43,121; Oct. 8; Gaz. vol. 183; p. 484.
Lamp, Candle-. P. Ebeling. No. 42,389; Apr. 9; Gaz. vol. 177; p. 500.
Lamp-casing. E. R. Estep. No. 42,127; Feb. 6; Gaz. vol. 175; p. 239.
Lamp-cluster. J. D. Ross. No. 42,859; Aug. 6; Gaz. vol. 181; p. 248.
Lamp-collar. E. W. Bryce. No. 42,572; June 4; Gaz. vol. 179; p. 262.
Lamp, Combination-. J. R. Pagin. No. 42,771; July 9; Gaz. vol. 180; p. 576.
Lamp, Electric. R. B. Benjamin. No. 42,118; Jan. 30; Gaz. vol. 174; p. 1196.
Lamp-fixture. L. Schepmoes. No. 43,110; Oct. 8; Gaz. vol. 183; p. 481.
Lamp fixture, Berth-. L. Schepmoes. No. 43,113; Oct. 8; Gaz. vol. 183; p. 482.
Lamp fixture, Bracket-. L. Schepmoes. No. 43,117; Oct. 8; Gaz. vol. 183; p. 483.
Lamp fixture, Deck-. L. Schepmoes. Nos. 43,118–20; Oct. 8; Gaz. vol. 183; pp. 483–4.
Lamp fixture, Deck-. L. Schepmoes. Nos. 43,165–6; Oct. 15; Gaz. vol. 183; p. 764.
Lamp fixture, Deck-. L. Schepmoes. No. 43,237; Nov. 5; Gaz. vol. 184; p. 266.
Lamp, Gas-. A. H. Humphrey. No. 43,001; Sept. 10; Gaz. vol. 182; p. 487.
Lamp glass or lens. G. A. Macbeth. No. 42,854; Aug. 6; Gaz. vol. 181; p. 247.
Lamp globe, Arc-. H. M. Hirschberg. No. 42,941; Aug. 27; Gaz. vol. 181; p. 1051.
Lamp, Hanging. J. Boderman. No. 42,455; May 7; Gaz. vol. 178; p. 293.
Lamp, Inverted gas arc-. H. Rubin. No. 43,347; Dec. 17; Gaz. vol. 185; p. 808.
Lamp, Pendent. W. S. Hamm. No. 43,193; Oct. 29; Gaz. vol. 183; p. 1282.
Lamp-post. C. E. Grelle. Nos. 42,280–5; Mar. 12; Gaz. vol. 176; p. 500.
Lamp-post. C. E. Grelle. No. 42,688; July 2; Gaz. vol. 180; p. 292.
Lamp-post. J. C. Hobrecht. No. 42,967; Sept. 3; Gaz. vol. 182; p. 224.
Lamp-post. T. Wight. No. 43,129; Oct. 8; Gaz. vol. 183; p. 486.
Lamp-post. C. E. Grelle. Nos. 43,338–9; Dec. 10; Gaz. vol. 185; p. 507.
Lamp-shade. R. Haley. Nos. 42,098–9; Jan. 16; Gaz. vol. 174; pp. 813–14.
Lamp-shade. H. A. Schnelbach. Nos. 42,111–12; Jan. 23; Gaz. vol. 174; p. 1008.
Lamp-shade. H. A. Schnelbach. No. 42,151; Feb. 6; Gaz vol. 175; p. 243.
Lamp-shade. J. O. Erskine. No. 42,319; Mar. 19; Gaz. vol. 176; p. 727.
Lamp-shade. J. Friedberg. Nos. 42,575–6; June 4; Gaz. vol. 179; p. 262.
Lamp-shade. L. W. Young. No. 42,661; June 18; Gaz. vol. 179; p. 832.
Lamp-shade. J. Friedberg. No. 42,838; July 30; Gaz. vol. 180; p. 1374.
Lamp-shade. L. W. Young. No. 42,866; Aug. 6; Gaz. vol. 181; p. 249.
Lamp-shade. A. Magnus. No. 42,921; Aug. 20; Gaz. vol. 181; p. 800.
Lamp-shade. F. M. Hawe and H. S. Evans. No. 43,043; Sept. 24; Gaz. vol. 182; p. 943.
Lamp, Signal-. F. D. Spear. No. 43,344; Dec. 10; Gaz. vol. 185; p. 508.
Lamp, Street-. F. H. Wallis. No. 42,263; Mar. 5; Gaz. vol. 176; p. 253.
Lamp, Street-. C. E. Cleveland. No. 42,434; Apr. 30; Gaz. vol. 177; p. 1272.
Lantern. A. R. Pritchard. No. 42,338; Mar. 19; Gaz. vol. 176; p. 730.
Lantern, Tubular. W. McArthur, Jr. No. 42,488; May 7; Gaz. vol. 178; p. 299.
Lavatory. J. A. Campbell. No. 42,457; May 7; Gaz. vol. 178; p. 293.
Lemon-squeezer. W. H. Carroll. No. 42,499; May 14; Gaz. vol. 178; p. 566.
Letter-head or similar article. R. Onffroy. No. 42,228; Feb. 27; Gaz. vol. 175; p. 1073.
Letters and numerals for signs, Set of. R. F. Mason. No. 42,923; Aug. 20; Gaz. vol. 181; p. 800.
Letters and other characters, Set of. J. B. Lee. No. 42,766; July 9; Gaz. vol. 180; p. 575.
Level. A. D. Armstrong. No. 42,347; Mar. 26; Gaz. vol. 176; p. 1046.
Level. W. Disston. Nos. 43,191–2; Oct. 29; Gaz. vol. 183; pp. 1281–2.
Light-fixture. W. P. Thoré. No. 42,528; May 14; Gaz. vol. 178; p. 572.
Light fixture, Berth-. L. Schepmoes. No. 43,112; Oct. 8; Gaz. vol. 183; p. 482.
Light shade, Artificial-. R. Haley. Nos. 42,847–9; Aug. 6; Gaz. vol. 181; p. 246.
Light shade, Artificial-. K. Booth. No. 43,079; Oct. 1; Gaz. vol. 183; p. 202.
Lighting-fixture reflector holder-bowl. O. Spindler. Nos. 42,863–4; Aug. 6; Gaz. vol. 181; p. 249.
Lighting-fixtures or similar articles, Shell for. H. E. Watkins. No. 43,067; Sept. 24; Gaz. vol. 182; p. 948.
Lighting-fixtures or similar articles, Shell for. H. E. Watkins. No. 43,070; Sept. 24; Gaz. vol. 182; p. 948.
Lighting-fixtures or similar articles, Shell for. H. E. Watkins. Nos. 43,086–9; Oct. 1; Gaz. vol. 183; p. 204.
Lighting-fixtures or similar articles, Shell for. H. E. Watkins. Nos. 43,096–7; Oct. 1; Gaz. vol. 183; p. 205.
Lighting-fixtures or similar articles, Shell for. H. E. Watkins. No. 43,099; Oct. 1; Gaz. vol. 183; p. 206.
Lightning-rod terminal. S. D. Kretzer. No. 42,173; Feb. 13; Gaz. vol. 175; p. 521.
Link. M. Garland. No. 42,937; Aug. 27; Gaz. vol. 181; p. 1050.
Linoleum. H. C. Leslie. No. 42,582; June 4; Gaz. vol. 179; p. 263.
Linoleum, oil-cloth, or floor-covering. C. F. Humphreys. Nos. 42,626–7; June 18; Gaz. vol. 179; p. 827.
Linoleum, oil-cloth, or floor-covering. H. Humphreys. No. 43,220; Nov. 5; Gaz. vol. 184; p. 263.
Linoleum, oil-cloth, or floor-covering. C. F. Humphreys. No. 43,221; Nov. 5; Gaz. vol. 184; p. 264.
Linoleum, oil-cloth, or floor-covering. H. Humphreys. No. 43,308; Dec. 3; Gaz. vol. 185; p. 222.
Linoleum, oil-cloth, or other printed or inlaid floor-covering. C. F. Humphreys. Nos. 42,505–13; May 14; Gaz. vol. 178; pp. 567–9.
Linoleum or oil-cloth. C. F. Humphreys. No. 42,211; Feb. 27; Gaz. vol. 175; p. 1070.
Liquid cooler and dispenser. H. G. Cordley. No. 42,166; Feb. 13; Gaz. vol. 175; p. 520.
Liquid cooler and dispenser. H. G. Cordley. No. 42,959; Sept. 3; Gaz. vol. 182; p. 223.
Lock-hook. L. Williams. No. 42,987; Sept. 3; Gaz. vol. 182; p. 227.
Lock-jar. A. J. Guidry. No. 42,965; Sept. 3; Gaz. vol. 182; p. 224.
Locket. C. Dailey. Nos. 42,386–7; Apr. 9; Gaz. vol. 177; p. 500.
Locket. H. C. Bliss. No. 42,454; May 7; Gaz. vol. 178; p. 293.
Locket. C. Dailey. No. 42,730; July 9; Gaz. vol. 180; p. 569.
Loom shuttle-threading eye. E. Morris. No. 42,856; Aug. 6; Gaz. vol. 181; p. 247.
Lucky figure, amulet, or talisman. R. Fanner. No. 42,167; Feb. 13; Gaz. vol. 175; p. 520.
Machine-frame. E. H. Oderman. No. 42,294; Mar. 12; Gaz. vol. 176; p. 502.
Machine-stand. G. Holmberg. No. 42,625; June 18; Gaz. vol. 179; p. 826.
Mail-box. C. H. Baldwin. No. 42,095; Jan. 16; Gaz. vol. 174; p. 813.
Masher, Vegetable-. N. R. Streeter. No. 43,064; Sept. 24; Gaz. vol. 182; p. 947.
Massage device. C. E. Thompson. No. 42,119; Jan. 30; Gaz. vol. 174; p. 1196.
Massage device, Facial-. J. L. Erskine. No. 42,435; Apr. 30; Gaz. vol. 177; p. 1272.
Massage devices, Rubber finger-pad for. C. E. Thompson. No. 42,121; Jan. 30; Gaz. vol. 174; p. 1196.
Match-box. A. Hawkins. No. 43,218; Nov. 5; Gaz. vol. 184; p. 263.
Match-box and candle-holder. H. C. Edmiston. No. 42,318; Mar. 19; Gaz. vol. 176; p. 726.
Mattock. J. A. Moore. No. 43,153; Oct. 15; Gaz. vol. 183; p. 762.
Medallion. E. B. Thomas. No. 43,249; Nov. 12; Gaz. vol. 184; p. 530.
Menu and chandelier stand. W. Sedgwick. No. 42,955; Aug. 27; Gaz. vol. 181; p. 1053.
Metal beam, Profiled structural. J. Jay, G. Jalliffier, and A. Blanc. Nos. 42,536–8; May 21; Gaz. vol. 178; p. 859.
Metal plate. J. S. Larsen and A. Valerius. No. 42,765; July 9; Gaz. vol. 180; p. 575.

Alphabetical list of designs—Continued.

Mirrors, brushes, or similar articles, Back for toilet. J. W. Farrell. Nos. 43,138–9; Oct. 15; Gaz. vol. 183; pp. 759–60.
Mirrors or similar articles, Back of. T. Bender. No. 42,908; Aug. 20; Gaz. vol. 181; p. 797.
Molasses-jug. J. Paull. No. 42,647; June 18; Gaz. vol. 179; p. 830.
Monument. L. M. Elwell. No. 42,664; June 25; Gaz. vol. 179; p. 1079.
Monument. H. M. Ream. No. 42,975; Sept. 3; Gaz. vol. 182; p. 226.
Mopping-cabinet. T. J. Crawford and K. J. Atkinson. No. 42,835; July 30; Gaz. vol. 180; p. 1373.
Motor and generator casing. C. W. Dake and J. E. Kilker. No. 42,316; Mar. 19; Gaz. vol. 176; p. 726.
Musical-instrument case. F. Theiss. No. 42,984; Sept. 3; Gaz. vol. 182; p. 227.
Neck or chest protector. A. C. Delson. No. 42,082; Jan. 9; Gaz. vol. 174; p. 570.
Necktie-holder. T. Brommenschenkel. No. 42,432; Apr. 30; Gaz. vol. 177; p. 1272.
Newspaper-stand. C. Russell. No. 43,164; Oct. 15; Gaz. vol. 183; p. 764.
Noodle or macaroni. S. Mueller. No. 42,608; June 11; Gaz. vol. 179; p. 51.
Nose-guard. E. Riggs. No. 42,976; Sept. 3; Gaz. vol. 182; p. 226.
Nose-guard. W. G. King. No. 43,049; Sept. 24; Gaz. vol. 182; p. 944.
Nutcracker. A. L. Mordt. Nos. 42,143–4; Feb. 6; Gaz. vol. 175; p. 241.
Oil-cloth or linoleum. C. F. Humphreys. No. 42,394; Apr. 9; Gaz. vol. 177; p. 501.
Oven. W. H. Wilder and F. E. White. No. 42,659; June 18; Gaz. vol. 179; p. 832.
Padlock. A. A. Page. No. 42,515; May 14; Gaz. vol. 178; p. 569.
Paper closure or stopper for paper vessels. A. L. Weis. No. 42,519; May 14; Gaz. vol. 178; p. 570.
Paper cup. E. E. Claussen and E. A. Claus. No. 42,500; May 14; Gaz. vol. 178; p. 566.
Paper parasol, Imitation. I. Marks. No. 43,200; Oct. 29; Gaz. vol. 183; p. 1283.
Paper, Wall-. R. W. Mackintosh. Nos. 42,637–8; June 18; Gaz. vol. 179; p. 829.
Paper-weight and pen-rest. G. C. Gebelein. No. 42,391; Apr. 9; Gaz. vol. 177; p. 500.
Paper-weight. C. H. Numan. Nos. 43,230–1; Nov. 5; Gaz. vol. 184; p. 265.
Paper-weight. G. G. Greenburg. No. 43,306; Dec. 3; Gaz. vol. 185; p. 221.
Parasol. C. J. Follmer. No. 42,503; May 14; Gaz. vol. 178; p. 566.
Pen rack and tray. C. H. Numan. Nos. 43,154–5; Oct. 15; Gaz. vol. 183; p. 762.
Penholder or similar article. M. Bernstein. No. 43,242; Nov. 12; Gaz. vol. 184; p. 528.
Pencil-case or similar article. F. W. Tolfree. No. 42,553; May 21; Gaz. vol. 178; p. 862.
Pendant-fixture. L. Schepmoes. Nos. 43,114–16; Oct. 8; Gaz. vol. 183; pp. 482–3.
Percolator, Coffee-. C. Nelson. No. 42,088; Jan. 9; Gaz. vol. 174; p. 571.
Percolator coffee-pot. E. A. Farr. No. 42,621; June 18; Gaz. vol. 179; p. 826.
Percolator coffee-pot. E. A. Farr. No. 43,244; Nov. 12; Gaz. vol. 184; p. 529.
Phonograph-box or similar article. W. Wuthenow. No. 42,569; May 28; Gaz. vol. 178; p. 1129.
Phonograph-table. S. M. Wirts. No. 42,660; June 18; Gaz. vol. 179; p. 832.
Piano-case. N. J. Nelson. No. 42,189; Feb. 20; Gaz. vol. 175; p. 823.
Piano-case. J. P. Seeburg. No. 42,862; Aug. 6; Gaz. vol. 181; p. 849.
Piano-case. W. L. Engelhardt. No. 43,357; Dec. 24; Gaz. vol. 185; p. 1026.
Piano lever, Player-. C. Bergland. No. 42,989; Sept. 10; Gaz. vol. 182; p. 484.
Picture-display-machine body. A. F. Victor. No. 42,496; May 7; Gaz. vol. 178; p. 300.
Picture-frame. W. H. Saart. Nos. 42,951–3; Aug. 27; Gaz. vol. 181; p. 1053.
Picture-hanger. I. Ducsay. No. 42,105; Jan. 23; Gaz. vol. 174; p. 1007.
Picture-hook or similar article. I. A. M. Larsson. No. 42,970; Sept. 3; Gaz. vol. 182; p. 225.
Picture, Stamped-metal framed. H. L. Beach. No. 42,266; Mar. 12; Gaz. vol. 176; p. 497.
Pin, Monogram-. S. Glass. No. 42,687; July 2; Gaz. vol. 180; p. 292.
Pin, Nurse's. M. E. Kaufmann. No. 43,107; Oct. 8; Gaz. vol. 183; p. 481.
Pin, Tie-. E. O. Miller. No. 43,407; Dec. 31; Gaz. vol. 185; p. 1358.
Pincushion. E. Stewart. No. 42,340; Mar. 19; Gaz. vol. 176; p. 730.
Pinwheel, Aero-. C. L. Duenkel. No. 42,811; July 23; Gaz. vol. 180; p. 1119.
Pipe cover, Tobacco-. J. E. Clemens. No. 42,165; Feb. 13; Gaz. vol. 175; p. 520.
Pitcher. T. C. Heisey. No. 42,665; June 25; Gaz. vol. 179; p. 1079.
Pitcher, Molasses-. A. J. Sanford. No. 42,612; June 11; Gaz. vol. 179; p. 552.
Pitcher, Molasses-. C. S. Baron. No. 43,350; Dec. 24; Gaz. vol. 185; p. 1025.
Pitcher or can. I. J. Collins. Nos. 42,269–70; Mar. 12; Gaz. vol. 176; p. 498.
Plaque. C. J. Dieges. No. 43,034; Sept. 24; Gaz. vol. 182; p. 941.
Plate. M. Aaron. No. 42,616; June 18; Gaz. vol. 179; p. 825.
Plate. T. Haviland. No. 43,307; Dec. 3; Gaz. vol. 185; p. 222.
Plate. E. E. Walter. No. 43,413; Dec. 31; Gaz. vol. 185; p. 1359.
Plate or similar article. H. C. Kupper. Nos. 42,763–4; July 9; Gaz. vol. 180; pp. 574–5.
Plate or similar article. C. A. May. No. 42,807; July 16; Gaz. vol. 180; p. 857.
Plate or similar article. C. M. Villontreix. No. 43,240; Nov. 5; Gaz. vol. 184; p. 267.
Plate or similar article. C. R. Marcus. No. 43,255; Nov. 19; Gaz. vol. 184; p. 784.
Plate, platter, tray, or similar article. H. W. Hirschfeld. No. 43,404; Dec. 31; Gaz. vol. 185; p. 1357.
Plumber's trap. G. Cody. No. 42,315; Mar. 19; Gaz. vol. 176; p. 726.
Pneumatic-cleaner casing. G. C. Schmitz. No. 43,380; Dec. 24; Gaz. vol. 185; p. 1031.
Pole-step. J. H. White. No. 42,598; June 4; Gaz. vol. 179; p. 266.
Portable heater. M. L. Packer. No. 42,699; July 2; Gaz. vol. 180; p. 294.
Portfolio-cover. E. F. Caldwell. Nos. 42,351–2; Mar. 26; Gaz. vol. 176; p. 1046.
Portfolio-cover. E. F. Caldwell. No. 42,456; May 7; Gaz. vol. 178; p. 293.
Portière. A. E. Neff. No. 42,087; Jan. 9; Gaz. vol. 174; p. 571.
Post-bracket. C. E. Grelle. No. 43,037; Sept. 24; Gaz. vol. 182; p. 941.
Powder and dispenser, Toilet. E. Oldenbusch. No. 43,055; Sept. 24; Gaz. vol. 182; p. 945.
Puff-box. J. D. Gunder. No. 42,749; July 9; Gaz. vol. 180; p. 572.
Pulley-casing. C. Tuteur. No. 42,720; July 2; Gaz. vol. 180; p. 297.
Pulley-guard. F. B. Mallory. No. 42,667; June 25; Gaz. vol. 179; p. 1080.
Pump and engine base. X. Caverno. No. 43,032; Sept. 24; Gaz. vol. 182; p. 940.
Pump-casing. J. Desmond. No. 43,271; Nov. 26; Gaz. vol. 184; p. 1054.
Pumps and connections, Casing for fluid-motive power-. C. G. Weld. No. 43,241; Nov. 5; Gaz. vol. 184; p. 267.
Purse. E. H. Weimer. No. 42,407; Apr. 9; Gaz. vol. 177; p. 503.
Purse. E. G. Banks. No. 43,334; Dec. 10; Gaz. vol. 185; p. 506.
Puzzle. C. E. Randall. No. 43,204; Oct. 29; Gaz. vol. 183; p. 1284.
Rack. I. T. De Ajuria. No. 43,080; Oct. 1; Gaz. vol. 183; p. 203.
Radiator. M. Werner. No. 42,793; July 9; Gaz. vol. 180; p. 579.
Radiator-filler cap, Automobile. H. B. Joy. No. 42,139; Feb. 6; Gaz. vol. 175; p. 241.
Radiators and registers, Foot-rest for. M. B. Goodwin. No. 43,274; Nov. 26; Gaz. vol. 184; p. 1054.
Range, Coal-. L. Scruggs. No. 42,375; Mar. 26; Gaz. vol. 176; p. 1050.
Range, Cooking-. A. F. Harter. No. 42,797; July 16; Gaz. vol. 180; p. 854.
Range, Cooking-. A. F. Harter. Nos. 42,799–800; July 16; Gaz. vol. 180; p. 855.
Range, Cooking-. A. F. Harter. No. 42,802; July 16; Gaz. vol. 180; p. 856.
Range, Gas-. J. A. Alexander and F. K. Berry. Nos. 42,570–1; June 4; Gaz. vol. 179; p. 261.
Range top, Coal-. F. Will and H. Becker. No. 43,075; Sept. 24; Gaz. vol. 182; p. 949.
Razor blade, Safety-. J. W. Leslie. No. 43,082; Oct. 1; Gaz. vol. 183; p. 203.
Razor holder, Safety-. L. Hiener. No. 42,940; Aug. 27; Gaz. vol. 181; p. 1051.
Razor-strop and mirror, Combined. S. Rieger. No. 43,020; Sept. 10; Gaz. vol. 182; p. 490.
Razors or similar articles, Handle for. G. W. Korn. No. 43,405; Dec. 31; Gaz. vol. 185; p. 1358.
Reflector and attachment. H. D'Olier, Jr. No. 42,961; Sept. 3; Gaz. vol. 182; p. 223.
Reflector-bracket. P. M. Hotchkin. No. 42,580; June 4; Gaz. vol. 179; p. 263.
Reflector holder-bowl for lighting-fixtures. A. D. Curtis. No. 42,573; June 4; Gaz. vol. 179; p. 262.
Reflector holder-bowl for lighting-fixtures. G. I. Runion. No. 42,593; June 4; Gaz. vol. 179; p. 265.

Alphabetical list of designs—Continued.

Reflector holder-bowls for lighting-fixtures, Attachment for. P. M. Hotchkin. No. 42,579; June 4; Gaz. vol. 179; p. 263.
Reflector-shade. J. H. Strong. No. 42,403; Apr. 9; Gaz. vol. 177; p. 503.
Reservoir-top. F. W. Judd. No. 42,140; Feb. 6; Gaz. vol. 175; p. 241.
Ribbon-bow holder. F. L. Leyser. No. 42,288; Mar. 12; Gaz. vol. 176; p. 501.
Ring, Engagement-. J. A. and E. C. Abel. No. 42,530; May 21; Gaz. vol. 178; p. 858.
Ring-setting for precious stones. B. Huchberger. No. 42,286; Mar. 12; Gaz. vol. 176; p. 501.
Ring, Wedding-. J. A. and E. C. Abel. No. 42,531; May 21; Gaz. vol. 178; p. 858.
Rocking-horse. A. W. Pressler. Nos. 42,373–4; Mar. 26; Gaz. vol. 176; p. 1050.
Rocking-horse. A. W. Pressler. No. 42,409; Apr. 16; Gaz. vol. 177; p. 750.
Rubber bathing-cap. R. Parker. No. 42,645; June 18; Gaz. vol. 179; p. 830.
Rubber bathing-cap. E. M. Parker. No. 42,646; June 18; Gaz. vol. 179; p. 830.
Rubber brush. O. Eick. Nos. 42,733–7; July 9; Gaz. vol. 180; p. 570.
Rubber mat. E. H. Huxley. No. 42,327; Mar. 19; Gaz. vol. 176; p. 728.
Rug. W. G. Reith. No. 42,147; Feb. 6; Gaz. vol. 175; p. 242.
Rug. E. G. Sauer. No. 42,150; Feb. 6; Gaz. vol. 175; p. 242.
Rug. J. Spring. Nos. 42,154–7; Feb. 6; Gaz. vol. 175; pp. 243–4.
Rug. E. W. Trik. No. 42,158; Feb. 6; Gaz. vol. 175; p. 244.
Rug. A. Petzold. Nos. 42,190–2; Feb. 20; Gaz. vol. 175; pp. 823–4.
Rug. A. Petzold. Nos. 42,232–4; Feb. 27; Gaz. vol. 175; p. 1074.
Rug. J. B. Moffat. Nos. 42,291–2; Mar. 12; Gaz. vol. 176; p. 501.
Rug. W. G. Reith. No. 42,299; Mar. 12; Gaz. vol. 176; p. 503.
Rug. E. G. Sauer. No. 42,304; Mar. 12; Gaz. vol. 176; p. 504.
Rug. A. Petzold. Nos. 42,439–40; Apr. 30; Gaz. vol. 177; p. 1273.
Rug. T. L. Lawton. Nos. 42,472–84; May 7; Gaz. vol. 178; pp. 295–8.
Rug. A. Petzold. Nos. 42,490–3; May 7; Gaz. vol. 178; pp. 299–300.
Rug. J. Merry. No. 42,540; May 21; Gaz. vol. 178; p. 859.
Rug. R. F. Riddell. No. 42,544; May 21; Gaz. vol. 178; p. 860.
Rug. J. Spring. No. 42,552; May 21; Gaz. vol. 178; p. 861.
Rug. F. Heidl. No. 42,578; June 4; Gaz. vol. 179; p. 263.
Rug. A. Petzold. Nos. 42,584–9; June 4; Gaz. vol. 179; pp. 264–5.
Rug. H. W. Parton. Nos. 42,609–10; June 11; Gaz. vol. 179; pp. 551–2.
Rug. G. J. Stengel. Nos. 42,613–14; June 11; Gaz. vol. 179; p. 552.
Rug. J. Merry. Nos. 42,668–70; June 25; Gaz. vol. 179; pp. 1080–1.
Rug. A. Petzold. Nos. 42,671–2; June 25; Gaz. vol. 179; p. 1081.
Rug. R. F. Riddell. No. 42,673; June 25; Gaz. vol. 179; p. 1081.
Rug. E. G. Sauer. No. 42,674; June 25; Gaz. vol. 179; p. 1081.
Rug. F. Schindler. Nos. 42,675–6; June 25; Gaz. vol. 179; p. 1082.
Rug. W. A. Spring. Nos. 42,678–9; June 25; Gaz. vol. 179; pp. 1082–3.
Rug. B. Cohen. No. 42,685; July 2; Gaz. vol. 180; p. 292.
Rug. H. C. Lacouture. No. 42,691; July 2; Gaz. vol. 180; p. 293.
Rug. R. F. Riddell. Nos. 42,706–7; July 2; Gaz. vol. 180; p. 295.
Rug. J. Spring. No. 42,714; July 2; Gaz. vol. 180; p. 296.
Rug. W. A. Spring. Nos. 42,715–16; July 2; Gaz. vol. 180; pp. 296–7.
Rug. E. W. Trik. No. 42,719; July 2; Gaz. vol. 180; p. 297.
Rug. A. Petzold. Nos. 42,822–5; July 23; Gaz. vol. 180; p. 1121.
Rug. W. A. Elliot. No. 42,869; Aug. 13; Gaz. vol. 181; p. 514.
Rug. E. Fisher. No. 42,871; Aug. 13; Gaz. vol. 181; p. 514.
Rug. T. L. Lawton. No. 42,873; Aug. 13; Gaz. vol. 181; p. 515.
Rug. J. Merry. No. 42,875; Aug. 13; Gaz. vol. 181; p. 515.
Rug. A. Petzold. Nos. 42,878–80; Aug. 13; Gaz. vol. 181; p. 516.
Rug. E. G. Sauer. Nos. 42,883–92; Aug. 13; Gaz. vol. 181; pp. 517–19.
Rug. J. Spring. Nos. 42,897–9; Aug. 13; Gaz. vol. 181; pp. 520–1.
Rug. W. A. Spring. Nos. 42,900–1; Aug. 13; Gaz. vol. 181; p. 521.
Rug. E. W. Trik. Nos. 42,902–3; Aug. 13; Gaz. vol. 181; pp. 521–2.
Rug. D. G. Melville. Nos. 43,007–8; Sept. 10; Gaz. vol. 182; p. 488.
Rug. A. Petzold. Nos. 43,012–14; Sept. 10; Gaz. vol. 182; p. 489.
Rug. A. Petzold. No. 43,247; Nov. 12; Gaz. vol. 184; p. 529.
Rug. H. C. Lacouture. No. 43,309; Dec. 3; Gaz. vol. 185; p. 222.
Rug. J. Merry. Nos. 43,312–17; Dec. 3; Gaz. vol. 185; pp. 223–4.
Rug. J. B. Moffat. Nos. 43,318–20; Dec. 3; Gaz. vol. 185; pp. 224–5.
Rug. R. F. Riddell. No. 43,322; Dec. 3; Gaz. vol. 185; p. 225.
Rug. E. G. Sauer. Nos. 43,323–4; Dec. 3; Gaz. vol. 185; p. 226.
Rug. J. Spring. No. 43,325; Dec. 3; Gaz. vol. 185; p. 226.
Rug. W. A. Spring. Nos. 43,326–8; Dec. 3; Gaz. vol. 185; pp. 226–7.
Rug. W. A. Elliot. Nos. 43,354–6; Dec. 24; Gaz. vol. 185; p. 1026.
Rug. M. R. Loudon. No. 43,360; Dec. 24; Gaz. vol. 185; p. 1027.
Rug. W. A. Pardoe. Nos. 43,363–4; Dec. 24; Gaz. vol. 185; pp. 1027–8.
Rug. R. F. Riddell. Nos. 43,366–9; Dec. 24; Gaz. vol. 185; p. 1028.
Rug. E. G. Sauer. Nos. 43,371–7; Dec. 24; Gaz. vol. 185; pp. 1029–30.
Rug. F. Schindler. No. 43,379; Dec. 24; Gaz. vol. 185; p. 1031.
Rug. J. Spring. Nos. 43,382–5; Dec. 24; Gaz. vol. 185; pp. 1031–2.
Rug. W. A. Spring. Nos. 43,386–7; Dec. 24; Gaz. vol. 185; p. 1032.
Rug. E. W. Trik. Nos. 43,391–7; Dec. 24; Gaz. vol. 185; pp. 1033–4.
Rug-border. W. A. Elliot. No. 42,126; Feb. 6; Gaz. vol. 175; p. 238.
Rug-border. E. G. Sauer. No. 43,378; Dec. 24; Gaz. vol. 185; p. 1030.
Rug, Woven. G. M. Fauser. No. 42,320; Mar. 19; Gaz. vol. 176; p. 727.
Sad-iron. O. Spahr and C. Stichler. No. 42,443; Apr. 30; Gaz. vol. 177; p. 1274.
Sad-iron, Gasolene-heated. H. E. Bandlow. No. 43,185; Oct. 29; Gaz. vol. 183; p. 1280.
Sad-iron handle. G. E. Wait and J. R. White. No. 42,344; Mar. 19; Gaz. vol. 176; p. 731.
Sad-iron stand. F. A. Burgess. No. 42,522; May 14; Gaz. vol. 178; p. 570.
Safe. J. M. Allen. No. 43,260; Nov. 19; Gaz. vol. 184; p. 785.
Salt-shaker. A. J. Sanford. No. 42,441; Apr. 30; Gaz. vol. 177; p. 1274.
Sauce-boat or similar article. C. E. Haviland. No. 42,577; June 4; Gaz. vol. 179; p. 263.
Saw-handle. H. Disston. No. 42,960; Sept. 3; Gaz. vol. 182; p. 223.
Scale. E. Schwartz. No. 42,861; Aug. 6; Gaz. vol. 181; p. 248.
Scale-dial rim. M. H. Hansen. No. 42,359; Mar. 26; Gaz. vol. 176; p. 1047.
Scale housing, Weighing-. L. C. Wetzel. No. 42,555; May 21; Gaz. vol. 178; p. 862.
Scarf. W. H. Scott, Jr. No. 42,517; May 14; Gaz. vol. 178; p. 569.
Scarf-pin. A. Reininger. No. 42,177; Feb. 13; Gaz. vol. 175; p. 522.
Scissors-blades, Handle of. W. M. Bowes. No. 43,265; Nov. 26; Gaz. vol. 184; p. 1053.
Scraper, Crumb-. C. Nelson. No. 42,925; Aug. 20; Gaz. vol. 181; p. 801.
Screw, Stage-. C. L. Hagen. No. 42,602; June 11; Gaz. vol. 179; p. 550.
Seals, Tool for removing. J. J. Ferrall and E. Mackay. No. 42,601; June 11; Gaz. vol. 179; p. 550.
Seat. H. C. Cansler. No. 42,184; Feb. 20; Gaz. vol. 175; p. 822.
Shade. N. Kopp. Nos. 42,631–4; June 18; Gaz. vol. 179; p. 828.
Shade and curtain-pole holder, Combined. F. W. Fay. No. 43,140; Oct. 15; Gaz. vol. 183; p. 760.
Shade-bowl. R. D. A. Thompson. No. 42,927; Aug. 20; Gaz. vol. 181; p. 801.
Shade, globe, or similar article. H. E. Watkins. Nos. 43,068–9; Sept. 24; Gaz. vol. 182; p. 948.
Shade, globe, or similar article. H. E. Watkins. Nos. 43,072–3; Sept. 24; Gaz. vol. 182; p. 948.
Shade, reflector, or similar article. O. A. Mygatt. Nos. 42,420–1; Apr. 23; Gaz. vol. 177; pp. 1019–20.
Shears, Member of a pair of. J. J. Alvord and F. Karsitz. No. 42,385; Apr. 9; Gaz. vol. 177; p. 499.

Alphabetical list of designs—Continued.

Shell or similar article. H. E. Watkins. No. 43,095; Oct. 1; Gaz. vol. 183; p. 205.
Shingle, Metal. J. E. Annis. No. 42,101; Jan. 23; Gaz. vol. 174; p. 1006.
Shingle, Metal. J. E. Annis. No. 43,400; Dec. 31; Gaz. vol. 185; p. 1357.
Shoe. W. Bernstein. No. 42,379; Apr. 2; Gaz. vol. 177; p. 220.
Shoe ornament. M. J. and S. Parrott. No. 43,157; Oct. 15; Gaz. vol. 183; p. 763.
Shoe-protector. K. Nemes. No. 42,212; Feb. 27; Gaz. vol. 175; p. 1071.
Shoe-tree or similar article. J. H. Woodbury. No. 43,076; Sept. 24; Gaz. vol. 182; p. 949.
Show-case. L. A. Vandivir. No. 42,076; Jan. 2; Gaz. vol. 174; p. 270.
Show-case. M. Friedman. No. 42,106; Jan. 23; Gaz. vol. 174; p. 1007.
Sideboard. P. Mindum and L. Heyne. No. 42,842; July 30; Gaz. vol. 180; p. 1375.
Sign. H. J. Leschen. No. 42,636; June 18; Gaz. vol. 179; p. 829.
Sign. C. M. Davis. No. 42,837; July 30; Gaz. vol. 180; p. 1374.
Sign. J. Chapin. No. 42,958; Sept. 3; Gaz. vol. 182; p. 222.
Sign structure, Advertising-. F. S. Bernstein. No. 43,263; Nov. 26; Gaz. vol. 184; p. 1052.
Signs, Reflector for use in illuminated advertising-. H. F. Anderson. No. 42,723; July 9; Gaz. vol. 180; p. 568.
Signaling device and bracket therefor. R. H. Manson. No. 43,053; Sept. 24; Gaz. vol. 182; p. 945.
Silo retaining-stake. F. P. Cory. No. 42,834; July 30; Gaz. vol. 180; p. 1373.
Skate foot-plate, Roller-. H. Runion. No. 43,063; Sept. 24; Gaz. vol. 182; p. 947.
Skirt-gage. R. A. Terry. No. 42,654; June 18; Gaz. vol. 179; p. 831.
Soap box, Toilet-. W. H. Perkins. No. 42,949; Aug. 27; Gaz. vol. 181; p. 1052.
Soap, Cake of. C. Arnone. No. 42,906; Aug. 20; Gaz. vol. 181; p. 797.
Soap-dish. M. L. Ungrich. No. 42,518; May 14; Gaz. vol. 178; p. 570.
Soap-dish. C. Nelson. No. 43,256; Nov. 19; Gaz. vol. 184; p. 784.
Sock or stocking. G. E. Beers. No. 43,351; Dec. 24; Gaz. vol. 185; p. 1025.
Socket-cover. L. W. Andersen. No. 43,133; Oct. 15; Gaz. vol. 183; p. 758.
Sponge-holder. A. C. Gurske. No. 43,038; Sept. 24; Gaz. vol. 182; p. 941.
Spool end, Note-sheet. A. A. Friestedt. No. 43,272; Nov. 26; Gaz. vol. 184; p. 1054.
Spoon. F. M. Van Etten. No. 42,935; Aug. 27; Gaz. vol. 181; p. 1050.
Spoon. C. Levison. No. 42,944; Aug. 27; Gaz. vol. 181; p. 1051.
Spoon, Baby-. E. C. Stuver. No. 43,208; Oct. 29; Gaz. vol. 183; p. 1285.
Spoon, Birth-. G. F. Kolb. No. 42,630; June 18; Gaz. vol. 179; p. 828.
Spoon, fork, or similar article. F. E. Pretat. (Reissue.) No. 13,359; Jan. 9; Gaz. vol. 174; p. 568.
Spoon, fork, or similar article. G. Strohhaker. (Reissue.) No. 13,360; Jan. 9; Gaz. vol. 174; p. 568.
Spoon, fork, or similar article. G. L. Crowell, Jr. No. 42,458; May 7; Gaz. vol. 178; p. 293.
Spoon, fork, or similar article. E. Todd, Jr. No. 42,568; May 28; Gaz. vol. 178; p. 1129.
Spoon, fork, or similar article. W. A. Jameson. Nos. 42,756–7; July 9; Gaz. vol. 180; p. 573.
Spoon, fork, or similar article. G. L. Crowell, Jr. No. 42,836; July 30; Gaz. vol. 180; p. 1374.
Spoon, fork, or similar article. L. A. Brown. No. 42,867; Aug. 13; Gaz. vol. 181; p. 513.
Spoon, fork, or similar article. H. Hillbom. No. 42,966; Sept. 3; Gaz. vol. 182; p. 224.
Spoon, fork, or similar article. A. G. Kintz. No. 42,968; Sept. 3; Gaz. vol. 182; p. 224.
Spoon, fork, or similar article. R. R. Kintz. No. 42,969; Sept. 3; Gaz. vol. 182; p. 224.
Spoon, fork, or similar article. R. Schulze. No. 42,977; Sept. 3; Gaz. vol. 182; p. 226.
Spoon, fork or similar article. R. Schulze. No. 43,022; Sept. 10; Gaz. vol. 182; p. 491.
Spoon, fork, or similar article. E. H. Lohrmann. No. 43,197; Oct. 29; Gaz. vol. 183; p. 1282.
Spoon, fork, or similar article. H. Hillbom. No. 43,279; Nov. 26; Gaz. vol. 184; p. 1056.
Spoon, fork, or similar article. R. Schulze. No. 43,343; Dec. 10; Gaz. vol. 185; p. 508.
Spoon, fork, or similar article. J. Rothlisberger. No. 43,411; Dec. 31; Gaz. vol. 185; p. 1359.
Spoon or fork. W. B. H. Dowse. No. 42,273; Mar. 12; Gaz. vol. 176; p. 499.
Spoon or similar article. W. A. Jameson. No. 42,840; July 30; Gaz. vol. 180; p. 1374.
Spoon, Souvenir-. G. B. Lewis. No. 43,285; Nov. 26; Gaz. vol. 184; p. 1056.
Spoons, forks or similar articles, Handle for. C. Osborne. No. 42,146; Feb. 6; Gaz. vol. 175; p. 242.
Spoons, forks, or similar articles, Handle for. G. N. Allen. No. 42,384; Apr. 9; Gaz. vol. 177; p. 499.
Spoons, forks, or similar articles, Handle for. A. A. Southwick. No. 42,424; Apr. 23; Gaz. vol. 177; p. 1020.
Spoons, forks, or similar articles, Handle for. B. P. Jenks. No. 42,471; May 7; Gaz. vol. 178; p. 295.
Spoons, forks, or similar articles, Handle for. E. H. Lohrmann. No. 42,486; May 7; Gaz. vol. 178; p. 298.
Spoons, forks, or similar articles, Handle for. W. C. Codman. No. 42,729; July 9; Gaz. vol. 180; p. 569.
Spoons, forks, or similar articles, Handle for. C. F. Simms. Nos. 42,775–6; July 9; Gaz. vol. 180; p. 577.
Spoons, forks, or similar articles, Handle for. G. N. Allen. No. 42,988; Sept. 10; Gaz. vol. 182; p. 484.
Spoons, forks, or similar articles, Handle for. W. C. Codman. No. 42,993; Sept. 10; Gaz. vol. 182; p. 485.
Spoons, forks, or similar articles, Handle for. C. Osborne. No. 43,156; Oct. 15; Gaz. vol. 183; p. 763.
Spoons, forks, or similar articles, Handle for. C. Osborne. No. 43,257; Nov. 19; Gaz. vol. 184; p. 785.
Spoons, forks, or similar articles, Handle for. W. C. Codman. No. 43,298; Dec. 3; Gaz. vol. 185; p. 220.
Spoons or analogous articles, Handle for. E. H. Colby. No. 42,663; June 25; Gaz. vol. 179; p. 1079.
Spoons or similar articles, Handle for. B. A. Burns. No. 42,123; Feb. 6; Gaz. vol. 175; p. 238.
Spoons or similar articles, Handle of. J. Mayer. No. 43,286; Nov. 26; Gaz. vol. 184; p. 1057.
Sprocket-wheel. W. H. Kissel. No. 42,629; June 18; Gaz. vol. 179; p. 827.
Spur-body. F. C. Monier. No. 42,489; May 7; Gaz. vol. 178; p. 299.
Stamp, picture, and post-card holder. M. P. Fitzgerald. No. 42,936; Aug. 27; Gaz. vol. 181; p. 1050.
Stand. I. Kraus. No. 42,762; July 9; Gaz. vol. 180; p. 574.
Station-indicator or similar article. M. E. Bates. No. 43,296; Dec. 3; Gaz. vol. 185; p. 220.
Statuette. C. E. Schultze. Nos. 42,261–2; Mar. 5; Gaz. vol. 176; pp. 252–3.
Statuette. E. E. Levett. No. 42,606; June 11; Gaz. vol. 179; p. 551.
Statuette. E. J. McNerney. No. 42,607; June 11; Gaz. vol. 179; p. 551.
Statuette. F. H. Hall. No. 42,624; June 18; Gaz. vol. 179; p. 826.
Statuette. N. A. Carbery. Nos. 43,102–3; Oct. 8; Gaz. vol. 183; p. 480.
Stool leg-brace and foot-ring rest, Combined. E. P. Wanner. No. 42,829; July 23; Gaz. vol. 180; p. 1122.
Store-counter. J. S. Mitchell and S. M. Colburn. No. 42,108; Jan. 23; Gaz. vol. 174; p. 1007.
Stove. J. H. O'Brien. No. 42,176; Feb. 13; Gaz. vol. 175; p. 522.
Stove. T. R. Kennedy and E. J. King. No. 42,329; Mar. 19; Gaz. vol. 176; p. 728.
Stove. W. W. Woods. No. 42,345; Mar. 19; Gaz. vol. 176; p. 731.
Stove. G. Carteng. No. 42,728; July 9; Gaz. vol. 180; p. 569.
Stove. R. Thiem. No. 42,790; July 9; Gaz. vol. 180; p. 579.
Stove. M. R. Lehman. No. 42,806; July 16; Gaz. vol. 180; p. 856.
Stove. P. P. Cooley. No. 42,931; Aug. 27; Gaz. vol. 181; p. 1049.
Stove. L. Kahn. No. 43,002; Sept. 10; Gaz. vol. 182; p. 487.
Stove. S. A. Stellwagen, G. B. Carter, and W. L. Bertram. No. 43,183; Oct. 22; Gaz. vol. 183; p. 1013.
Stove. B. Will. No. 43,184; Oct. 22; Gaz. vol. 183; p. 1013.
Stove, Combined cooking and heating. A. F. Harter. No. 42,803; July 16; Gaz. vol. 180; p. 856.
Stove, Cooking-. C. M. Genthner. No. 42,795; July 16; Gaz. vol. 180; p. 854.
Stove-door. J. A. Alexander and F. K. Berry. Nos. 43,209–10; Nov. 5; Gaz. vol. 184; pp. 261–2.
Stove-front. F. R. Henry. No. 42,393; Apr. 9; Gaz. vol. 177; p. 501.
Stove, Gas-. L. Lebovitz. No. 43,196; Oct. 29; Gaz. vol. 183; p. 1282.
Stove, Gas heating-. J. E. Davis. No. 42,845; Aug. 6; Gaz. vol. 181; p. 245.
Stove, Heating-. A. F. Harter. No. 42,798; July 16; Gaz. vol. 180; p. 855.
Stove, Heating-. A. F. Harter. No. 42,801; July 16; Gaz. vol. 180; p. 855.
Stove-leg. E. B. Sprague. No. 42,652; June 18; Gaz. vol. 179; p. 831.
Stove or range, Cooking. A. K. Beckwith. No. 42,102; Jan. 23; Gaz. vol. 174; p. 1006.
Stove or range leg-base. A. K. Beckwith. No. 42,450; May 7; Gaz. vol. 178; p. 292.
Stove, Reservoir-. L. Stockstrom. No. 42,567; May 28; Gaz. vol. 178; p. 1129.
Strain-insulator. E. E. Schmid. No. 43,342; Dec. 10; Gaz. vol. 185; p. 508.

Alphabetical list of designs—Continued.

Street-light post. G. Schumacher. No. 42,193; Feb. 20; Gaz. vol. 175; p. 824.
Symbol. T. Zakrzewski. No. 42,181; Feb. 13; Gaz. vol. 175; p. 523.
Syringe bag, Fountain-. C. A. Tatum. No. 42,809; July 16; Gaz. vol. 180; p. 857.
Table-centerpiece. P. Szathmary. No. 42,115; Jan. 23; Gaz. vol. 174; p. 1009.
Table top, Operating-. M. Schmidt. No. 42,179; Feb. 13; Gaz. vol. 175; p. 522.
Tack-puller. A. F. Gillet. No. 42,279; Mar. 12; Gaz. vol. 176; p. 499.
Tag. C. C. Fletcher. No. 43,216; Nov. 5; Gaz. vol. 184; p. 263.
Talking-machine cabinet. E. T. Kieffer. Nos. 43,003–6; Sept. 10; Gaz. vol. 182; pp. 487–8.
Talking-machine cabinet. S. M. Wirts. No. 43,293; Nov. 26; Gaz. vol. 184; p. 1058.
Tea or coffee pot or similar article. H. Hillbom. No. 43,219; Nov. 5; Gaz. vol. 184; p. 263.
Teapot. C. L. Casey. No. 42,957; Sept. 3; Gaz. vol. 182; p. 222.
Teapot or similar article. H. C. Kupper. No. 42,565; May 28; Gaz. vol. 178; p. 1128.
Telephonic transmitting-station. E. Lowe, H. W. Haff, and W. P. Andrick. No. 43,198; Oct. 29; Gaz. vol. 183; p. 1283.
Textile edging. J. R. Bux and G. R. Opperman. No. 43,266; Nov. 26; Gaz. vol. 184; p. 1053.
Textile fabric. W. D. Henry. No. 42,812; July 23; Gaz. vol. 180; p. 1119.
Textile fabric. H. T. Loomis. No. 42,816; July 23; Gaz. vol. 180; p. 1120.
Textile fabric or wall-paper. E. Hoch. Nos. 42,813–15; July 23; Gaz. vol. 180; pp. 1119–20.
Textile fabric or wall-paper. E. Munier. Nos. 42,817–21; July 23; Gaz. vol. 180; pp. 1120–1.
Thimble, Sewing-. L. M. Seybold. Nos. 42,978–80; Sept. 3; Gaz. vol. 182; p. 226.
Thumb-wheel protector. W. McCance. No. 42,874; Aug. 13; Gaz. vol. 181; p. 515.
Tire, Automobile-. T. P. Clark. No. 43,033; Sept. 24; Gaz. vol. 182; p. 940.
Tire, Elastic. P. W. Pratt. No. 42,526; May 14; Gaz. vol. 178; p. 571.
Tile-facing. E. Talamini. Nos. 42,404–5; Apr. 9; Gaz. vol. 177; p. 503.
Tire for vehicles, Elastic. W. F. Pfeiffer. No. 42,423; Apr. 23; Gaz. vol. 177; p. 1020.
Tire for vehicles, Elastic. W. F. Pfeiffer. No. 42,772; July 9; Gaz. vol. 180; p. 576.
Tire for vehicles, Elastic. F. H. Jones. No. 43,047; Sept. 24; Gaz. vol. 182; p. 944.
Tire-tread. A. P. Lohmann. Nos. 43,310–11; Dec. 3; Gaz. vol. 185; pp. 222–3.
Tire-tread. B. G. Work. No. 43,332; Dec. 3; Gaz. vol. 185; p. 228.
Tire-tread. W. R. Blowers. No. 43,335; Dec. 10; Gaz. vol. 185; p. 507.
Tire-tread. E. C. Shaw. No. 43,348; Dec. 17; Gaz. vol. 185; p. 808.
Tire-tread. E. C. Shaw. No. 43,412; Dec. 31; Gaz. vol. 185; p. 1359.
Tire tread, Pneumatic-. G. W. Beldam. Nos. 42,103–4; Jan. 23; Gaz. vol. 174; p. 1007.
Toaster, Electrically-heated. E. Schwartz. No. 43,023; Sept. 10; Gaz. vol. 182; p. 491.
Tobacco-pipe. S. Heimberg. No. 42,939; Aug. 27; Gaz. vol. 181; p. 1051.
Toilet-stand. F. G. Hill. No. 42,185; Feb. 20; Gaz. vol. 175; p. 822.
Tool, Combination-. F. Mossberg. No. 42,368; Mar. 26; Gaz. vol. 176; p. 1049.
Tool, Combination-. J. E. C. Jacobsen. No. 42,805; July 16; Gaz. vol. 180; p. 856.
Tool, Combination pocket-. J. G. Cary. No. 43,104; Oct. 8; Gaz. vol. 183; p. 480.
Tool, Combination pocket-. J. G. Cary. No. 43,268; Nov. 26; Gaz. vol. 184; p. 1053.
Tool-handle. E. D. Gilbert. No. 42,321; Mar. 19; Gaz. vol. 176; p. 727.
Towel-dispenser. E. G. Campbell. No. 43,297; Dec. 3; Gaz. vol. 185; p. 220.
Toy. H. Torluemke. No. 42,376; Mar. 26; Gaz. vol. 176; p. 1050.
Toy. R. L. Van Sant. No. 42,681; June 25; Gaz. vol. 179; p. 1083.
Toy Angora poodle-dog. J. W. Berkof. No. 42,497; May 14; Gaz. vol. 178; p. 565.
Toy cat. E. I. Horsman, Jr. No. 42,755; July 9; Gaz. vol. 180; p. 573.
Toy cat. L. Rees. No. 43,017; Sept. 10; Gaz. vol. 182; p. 490.
Toy dog. E. I. Horsman, Jr. No. 42,754; July 9; Gaz. vol. 180; p. 573.
Toy dog. L. Rees. No. 43,016; Sept. 10; Gaz. vol. 182; p. 490.
Toy dog. L. Rees. Nos. 43,018–19; Sept. 10; Gaz. vol. 182; p. 490.
Toy poodle-dog. J. W. Berkof. No. 42,498; May 14; Gaz. vol. 178; p. 566.
Trap. P. D. Hay. No. 43,145; Oct. 15; Gaz. vol. 183; p. 761.
Tray, Coin-. J. H. Astruck. No. 43,261; Nov. 26; Gaz. vol. 184; p. 1052.
Tray, Crumb-. C. Nelson. No. 42,974; Sept. 3; Gaz. vol. 182; p. 226.
Tray, Crumb-. W. B. Garrison. No. 43,403; Dec. 31; Gaz. vol. 185; p. 1357.
Tray, Domino-sugar. A. J. Sanford. No. 43,109; Oct. 8; Gaz. vol. 183; p. 481.
Tray or plate. W. B. Garrison. Nos. 43,299–305; Dec. 3; Gaz. vol. 185; p. 221.
Tray or similar article. C. A. Bennett. No. 42,161; Feb. 13; Gaz. vol. 175; p. 519.
Tube cap, Collapsible-. L. A. D. Gardner. No. 42,504; May 14; Gaz. vol. 178; p. 567.
Tumbler. W. C. Anderson. No. 42,683; July 2; Gaz. vol. 180; p. 291.
Tumbler-holder. E. A. Farr. No. 42,199; Feb. 27; Gaz. vol. 175; p. 1068.
Type, Font of. H. E. Billings. No. 43,215; Nov. 5; Gaz. vol. 184; p. 263.
Type-writer table. S. E. Pearson and B. D. Gorman. No. 42,296; Mar. 12; Gaz. vol. 176; p. 502.
Umbrella, &c., rack. L. Mann. No. 43,246; Nov. 12; Gaz. vol. 184; p. 529.
Vacuum-cleaner. C. L. Goughnour. Nos. 42,747–8; July 9; Gaz. vol. 180; p. 572.
Vacuum-cleaner. E. E. Hershey. No. 42,753; July 9; Gaz. vol. 180; p. 573.
Vacuum-cleaner casing. M. S. Wright. No. 43,295; Nov. 26; Gaz. vol. 184; p. 1058.
Vacuum-cleaner casing or similar article, Electric-. R. H. and J. Morrow. No. 42,973; Sept. 3; Gaz. vol. 182; p. 225.
Vacuum-cleaner frame. R. T. Owen. No. 43,011; Sept. 10; Gaz. vol. 182; p. 489.
Valve. E. B. Wilford. No. 42,314; Mar. 12; Gaz. vol. 176; p. 505.
Valve, Thermostatic. E. S. Caldwell. No. 42,081; Jan. 9; Gaz. vol. 174; p. 569.
Valves, Hand-wheel for. W. L. Osborne. No. 42,770; July 9; Gaz. vol. 180; p. 576.
Vanity-box. A. C. Recker. No. 43,341; Dec. 10; Gaz. vol. 185; p. 508.
Vase. E. O. Simons. Nos. 42,399–402; Apr. 9; Gaz. vol. 177; p. 502.
Vase. E. O. Simons. No. 42,494; May 7; Gaz. vol. 178; p. 300.
Vase. G. H. Janes. No. 42,628; June 18; Gaz. vol. 179; p. 827.
Vase. A. J. Sanford. No. 42,648; June 18; Gaz. vol. 179; p. 830.
Vase. A. J. Sanford. No. 43,206; Oct. 29; Gaz. vol. 183; p. 1285.
Vehicle-body. H. B. Joy. No. 42,074; Jan. 2; Gaz. vol. 174; p. 270.
Vehicle-body. R. S. Richeson. No. 42,075; Jan. 2; Gaz. vol. 174; p. 270.
Vehicle-body. H. E. Kennedy. No. 42,172; Feb. 13; Gaz. vol. 175; p. 521.
Vehicle-body. C. E. J. Lang. No. 42,186; Feb. 20; Gaz. vol. 175; p. 823.
Vehicle-body. O. P. Fritchle. No. 42,278; Mar. 12; Gaz. vol. 176; p. 499.
Vehicle-body. W. H. Douglas. Nos. 42,354–5; Mar. 26; Gaz. vol. 176; p. 1047.
Vehicle-body. H. A. Larmore. No. 42,920; Aug. 20; Gaz. vol. 181; p. 800.
Vehicle-body. C. E. Gibson. No. 42,938; Aug. 27; Gaz. vol. 181; p. 1050.
Vehicle-body. R. H. Wilcox. No. 43,414; Dec. 31; Gaz. vol. 185; p. 1359.
Vehicle body, Motor-. W. E. Storms. No. 43,329; Dec. 3; Gaz. vol. 185; p. 227.
Vehicle-vase. J. E. Marsden. No. 43,224; Nov. 5; Gaz. vol. 184; p. 264.
Vehicles and the like, Wind-shield for motor-. J. M. McQuillan. No. 43,406; Dec. 31; Gaz. vol. 185; p. 1358.
Velocipede. D. H. Gutman. No. 42,916; Aug. 20; Gaz. vol. 181; p. 799.
Vending apparatus, Combined automatic. E. Lissauer. No. 42,395; Apr. 9; Gaz. vol. 177; p. 501.
Vending-machine. R. Robbins. No. 42,592; June 4; Gaz. vol. 179; p. 265.
Vending-machine cabinet. F. C. Whitmore. No. 42,265; Mar. 5; Gaz. vol. 176; p. 253.
Vending-machine casing. W. Millard. No. 42,175; Feb. 13; Gaz. vol. 175; p. 521.
Vending-machine stand. R. Robbins. No. 42,591; June 4; Gaz. vol. 179; p. 265.
Violins or similar stringed instruments, Bridge for. A. O. Goodyear. No. 43,358; Dec. 24; Gaz. vol. 185; p. 1027.
Vulcanizer. A. M. Baugh. No. 43,214; Nov. 5; Gaz. vol. 184; p. 262.
Vulcanizer, Portable. C. F. Adamson. No. 42,721; July 9; Gaz. vol. 180; p. 568.

Alphabetical list of designs—Continued.

Wagon-stake. C. A. Hennicke. No. 43,346; Dec. 17; Gaz. vol. 185; p. 808.
Wall-covering. R. B. Griffin. Nos. 42,129–37; Feb. 6; Gaz. vol. 175; pp. 239–40.
Wall-plate, Oval. L. W. Andersen. No. 43,212; Nov. 5; Gaz. vol. 184; p. 262.
Wall-register. A. O. Jones. No. 43,146; Oct. 15; Gaz. vol. 183; p. 761.
Wardrobe-dresser. R. A. Jennings. No. 42,171; Feb. 13; Gaz. vol. 175; p. 520.
Washrag or towel holder. S. Sternau. No. 43,289; Nov. 26; Gaz. vol. 184; p. 1057.
Watch and holder, Wrist-. L. E. F. Wachter. No. 42,657; June 18; Gaz. vol. 179; p. 832.
Watch, Bracelet-. E. J. Wittmauer. No. 42,449; Apr. 30; Gaz. vol. 177; p. 1275.
Watch-chain charm. S. O. Bigney. No. 42,910; Aug. 20; Gaz. vol. 181; p. 798.
Watch-fob. J. H. Sanders. No. 42,709; July 2; Gaz. vol. 180; p. 295.
Watch-movements, Bridge-plate for. W. H. Ebelhare and J. A. Freund. No. 42,574; June 4; Gaz. vol. 179; p. 262.
Watchcase-bow. H. L. Jeffery. No. 42,918; Aug. 20; Gaz. vol. 181; p. 799.
Water-closet bowl. J. Amisson. No. 42,722; July 9; Gaz. vol. 180; p. 568.
Water-closet seat and cover. B. O. Tilden. No. 42,985; Sept. 3; Gaz. vol. 182; p. 227.
Weighing-bin. P. W. Lawther. No. 43,051; Sept. 24; Gaz. vol. 182; p. 944.
Wheel. C. Mason. No. 42,855; Aug. 6; Gaz. vol. 181; p. 247.
Wheel. W. C. Teasdale, Jr. No. 43,330; Dec. 3; Gaz. vol. 185; p. 227.
Wheel anchorage device, Vehicle-. W. E. Perrine. No. 42,090; Jan. 9; Gaz. vol. 174; p. 571.
Wheel, Traction-. E. M. Wheelock. No. 42,264; Mar. 5; Gaz. vol. 176; p. 253.
Whisk-brooms and similar articles, Holder for. H. Buermann. No. 42,122; Feb. 6; Gaz. vol. 175; p. 238.
Whistle, Chime-. A. Cameron. No. 42,832; July 30; Gaz. vol. 180; p. 1373.
Wire fabric. G. A. Mellon. No. 42,642; June 18; Gaz. vol. 179; p. 829.
Work-stand. M. Unterreiner. No. 42,865; Aug. 6; Gaz. vol. 181; p. 249.
Wrenches, Housing for. J. H. Vinton. No. 42,323; Mar. 19; Gaz. vol. 176; p. 731.

ALPHABETICAL LIST OF TRADE-MARKS.

Abdominal supporter. A. Rockowitz. No. 87,810; Aug. 6; Gaz. vol. 181; p. 262.
Abrasive, detergent, and polishing materials. Wm. Enders Manufacturing Company. No. 87,057; June 25; Gaz. vol. 179; p. 1102.
Abrasive, detergent, and polishing materials, Certain. Adesa & Co. No. 86,501; May 14; Gaz. vol. 178; p. 587.
Abrasive, detergent, and polishing materials, Certain. Standard Oil Leather Dressing Company. No. 86,673; May 21; Gaz. vol. 178; p. 882.
Abrasive powder. Shellash Compound Co. No. 89,207; Nov. 19; Gaz. vol. 184; p. 800.
Acetylene-burners. American Lava Company. No. 85,026; Jan. 23; Gaz. vol. 174; p. 1023.
Acid, Derivatives of salicylic. C. F. Boehringer & Soehne. No. 85,549; Feb. 27; Gaz. vol. 175; p. 1093.
Acids and pharmaceutical preparations, Certain. Société Chimique Des Usines Du Rhône, Anct. Gilliard, P. Monnet & Cartier. No. 88,212; Sept. 3; Gaz. vol. 182; p. 245.
Adding and calculating machines. The Duplex Adding Machine Company. No. 86,792; June 4; Gaz. vol. 179; p. 281.
Adhesive for mending leaks. G. Wilkening. No. 85,022; Jan. 16; Gaz. vol. 174; p. 826.
Adhesive liquid. H. Hohorst. No. 88,679; Oct. 15; Gaz. vol. 183; p. 777.
Adhesives, Certain. Aktiengesellschaft für chemische Produkte, vormals H. Scheidemandel. No. 87,139; July 2; Gaz. vol. 180; p. 315.
Adhesives, Certain. Wm. Wotherspoon, Ltd. No. 87,510; July 16; Gaz. vol. 180; p. 876.
Advertising devices, Printed. W. L. Pyle. No. 86,550; May 14; Gaz. vol. 178; p. 588.
Advertising-machines, Automatic. E. V. Gustavson. No. 87,444; July 16; Gaz. vol. 180; p. 874.
Aeroplane-cloth. The B. F. Goodrich Company. No. 88,485; Sept. 24; Gaz. vol. 182; p. 966.
Agricultural implements and parts thereof. S. R. White's Sons. No. 88,040; Aug. 20; Gaz. vol. 181; p. 817.
Agricultural machines and implements, Certain. New Idea Spreader Co. No. 88,343; Sept. 10; Gaz. vol. 182; p. 506.
Air-brakes and parts thereof. The New York Air Brake Company. No. 86,543; May 14; Gaz. vol. 178; p. 588.
Ale and beer. Bass, Ratcliff & Gretton. No. 88,266; Sept. 10; Gaz. vol. 182; p. 504.
Ale and mineral water, Ginger-. Milwaukee-Waukesha Brewing Company. No. 86,146; Apr. 16; Gaz. vol. 177; p. 766.
Ale and porter. Obermeyer & Liebmann. No. 87,359; July 9; Gaz. vol. 180; p. 598.
Ale, Ginger-. The Chicago Consolidated Bottling Company. No. 84,815; Jan. 9; Gaz. vol. 174; p. 579.
Ale, Ginger-. Kiwassa Lithia Spring Co. No. 84,975; Jan. 16; Gaz. vol. 174; p. 824.
Ale, Ginger-. W. A. Scott. No. 85,884; Mar. 26; Gaz. vol. 176; p. 1066.
Ale, Ginger-. The Chicago Consolidated Bottling Company. No. 86,036; Apr. 9; Gaz. vol. 177; p. 519.
Ale, Ginger-. Sun-Ray Water Co. No. 88,133; Aug. 27; Gaz. vol. 181; p. 1069.
Ale, sarsaparilla, and lemon-soda, Ginger-. The Hygeia Distilled Water Company. No. 88,886; Oct. 29; Gaz. vol. 183; p. 1303.
Alimentary paste. San Antonio Macaroni Factory. No. 88,371; Sept. 10; Gaz. vol. 182; p. 507.
Alloys, Bronze. The Manganese Bronze & Brass Company. No. 85,265; Feb. 6; Gaz. vol. 175; p. 260.
Alloys, Copper and aluminum. Gabriel & Co. No. 85,239; Feb. 6; Gaz. vol. 175; p. 260.
Allspice, cinnamon, pepper, cloves, &c. Obear Drug Co. No. 89,493; Dec. 17; Gaz. vol. 185; p. 825.
Alpaca and mohair piece goods. Joseph Benn & Sons. No. 86,027; Apr. 9; Gaz. vol. 177; p. 519.
Alterative, diuretic, and antacid. William R. Warner and Company. No. 88,606; Oct. 1; Gaz. vol. 183; p. 214.
Aluminum household and kitchen utensils, Certain. The Geo. H. Bowman Co. No. 88,613; Oct. 8; Gaz. vol. 183; p. 499.
Aluminum ware. Invincible Aluminum Company. No. 88,303; Sept. 10; Gaz. vol. 182; p. 505.
Ammonia used for fertilizers, Sulfate of. South Metropolitan Gas Company. No. 88,969; Oct. 29; Gaz. vol. 183; p. 1305.
Ampoules. Eli Lilly and Company. No. 87,780; Aug. 6; Gaz. vol. 181; p. 261.
Amusement devices. Novelty Machine Co. No. 85,476; Feb. 20; Gaz. vol. 175; p. 839.
Anesthetic. R. B. Colvin. No. 88,667; Oct. 15; Gaz. vol. 183; p. 777.
Anesthetics. Redlands Chemical Company. No. 88,024; Aug. 20; Gaz. vol. 181; p. 816.
Animal-traps. Otto Kampfe Mfg. Co. No. 84,779; Jan. 2; Gaz. vol. 174; p. 285.
Animal-traps. Oneida Community. No. 85,371; Feb. 13; Gaz. vol. 175; p. 538.
Anisettes. Bosch & Co. No. 86,271; Apr. 30; Gaz. vol. 177; p. 1291.
Ant-exterminators. E. H. Walsdorf. No. 89,402; Dec. 10; Gaz. vol. 185; p. 521.
Anti-arthriticum. Farbenfabriken of Elberfeld Company. No. 86,049; Apr. 9; Gaz. vol. 177; p. 520.
Anti-arthriticum. Farbwerke vorm. Meister Lucius & Brüning. No. 89,100; Nov. 12; Gaz. vol. 184; p. 545.
Antiphlogistic preparation. E. J. Potts. No. 86,238; Apr. 23; Gaz. vol. 177; p. 1040.
Antipyretic, antineuralgic, and sedative. Farbwerke vorm. Meister Lucius & Brüning. No. 88,478; Sept. 24; Gaz. vol. 182; p. 966.
Antipyretic, antineuralgic, and sedative. Farbwerke vorm. Meister Lucius & Brüning. Nos. 88,562–4; Oct. 1; Gaz. vol. 183; p. 213.
Antiseptic. Lambert Pharmacal Company. No. 85,150; Jan. 30; Gaz. vol. 174; p. 1214.
Antiseptic. The Vanadium Chemical Co. No. 86,254; Apr. 23; Gaz. vol. 177; p. 1040.
Antiseptic and deodorant. H. L. Hoag. No. 88,572; Oct. 1; Gaz. vol. 183; p. 213.
Antiseptic and disinfectant. John Wyeth & Brother. No. 89,318; Dec. 3; Gaz. vol. 185; p. 246.
Antiseptic and germicidal ointments. The Interstate Medical Company. No. 86,805; June 4; Gaz. vol. 179; p. 282.
Antiseptic and remedy for certain diseases, Liquid. E. F. França. No. 85,341; Feb. 13; Gaz. vol. 175; p. 538.
Antiseptic cleaning compound. F. W. Thurston Company. No. 85,524; Feb. 20; Gaz. vol. 175; p. 840.
Antiseptic compounds. Nelson, Baker & Co. No. 87,472; July 16; Gaz. vol. 180; p. 875.
Antiseptic douche. R. A. Hine. No. 86,990; June 18; Gaz. vol. 179; p. 847.
Antiseptic dressing. D. C. Osborn. No. 85,167; Jan. 30; Gaz. vol. 174; p. 1214.
Antiseptic, Internal. Farbwerke vorm. Meister Lucius & Brüning. No. 87,188; July 2; Gaz. vol. 180; p. 316.
Antiseptic mouth, throat, or nose preparations. G. J. Hurwitt. No. 88,885; Oct. 29; Gaz. vol. 183; p. 1302.
Antiseptic solutions. The Mu-Col Company. No. 88,918; Oct. 29; Gaz. vol. 183; p. 1303.
Antiseptic wash and blood-tonic. The Barber Medicine Co. No. 87,714; Aug. 6; Gaz. vol. 181; p. 259.
Antiseptics. D. P. Waldman. No. 86,490; May 7; Gaz. vol. 178; p. 317.
Antiseptics and germicides. L. E. Cash. No. 88,664; Oct. 15; Gaz. vol. 183; p. 777.
Antiseptics, disinfectants, and insecticides. M. H. Oachs. No. 86,235; Apr. 23; Gaz. vol. 177; p. 1040.
Anvils. Söderfors Bruks Aktiebolag. No. 86,104; Apr. 9; Gaz. vol. 177; p. 521.
Aperient, medical, and bath salts. Lak-a-Taka Company. No. 87,637; July 30; Gaz. vol. 180; p. 1288.
Aperients. J. D. Riedel Actien Gesellschaft. No. 88,953; Oct. 29; Gaz. vol. 183; p. 1304.
Apparel, Certain named articles of wearing-. H. E. Frankenberg Company. No. 89,351; Dec. 10; Gaz. vol. 185; p. 520.
Apples, Evaporated. American Trading Company. No. 85,220; Feb. 6; Gaz. vol. 175; p. 259.
Apples, Evaporated. Fontana & Co. No. 89,022; Nov. 5; Gaz. vol. 184; p. 282.
Apples, Fresh. Outcault Advertising Co. Nos. 87,250–1; July 2; Gaz. vol. 180; p. 318.
Apples, Fresh. Simons, Shuttleworth & French Co. No. 87,938; Aug. 13; Gaz. vol. 181; p. 537.
Apples, Fresh. Spokane Valley Orchard & Land Co. No. 89,072; Nov. 5; Gaz. vol. 184; p. 283.
Apples, Fresh. Spokane Valley Orchard & Land Co. No. 89,386; Dec. 10; Gaz. vol. 185; p. 521.
Apples, Fresh. Outcault Advertising Co. No. 89,692; Dec. 31; Gaz. vol. 185; p. 1375.
Aprons and dresses. The W. H. Dean Company. No. 87,731; Aug. 6; Gaz. vol. 181; p. 260.
Arch and ankle supports and wrist-straps. Nathan Anklet Support Co. No. 88,581; Oct. 1; Gaz. vol. 183; p. 214.
Arch supports, Foot-. Regal Shoe Company. No. 85,494; Feb. 20; Gaz. vol. 175; p. 839.

Alphabetical list of trade-marks—Continued.

Arch supports, Instep-. Scholl Manufacturing Company. No. 85,499; Feb. 20; Gaz. vol. 175; p. 840.
Arm-bands and garters. J. J. Hoffman. No. 86,908; June 11; Gaz. vol. 179; p. 568.
Asphalt. Central Commercial Co. No. 85,324; Feb. 13; Gaz. vol. 175; p. 537.
Asphalt. C. W. Saacke. No. 87,372; July 9; Gaz. vol. 180; p. 599.
Asphalt. American Asphaltum & Rubber Co. No. 87,584; July 30; Gaz. vol. 180; p. 1387.
Asphalt, macadam, concrete, and bituminous paving. W. R. Petty. No. 86,934; June 11; Gaz. vol. 179; p. 569.
Atomizers and nebulizers. The De Vilbiss Manufacturing Company. Nos. 87,733–4; Aug. 6; Gaz. vol. 181; p. 260.
Atomizers, nebulizers, and powder-blowers. The De Vilbiss Manufacturing Company. No. 88,554; Oct. 1; Gaz. vol. 183; p. 213.
Audiphones. Globe Ear-Phone Company. No. 86,400; May 7; Gaz. vol. 178; p. 314.
Augers, Earth-. Standard Earth Auger Co. No. 88,030; Aug. 20; Gaz. vol. 181; p. 817.
Automobile-hoods. W. Lamplugh. No. 84,979; Jan. 16; Gaz. vol. 174; p. 824.
Automobile-curtains. Jiffy Auto Curtain Co. No. 88,495; Sept. 24; Gaz. vol. 182; p. 966.
Automobile wind-shields. H. W. Robbins. No. 87,368; July 9; Gaz. vol. 180; p. 599.
Automobiles. The Thomas B. Jeffery Company. Nos. 84,776–7; Jan. 2; Gaz. vol. 174; p. 285.
Automobiles. Hupp Motor Car Co. No. 85,247; Feb. 6; Gaz. vol. 175; p. 260.
Automobiles. J. S. Small. No. 85,622; Feb. 27; Gaz. vol. 175; p. 1095.
Automobiles. R. C. H. Corporation. No. 87,481; July 16; Gaz. vol. 180; p. 875.
Automobiles. The Studebaker Corporation. No. 88,218; Sept. 3; Gaz. vol. 182; p. 245.
Automobiles. Midland Motor Co. No. 88,771; Oct. 22; Gaz. vol. 183; p. 1028.
Automobiles and autotrucks. Ideal Auto Company. No. 86,300; Apr. 30; Gaz. vol. 177; p. 1292.
Automobiles and chassis for automobiles, bicycles, &c. Minerva Motors. No. 87,643; July 30; Gaz. vol. 180; p. 1388.
Automobiles, carriages, carts, wagons, &c. Studebaker Corporation. No. 87,280; July 2; Gaz. vol. 180; p. 319.
Automobiles, motor-boats, and aeroplanes. Metallurgique Motor Co. No. 85,461; Feb. 20; Gaz. vol. 175; p. 838.
Automobiles, Six-passenger torpedo-body. The Thomas B. Jeffery Company. No. 84,749; Jan. 2; Gaz. vol. 174; p. 284.
Automobiles, Six-passenger touring-body. The Thomas B. Jeffery Company. No. 84,750; Jan. 2; Gaz. vol. 174; p. 284.
Automobiles, trucks, &c. Ideal Motor Car Company. No. 89,185; Nov. 19; Gaz. vol. 184; p. 799.
Awning-stripes. Geo. B. Carpenter & Co. No. 86,879; June 11; Gaz. vol. 179; p. 567.
Awnings and tents. F. Stevens. No. 87,496; July 16; Gaz. vol. 180; p. 876.
Axes. Mann Edge Tool Company. No. 89,047; Nov. 5; Gaz. vol. 184; p. 282.
Axes, hammers, gasolene-engines, augers, &c. C. M. McClung & Co. No. 87,645; July 30; Gaz. vol. 180; p. 1389.
Axes, hatchets, adzes, bush-hooks, &c. The Collins Company. No. 89,537; Dec. 24; Gaz. vol. 185; p. 1049.
Axles, Steel carriage, wagon, and buggy. Illinois Iron & Bolt Co. No. 86,992; June 18; Gaz. vol. 179; p. 847.
Bacon and hams. The Rath Packing Company. No. 89,699; Dec. 31; Gaz. vol. 185; p. 1376.
Bacon, ham, lard, and sausage. Louis Pfaelzer & Sons. No. 89,575; Dec. 24; Gaz. vol. 185; p. 1050.
Bagging for baling cotton. American Manufacturing Company. Nos. 85,214–16; Feb. 6; Gaz. vol. 175; p. 259.
Bagging for baling cotton. American Manufacturing Company. No. 87,027; June 25; Gaz. vol. 179; p. 1101.
Bagging for baling cotton. American Manufacturing Company. No. 87,031; June 25; Gaz. vol. 179; p. 1101.
Bags and trunks, Traveling-. Dresdner Reiseutensilien- & Lederwarenfabrik G. L. Lippold. No. 85,331; Feb. 13; Gaz. vol. 175; p. 537.
Bags, Cotton and burlap. American Bag Company. No. 88,225; Sept. 10; Gaz. vol. 182; p. 503.
Bags, vanity and cigarette cases, bric-à-brac, &c., Mesh-. E. Beline. No. 85,032; Jan. 23; Gaz. vol. 174; p. 1023.
Bags, Woven cotton. Harmony Mills. No. 86,723; May 28; Gaz. vol. 178; p. 1148.
Baking-powder. Francis H. Leggett & Co. No. 85,145; Jan. 30; Gaz. vol. 174; p. 1213.
Baking-powder. J. W. Trentman. No. 86,482; May 7; Gaz. vol. 178; p. 316.
Baking-powder. Christie-Collar Mfg. Co. No. 86,786; June 4; Gaz. vol. 179; p. 281.
Baking-powder. Jaques Mfg. Co. No. 86,807; June 4; Gaz. vol. 179; p. 282.
Baking-powder. Heekin Spice Co. No. 88,282; Sept. 10; Gaz. vol. 182; p. 504.
Baking-powder. Burns and Reed. No. 89,093; Nov. 12; Gaz. vol. 184; p. 545.
Baking-powder. A. Boehringer. No. 89,335; Dec. 10; Gaz. vol. 185; p. 519.
Baking-powder and baking-soda. Layton Pure Food Company. No. 87,224; July 2; Gaz. vol. 180; p. 317.
Baking powder and soda. Layton Pure Food Company. No. 89,672; Dec. 31; Gaz. vol. 185; p. 1375.
Ball bladders, toy balloons, &c., Foot-. The Star Rubber Co. No. 89,390; Dec. 10; Gaz. vol. 185; p. 521.
Balls, Foot and basket. A. Taylor. No. 84,767; Jan. 2; Gaz. vol. 174; p. 284.
Balls, gloves, mitts, and masks, Base-. G. Sommers & Co. No. 88,126; Aug. 27; Gaz. vol. 181; p. 1069.
Balls, Golf-. Martins-Birmingham Limited. Nos. 85,757–8; Mar. 12; Gaz. vol. 176; p. 522.
Balls, Golf-. A. G. Spalding & Bros. No. 86,559; May 14; Gaz. vol. 178; p. 588.
Balls, Golf-. Wright & Ditson. No. 87,301; July 2; Gaz. vol. 180; p. 319.
Balls, Golf-. Wright & Ditson. No. 87,390; July 9; Gaz. vol. 180; p. 599.
Balls, Golf-. A. G. Spalding & Bros. No. 87,493; July 16; Gaz. vol. 180; p. 876.
Bandages, Suspensory. The Sanitas Fundoshi Company. No. 86,004; Apr. 2; Gaz. vol. 177; p. 237.
Bathing-suits. J. Pfrenger. Nos. 86,155–7; Apr. 16; Gaz. vol. 177; p. 766.
Bathing-suits. Pelton & Pelton. No. 88,943; Oct. 29; Gaz. vol. 183; p. 1304.
Bats, Base-ball. J. F. Hellerich & Son Co. No. 87,209; July 2; Gaz. vol. 180; p. 317.
Batteries and parts thereof, Primary. Thomas A. Edison, Incorporated. No. 89,543; Dec. 24; Gaz. vol. 185; p. 1049.
Batteries, electric-light lamps, flash-lights, &c., Dry. Alfred Wolff & Co. No. 87,508; July 16; Gaz. vol. 180; p. 876.
Battery plates, Storage-. The Electric Storage Battery Company. No. 87,986; Aug. 20; Gaz. vol. 181; p. 815.
Battery, Therapeutic. The Victory Company. No. 87,950; Aug. 13; Gaz. vol. 181; p. 538.
Bearings, Antifriction roller-. William J. Brewer Engg. Co. No. 89,439; Dec. 17; Gaz. vol. 185; p. 823.
Bearings, Ball-. J. Schaeffers. No. 88,706; Oct. 15; Gaz. vol. 183; p. 778.
Bed-pans. Geo. Borgfeldt & Co. No. 89,091; Nov. 12; Gaz. vol. 184; p. 545.
Beds and mattresses, Spring. Manhattan Bedding Co. No. 87,352; July 9; Gaz. vol. 180; p. 598.
Beds, Canopy-. Co-Ran Bed Company. No. 88,851; Oct. 29; Gaz. vol. 183; p. 1302.
Beds, cribs, cots, couches, &c., Metal. Atlanta Metal Bed Company. No. 87,841; Aug. 13; Gaz. vol. 181; p. 535.
Beds, Davenport-. Capitol City Chair Co. No. 87,521; July 23; Gaz. vol. 180; p. 1133.
Bedspreads and counterpanes. Monument Mills. No. 84,985; Jan. 16; Gaz. vol. 174; p. 824.
Bee-escapes. M. E. Porter. No. 85,614; Feb. 27; Gaz. vol. 175; p. 1095.
Beef and bacon, Smoked. Newark Packing Company. No. 84,990; Jan. 16; Gaz. vol. 174; p. 825.
Beef-broth preparations. American Kitchen Products Company. No. 88,823; Oct. 29; Gaz. vol. 183; p. 1301.
Beef-broth preparations. American Kitchen Products Company. No. 89,527; Dec. 24; Gaz. vol. 185; p. 1049.
Beef-fat and cotton-seed oil. Galban & Co. No. 86,757; May 28; Gaz. vol. 178; p. 1149.
Beer. Centerville Brewing Company. No. 84,936; Jan. 16; Gaz. vol. 174; p. 823.
Beer. Conway Bros. Brewing & Malting Company. No. 85,081; Jan. 30; Gaz. vol. 174; p. 1212.
Beer. Jamestown Brewing Company. No. 85,866; Mar. 26; Gaz. vol. 176; p. 1065.
Beer. Storz Brewing Co. No. 85,886; Mar. 26; Gaz. vol. 176; p. 1066.
Beer. J. Ruppert. No. 86,002; Apr. 2; Gaz. vol. 177; p. 237.
Beer. Victor Neustadtl, Inc. No. 86,149; Apr. 16; Gaz. vol. 177; p. 766.
Beer. Golden West Brewing Company. No. 86,401; May 7; Gaz. vol. 178; p. 314.
Beer. J. Hohenadel. No. 86,708; May 28; Gaz. vol. 178; p. 1148.
Beer. Valentin Blatz Brewing Co. No. 86,842; June 4; Gaz. vol. 179; p. 283.
Beer. Olympia Brewing Co. No. 87,001; June 18; Gaz. vol. 179; p. 847.
Beer. M. L. Eppstein. No. 87,738; Aug. 6; Gaz. vol. 181; p. 260.
Beer. Fresno Brewing Company. No. 87,871; Aug. 13; Gaz. vol. 181; p. 536.
Beer. The Northampton Brewing Co. No. 87,911; Aug. 13; Gaz. vol. 181; p. 537.
Beer. Claussen Brewing Association. No. 87,977; Aug. 20; Gaz. vol. 181; p. 815.
Beer. The Independent Brewing Co. No. 88,756; Oct. 22; Gaz. vol. 183; p. 1028.
Beer. Des Moines Brewing Company. No. 89,014; Nov. 5; Gaz. vol. 184; p. 281.
Beer. East Grand Forks Bwg. Co. No. 89,238; Dec. 3; Gaz. vol. 185; p. 243.

Alphabetical list of trade-marks—Continued.

Beer. Fred Hollender & Co. No. 89,361; Dec. 10; Gaz. vol. 185; p. 520.
Beer. Cream City Brewing Company. No. 89,446; Dec. 17; Gaz. vol. 185; p. 823.
Beer, ale, porter, &c. The West End Brewing Co. No. 85,531; Feb. 20; Gaz. vol. 175; p. 840.
Beer and cherry-punch, Root-. Interstate Commerce Co. No. 88,000; Aug. 20; Gaz. vol. 181; p. 816.
Beer and extract of malt and beer. J. B. Weyerman. No. 87,956; Aug. 13; Gaz. vol. 181; p. 538.
Beer, birch, sarsaparilla, &c., Root-. W. W. Keefer. No. 88,759; Oct. 22; Gaz. vol. 183; p. 1028.
Beer, Lager-. Gottfried Brewing Company. No. 85,740; Mar. 12; Gaz. vol. 176; p. 521.
Beer, Lager-. Jos. Schlitz Brewing Company. No. 87,489; July 16; Gaz. vol. 180; p. 875.
Beer, Lager-. Gottfried Krueger Brewing Company. No. 87,773; Aug. 6; Gaz. vol. 181; p. 261.
Beer, Lager-. Hastings Brewing Co. No. 88,181; Sept. 3; Gaz. vol. 182; p. 244.
Beer, Lager-. The Geo. Zett Brewery. No. 88,820; Oct. 22; Gaz. vol. 183; p. 1029.
Beer, Lager-. Sioux City Brewing Co. No. 89,156; Nov. 12; Gaz. vol. 184; p. 547.
Beeswax. E. A. Bromund Company. No. 87,520; July 23; Gaz. vol. 180; p. 1133.
Bell-ringers, Electrical. U. S. E. M. Co. No. 86,010; Apr. 2; Gaz. vol. 177; p. 237.
Belt-dressing. H. Scott. No. 85,183; Jan. 30; Gaz. vol. 174; p. 1215.
Belt-dressing. The Gandy Belting Company of Baltimore City. No. 85,803; Mar. 19; Gaz. vol. 176; p. 745.
Belt-dressing. G. Rahmann. No. 86,829; June 4; Gaz. vol. 179; p. 282.
Belt-dressings. Kato Products Co. No. 85,592; Feb. 27; Gaz. vol. 175; p. 1094.
Belt-hooks. E. Jenckes Manufacturing Company. No. 86,064; Apr. 9; Gaz. vol. 177; p. 520.
Belts and hose-supporters. M. W. Schloss. No. 86,942; June 11; Gaz. vol. 179; p. 569.
Belts for conveyers, vanners, &c. Robins Conveying Belt Company. No. 88,117; Aug. 27; Gaz. vol. 181; p. 1069.
Belts for men's apparel. Smith Webbing Company. No. 87,940; Aug. 13; Gaz. vol. 181; p. 538.
Belting. Victor-Balata & Textile Belting Co. No. 86,643; May 21; Gaz. vol. 178; p. 881.
Belting, Cotton and balata. James Dawson & Son. No. 84,820; Jan. 9; Gaz. vol. 174; p. 579.
Belting, hose, and lacing, Leather. American Belting & Tanning Co. No. 86,262; Apr. 30; Gaz. vol. 177; p. 1291.
Belting, hose, and machinery packing. E. Z. Jefferson. No. 86,856; June 4; Gaz. vol. 179; p. 283.
Belting, hose, machinery packing, &c. C. A. Daniel. No. 86,516; May 14; Gaz. vol. 178; p. 587.
Belting, hose, machinery packing, and non-metallic tires. Federal Rubber Manufacturing Co. No. 86,795; June 4; Gaz. vol. 179; p. 281.
Belting, hose, machinery packing, and non-metallic tires. N. L. Steinberg. No. 87,121; June 25; Gaz. vol. 179; p. 1103.
Belting, hose, machinery packing, and tires. Revere Rubber Company. No. 86,551; May 14; Gaz. vol. 178; p. 588.
Belting, Leather. J. E. Rhoads & Sons. No. 86,332; Apr. 30; Gaz. vol. 177; p. 1293.
Belting, Leather. Colonial Leather Company. No. 86,385; May 7; Gaz. vol. 178; p. 314.
Belting, Leather. Colonial Leather Company. No. 86,513; May 14; Gaz. vol. 178; p. 587.
Belting, Leather. N. Palmer & Co. No. 86,547; May 14; Gaz. vol. 178; p. 588.
Belting, Leather. Bay State Belting Co. No. 87,314; July 9; Gaz. vol. 180; p. 597.
Belting, Leather power-transmitting. A. C. Laurence. No. 85,142; Jan. 30; Gaz. vol. 174; p. 1213.
Belting, Leather power-transmitting. A. C. Laurence. No. 88,096; Aug. 27; Gaz. vol. 181; p. 1068.
Belting, Machinery-. Pfannmueller Engineering Co. No. 87,921; Aug. 13; Gaz. vol. 181; p. 537.
Belting. Manhattan Rubber Mfg. Co. No. 89,407; Dec. 10; Gaz. vol. 185; p. 521.
Belting, packing, and hose, Leather. American Belting & Tanning Co. No. 85,400; Feb. 20; Gaz. vol. 175; p. 837.
Benzin. Standard Oil Company. No. 86,954; June 11; Gaz. vol. 179; p. 569.
Benzin, naphtha, and gasolene. West India Oil Company. No. 88,543; Sept. 24; Gaz. vol. 182; p. 968.
Benzin, naphtha, and gasolene. Standard Oil Company of New York. No. 89,301; Dec. 3; Gaz. vol. 185; p. 245.
Beverage and syrup for making same. Deacon Brown Manufacturing Company. No. 84,821; Jan. 9; Gaz. vol. 174; p. 579.
Beverage, Carbonated. Bluff City Manufacturing Co. No. 88,159; Sept. 3; Gaz. vol. 182; p. 243.
Beverage, Certain non-alcoholic. The Pepsi-Cola Co. No. 88,356; Sept. 10; Gaz. vol. 182; p. 506.
Beverage having a fruity flavor. Matienzo-Sainz Company. No. 86,607; May 21; Gaz. vol. 178; p. 880.
Beverage, Non-alcoholic. The Cherry-Cheer Company. No. 86,279; Apr. 30; Gaz. vol. 177; p. 1291.
Beverage, Non-alcoholic. M. B. Tisdale. No. 87,019; June 18; Gaz. vol. 179; p. 848.
Beverage, Non-alcoholic. Wm. Corry & Co. No. 88,400; Sept. 17; Gaz. vol. 182; p. 717.
Beverages and syrups therefor. C. J. Howel. No. 89,111; Nov. 12; Gaz. vol. 184; p. 546.
Beverages, Artificially-flavored carbonated non-alcoholic. Crown City Bottling & Syrup Co. No. 88,738; Oct. 22; Gaz. vol. 183; p. 1027.
Beverages, Carbonated. W. Bender Company. No. 89,218; Dec. 3; Gaz. vol. 185; p. 243.
Beverages, Carbonated, &c. F. C. Goodale. No. 89,248; Dec. 3; Gaz. vol. 185; p. 244.
Beverages, Carbonated and syrup. Cunningham Supply Company. No. 87,173; July 2; Gaz. vol. 180; p. 316.
Beverages, Carbonated and syrup. S. Twitchell Company. No. 87,501; July 16; Gaz. vol. 180; p. 876.
Beverages, Certain non-alcoholic. F. G. Klein Co. No. 85,663; Mar. 5; Gaz. vol. 176; p. 269.
Beverages, Certain non-alcoholic. C. W. Campbell. No. 86,277; Apr. 30; Gaz. vol. 177; p. 1291.
Beverages, Certain non-alcoholic. Consumers Company. No. 86,282; Apr. 30; Gaz. vol. 177; p. 1291.
Beverages, Certain non-alcoholic. Compagnie Fermière de l'Établissement Thermal de Vichy. Nos. 87,320–1; July 9; Gaz. vol. 180; p. 597.
Beverages, fruit compounds, and syrups. American Beverage Company. No. 87,585; July 30; Gaz. vol. 180; p. 1387.
Beverages, Non-alcoholic. H. Tüshaus. No. 87,020; June 18; Gaz. vol. 179; p. 848.
Beverages, Non-alcoholic. Ogna & Co. No. 89,288; Dec. 3; Gaz. vol. 185; p. 245.
Bicycles. The Pope Manufacturing Company. No. 86,159; Apr. 16; Gaz. vol. 177; p. 766.
Binders, Loose-leaf. National Blank Book Company. No. 87,649; July 30; Gaz. vol. 180; p. 1389.
Biscuit. National Biscuit Company. Nos. 84,849–50; Jan. 9; Gaz. vol. 174; p. 580.
Biscuit. National Biscuit Company. Nos. 85,981–5; Apr. 2; Gaz. vol. 177; p. 236.
Biscuit. National Biscuit Company. Nos. 86,318–20; Apr. 30; Gaz. vol. 177; p. 1292.
Biscuit. National Biscuit Company. Nos. 86,924–9; June 11; Gaz. vol. 179; pp. 568–9.
Biscuit. National Biscuit Company. No. 87,242; July 2; Gaz. vol. 180; p. 318.
Biscuit. National Biscuit Company. No. 87,356; July 9; Gaz. vol. 180; p. 598.
Biscuit. National Biscuit Company. Nos. 87,467–9; July 16; Gaz. vol. 180; p. 875.
Biscuit. National Biscuit Company. No. 87,648; July 30; Gaz. vol. 180; p. 1137.
Biscuit. National Biscuit Company. No. 87,908; Aug. 13; Gaz. vol. 181; p. 537.
Biscuit. National Biscuit Company. Nos. 88,334–40; Sept. 10; Gaz. vol. 182; p. 506.
Biscuit. National Biscuit Company. Nos. 88,413–14; Sept. 17; Gaz. vol. 182; p. 717.
Biscuit. National Biscuit Company. Nos. 88,922–33; Oct. 29; Gaz. vol. 183; pp. 1303–4.
Biscuit. National Biscuit Company. Nos. 89,487–90; Dec. 17; Gaz. vol. 185; pp. 824–5.
Biscuit. National Biscuit Company. No. 89,572; Dec. 24; Gaz. vol. 185; p. 1050.
Biscuit and sugar wafers. National Biscuit Company. No. 88,333; Sept. 10; Gaz. vol. 182; p. 506.
Biscuit, Cereal. The Shredded Wheat Company. No. 85,186; Jan. 30; Gaz. vol. 174; p. 1215.
Biscuits. National Biscuit Company. Nos. 85,916–17; Mar. 26; Gaz. vol. 176; p. 1067.
Biscuits. Manchester Biscuit Co. No. 86,074; Apr. 9; Gaz. vol. 177; p. 520.
Biscuits. National Biscuit Company. No. 86,077; Apr. 9; Gaz. vol. 177; p. 520.
Biscuits. National Biscuit Company. Nos. 89,133–4; Nov. 12; Gaz. vol. 184; p. 546.
Biscuits. Roman Uhl Nachfolger Josef M. Breunig. No. 89,201; Nov. 19; Gaz. vol. 184; p. 799.
Biscuits, cakes, and cookies. Loose-Wiles Biscuit Company. No. 89,043; Nov. 5; Gaz. vol. 184; p. 282.
Biscuits, Dog-. Spratt's Patent, Limited. No. 87,941; Aug. 13; Gaz. vol. 181; p. 538.
Biscuits, Karlsbad-water. Roman Uhl Nachfolger Josef M. Breünig. No. 88,956; Oct. 29; Gaz. vol. 183; p. 1304.
Bitters. The Old Veteran Bitters Co. No. 85,610; Feb. 27; Gaz. vol. 175; p. 1095.
Bitters. H. Underberg. No. 85,838; Mar. 19; Gaz. vol. 176; p. 746.
Bitters. Union Wholesale Liquor Co. No. 88,034; Aug. 20; Gaz. vol. 181; p. 817.
Bitters, Compound of herb. J. Gretschel. No. 88,673; Oct. 15; Gaz. vol. 183; p. 777.
Bitters, Stomach-. Pond's Bitters Co. No. 88,940; Oct. 29; Gaz. vol. 183; p. 1304.
Bitumen. W. T. Coleman. No. 86,789; June 4; Gaz. vol. 179; p. 281.

Alphabetical list of trade-marks—Continued.

Blankets. A. De Cernea. No. 84,943; Jan. 16; Gaz. vol. 174; p. 823.
Blankets, woolen piece goods, and flannels. Birdsall Brothers Co. No. 89,532; Dec. 24; Gaz. vol. 185; p. 1049.
Bleaching-powder for laundry purposes. The McWhirter Chemical Company. No. 88,542; Sept. 24; Gaz. vol. 182; p. 968.
Bleaching preparations. Henkel & Cie. No. 87,337; July 9; Gaz. vol. 180; p. 598.
Blood-purifier and a remedy for certain diseases. C. Carter. No. 88,551; Oct. 1; Gaz. vol. 183; p. 213.
Blood-purifier and tonic. B. E. Stevens. No. 84,762; Jan. 2; Gaz. vol. 174; p. 284.
Bluing, Laundry. Reckitt & Sons. No. 86,449; May 7; Gaz. vol. 178; p. 315.
Bluing, Laundry. Reckitt & Sons. No. 87,807; Aug. 6; Gaz. vol. 181; p. 262.
Board for interior finish. Paraffine Paint Company. No. 86,325; Apr. 30; Gaz. vol. 177; p. 1292.
Boilers and gas water-heaters, Combination kitchen-. Victor Combination Kitchen Boiler Company. No. 86,843; June 4; Gaz. vol. 179; p. 283.
Boilers, Range-. National Committee of the Confederated Supply Associations. No. 86,542; May 14; Gaz. vol. 178; p. 588.
Boilers. Water-tube. Risdon Iron & Locomotive Works. No. 85,044; Jan. 23; Gaz. vol. 174; p. 1023.
Bonnets, hats, and caps. J. Rostenberg. No. 85,007; Jan. 16; Gaz. vol. 174; p. 825.
Book-cloths. Joseph Bancroft & Sons Co. No. 88,727; Oct. 22; Gaz. vol. 183; p. 1027.
Books. United Ancient Order of Druids. No. 87,503; July 16; Gaz. vol. 180; p. 876.
Books and packages of certain named metal or metallic leaf. F. W. Rauskolb. No. 88,951; Oct. 29; Gaz. vol. 183; p. 1304.
Books, Blank. Kiggins & Tooker Co. No. 86,305; Apr. 30; Gaz. vol. 177; p. 1292.
Books, Cash and expense. W. H. Cleasby. No. 85,078; Jan. 30; Gaz. vol. 174; p. 1211.
Books, Certain named covered and bound. J. G. Shaw Blank Book Company. No. 89,584; Dec. 24; Gaz. vol. 185; p. 1050.
Books, forms, certificates, drafts, &c., Blank. The Siphon Credit System Company. No. 88,526; Sept. 24; Gaz. vol. 182; p. 967.
Books, Sales-. American Sales Book Company. No. 86,263; Apr. 30; Gaz. vol. 177; p. 1291.
Books, Sales-. American Sales Book Company. No. 86,689; May 28; Gaz. vol. 178; p. 1147.
Booklet. O. E. Bennett. No. 87,717; Aug. 6; Gaz. vol. 181; p. 259.
Boot and shoe heel wear-resisting slugs. Atlas Tack Company. No. 88,231; Sept. 10; Gaz. vol. 182; p. 503.
Boot and shoe heels and soles, Protectors for. United Shoe Machinery Company. No. 88,035; Aug. 20; Gaz. vol. 181; p. 817.
Boot and shoe protectors. United Shoe Machinery Company. No. 88,978; Oct. 29; Gaz. vol. 183; p. 1305.
Boots and leather goods, Polishing preparations for. W. Ramsay. No. 85,490; Feb. 20; Gaz. vol. 175; p. 839.
Boots and shoes. Sears, Roebuck and Co. No. 85,502; Feb. 20; Gaz. vol. 175; p. 840.
Boots and shoes. Clark-Hutchinson Company. No. 85,648; Mar. 5; Gaz. vol. 176; p. 269.
Boots and shoes. W. H. McElwain Company. No. 86,311; Apr. 30; Gaz. vol. 177; p. 1292.
Boots and shoes. M. E. Claflin. No. 87,853; Aug. 13; Gaz. vol. 181; p. 535.
Boots and shoes. Green-Wheeler Shoe Co. No. 88,082; Aug. 27; Gaz. vol. 181; p. 1068.
Boots and shoes. Hofheimer Brothers Company. No. 89,259; Dec. 3; Gaz. vol. 185; p. 244.
Boots and shoes and tips therefor. The Tel-Til-Tip Co. No. 86,963; June 11; Gaz. vol. 179; p. 570.
Boots and shoes, Cloth and leather. Florsheim Shoe Company. No. 88,745; Oct. 22; Gaz. vol. 183; p. 1027.
Boots and shoes, Infants' and children's. Paul Brothers. No. 85,831; Mar. 19; Gaz. vol. 176; p. 746.
Boots and shoes, Leather. E. E. Taylor Co. No. 84,768; Jan. 2; Gaz. vol. 174; p. 284.
Boots and shoes, Leather. Lunn & Sweet Shoe Co. No. 84,841; Jan. 9; Gaz. vol. 174; p. 580.
Boots and shoes, Leather. C. W. Strohbeck. No. 84,884; Jan. 9; Gaz. vol. 174; p. 581.
Boots and shoes, Leather. Regal Shoe Company. No. 85,003; Jan. 16; Gaz. vol. 174; p. 825.
Boots and shoes, Leather. Allen-Foster-Willett Co. No. 85,053; Jan. 30; Gaz. vol. 174; p. 1211.
Boots and shoes, Leather. Regal Shoe Company. No. 85,378; Feb. 13; Gaz. vol. 175; p. 539.
Boots and shoes, Leather. Stephen Putney Shoe Company. No. 85,488; Feb. 20; Gaz. vol. 175; p. 839.
Boots and shoes, Leather. Fred F. Field Company. No. 85,736; Mar. 12; Gaz. vol. 176; p. 521.
Boots and shoes, Leather. Roberts, Johnson & Rand Shoe Company. No. 85,996; Apr. 2; Gaz. vol. 177; p. 236.
Boots and Shoes, Leather. Hanan & Son. No. 86,055; Apr. 9; Gaz. vol. 177; p. 520.
Boots and shoes, Leather. G. R. Davis. No. 86,131; Apr. 16; Gaz. vol. 177; p. 765.
Boots and shoes, Leather. Architect Shoe Company. No. 86,266; Apr. 30; Gaz. vol. 177; p. 1291.
Boots and shoes, Leather. Lewis A. Crossett, Inc. No. 86,388; May 7; Gaz. vol. 178; p. 314.
Boots and shoes, Leather. F. M. Hoyt Shoe Company. No. 86,532; May 14; Gaz. vol. 178; p. 588.
Boots and shoes, Leather. Haynes Henson Shoe Company. No. 87,072; June 25; Gaz. vol. 179; p. 1102.
Boots and shoes, Leather. Haynes Henson Shoe Company. No. 87,449; July 16; Gaz. vol. 180; p. 874.
Boots and shoes, Leather. Missouri Shoe Company. No. 87,551; July 23; Gaz. vol. 180; p. 1134.
Boots and shoes, Leather. The Excelsior Shoe Company. No. 87,739; Aug. 6; Gaz. vol. 181; p. 260.
Boots and shoes, Leather. Noyes-Norman Shoe Company. No. 87,912; Aug. 13; Gaz. vol. 181; p. 537.
Boots and shoes, Leather. Green-Wheeler Shoe Co. No. 88,081; Aug. 27; Gaz. vol. 181; p. 1068.
Boots and shoes, Leather. M. J. Mullen. No. 88,329; Sept. 10; Gaz. vol. 182; p. 506.
Boots and shoes, Leather. Haynes Henson Shoe Company. No. 88,749; Oct. 22; Gaz. vol. 183; p. 1027.
Boots and shoes, Leather. Rice & Hutchins. No. 88,952; Oct. 29; Gaz. vol. 183; p. 1304.
Boots and shoes, Leather. Thayer, McNeil & Hodgkins. No. 88,973; Oct. 29; Gaz. vol. 183; p. 1305.
Boots and shoes, Leather. Foot, Schulze & Co. No. 89,641; Dec. 31; Gaz. vol. 185; p. 1374.
Boots and shoes, Leather and rubber. International Shoe Company. No. 88,757; Oct. 22; Gaz. vol. 183; p. 1028.
Boots and shoes, Leather for the uppers of. E. L. White. No. 86,195; Apr. 16; Gaz. vol. 177; p. 767.
Boots and shoes made of leather. Century Shoe Co. No. 85,796; Mar. 19; Gaz. vol. 176; p. 745.
Boots and shoes, Women's. G. Goldsmith. No. 85,961; Apr. 2; Gaz. vol. 177; p. 235.
Boots, shoes, and leggings, Leather. Ellet-Kendall Shoe Company. No. 85,957; Apr. 2; Gaz. vol. 177; p. 235.
Boots, shoes, and rubbers, Heels for. J. H. Graham. No. 89,649; Dec. 31; Gaz. vol. 185; p. 1374.
Boots, shoes, and sandals. The Cahill Shoe Co. No. 85,410; Feb. 20; Gaz. vol. 175; p. 837.
Boots, shoes, and slippers. Edwin C. Burt Company. No. 84,726; Jan. 2; Gaz. vol. 174; p. 283.
Boots, shoes, and slippers. Woodbury Shoe Company. No. 88,041; Aug. 20; Gaz. vol. 181; p. 817.
Boots, shoes, and slippers. Manfield & Sons. No. 88,767; Oct. 22; Gaz. vol. 183; p. 1028.
Boots, shoes, and slippers, Leather. Edwin C. Burt Company. No. 87,160; July 2; Gaz. vol. 180; p. 315.
Boots, shoes, slippers, and stockings. A. Hale. No. 85,345; Feb. 13; Gaz. vol. 175; p. 538.
Boots, shoes, slippers, insoles, &c. V. Benedetti. No. 89,530; Dec. 24; Gaz. vol. 185; p. 1049.
Boring-machine for electric-light wiring. J. G. Henderson. No. 86,706; May 28; Gaz. vol. 178; p. 1147.
Boring-mills and lathes. Bullard Machine Tool Co. No. 87,156; July 2; Gaz. vol. 180; p. 315.
Bottle-caps. Peerless Cork & Seal Co. No. 87,101; June 25; Gaz. vol. 179; p. 1103.
Bottle-washers, milk-pumps, cream ripeners and separators. D. H. Burrell & Company. No. 87,158; July 2; Gaz. vol. 180; p. 315.
Bottles and jars, Vacuum. The Philadelphia Vacuum Specialty Co. No. 89,199; Nov. 19; Gaz. vol. 184; p. 799.
Bottles, Glass. Empire Bottle & Supply Company. No. 84,824; Jan. 9; Gaz. vol. 174; p. 579.
Bottles, Teats for nursing-. F. Schutze. No. 88,596; Oct. 1; Gaz. vol. 183; p. 214.
Bottles, Water-. M. H. Parsons. No. 88,638; Oct. 8; Gaz. vol. 183; p. 500.
Bouillon, Preparation for making. G. Banthien. No. 85,791; Mar. 19; Gaz. vol. 176; p. 745.
Bows for shoes. Shoe City Novelty Co. No. 86,946; June 11; Gaz. vol. 179; p. 569.
Box, Vanity-. Smith, Kline & French Company. No. 85,774; Mar. 12; Gaz. vol. 176; p. 522.
Boxes, Bread-. The Republic Metalware Company. No. 86,450; May 7; Gaz. vol. 178; p. 316.
Boxes, Lunch-. Bryant Box Company. No. 85,793; Mar. 19; Gaz. vol. 176; p. 745.
Bracelets and lockets. Castiglioni Company. No. 87,600; July 30; Gaz. vol. 180; p. 1387.
Bracelets, lockets, pendants, pins, &c. D. A. Hart. No. 89,464; Dec. 17; Gaz. vol. 185; p. 824.
Braids, shoe and corset laces, and galloons. Barthels Mfg. Co. No. 86,690; May 28; Gaz. vol. 178; p. 1147.
Braids, shoe-laces, corset-laces, &c. Barthels Mfg. Co. No. 88,828; Oct. 29; Gaz. vol. 183; p. 1301.
Brake-liners. Empire Tire Company. Nos. 88,172–3; Sept. 3; Gaz. vol. 182; p. 243.
Brandies. A. Mattei. No. 85,977; Apr. 2; Gaz. vol. 177; p. 236.
Brandies. P. Domecq. No. 89,632; Dec. 31; Gaz. vol. 185; p. 1374.
Brandy. Aktieselskabet De Danske Spritfabrikker. No. 89,213; Dec. 3; Gaz. vol. 185; p. 243.

Alphabetical list of trade-marks—Continued.

Brandy, Cherry. P. F. Heering. No. 86,057; Apr. 9; Gaz. vol. 177; p. 520.
Brazing compound. J. D. Ge Bott. No. 85,431; Feb. 20; Gaz. vol. 175; p. 838.
Brazing compounds and fluxes. Baldwin, Tuthill & Bolton. No. 89,435; Dec. 17; Gaz. vol. 185; p. 823.
Bread. E. O. Grover. No. 85,110; Jan. 30; Gaz. vol. 174; p. 1212.
Bread. L. L. Downing. No. 85,651; Mar. 5; Gaz. vol. 176; p. 269.
Bread. G. F. Jefferson. No. 86,063; Apr. 9; Gaz. vol. 177; p. 520.
Bread. Shults Bread Company. No. 86,096; Apr. 9; Gaz. vol. 177; p. 521.
Bread. C. S. Wallin. No. 86,354; Apr. 30; Gaz. vol. 177; p. 1293.
Bread. Federal Milling Company. No. 86,756; May 28; Gaz. vol. 178; p. 1149.
Bread. E. Schmid. No. 86,943; June 11; Gaz. vol. 179; p. 569.
Bread. City Baking Company. Nos. 87,318–19; July 9; Gaz. vol. 180; p. 597.
Bread. E. T. Ramer. No. 87,482; July 16; Gaz. vol. 180; p. 875.
Bread. John English Baking Company. No. 87,613; July 30; Gaz. vol. 180; p. 1388.
Bread. Norman Baking Company. No. 87,910; Aug. 13; Gaz. vol. 181; p. 537.
Bread. S. E. Loveless Advertising Service. No. 88,318; Sept. 10; Gaz. vol. 182; p. 505.
Bread. Schulze Baking Company. No. 88,426; Sept. 17; Gaz. vol. 182; p. 718.
Bread. Wagner Baking Co. No. 88,435; Sept. 17; Gaz. vol. 182; p. 718.
Bread. H. D. Place. No. 88,785; Oct. 22; Gaz. vol. 183; p. 1028.
Bread. Heidland Baking Co. No. 89,256; Dec. 3; Gaz. vol. 185; p. 244.
Bread. C. Pfeffermann. No. 89,696; Dec. 31; Gaz. vol. 185; p. 1376.
Bread and cereal breakfast food. H. A. Woods. No. 89,077; Nov. 5; Gaz. vol. 184; p. 283.
Bread. Unleavened. M. London. No. 88,503; Sept. 24; Gaz. vol. 182; p. 966.
Bread. Wheat-. The Vi-Stix Products Company. No. 87,129; June 25; Gaz. vol. 179; p. 1104.
Brick. The Columbus Brick and Terra Cotta Co. No. 84,941; Jan. 16; Gaz. vol. 174; p. 823.
Brick. Hydraulic Press Brick Co. No. 87,213; July 2; Gaz. vol. 180; p. 317.
Brick, Fire-. Chicago Retort & Fire Brick Co. No. 84,816; Jan. 9; Gaz. vol. 174; p. 579.
Bricks. Western Brick Company. No. 86,013; Apr. 2; Gaz. vol. 177; p. 237.
Bricks. Western Brick Company. No. 86,193; Apr. 16; Gaz. vol. 177; p. 767.
Bricks. The Atlas Portland Cement Company. No. 88,047; Aug. 27; Gaz. vol. 181; p. 1067.
Bricks and blocks. C. N. Miller. No. 87,353; July 9; Gaz. vol. 180; p. 598.
Briquets. Berwind Fuel Company. Nos. 87,718–19; Aug. 6; Gaz. vol. 181; p. 259.
Broaching-machines, planers, boring-machines, &c. Lapointe Machine Tool Co. No. 88,313; Sept. 10; Gaz. vol. 182; p. 505.
Broadcloths. Searles Babbitt Co. No. 88,790; Oct. 22; Gaz. vol. 183; p. 1029.
Bronze alloy. American Manganese Bronze Company. No. 89,598; Dec. 31; Gaz. vol. 185; p. 1373.
Bronze and bronzing liquids. Baer Bros. No. 88,232; Sept. 10; Gaz. vol. 182; p. 503.
Brooms. O. S. Kulman. No. 84,977; Jan. 16; Gaz. vol. 174; p. 824.
Brooms. Enterprise Broom Company. No. 85,336; Feb. 13; Gaz. vol. 175; p. 537.
Brooms. Gardner Broom Company. No. 86,399; May 7; Gaz. vol. 178; p. 314.
Brooms. The Southwestern Broom and Warehouse Co. No. 86,672; May 21; Gaz. vol. 178; p. 882.
Brooms. Zan Bros. No. 87,303; July 2; Gaz. vol. 180; p. 319.
Brooms. Hartman Broom Co. No. 87,446; July 16; Gaz vol. 180; p. 874.
Brooms and brushes. C. M. McClung & Co. No. 86,721; May 28; Gaz. vol. 178; p. 1148.
Brooms, brushes, and dusters. Rennous, Kleinle & Co. No. 87,367; July 9; Gaz. vol. 180; p. 599.
Brush, scraper, mop, and wringer. Combined. Clark & Dupré Wringer Mop Co. No. 85,730; Mar. 12; Gaz. vol. 176; p. 521.
Brushes. Geo. Borgfeldt & Co. Nos. 85,550–1; Feb. 27; Gaz. vol. 175; p. 1093.
Brushes. Bryant, Gore & Bowman Sales Co. No. 87,153; July 2; Gaz. vol. 180; p. 315.
Brushes. Auto Strop Safety Razor Co. No. 88,726; Oct. 22; Gaz. vol. 183; p. 1027.
Brushes and daubers. Shoe-polishing. Shinola Company. No. 87,491; July 16; Gaz. vol. 180; p. 875.
Brushes, Camel's-hair and bristle. Tower Manufacturing & Novelty Co. No. 87,825; Aug. 6; Gaz. vol. 181; p. 262.
Brushes, Certain. The Baltimore Brush Co. No. 87,836; Aug. 6; Gaz. vol. 181; p. 263.
Brushes, dusters, and brooms. Act. Ges. für Bürsten Industrie vormals C. H. Roegner Striegau & D. J. Dukas Freiburg i. B. No. 87,134; July 2; Gaz. vol. 180; p. 315.
Brushes, Hat and clothes. J. C. Dowd & Co. No. 88,668; Oct. 15; Gaz. vol. 183; p. 777.
Brushes, Toilet-. Geo. R. Gibson Co. No. 85,739; Mar. 12; Gaz. vol. 176; p. 521.
Brushes, Tooth-. W. Speer. No. 87,273; July 2; Gaz. vol. 180; p. 319.
Brushes, Tooth-. Lingual Surface Tooth Brush Company. No. 88,186; Sept. 3; Gaz. vol. 182; p. 244.
Building-contract documents. Chicago Architects' Business Association. No. 88,665; Oct. 15; Gaz. vol. 183; p. 777.
Bunting. Annin & Co. No. 86,118; Apr. 16; Gaz. vol. 177; p. 765.
Burgundy. Vercherre & Co. No. 88,720; Oct. 15; Gaz. vol. 183; p. 779.
Bust-reducer or flexible brassières. The Junoform Company. No. 88,306; Sept. 10; Gaz. vol. 182; p. 505.
Butter. S. Pfeifer & Co. No. 84,999; Jan. 16; Gaz. vol. 174; p. 825.
Butter. Kingsley & Smith. No. 86,065; Apr. 9; Gaz. vol. 177; p. 520.
Butter. Detroit Creamery Company. No. 87,326; July 9; Gaz. vol. 180; p. 597.
Butter. Diamond Creamery Co. No. 87,863; Aug. 13; Gaz. vol. 181; p. 535.
Butter. Long's Market Creamery. No. 88,317; Sept. 10; Gaz. vol. 182; p. 505.
Butter. Lutey Bros. No. 88,901; Oct. 29; Gaz. vol. 183; p. 1303.
Butter. P. F. Brown & Company. No. 89,000; Nov. 5; Gaz. vol. 184; p. 281.
Butter. Lauderbach-Barber Co. No. 89,037; Nov. 5; Gaz. vol. 184; p. 282.
Butter. The L. C. Bates Co. No. 89,328; Dec. 10; Gaz. vol. 185; p. 519.
Butter and eggs. E. Rueb & Co. No. 84,877; Jan. 9; Gaz. vol. 174; p. 581.
Butter, eggs, vegetables, fruits, &c. Grand View Farms Produce Company. No. 87,205; July 2; Gaz. vol. 180; p. 317.
Button-cards. Davenport Pearl Button Company. No. 87,860; Aug. 13; Gaz. vol. 181; p. 535.
Button-fasteners. S. L. Sneierson. No. 88,967; Oct. 29; Gaz. vol. 183; p. 1305.
Button-fasteners for dresses and gloves, Spring. Petzold & Mäser, Julius Ambronn, Nachf. No. 86,614; May 21; Gaz. vol. 178; p. 880.
Buttons. G. A. Lippincott. No. 84,839; Jan. 9; Gaz. vol. 174; p. 580.
Buttons. Marshall Field & Company. No. 86,050; Apr. 9; Gaz. vol. 177; p. 520.
Buttons. German-American Button Co. No. 87,443; July 16; Gaz. vol. 180; p. 874.
Buttons. Borel et Grange. No. 89,336; Dec. 10; Gaz. vol. 185; p. 519.
Buttons and parts of buttons. Defiance Button Machine Co. No. 87,984; Aug. 20; Gaz. vol. 181; p. 815.
Buttons, Collar-. Back-Rack Collar Button Co. No. 88,451; Sept. 24; Gaz. vol. 182; p. 965.
Buttons of precious metal, Collar-. Stern Bros. & Company. No. 85,385; Feb. 13; Gaz. vol. 175; p. 539.
Buttons, Pearl. W. Kral & Co. No. 84,976; Jan. 16; Gaz. vol. 174; p. 824.
Buttons, Snap-. Waldes & Co. No. 89,401; Dec. 10; Gaz. vol. 185; p. 521.
Buttons used as garment-fasteners, Snap-. Waldes & Cie. No. 86,648; May 21; Gaz. vol. 178; p. 881.
Cabinets, cupboards, closets, and tables. Hoosier Manufacturing Company. No. 84,831; Jan. 9; Gaz. vol. 174; p. 580.
Cabinets, cupboards, closets, and tables, Kitchen-. G. I. Sellers & Sons Company. No. 88,374; Sept. 10; Gaz. vol. 182; p. 507.
Cable and rope fillers. The Ironsides Company. Nos. 88,574–5; Oct. 1; Gaz. vol. 183; p. 214.
Cake-mold. A. A. Steele. No. 88,599; Oct. 1; Gaz. vol. 183; p. 214.
Cakes. The B. & C. Baking Co. No. 86,655; May 21; Gaz. vol. 178; p. 881.
Calcimine. The Muralo Company. No. 86,725; May 28; Gaz. vol. 178; p. 1148.
Calcimine. A. Wilhelm Company. No. 87,697; July 30; Gaz. vol. 180; p. 1390.
Calcimine, Cold-water. Liberty Paint Company. No. 86,858; June 4; Gaz. vol. 179; p. 283.
Calcimine, Hot-water. Liberty Paint Company. No. 87,350; July 9; Gaz. vol. 180; p. 598.
Calcimines. M. E. Fox & Co. No. 87,062; June 25; Gaz. vol. 179; p. 1102.
Calculating and adding machines. Grimme, Natalis & Co. Commanditgesellschaft auf Actien. No. 87,990; Aug. 20; Gaz. vol. 181; p. 815.
Calculating-machines. Grimme, Natalis & Co. Commanditgesellschaft auf Actien. No. 87,991; Aug. 20; Gaz. vol. 181; p. 816.

Alphabetical list of trade-marks—Continued.

Calculating-machines. Ges. für Präcisions Technik m. b. H. No. 89,106; Nov. 12; Gaz. vol. 184; p. 545.
Calendar-pads, files, and paper-weights. Hale Specialty Co. No. 88,278; Sept. 10; Gaz. vol. 182; p. 504.
Calendars. Dodge Publishing Company. Nos. 84,945–6; Jan. 16; Gaz. vol. 174; p. 823.
Calendars. Stone Printing & Mfg. Co. No. 85,386; Feb. 13; Gaz. vol. 175; p. 539.
Calendars. Dodge Publishing Company. Nos. 86,894–5; June 11; Gaz. vol. 179; p. 568.
Calfskin, known in the trade as kip, and cowhide. A. C. Lawrence Leather Co. No. 87,776; Aug. 6; Gaz. vol. 181; p. 261.
Calfskins. W. Eitingon. No. 85,802; Mar. 19; Gaz. vol. 176; p. 745.
Cambrics, linens, and muslins. M. P. Tuttle Company. Nos. 86,352–3; Apr. 30; Gaz. vol. 177; p. 1293.
Cambrics, sheeting, shirting, muslin, &c. Garner Print Works & Bleachery. No. 84,903; Jan. 9; Gaz. vol. 174; p. 582.
Camera bulb outfits. Star Rubber Co. No. 89,073; Nov. 5; Gaz. vol. 184; p. 283.
Candied fruits and peels. P. & F. Vincentelli & Company. No. 85,841; Mar. 19; Gaz. vol. 176; p. 746.
Candies. H. F. Roberts. No. 85,006; Jan. 16; Gaz. vol. 174; p. 825.
Candies. Singer Brothers. No. 85,187; Jan. 30; Gaz. vol. 174; p. 1215.
Candies. Windsor Chocolate Company. No. 85,533; Feb. 20; Gaz. vol. 175; p. 841.
Candies. M. M. Johannsen Candy Co. No. 86,759; May 28; Gaz. vol. 178; p. 1149.
Candies. N. L. Towle. No. 87,124; June 25; Gaz. vol. 179; p. 1103.
Candies. New York & London Drug Co. No. 87,653; July 30; Gaz. vol. 180; p. 1389.
Candies. The Walter M. Lowney Company. No. 87,898; Aug. 13; Gaz. vol. 181; p. 536.
Candies. The Sterling Chocolate Company. Nos. 88,216–17; Sept. 3; Gaz. vol. 182; p. 245.
Candies. Brazier Brothers Company. No. 88,236; Sept. 10; Gaz. vol. 182; p. 503.
Candies. L. J. Christopher. No. 88,844; Oct. 29; Gaz. vol. 183; p. 1301.
Candies. Gallanis Bros. No. 88,867; Oct. 29; Gaz. vol. 183; p. 1302.
Candies and chocolates. A. Berkowitz. No. 87,147; July 2; Gaz. vol. 180; p. 315.
Candies and chocolates. Wallace & Co. Nos. 89,722–4; Dec. 31; Gaz. vol. 185; p. 1376.
Candies, Chocolate. Paul F. Beich Company. No. 86,374; May 7; Gaz. vol. 178; p. 313.
Candies, Chocolate. Aktien-Gesellschaft Vereinigte Berner & Zürcher Chocolade-Fabriken Lindt & Sprüngli. No. 87,306; July 9; Gaz. vol. 180; p. 597.
Candy. United Drug Co. No. 84,889; Jan. 9; Gaz. vol. 174; p. 581.
Candy. Hudson's. No. 84,966; Jan. 16; Gaz. vol. 174; p. 824.
Candy. F. G. Jensen. No. 85,131; Jan. 30; Gaz. vol. 174; p. 1213.
Candy. The Pallas Candy Co. No. 85,168; Jan. 30; Gaz. vol. 174; p. 1214.
Candy. Speck Chocolate Company. No. 85,510; Feb. 20; Gaz. vol. 175; p. 840.
Candy. F. B. Washburn & Co. No. 85,697; Mar. 5; Gaz. vol. 176; p. 270.
Candy. Maatschappij tot Exploitatie van Rademaker's Koninklijkes Cacao & Chocoladefabrieken. No. 85,756; Mar. 12; Gaz. vol. 176; p. 522.
Candy. Windsor Chocolate Company. No. 85,784; Mar. 12; Gaz. vol. 176; p. 523.
Candy. L. B. Worrell. No. 85,842; Mar. 19; Gaz. vol. 176; p. 746.
Candy. Windsor Chocolate Company. No. 85,933; Mar. 26; Gaz. vol. 176; p. 1067.
Candy. The National Candy Company. No. 86,435; May 7; Gaz. vol. 178; p. 315.
Candy. Johnson Biscuit Company. No. 86,596; May 21; Gaz. vol. 178; p. 880.
Candy. W. S. Trowbridge. No. 87,127; June 25; Gaz. vol. 179; p. 1104.
Candy. Hopkins Co. No. 87,211; July 2; Gaz. vol. 180; p. 317.
Candy. Quaker City Chocolate and Confectionery Company. No. 87,656; July 30; Gaz. vol. 180; p. 1389.
Candy. Harris Woodson Co. No. 87,885; Aug. 13; Gaz. vol. 181; p. 536.
Candy. The Ohio Confection Co. No. 87,914; Aug. 13; Gaz. vol. 181; p. 537.
Candy. Maldurmin Importing Co. No. 88,099; Aug. 27; Gaz. vol. 181; p. 1068.
Candy. American Candy Mfg. Co. No. 88,226; Sept. 10; Gaz. vol. 182; p. 503.
Candy. C. A. Crane. No. 88,243; Sept. 10; Gaz. vol. 182; p. 503.
Candy. Roach, Tisdale & Co. No. 88,363; Sept. 10; Gaz. vol. 182; p. 507.
Candy. A. F. Chevalier. No. 88,398; Sept. 17; Gaz. vol. 182; p. 717.
Candy. Blanke-Wenneker Candy Co. No. 88,834; Oct. 29; Gaz. vol. 183; p. 1301.
Candy. Davidson Brothers Company. No. 88,853; Oct. 29; Gaz. vol. 183; p. 1302.
Candy. C. N. Miller. No. 88,913; Oct. 29; Gaz. vol. 183; p. 1303.
Candy. The Mirror. No. 88,914; Oct. 29; Gaz. vol. 183; p. 1303.
Candy. Novelty Candy Company. No. 88,937; Oct. 29; Gaz. vol. 183; p. 1304.
Candy. The Upjohn Company. No. 88,979; Oct. 29; Gaz. vol. 183; p. 1305.
Candy. G. W. Loft. No. 89,123; Nov. 12; Gaz. vol. 184; p. 546.
Candy. C. A. Crane. Nos. 89,339–40; Dec. 10; Gaz. vol. 185; p. 519.
Candy. Novelty Candy Co. No. 89,415; Dec. 10; Gaz. vol. 185; p. 521.
Candy. Mason, Au and Magenheimer Confectionery Manufacturing Company. No. 89,680; Dec. 31; Gaz. vol. 185; p. 1375.
Candy and candied popcorn. Aubuchon-Garneau Candy Company. No. 85,056; Jan. 30; Gaz. vol. 174; p. 1211.
Candy and chocolates. Hess Brothers. No. 86,907; June 11; Gaz. vol. 179; p. 568.
Candy, Chocolate. Dilling & Company. No. 88,856; Oct. 29; Gaz. vol. 183; p. 1302.
Candy, chocolate, cocoa, preserved fruit, and nuts. Powell's. No. 87,923; Aug. 13; Gaz. vol. 181; p. 537.
Candy figs. Bishop & Company. No. 88,833; Oct. 29; Gaz. vol. 183; p. 1301.
Candy lozenges. C. A. Briggs Co. No. 85,066; Jan. 30; Gaz. vol. 174; p. 1211.
Candy, Peanut-. Harris Woodson Co. No. 88,989; Oct. 29; Gaz. vol. 183; p. 1305.
Candy whistles. Edwin E. Kraushar Co. No. 85,259; Feb. 6; Gaz. vol. 175; p. 260.
Candles. Howe & French. No. 87,629; July 30; Gaz. vol. 180; p. 1388.
Candles, stearin, olein. Société Anonyme de la Stéarinerie H. Bollinckx en liquidation. No. 89,709; Dec. 31; Gaz. vol. 185; p. 1376.
Cane, parasol, and umbrella tip protector. A. Pozzi. No. 86,329; Apr. 30; Gaz. vol. 177; p. 1293.
Canned and preserved fruits. Libby, McNeill & Libby. No. 88,316; Sept. 10; Gaz. vol. 182; p. 505.
Canned chillies, pimentos, and chilli sauce. E. C. Ortega. Nos. 85,677–8; Mar. 5; Gaz. vol. 176; p. 270.
Canned chop-soy. Vette & Zuncker. No. 86,968; June 11; Gaz. vol. 179; p. 570.
Canned corn. The Illinois Canning Company. No. 84,967; Jan. 16; Gaz. vol. 174; p. 824.
Canned corn. P. Hohenadel Jr. Canning Company. Nos. 85,120–1; Jan. 30; Gaz. vol. 174; p. 1213.
Canned corn. P. Hohenadel Jr. Canning Company. No. 85,124; Jan. 30; Gaz. vol. 174; p. 1213.
Canned corn. The Illinois Canning Company. Nos. 85,248–51; Feb. 6; Gaz. vol. 175; p. 260.
Canned corn. The Illinois Canning Company. No. 85,443; Feb. 20; Gaz. vol. 175; p. 838.
Canned corn. H. P. Strasbaugh. No. 89,302; Dec. 3; Gaz. vol. 185; p. 245.
Canned crabs. K. Wakana. No. 86,012; Apr. 2; Gaz. vol. 177; p. 237.
Canned crabs, shrimps, and abalone. North American Mercantile Co. Nos. 88,417–18; Sept. 17; Gaz. vol. 182; p. 717.
Canned fish. Southern California Fish Company. No. 85,017; Jan. 16; Gaz. vol. 174; p. 825.
Canned fish, Certain named. The George & Barker Co. No. 88,271; Sept. 10; Gaz. vol. 182; p. 504.
Canned foods, Certain. McCord-Kistler Mer. Co. No. 88,905; Oct. 29; Gaz. vol. 183; p. 1303.
Canned fruits. Sökeland Gebr. No. 84,882; Jan. 9; Gaz. vol. 174; p. 581.
Canned fruits. Central California Canneries. No. 85,071; Jan. 30; Gaz. vol. 174; p. 1211.
Canned fruits. H. G. Prince & Company. Nos. 85,286–7; Feb. 6; Gaz. vol. 175; p. 261.
Canned fruits. Central California Canneries. No. 85,647; Mar. 5; Gaz. vol. 176; p. 269.
Canned fruits. Central California Canneries. No. 85,729; Mar. 12; Gaz. vol. 176; p. 521.
Canned fruits. The Johnson-Locke Mercantile Co. No. 86,303; Apr. 30; Gaz. vol. 177; p. 1292.
Canned fruits. The Johnson-Locke Mercantile Co. No. 86,597; May 21; Gaz. vol. 178; p. 880.
Canned fruits and vegetables. California Fruit Canners Association. No. 84,813; Jan. 9; Gaz. vol. 174; p. 579.
Canned fruits and vegetables. Frederick City Packing Company. No. 85,653; Mar. 5; Gaz. vol. 176; p. 269.
Canned fruits and vegetables. R. W. Rice. No. 85,683; Mar. 5; Gaz. vol. 176; p. 270.
Canned fruits and vegetables. The McGowan Bros. Company. No. 85,978; Apr. 2; Gaz. vol. 177; p. 236.
Canned fruits and vegetables. W. F. Assau Canning Co. No. 86,764; May 28; Gaz. vol. 178; p. 1149.
Canned fruits and vegetables. California Canneries Co. No. 87,848; Aug. 13; Gaz. vol. 181; p. 535.

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Canned fruits and vegetables. Everett & Treadwell Co. No. 87,867; Aug. 13; Gaz. vol. 181; p. 536.
Canned fruits and vegetables. Hunt Bros. Company. No. 87,890; Aug. 13; Gaz. vol. 181; p. 536.
Canned fruits and vegetables. Seeman Brothers. No. 87,935; Aug. 13; Gaz. vol. 181; p. 537.
Canned fruits and vegetables. W. F. Assau Canning Co. No. 88,046; Aug. 27; Gaz. vol. 181; p. 1067.
Canned fruits and vegetables. W. H. Harris Grocery Co. No. 88,280; Sept. 10; Gaz. vol. 182; p. 504.
Canned fruits and vegetables. Nalley Grocery Co. No. 88,920; Oct. 29; Gaz. vol. 183; p. 1303.
Canned fruits and vegetables and cheese. Goldberg, Bowen & Co. No. 85,107; Jan. 30; Gaz. vol. 174; p. 1212.
Canned fruits and vegetables and fruit jams and jellies. Code Portwood Canning Co. No. 88,848; Oct. 29; Gaz. vol. 183; p. 1301.
Canned fruits, preserved fruits, and canned vegetables. The Coast Products Company. No. 86,207; Apr. 23; Gaz. vol. 177; p. 1039.
Canned fruits, vegetables, and fish, spices, and macaroni. Sprague, Warner & Company. No. 85,692; Mar. 5; Gaz. vol. 176; p. 270.
Canned fruits, vegetables, and pork and beans. Haas-Lieber Grocery Company. No. 85,111; Jan. 30; Gaz. vol. 174; p. 1212.
Canned fruits, vegetables, and salmon, dried currants, and raisins. A. Lowry & Bro. No. 85,665; Mar. 5; Gaz. vol. 176; p. 269.
Canned fruits, vegetables, and sauer-kraut. S. E. Comstock & Co. No. 85,416; Feb. 20; Gaz. vol. 175; p. 837.
Canned fruits, vegetables, fish, soups, and spices. Park, Grant and Morris. No. 87,100; June 25; Gaz. vol. 179; p. 1103.
Canned fruits, vegetables, salmon, and hominy. Diehm-Fansler Grocer Co. No. 85,954; Apr. 2; Gaz. vol. 177; p. 235.
Canned goods, Certain named. The J. M. Paver Company. No. 88,419; Sept. 17; Gaz. vol. 182; p. 717.
Canned goods, Certain named. Schwabacher Bros. & Co. No. 89,070; Nov. 5; Gaz. vol. 184; p. 283.
Canned kidney-beans. The Illinois Canning Company. No. 88,302; Sept. 10; Gaz. vol. 182; p. 505.
Canned kraut and boiled cabbage. P. Hohenadel Jr. Canning Company. No. 85,119; Jan. 30; Gaz. vol. 174; p. 1213.
Canned oysters. Rice Bros. Packing Co. No. 86,453; May 7; Gaz. vol. 178; p. 316.
Canned oysters, shrimps, &c. Biloxi Canning Co. of Louisiana. No. 85,061; Jan. 30; Gaz. vol. 174; p. 1211.
Canned pears. Dooley, Smith & Company. No. 86,659; May 21; Gaz. vol. 178; p. 881.
Canned pears. Dooley, Smith & Company. No. 86,896; June 11; Gaz. vol. 179; p. 568.
Canned pears. Dooley, Smith & Company. No. 87,435; July 16; Gaz. vol. 180; p. 874.
Canned peas. Grand River Canning Company. No. 87,333; July 9; Gaz. vol. 180; p. 598.
Canned peas and corn. P. Hohenadel Jr. Canning Company. Nos. 85,122–3; Jan. 30; Gaz. vol. 174; p. 1213.
Canned peas and corn. Dutch Canning & Pickling Co. No. 89,018; Nov. 5; Gaz. vol. 184; p. 281.
Canned peas, corn, and peaches. Austin, Nichols & Co. No. 87,405; July 16; Gaz. vol. 180; p. 873.
Canned pineapple. Theo. H. Davies & Company. No. 84,819; Jan. 9; Gaz. vol. 174; p. 579.
Canned pineapple. Hawaiian Pineapple Co. No. 85,113; Jan. 30; Gaz. vol. 174; p. 1212.
Canned pineapples. Hawaiian Pineapple Co. No. 84,829; Jan. 9; Gaz. vol. 174; p. 580.
Canned pineapples. Haiku Fruit & Packing Co. No. 85,437; Feb. 20; Gaz. vol. 175; p. 838.
Canned pineapples. Haiku Fruit & Packing Co. No. 88,408; Sept. 17; Gaz. vol. 182; p. 717.
Canned salmon. Alaska Packers Association. No. 85,720; Mar. 12; Gaz. vol. 176; p. 521.
Canned salmon. Hawk Fish Company. No. 85,746; Mar. 12; Gaz. vol. 176; p. 521.
Canned salmon. Pacific American Fisheries. Nos. 86,084–5; Apr. 9; Gaz. vol. 177; p. 521.
Canned salmon. Taku Canning & Cold Storage Co. Nos. 86,346–9; Apr. 30; Gaz. vol. 177; p. 1293.
Canned salmon. Alaska Fish Co. No. 86,864; June 11; Gaz. vol. 179; p. 567.
Canned salmon. Grossfeld and Roe Company. No. 86,903; June 11; Gaz. vol. 179; p. 568.
Canned salmon. Apex Fish Company. No. 87,032; June 25; Gaz. vol. 179; p. 1101.
Canned salmon. Tee Harbor Packing Co. Nos. 87,882–3; Aug. 13; Gaz. vol. 181; p. 536.
Canned salmon. Seldovia Salmon Company. No. 87,962; Aug. 13; Gaz. vol. 181; p. 538.
Canned salmon. Kelley-Clarke Co. No. 88,307; Sept. 10; Gaz. vol. 182; p. 505.
Canned salmon. Tee Harbor Packing Co. No. 88,385; Sept. 10; Gaz. vol. 182; p. 507.
Canned salmon. Astoria & Puget Sound Canning Co. Nos. 88,446–7; Sept. 24; Gaz. vol. 182; p. 965.
Canned salmon. Alaska Fish Co. No. 88,821; Oct. 29; Gaz. vol. 183; p. 1301.
Canned salmon. Astoria & Puget Sound Canning Co. No. 88,826; Oct. 29; Gaz. vol. 183; p. 1301.
Canned salmon. Canoe Pass Packing Company. Nos. 89,003–6; Nov. 5; Gaz. vol. 184; p. 281.
Canned salmon. Lindenberger Packing Co. Nos.89,039–41; Nov. 5; Gaz. vol. 184; p. 282.
Canned salmon. Geo. W. Sanborn & Son. No. 89,066; Nov. 5; Gaz. vol. 184; p. 283.
Canned salmon. Astoria & Puget Sound Canning Co. No. 89,432; Dec. 17; Gaz. vol. 185; p. 823.
Canned salmon. Gorman & Company. No. 89,458; Dec. 17; Gaz. vol. 185; p. 824.
Canned salmon. Pacific Fisheries & Packing Company. No. 89,495; Dec. 17; Gaz. vol. 185; p. 825.
Canned salmon. Astoria & Puget Sound Canning Co. No. 89,605; Dec. 31; Gaz. vol. 185; p. 1373.
Canned salmon. Carlisle Packing Co. Nos. 89,620–2; Dec. 31; Gaz. vol. 185; p. 1373.
Canned sardines. Société Anonyme R. Béziers & Cie. No. 87,492; July 16; Gaz. vol. 180; p. 875.
Canned sardines. Seacoast Canning Company. Nos. 89,149–51; Nov. 12; Gaz. vol. 184; p. 547.
Canned sugar-corn. H. P. Strasbaugh. No. 88,971; Oct. 29; Gaz. vol. 183; p. 1305.
Canned tomatoes. Hobbs Mfg. Co. No. 85,118; Jan. 30; Gaz. vol. 174; p. 1213.
Canned tomatoes. The Holland-Council Company. No. 85,125; Jan. 30; Gaz. vol. 174; p. 1213.
Canned tomatoes. A. Ascione & Company. No. 85,724; Mar. 12; Gaz. vol. 176; p. 521.
Canned vegetables. T. Roberts & Co. No. 84,876; Jan. 9; Gaz. vol. 174; p. 581.
Canned vegetables. C. W. Baker. No. 85,058; Jan. 30; Gaz. vol. 174; p. 1211.
Canned vegetables. J. De Pooter. No. 85,088; Jan. 30; Gaz. vol. 174; p. 1212.
Canned vegetables. Kokomo Canning Company. No. 85,138; Jan. 30; Gaz. vol. 174; p. 1213.
Canned vegetables. Goldberg, Bowen & Co. No. 85,433; Feb. 20; Gaz. vol. 175; p. 838.
Canned vegetables. Colt and Dixon Packing and Manufacturing Company of Frederick, Maryland. No. 85,797; Mar. 19; Gaz. vol. 176; p. 745.
Canned vegetables. Fogg & Hires Company. No. 86,660; May 21; Gaz. vol. 178; p. 881.
Canned vegetables. Grand River Canning Company. No. 87,066; June 25; Gaz. vol. 179; p. 1102.
Canned vegetables. S. E. Comstock. No. 88,063; Aug. 27; Gaz. vol. 181; p. 1067.
Canned vegetables. The Forest City Canning Co. No. 88,480; Sept. 24; Gaz. vol. 182; p. 966.
Canned vegetables. J. H. Goeser. No. 89,023; Nov. 5; Gaz. vol. 184; p. 282.
Canned vegetables and coffee. Stetson-Barret Co. No. 85,293; Feb. 6; Gaz. vol. 175; p. 261.
Canned vegetables and fruits. Nalley Grocery Co. No. 84,989; Jan. 16; Gaz. vol. 174; p. 825.
Canned vegetables and fruits. Egypt Canning Company. No. 88,861; Oct. 29; Gaz. vol. 183; p. 1302.
Canned vegetables, fruits, prepared wheat-flour, and prepared pancake-flour. Acker, Merrall & Condit Company. No. 86,861; June 11; Gaz. vol. 179; p. 567.
Cans, Metal and paper. Detroit Can Company. No. 88,251; Sept. 10; Gaz. vol. 182; p. 503.
Cans, Milk and cream. Plymouth Creamery Company. No. 85,374; Feb. 13; Gaz. vol. 175; p. 538.
Canvas. B. Kuppenheimer & Co. No. 84,837; Jan. 9; Gaz. vol. 174; p. 580.
Canvas. M. Simiansky & Co. No. 86,170; Apr. 16; Gaz. vol. 177; p. 767.
Capsules and foot remedy, Headache-. A. J. Killmer. No. 87,895; Aug. 13; Gaz. vol. 181; p. 536.
Car movers and pushers. W. McLeish. No. 85,759; Mar. 12; Gaz. vol. 176; p. 552.
Car-wheels, Cast-iron. Griffin Wheel Company. No. 86,902; June 11; Gaz. vol. 179; p. 568.
Cars and car-bodies, Motor-. The Cunard Motor and Carriage Company. No. 89,343; Dec. 10; Gaz. vol. 185; p. 519.
Cars and chassis, Motor-. Rolls-Royce. No. 86,458; May 7; Gaz. vol. 178; p. 316.
Cars, carts, and wheelbarrows, Certain named. Kilbourne & Jacobs Mfg. Co. No. 89,189; Nov. 19; Gaz. vol. 184; p. 799.
Carbohydrate for diabetes. Farbwerke vorm. Meister Lucius & Brüning. No. 87,187; July 2; Gaz. vol. 180; p. 316.
Carbon-black. Meteor Carbon Company. No. 85,671; Mar. 5; Gaz. vol. 176; p. 270.
Carbon-remover. F. W. Fischlein. No. 87,532; July 23; Gaz. vol. 180; p. 1133.
Carbon-remover. Right Manufacturing Company. No. 88,116; Aug. 27; Gaz. vol. 181; p. 1069.
Carbons and carbon electrodes. H. M. Hirschberg. No. 85,246; Feb. 6; Gaz. vol. 175; p. 260.
Carbureters. International Accessories Manufacturing Company. No. 86,710; May 28; Gaz. vol. 178; p. 1148.
Carbureters. Motor Appliance Company of America. No. 88,697; Oct. 15; Gaz. vol. 183; p. 778.

Alphabetical list of trade-marks—Continued.

Carbureters and parts of same. New Jersey Motor Equipment Company. No. 88,018; Aug. 20; Gaz. vol. 181; p. 816.
Carbureters and parts thereof. The Air Friction Carburetor Company. No. 86,565; May 21; Gaz. vol. 178; p. 879.
Carbureters, explosion-motor radiators, pumps, and lubricators. M. Goudard and Mennesson. No. 85,655; Mar. 5; Gaz. vol. 176; p. 269.
Card-cases and bill-folds. Emil Weissbrod & Sons. No. 87,694; July 30; Gaz. vol. 180; p. 1390.
Cards, Index-. Roneo Company of New York. No. 86,088; Apr. 9; Gaz. vol. 177; p. 521.
Cards, Playing-. Ballkards Company. No. 85,726; Mar. 12; Gaz. vol. 176; p. 521.
Cards, Playing-. Standard Playing Card Co. No. 87,495; July 16; Gaz. vol. 180; p. 876.
Cards, Playing-. Askyo-Dëler-Vantage Co. No. 87,709; Aug. 6; Gaz. vol. 181; p. 259.
Cards, Playing-. The Check Game Company. No. 88,241; Sept. 10; Gaz. vol. 182; p. 503.
Carpet-cleaning machines. Bissell Carpet Sweeper Company. No. 87,595; July 30; Gaz. vol. 180; p. 1387.
Carpet-sweepers. National Sweeper Company. No. 86,726; May 28; Gaz. vol. 178; p. 1148.
Carpets and rugs. Carson, Pirie, Scott & Co. No. 89,533; Dec. 24; Gaz. vol. 185; p. 1049.
Carpets and rugs, Woven. Hardwick & Magee Co. No. 87,336; July 9; Gaz. vol. 180; p. 598.
Cartridge-shells. United States Cartridge Company. No. 85,391; Feb. 13; Gaz. vol. 175; p. 539.
Cartridges. U. S. Cartridge Co. No. 87,688; July 30; Gaz. vol. 180; p. 1390.
Carvers. Landers, Frary and Clark. No. 85,453; Feb. 20; Gaz. vol. 175; p. 838.
Casabas. Hemphill & Christensen. No. 88,182; Sept. 3; Gaz. vol. 182; p. 244.
Casks and barrels. The Greif Bros. Co. No. 85,344; Feb. 13; Gaz. vol. 175; p. 538.
Casks and barrels. The Greif Bros. Co. Nos. 86,528–30; May 14; Gaz. vol. 178; p. 587.
Castings, Die-. C. M. Grey Mfg. Co. No. 85,964; Apr. 2; Gaz. vol. 177; p. 236.
Castor-oil. J. Judd Mason & Co. No. 87,086; June 25; Gaz. vol. 179; p. 1102.
Castor-oil product employed in dyeing processes. L. B. Fortner. No. 87,439; July 16; Gaz. vol. 180; p. 874.
Catalogues of merchandise. The Sullivan System. No. 84,885; Jan. 9; Gaz. vol. 174; p. 581.
Catarrhs, Preparations for treating bronchial. J. D. Riedel Aktiengesellschaft. No. 88,639; Oct. 8; Gaz. vol. 183; p. 500.
Cathartic powder. W. J. Scherer. No. 86,092; Apr. 9; Gaz. vol. 177; p. 521.
Cathartic preparation. W. E. Gillam. No. 86,214; Apr. 23; Gaz. vol. 177; p. 1039.
Catsup. McMechen Preserving Company. No. 86,920; June 11; Gaz. vol. 179; p. 568.
Catsup and chilli sauce, Tomato. The Frazier Packing Company. No. 88,263; Sept. 10; Gaz. vol. 182; p. 504.
Catsup and vinegar, Tomato. Northern Pickle Co. No. 88,347; Sept. 10; Gaz. vol. 182; p. 506.
Catsup, Tomato. Williams Bros. Co. No. 89,076; Nov. 5; Gaz. vol. 184; p. 283.
Ceilings, side walls, and skylights, Metal. The Empire Iron and Steel Company. No. 86,793; June 4; Gaz. vol. 179; p. 281.
Celery. Prairie Side Celery Co. No. 85,680; Mar. 5; Gaz. vol. 176; p. 270.
Cement, Adhesive. Caementium Sales Co. No. 86,782; June 4; Gaz. vol. 179; p. 281.
Cement, Adhesive. Standard Rubber & Cable Co. No. 87,375; July 9; Gaz. vol. 180; p. 599.
Cement and patches, Adhesive. The M. & M. Manufacturing Company. No. 88,098; Aug. 27; Gaz. vol. 181; p. 1068.
Cement, concrete, &c., Coater for. Standard Varnish Works. No. 85,195; Jan. 30; Gaz. vol. 174; p. 1215.
Cement-filler. Keystone Varnish Co. No. 86,600; May 21; Gaz. vol. 178; p. 880.
Cement, Fire-resisting. E. V. Morgan. No. 84,986; Jan. 16; Gaz. vol. 174; p. 825.
Cement, Portland. J. H. Houghton. No. 86,804; June 4; Gaz. vol. 179; p. 282.
Cement, Portland. The Atlas Portland Cement Company. No. 86,973; June 18; Gaz. vol. 179; p. 847.
Cement, Portland. McCormick Waterproof Portland Cement Company. No. 87,552; July 23; Gaz. vol. 180; p. 1134.
Cement, Roofing-. Coal Tar Product Company. No. 86,882; June 11; Gaz. vol. 179; p. 567.
Cement, Waterproofing and strengthening for. Hercules Waterproof Cement Company. No. 84,962; Jan. 16; Gaz. vol. 174; p. 824.
Cements and pavements, Bituminous. Warren Brothers Company. No. 85,780; Mar. 12; Gaz. vol. 176; p. 522.
Cereal breakfast foods. D. A. Harrison. No. 85,745; Mar. 12; Gaz. vol. 176; p. 521.
Cereal compound used in the preparation of a beverage. Mission Cereal Company. No. 84,845; Jan. 9; Gaz. vol. 174; p. 580.
Cereals, Breakfast. Morrow-Lawton Company. No. 85,763; Mar. 12; Gaz. vol. 176; p. 522.
Cereals, Candy-coated or sweetened. Peoria Confectionery Company. No. 88,944; Oct. 29; Gaz. vol. 183; p. 1304.
Chains, Sheet-metal. The Smith & Egge Mfg. Co. No. 86,628; May 21; Gaz. vol. 178; p. 880.
Chains, Window-sash. T. Morton. No. 87,907; Aug. 13; Gaz. vol. 181; p. 537.
Chair-tips. Star Rubber Co. No. 86,957; June 11; Gaz. vol. 179; p. 569.
Chairs. Oregon Chair Co. No. 87,558; July 23; Gaz. vol. 180; p. 1134.
Chairs, tables, davenports, and foot-stools. Ramsey, Alton Manufacturing Company. No. 89,417; Dec. 10; Gaz. vol. 185; p. 522.
Charcoal and coke. F. Wittig & Co. No. 86,015; Apr. 2; Gaz. vol. 177; p. 237.
Checks, Blank. G. A. Griggs. No. 88,674; Oct. 15; Gaz. vol. 183; p. 777.
Cheese. Babcock, Hurd & Co. No. 86,656; May 21; Gaz. vol. 178; p. 881.
Cheese. H. Rudolff. No. 87,659; July 30; Gaz. vol. 180; p. 1389.
Cheese. E. W. Coon. No. 87,857; Aug. 13; Gaz. vol. 181; p. 535.
Cheese. H. Rudolf. No. 87,931; Aug. 13; Gaz. vol. 181; p. 537.
Cheese. Menzel & Co. No. 88,411; Sept. 17; Gaz. vol. 182; p. 717.
Cheese, Cream-. G. Hagendorff. No. 84,960; Jan. 16; Gaz. vol. 174; p. 824.
Cheese, Cream-. F. Schujahn. No. 85,501; Feb. 20; Gaz. vol. 175; p. 840.
Cheese, Cream-. Grove, Prager & Miller. No. 85,742; Mar. 12; Gaz. vol. 176; p. 521.
Cheese, Cream-. M. Eisenberg. No. 86,133; Apr. 16; Gaz. vol. 177; p. 765.
Cheese, Cream-. S. H. Conover. No. 87,045; June 25; Gaz. vol. 179; p. 1101.
Cheese, cream, butter, eggs, and ice-cream. W. Courtnage. No. 87,858; Aug. 13; Gaz. vol. 181; p. 535.
Chemical, Certain. Farbenfabriken of Elberfeld Company. No. 86,048; Apr. 9; Gaz. vol. 177; p. 520.
Chemical compositions for destroying blight and the like on plants. J. Sorley. No. 86,106; Apr. 9; Gaz. vol. 177; p. 521.
Chemical compounds. The Walker-Henderson Art Co. No. 88,647; Oct. 8; Gaz. vol. 183; p. 500.
Chemical for removing iron-rust stains. U-No-Iron-Rust Company. No. 89,719; Dec. 31; Gaz. vol. 185; p. 1376.
Chemical preparation, Certain. Oakes Manufacturing Company. No. 86,824; June 4; Gaz. vol. 179; p. 282.
Chemical preparation, Certain. A. E. Hawker. No. 86,988; June 18; Gaz. vol. 179; p. 847.
Chemical preparation, Certain. Florasel Mfg. Company. No. 87,061; June 25; Gaz. vol. 179; p. 1102.
Chemical preparation for cleaning garments. Monroe Drug Co. No. 89,130; Nov. 12; Gaz. vol. 184; p. 546.
Chemical preparations, Certain. G. Grether. No. 86,053; Apr. 9; Gaz. vol. 177; p. 520.
Chemical preparations, Certain. Burke & James. No. 86,205; Apr. 23; Gaz. vol. 177; p. 1039.
Chemicals and pharmaceutical preparations, Certain. The Solvay Process Company. No. 88,968; Oct. 29; Gaz. vol. 183; p. 1305.
Chemicals and pharmaceutical preparations, Certain named. A. L. Mock. No. 89,129; Nov. 12; Gaz. vol. 184; p. 546.
Chemicals, Certain. Burke & James. No. 85,702; Mar. 5; Gaz. vol. 176; p. 271.
Chemicals, Certain. Burke & James. No. 87,157; July 2; Gaz. vol. 180; p. 315.
Chemicals, Certain. Chemische Fabrik Bannewitz Orloff Hansen. No. 87,164; July 2; Gaz. vol. 180; p. 316.
Chemicals, medicines, and pharmaceutical preparations. J. D. Riedel, Actiengesellschaft. No. 88,204; Sept. 3; Gaz. vol. 182; p. 244.
Chemicals, medicines, and toilet preparations, Certain. McNeil & Higgins Company. No. 85,605; Feb. 27; Gaz. vol. 175; p. 1095.
Chests and cabinets. Towle Manufacturing Company. No. 88,222; Sept. 3; Gaz. vol. 182; p. 245.
Chests and utility-boxes. Roos Manufacturing Co. No. 89,202; Nov. 19; Gaz. vol. 184; p. 799.
Chilli sauce and assorted nuts. Francis H. Leggett & Co. No. 85,144; Jan. 30; Gaz. vol. 174; p. 1213.
Chinaware. G. F. Bassett & Co. No. 87,517; July 23; Gaz. vol. 180; p. 1133.
Chinaware. Homer Laughlin China Co. No. 89,362; Dec. 10; Gaz. vol. 185; p. 520.
Chocolate chips. L. M. S. Candy Mfg. Co. No. 87,222; July 2; Gaz. vol. 180; p. 317.
Chocolate cream drops. The Walter M. Lowney Company. No. 85,976; Apr. 2; Gaz. vol. 177; p. 236.
Chocolate creams. Douglas Candy Co. No. 86,390; May 7; Gaz. vol. 178; p. 314.
Chocolate, Eatable cake-. Maldurmin Importing Co. No. 89,677; Dec. 31; Gaz. vol. 185; p. 1375.
Chocolates. Francis H. Leggett & Co. No. 87,225; July 2; Gaz. vol. 180; p. 317.

Alphabetical list of trade-marks—Continued.

Chocolates. E. Greenfield's Sons. No. 89,652; Dec. 31; Gaz. vol. 185; p. 1374.
Chocolates and cocoa. Stollwerck Brothers. No. 86,633; May 21; Gaz. vol. 178; p. 881.
Chocolates and marshmallows. Gottmann & Kretchmer. No. 85,242; Feb. 6; Gaz. vol. 175; p. 260.
Chucks for holding removable tools. Millers Falls Company. No. 86,431; May 7; Gaz. vol. 178; p. 315.
Churns. L. R. Lynott. No. 88,902; Oct. 29; Gaz. vol. 183; p. 1303.
Cider. E. A. Ransing. No. 88,202; Sept. 3; Gaz. vol. 182; p. 244.
Cider, Apple. Walter H. Hildick Co. No. 86,298; Apr. 30; Gaz. vol. 177; p. 1292.
Cigarette-holders, Receptacles for. American Anti-Cigarette Company. No. 86,502; May 14; Gaz. vol. 178; p. 587.
Cigarette-paper. S. D. Modiano. No. 88,327; Sept. 10; Gaz. vol. 182; p. 506.
Cigarette-papers. E. Bardou. No. 87,516; July 23; Gaz. vol. 180; p. 1133.
Cigarettes. A. C. Brennig. No. 84,723; Jan. 2; Gaz. vol. 174; p. 283.
Cigarettes. Société Anonyme Le Khédive. No. 85,507; Feb. 20; Gaz. vol. 175; p. 840.
Cigarettes. Teofani & Co. No. 85,623; Feb. 27; Gaz. vol. 175; p. 1095.
Cigarettes. Republic of France. No. 85,994; Apr. 2; Gaz. vol. 177; p. 236.
Cigarettes. M. J. Ahrens and Co. No. 88,147; Sept. 3; Gaz. vol. 182; p. 243.
Cigarettes. The Tryst Cigarette Co. No. 88,219; Sept. 3; Gaz. vol. 182; p. 245.
Cigarettes. Nestor Gianaclis Company. No. 89,685; Dec. 31; Gaz. vol. 185; p. 1375.
Cigarettes and cigars. A. L. Rowell. No. 85,618; Feb. 27; Gaz. vol. 175; p. 1095.
Cigarettes and smoking-tobaccos. Compagnie Laferme Tabak- & Cigaretten-Fabriken. No. 87,730; Aug. 6; Gaz. vol. 181; p. 260.
Cigarettes, Tobacco. Felbel, Speyer Company. No. 87,740; Aug. 6; Gaz. vol. 181; p. 260.
Cigars. Hulman & Co. No. 84,744; Jan. 2; Gaz. vol. 174; p. 284.
Cigars. San Telmo Cigar Mfg. Co. No. 84,756; Jan. 2; Gaz. vol. 174; p. 284.
Cigars. Germann and Company. No. 85,036; Jan. 23; Gaz. vol. 174; p. 1023.
Cigars. Heineman Bros. No. 85,039; Jan. 23; Gaz. vol. 174; p. 1023.
Cigars. A. Duval. No. 85,421; Feb. 20; Gaz. vol. 175; p. 837.
Cigars. B. Legarda. Nos. 85,455–6; Feb. 20; Gaz. vol. 175; p. 838.
Cigars. M. W. Diffley, Inc. No. 85,566; Feb. 27; Gaz. vol. 175; p. 1093.
Cigars. R. Fernandez. No. 85,855; Mar. 26; Gaz. vol. 176; p. 1065.
Cigars. The L. C. Nicholson Co. No. 85,876; Mar. 26; Gaz. vol. 176; p. 1066.
Cigars. Sanchez & Haya Co. No. 85,882; Mar. 26; Gaz. vol. 176; p. 1066.
Cigars. G. J. Gammel & Company. No. 85,960; Apr. 2; Gaz. vol. 177; p. 235.
Cigars. J. E. Sullivan. No. 86,007; Apr. 2; Gaz. vol. 177; p. 237.
Cigars. B. Moreda y Deben. No. 86,132; Apr. 16; Gaz. vol. 177; p. 765.
Cigars. B. Legarda. Nos. 86,143–4; Apr. 16; Gaz. vol. 177; p. 765.
Cigars. B. Legarda. No. 86,308; Apr. 30; Gaz. vol. 177; p. 1292.
Cigars. L. H. Rosenberg. No. 86,334; Apr. 30; Gaz. vol. 177; p. 1293.
Cigars. United Cigar Manufacturers Company. No. 86,487; May 7; Gaz. vol. 178; p. 317.
Cigars. Sanchez & Haya Co. Nos. 86,557–8; May 14; Gaz. vol. 178; p. 588.
Cigars. Wm. Stickney Cigar Co. No. 86,630; May 21; Gaz. vol. 178; p. 881.
Cigars. Hartford Bros. No. 86,904; June 11; Gaz. vol. 179; p. 568.
Cigars. The Hautzenroeder Co. No. 86,905; June 11; Gaz. vol. 179; p. 568.
Cigars. Jaynes Drug Company. No. 87,077; June 25; Gaz. vol. 179; p. 1102.
Cigars. Sanchez & Haya Co. No. 87,109; June 25; Gaz. vol. 179; p. 1103.
Cigars. L. M. Crump. No. 87,325; July 9; Gaz. vol. 180; p. 597.
Cigars. J. Wallach's Sons. No. 87,505; July 16; Gaz. vol. 180; p. 876.
Cigars. Walter E. Olsen & Company. No. 87,792; Aug. 6; Gaz. vol. 181; p. 261.
Cigars. The Standard Cigar Company. No. 87,818; Aug. 6; Gaz. vol. 181; p. 262.
Cigars. H. Traiser & Company. No. 87,826; Aug. 6; Gaz. vol. 181; p. 262.
Cigars. J. P. Coyne. No. 88,165; Sept. 3; Gaz. vol. 182; p. 243.
Cigars. L. M. Crump. No. 88,167; Sept. 3; Gaz. vol. 182; p. 243.
Cigars. B. Moreda y Deben. No. 88,169; Sept. 3; Gaz. vol. 182; p. 243.
Cigars. J. J. Moeckel. No. 88,190; Sept. 3; Gaz. vol. 182; p. 244.
Cigars. S. S. Pierce Company. No. 88,198; Sept. 3; Gaz. vol. 182; p. 244.
Cigars. C. J. Printz. No. 88,588; Oct. 1; Gaz. vol. 183; p. 214.
Cigars. A. S. Valentine & Son. No. 88,645; Oct. 8; Gaz. vol. 183; p. 500.
Cigars. H. P. Wright. No. 88,719; Oct. 15; Gaz. vol. 183; p. 779.
Cigars. Sanchez & Haya Co. No. 88,959; Oct. 29; Gaz. vol. 183; p. 1305.
Cigars. Seidenberg & Company. No. 88,963; Oct. 29; Gaz. vol. 183; p. 1305.
Cigars. Jaynes Drug Co. Nos. 89,371–2; Dec. 10; Gaz. vol. 185; p. 520.
Cigars. Fitzpatrick & Draper. No. 89,455; Dec. 17; Gaz. vol. 185; p. 824.
Cigars. Sig C. Mayer & Company. No. 89,479; Dec. 17; Gaz. vol. 185; p. 824.
Cigars. H. Upmann & Co. No. 89,518; Dec. 17; Gaz. vol. 185; p. 825.
Cigars. Frings Bros. Co. No. 89,548; Dec. 24; Gaz. vol. 185; p. 1049.
Cigars. A. Merlino. No. 89,682; Dec. 31; Gaz. vol. 185; p. 1375.
Cigars. Walter E. Olsen & Company. Nos. 89,689–90; Dec. 31; Gaz. vol. 185; p. 1375.
Cigars and cigarettes. C. Ingenohl. Nos. 86,533–5; May 14; Gaz. vol. 178; p. 588.
Cigars and cigarettes. A. H. Neuthard. No. 87,790; Aug. 6; Gaz. vol. 181; p. 261.
Cigars and cigarettes. The Norman Company. No. 88,584; Oct. 1; Gaz. vol. 183; p. 214.
Cigars and cigarettes. S. D. Stamatopoulos. No. 89,710; Dec. 31; Gaz. vol. 185; p. 1376.
Cigars, cheroots, and cigarettes. Cayey-Caguas Tobacco Company. No. 85,900; Mar. 26; Gaz. vol. 176; p. 1066.
Cigars, cheroots, and cigarettes. Cayey-Caguas Tobacco Company. No. 86,278; Apr. 30; Gaz. vol. 177; p. 1291.
Cigars, cheroots, and little cigars. Superia Cigar Manufacturing Co. No. 84,766; Jan. 2; Gaz. vol. 174; p. 284.
Cigars, cigarettes, and smoking-tobaccos. Inter-State News Company. No. 89,267; Dec. 3; Gaz. vol. 185; p. 244.
Cigars, cigarettes, and tobacco. L. Gener y Seycher. Nos. 86,339–40; Apr. 30; Gaz. vol. 177; p. 1293.
Cigars, cigarettes, and tobacco. Rode & Brand. No. 88,955; Oct. 29; Gaz. vol. 183; p. 1304.
Cigars, cigarettes, and tobaccos. Nicholas Kuhnen Cigar Co. No. 85,871; Mar. 26; Gaz. vol. 176; p. 1065.
Cigars, cigarettes, cheroots, stogies, and tobacco. M. A. La Fond and Co. No. 89,670; Dec. 31; Gaz. vol. 185; p. 1375.
Cigars, cigarettes, tobacco, and snuff. Rode & Brand. No. 88,205; Sept. 3; Gaz. vol. 182; p. 244.
Cigars, smoking-tobacco, and cigarettes. Rode & Brand. No. 89,419; Dec. 10; Gaz. vol. 185; p. 522.
Cigars, tobacco, and cigarettes. The Hemmeter Cigar Company. No. 88,488; Sept. 24; Gaz. vol. 182; p. 966.
Cigars, tobacco, and cigarettes. Henkel-Duke Mercantile Co. No. 89,360; Dec. 10; Gaz. vol. 185; p. 520.
Clams and oysters. The Hudson & Gram Co. No. 89,658; Dec. 31; Gaz. vol. 185; p. 1375.
Clarets and sauternes. Cruse & Fils Freres. No. 86,283; Apr. 30; Gaz. vol. 177; p. 1291.
Clay. Moore & Munger. No. 87,236; July 2; Gaz. vol. 180; p. 318.
Clay for manufacturing certain articles used by glass-manufacturers, Crude. Moore & Munger. No. 88,105; Aug. 27; Gaz. vol. 181; p. 1069.
Clay for the manufacture of crucibles, &c. Moore & Munger. No. 89,683; Dec. 31; Gaz. vol. 185; p. 1375.
Cleaners and attachments therefor, Suction-. Rosenfield Manufacturing Company. No. 88,119; Aug. 27; Gaz. vol. 181; p. 1069.
Cleaners and parts thereof, Vacuum-. D. B. Replogle. No. 89,580; Dec. 24; Gaz. vol. 185; p. 1050.
Cleaners, Vacuum-. The Premier Vacuum Cleaner Co. No. 85,766; Mar. 12; Gaz. vol. 176; p. 522.
Cleaners, Varnish-. Cardinal Varnish Cleaner Company. No. 86,033; Apr. 9; Gaz. vol. 177; p. 519.
Cleaning and polishing cloth for cut glass, jewelry, &c. W. P. Lindlar. No. 89,675; Dec. 31; Gaz. vol. 185; p. 1375.
Cleaning and polishing cloths. The Redio Company. No. 85,178; Jan. 30; Gaz. vol. 174; p. 1214.
Cleaning and polishing cloths. Progressive Manufacturing Company. No. 89,577; Dec. 24; Gaz. vol. 185; p. 1050.
Cleaning and polishing compound for wood, metal, &c. W. Forster. No. 89,546; Dec. 24; Gaz. vol. 185; p. 1049.
Cleaning apparatus, Vacuum. American Radiator Company. No. 88,442; Sept. 24; Gaz. vol. 182; p. 965.
Cleaning compound. E. L. Mertz. No. 88,685; Oct. 15; Gaz. vol. 183; p. 778.

Alphabetical list of trade-marks—Continued.

Cleaning compound for automobile-radiators. United States Compound Company. No. 89,162; Nov. 12; Gaz. vol. 184; p. 547.
Cleaning pads, Cloth-. J. Thompson. No. 86,351; Apr. 30; Gaz. vol. 177; p. 1293.
Cleaning-powder. W. H. Hayward. No. 85,861; Mar. 26; Gaz. vol. 176; p. 1065.
Cleaning-powder. The Hygienic Products Company. No. 86,062; Apr. 9; Gaz. vol. 177; p. 520.
Cleaning-powder for metal, wood, &c. Badger State Cleaner Company. No. 89,085; Nov. 12; Gaz. vol. 184; p. 545.
Cleaning preparation. Armour & Company. No. 88,547; Oct. 1; Gaz. vol. 183; p. 213.
Cleaning preparation for engines, &c. The Carbo-Sol Co. No. 89,094; Nov. 12; Gaz. vol. 184; p. 545.
Cleaning preparation for white goods. Cammeyer. No. 88,057; Aug. 27; Gaz. vol. 181; p. 1067.
Cleaning preparation for white goods, Liquid. Cammeyer. No. 87,849; Aug. 13; Gaz. vol. 181; p. 535.
Cleansing and scouring preparation, Liquid. Kretol Company. No. 87,346; July 9; Gaz. vol. 180; p. 598.
Cleansing compound. Swift and Company. No. 85,202; Jan. 30; Gaz. vol. 174; p. 1215.
Cloaks and suits, Children's and misses'. E. Rosenheim's Son. No. 86,001; Apr. 2; Gaz. vol. 177; p. 237.
Cloaks, outer suits, skirts, and dresses. The R B Manufacturing Company. No. 88,787; Oct. 22; Gaz. vol. 183; p. 1029.
Clocks. Friedrich Mauthe, G. m. b. H. No. 85,154; Jan. 30; Gaz. vol. 174; p. 1214.
Clocks. T. Schisgall. No. 85,380; Feb. 13; Gaz. vol. 175; p. 539.
Clocks. T. Schisgall. No. 85,686; Mar. 5; Gaz. vol. 176; p. 270.
Clocks. The New Haven Clock Co. No. 87,791; Aug. 6; Gaz. vol. 181; p. 261.
Clocks and watches. The Western Clock Manufacturing Co. No. 86,356; Apr. 30; Gaz. vol. 177; p. 1293.
Clocks and watches. Western Clock Manufacturing Co. No. 87,388; July 9; Gaz. vol. 180; p. 599.
Clocks and watches. Western Clock Manufacturing Co. No. 87,455; July 16; Gaz. vol. 180; p. 874.
Clocks, Watchmen's. Hardinge Brothers. No. 86,587; May 21; Gaz. vol. 178; p. 879.
Closet-tanks, medicine and toilet cabinets, &c., Sheet-metal. Sanisteel Company. No. 87,488; July 16; Gaz. vol. 180; p. 875.
Closets, Sanitary chemical-. Parker & Whyte. No. 87,476; July 16; Gaz. vol. 180; p. 875.
Cloth, Open-weave. W. P. Willis & Co. No. 86,972; June 11; Gaz. vol. 179; p. 570.
Cloth or shirting. William Hollins & Company. No. 87,210; July 2; Gaz. vol. 180; p. 317.
Cloth, Waterproof. W. A. & J. C. Haartz. No. 86,054; Apr. 9; Gaz. vol. 177; p. 520.
Clothes-lines, Hemp. The American Manufacturing Company. Nos. 85,402–3; Feb. 20; Gaz. vol. 175; p. 837.
Clothes-lines, Jute. The Upson-Walton Company. No. 88,139; Aug. 27; Gaz. vol. 181; p. 1069.
Clothes, Men's. Burk, Fried & Company. No. 84,898; Jan. 9; Gaz. vol. 174; p. 582.
Clothing. Hochschild Kohn & Co. No. 85,350; Feb. 13; Gaz. vol. 175; p. 538.
Clothing. National Cloak & Suit Co. No. 86,322; Apr. 30; Gaz. vol. 177; p. 1292.
Clothing and house-coats, Sporting. Alfred Nelson Company. No. 84,913; Jan. 9; Gaz. vol. 174; p. 582.
Clothing, Boys' and youths'. M. Phillips & Sons. No. 87,363; July 9; Gaz. vol. 180; p. 598.
Clothing, Certain. The Spirella Company. No. 85,193; Jan. 30; Gaz. vol. 174; p. 1215.
Clothing, Certain. C. Eisenman Company. No. 87,055; June 25; Gaz. vol. 179; p. 1102.
Clothing, Certain. M. Phillips & Sons. No. 87,364; July 9; Gaz. vol. 180; p. 598.
Clothing, Certain. Lewis & Bashlow. No. 87,716; Aug. 6; Gaz. vol. 181; p. 259.
Clothing, Certain. B. H. Gladding Dry Goods Co. No. 87,751; Aug. 6; Gaz. vol. 181; p. 260.
Clothing, Certain. A. G. Hyde & Sons. No. 87,762; Aug. 6; Gaz. vol. 181; p. 261.
Clothing, Certain. The Big Store Company. No. 87,843; Aug. 13; Gaz. vol. 181; p. 535.
Clothing, Certain. Bonwit, Teller & Co. No. 87,844; Aug. 13; Gaz. vol. 181; p. 535.
Clothing, Certain. A. M. Malouf & Bros. No. 88,101; Aug. 27; Gaz. vol. 181; p. 1068.
Clothing, Certain article of. Ryff & Co. No. 87,010; June 18; Gaz. vol. 179; p. 848.
Clothing, Certain articles of. M. Phillips & Sons. No. 88,111; Aug. 27; Gaz. vol. 181; p. 1069.
Clothing, Certain named. Malloch Knitting Company. No. 88,321; Sept. 10; Gaz. vol. 182; p. 505.
Clothing, Certain named. Wooding & Teasdale. No. 88,819; Oct. 22; Gaz. vol. 183; p. 1029.
Clothing, Certain named. Compagnie Française de la Chamoiserie Nouvelle. No. 89,627; Dec. 31; Gaz. vol. 185; p. 1374.
Clothing, Certain named. Globe Shirt & Overall Co. No. 89,648; Dec. 31; Gaz. vol. 185; p. 1374.
Clothing, Certain named articles of. The Direct Supply Co. No. 88,742; Oct. 22; Gaz. vol. 183; p. 1027.
Clothing, Certain named articles of. Nelson & Landsberg. No. 88,936; Oct. 29; Gaz. vol. 183; p. 1304.
Clothing, Certain named articles of. The Irish Linen Mesh Co. No. 89,366; Dec. 10; Gaz. vol. 185; p. 520.
Clothing, Children's, misses', and ladies'. A. L. Mock. No. 86,816; June 4; Gaz. vol. 179; p. 282.
Clothing, Ladies' and children's. Benjamin & Johnes. No. 86,269; Apr. 30; Gaz. vol. 177; p. 1291.
Clothing, Men's and boys'. Hackett, Carhart & Co. No. 87,534; July 23; Gaz. vol. 180; p. 1133.
Clothing, Men's and boys' outer. Kuh, Nathan & Fischer Company. No. 85,360; Feb. 13; Gaz. vol. 175; p. 538.
Clothing, Men's, boys', and children's outer. Karnmann, Cohen & Ettlinger. No. 85,140; Jan. 30; Gaz. vol. 174; p. 1213.
Clothing, Men's, women's, and children's. E. Leurent. No. 86,226; Apr. 23; Gaz. vol. 177; p. 1039.
Clothing, Women's, men's, and boys'. Kalasiris Fabrik für hyg. Unterkleidung, G. m. b. H. No. 85,256; Feb. 6; Gaz. vol. 175; p. 260.
Clutches, Friction-. C. Wear. No. 85,300; Feb. 6; Gaz. vol. 175; p. 261.
Coal. Horace Clark & Sons Co. No. 85,077; Jan. 30; Gaz. vol. 174; p. 1211.
Coal. Pittsburg-Buffalo Company. Nos. 85,172–3; Jan. 30; Gaz. vol. 174; p. 1214.
Coal. City Fuel Company. No. 85,557; Feb. 27; Gaz. vol. 175; p. 1093.
Coal. Hokkaido Tanko Kisen (Kabushiki) Kaisha. No. 87,761; Aug. 6; Gaz. vol. 181; p. 260.
Coal. Jung & Sons Co. No. 87,771; Aug. 6; Gaz. vol. 181; p. 261.
Coal. Newman Ice & Coal Co. No. 89,286; Dec. 3; Gaz. vol. 185; p. 245.
Coal. Chalfant Bros. No. 89,535; Dec. 24; Gaz. vol. 185; p. 1049.
Coal and coal briquets. Tattersall Company. No. 87,282; July 2; Gaz. vol. 180; p. 319.
Coal and coke. Cline and Shaw Fuel Co. No. 89,176; Nov. 19; Gaz. vol. 184; p. 799.
Coal-meters. C. J. Allen. No. 87,701; Aug. 6; Gaz. vol. 181; p. 259.
Coats. Hershberg & Company. No. 85,116; Jan. 30; Gaz. vol. 174; p. 1213.
Coats and wraps, Men's and women's. Collins & Fairbanks Co. No. 85,947; Apr. 2; Gaz. vol. 177; p. 235.
Coats, overcoats, and rain-coats. Garson-Meyer & Co. No. 85,105; Jan. 30; Gaz. vol. 174; p. 1212.
Coats, overcoats, vests, and trousers. Kramer & Co. No. 85,258; Feb. 6; Gaz. vol. 175; p. 260.
Coats, trousers, and waistcoats. Talbot Company. No. 88,803; Oct. 22; Gaz. vol. 183; p. 1029.
Coats, trousers, hats, and shirts. J. E. Dryfoos. No. 87,611; July 30; Gaz. vol. 180; p. 1388.
Coats, trousers, waistcoats, and overcoats. Hickey Freeman Co. No. 87,441; July 16; Gaz. vol. 180; p. 874.
Coats, vests, and pantaloons. Talbot Company. No. 88,804; Oct. 22; Gaz. vol. 183; p. 1029.
Coats, vests, and trousers. Old Woolen Mills. No. 85,282; Feb. 6; Gaz. vol. 175; p. 261.
Coats, vests, and trousers. A. Decker & Cohn. No. 85,419; Feb. 20; Gaz. vol. 175; p. 8[illegible].
Coats, vests, and trousers. Proser Bros. No. 87,799; Aug. 6; Gaz. vol. 181; p. 262.
Coats, vests, trousers, &c. J. Yetter. No. 86,754; May 28; Gaz. vol. 178; p. 1149.
Coats, vests, trousers, and overcoats. The Fechheimer Kiefer Company. No. 85,098; Jan. 30; Gaz. vol. 174; p. 1212.
Coats, vests, trousers, and overcoats. J. Corday & Co. No. 85,229; Feb. 6; Gaz. vol. 175; p. 259.
Coats, vests, trousers, and overcoats. I. Scheinman. No. 87,663; July 30; Gaz. vol. 180; p. 1389.
Coats, vests, trousers, and overcoats. Simon & Plechner. No. 87,937; Aug. 13; Gaz. vol. 181; p. 537.
Coats, vests, trousers, overcoats, and rain-coats. Levy & Markowitz. No. 85,262; Feb. 6; Gaz. vol. 175; p. 260.
Cocks or faucets. H. Mueller Manufacturing Co. No. 88,328; Sept. 10; Gaz. vol. 182; p. 506.
Cocktails. Elder-Harrison Company. No. 88,256; Sept. 10; Gaz. vol. 182; p. 504.
Cocoa. J. O. Powers. No. 85,615; Feb. 27; Gaz. vol. 175; p. 1095.
Cocoa. Droste & Co. No. 86,288; Apr. 30; Gaz. vol. 177; p. 1291.
Cocoa. C. J. Van Houten & Zoon. No. 87,293; July 2; Gaz. vol. 180; p. 319.
Cocoa-beans. Graham, Hinkley & Co. No. 88,275; Sept. 10; Gaz. vol. 182; p. 504.
Cocoa, chocolate candy. Hartwig & Vogel, Aktiengesellschaft. No. 89,029; Nov. 5; Gaz. vol. 184; p. 282.
Cod-liver-extract preparations. Henry K. Wampole and Company. No. 88,648; Oct. 8; Gaz. vol. 183; p. 500.
Codfish-balls. Boston Food Products Company. No. 88,162; Sept. 3; Gaz. vol. 182; p. 243.
Coffee. Hulman & Co. No. 85,040; Jan. 23; Gaz. vol. 174; p. 1023.
Coffee. Biedermann Bros. No. 85,224; Feb. 6; Gaz. vol. 175; p. 259.

Alphabetical list of trade-marks—Continued.

Coffee. Thomas Wood Co. No. 85,305; Feb. 6; Gaz. vol. 175; p. 261.
Coffee. Johnson-Allen Coffee Co. Nos. 85,446–8; Feb. 20; Gaz. vol. 175; p. 838.
Coffee. William S. Scull Company. No. 85,832; Mar. 19; Gaz. vol. 176; p. 746.
Coffee. Dwinell-Wright Co. No. 85,956; Apr. 2; Gaz. vol. 177; p. 235.
Coffee. W. S. Sanderson & Brother. No. 86,091; Apr. 9; Gaz. vol. 177; p. 521.
Coffee. Stone Ordean Wells Company. No. 86,762; May 28; Gaz. vol. 178; p. 1149.
Coffee. The Theo. Poehler Mercantile Co. No. 86,936; June 11; Gaz. vol. 179; p. 569.
Coffee. Dean Lilly Coffee and Spice Co. No. 87,609; July 30; Gaz. vol. 180; p. 1388.
Coffee. Great Atlantic and Pacific Tea Company. No. 87,622; July 30; Gaz. vol. 180; p. 1388.
Coffee. The Gasser Coffee Co. No. 87,878; Aug. 13; Gaz vol. 181, p. 536.
Coffee. James Van Dyk Company. No. 88,434; Sept. 17; Gaz. vol. 182; p. 718.
Coffee. Johnson-Allen Coffee Co. No. 88,891; Oct. 29; Gaz. vol. 183; p. 1303.
Coffee. National Grocer Company. No. 88,934; Oct. 29; Gaz. vol. 183; p. 1304.
Coffee. C. E. Brown & Co. No. 88,999; Nov. 5; Gaz. vol. 184; p. 281.
Coffee. Henkel-Duke Mercantile Co. No. 89,028; Nov. 5; Gaz. vol. 184; p. 282.
Coffee. Dwinell-Wright Company. No. 89,236; Dec. 3; Gaz. vol. 185; p. 243.
Coffee. Mazo Brothers. No. 89,280; Dec. 3; Gaz. vol. 185; p. 245.
Coffee. Importers Coffee Co. No. 89,558; Dec. 24; Gaz. vol. 185; p. 1050.
Coffee, a compound of coffee and chicory, cocoa, and chocolate. The Liverpool China & India Tea Company. No. 89,042; Nov. 5; Gaz. vol. 184; p. 282.
Coffee and chicory, Compound of. Austin, Nichols & Co. No. 87,309; July 9; Gaz. vol. 180; p. 597.
Coffee and spices, Blended. W. Grossman. No. 87,334; July 9; Gaz. vol. 180; p. 598.
Coffee and tea, Blended. Lowry Coffee Co. No. 84,840; Jan. 9; Gaz. vol. 174; p. 580.
Coffee and tea, Blended. Hewlett Bros. Co. No. 85,657; Mar. 5; Gaz. vol. 176; p. 269.
Coffee and tea, Blended. Clark & Host Co. No. 87,602; July 30; Gaz. vol. 180; p. 1887.
Coffee-blend. Humphreys, Cannon & Co. No. 86,595; May 21; Gaz. vol. 178; p. 880.
Coffee, Blended. R. Bleecker. No. 85,063; Jan. 30; Gaz. vol. 174; p. 1211.
Coffee, Blended. William S. Scull Company. No. 85,688; Mar. 5; Gaz. vol. 176; p. 270.
Coffee, Blended. John Hoffmann & Sons Co. No. 85,966; Apr. 2; Gaz. vol. 177; p. 236.
Coffee, Blended. R. W. Weir & Company. No. 87,296; July 2; Gaz. vol. 180; p. 319.
Coffee, Blended. Griggs, Cooper & Co. No. 87,624; July 30; Gaz. vol. 180; p. 1388.
Coffee, Blended. St. Louis Coffee & Spice Mills. Nos. 87,932–3; Aug. 13; Gaz. vol. 181; p. 537.
Coffee, Blended. Tracy, Packard & Huntoon. No. 87,948; Aug. 13; Gaz. vol. 181; p. 538.
Coffee, Blended. The Lowry Coffee Co. No. 88,319; Sept. 10; Gaz. vol. 182; p. 505.
Coffee, Blended. St. Louis Coffee & Spice Mills. Nos. 88,381–2; Sept. 10; Gaz. vol. 182; p. 507.
Coffee, Blended. St. Louis Coffee & Spice Mills. No. 88,970; Oct. 29; Gaz. vol. 183; p. 1305.
Coffee, Blended. Thomas Wood & Co. No. 89,171; Nov. 12; Gaz. vol. 184; p. 547.
Coffee, catsup, canned oysters, and syrup. Groneweg & Schoentgen Co. No. 87,880; Aug. 13; Gaz. vol. 181; p. 536.
Coffee, cereals, and chicory compound. Humphreys, Cannon & Co. No. 87,340; July 9; Gaz. vol. 180; p. 598.
Coffee, chicory, and cereals, Compound of. Abel & Asher Co. No. 89,524; Dec. 24; Gaz. vol. 185; p. 1049.
Coffee compound. Abel & Asher Co. No. 88,146; Sept. 3; Gaz. vol. 182; p. 243.
Coffee compounds. W. T. Morris. No. 87,644; July 30; Gaz. vol. 180; p. 1389.
Coffee extract. Ireland & Kreppel. No. 87,634; July 30; Gaz. vol. 180; p. 1388.
Coffee, Green. Schütte Bünemann & Co. No. 86,944; June 11; Gaz. vol. 179; p. 569.
Coffee, Roasted. F. Widlar & Co. No. 85,303; Feb. 6; Gaz. vol. 175; p. 261.
Coffee, Roasted. J. J. Schotten. No. 85,500; Feb. 20; Gaz. vol. 175; p. 840.
Coffee-settler. Crystal Gelatine Company. No. 85,085; Jan. 30; Gaz. vol. 174; p. 1212.
Coffee substitute. E. M. Morrison. No. 86,668; May 21; Gaz. vol. 178; p. 882.
Coffee substitute. National Essence for Coffee Co. No. 86,930; June 11; Gaz. vol. 179; p. 569.
Coffee substitute. D. (Robert) Woodfield. No. 87,958; Aug. 13; Gaz. vol. 181; p. 538.
Coffee substitute. Dwinell-Wright Company. No. 88,472; Sept. 24; Gaz. vol. 182; p. 966.
Coffee, tea, and spices. The Newton Tea & Spice Co. No. 86,822; June 4; Gaz. vol. 179; p. 282.
Coffee, tea, flavoring extracts, &c. Clark & Host Co. No. 86,280; Apr. 30; Gaz. vol. 177; p. 1291.
Coffee, tea, olive-oil, and flavoring extracts, Blended. Norwine Coffee Company. No. 86,082; Apr. 9; Gaz. vol. 177; p. 520.
Coffee, tea, spices, and flavoring extracts. Roth-Homeyer Coffee Co. No. 85,685; Mar. 5; Gaz. vol. 176; p. 270.
Coffees. Richheimer & Co. No. 88,423; Sept. 17; Gaz. vol. 182; p. 717.
Coffees. Royal Valley Coffee Co. No. 89,063; Nov. 5; Gaz. vol. 184; p. 283.
Coffees and certain spices, Blended. Jewett & Sherman Company. No. 85,661; Mar. 5; Gaz. vol. 176; p. 269.
Coffees and teas. Regents Publishing and Mercantile Corp. No. 87,366; July 9; Gaz. vol. 180; p. 598.
Collar-supporters. N. Illoway. No. 87,454; July 16; Gaz. vol. 180; p. 874.
Collars. Austin Reed, Limited. No. 88,788; Oct. 22; Gaz. vol. 183; p. 1029.
Collars, Horse-. Minnesota Harness Factory. No. 86,231; Apr. 23; Gaz. vol. 177; p. 1040.
Collars, Horse-. Straus, Bodenheimer Saddlery Co. No. 86,961; June 11; Gaz. vol. 179; p. 570.
Collars, Horse-. W. S. Smith. No. 87,568; July 23; Gaz. vol. 180; p. 1134.
Collars, saddles, blankets, and fly-nets, Horse. McIntyre-Burrall Company. No. 87,553; July 23; Gaz. vol. 180; p. 1134.
Collars to shirts, Devices for attaching. I. A. Ullmann. No. 87,689; July 30; Gaz. vol. 180; p. 1390.
Collars, underdrawers, undershirts, &c. Tim & Co. No. 86,009; Apr. 2; Gaz. vol. 177; p. 237.
Colors, Coal-tar. Society of Chemical Industry in Basle. No. 87,014; June 18; Gaz. vol. 179; p. 848.
Colors, Coal-tar. Society of Chemical Industry in Basle. No. 88,377; Sept. 10; Gaz. vol. 182; p. 507.
Combs, barrettes, and hair-retainers. Wilcox Comb Company. No. 85,304; Feb. 6; Gaz. vol. 175; p. 261.
Compound for preventing nickel-plating from rusting and tarnishing. A. Melohn. No. 88,103; Aug. 27; Gaz. vol. 181; p. 1068.
Compound of the radical salicyl and carbonic with soda. P. Kratz. No. 87,081; June 25; Gaz. vol. 179; p. 1102.
Computing-machines. C. Twining. No. 86,180; Apr. 16; Gaz. vol. 177; p. 767.
Concentrator and separating tables. Lodwic Concentrator Company. No. 88,763; Oct. 22; Gaz. vol. 183; p. 1028.
Condenser-tubes. Wheeler Condenser & Engineering Co. No. 86,111; Apr. 9; Gaz. vol. 177; p. 521.
Condiment. W. Horlich, Jr. No. 86,910; June 11; Gaz. vol. 179; p. 568.
Conduits for electric wiring. J. H. Parker. No. 85,284; Feb. 6; Gaz. vol. 175; p. 261.
Confection, Chocolate. Ambrosia Chocolate Company. No. 89,084; Nov. 12; Gaz. vol. 184; p. 545.
Confections and chocolates. Paul F. Beich Company. No 84,811; Jan. 9; Gaz. vol. 174; p. 579.
Construction material, Certain. Ollendorff & Clarkson. No. 85,479; Feb. 20; Gaz. vol. 175; p. 839.
Construction material, Certain. The United Gas Improvement Company. No. 85,887; Mar. 26; Gaz. vol. 176; p. 1066.
Construction material, Certain. Barrett Manufacturing Company. No. 86,268; Apr. 30; Gaz. vol. 177; p. 1291.
Construction materials, Certain. The Klein Manufacturing Company. No. 86,539; May 14; Gaz. vol. 178; p. 588.
Construction materials, Certain. Patent Vulcanite Roofing Co. No. 86,729; May 28; Gaz. vol. 178; p. 1148.
Construction materials, Certain. Vulcanite, Limited. No. 86,763; May 28; Gaz. vol. 178; p. 1149.
Construction materials, Certain. W. H. Colebrook's Sons. No. 86,788; June 4; Gaz. vol. 179; p. 281.
Construction materials, Certain. Barrett Manufacturing Company. No. 87,311; July 9; Gaz. vol. 180; p. 597.
Construction materials, Certain. United States Gypsum Co. No. 87,382; July 9; Gaz. vol. 180; p. 599.
Construction materials, Certain. William B. Hough Company. No. 88,680; Oct. 15; Gaz. vol. 183; p. 777.
Cookers, Fireless. Traverse City Refrigerator Co. No. 87,125; June 25; Gaz. vol. 179; p. 1104.
Cookers, Fireless. S. S. Thomas. No. 87,497; July 16; Gaz. vol. 180; p. 876.
Cookers, Fireless. The Diller Manufacturing Company. No. 88,558; Oct. 1; Gaz. vol. 183; p. 213.
Cookers, Fireless. Mika Cooker Company. No. 88,912; Oct. 29; Gaz. vol. 183; p. 1303.
Cooking and household utensils. Geo. Borgfeldt & Co. No. 87,597; July 30; Gaz. vol. 180; p. 1387.
Cooking compound. The N. K. Fairbank Company. No. 85,905; Mar. 26; Gaz. vol. 176; p. 1066.
Cooking compound, Oleaginous. Getz Bros. & Co. No. 87,203; July 2; Gaz. vol. 180; p. 317.
Coops and houses, nests, feed-boxes, &c., Chicken. L. A. Hills. No. 85,348; Feb. 13; Gaz. vol. 175; p. 538.

Alphabetical list of trade-marks—Continued.

Copying cloths, Letter-. Tower Manufacturing & Novelty Co. No. 88,976; Oct. 29; Gaz. vol. 183; p. 1305.
Cordage. Edwin H. Fitler Co. No. 87,616; July 30; Gaz. vol. 180; p. 1388.
Cordial, Distilled anisette. The Nectar Company. No. 89,051; Nov. 5; Gaz. vol. 184; p. 282.
Cordials. P. Newton. No. 85,875; Mar. 26; Gaz. vol. 176; p. 1066.
Cordials. Dr. J. G. B. Siegert & Hijos. No. 86,097; Apr. 9; Gaz. vol. 177; p. 521.
Cordials. B. & O. Schrank. No. 87,664; July 30; Gaz. vol. 180; p. 1389.
Corduroy and velvet piece goods. N. Erlanger, Blumgart & Co. No. 88,175; Sept. 3; Gaz. vol. 182; p. 243.
Corks, caps, capsules, and bottle-sealing devices. The Viscose Development Co. No. 89,164; Nov. 12; Gaz. vol. 184; p. 547.
Corn and bunion plaster. Aseptic Products Company. No. 88,825; Oct. 29; Gaz. vol. 183; p. 1301.
Corn and bunion shields. J. J. Georges & Son. No. 85,575; Feb. 27; Gaz. vol. 175; p. 1094.
Corn-graders and concrete-mixers. Standard Manufacturing Company. No. 89,159; Nov. 12; Gaz. vol. 184; p. 547.
Corn-shellers. King & Hamilton Co. Nos. 89,469–71; Dec. 17; Gaz. vol. 185; p. 824.
Corn-starch. National Starch Company. No. 84,851; Jan. 9; Gaz. vol. 174; p. 580.
Corn-starch. National Starch Co. No. 87,244; July 2; Gaz. vol. 180; p. 318.
Corn-starch. National Starch Co. No. 87,357; July 9; Gaz. vol. 180; p. 598.
Corn-starch and food-starch. C. Morningstar & Co. No. 85,368; Feb. 13; Gaz. vol. 175; p. 538.
Cornmeal. McDonald Milling Company. No. 85,670; Mar. 5; Gaz. vol. 176; p. 270.
Cornmeal. Davis Milling Company. No. 87,174; July 2; Gaz. vol. 180; p. 316.
Cornets, trumpets, and drums. Hawkes & Son. No. 88,487; Sept. 24; Gaz. vol. 182; p. 966.
Corset and under waists. Birdsey-Somers Co. No. 85,644; Mar. 5; Gaz. vol. 176; p. 269.
Corset-covers, brassières, and sanitary aprons. Weingarten Bros. No. 88,142; Aug. 27; Gaz. vol. 181; p. 1070.
Corset-covers, drawers, bloomers, and petticoats. The Dielhenn Manufacturing Co. No. 88,068; Aug. 27; Gaz. vol. 181; p. 1067.
Corset-stays. National Whalebone Co. No. 86,233; Apr. 23; Gaz. vol. 177; p. 1040.
Corset steels or bones. Royal Worcester Corset Co. No. 86,621; May 21; Gaz. vol. 178; p. 880.
Corset-stiffeners. Gage-Downs Company. No. 86,051; Apr. 9; Gaz. vol. 177; p. 520.
Corsets. Artists' Model Corset Company. No. 85,055; Jan. 30; Gaz. vol. 174; p. 1211.
Corsets. Weingarten Bros. No. 85,301; Feb. 6; Gaz. vol. 175; p. 261.
Corsets. Loveman, Joseph & Loeb. No. 85,458; Feb. 20; Gaz. vol. 175; p. 838.
Corsets. Société des Etablissements Farcy & Oppenheim. No. 85,508; Feb. 20; Gaz. vol. 175; p. 840.
Corsets. The Hawes Corset Co. No. 85,656; Mar. 5; Gaz. vol. 176; p. 269.
Corsets. Weingarten Bros. No. 85,698; Mar. 5; Gaz. vol. 176; p. 270.
Corsets. Madame Irène. Nos. 85,968–9; Apr. 2; Gaz. vol. 177; p. 236.
Corsets. Lily of France Corset Co. No. 85,973; Apr. 2; Gaz. vol. 177; p. 236.
Corsets. R. Litke. No. 85,974; Apr. 2; Gaz. vol. 177; p. 236.
Corsets. American Lady Corset Company. No. 86,364; May 7; Gaz. vol. 178; p. 313.
Corsets. Birdsey-Somers Co. No. 86,508; May 14; Gaz. vol. 178; p. 587.
Corsets. Jackson Corset Company. No. 86,995; June 18; Gaz. vol. 179; p. 847.
Corsets. J. Siegel. No. 87,565; July 23; Gaz. vol. 180; p. 1134.
Corsets. Chas. A. Stevens & Bros. No. 87,573; July 23; Gaz. vol. 180; p. 1134.
Corsets. The 14th Street Store. No. 87,870; Aug. 13; Gaz. vol. 181; p. 536.
Corsets. A. Rockowitz. No. 88,118; Aug. 27; Gaz. vol. 181; p. 1069.
Corsets. J. Siegel. No. 88,123; Aug. 27; Gaz. vol. 181; p. 1069.
Corsets. American Lady Corset Company. No. 88,228; Sept. 10; Gaz. vol. 182; p. 503.
Corsets. B. Altman & Co. Nos. 88,721–3; Oct. 22; Gaz. vol. 183; p. 1027.
Corsets. Madame Irene. No. 88,758; Oct. 22; Gaz. vol. 183; p. 1028.
Corsets. The Warner Bros. Co. No. 88,812; Oct. 22; Gaz. vol. 183; p. 1029.
Corsets. Birdsey-Somers Company. No. 89,333; Dec. 10; Gaz. vol. 185; p. 519.
Corsets. Madame Irène. No. 89,663; Dec. 31; Gaz. vol. 185; p. 1375.
Corsets and brassières. Modart Corset Company. No. 88,772; Oct. 22; Gaz. vol. 183; p. 1028.
Corsets and corset-pads. Kops Bros. No. 85,139; Jan. 30; Gaz. vol. 174; p. 1213.
Corsets, corset-waists, brassières, and underwaists. The Crown Corset Company. No. 85,084; Jan. 30; Gaz. vol. 174; p. 1212.
Cotton, Absorbent. Hygienic Fibre Company. Nos. 87,763–4; Aug. 6; Gaz. vol. 181; p. 261.
Cotton, Absorbent. Hygienic Fibre Company. No. 88,494; Sept. 24; Gaz. vol. 182; p. 966.
Cotton, Absorbent. Hygienic Fibre Company. Nos. 89,113–14; Nov. 12; Gaz. vol. 184; p. 546.
Cotton and linen mesh cloth. Deimel Linen Mesh System Company. No. 89,013; Nov. 5; Gaz. vol. 184; p. 281.
Cotton and linen piece goods. Trippe, Barker & Co. No. 85,836; Mar. 19; Gaz. vol. 176; p. 746.
Cotton and linen piece goods. Trippe, Barker & Co. No. 86,179; Apr. 16; Gaz. vol. 177; p. 767.
Cotton and silk and cotton piece goods. C. A. Colman Co. No. 87,523; July 23; Gaz. vol. 180; p. 1133.
Cotton converted goods. Titus Blatter & Co. No. 85,727; Mar. 12; Gaz. vol. 176; p. 521.
Cotton dometts and flanneis. Brogon Mills. No. 84,932; Jan. 16; Gaz. vol. 174; p. 823.
Cotton dress goods. Marshall Field & Company. No. 86,900; June 11; Gaz. vol. 179; p. 568.
Cotton duck. Geo. B. Carpenter & Co. No. 86,380; May 7; Gaz. vol. 178; p. 313.
Cotton duck. Geo. B. Carpenter & Co. No. 86,878; June 11; Gaz. vol. 179; p. 567.
Cotton duck. Kansas City Cotton Mills Company. No. 87,079; June 25; Gaz. vol. 179; p. 1102.
Cotton duck. Geo. B. Carpenter & Co. No. 88,058; Aug. 27; Gaz. vol. 181; p. 1067.
Cotton duck in the piece. J. H. Meyer & Co. No. 88,768; Oct. 22; Gaz. vol. 183; p. 1028.
Cotton fabrics in the piece. Garner Print Works & Bleachery. No. 88,747; Oct. 22; Gaz. vol. 183; p. 1027.
Cotton fabrics, Woven. Minot, Hooper & Co. No. 87,464; July 16; Gaz. vol. 180; p. 875.
Cotton, linen, silk, and woolen fabrics in the piece. J. Hirsch & Sons. No. 89,357; Dec. 10; Gaz. vol. 185; p. 520.
Cotton, linen, silk, woolen, &c., piece goods. E. Rosenfeld & Company. No. 85,684; Mar. 5; Gaz. vol. 176; p. 270.
Cotton piece and dress goods. Lancaster Mills. No. 86,414; May 7; Gaz. vol. 178; p. 314.
Cotton piece goods. Amoskeag Manufacturing Company. No. 84,924; Jan. 16; Gaz. vol. 174; p. 823.
Cotton piece goods. Atlantic Cotton Mills. No. 85,314; Feb. 13; Gaz. vol. 175; p. 537.
Cotton piece goods. Atlantic Cotton Mills. No. 85,545; Feb. 27; Gaz. vol. 175; p. 1093.
Cotton piece goods. M. Rosenstein. No. 85,768; Mar. 12; Gaz. vol. 176; p. 522.
Cotton piece goods. Bates Manufacturing Company. No. 86,025; Apr. 9; Gaz. vol. 177; p. 519.
Cotton piece goods. Blackstone Mfg. Company. No. 86,028; Apr. 9; Gaz. vol. 177; p. 519.
Cotton piece goods. Hope Company. No. 86,061; Apr. 9; Gaz. vol. 177; p. 520.
Cotton piece goods. Lonsdale Company. Nos. 86,071–3; Apr. 9; Gaz. vol. 177; p. 520.
Cotton piece goods. Fall River Bleachery. No. 86,292; Apr. 30; Gaz. vol. 177; p. 1292.
Cotton piece goods. Mustard & Company. Nos. 86,316–17; Apr. 30; Gaz. vol. 177; p. 1292.
Cotton piece goods. Amoskeag Manufacturing Company. Nos. 86,366–8; May 7; Gaz. vol. 178; p. 313.
Cotton piece goods. Mustard & Company. No. 86,433; May 7; Gaz. vol. 178; p. 315.
Cotton piece goods. W. A. Greer. No. 86,586; May 21; Gaz. vol. 178; p. 879.
Cotton piece goods. C. A. Stewart. No. 86,743; May 28; Gaz. vol. 178; p. 1149.
Cotton piece goods. A. G. Hyde & Sons. No. 87,341; July 9; Gaz. vol. 180; p. 598.
Cotton piece goods. Otis Company. No. 87,559; July 23; Gaz. vol. 180; p. 1134.
Cotton piece goods. Childs, Parr & Joseph. No. 87,852; Aug. 13; Gaz. vol. 181; p. 535.
Cotton piece goods. Garner Print Works & Bleachery. Nos. 87,874–7; Aug. 13; Gaz. vol. 181; p. 536.
Cotton piece goods. Garner Print Works & Bleachery. No. 88,178; Sept. 3; Gaz. vol. 182; p. 244.
Cotton piece goods. Lortex Company. No. 88,188; Sept. 3; Gaz. vol. 182; p. 244.
Cotton piece goods. Nathan & Greer Co. No. 88,777; Oct. 22; Gaz. vol. 183; p. 1028.
Cotton piece goods. T. A. Shaw and Co. No. 88,792; Oct. 22; Gaz. vol. 183; p. 1029.
Cotton piece goods. J. S. Bernheimer & Bro. No. 89,088; Nov. 12; Gaz. vol. 184; p. 545.
Cotton piece goods. Fall River Bleachery. No. 89,453; Dec. 17; Gaz. vol. 185; p. 823.
Cotton piece goods and blankets. Nashua Manufacturing Company. No. 87,647; July 30; Gaz. vol. 180; p. 1389.
Cotton piece goods, Dyed. Otto Goetze Co. No. 85,807; Mar. 19; Gaz. vol. 176; p. 745.

Alphabetical list of trade-marks—Continued.

Cotton piece goods, sheetings, shirtings, and drills. Suffern & Company. No. 86,251; Apr. 23; Gaz. vol. 177; p. 1040.
Cotton piece goods, sheetings, shirtings, and drills. Suffern & Company. No. 87,680; July 30; Gaz. vol. 180; p. 1390.
Cotton piece goods, sheetings, shirtings, and drills. Suffern & Company. No. 88,800; Oct. 22; Gaz. vol. 183; p. 1029.
Cotton plaids, Woven. Neuss, Hesslein & Co. No. 87,555; July 23; Gaz. vol. 180; p. 1134.
Cotton-seed meal and cake. The Exchange Cotton and Linseed Meal Company. No. 85,424; Feb. 20; Gaz. vol. 175; p. 837.
Cotton textiles. Jenckes Spinning Company. No. 87,769; Aug. 6; Gaz. vol. 181; p. 261.
Cotton, worsted, and woolen dress goods and shirtings. David & John Anderson. No. 87,403; July 16; Gaz. vol. 180; p. 873.
Couches. Presto-Couch Co. No. 88,946; Oct. 29; Gaz. vol. 183; p. 1304.
Cough mixture. Osbon and Osbon Chemical Co. No. 85,611; Feb. 27; Gaz. vol. 175; p. 1095.
Coupons, Trading-. The I. O. J. Company. No. 84,747; Jan. 2; Gaz. vol. 174; p. 284.
Court-plaster substitute. Newskin Company. No. 86,440; May 7; Gaz. vol. 178; p. 315.
Crab-meat. H. Dubler. No. 85,090; Jan. 30; Gaz. vol. 174; p. 1212.
Crackers. The Green & Green Company. No. 85,741; Mar. 12; Gaz. vol. 176; p. 521.
Crackers. The Green & Green Company. No. 86,052; Apr. 9; Gaz. vol. 177; p. 520.
Crackers. Bishop & Company. No. 87,594; July 30; Gaz. vol. 180; p. 1387.
Crackers and biscuits. H. Fletcher Co. No. 86,293; Apr. 30; Gaz. vol. 177; p. 1292.
Crackers and biscuits. Perfection Biscuit Company. No. 88,945; Oct. 29; Gaz. vol. 183; p. 1304.
Crackers and cakes. O. B. Gilman. No. 85,432; Feb. 20; Gaz. vol. 175; p. 838.
Crackers, cakes, candy, and pastes. Kahn-Beck Company. No. 89,374; Dec. 10; Gaz. vol. 185; p. 520.
Cravats. J. J. Riker & Co. No. 88,789; Oct. 22; Gaz. vol. 183; p. 1029.
Crayons. Binney & Smith Company. No. 89,531; Dec. 24; Gaz. vol. 185; p. 1049.
Cream and foot-powder, Almond, complexion, and deodorizing. Cameo Manufacturing Company. No. 85,322; Feb. 13; Gaz. vol. 175; p. 537.
Cream and hair-pomade, Face-. O. Meizinger. No. 89,128; Nov. 12; Gaz. vol. 184; p. 546.
Cream and powder and hair-tonic, Face. J. A. Norton. No. 86,823; June 4; Gaz. vol. 179; p. 282.
Cream and powder, shampooing preparations, &c., Face. E. L. Leifchild. No. 88,897; Oct. 29; Gaz. vol. 183; p. 1303.
Cream and powder, Toilet. F. Frankle. No. 85,430; Feb. 20; Gaz. vol. 175; p. 838.
Cream, Antiseptic shaving-. W. P. Quentell. No. 88,950; Oct. 29; Gaz. vol. 183; p. 1304.
Cream, Cold-. New England Laboratory Company. No. 84,791; Jan. 2; Gaz. vol. 174; p. 285.
Cream, cold and grippe capsules, and stomach medicine, Cold-. Gilbert and Horner. No. 87,533; July 23; Gaz. vol. 180; p. 1133.
Cream, Cosmetic. R. C. Thomas. No. 86,109; Apr. 9; Gaz. vol. 177; p. 521.
Cream, Face-. J. Fleischman. No. 85,100; Jan. 30; Gaz. vol. 174; p. 1212.
Cream, Face-. E. Toby. No. 85,525; Feb. 20; Gaz. vol. 175; p. 840.
Cream, Face-. S. Picard & Brothers. No. 87,802; Aug. 6; Gaz. vol. 181; p. 262.
Cream, Facial. C. B. Heizer. No. 88,876; Oct. 29; Gaz. vol. 183; p. 1302.
Cream for the skin. L. G. Domar. No. 85,901; Mar. 26; Gaz. vol. 176; p. 1066.
Creams and powders, Face. C. H. Yates. No. 89,404; Dec. 10; Gaz. vol. 185; p. 521.
Creams, Cold and greaseless. Aubry Sisters. No. 84,715; Jan. 2; Gaz. vol. 174; p. 283.
Creams, Face-. T. C. Booth. No. 85,701; Mar. 5; Gaz. vol. 176; p. 270.
Creams, Facial and massage. J. S. Lees. No. 89,381; Dec. 10; Gaz. vol. 185; p. 520.
Creams, powders, and rouge, Face. L. Philippe. No. 87,479; July 16; Gaz. vol. 180; p. 875.
Creams, rouge, &c., Facial. Bordeaux Chemical Works. No. 88,835; Oct. 29; Gaz. vol. 183; p. 1301.
Creams, rouges, powder-pastes, &c., Massage-. Elmo Sisters. No. 87,529; July 23; Gaz. vol. 180; p. 1133.
Crucibles. The Morgan Crucible Company. No. 89,485; Dec. 17; Gaz. vol. 185; p. 824.
Cultivators. Atlanta Agricultural Works. No. 85,897; Mar. 26; Gaz. vol. 176; p. 1066.
Cultivators, harrows, and drills. Roderick Lean Manufacturing Company. No. 87,084; June 25; Gaz. vol. 179; p. 1102.
Culverts, Nestable corrugated. The Canton Culvert Company. No. 88,240; Sept. 10; Gaz. vol. 182; p. 503.
Currants. W. Hills, Jr. No. 89,656; Dec. 31; Gaz. vol. 185; p. 1374.
Curtain poles, rods, brackets, &c., Wooden. The Roos Manufacturing Co. No. 89,203; Nov. 19; Gaz. vol. 184; p. 800.
Curtains, Nottingham cotton-lace. T. I. Birkin & Co. No. 86,122; Apr. 16; Gaz. vol. 177; p. 765.
Curtains, pillow-shams, and lace coverlets. D. V. Green. No. 85,244; Feb. 6; Gaz. vol. 175; p. 260.
Cuspidors, Metal. The Jacob J. Vollrath Mfg. Co. No. 89,210; Nov. 19; Gaz. vol. 184; p. 800.
Cuticle-remover, Liquid. N. Warren. No. 86,257; Apr. 23; Gaz. vol. 177; p. 1040.
Cutlery and tools, Certain. Norvell-Shapleigh Hardware Company. No. 86,499; May 7; Gaz. vol. 178; p. 317.
Cutlery and tools, Certain named. Scharkefa Scharke & Co. No. 87,934; Aug. 13; Gaz. vol. 181; p. 537.
Cutlery and tools, Certain named. The Collins Company. No. 87,980; Aug. 20; Gaz. vol. 181; p. 815.
Cutlery and tools, Certain named. The Collins Company. No. 88,164; Sept. 3; Gaz. vol. 182; p. 243.
Cutlery and tools, Certain named. The Collins Company. No. 89,538; Dec. 24; Gaz. vol. 185; p. 1049.
Cutlery and tools, Certain named. The Collins Company. No. 89,626; Dec. 31; Gaz. vol. 185; p. 1374.
Cutlery and tools, Certain named. Henry Disston & Sons. No. 89,631; Dec. 31; Gaz. vol. 185; p. 1374.
Cutlery, Certain kinds of. The Enterprise Manufacturing Company. No. 85,904; Mar. 26; Gaz. vol. 176; p. 1066.
Cutlery, Certain kinds of. A. O. Meyer. No. 86,609; May 21; Gaz. vol. 178; p. 880.
Cutlery, machinery, and tools, and parts thereof. The A. J. Harwi Hardware Company. No. 86,588; May 21; Gaz. vol. 178; p. 879.
Cutlery, machinery, and tools, and parts thereof. The S. Howes Company. No. 86,594; May 21; Gaz. vol. 178; p. 879.
Cutlery, machinery, and tools, and parts thereof. Adriance, Platt & Co. No. 86,863; June 11; Gaz. vol. 179; p. 567.
Cutlery, machinery, and tools, and parts thereof, Certain. Sanderson Brothers & Newbould. No. 86,941; June 11; Gaz. vol. 179; p. 569.
Cutlery, machinery, and tools, and parts thereof, Certain. De Vilbiss Manufacturing Company. No. 87,175; July 2; Gaz. vol. 180; p. 316.
Cutlery, machinery, and tools, Certain named. C. M. McClung & Co. No. 88,193; Sept. 3; Gaz. vol. 182; p. 244.
Cutlery, machinery, tools, and parts thereof, Certain named. Tampa Hardware Co. No. 88,805; Oct. 22; Gaz. vol. 183; p. 1029.
Cutters and holders therefor, Certain. The O. K. Tool Holder Company. No. 85,675; Mar. 5; Gaz. vol. 176; p. 270.
Cutworm-exterminator. G. L. Warncke & Co. No. 87,829; Aug. 6; Gaz. vol. 181; p. 262.
Cycle seat-supports, Motor-. Harley-Davidson Motor Co. No. 87,884; Aug. 13; Gaz. vol. 181; p. 536.
Cycles, Motor-. Armac Motor Co. No. 84,928; Jan. 16; Gaz. vol. 174; p. 823.
Dairy machinery, Certain named. Rutland Mfg. Company. No. 89,148; Nov. 12; Gaz. vol. 184; p. 547.
Dates. U. H. Dudley & Company. No. 89,234; Dec. 3; Gaz. vol. 185; p. 243.
Dates. W. Hills, Jr. No. 89,655; Dec. 31; Gaz. vol. 185; p. 1374.
Decarbonizing compounds. A. L. Rea. No. 85,616; Feb. 27; Gaz. vol. 175; p. 1095.
Dental and surgical cabinets, operating-stools, &c. L. S. Smith & Son Co. No. 85,047; Jan. 23; Gaz. vol. 174; p. 1023.
Dental broaches. The O. H. Tracy Co. No. 88,534; Sept. 24; Gaz. vol. 182; p. 967.
Dental burs and drills. F. W. Lutz & Co. No. 89,565; Dec. 24; Gaz. vol. 185; p. 1050.
Dental foils for filling teeth. The Meier Dental Manufacturing Company. No. 87,782; Aug. 6; Gaz. vol. 181; p. 261.
Dental, medical, and surgical appliances, Certain. The Star Rubber Co Nos. 86,738–41; May 28; Gaz. vol. 178; p. 1148.
Dental, medical, and surgical appliances, Certain. The Star Rubber Co. No. 86,749; May 28; Gaz. vol. 178; p. 1149.
Dental, medical, and surgical appliances, Certain. Tower Manufacturing & Novelty Co. No. 86,838; June 4; Gaz. vol. 179; p. 283.
Dentifrice. A. Vève. No. 86,489; May 7; Gaz. vol. 178; p. 317.
Deodorizers and disinfectants. West Disinfecting Company. No. 86,650; May 21; Gaz. vol. 178; p. 881.
Deodorizers, disinfectants, powder, rouge, &c. E. Schäffer. No. 89,296; Dec. 3; Gaz. vol. 185; p. 245.
Designs, drawings, circulars, &c. A. A. Armington. No. 89,326; Dec. 10; Gaz. vol. 185; p. 519.
Desks, bedsteads, dressers, chiffonniers, &c. Wm. A. French & Company. No. 87,198; July 2; Gaz. vol. 180; p. 316.

Detergents and polishing materials, Certain. Hamilton Co. No. 84,740; Jan. 2; Gaz. vol. 174; p. 284.
Dietetic preparations. Bauer & Cie. No. 86.776; June 4; Gaz. vol. 179; p. 281.
Dietetic preparations. Bauer & Cie. No. 87,146; July 2; Gaz. vol. 180; p. 315.
Digestive-ferment product. G. W. Carnrick Company. No. 85,704; Mar. 5; Gaz. vol. 176; p. 271.
Disci. W. Berg. No. 88,052; Aug. 27; Gaz. vol. 181; p. 1067.
Disinfectant. L. Richmond & Co. No. 85,495; Feb. 20; Gaz. vol. 175; p. 839.
Disinfectant. Farbenfabriken of Elberfeld Company. No. 86,212; Apr. 23; Gaz. vol. 177; p. 1039.
Disinfectant. L. Sonneborn Sons. No. 86,248; Apr. 23; Gaz. vol. 177; p. 1040.
Disinfectant and astringent remedy. J. A. Wülfing. No. 84,922; Jan. 9; Gaz. vol. 174; p. 582.
Disinfectant and cleaner for carpets, clothing, &c. M. J. Dunn. No. 89,235; Dec. 3; Gaz. vol. 185; p. 243.
Disinfectant and germicide. The Hoffmann-La Roche Chemical Works. No. 88,678; Oct. 15; Gaz. vol. 183; p. 777.
Disinfectants, &c. Barrett Manufacturing Company. No. 85,792; Mar. 19; Gaz. vol. 176; p. 745.
Disinfectants. F. Bloch. No. 89,334; Dec. 10; Gaz. vol. 185; p. 519.
Disinfectants and insecticides. Barrett Manufacturing Company. Nos. 86,774–5; June 4; Gaz. vol. 179; p. 281.
Disinfectants, insecticides, and pharmaceutical preparations. The James Blanchard Company. No. 88,157; Sept. 3; Gaz. vol. 182; p. 243.
Disinfecting devices. F. Baumgardt. No. 86,372; May 7; Gaz. vol. 178; p. 313.
Disinfecting fluid. West Disinfecting Company. No. 84,772; Jan. 2; Gaz. vol. 174; p. 284.
Disinfecting means for mouth and throat. Bauer & Cie. Nos. 84,896–7; Jan. 9; Gaz. vol. 174; p. 582.
Disinfecting means for mouth and throat. Bauer & Cie. No. 88,829; Oct. 29; Gaz. vol. 183; p. 1301.
Display-cabinets. Howland and Wheaton Company. No. 85,352; Feb. 13; Gaz. vol. 175; p. 538.
Display-figures. E. T. Palmenberg. No. 86,324; Apr. 30; Gaz. vol. 177; p. 1292.
Distributers, seeders, and seeding-machines. Sester Mfg. Co. No. 87,263; July 2; Gaz. vol. 180; p. 318.
Dolls. Mitred Box Company. No. 85,980; Apr. 2; Gaz. vol. 177; p. 236.
Dolls. Geo. Borgfeldt & Co. No. 88,161; Sept. 3; Gaz. vol. 182; p. 243.
Doors. Paine Lumber Company. No. 89,693; Dec. 31; Gaz. vol. 185; p. 1376.
Doors, windows, and moldings, Metal. Kawneer Mfg. Co. No. 85,449; Feb. 20; Gaz. vol. 175; p. 838.
Doors, windows, blinds, moldings, &c. Farley & Loetscher Manufacturing Co. No. 87,614; July 30; Gaz. vol. 180; p. 1388.
Draftsman's tools. Keuffel & Esser Company. No. 89,272; Dec. 3; Gaz. vol. 185; p. 244.
Drawers, corset-covers, &c. The M. Wilber Dyer Company. No. 87,737; Aug. 6; Gaz. vol. 181; p. 260.
Drawings, plans, &c. P. Roveda. No. 87,811; Aug. 6; Gaz. vol. 181; p. 262.
Dredges and power-shovels. The Marion Steam Shovel Co. No. 88,630; Oct. 8; Gaz. vol. 183; p. 499.
Dress and shirt waists. Krohnberg & Krohnberg. No. 88,309; Sept. 10; Gaz. vol. 182; p. 505.
Dress goods and cloths in the piece, Certain named. J. Hirsch & Sons. No. 89,356; Dec. 10; Gaz. vol. 185; p. 520.
Dress goods and cloths in the piece, Certain named. J. Hirsch & Sons. No. 89,358; Dec. 10; Gaz. vol. 185; p. 520.
Dress-shields. I. B. Kleinert Rubber Company. No. 85,451; Feb. 20; Gaz. vol. 175; p. 838.
Dress-shields. S. Kann Sons & Co. Nos. 85,588–90; Feb. 27; Gaz. vol. 175; p. 1094.
Dress-shields. S. Kann Sons & Co. No. 85,600; Feb. 27; Gaz. vol. 175; p. 1094.
Dress-shields. Sanitary Skirt Shield Co. No. 85,883; Mar. 26; Gaz. vol. 176; p. 1066.
Dress-shields. I. B. Kleinert Rubber Company. No. 86,540; May 14; Gaz. vol. 178; p. 588.
Dress-shields. I. B. Kleinert Rubber Company. No. 87,897; Aug. 13; Gaz. vol. 181; p. 536.
Dresses. A. Rosenberg & Sons. No. 86,160; Apr. 16; Gaz. vol. 177; p. 766.
Dresses. Detroit Garment Manufacturing Company. No. 87,527; July 23; Gaz. vol. 180; p. 1133.
Dresses, Ladies' tub-. Henry A. Dix & Sons Company. No. 86,287; Apr. 30; Gaz. vol. 177; p. 1291.
Dresses, Silk and cotton. Goldman Costume Company. No. 85,808; Mar. 19; Gaz. vol. 176; p. 745.
Dresses, skirts, and petticoats. J. A. Herman. No. 84,963; Jan. 16; Gaz. vol. 174; p. 824.
Dresses, Women's and children's. J. M. Sterngold. No. 89,712; Dec. 31; Gaz. vol. 185; p. 1376.
Dressers, chiffonniers, commodes, &c. French & Heald Co. No. 86,525; May 14; Gaz. vol. 178; p. 587.
Dried blood and albumen. J. Morningstar. No. 85,469; Feb. 20; Gaz. vol. 175; p. 839.
Dry cells. National Carbon Company. Nos. 87,470–1; July 16; Gaz. vol. 180; p. 875.
Dry cells. National Carbon Company. Nos. 87,650–1; July 30; Gaz. vol. 180; p. 1389.
Dry cells. National Carbon Company. No. 88,016; Aug. 20; Gaz. vol. 181; p. 816.
Dry cells. National Carbon Company. Nos. 88,194–5; Sept. 3; Gaz. vol. 182; p. 244.
Dry cells. National Carbon Company. No. 88,341; Sept. 10; Gaz. vol. 182; p. 506.
Dry cells. National Carbon Company. Nos. 88,634–7; Oct. 8; Gaz. vol. 183; p. 499.
Dry cells. National Carbon Company. No. 89,050; Nov. 5; Gaz. vol. 184; p. 282.
Dry cells. National Carbon Company. No. 89,413; Dec. 10; Gaz. vol. 185; p. 521.
Dry cells. National Carbon Company. No. 89,684; Dec. 31; Gaz. vol. 185; p. 1375.
Drilling, reaming, tapping, &c., machines. The National Automatic Tool Company. No. 89,486; Dec. 17; Gaz. vol. 185; p. 824.
Drills, reamers, and milling-cutters. R. Stock & Co., Spiralbohrer-Werkzeug und Maschinenfabrik Aktiengesellschaft. No. 86,959; June 11; Gaz. vol. 179; p. 570.
Drinking-cups. Thermolac Manufacturing Company. No. 85.523; Feb. 20; Gaz. vol. 175; p. 840.
Drinking-cups, Metal. Behrend & Rothschild. No. 86,569; May 21; Gaz. vol. 178; p. 879.
Drinking-fountains, Sanitary. The Massachusetts Sanitary Appliance Company. No. 88,102; Aug. 27; Gaz. vol. 181; p. 1068.
Drinking-pans of metal, Poultry. A. J. Ehler. No. 89,348; Dec. 10; Gaz. vol. 185; p. 519.
Duck. William L. Barrell Co. No. 84,809; Jan. 9; Gaz. vol. 174; p. 579.
Duck. William L. Barrell Co. No. 84,895; Jan. 9; Gaz. vol. 174; p. 582.
Ducking, Canvas. Fulton Bag & Cotton Mills. No. 89,552; Dec. 24; Gaz. vol. 185; p. 1049.
Dust-cloths. Chicago Feather Duster Co. No. 85.413; Feb. 20; Gaz. vol. 175; p. 837.
Dust-cloths. Dunlap Manufacturing Company. No. 87,736; Aug. 6; Gaz. vol. 181; p. 260.
Dust-cloths and broom-covers. E. J. Funk. No. 85,959; Apr. 2; Gaz. vol. 177; p. 235.
Dusters. Hayes Duster Company. No. 84,961; Jan. 16; Gaz. vol. 174; p. 824.
Dyes. W. D. Baker. No. 86,371; May 7; Gaz. vol. 178; p. 313.
Dyes. R. Wedekind & Co., G. m. b. H. No. 86,848; June 4; Gaz. vol. 179; p. 283.
Dyes, Coal-tar. Farbenfabriken of Elberfeld Company. No. 89,454; Dec. 17; Gaz. vol. 185; p. 823.
Dyes, Textile-. George Pickering & Co. No. 87.922; Aug. 13; Gaz. vol. 181; p. 537.
Dynamite. Independent Powder Co. of Missouri. No. 87,343; July 9; Gaz. vol. 180; p. 598.
Dynamite. The Potts Powder Company. No. 88,201; Sept. 3; Gaz. vol. 182; p. 244.
Dynamite and powder. Independent Powder Company of Missouri. No. 85,353; Feb. 13; Gaz. vol. 175; p. 538.
Dynamos and electric ignition apparatus. Sumter Telephone Mfg. Co. No. 87,682; July 30; Gaz. vol. 180; p. 1390.
Egg-beaters. Berndorf Metal Works Arthur Krupp. No. 88,831; Oct. 29; Gaz. vol. 183; p. 1301.
Egg-beaters, cream-whippers, &c. J. Hutchinson. No. 88,297; Sept. 10; Gaz. vol. 182; p. 505.
Egg-preserving compound. Garantol-Gesellschaft mit beschränkter Haftung. No. 84,954; Jan. 16; Gaz. vol. 174; p. 824.
Egg-white preparation. The Cabell Company. No. 88,839; Oct. 29; Gaz. vol. 183; p. 1301.
Eggs. Lucas Produce Company. No. 86,918; June 11; Gaz. vol. 179; p. 568.
Eggs. California Central Creameries. No. 88,840; Oct. 29; Gaz. vol. 183; p. 1301.
Eggs. The Pinkett Brothers Commission Company. No. 89,060; Nov. 5; Gaz. vol. 184; p. 283.
Eggs and egg preparations. Columbia G. m. b. H. No. 87,428; July 16; Gaz. vol. 180; p. 874.
Ejectors. The United Injector Company. No. 88,644; Oct. 8; Gaz. vol. 183; p. 500.
Elastic lisle webbing. Dieckerhoff, Raffloer & Co. No. 86,518; May 14; Gaz. vol. 178; p. 587.
Elastic webbing. Boston Gore and Web Manufacturing Company. No. 84,931; Jan. 16; Gaz. vol. 174; p. 823.
Elastic webbing. Boston Gore and Web Manufacturing Company. No. 85,225; Feb. 6; Gaz. vol. 175; p. 259.
Elastic webbing. Kops Bros. No. 89,034; Nov. 5; Gaz. vol. 184; p. 282.
Elastic webbing. Kops Bros. No. 89,379; Dec. 10; Gaz. vol. 185; p. 520.
Elastic webbing. The American Mills Company of New York. No. 89,599; Dec. 31; Gaz. vol. 185; p. 1373.
Elastic webs. T. Martin & Bro. Mfg. Co. No. 86,606; May 21; Gaz. vol. 178; p. 880.

Alphabetical list of trade-marks—Continued.

Electric apparatus and supplies, Certain. "Selas" Gesellschaft mit beschränkter Haftung. No. 86,095; Apr. 9; Gaz. vol. 177; p. 521.
Electric apparatus, Certain. Dyneto Electric Company. No. 85,422; Feb. 20; Gaz. vol. 175; p. 837.
Electric-arc-light carbons. C. Conradty (Inhaber Pauline & Eugen Conradty) Fabrik elektrischer u. galvanischer Kohlen. No. 85,079; Jan. 30; Gaz. vol. 174; p. 1211.
Electric batteries. Van Antwerp's Drug Corporation. No. 88,983; Oct. 29; Gaz. vol. 183; p. 1305.
Electric fuse-blocks. Siemens-Schuckertwerke Gesellschaft mit beschränkter Haftung. Nos. 85,503–5; Feb. 20; Gaz. vol. 175; p. 840.
Electric generators, Magneto-. Hercules Electric Company. No. 86,802; June 4; Gaz. vol. 179; p. 282.
Electric-machine brushes, Dynamo-. General Electric Company. No. 86,705; May 28; Gaz. vol. 178; p. 1147.
Electric machines, Dynamo-. The Dean Electric Company. No. 88,471; Sept. 24; Gaz. vol. 182; p. 966.
Electric meters. Korting & Mathiesen A.-G. No. 85,257; Feb. 6; Gaz. vol. 175; p. 260.
Electric motors, dynamos, generating sets, &c. B. F. Sturtevant Company. No. 89,714; Dec. 31; Gaz. vol. 185; p. 1376.
Electric relays. The Dean Electric Company. No. 88,168; Sept. 3; Gaz. vol. 182; p. 243.
Electric sockets and receptacles. Arrow Electric Company. No. 86,119; Apr. 16; Gaz. vol. 177; p. 765.
Electric wirings, Conduits for. The Conduit & Cable Manufacturing Company. No. 86,386; May 7; Gaz. vol. 178; p. 314.
Electrical apparatus and supplies. Peoria Electric Fixture Co. No. 87,102; June 25; Gaz. vol. 179; p. 1103.
Electrical apparatus and supplies. Hugo Schneider Aktiengesellschaft. No. 88,120; Aug. 27; Gaz. vol. 181; p. 1069.
Electrical apparatus and supplies. Foreign Electrical Supply Co. No. 89,642; Dec. 31; Gaz. vol. 185; p. 1374.
Electrical apparatus and supplies, Certain. Hemming Manufacturing Company. No. 85,440; Feb. 20; Gaz. vol. 175; p. 838.
Electrical apparatus and supplies, Certain. Northwestern Electric Equipment Company. No. 86,932; June 11; Gaz. vol. 179; p. 569.
Electrical apparatus and supplies, Certain. Foreign Electrical Supply Co. No. 87,195; July 2; Gaz. vol. 180; p. 316.
Electrical apparatus and supplies, Certain. C. Conradty (Inhaber Pauline & Engen Conradty) Fabrik elektrischer u. galvanischer Kohlen. No. 88,064; Aug. 27; Gaz. vol. 181; p. 1067.
Electrical apparatus and supplies, Certain. The Sumter Telephone Manufacturing Co. No. 88,600; Oct. 1; Gaz. vol. 183; p. 214.
Electrical apparatus, Certain. Champion Ignition Company. No. 85,073; Jan. 30; Gaz. vol. 174; p. 1211.
Electrical apparatus, Certain. C. Conradty (Inhaber Pauline & Eugen Conradty) Fabrik elektrischer u. galvanischer Kohlen. No. 85,228; Feb. 6; Gaz. vol. 175; p. 259.
Electrical apparatus, Certain. L. H. Nielsen Company. No. 85,988; Apr. 2; Gaz. vol. 177; p. 236.
Electrical apparatus, Certain. American Electrical Heater Co. No. 86,020; Apr. 9; Gaz. vol. 177; p. 519.
Electrical apparatus, Certain. Western Electric Company. No. 86,194; Apr. 16; Gaz. vol. 177; p. 767.
Electrical apparatus, Certain. The Hart & Hegeman Manufacturing Company. No. 88,676; Oct. 15; Gaz. vol. 183; p. 777.
Electrical appliances, Certain. Mutual Electric & Machine Company. No. 85,270; Feb. 6; Gaz. vol. 175; p. 260.
Electrical-conductor tubes. Tubular Woven Fabric Co. No. 86,485; May 7; Gaz. vol. 178; p. 317.
Electrical conductors, Insulation for. Standard Underground Cable Company. No. 86,174; Apr. 16; Gaz. vol. 177; p. 767.
Electrical connectors and spark-plugs. Smith & Hemenway. No. 87,670; July 30; Gaz. vol. 180; p. 1389.
Electrical goods, Certain. Shedd Electric Company. No. 87,667; July 30; Gaz. vol. 180; p. 1389.
Electrical junction-boxes. The Bonnell Manufacturing Co. No. 88,160; Sept. 3; Gaz. vol. 182; p. 243.
Electrical machines and supplies, Certain. Allmänna Svenska Elektriska Aktiebolaget. No. 85,935; Apr. 2; Gaz. vol. 177; p. 235.
Electrical purposes, Conduits for. The American Conduit Manufacturing Co. No. 88,227; Sept. 10; Gaz. vol. 182; p. 503.
Electrical purposes, Wire for. The American Steel & Wire Company of New Jersey. No. 88,149; Sept. 3; Gaz. vol. 182; p. 243.
Electrical regulators. General Electric Company. No. 88,625; Oct. 8; Gaz. vol. 183; p. 499.
Electrical repeating relays. Wireless Specialty Apparatus Co. No. 85,212; Jan. 30; Gaz. vol. 174; p. 1215.
Electrical supplies, Certain. Imperial Rubber Co. No. 85,967; Apr. 2; Gaz. vol. 177; p. 236.
Electrical supplies, Certain. Rose Manufacturing Co. No. 88,641; Oct. 8; Gaz. vol. 183; p. 500.
Electrical tapes, paints, and varnishes, &c. Imperial Rubber Co. No. 88,628; Oct. 8; Gaz. vol. 183; p. 499.
Electrically-heated goods, Certain. Diamond Electric Co. No. 87,610; July 30; Gaz. vol. 180; p. 1388.
Electrically-heated goods, Certain. Landers, Frary & Clark. No. 89,671; Dec. 31; Gaz. vol. 185; p. 1375.
Electromagnets. The Acme Wire Company. No. 87,963; Aug. 20; Gaz. vol. 181; p. 815.
Electroplated and refined nickel-silver articles. Berndorf Metal Works Arthur Krupp. No. 88,996; Nov. 5; Gaz. vol. 184; p. 281.
Electroplating-powder. The Voltite Company. No. 87,952; Aug. 13; Gaz. vol. 181; p. 538.
Elevators, hoists, cranes, lifts, &c. Sedgwick Machine Works. No. 89,299; Dec. 3; Gaz. vol. 185; p. 245.
Embalming fluid. Salafia Permanent Embalming Method Co. No. 86,460; May 7; Gaz. vol. 178; p. 316.
Embalming fluid. J. W. Irwin. No. 87,539; July 23; Gaz. vol. 180; p. 1133.
Embalming-fluid base. W. H. O'Neill. No. 89,136; Nov. 12; Gaz. vol. 184; p. 546.
Embroideries. Zenith Embroidery Co. No. 86,197; Apr. 16; Gaz. vol. 177; p. 767.
Embroideries. L. H. Junod & Co. No. 87,893; Aug. 13; Gaz. vol. 181; p. 536.
Embroideries. J. D. Faria. No. 88,176; Sept. 3; Gaz. vol. 182; p. 244.
Embroidery-cotton, Mercerized. Wilh. Hebebrand, G. m. b. H. No. 85,581; Feb. 27; Gaz. vol. 175; p. 1094.
Embroidery-floss, &c. The Nonotuck Silk Company. No. 85,271; Feb. 6; Gaz. vol. 175; p. 260.
Emery, emery wheels, cloth, and paper. Sirubin-Werke G. m. b. H. No. 86,834; June 4; Gaz. vol. 179; p. 283.
Emollient preparation. L. Féret. No. 85,339; Feb. 13; Gaz. vol. 175; p. 537.
Emulsion of cod-liver oil. The Smith-Stilwell Co. No. 85,190; Jan. 30; Gaz. vol. 174; p. 1215.
Enamel. The Copal Varnish Company. No. 88,067; Aug. 27; Gaz. vol. 181; p. 1067.
Enamel in various colors used as a filler, Soft. H. W. Thompson. No. 85,203; Jan. 30; Gaz. vol. 174; p. 1215.
Enamel ware, Certain named. The Enterprise Enamel Co. No. 88,619; Oct. 8; Gaz. vol. 183; p. 499.
Enamels, paints, and varnishes. Standard Varnish Works. No. 87,942; Aug. 13; Gaz. vol. 181; p. 538.
Enamels, paints, and varnishes. H. R. Meyer. No. 88,910; Oct. 29; Gaz. vol. 183; p. 1303.
Enamels, paints, varnishes, &c. Standard Varnish Works. No. 88,709; Oct. 15; Gaz. vol. 183; p. 778.
Enamels, paints, varnishes, and varnish-removers. Standard Varnish Works. No. 89,711; Dec. 31; Gaz. vol. 185; p. 1376.
Enamels, varnishes, stains, and fillers. Pratt & Lambert. No. 85,177; Jan. 30; Gaz. vol. 174; p. 1214.
Enameled steelware. Kockums Jernverks Aktiebolag. No. 85,452; Feb. 20; Gaz. vol. 175; p. 838.
Engine guides, Traction-. C. S. Whitworth. No. 89,317; Dec. 3; Gaz. vol. 185; p. 246.
Engine-starting devices. The Start-O Company. No. 86,742; May 28; Gaz. vol. 178; p. 1149.
Engine-starting devices. Ignition Starter Company. No. 87,999; Aug. 20; Gaz. vol. 181; p. 816.
Engine-starting devices, Explosive-. The Prest-O-Lite Company. No. 87,005; June 18; Gaz. vol. 179; p. 848.
Engines and clutches, Internal-combustion. Wolverine Motor Works. Nos. 86,752–3; May 28; Gaz. vol. 178; p. 1149.
Engines, Explosion-. Buffalo Gasolene Motor Co. No. 87,973; Aug. 20; Gaz. vol. 181; p. 815.
Engines, Gas-. The John Lauson Manufacturing Company. No. 89,472; Dec. 17; Gaz. vol. 185; p. 824.
Engines, Gas traction-. Gas Traction Company. No. 86,584; May 21; Gaz. vol. 178; p. 879.
Engines, Gas traction-. Minneapolis Steel & Machinery Company. No. 89,571; Dec. 24; Gaz. vol. 185; p. 1050.
Engines, Gasolene-. Termaat & Monahan Co. No. 87,822; Aug. 6; Gaz. vol. 181; p. 262.
Engines, Gasolene-. Palmer Brothers. No. 89,694; Dec. 31; Gaz. vol. 185; p. 1376.
Engines, Gasolene internal-combustion. Regal Gasoline Engine Company. No. 89,579; Dec. 24; Gaz. vol. 185; p. 1050.
Engines, harvesters, and road-working machines. The Holt Manufacturing Company. No. 85,816; Mar. 19; Gaz. vol. 176; p. 745.
Engines, Internal-combustion. The Gyro Motor Co. No. 86,217; Apr. 23; Gaz. vol. 177; p. 1039.
Engines, Internal-combustion. Columbus Pump Supply Co. No. 87,168; July 2; Gaz. vol. 180; p. 316.
Engines, Internal-combustion. "Itala" Fabbrica di Automobili. Nos. 87,456–7; July 16; Gaz. vol. 180; p. 875.
Engines, Internal-combustion. The New London Ship & Engine Company. No. 88,344; Sept. 10; Gaz. vol. 182; p. 506.
Engines, Internal-combustion. L. C. Kuhnert Jr. Co. No. 88,760; Oct. 22; Gaz. vol. 183; p. 1028.
Engines, Internal-combustion. Root & Van Dervoort Engineering Company. No. 89,145; Nov. 12; Gaz. vol. 184; p. 547.
Engines, pumps, and feed-grinders. Fairbanks, Morse & Company. No. 87,988; Aug. 20; Gaz. vol. 181; p. 815.

Alphabetical list of trade-marks—Continued.

Engines, Traction-. Pioneer Tractor Manufacturing Company. No. 85,285; Feb. 6; Gaz. vol. 175; p. 261.
Engines, Traction and stationary. M. Rumely Company. No. 89,581; Dec. 24; Gaz. vol. 185; p. 1050.
Engravings, prints, and etchings. The Incorporated Printsellers' Association. No. 87,766; Aug. 6; Gaz. vol. 181; p. 261.
Ensilage-cutters. Warsaw-Wilkinson Company. No. 88,649; Oct. 8; Gaz. vol. 183; p. 500.
Envelop-sealing machines. Mihalovitch Brothers. No. 88,911; Oct. 29; Gaz. vol. 183; p. 1303.
Envelops. E. G. Soltmann. No. 88,378; Sept. 10; Gaz. vol. 182; p. 507.
Explosives. A. Heyman. No. 84,964; Jan. 16; Gaz. vol. 174; p. 824.
Explosives, firearms, equipments, and projectiles. M. H. Dodge. No. 87,177; July 2; Gaz. vol. 180; p. 316.
Eyeglass and spectacle lenses. A. Martin, Inc. No. 86,605; May 21; Gaz. vol. 178; p. 880.
Eyeglass clips or guards. M. H. Harris. No. 85,860; Mar. 26; Gaz. vol. 176; p. 1065.
Eyeglass-mountings. Julius King Optical Co. No. 85,594; Feb. 27; Gaz. vol. 175; p. 1094.
Eyeglasses and spectacles. E. B. Meyrowitz. No. 85,267; Feb. 6; Gaz. vol. 175; p. 260.
Eyeglasses and spectacles. O. W. Hines. No. 87,450; July 16; Gaz. vol. 180; p. 874.
Eyeglasses and spectacles. H. C. Watts, Incorporated. No. 87,693; July 30; Gaz. vol. 180; p. 1390.
Eyeglasses and spectacles and parts of same. Stevens & Company. No. 85,294; Feb. 6; Gaz. vol. 175; p. 261.
Eyeglasses, spectacle and eyeglass mountings, &c. J. Rosenblatt. No. 89,702; Dec. 31; Gaz. vol. 185; p. 1376.
Eyeglasses, spectacles, lenses, &c. American Optical Company. No. 87,705; Aug. 6; Gaz. vol. 181; p. 259.
Eyeglasses, spectacles, lenses, frames, &c. American Optical Company. Nos. 87,966–7; Aug. 20; Gaz. vol. 181; p. 815.
Fabrics, Certain. Kent Manufacturing Company. No. 86,996; June 18; Gaz. vol. 179; p. 847.
Face-wax. Juliet Co. No. 89,187; Nov. 19; Gaz. vol. 184; p. 799.
Fancy goods. Bonwit, Teller & Co. No. 87,722; Aug. 6; Gaz. vol. 181; p. 259.
Fancy goods and notions, Certain. J. David. No. 86,284; Apr. 30; Gaz. vol. 177; p. 1291.
Fancy goods and notions, Certain. Dieckerhoff, Rafloer & Co. No. 86,702; May 28; Gaz. vol. 178; p. 1147.
Fancy goods and notions, Certain. Ely & Walker Dry Goods Company. No. 86,981; June 18; Gaz. vol. 179; p. 847.
Fancy goods, Certain. Empire Notion Co. No. 85,233; Feb. 6; Gaz. vol. 175; p. 259.
Fancy goods, Certain. The Spirella Company. No. 85,384; Feb. 13; Gaz. vol. 175; p. 539.
Fancy goods, Certain. Anchor Webbing Company. No. 85,544; Feb. 27; Gaz. vol. 175; p. 1093.
Fancy goods, furnishings, and notions, Certain. Watson, Porter, Giles & Company. No. 87,131; June 25; Gaz. vol. 179; p. 1104.
Fans, Electric. Sprague Electric Company. No. 88,214; Sept. 3; Gaz. vol. 182; p. 245.
Fans for personal use. N. T. Palmer. No. 84,998; Jan. 16; Gaz. vol. 174; p. 825.
Fans for personal use. C. H. Duncan. No. 86,289; Apr. 30; Gaz. vol. 177; p. 1291.
Feathers, Ostrich-. A. M. Schaefer. No. 87,373; July 9; Gaz. vol. 180; p. 599.
Feed, Horse. Edwards & Loomis Co. No. 85,093; Jan. 30; Gaz. vol. 174; p. 1212.
Feed, Horse. National Warehouse and Storage Company. No. 86,437; May 7; Gaz. vol. 178; p. 315.
Feed, Poultry. Rudy-Patrick Seed Co. No. 86,940; June 11; Gaz. vol. 179; p. 569.
Feed, Poultry. Nickel Plate Elevator Co. No. 88,514; Sept. 24; Gaz. vol. 182; p. 967.
Feed, Poultry. S. C. Gentry. No. 89,646; Dec. 31; Gaz. vol. 185; p. 1374.
Feed, Prepared stock. Keeton-Krueger Co. No. 86,140; Apr. 16; Gaz. vol. 177; p. 765.
Feed, Stock. Feeders' Supply Company. No. 84,951; Jan. 16; Gaz. vol. 174; p. 824.
Feed, Stock. Stafolife Feed & Milling Co. Nos. 86,948–50; June 11; Gaz. vol. 179; p. 569.
Feed, Stock. K. & E. Neumond. No. 88,440; Sept. 17; Gaz. vol. 182; p. 718.
Feed, Stock. Tioga Mills & Elevator Co. No. 88,975; Oct. 29; Gaz. vol. 183; p. 1305.
Feed, Stock and poultry. J. Zimmern's Co. No. 85,934; Mar. 26; Gaz. vol. 176; p. 1067.
Felt, building and roofing papers, Roofing and deadening. General Roofing Manufacturing Company. No. 87,202; July 2; Gaz. vol. 180; p. 317.
Felt, Roofing-. Warren Chemical & Manufacturing Company. No. 87,385; July 9; Gaz. vol. 180; p. 599.
Felts and papers for roofing, building, waterproofing, and insulating. Warren Chemical & Manufacturing Company. Nos. 86,191–2; Apr. 16; Gaz. vol. 177; p. 767.
Felts for lining or filling walls, &c. H. W. Johns-Manville Company. No. 84,971; Jan. 16; Gaz. vol. 174; p. 824.
Fence posts and poles, Steel. C. L. Michod. No. 85,914; Mar. 26; Gaz. vol. 176; p. 1067.
Fertilizer. Farmers' Cotton Oil & Fertilizer Co. No. 84,950; Jan. 16; Gaz. vol. 174; p. 823.
Fertilizer. Farmers' Cotton Oil & Fertilizer Co. No. 85,337; Feb. 13; Gaz. vol. 175; p. 537.
Fertilizer. J. A. Engel. No. 85,735; Mar. 12; Gaz. vol. 176; p. 521.
Fertilizer. Cherokee Fertilizer Co. No. 87,165; July 2; Gaz. vol. 180; p. 316.
Fertilizer. Morris Fertilizer Co. No. 88,776; Oct. 22; Gaz. vol. 183; p. 1028.
Fertilizer. Pacific Bone Coal & Fertilizer Co. No. 89,494; Dec. 17; Gaz. vol. 185; p. 825.
Fertilizer-distributers and harrows. Atlanta Agricultural Works. No. 85,896; Mar. 26; Gaz. vol. 176; p. 1066.
Fertilizer, Mixed. Morris & Company. Nos. 88,687–96; Oct. 15; Gaz. vol. 183; p. 778.
Fertilizers. American Agricultural Chemical Co. Nos. 86,116–17; Apr. 16; Gaz. vol. 177; p. 765.
Fertilizers. Bowker Fertilizer Company. No. 86,496; May 7; Gaz. vol. 178; p. 317.
Fertilizers. American Agricultural Chemical Company. No. 87,140; July 2; Gaz. vol. 180; p. 315.
Fertilizers. Anglo-Continental Guano Works. No. 87,143; July 2; Gaz. vol. 180; p. 315.
Fertilizers. American Agricultural Chemical Company. No. 87,513; July 23; Gaz. vol. 180; p. 1133.
Fertilizers. Plants Plantoids Limited. No. 87,562; July 23; Gaz. vol. 180; p. 1134.
Fertilizers. Plants Plantoids Limited. No. 87,655; July 30; Gaz. vol. 180; p. 1389.
Fertilizers. Elmore Fertilizer Company. No. 88,071; Aug. 27; Gaz. vol. 181; p. 1068.
Fertilizers. American Agricultural Chemical Company. No. 88,224; Sept. 10; Gaz. vol. 182; p. 503.
Fertilizers. Patapsco Guano Co. Nos. 88,351–4; Sept. 10; Gaz. vol. 182; p. 506.
Fertilizers. American Agricultural Chemical Company. No. 88,657; Oct. 15; Gaz. vol. 183; p. 777.
Fertilizers. Bowker Chemical Company. No. 88,662; Oct. 15; Gaz. vol. 183; p. 777.
Fertilizers. Sanderson Fertilizer & Chemical Co. No. 88,705; Oct. 15; Gaz. vol. 183; p. 778.
Fertilizers. B. H. Harvin. No. 89,182; Nov. 19; Gaz. vol. 184; p. 799.
Fertilizers. Lister Agricultural Chemical Works. No. 89,477; Dec. 17; Gaz. vol. 185; p. 824.
Fertilizers, Bone-meal. Morris & Company. No. 87,238; July 2; Gaz. vol. 180; p. 318.
Fibers, Plant. G. D. Adams. No. 89,321; Dec. 10; Gaz. vol. 185; p. 519.
Field-glasses. C. Zeiss. Nos. 85,309–10; Feb. 6; Gaz. vol. 175; p. 262.
Figs. Habicht, Braun & Co. No. 84,907; Jan. 9; Gaz. vol. 174; p. 582.
Files for papers and books. J. H. Atwater Company. No. 84,927; Jan. 16; Gaz. vol. 174; p. 823.
Files, Paper-. Yawman & Erbe Manufacturing Co. No. 84,775; Jan. 2; Gaz. vol. 174; p. 285.
Filing-cabinets. The General Fireproofing Co. No. 86,527; May 14; Gaz. vol. 178; p. 587.
Filing-cabinets, Office. The Simplex Filing Device Company. No. 85,506; Feb. 20; Gaz. vol. 175; p. 840.
Filler for certain uses on hard and soft wood, Liquid. Standard Varnish Works. No. 89,514; Dec. 17; Gaz. vol. 185; p. 825.
Films, Kinetoscopic. Lubin Manufacturing Company. No. 88,629; Oct. 8; Gaz. vol. 183; p. 499.
Filtering material. Brass Goods M'f'g Co. No. 89,618; Dec. 31; Gaz. vol. 185; p. 1373.
Filters. C. Schleicher & Schüll. No. 89,068; Nov. 5; Gaz. vol. 184; p. 283.
Filters and filtering-paper. C. Schleicher & Schüll. No. 89,067; Nov. 5; Gaz. vol. 184; p. 283.
Filters and refrigerators, Certain. Traverse City Refrigerator Co. No. 87,287; July 2; Gaz. vol. 180; p. 319.
Filters, Water-. Brass Goods M'f'g. Co. No. 84,722; Jan. 2; Gaz. vol. 174; p. 283.
Fire-extinguishers. Bush-Scott Company. No. 87,161; July 2; Gaz. vol. 180; p. 315.
Fire-extinguishers. The Electrene Company. No. 87,985; Aug. 20; Gaz. vol. 181; p. 815.
Fire-extinguishers. Maschinen-Cartonnagen- & Pappenfabrik Wachtersbach, Fried. Christian. No. 89,046; Nov. 5; Gaz. vol. 184; p. 282.
Fire-extinguishers, Chemical. The Western Inspection Company. No. 88,039; Aug. 20; Gaz. vol. 181; p. 817.
Fire-extinguishing compounds, Syringes for use with. Pyrene Manufacturing Co. No. 85,918; Mar. 26; Gaz. vol. 176; p. 1067.
Fire-wagons and melting-kettles. Iroquois Iron Works. No. 85,818; Mar. 19; Gaz. vol. 176; p. 746.
Fireproof construction, Waterproofing compositions to be used in. National Fire Proofing Company. No. 85,369; Feb. 13; Gaz. vol. 175; p. 538.
Fish. Sylvanus Smith & Co. No. 85,690; Mar. 5; Gaz. vol. 176; p. 270.
Fish, Certain. B. M. Shipman Co. No. 87,936; Aug. 13; Gaz. vol. 181; p. 537.

Alphabetical list of trade-marks—Continued.

Fish, Frozen. Sandwich Freezer Co. No. 86,623; May 21; Gaz. vol. 178; p. 880.
Fishing-fly book. F. W. Klinger & Langbein Company. No. 85,359; Feb. 13; Gaz. vol. 175; p. 538.
Fishing goods, Certain named. Morris Carswell & Coy. No. 87,906; Aug. 13; Gaz. vol. 181; p. 537.
Fishing-nets. Massachusetts Net Company. No. 86,665; May 21; Gaz. vol. 178; p. 882.
Fishing-rods, swivels, and sinkers. H. A. Whittemore. No. 85,396; Feb. 13; Gaz. vol. 175; p. 539.
Fishing-tackle. E. A. Pflueger Company. No. 87,478; July 16; Gaz. vol. 180; p. 875.
Flannel piece goods. Denzer & Nathan. No. 85,563; Feb. 27; Gaz. vol. 175; p. 1093.
Flannel piece goods. Wick Narrow Fabric Company. No. 87,025; June 18; Gaz. vol. 179; p. 848.
Flannel piece goods. C. Whitman & Co. No. 88,143; Aug. 27; Gaz. vol. 181; p. 1070.
Flannels, Cotton. Tootle, Wheeler & Motter Mer. Co. No. 84,887; Jan. 9; Gaz. vol. 174; p. 581.
Flannels in the piece, Napped. Pemberton Company. No. 88,784; Oct. 22; Gaz. vol. 183; p. 1028.
Flat-irons, Electric. Chicago Flexible Shaft Company. No. 89,623; Dec. 31; Gaz. vol. 185; p. 1374.
Flavor, Imitation maple. Closset & Devers. No. 86,129; Apr. 16; Gaz. vol. 177; p. 765.
Flavoring, Beverage-. E. C. Putnam. No. 88,422; Sept. 17; Gaz. vol. 182; p. 717.
Flavoring compound. The Vorl Company. No. 89,168; Nov. 12; Gaz. vol. 184; p. 547.
Flavoring extracts. W. H. Malette. No. 88,100; Aug. 27; Gaz. vol. 181; p. 1068.
Flavoring extracts. P. J. Bertucci. No. 89,332; Dec. 10; Gaz. vol. 185; p. 519.
Flavoring extracts and imitation flavors. Bristol Drug & Gum Corporation. No. 87,846; Aug. 13; Gaz. vol. 181; p. 535.
Flavoring extracts and spices. Cumberland Mfg. Co. No. 84,817; Jan. 9; Gaz. vol. 174; p. 579.
Flavoring extracts, ice-cream preparation, &c. O. E. Andrews & Company. No. 84,925; Jan. 16; Gaz. vol. 174; p. 823.
Flavoring extracts, imitation fruit flavors, and spices. Interstate Commerce Co. No. 87,891; Aug. 13; Gaz. vol. 181; p. 536.
Flavoring-syrups used in ginseng beverages. Gingseng Syrup Company. No. 88,406; Sept. 17; Gaz. vol. 182; p. 717.
Flies, Preparation and devices for killing. H. Somers, No. 86,472; May 7; Gaz. vol. 178; p. 316.
Fly-killers. United States Wire Mat Company. No. 85,049; Jan. 23; Gaz. vol. 174; p. 1023.
Fly-paper, Poisonous. A. W. Holway. No. 85,817; Mar. 19; Gaz. vol. 176; p. 746.
Fly-paper, Sticky. C. H. Oehmig-Wiedlich. No. 86,083; Apr. 9; Gaz. vol. 177; p. 520.
Fly-traps. C. E. Bowen. No. 85,320; Feb. 13; Gaz. vol. 175; p. 537.
Flying-machines and parts thereof. Société des Moteurs Gnome. No. 85,381; Feb. 13; Gaz. vol. 175; p. 539.
Floor-coverings. The Corticine Floor Covering Company. No. 86,130; Apr. 16; Gaz. vol. 177; p. 765.
Floor-dressing. The Morsul Company. No. 89,049; Nov. 5; Gaz. vol. 184; p. 282.
Flooring and flooring materials, Plastic. H. R. Graham. No. 85,963; Apr. 2; Gaz. vol. 177; p. 236.
Flooring, edge-strips for floors, &c. Nashville Hardwood Flooring Company. No. 85,764; Mar. 12; Gaz. vol. 176; p. 522.
Flooring, Jointless. Durato Asbestos Flooring Co., Ltd. No. 89,178; Nov. 19; Gaz. vol. 184; p. 799.
Flooring, surfacing, tenoning, &c., machines. J. A. Fay & Egan Company. No. 85,236; Feb. 6; Gaz. vol. 175; p. 259.
Flooring, Wooden. Bliss Cook Oak Company. No. 85,319; Feb. 13; Gaz. vol. 175; p. 537.
Floss, Mercerized cotton. Richardson Silk Co. No. 86,732; May 28; Gaz. vol. 178; p. 1148.
Flour. Michigan Milling Co. No. 85,462; Feb. 20; Gaz. vol. 175; p. 838.
Flour. The Cleveland Milling Company. No. 85,731; Mar. 12; Gaz. vol. 176; p. 521.
Flour. Michigan Milling Co. No. 85,762; Mar. 12; Gaz. vol. 176; p. 522.
Flour. Seaboard Flour Company. No. 86,337; Apr. 30; Gaz. vol. 177; p. 1293.
Flour. Thornton & Chester Milling Co. Nos. 86,478–81; May 7; Gaz. vol. 178; p. 316.
Flour. Cleveland Milling Co. No. 87,603; July 30; Gaz. vol. 180; p. 1387.
Flour and cereal breakfast food, Whole-wheat. Hunyadi Laszlo Company. No. 86,914; June 11; Gaz. vol. 179; p. 568.
Flour and cornmeal, Wheat-. The Burrton Milling Company. No. 85,944; Apr. 2; Gaz. vol. 177; p. 235.
Flour and flavoring extracts, Self-rising pancake and buckwheat. E. F. Lomelino. No. 85,824; Mar. 19; Gaz. vol. 176; p. 746.
Flour and stock food, Wheat-. Shannon & Mott Company. No. 85,185; Jan. 30; Gaz. vol. 174; p. 1215.
Flour, Certain. B. Martinez. No. 85,460; Feb. 20; Gaz. vol. 175; p. 838.
Flour, Compound baking-. G. P. P. Nicolaou. No. 85,160; Jan. 30; Gaz. vol. 174; p. 1214.
Flour, cornmeal, and Graham flour, Wheat-. Michigan Milling Company. No. 85,672; Mar. 5; Gaz. vol. 176; p. 270.
Flour, Prepared cereal. The Northwestern Elevator and Mill Co. No. 86,933; June 11; Gaz. vol. 179; p. 569.
Flour, Self-rising. Union Roller Milling Co. No. 86,641; May 21; Gaz. vol. 178; p. 881.
Flour, Self-rising. Blish Milling Company. No. 87,596; July 30; Gaz. vol. 180; p. 1387.
Flour, Self-rising wheat-. Millstadt Milling Co. No. 87,354; July 9; Gaz. vol. 180; p. 598.
Flour, Wheat-. Kemper Mill & Elevator Company. No. 84,835; Jan. 9; Gaz. vol. 174; p. 580.
Flour, Wheat-. Lexington Flouring Mills. No. 84,838; Jan. 9; Gaz. vol. 174; p. 580.
Flour, Wheat-. Montana Flour Mills Co. Nos. 84,847–8; Jan. 9; Gaz. vol. 174; p. 580.
Flour, Wheat-. Galban & Co. No. 84,953; Jan. 16; Gaz. vol. 174; p. 824.
Flour, Wheat-. King Milling Co. No. 84,974; Jan. 16; Gaz. vol. 174; p. 824.
Flour, Wheat-. Moseley & Motley Milling Co. No. 84,988; Jan. 16; Gaz. vol. 174; p. 825.
Flour, Wheat-. Shannon & Mott Company. No. 85,013; Jan. 16; Gaz. vol. 174; p. 825.
Flour, Wheat-. The Eaton Milling & Elevator Co. No. 85,092; Jan. 30; Gaz. vol. 174; p. 1212.
Flour, Wheat-. Kehlor Flour Mills Company. No. 85,136; Jan. 30; Gaz. vol. 174; p. 1213.
Flour, Wheat-. Michigan Milling Company. No. 85,155; Jan. 30; Gaz. vol. 174; p. 1214.
Flour, Wheat-. Moseley & Motley Milling Co. No. 85,156; Jan. 30; Gaz. vol. 174; p. 1214.
Flour, Wheat-. Gulfport Grocery Co. No. 85,245; Feb. 6; Gaz. vol. 175; p. 260.
Flour, Wheat-. The Big Bend Milling Co. No. 85,643; Mar. 5; Gaz. vol. 176; p. 269.
Flour, Wheat-. J. G. Davis. No. 85,650; Mar. 5; Gaz. vol. 176; p. 269.
Flour, Wheat-. McDonald Milling Company. No. 85,669; Mar. 5; Gaz. vol. 176; p. 270.
Flour, Wheat-. The Twin Falls Milling & Elevator Co. No. 85,695; Mar. 5; Gaz. vol. 176; p. 270.
Flour, Wheat-. Western Flour Mill Company. No. 85,699; Mar. 5; Gaz. vol. 176; p. 270.
Flour, Wheat-. W. C. Roberson. No. 85,767; Mar. 12; Gaz. vol. 176; p. 522.
Flour, Wheat-. The Twin Falls Milling & Elevator Co. No. 85,778; Mar. 12; Gaz. vol. 176; p. 522.
Flour, Wheat-. Nashville Roller Mills. No. 85,827; Mar. 19; Gaz. vol. 176; p. 746.
Flour, Wheat-. A. J. Vernier. No. 85,840; Mar. 19; Gaz. vol. 176; p. 746.
Flour, Wheat-. Western Flour Mill Company. No. 85,930; Mar. 26; Gaz. vol. 176; p. 1067.
Flour, Wheat-. M. Forchheimer & Co. No. 85,958; Apr. 2; Gaz. vol. 177; p. 235.
Flour, Wheat-. Carlyle Milling Company. No. 86,034; Apr. 9; Gaz. vol. 177; p. 519.
Flour, Wheat-. Michigan Milling Company. No. 86,076; Apr. 9; Gaz. vol. 177; p. 520.
Flour, Wheat-. Seguin Milling & Power Co. No. 86,338; Apr. 30; Gaz. vol. 177; p. 1293.
Flour, Wheat-. Mathers Brothers. No. 86,424; May 7; Gaz. vol. 178; p. 315.
Flour, Wheat-. Serv-Us Pure Food Co. No. 86,625; May 21; Gaz. vol. 178; p. 880.
Flour, Wheat-. Thornton & Chester Milling Co. No. 86,638; May 21; Gaz. vol. 178; p. 881.
Flour, Wheat-. Ledeboer & Van Der Held. No. 86,664; May 21; Gaz. vol. 178; p. 881.
Flour, Wheat-. J. H. Brower. No. 86,677; May 21; Gaz. vol. 178; p. 882
Flour, Wheat-. Mammoth Spring Milling Company. No. 86,760; May 28; Gaz. vol. 178; p. 1149.
Flour, Wheat-. Atlantic Maritime Company. No. 86,869; June 11; Gaz. vol. 179; p. 567.
Flour, Wheat-. Lexington Mill & Elevator Co. No. 86,916; June 11; Gaz. vol. 179; p. 568.
Flour, Wheat-. Duluth-Superior Milling Company. No. 87,053; June 25; Gaz. vol. 179; p. 1102.
Flour, Wheat-. Mayflower Mills. No. 87,088; June 25; Gaz. vol. 179; p. 1102.
Flour, Wheat-. The Smith Milling and Grain Company. No. 87,116; June 25; Gaz. vol. 179; p. 1103.
Flour, Wheat-. Harrisonburg Milling Company. No. 87,207; July 2; Gaz. vol. 180; p. 317.
Flour, Wheat-. Southwestern Milling Company. No. 87,271; July 2; Gaz. vol. 180; p. 319.
Flour, Wheat-. Hardesty Milling Co. No. 87,445; July 16; Gaz. vol. 180; p. 874.
Flour, Wheat-. J. N. Adam & Co. No. 87,583; July 30; Gaz. vol. 180; p. 1387.
Flour, Wheat-. Federal Milling Company. No. 87,615; July 30; Gaz. vol. 180; p. 1388.
Flour, Wheat-. Tomkinson, Kenyon & Tomkinson Co. No. 87,684; July 30; Gaz. vol. 180; p. 1390.

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Flour, Wheat-. Treasure State Milling Company. No. 87,687; July 30; Gaz. vol. 180; p. 1390.
Flour, Wheat-. Star Milling Co. No. 87,943; Aug. 13; Gaz. vol. 181; p. 538.
Flour, Wheat-. The Ansted & Burk Co. No. 88,043; Aug. 27; Gaz. vol. 181; p. 1067.
Flour, Wheat-. Koenigsmark Mill Co. No. 88,093; Aug. 27; Gaz. vol. 181; p. 1068.
Flour, Wheat-. F. C. Williams. No. 88,144; Aug. 27; Gaz. vol. 181; p. 1070.
Flour, Wheat-. Listman Mill Company. No. 88,187; Sept. 3; Gaz. vol. 182; p. 244.
Flour, Wheat-. C. L. Plumb. Nos. 88,199–200; Sept. 3; Gaz. vol. 182; p. 244.
Flour, Wheat-. Duluth-Superior Milling Company. No. 88,255; Sept. 10; Gaz. vol. 182; p. 504.
Flour, Wheat-. Fisher Flouring Mills Company. Nos. 88,258–61; Sept. 10; Gaz. vol. 182; p. 504.
Flour, Wheat-. Hixon Milling Company. No. 88,291; Sept. 10; Gaz. vol. 182; p. 505.
Flour, Wheat-. Kruger, Darsie & Co. No. 88,310; Sept. 10; Gaz. vol. 182; p. 505.
Flour, Wheat-. The Portland Flouring Mills Company. Nos. 88,357–9; Sept. 10; Gaz. vol. 182; p. 506.
Flour, Wheat-. The Southwestern Milling Company. No. 88,379; Sept. 10; Gaz. vol. 182; p. 507.
Flour, Wheat-. The Blish Milling Company. No. 88,396; Sept. 17; Gaz. vol. 182; p. 717.
Flour, Wheat-. Centennial Mill Co. No. 88,397; Sept. 17; Gaz. vol. 182; p. 717.
Flour, Wheat-. Fisher Flouring Mills Company. No. 88,404; Sept. 17; Gaz. vol. 182; p. 717.
Flour, Wheat-. Pillsbury Flour Mills Company. No. 88,421; Sept. 17; Gaz. vol. 182; p. 717.
Flour, Wheat-. Trenton Milling Company. No. 88,430; Sept. 17; Gaz. vol. 182; p. 718.
Flour, Wheat-. Yardley Mills Company. No. 88,439; Sept. 17; Gaz. vol. 182; p. 718.
Flour, Wheat-. The Portland Flouring Mills Company. No. 88,520; Sept. 24; Gaz. vol. 182; p. 967.
Flour, Wheat-. Duluth-Superior Milling Company. No. 88,858; Oct. 29; Gaz. vol. 183; p. 1302.
Flour, Wheat-. Fisher Flouring Mills Company. No. 88,863; Oct. 29; Gaz. vol. 183; p. 1302.
Flour, Wheat-. The Foltz Grocery & Baking Company. No. 88,865; Oct. 29; Gaz. vol. 183; p. 1302.
Flour, Wheat-. The Harter Milling Co. No. 88,874; Oct. 29; Gaz. vol. 183; p. 1302.
Flour, Wheat-. Medina Milling & Elevator Co. No. 88,906; Oct. 29; Gaz. vol. 183; p. 1303.
Flour, Wheat-. The Portland Flouring Mills Company. No. 88,948; Oct. 29; Gaz. vol. 183; p. 1304.
Flour, Wheat-. Duluth-Superior Milling Company. Nos. 89,016–17; Nov. 5; Gaz. vol. 184; p. 281.
Flour, Wheat-. Holt & Company. No. 89,031; Nov. 5; Gaz. vol. 184; p. 282.
Flour, Wheat-. J. Loudenslager. No. 89,044; Nov. 5; Gaz. vol. 184; p. 282.
Flour, Wheat-. The Geo. Tileston Milling Co. No. 89,304; Dec. 3; Gaz. vol. 185; p. 245.
Flour, Wheat-. Victor Milling Co. No. 89,309; Dec. 3; Gaz. vol. 185; p. 246.
Flour, Wheat-. Fisher Flouring Mills Company. No. 89,350; Dec. 10; Gaz. vol. 185; p. 520.
Flour, Wheat-. H. Glade & Co. No. 89,457; Dec. 17; Gaz. vol. 185; p. 824.
Flour, Wheat-. Empire State Flour Mills. No. 89,544; Dec. 24; Gaz. vol. 185; p. 1049.
Flour, Wheat-. The Southwestern Milling Company. No. 89,587; Dec. 24; Gaz. vol. 185; p. 1051.
Flour, Wheat-. United Flour Mills Company. No. 89,588; Dec. 24; Gaz. vol. 185; p. 1051.
Flour, Wheat-. Empire State Flour Mills. Nos. 89,636–7; Dec. 31; Gaz. vol. 185; p. 1374.
Flour, Whole-wheat. P. Schmitt. No. 89,153; Nov. 12; Gaz. vol. 184; p. 547.
Flours, Certain. F. B. Chamberlain Co. No. 85,072; Jan. 30; Gaz. vol. 174; p. 1211.
Fluor-spar, Ground. Fairview Fluor Spar & Lead Company. No. 88,073; Aug. 27; Gaz. vol. 181; p. 1068.
Foils of aluminium or its alloys. Aluminium G. m. b. H. No. 88,822; Oct. 29; Gaz. vol. 183; p. 1301.
Food, Cereal breakfast. J. Adair. No. 87,582; July 30; Gaz. vol. 180; p. 1387.
Food, Cereal breakfast. Green & De Laittre Company. No. 89,459; Dec. 17; Gaz. vol. 185; p. 824.
Food, Cereal breakfast. Postum Cereal Co. No. 89,500; Dec. 17; Gaz. vol. 185; p. 825.
Food, Certain named. J. H. Merrill Co. Nos. 88,908–9; Oct. 29; Gaz. vol. 183; p. 1303.
Food-coloring. Chase & Neely. No. 85,074; Jan. 30; Gaz. vol. 174; p. 1211.
Food compositions. Prepared balanced. A. N. Warner. No. 87,953; Aug. 13; Gaz. vol. 181; p. 538.
Food compound composed of various cereals. New England Cereal Co. No. 86,610; May 21; Gaz. vol. 178; p. 880.
Food for infants and invalids. A. M. Alberty. No. 85,637; Mar. 5; Gaz. vol. 176; p. 269.
Food for infants and invalids, Prepared. G. Delangrenier. No. 88,854; Oct. 29; Gaz. vol. 183; p. 1302.
Food, Horse. F. C. McAfee. No. 84,842; Jan. 9; Gaz. vol. 174; p. 580.
Food, Laxative breakfast. Sterling Health Food Company. No. 88,429; Sept. 17; Gaz. vol. 182; p. 718.
Food, Laxative cereal. J. D. Bourdeau Co. No. 84,812; Jan. 9; Gaz. vol. 174; p. 579.
Food, Poultry. J. G. Peppard Seed Co. No. 88,355; Sept. 10; Gaz. vol. 182; p. 506.
Food, Prepared poultry. F. C. Williams. No. 86,971; June 11; Gaz. vol. 179; p. 570.
Food-preservative. B. Heller & Co. No. 88,284; Sept. 10; Gaz. vol. 182; p. 504.
Food product made of curdled milk. O. Demisch. No. 89,098; Nov. 12; Gaz. vol. 184; p. 545.
Food products. Horlick's Malted Milk Company. No. 89,466; Dec. 17; Gaz. vol. 185; p. 824.
Food products, Olive-oil. M. Niven. No. 84,993; Jan. 16; Gaz. vol. 174; p. 825.
Food, Stock. Mutual Cotton Oil Co. No. 85,158; Jan. 30; Gaz. vol. 174; p. 1214.
Food, Stock. Excello Feed Milling Company. No. 86,394; May 7; Gaz. vol. 178; p. 314.
Food, Stock. The Great Western Sugar Company. No. 87,879; Aug. 13; Gaz. vol. 181; p. 536.
Food, Stock. W. C. Nothern. No. 88,106; Aug. 27; Gaz. vol. 181; p. 1069.
Food, Tonic. Southall Bros. & Barclay. No. 86,249; Apr. 23; Gaz. vol. 177; p. 1040.
Food-wafers for invalids. Roman Uhl Nachfolger Josef M. Breunig. No. 89,144; Nov. 12; Gaz. vol. 184; p. 547.
Foods and stock feed, Certain. American Hominy Company. No. 84,797; Jan. 9; Gaz. vol. 174; p. 579.
Foods, Cereal breakfast. G. K. Cummings. No. 86,887; June 11; Gaz. vol. 179; p. 567.
Foods, Cereal breakfast. G. K. Cummings. No. 87,172; July 2; Gaz. vol. 180; p. 316.
Foods, Certain. The American Prepared Food Co. No. 84,800; Jan. 9; Gaz. vol. 174; p. 579.
Foods, Certain. Chas. W. Bauermeister Company. No. 84,810; Jan. 9; Gaz. vol. 174; p. 579.
Foods, Certain. The Franco-American Food Company. No. 84,825; Jan. 9; Gaz. vol. 174; p. 579.
Foods, Certain. McNeil & Higgins Company. No. 84,843; Jan. 9; Gaz. vol. 174; p. 580.
Foods, Certain. Scott & Gilbert Co. No. 84,879; Jan. 9; Gaz. vol. 174; p. 581.
Foods, Certain. T. M. Sinclair & Co. No. 84,881; Jan. 9; Gaz. vol. 174; p. 581.
Foods, Certain. Western Grocer Company. No. 84,892; Jan. 9; Gaz. vol. 174; p. 581.
Foods, Certain. S. Clague. No. 85,076; Jan. 30; Gaz. vol. 174; p. 1211.
Foods, Certain. Conservenfabrik Lenzburg vorm. Henckell & Roth. No. 85,080; Jan. 30; Gaz. vol. 174; p. 1212.
Foods, Certain. The Four Co. No. 85,101; Jan. 30; Gaz. vol. 174; p. 1212.
Foods, Certain. B. Martinez. No. 85,153; Jan. 30; Gaz. vol. 174; p. 1214.
Foods, Certain. J. W. Rider. No. 85,179; Jan. 30; Gaz. vol. 174; p. 1214.
Foods, Certain. The Cloverdale Company. No. 85,414; Feb. 20; Gaz. vol. 175; p. 837.
Foods, Certain. Crocker Grocery Company. No. 85,417; Feb. 20; Gaz. vol. 175; p. 837.
Foods, Certain. Monkhouse and Glasscock. No. 85,466; Feb. 20; Gaz. vol. 175; p. 839.
Foods, Certain. Row Preserving Company. No. 85,497; Feb. 20; Gaz. vol. 175; p. 839.
Foods, Certain. McCord-Brady Company. No. 85,668; Mar. 5; Gaz. vol. 176; p. 270.
Foods, Certain. F. Widlar & Co. No. 85,931; Mar. 26; Gaz. vol. 176; p. 1067.
Foods, Certain. Kimball Bros. Co. No. 85,971; Apr. 2; Gaz. vol. 177; p. 236.
Foods, Certain. The H. D. Lee Mercantile Co. No. 86,067; Apr. 9; Gaz. vol. 177; p. 520.
Foods, Certain. The J. S. Brown & Bro. Mer. Co. Nos. 86,273–4; Apr. 30; Gaz. vol. 177; p. 1291.
Foods, Certain. Hargreaves Merc. Co. No. 86,404; May 7; Gaz. vol. 178; p. 314.
Foods, Certain. Rosenberg Bros. & Co. No. 86,619; May 21; Gaz. vol. 178; p. 880.
Foods, Certain. F. W. Hertel. No. 86,662; May 21; Gaz. vol. 178; p. 881.
Foods, Certain. Rosenberg Bros. & Co. No. 86,670; May 21; Gaz. vol. 178; p. 882.
Foods, Certain. Saville, Somes & Co. No. 86,671; May 21; Gaz. vol. 178; p. 882.
Foods, Certain. Plunkett-Jarrell Grocer Co. No. 86,761; May 28; Gaz. vol. 178; p. 1149.
Foods, Certain. A. Goodman & Son. No. 86,901; June 11; Gaz. vol. 179; p. 568.
Foods, Certain. Lehmann-Higginson Grocer Co. No. 86,915; June 11; Gaz. vol. 179; p. 568.
Foods, Certain. J. A. Stoughton. No. 86,960; June 11; Gaz. vol. 179; p. 570.
Foods, Certain. Western Grocer Company. No. 86,970; June 11; Gaz. vol. 179; p. 570.
Foods, Certain. Bluff City Grocer Co. No. 87,150; July 2; Gaz. vol. 180; p. 315.

Alphabetical list of trade-marks—Continued.

Foods, Certain. Groneweg & Schoentgen Co. No. 87,625; July 30; Gaz. vol. 180; p. 1388.
Foods, Certain. Williamson-Halsell-Frasier Co. No. 87,698; July 30; Gaz. vol. 180; p. 1390.
Foods, Certain. Western Grocer Company. No. 87,955; Aug. 13; Gaz. vol. 181; p. 538.
Foods, Certain. John Blaul's Sons Co. No. 88,998; Nov. 5; Gaz. vol. 184; p. 281.
Foods, Certain. E. van W. Hook & Co. No. 89,032; Nov. 5; Gaz. vol. 184; p. 282.
Foods, Certain. G. Lewis. No. 89,038; Nov. 5; Gaz. vol. 184; p. 282.
Foods, Certain. Rust-Parker-Martin Company. No. 89,065; Nov. 5; Gaz. vol. 184; p. 283.
Foods, Certain. Beech-Nut Packing Company. No. 89,613; Dec. 31; Gaz. vol. 185; p. 1373.
Foods, Certain grain. The Pioneer Cereal Company. No. 84,874; Jan. 9; Gaz. vol. 174; p. 581.
Foods, Certain named. Niese Grocer Company. No. 88,415; Sept. 17; Gaz. vol. 182; p. 717.
Foods, Certain named. Roundy, Peckham & Dexter Co. No. 88,424; Sept. 17; Gaz. vol. 182; p. 717.
Foods, Certain named. C. W. Antrim & Sons. No. 88,827; Oct. 29; Gaz. vol. 183; p. 1301.
Foods, Certain named. Berdan & Company. No. 88,830; Oct. 29; Gaz. vol. 183; p. 1301.
Foods, Certain named. T. Roberts & Co. No. 88,954; Oct. 29; Gaz. vol. 183; p. 1304.
Foods, Certain named. Morris and Company. No. 89,284; Dec. 3; Gaz. vol. 185; p. 245.
Foods, Certain named. O. V. Tracy & Co. No. 89,400; Dec. 10; Gaz. vol. 185; p. 521.
Foods, Certain named. Northern Pickle Co. No. 89,492; Dec. 17; Gaz. vol. 185; p. 825.
Foods, Certain named. The A. Sander Packing Company. No. 89,506; Dec. 17; Gaz. vol. 185; p. 825.
Foods, Certain named. Zarnits Bros. Grocery Co. No. 89,523; Dec. 17; Gaz. vol. 185; p. 825.
Foods for birds and poultry. W. Mack. No. 87,227; July 2; Gaz. vol. 180; p. 317.
Footwear and friction-gloves, Certain. Hadley & Reeves Mfg. Co. No. 89,556; Dec. 24; Gaz. vol. 185; p. 1050.
Force-cups, plumbers' friend, and toilet-plunger. C. A. Daniel. No. 86,700; May 28; Gaz. vol. 178; p. 1147.
Forgings, bar iron and steel, Structural. American Iron and Steel Manufacturing Company. No. 86,682; May 28; Gaz. vol. 178; p. 1147.
Forgings, bar iron and steel, Structural. American Iron and Steel Manufacturing Company. Nos. 86,865–6; June 11; Gaz. vol. 179; p. 567.
Forgings, bar iron and steel, Structural. American Iron and Steel Manufacturing Company. No. 89,214; Dec. 3; Gaz. vol. 185; p. 243.
Foundry apparatus. H. D. Harvey. No. 87,886; Aug. 13; Gaz. vol. 181; p. 536.
Friction-tape. The M. W. Dunton Company. No. 86,980; June 18; Gaz. vol. 179; p. 847.
Friction-tape. M. W. Dunton Company. No. 87,436; July 16; Gaz. vol. 180; p. 874.
Frozen desserts, Preparations for making. W. Rippey. No. 87,927; Aug. 13; Gaz. vol. 181; p. 537.
Fruit extracts. A. Boake Roberts & Co. No. 89,437; Dec. 17; Gaz. vol. 185; p. 823.
Fruit-jars, Glass. Warren Fruit Jar Co. No. 88,716; Oct. 15; Gaz. vol. 183; p. 778.
Fruit-juices, &c. Fruit Juice Co. No. 87,873; Aug. 13; Gaz. vol. 181; p. 536.
Fruit-juices, &c. The Fruit Juice Company. No. 89,245; Dec. 3; Gaz. vol. 185; p. 244.
Fruits and canned vegetables, Dried. Klauber Wangenheim Co. No. 88,410; Sept. 17; Gaz. vol. 182; p. 717.
Fruits and cheese, Dried. W. H. Underwood. No. 85,020; Jan. 16; Gaz. vol. 174; p. 825.
Fruits and fruit-juices for flavoring purposes, Concentrated. The Angelus Company. No. 88,445; Sept. 24; Gaz. vol. 182; p. 965.
Fruits and pickles, Preserved. Cruikshank Brothers Company. No. 87,171; July 2; Gaz. vol. 180; p. 316.
Fruits and pineapples, Fresh citrus. H. D. Castle. No. 89,001; Nov. 5; Gaz. vol. 184; p. 281.
Fruits and raisins, Dried. Fresno Home Packing Company. No. 86,397; May 7; Gaz. vol. 178; p. 314.
Fruits and raisins, Dried. Giffen-Hobbs Co. No. 87,621; July 30; Gaz. vol. 180; p. 1388.
Fruits and raisins, Dried. Giffen-Hobbs Co. No. 88,273; Sept. 10; Gaz. vol. 182; p. 504.
Fruits, Citrus. Teague-McKevett Company. No. 89,397; Dec. 10; Gaz. vol. 185; p. 521.
Fruits, currants, sultana raisins, &c., Dried. Habicht, Braun & Co. No. 85,436; Feb. 20; Gaz. vol. 175; p. 838.
Fruits, Dried. Napa Fruit Co. Nos. 87,239–40; July 2; Gaz. vol. 180; p. 318.
Fruits, Evaporated. Tillson & Co. No. 87,945; Aug. 13; Gaz. vol. 181; p. 538.
Fruits, Evaporated. Tillson & Co. No. 88,136; Aug. 27; Gaz. vol. 181; p. 1069.
Fruits, Fresh and dried. P. A. Pincoffs. No. 89,499; Dec. 17; Gaz. vol. 185; p. 825.
Fruits, Fresh and green. The Grand Junction Fruit Growers' Association. No. 88,869; Oct. 29; Gaz. vol. 183; p. 1302.
Fruits, Fresh and green. The Grand Junction Fruit Growers' Association. No. 89,024; Nov. 5; Gaz. vol. 184; p. 282.
Fruits, Fresh deciduous. Fresno Fruit Growers Company. No. 88,405; Sept. 17; Gaz. vol. 182; p. 717.
Fruits, Fresh deciduous. W. J. Wilson & Son. No. 89,591; Dec. 24; Gaz. vol. 185; p. 1051.
Furnace and stove grates. The Long Grate Bar Company. No. 86,069; Apr. 9; Gaz. vol. 177; p. 520.
Furnaces and parts thereof, Oil, coal, and gas. Rockwell Furnace Company. No. 86,733; May 28; Gaz. vol. 178; p. 1148.
Furnaces, Heating-. Bergstrom Stove Company. No. 86,026; Apr. 9; Gaz. vol. 177; p. 519.
Furnaces, Portable. R. L. Williams. No. 85,631; Feb. 27; Gaz. vol. 175; p. 1095.
Furniture. E. Greenberger & Company. No. 84,739; Jan. 2; Gaz. vol. 174; p. 283.
Furniture. E. Greenberger & Company. No. 84,958; Jan. 16; Gaz. vol. 174; p. 824.
Furniture and metal polish. J. Corcos. No. 87,169; July 2; Gaz. vol. 180; p. 316.
Furniture and woodwork polishes. Gandel & Thompson. No. 89,246; Dec. 3; Gaz. vol. 185; p. 244.
Furniture, Certain. G. Stickley Company. No. 86,006; Apr. 2; Gaz. vol. 177; p. 237.
Furniture, Certain household. International Mfg. Co. No. 85,253; Feb. 6; Gaz. vol. 175; p. 260.
Furniture, Certain named. Michigan Seating Co. No. 88,509; Sept. 24; Gaz. vol. 182; p. 967.
Furniture-finish. Flash Chemical Co. No. 88,262; Sept. 10; Gaz. vol. 182; p. 504.
Furniture, linoleum, &c., polish. J. A. Miller. No. 87,642; July 30; Gaz. vol. 180; p. 1388.
Furniture-polish. W. H. Anderson. No. 85,404; Feb. 20; Gaz. vol. 175; p. 837.
Furniture-polish. Nu-Gloss Specialty Co. No. 85,477; Feb. 20; Gaz. vol. 175; p. 839.
Furniture-polish. H. S. Thorpe. No. 87,123; June 25; Gaz. vol. 179; p. 1103.
Furniture-polish. J. Harris. No. 87,626; July 30; Gaz. vol. 180; p. 1388.
Furniture-polish. C. Anson. No. 88,230; Sept. 10; Gaz. vol. 182; p. 503.
Furs, Dressed. C. R. Protze. No. 85,376; Feb. 13; Gaz. vol. 175; p. 539.
Gages. The Reliance Gauge Column Co. No. 88,025; Aug. 20; Gaz. vol. 181; p. 816.
Gages. United States Gauge Company. No. 89,161; Nov. 12; Gaz. vol. 184; p. 547.
Game. Sidney and Smith. No. 85,014; Jan. 16; Gaz. vol. 174; p. 825.
Game. H. Joseph. No. 87,218; July 2; Gaz. vol. 180; p. 317.
Game. John Jaques & Son. No. 87,543; July 23; Gaz. vol. 180; p. 1134.
Game. Strobel & Wilken Co. No. 89,393; Dec. 10; Gaz. vol. 185; p. 521.
Game, Card. P. D. Keim. No. 85,819; Mar. 19; Gaz. vol. 176; p. 746.
Game, Certain. Bounce M'f'g Company. No. 85,552; Feb. 27; Gaz. vol. 175; p. 1093.
Game of cards, Parlor. C. G. Shaw. No. 88,708; Oct. 15; Gaz. vol. 183; p. 778.
Game-scoring boards. J. W. Baker. No. 87,034; June 25; Gaz. vol. 179; p. 1101.
Games. A. E. Lenz. No. 86,415; May 7; Gaz. vol. 178; p. 314.
Games. Rustico. No. 86,555; May 14; Gaz. vol. 178; p. 588.
Games. S. Brown. No. 86,678; May 21; Gaz. vol. 178; p. 882.
Games. W. W. Ayers. No. 87,144; July 2; Gaz. vol. 180; p. 315.
Games. H. W. Fachmann. No. 87,186; July 2; Gaz. vol. 180; p. 316.
Games. H. Thompson. No. 87,379; July 9; Gaz. vol. 180; p. 599.
Games. M. E. Moss. No. 88,192; Sept. 3; Gaz. vol. 182; p. 244.
Games. The O. Newman Company. No. 88,346; Sept. 10; Gaz. vol. 182; p. 506.
Games. M. E. Grieves. No. 89,181; Nov. 19; Gaz. vol. 184; p. 799.
Games and toys, Certain. Nürnberger Metall- und Lackierwarenfabrik vormals Gebruder Bing, Aktiengesellschaft. No. 85,272; Feb. 6; Gaz. vol. 175; p. 260.
Games, Card. J. T. Todd. No. 84,769; Jan. 2; Gaz. vol. 174; p. 284.
Games, Card. Parker Brothers. No. 85,373; Feb. 13; Gaz. vol. 175; p. 538.
Games, Card. Parker Brothers. No. 88,700; Oct. 15; Gaz. vol. 183; p. 778.
Games, Card. Parker Brothers. No. 89,416; Dec. 10; Gaz. vol. 185; p. 522.
Games, Indoor. Indoor Rugby Company. No. 85,351; Feb. 13; Gaz. vol. 175; p. 538.

Alphabetical list of trade-marks—Continued.

Games, toys, and fishing-tackle. L. J. Eppinger. No. 88,174; Sept. 3; Gaz. vol. 182; p. 243.
Games, toys, and sporting goods. C. M. McClung & Co. Nos. 87,228–9; July 2; Gaz. vol. 180; p. 317.
Garment-hangers. Tilden-Thurber Co. No. 88,135; Aug. 27; Gaz. vol. 181; p. 1069.
Garment-supporters. Harris Suspender Company. No. 84,827; Jan. 9; Gaz. vol. 174; p. 580.
Garment-weights. L. Mallach. No. 85,264; Feb. 6; Gaz. vol. 175; p. 260.
Garments for men and boys, Certain named outer. Rosenwald & Weil. No. 89,421; Dec. 10; Gaz. vol. 185; p. 522.
Garments, Ladies' outer. J. J. Friedman & Co. No. 85,102; Jan. 30; Gaz. vol. 174; p. 1212.
Garments, Sleeping-. The Burnham-Munger Mfg. Co. No. 85,555; Feb. 27; Gaz. vol. 175; p. 1093.
Garments worn by men and boys, Certain. H. Sonneborn & Co. No. 85,292; Feb. 6; Gaz. vol. 175; p. 261.
Garters. Ivory Clasp & Garter Co. No. 87,542; July 23; Gaz. vol. 180; p. 1134.
Gas and electric apparatus or fixtures. Holophane Glass Co. No. 88,085; Aug. 27; Gaz. vol. 181; p. 1068.
Gas brackets, pendants, chandeliers, &c. Beardslee Chandelier Manufacturing Company. No. 89,329; Dec. 10; Gaz. vol. 185; p. 519.
Gas-burners. Geo. Bray & Co. Nos. 87,724–5; Aug. 6; Gaz. vol. 181; p. 259.
Gas burners and tips. American Lava Co. No. 87,704; Aug. 6; Gaz. vol. 181; p. 259.
Gas burners, mantles, and lights, Incandescent. Lindsay Light Company. No. 89,122; Nov. 12; Gaz. vol. 184; p. 546.
Gas-hose attachments. Chamberlain & Schroeder. No. 87,974; Aug. 20; Gaz. vol. 181; p. 815.
Gas-mantles, Incandescent. Deutsch-Amerikanische Gasglühlicht-Gesellschaft Patent Ross G. m. b. H. Düsseldorf. No. 87,732; Aug. 6; Gaz. vol. 181; p. 260.
Gas-pressure regulators. E. J. Burns. No. 86,571; May 21; Gaz. vol. 178; p. 879.
Gaseous liquid for combustion, illuminating, &c. Myers Gas Generator Company. No. 88,330; Sept. 10; Gaz. vol. 182; p. 506.
Gasolene. Magnolia Petroleum Company. No. 85,912; Mar. 26; Gaz. vol. 176; p. 1067.
Gasolene and naphtha. Standard Oil Company. No. 86,953; June 11; Gaz. vol. 179; p. 569.
Gasolene and refined oil. West India Oil Company. No. 87,954; Aug. 13; Gaz. vol. 181; p. 538.
Gasolene, benzin, naphtha, and oil. West India Oil Company. No. 87,696; July 30; Gaz. vol. 180; p. 1390.
Gasolene, benzin, naphtha, and refined oil. West India Oil Company. No. 88,607; Oct. 1; Gaz. vol. 183; p. 215.
Gates and parts thereof, Metal. Standard Manufacturing Company. No. 89,158; Nov. 12; Gaz. vol. 184; p. 547.
Gates, Metal. Keystone Steel & Wire Company. Nos. 86,714–15; May 28; Gaz. vol. 178; p. 1148.
Gelatin, Food-. Naamlooze Vennootschap Lym-En Gelatinefabriek "Delft." No. 86,434; May 7; Gaz. vol. 178; p. 315.
Germicidal, deodorizing, and disinfecting liquid. Aschenbach & Miller. No. 85,313; Feb. 13; Gaz. vol. 175; p. 537.
Germicidal dressings. Knox Thenardine Chemical Company. No. 85,137; Jan. 30; Gaz. vol. 174; p. 1213.
Germicide, bactericide, and insecticide. West Disinfecting Company. No. 88,717; Oct. 15; Gaz. vol. 183; p. 779.
Germicides and toothache remedies. S. Fallini. No 89,638; Dec. 31; Gaz. vol. 185; p. 1374.
Gherkins and mint sauce, Sour. Francis H. Leggett & Co. No. 85,146; Jan. 30; Gaz. vol. 174; p. 1213.
Gin. Kentucky Supply Co. No. 85,820; Mar. 19; Gaz. vol. 176; p. 746.
Gin. Coates & Company. No. 87,427; July 16; Gaz. vol. 180; p. 874.
Gin. Elder-Harrison Company. No. 88,069; Aug. 2[illegible], Gaz. vol. 181; p. 1067.
Gin. The Kohn Distilling Co. No. 89,378; Dec. 10; Gaz. vol. 185; p. 520.
Gin compound. Golden Gate Co. No. 86,985; June 18; Gaz. vol. 179; p. 847.
Gingham, Zephyr. G. A. Stafford & Company. No. 88,795; Oct. 22; Gaz. vol. 183; p. 1029.
Ginghams. The Boston Manufacturing Co. 1901. No. 87,723; Aug. 6; Gaz. vol. 181; p. 259.
Glass bottles. C. M. Schofield. No. 89,508; Dec. 17; Gaz. vol. 185; p. 825.
Glass-cutters. J. W. Tucker. No. 85,296; Feb. 6; Gaz. vol. 175; p. 261.
Glass-cutters, putty-knives, scrapers, &c. Smith & Hemenway Company. No. 87,669; July 30; Gaz. vol. 180; p. 1389.
Glass, Mirror and plate. Hires Turner Glass Co. No. 84,830; Jan. 9; Gaz. vol. 174; p. 580.
Glass reflectors and shades. Holophane Glass Company. No. 88,491; Sept. 24; Gaz. vol. 182; p. 966.
Glass, Reinforced. Société du Verre Triplex. No. 88,125; Aug. 27; Gaz. vol. 181; p. 1069.
Glass, Sheet-. E. J. Walsh. No. 88,538; Sept. 24; Gaz. vol. 182; p. 967.
Glass, Window-. Hires Turner Glass Co. No. 86,407; May 7; Gaz. vol. 178; p. 314.
Glassware, Certain. Gill Brothers Company. No. 85,037; Jan. 23; Gaz. vol. 174; p. 1023.
Glassware, Certain. Gill Brothers Company. No. 85,806; Mar. 19; Gaz. vol. 176; p. 745.
Glassware, Certain. Seman Bache & Company. No. 87,310; July 9; Gaz. vol. 180; p. 597.
Glassware, Certain. Gill Brothers Company. No. 87,749; Aug. 6; Gaz. vol. 181; p. 260.
Glassware, Certain named. The Fostoria Glass Specialty Company. No. 87,741; Aug. 6; Gaz. vol. 181; p. 260.
Glassware, Cut and engraved. Corona Cut Glass Company. No. 85,034; Jan. 23; Gaz. vol. 174; p. 1023.
Glassware, especially table-glass. United States Glass Company. No. 88,138; Aug. 27; Gaz. vol. 181; p. 1069.
Gloves. Gregg Glove Co. No. 85,343; Feb. 13; Gaz. vol. 175; p. 538.
Gloves. Mills & Gibb. No. 85,367; Feb. 13; Gaz. vol. 175; p. 538.
Gloves. B. Altman & Co. No. 86,019; Apr. 9; Gaz. vol. 177; p. 519.
Gloves. Steinberger & Kalisher. No. 86,175; Apr. 16; Gaz. vol. 177; p. 767.
Gloves. Marshall Field & Company. No. 87,189; July 2; Gaz. vol. 180; p. 316.
Gloves. Lewis & Locke. No. 88,578; Oct. 1; Gaz. vol. 183; p. 214.
Gloves. B. Altman & Co. No. 88,724; Oct. 22; Gaz. vol. 183; p. 1027.
Gloves. Napa Glove Co. No. 88,921; Oct. 29; Gaz. vol. 183; p. 1303.
Gloves and mittens. The Dempster & Place Company. Nos. 85,951–2; Apr. 2; Gaz. vol. 177; p. 235.
Gloves and mittens. The Dempster & Place Company. No. 86,517; May 14; Gaz. vol. 178; p. 587.
Gloves and mittens. Mt. Pleasant Glove Manufacturing Co. No. 87,095; June 25; Gaz. vol. 179; p. 1103.
Gloves and mittens. Boss Manufacturing Company. No. 87,151; July 2; Gaz. vol. 180; p. 315.
Gloves and mittens. Boss Manufacturing Co. No. 87,598; July 30; Gaz. vol. 180; p. 1387.
Gloves, Kid and lamb. F. W. Larom. No. 85,454; Feb. 20; Gaz. vol. 175; p. 838.
Gloves, Leather. R. Lefi. No. 88,315; Sept. 10; Gaz. vol. 182; p. 505.
Glue. American Glue Company. Nos. 84,712–13; Jan. 2; Gaz. vol. 174; p. 283.
Glue. Solva Waterproof Glue Co. No. 86,247; Apr. 23; Gaz. vol. 177; p. 1040.
Glue. H. Ehrlich & Sons Mfg. Co. No. 88,473; Sept. 24; Gaz. vol. 182; p. 966.
Glue. Robert H. Foerderer, Incorporated. No. 89,180; Nov. 19; Gaz. vol. 184; p. 799.
Glue and gelatin. T. M. Duché & Sons. No. 85,955; Apr. 2; Gaz. vol. 177; p. 235.
Glues, adhesive gums and pastes, and mucilage. National Gum & Mica Co. No. 85,474; Feb. 20; Gaz. vol. 175; p. 839.
Go-carts and baby-carriages. M. L. Bloch. No. 86,511; May 14; Gaz. vol. 178; p. 587.
Go-carts and baby-carriages. S. Moskowitz. No. 88,770; Oct. 22; Gaz. vol. 183; p. 1028.
Go-carts, Folding. Alwin Manufacturing Company. No. 85,788; Mar. 19; Gaz. vol. 176; p. 745.
Gold-leaf. Kresin Brothers. No. 89,035; Nov. 5; Gaz. vol. 184; p. 282.
Golf cleeks, irons, and clubs. W. Gibson and Company. No. 88,272; Sept. 10; Gaz. vol. 182; p. 504.
Golf-clubs. Wright & Ditson. No. 87,300; July 2; Gaz. vol. 180; p. 319.
Gowns, Ladies'. The Wolf Company. No. 85,536; Feb. 20; Gaz. vol. 175; p. 841.
Grading machines, Road-. Glide Road Machine Company. No. 89,355; Dec. 10; Gaz. vol. 185; p. 520.
Grape and cranberry juices. Crowell Fruit Juice Co. No. 86,578; May 21; Gaz. vol. 178; p. 879.
Grape-fruit, oranges, lemons, limes, and pineapples. Mexico Land Company. No. 89,483; Dec. 17; Gaz. vol. 185; p. 824.
Grape-fruits and oranges. L. A. Redfield. No. 88,361; Sept. 10; Gaz. vol. 182; p. 507.
Grape-juice. Schühle's Pure Grape Juice Co. No. 87,665; July 30; Gaz. vol. 180; p. 1389.
Grape-juice. Fleming & Christian Co. No. 87,869; Aug. 13; Gaz. vol. 181; p. 536.
Grape-juice and boiled cider. Franklin MacVeagh & Company. No. 85,263; Feb. 6; Gaz. vol. 175; p. 260.
Grapes, Fresh. T. H. Lynch. No. 86,418; May 7; Gaz. vol. 178; p. 315.
Grapes, peaches, and oranges, Fresh. Dickey & Dickey. No. 86,680; May 21; Gaz. vol. 178; p. 882.
Graphite. Saratoga Graphite Company. No. 85,771; Mar. 12; Gaz. vol. 176; p. 522.
Grates. Salamander Grate Bar Co. No. 84,755; Jan. 2; Gaz. vol. 174; p. 284.
Grates and fire-baskets. Rathbone Fireplace Manufacturing Co. No. 87,806; Aug. 6; Gaz. vol. 181; p. 262.

Alphabetical list of trade-marks—Continued.

Grates, Furnace and stove. The Long Grate Bar Company. No. 89,276; Dec. 3; Gaz. vol. 185; p. 245.
Gravers. Hammel Riglander & Co. No. 85,995; Apr. 2; Gaz. vol. 177; p. 236.
Grease, Lubricant-. Burko Grease Co. No. 85,943; Apr. 2; Gaz. vol. 177; p. 235.
Grease, Lubricating-. Joseph Dixon Crucible Co. No. 85,800; Mar. 19; Gaz. vol. 176; p. 745.
Grease, Lubricating-. Economy Lubricating Co. No. 88,561; Oct. 1; Gaz. vol. 183; p. 213.
Greases, Cup-. Utah Oil Refining Company. No. 86,184; Apr. 16; Gaz. vol. 177; p. 767.
Greases, Gear-. Utah Oil Refining Company. No. 86,967; June 11; Gaz. vol. 179; p. 570.
Greases, Lubricating-. Pennsylvania Lubricating Company. No. 87,796; Aug. 6; Gaz. vol. 181; p. 261.
Griddles, Asbestos and cement. Hall & Carpenter. No. 85,743; Mar. 12; Gaz. vol. 176; p. 521.
Grinding-mill for fruit and similar substances. The Cutaway Harrow Co. No. 89,097; Nov. 12; Gaz. vol. 184; p. 545.
Guano and fertilizer. A. D. Adair & McCarty Bros. No. 89,174; Nov. 19; Gaz. vol. 184; p. 799.
Guano-distributers. Dillon Plow & Novelty Works. No. 88,253; Sept. 10; Gaz. vol. 182; p. 504.
Gum, Base used in the manufacture of chewing-. International Chewing Gum Company. No. 87,767; Aug. 6; Gaz. vol. 181; p. 261.
Gum, Chewing-. The Tom Wilson Manufacturing Company. No. 84,893; Jan. 9; Gaz. vol. 174; p. 581.
Gum, Chewing-. Snow-Man Products Co. No. 85,016; Jan. 16; Gaz. vol. 174; p. 825.
Gum, Chewing-. Reedy Brothers Gum Company. No. 85,401; Feb. 20; Gaz. vol. 175; p. 837.
Gum, Chewing-. Reedy Brothers Gum Company. No. 85,493; Feb. 20; Gaz. vol. 175; p. 839.
Gum, Chewing-. W. W. Bagley. No. 85,640; Mar. 5; Gaz. vol. 176; p. 269.
Gum, Chewing-. R. L. Johnstone. No. 85,750; Mar. 12; Gaz. vol. 176; p. 522.
Gum, Chewing-. L. P. Larson, Jr. Company. No. 85,910; Mar. 26; Gaz. vol. 176; p. 1067.
Gum, Chewing-. Wheeling Gum Company. No. 86,491; May 7; Gaz. vol. 178; p. 317.
Gum, Chewing-. J. B. Robbins. No. 86,939; June 11; Gaz. vol. 179; p. 569.
Gum, Chewing-. H. C. Wilkinson. No. 87,297; July 2; Gaz. vol. 180; p. 319.
Gum, Chewing-. D. L. Clark Company. No. 87,426; July 16; Gaz. vol. 180; p. 874.
Gum, Chewing-. R. E. Reedy. No. 87,926; Aug. 13; Gaz. vol. 181; p. 537.
Gum, Chewing-. The Bee Bee Confection Co. No. 88,455; Sept. 24; Gaz. vol. 182; p. 965.
Gum, Chewing-. Autosales Gum & Chocolate Company. No. 89,609; Dec. 31; Gaz. vol. 185; p. 1373.
Gum, Vegetable gums for the manufacture of chewing-. G. W. Sherman. No. 86,464; May 7; Gaz. vol. 178; p. 316.
Gummed paper tape, glue, and mucilage. Tower Manufacturing & Novelty Co. No. 87,500; July 16; Gaz. vol. 180; p. 876.
Haddies, Smoked finnan. G. W. Kinsey. No. 87,458; July 16; Gaz. vol. 180; p. 875.
Hair and doll's hair, Imitation. Speights Limited. No. 87,816; Aug. 6; Gaz. vol. 181; p. 262.
Hair and scalp tonic. W. B. McCoy. No. 89,127; Nov. 12; Gaz. vol. 184; p. 546.
Hair-bangs. Hyman & Oppenheim. No. 88,755; Oct. 22; Gaz. vol. 183; p. 1028.
Hair-cutting machines. Weyersberg Kirchbaum & Cie. Nos. 88,650–1; Oct. 8; Gaz. vol. 183; p. 500.
Hair-cutting machines and scissors. P. L. Schmidt. No. 87,812; Aug. 6; Gaz. vol. 181; p. 262.
Hair-driers and vibrators, Electric. The Royal Specialty Company. No. 85,770; Mar. 12; Gaz. vol. 176; p. 522.
Hair-eradicator. B. E. Levy. No. 88,502; Sept. 24; Gaz. vol. 182; p. 966.
Hair-grower. L. E. Warren. No. 85,208; Jan. 30; Gaz. vol. 174; p. 1215.
Hair in certain named forms, False. A. Simonson. No. 88,965; Oct. 29; Gaz. vol. 183; p. 1305.
Hair-invigorator. The Luxo Company. No. 85,363; Feb. 13; Gaz. vol. 175; p. 538.
Hair-nets. Marshall Field & Company. No. 85,572; Feb. 27; Gaz. vol. 175; p. 1094.
Hair-nets. Silverberg Import Co. Nos. 87,111–13; June 25; Gaz. vol. 179; p. 1103.
Hair-nets. Silverberg Import Co. No. 87,374; July 9; Gaz. vol. 180; p. 599.
Hair-nets. Mills, Duflot & Company. No. 87,786; Aug. 6; Gaz. vol. 181; p. 261.
Hair-nets. A. J. Hague & Co. No. 88,748; Oct. 22; Gaz. vol. 183; p. 1027.
Hair-nets. Singer, Schaffer & Co. No. 88,793; Oct. 22; Gaz. vol. 183; p. 1029.
Hair-nets. Rudolf Saenger Co. No. 89,582; Dec. 24; Gaz. vol. 185; p. 1050.
Hair-nets. Silverberg Import Co. No. 89,707; Dec. 31; Gaz. vol. 185; p. 1376.
Hair-oils and unguents. A. K. Ziemssen. No. 86,855; June 4; Gaz. vol. 179; p. 283.
Hair or scalp tonic. R. R. Vecchiolli. No. 85,627; Feb. 27; Gaz. vol. 175; p. 1095.
Hair-pins. Pacific Novelty Company. No. 87,794; Aug. 6; Gaz. vol. 181; p. 261.
Hair-powder, Saponaceous. Harding & Sons. No. 88,873; Oct. 29; Gaz. vol. 183; p. 1302.
Hair, Preparation for restoring gray. Lu-E-Sa Remedy Co. No. 86,228; Apr. 23; Gaz. vol. 177; p. 1040.
Hair remedies. F. A. Gray. No. 89,250; Dec. 3; Gaz. vol. 185; p. 244.
Hair-remover. The Obur Company. No. 86,236; Apr. 23; Gaz. vol. 177; p. 1040.
Hair-restorer. M. Millar. No. 86,229; Apr. 23; Gaz. vol. 177; p. 1040.
Hair-stains. H. E. Nichols. No. 85,607; Feb. 27; Gaz. vol. 175; p. 1095.
Hair-steaming device. T. Grosert. No. 89,555; Dec. 24; Gaz. vol. 185; p. 1050.
Hair-tonic. H. J. Loubeque. No. 84,782; Jan. 2; Gaz. vol. 174; p. 285.
Hair-tonic. T. Manganiello. No. 84,783; Jan. 2; Gaz. vol. 174; p. 285.
Hair-tonic. A. C. Ellerbe. No. 84,902; Jan. 9; Gaz. vol. 174; p. 582.
Hair-tonic. L. Randal. No. 85,491; Feb. 20; Gaz. vol. 175; p. 839.
Hair-tonic. G. A. Koch. No. 85,595; Feb. 27; Gaz. vol. 175; p. 1094.
Hair-tonic. White & Hoy. No. 85,630; Feb. 27; Gaz. vol. 175; p. 1095.
Hair-tonic. H. W. Taylor & Co. No. 85,717; Mar. 5; Gaz. vol. 176; p. 271.
Hair-tonic. Lanman & Kemp. No. 85,753; Mar. 12; Gaz. vol. 176; p. 522.
Hair-tonic. M. Vandame. No. 86,255; Apr. 23; Gaz. vol. 177; p. 1040.
Hair-tonic. A. Residori. No. 86,451; May 7; Gaz. vol. 178; p. 316.
Hair-tonic. D. D. Wood. No. 86,494; May 7; Gaz. vol. 178; p. 317.
Hair-tonic. L. R. Fiebert. No. 86,797; June 4; Gaz. vol. 179; p. 281.
Hair-tonic. Frawley Brothers. No. 87,329; July 9; Gaz. vol. 180; p. 597.
Hair-tonic. E. Spenard. No. 87,570; July 23; Gaz. vol. 180; p. 1134.
Hair-tonic. Richard Hudnut. No. 88,087; Aug. 27; Gaz. vol. 181; p. 1068.
Hair-tonic. F. G. Conway. No. 88,849; Oct. 29; Gaz. vol. 183; p. 1301.
Hair-tonic. Warshaw Brothers. No. 89,312; Dec. 3; Gaz. vol. 185; p. 246.
Hair tonic and pomade. Seeby Drug Company. No. 85,621; Feb. 27; Gaz. vol. 175; p. 1095.
Hair tonic and pomatum. B. L. Brun. No. 86,377; May 7; Gaz. vol. 178; p. 313.
Hair-tonic and remedies for hay-fever, catarrh, &c. Azone Manufacturing Company. No. 84,716; Jan. 2; Gaz. vol. 174; p. 283.
Hair-tonic and shampoo preparations. F. E. Lester. No. 86,416; May 7; Gaz. vol. 178; p. 315.
Hair-tonic, face cream and powder, &c. Seven Sutherland Sisters. No. 89,706; Dec. 31; Gaz. vol. 185; p. 1376.
Hair-tonics. R. D. Denise. No. 84,729; Jan. 2; Gaz. vol. 174; p. 283.
Hair-tonics. N. A. Anderson. No. 87,840; Aug. 13; Gaz. vol. 181; p. 535.
Hair-tonics. J. J. Schimmel. No. 89,152; Nov. 12; Gaz. vol. 184; p. 547.
Hair-water. G. Dralle. No. 86,979; June 18; Gaz. vol. 179; p. 847.
Ham, bacon, and lard. Hull & Dillon Pkg. Co. No. 87,452; July 16; Gaz. vol. 180; p. 874.
Ham, bacon, and pure lard. The Hull & Dillon Pkg. Co. No. 88,884; Oct. 29; Gaz. vol. 183; p. 1302.
Hams and bacon. The Cudahy Packing Company No. 86,886; June 11; Gaz. vol. 179; p. 567.
Hams and bacon. Jacob E. Decker & Sons. No. 87,176; July 2; Gaz. vol. 180; p. 316.
Hams, bacon, and lard. Carondelet Packing Company. No. 85,070; Jan. 30; Gaz. vol. 174; p. 1211.
Hams, bacon, and lard. Carstens Packing Company. No. 88,842; Oct. 29; Gaz. vol. 183; p. 1301.
Hams, bacon, and sausage. Louis Pfaelzer & Sons. No. 88,420; Sept. 17; Gaz. vol. 182; p. 717.
Hams, bacon, lard, and sausage. H. Statter. No. 86,344; Apr. 30; Gaz. vol. 177; p. 1293.
Hams, bacon, shoulders, and sausage. National Packing Company. No. 89,574; Dec. 24; Gaz. vol. 185; p. 1050.
Hams, Cooked. E. Martens. No. 88,904; Oct. 29; Gaz. vol. 183; p. 1303.
Hames. U. S. Hame Company. No. 86,640; May 21; Gaz. vol. 178; p. 881.
Hames. U. S. Hame Company. Nos. 86,839–40; June 4; Gaz. vol. 179; p. 283.

Alphabetical list of trade-marks—Continued.

Hames. U. S. Hame Company. No. 87,289; July 2; Gaz. vol. 180; p. 319.
Hammer and hatchet handles, Hickory. C. Stossel & Company. No. 88,643; Oct. 8; Gaz. vol. 183; p. 500.
Hammers, Power and trip. Beaudry & Company. No. 88,994; Nov. 5; Gaz. vol. 184; p. 281.
Hammocks. H. L. Hohlfeld. No. 86,909; June 11; Gaz. vol. 179; p. 568.
Handkerchiefs. Cochrane Manufacturing Co. No. 84,940; Jan. 16; Gaz. vol. 174; p. 823.
Handkerchiefs. Newark Embroidery Works. No. 85,475; Feb. 20; Gaz. vol. 175; p. 839.
Handkerchiefs. Carter & Holmes. No. 85,945; Apr. 2; Gaz. vol. 177; p. 235.
Handkerchiefs. John V. Farwell Company. No. 86,899; June 11; Gaz. vol. 179; p. 568.
Handkerchiefs. Heller & Long. No. 86,906; June 11; Gaz. vol. 179; p. 568.
Handkerchiefs. Heller & Long. No. 86,989; June 18; Gaz. vol. 179; p. 847.
Handkerchiefs. Heller & Long. No. 87,535; July 23; Gaz. vol. 180; p. 1133.
Handkerchiefs. George E. Chandler Company. No. 87,975; Aug. 20; Gaz. vol. 181; p. 815.
Handkerchiefs. Heller & Long. No. 88,283; Sept. 10; Gaz. vol. 182; p. 504.
Handkerchiefs. Carson, Pirie, Scott & Co. No 88,732; Oct. 22; Gaz. vol. 183; p. 1027.
Handkerchiefs and kerchiefs. James R. Keiser, Inc. No. 87,080; June 25; Gaz. vol. 179; p. 1102.
Handkerchiefs and kerchiefs. James R. Keiser, Inc. No. 87,545; July 23; Gaz. vol. 180; p. 1134.
Handkerchiefs and kerchiefs. James R. Keiser, Inc. No. 87,772; Aug. 6; Gaz. vol. 181; p. 261.
Handkerchiefs, Cotton. Tootal Broadhurst Lee Company. No 84,886; Jan. 9; Gaz. vol. 174; p. 581.
Handkerchiefs, vestings, veilings, silk piece goods, &c. Bonwit, Teller & Co. No. 87,519; July 23; Gaz. vol. 180; p. 1133.
Handles, Wooden. L. W. Strock. No. 87,679; July 30; Gaz. vol. 180; p. 1390.
Hardware and plumbing and steam-fitting supplies. C. M. McClung & Co. No. 86,722; May 28; Gaz. vol. 178; p. 1148.
Hardware and plumbing and steam-fitting supplies. Detroit Sanitary Supply Co. No. 86,893; June 11; Gaz. vol. 179; p. 568.
Hardware and plumbing and steam-fitting supplies, Certain named. Phillips Lead & Supply Co. No. 89,498; Dec. 17; Gaz. vol. 185; p. 825.
Hardware and plumbing and steam-fitting supplies, Certain named. Illinois Malleable Iron Co. No. 89,661; Dec. 31; Gaz. vol. 185; p. 1375.
Hardware and plumbing goods, Certain. J. P. Putnam. No. 87,803; Aug. 6; Gaz. vol. 181; p. 262.
Hardware and plumbing supplies, Certain. American Iron and Steel Manufacturing Company. No. 86,566; May 21; Gaz. vol. 178; p. 879.
Hardware and plumbing supplies, Certain. C. M. McClung & Co. No. 88,331; Sept. 10; Gaz. vol. 182; p. 506.
Hardware articles, Certain named. The Collins Company. No. 89,008; Nov. 5; Gaz. vol. 184; p. 281.
Hardware, Certain. American Iron and Steel Manufacturing Company. Nos. 86,683–8; May 28; Gaz. vol. 178; p. 1147.
Hardware, Certain named. Champion Safety Lock Company. No. 87,601; July 30; Gaz. vol. 180; p. 1387.
Hardware, cooking utensils, and wire-cloth, Certain. Janney, Semple, Hill & Co. No. 84,748; Jan. 2; Gaz. vol. 174; p. 284.
Hardware, Harness. Covert Mfg. Co. No. 85,082; Jan. 30; Gaz. vol. 174; p. 1212.
Hardware, plumbing, and steam-fitting supplies, Certain named. Columbian Enameling & Stamping Co. No. 89,539; Dec. 24; Gaz. vol. 185; p. 1049.
Hardware, Saddlery and harness. The Seneca Chain Company. No. 85,012; Jan. 16; Gaz. vol. 174; p. 825.
Hardware supplies, Certain. Coonley Manufacturing Company. No. 86,577; May 21; Gaz. vol. 178; p. 879.
Hardware supplies, Certain. The A. J. Harwi Hardware Company. No. 86,589; May 21; Gaz. vol. 178; p. 879.
Hardware supplies, Certain. Rothschild, Meyers & Co. No. 86,620; May 21; Gaz. vol. 178; p. 880.
Harmonicas. M. Hohner. No. 87,451; July 16; Gaz. vol. 180; p. 874.
Harmonicas. M. Hohner. Nos. 88,292–3; Sept. 10; Gaz. vol. 182; p. 505.
Harmonicas and accordions. C. Weiss. No. 89,590; Dec. 24; Gaz. vol. 185; p. 1051.
Harmonicas and jews'-harps. Tower Manufacturing & Novelty Co. No. 87,380; July 9; Gaz. vol. 180; p. 599.
Harness. John C. Nichols Harness Manufacturing Company. No. 86,931; June 11; Gaz. vol. 179; p. 569.
Harness and horse-collars. Kelley-How-Thomson Co. No. 85,358; Feb. 13; Gaz. vol. 175; p. 538.
Harness and saddlery hardware, Certain parts of. August Buermann Manufacturing Co. No. 88,465; Sept. 24; Gaz. vol. 182; p. 965.
Harness, Certain parts of. B & F Manufacturing Co. No. 85,317; Feb. 13; Gaz. vol. 175; p. 537.
Harness, fly-nets, horse-collars, and saddles. Hess & Hopkins Leather Company. No. 87,760; Aug. 6; Gaz. vol. 181; p. 260.
Harness, saddles, and collars. Orman Partee Saddlery Co. No. 86,152; Apr. 16; Gaz. vol. 177; p. 766.
Harvesters and traction-engines. The Best Manufacturing Company. No. 87,720; Aug. 6; Gaz. vol. 181; p. 259.
Hat-pins. E. E. Dunn. No. 86,290; Apr. 30; Gaz. vol. 177; p. 1291.
Hats. Les Fils Pinay Jeune. No. 85,261; Feb. 6; Gaz. vol. 175; p. 260.
Hats. L. Galitzki. No. 86,799; June 4; Gaz. vol. 179; p. 282.
Hats. F. W. Smith & Company. No. 87,267; July 2; Gaz. vol. 180; p. 318.
Hats. Vanderhoef & Company. Nos. 88,389–90; Sept. 10; Gaz. vol. 182; p. 507.
Hats. The Regal Hat Company. No. 89,418; Dec. 10; Gaz. vol. 185; p. 522.
Hats and caps. W. G. Levan and Sons. No. 84,980; Jan. 16; Gaz. vol. 174; p. 824.
Hats and caps. Karp & London. No. 85,591; Feb. 27; Gaz. vol. 175; p. 1094.
Hats and caps. Irving Hat Co. No. 85,970; Apr. 2; Gaz. vol. 177; p. 236.
Hats and caps. Buchstahl & Lewis. No. 86,378; May 7; Gaz. vol. 178; p. 313.
Hats and caps. Irving Hat Co. No. 86,711; May 28; Gaz. vol. 178; p. 1148.
Hats and caps, Men's and boys' felt. Hill & Loper Co. No. 88,750; Oct. 22; Gaz. vol. 183; p. 1028.
Hats and shoes. C. Kenyon Co. No. 87,220; July 2; Gaz. vol. 180; p. 317.
Hats, hat-frames, muffs, and wraps, Women's. Florette. No. 86,294; Apr. 30; Gaz. vol. 177; p. 1292.
Hats, helmets, caps, and bonnets. New Failsworth Hat Manufacturing Company. No. 88,342; Sept. 10; Gaz. vol. 182; p. 506.
Hats, Ladies'. Bovio Bros. & D. Donne. No. 88,235; Sept. 10; Gaz. vol. 182; p. 503.
Hats, Ladies' and misses'. L. F. Castle Company. No. 85,323; Feb. 13; Gaz. vol. 175; p. 537.
Hats, shirts, infants' wrappers, &c., Sun-. The Sheldon Dry Goods Company. No. 89,424; Dec. 10; Gaz. vol. 185; p. 522.
Hats, Straw. C. Levy's Sons. No. 86,310; Apr. 30; Gaz. vol. 177; p. 1292.
Hatchets. Burgess-Norton Mfg. Company. No. 87,847; Aug. 13; Gaz. vol. 181; p. 535.
Hay, feed, or litter carriers. M. B. Moyer. No. 87,094; June 25; Gaz. vol. 179; p. 1103.
Hay-knives, grass-shears, axes, &c. Dunn Edge Tool Company. No. 87,612; July 30; Gaz. vol. 180; p. 1388.
Headlights and devices therefor, Electric. Pyle-National Electric Headlight Company. No. 89,578; Dec. 24; Gaz. vol. 185; p. 1050.
Heat-insulating materials. Armstrong Cork Company. No. 86,503; May 14; Gaz. vol. 178; p. 587.
Heaters and gas-burners for heating purposes, Hot-water. Eureka Water Heater Co. No. 86,521; May 14; Gaz. vol. 178; p. 587.
Heaters and parts thereof. Spencer Heater Company. No. 87,817; Aug. 6; Gaz. vol. 181; p. 262.
Heaters and parts thereof, Steam and hot-water. Spencer Heater Company. No. 89,512; Dec. 17; Gaz. vol. 185; p. 825.
Heaters and stoves, Certain named. Champion Stove Co. No. 88,552; Oct. 1; Gaz. vol. 183; p. 213.
Heaters, Certain named. The Green Fuel Economizer Co. No. 87,752; Aug. 6; Gaz. vol. 181; p. 260.
Heaters, Water-. Ruud Manufacturing Company. No. 86,556; May 14; Gaz. vol. 178; p. 588.
Heating apparatus and parts thereof, Certain named. New Vacuum Heating Co. No. 89,195; Nov. 19; Gaz vol. 184; p. 799.
Heating apparatus, Certain named. I. A. Sheppard & Co. No. 89,585; Dec. 24; Gaz. vol. 185; p. 1050.
Heating, lighting, and ventilating apparatus, Certain. The Turner Brass Works. No. 85,526; Feb. 20; Gaz. vol. 175; p. 840.
Heating, lighting, and ventilating apparatus, Certain. The Nagel-Chase Manufacturing Company. No. 86,820; June 4; Gaz. vol. 179; p. 282.
Herring, Fresh. Seacoast Canning Co. No. 86,094; Apr. 9; Gaz. vol. 177; p. 521.
Herrings and sardines. A/S Sardinfabrikken Norrig. No. 87,304; July 9; Gaz. vol. 180; p. 597.
Hog and pig rings and ringers. W. E. Pratt. No. 86,616; May 21; Gaz. vol. 178; p. 880.
Honey. The Fort Scott Sorghum Syrup Co. No. 89,103; Nov. 12; Gaz. vol. 184; p. 545.
Honey. The Fort Scott Sorghum Syrup Co. No. 89,244; Dec. 3; Gaz. vol. 185; p. 244.
Hoof-pads, Leather. United States Chrome Sole Company. No. 84,921; Jan. 9; Gaz. vol. 174; p. 582.
Hooks and eyes. The De Long Hook and Eye Company. Nos. 89,549–50; Dec. 24; Gaz. vol. 185; p. 1049.
Hooks, bath showers and sprays, bread-molds, &c. Silver & Company. No. 86,833; June 4; Gaz. vol. 179; p. 283.

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Hooks, Wall-. I. A. M. Larsson. No. 88,004; Aug. 20; Gaz. vol. 181; p. 816.
Horns, Automobile-. Aermore Manufacturing Company. Nos. 89,425–6; Dec. 17; Gaz. vol. 185; p. 823.
Horns, Electric signaling-. The Dean Electric Company. No. 86,701; May 28; Gaz. vol. 178; p. 1147.
Horns, whistles, and similar sound-producing devices for automobiles. The Randall-Faichney Co. No. 85,919; Mar. 26; Gaz. vol. 176; p. 1067.
Horns, whistles, &c., for automobiles and other vehicles. Randall-Faichney Company. No. 87,255; July 2; Gaz. vol. 180; p. 318.
Horseshoe-calks. The Rowe Patent Calk Company. No. 86,335; Apr. 30; Gaz. vol. 177; p. 1293.
Horseshoe-calks. Rowe Patent Calk Company. No. 87,564; July 23; Gaz. vol. 180; p. 1134.
Horseshoe-calks. The Rowe Patent Calk Company. Nos. 88,366–70; Sept. 10; Gaz. vol. 182; p. 507.
Horseshoe-calks. Challoner Company. No. 88,467; Sept. 24; Gaz. vol. 182; p. 965.
Horseshoes. The Ring-Point Company. No. 85,496; Feb. 20; Gaz. vol. 175; p. 839.
Hose and boys' hosiery, Men's half-. J. W. Grant. No. 89,554; Dec. 24; Gaz. vol. 185; p. 1050.
Hose-clamps. J. R. Clancy. No. 85,226; Feb. 6; Gaz. vol. 175; p. 259.
Hose, Cotton rubber-lined. Empire Rubber Manufacturing Company. No. 85,568; Feb. 27; Gaz. vol. 175; p. 1093.
Hose, half-hose, and gloves. W. Tyler Sons & Co. No. 87,575; July 23; Gaz. vol. 180; p. 1134.
Hose made of rubber and fabric. Voorhees Rubber Manufacturing Company. Nos. 89,165–7; Nov. 12; Gaz. vol. 184; p. 547.
Hose, Metal. Pennsylvania Flexible Metallic Tubing Company. No. 87,919; Aug. 13; Gaz. vol. 181; p. 537.
Hose-supporters. S. Buyer. No. 88,056; Aug. 27; Gaz. vol. 181; p. 1067.
Hose-supporters, armbands, dress-shields, &c. S. Buyer. No. 87,727; Aug. 6; Gaz. vol. 181; p. 259.
Hose, tubing, valves, packing, &c. Imperial Rubber Co. No. 89,467; Dec. 17; Gaz. vol. 185; p. 824.
Hosiery. Miller & Sons Co. No. 84,787; Jan. 2; Gaz. vol. 174; p. 285.
Hosiery. Paramount Knitting Company. No. 84,914; Jan. 9; Gaz. vol. 174; p. 582.
Hosiery. Carter, Webster & Co. No. 84,935; Jan. 16; Gaz. vol. 174; p. 823.
Hosiery. Ipswich Mills. No. 84,968; Jan. 16; Gaz. vol. 174; p. 824.
Hosiery. E. Sutro & Son Company. No. 85,018; Jan. 16; Gaz. vol. 174; p. 825.
Hosiery. The Pittsburgh Dry Goods Company. No. 85,025; Jan. 16; Gaz. vol. 174; p. 826.
Hosiery. Manchester Hosiery Mills Co. No. 85,151; Jan. 30; Gaz. vol. 174; p. 1214.
Hosiery. Wear Knitting Co. No. 85,211; Jan. 30; Gaz. vol. 174; p. 1215.
Hosiery. John M. Given, Inc. Nos. 85,240–1; Feb. 6; Gaz. vol. 175; p. 260.
Hosiery. Middlesex Company. No. 85,366; Feb. 13; Gaz. vol. 175; p. 538.
Hosiery. The Pittsburgh Dry Goods Company. No. 85,485; Feb. 20; Gaz. vol. 175; p. 839.
Hosiery. T. E. Brown & Sons. No. 85,553; Feb. 27; Gaz. vol. 175; p. 1093.
Hosiery. Richmond Hosiery Mills. No. 85,617; Feb. 27; Gaz. vol. 175; p. 1095.
Hosiery. Edson, Moore & Co. No. 86,043; Apr. 9; Gaz. vol. 177; p. 519.
Hosiery. L. Kaufman. No. 86,139; Apr. 16; Gaz. vol. 177; p. 765.
Hosiery. Paramount Knitting Company. Nos. 86,326–7; Apr. 30; Gaz. vol. 177; p. 1293.
Hosiery. Baltimore Bargain House. Nos. 86,505–6; May 14; Gaz. vol. 178; p. 587.
Hosiery. Interwoven Stocking Company. No. 86,994; June 18; Gaz. vol. 179; p. 847.
Hosiery. Paramount Knitting Company. No. 87,002; June 18; Gaz. vol. 179; p. 848.
Hosiery. Elizabeth City Hosiery Co. No. 87,056; June 25; Gaz. vol. 179; p. 1102.
Hosiery. Wovenright Knitting Company. No. 87,389; July 9; Gaz. vol. 180; p. 599.
Hosiery. Wm. R. Moore Dry Goods Company. No. 87,437; July 16; Gaz. vol. 180; p. 874.
Hosiery. Elizabeth City Hosiery Co. No. 87,466; July 16; Gaz. vol. 180; p. 875.
Hosiery. Shaw Stocking Company. No. 87,813; Aug. 6; Gaz. vol. 181; p. 262.
Hosiery. Rosenau & Loeb. No. 87,930; Aug. 13; Gaz. vol. 181; p. 537.
Hosiery. The Powell Knitting Co. No. 88,023; Aug. 20; Gaz. vol. 181; p. 816.
Hosiery. Lord & Taylor. No. 88,097; Aug. 27; Gaz. vol. 181; p. 1068.
Hosiery. Orion Knitting Mills. No. 88,350; Sept. 10; Gaz. vol. 182; p. 506.
Hosiery. Oneida Regal Textile Co. No. 88,782; Oct. 22; Gaz. vol. 183; p. 1028.
Hosiery. E. Sutro and Son Company. No. 88,802; Oct. 22; Gaz. vol. 183; p. 1029.
Hosiery. C. B. Rouss. No. 88,957; Oct. 29; Gaz. vol. 183; p. 1304.
Hosiery. E. M. Townsend & Co. No. 88,977; Oct. 29; Gaz. vol. 183; p. 1305.
Hosiery. K. Solomon & Co. No. 89,208; Nov. 19; Gaz. vol. 184; p. 800.
Hosiery. Belleville Hosiery Mills. No. 89,331; Dec. 10; Gaz. vol. 185; p. 519.
Hosiery. John M. Given, Inc. No. 89,647; Dec. 31; Gaz. vol. 185; p. 1374.
Hosiery. E. M. Townsend & Co. No. 89,716; Dec. 31; Gaz. vol. 185; p. 1376.
Hosiery, Children's and infants'. Taliaferro & Sherwood. No. 88,031; Aug. 20; Gaz. vol. 181; p. 817.
Hosiery, knit underwear, and sweaters. Moorhead Knitting Company. No. 88,775; Oct. 22; Gaz. vol. 183; p. 1028.
Hosiery, petticoats, and muslin underwear. Swenson Bros. Co. No. 85,201; Jan. 30; Gaz. vol. 174; p. 1215.
Household utensils and certain plumbing supplies. Porcelain Enameling Ass'n of America. No. 85,486; Feb. 20; Gaz. vol. 175; p. 839.
Houses, Knockdown. North American Construction Company. No. 89,135; Nov. 12; Gaz. vol. 184; p. 546.
Hydrogen peroxid. The Arthur Chemical Company. No. 85,407; Feb. 20; Gaz. vol. 175; p. 837.
Hydrogen peroxid. Consumers Company. No. 85,846; Mar. 26; Gaz. vol. 176; p. 1065.
Ice. Berryman & Schlegelmilch. No. 87,148; July 2; Gaz. vol. 180; p. 315.
Ice-cream. P. G. Liebmann. No. 86,068; Apr. 9; Gaz. vol. 177; p. 520.
Ice-cream. Breyer Ice Cream Co. No. 86,676; May 21; Gaz. vol. 178; p. 882.
Ice-cream. Maryland Ice Cream and Fruit Products Co. No. 89,126; Nov. 12; Gaz. vol. 184; p. 546.
Ice-cream cones. Granger & Houghton. No. 87,067; June 25; Gaz. vol. 179; p. 1102.
Ice-cream cones. E. J. Aubry. No. 89,608; Dec. 31; Gaz. vol. 185; p. 1373.
Ice-cream freezers. The Dana Manufacturing Company. No. 86,515; May 14; Gaz. vol. 178; p. 587.
Ice-cream, Preparation for improving. B. Heller & Co. No. 86,591; May 21; Gaz. vol. 178; p. 879.
Ichthyol-surrogate and mineral oils. S. A. Miniere Scisti Bituminosi di Meride e Besano. No. 87,108; June 25; Gaz. vol. 179; p. 1103.
Incandescent burners and mantles. J. Visseaux. No. 86,748; May 28; Gaz. vol. 178; p. 1149.
Incandescent mantles. Rhenania Glühlicht Comp. G. m. b. H. No. 86,331; Apr. 30; Gaz. vol. 177; p. 1293.
Incubators and brooders. The Rayo Incubator Company. No. 85,492; Feb. 20; Gaz. vol. 175; p. 839.
Indicators and recorders, Speed, distance, and revolution. Sears-Cross Company. No. 87,666; July 30; Gaz. vol. 180; p. 1389.
Inhalation apparatus. Oxymedeor Inhalation Company. No. 85,480; Feb. 20; Gaz. vol. 175; p. 839.
Inhaling-tubes. F. Fuller. No. 89,104; Nov. 12; Gaz. vol. 184; p. 545.
Ink and inking materials. Certain named. Tower Manufacturing & Novelty Co. No. 87,685; July 30; Gaz. vol. 180; p. 1390.
Ink-erasers, Glass. Beegee Company. No. 89,529; Dec. 24; Gaz. vol. 185; p. 1049.
Ink, Preparation for removing printers'. Henkel & Cie. No. 88,489; Sept. 24; Gaz. vol. 182; p. 966.
Ink, Printing-. American Printing Ink Co. No. 87,587; July 30; Gaz. vol. 180; p. 1387.
Inks, Writing-. S. S. Stafford, Inc. No. 86,171; Apr. 16; Gaz. vol. 177; p. 767.
Ink, Writing-. The American Ink Company. No. 89,429; Dec. 17; Gaz. vol. 185; p. 823.
Ink, Writing and drawing. C. Haeusser. No. 88,871; Oct. 29; Gaz. vol. 183; p. 1302.
Inks. Howard Chemical & Manufacturing Company. No. 88,492; Sept. 24; Gaz. vol. 182; p. 966.
Inks, Printing-. Philip Ruxton, Inc. No. 88,704; Oct. 15; Gaz. vol. 183; p. 778.
Insect-catcher. Russell & Proell. No. 86,554; May 14; Gaz. vol. 178; p. 588.
Insect-destroyer. Magic Chemical Company. No. 86,419; May 7; Gaz. vol. 178; p. 315.
Insecticide. A. L. Paul. No. 85,170; Jan. 30; Gaz. vol. 174; p. 1214.
Insecticide. J. T. Lovett. No. 89,124; Nov. 12; Gaz. vol. 184; p. 546.
Insecticide. E. M. Baker. No. 89,433; Dec. 17; Gaz. vol. 185; p. 823.
Insecticide, germicide, and disinfectant. W. H. Campbell. No. 89,619; Dec. 31; Gaz. vol. 185; p. 1373.
Insecticides. J. P. McCaffery. No. 84,785; Jan. 2; Gaz. vol. 174; p. 285.
Insecticides. C. J. Martin & Sons. No. 85,152; Jan. 30; Gaz. vol. 174; p. 1214.
Insecticides. J. Simson. No. 87,566; July 23; Gaz. vol. 180; p. 1134.
Insecticides. Lancaster Insecticide Co. No. 88,500; Sept. 24; Gaz. vol. 182; p. 966.
Insecticides. M. Herrmann & Co. No. 89,110; Nov. 12; Gaz. vol. 184; p. 546.

Alphabetical list of trade-marks—Continued.

Insoles. Dry-Fut Insole Mfg. Co. No. 89,551; Dec. 24; Gaz. vol. 185; p. 1049.
Insoles for footwear. J. C. Williams. No. 88,394; Sept. 10; Gaz. vol. 182; p. 507.
Insulated electric conductors. Simplex Electrical Co. No. 87,265; July 2; Gaz. vol. 180; p. 318.
Insulated electric wires. Detroit Insulated Wire Company. No. 87,051; June 25; Gaz. vol. 179; p. 1101.
Insulated electric wires. Detroit Insulated Wire Company. No. 88,252; Sept. 10; Gaz. vol. 182; p. 504.
Insulated wire. The Simplex Electrical Co. No. 86,627; May 21; Gaz. vol. 178; p. 880.
Insulated wire. Waterbury Company. No. 88,223; Sept. 3; Gaz. vol. 182; p. 245.
Insulating compound. Massachusetts Chemical Company. No. 87,463; July 16; Gaz. vol. 180; p. 875.
Insulating material. Keystone Hair Insulator Co. Nos. 88,089–90; Aug. 27; Gaz. vol. 181; p. 1068.
Insulating-tape, Electrical. General Electric Company. No. 89,553; Dec. 24; Gaz. vol. 185; p. 1050.
Insulation, Thermal. Banner Rock Products Company. No. 85,641; Mar. 5; Gaz. vol. 176; p. 269.
Insulators, Electrical. Mica Insulator Company. No. 88,325; Sept. 10; Gaz. vol. 182; p. 506.
Iodin and iodid substitute. P. A. Astier. No. 86,974; June 18; Gaz. vol. 179; p. 847.
Iron. Mill & Mine Supply Co. No. 88,326; Sept. 10; Gaz. vol. 182; p. 506.
Iron and steel bars, &c. Monolith Steel Co. No. 85,915; Mar. 26; Gaz. vol. 176; p. 1067.
Iron and steel bars and hoops. Robert Heath & Sons. No. 85,813; Mar. 19; Gaz. vol. 176; p. 745.
Iron and steel in bars, bands, angles, &c. Lockhart Iron & Steel Co. No. 87,639; July 30; Gaz. vol. 180; p. 1388.
Iron and steel sheets, plates, bars, and rods. Robert Heath & Sons. No. 88,281; Sept. 10; Gaz. vol. 182; p. 504.
Iron compound, Liquid. Smooth-On Manufacturing Company. No. 85,191; Jan. 30; Gaz. vol. 174; p. 1215.
Iron, Corrugated sheet-. D. Meyer & C. No. 88,013; Aug. 20; Gaz. vol. 181; p. 816.
Iron punching and shearing machines. Little Giant Punch & Shear Co. No. 85,823; Mar. 19; Gaz. vol. 176; p. 746.
Iron, Wrought-. Sligo Iron & Steel Co. No. 85,716; Mar. 5; Gaz. vol. 176; p. 271.
Jack-screws, tire benders and shrinkers. Illinois Iron & Bolt Co. No. 85,252; Feb. 6; Gaz. vol. 175; p. 260.
Jar rings, Fruit-. Ogden, Merrill & Greer. No. 88,108; Aug. 27; Gaz. vol. 181; p. 1069.
Jar rings, Fruit-. The Imperial Merchandise Co. No. 89,662; Dec. 31; Gaz. vol. 185; p. 1375.
Jar-rings, Gum. Francis H. Leggett & Co. No. 85,598; Feb. 27; Gaz. vol. 175; p. 1094.
Javelle water. Cadorette Bros. & Co. No. 85,068; Jan. 30; Gaz. vol. 174; p. 1211.
Jewelry. R. B. Macdonald. No. 85,364; Feb. 13; Gaz. vol. 175; p. 538.
Jewelry. F. R. Dobrowsky. No. 86,519; May 14; Gaz. vol. 178; p. 587.
Jewelry. The Geo. L. Vose Mfg. Co. No. 86,646; May 21; Gaz. vol. 178; p. 881.
Jewelry. Allsopp & Allsopp. No. 89,427; Dec. 17; Gaz. vol. 185; p. 823.
Jewelry and precious-metal ware. William Link Company. No. 86,603; May 21; Gaz. vol. 178; p. 880.
Jewelry and precious-metal ware. William Link Company. No. 86,718; May 28; Gaz. vol. 178; p. 1148.
Jewelry and precious-metal ware, Certain. R. Blackinton. & Co. No. 87,408; July 16; Gaz. vol. 180; p. 873.
Jewelry and toilet and stationery articles, Certain. G. W. Parks Company. No. 87,795; Aug. 6; Gaz. vol. 181; p. 261.
Jewelry, Certain. Baltimore Bargain House. No. 87,592; July 30; Gaz. vol. 180; p. 1387.
Jewelry, Certain kinds of. F. D. Healy. No. 85,862; Mar. 26; Gaz. vol. 176; p. 1065.
Jewelry, Certain kinds of coral. Borrelli & Vitelli. No. 85,645; Mar. 5; Gaz. vol. 176; p. 269.
Jewelry for personal wear and certain articles of precious metal. William Link Company. No. 89,476; Dec. 17; Gaz. vol. 185; p. 824.
Jointers, shapers, planers, &c. The Crescent Machine Company. No. 85,230; Feb. 6; Gaz. vol. 175; p. 259.
Jointing material, clap-valves, hose, belting, and packing, Certain. Pahl'sche Gummi- und Asbest-Gesellschaft mit beschränkter Haftung. No. 84,872; Jan. 9; Gaz. vol. 174; p. 581.
Joints, Universal. The Kinsler-Bennett Co. No. 87,896; Aug. 13; Gaz. vol. 181; p. 536.
Journal, Weekly. Curtis Publishing Company. No. 84,728; Jan. 2; Gaz. vol. 174; p. 283.
Jumpers and work-shirts. Miller Bros. No. 89,570; Dec. 24; Gaz. vol. 185; p. 1050.
Kerchiefs and handkerchiefs. J. Robinson & Co. No. 89,062; Nov. 5; Gaz. vol. 184; p. 283.
Kerosene. Utah Oil Refining Company. Nos. 86,182–3; Apr. 16; Gaz. vol. 177; p. 767.
Kerosene. The Texas Company. Nos. 86,635–7; May 21; Gaz. vol. 178; p. 881.
Kerosene. D. Meyer & C. No. 88,012; Aug. 20; Gaz. vol. 181; p. 816.
Kerosene. The Texas Company. No. 88,713; Oct. 15; Gaz. vol. 183; p. 778.
Kerosene. The Texas Company. No. 88,715; Oct. 15; Gaz. vol. 183; p. 778.
Kerosene. The Texas Company. No. 88,806; Oct. 22; Gaz. vol. 183; p. 1029.
Key-rings. Tower Manufacturing & Novelty Co. No. 87,946; Aug. 13; Gaz. vol. 181; p. 538.
Kimonos, sacks, house-dresses, and bath-robes. Hamburger Bros. No. 87,881; Aug. 13; Gaz. vol. 181; p. 536.
Kinematograph-films. Società Anonima Milano-Films. No. 89,511; Dec. 17; Gaz. vol. 185; p. 825.
Kinematographic apparatus and photographic films bearing finished pictures. C. Urban. No. 85,889; Mar. 26; Gaz. vol. 176; p. 1066.
Kinematographic apparatus, Certain named. C. Raleigh. No. 89,061; Nov. 5; Gaz. vol. 184; p. 283.
Kinematographic films. Compagnie Generale de Phonographes, Cinematographes et Appareils de Precision. No. 87,430; July 16; Gaz. vol. 180; p. 874.
Kitchen and household utensils and foot, bath, and sitz tubs. George H. Mason Company. No. 88,010; Aug. 20; Gaz. vol. 181; p. 816.
Kitchen-ware, Aluminum. Rothschild, Meyers & Co. No. 88,594; Oct. 1; Gaz. vol. 183; p. 214.
Kitchen-ware, Enameled metal. Enterprise Enamel Co. No. 86,581; May 21; Gaz. vol. 178; p. 879.
Knit underwear. H. Loeb & Co. No. 85,975; Apr. 2; Gaz. vol. 177; p. 236.
Knitted and textile underwear. Joel Baily Davis Company. No. 89,528; Dec. 24; Gaz. vol. 185; p. 1049.
Knitted athletic garments. A. L. Behrens & Company. No. 89,322; Dec. 10; Gaz. vol. 185; p. 519.
Knitted, netted, and textile fabrics, Certain. Consolidated Cotton Duck Company. No. 86,514; May 14; Gaz. vol. 178; p. 587.
Knitted, netted, and textile fabrics, Certain. A. O. Meyer. No. 86,541; May 14; Gaz. vol. 178; p. 588.
Knitted, netted, and textile fabrics, Certain. W. Oddy. No. 87,474; July 16; Gaz. vol. 180; p. 875.
Knitted, netted, and textile fabrics, Certain. G. A. Stafford & Company. No. 87,494; July 16; Gaz. vol. 180; p. 876.
Knitted, netted, and textile fabrics, Certain named. B. H. Gladding Dry Goods Co. No. 87,750; Aug. 6; Gaz. vol. 181; p. 260.
Knitted sweaters, bathing-suits, jerseys, &c. Wertheimer Bros. No. 87,506; July 16; Gaz. vol. 180; p. 876.
Knitted undergarments. Taunton Knitting Company. No. 89,396; Dec. 10; Gaz. vol. 185; p. 521.
Knitted undershirts. Rubens & Marble. Nos. 85,008–10; Jan. 16; Gaz. vol. 174; p. 825.
Knitted underwaists, Children's. J. F. Quinn. No. 85,489; Feb. 20; Gaz. vol. 175; p. 839.
Knitted underwear. Lindeke, Warner & Sons. No. 88,762; Oct. 22; Gaz. vol. 183; p. 1028.
Knitted underwear, Cotton and woolen. Utah Knitting Co. No. 88,980; Oct. 29; Gaz. vol. 183; p. 1305.
Knitting and cloth-cutting machines, &c. Wildman Mfg. Co. No. 85,700; Mar. 5; Gaz. vol. 176; p. 270.
Knitting-machine needles. Continental Latch Needle Company. No. 89,011; Nov. 5; Gaz. vol. 184; p. 281.
Knives, Annular. Fortuna Machine Co. No. 86,798; June 4; Gaz. vol. 179; p. 282.
Knives, letter-openers, spatulas, &c. The Novelty Cutlery Company. No. 89,053; Nov. 5; Gaz. vol. 184; p. 282.
Knives, Pocket-. John Russell Cutlery Company. No. 89,503; Dec. 17; Gaz. vol. 185; p. 825.
Knives, Pruning-. F. W. Trounce. No. 89,717; Dec. 31; Gaz. vol. 185; p. 1376.
Knives, steels, cleavers, pig-scrapers, &c. E. F. Ridgway. No. 87,657; July 30; Gaz. vol. 180; p. 1389.
Knives, Table-. Berndorf Metal Works Arthur Krupp. Nos. 86,874–5; June 11; Gaz. vol. 179; p. 567.
Knives, weapons, shears, razors, scissors, and forks, Certain named. E. M. Dickinson Ltd. No. 88,617; Oct. 8; Gaz. vol. 183; p. 499.
Labeling-machines and parts thereof. Economic Machinery Company. No. 89,019; Nov. 5; Gaz. vol. 184; p. 281.
Labels. B. H. De Huy. No. 85,950; Apr. 2; Gaz. vol. 177; p. 235.
Labels, Cigar-box. C. B. Henschel Mfg. Co. No. 87,338; July 9; Gaz. vol. 180; p. 598.
Lace curtains. Quaker Lace Company. No. 87,801; Aug. 6; Gaz. vol. 181; p. 262.
Lace piece goods. Quaker Lace Company. No. 87,800; Aug. 6; Gaz. vol. 181; p. 262.
Lace, veilings, nets, and net piece goods. S. Oppenheimer & Levy. No. 85,372; Feb. 13; Gaz. vol. 175; p. 538.
Laces, Cotton, silk, linen, and mercerized. Richmond Lace Works. No. 86,454; May 7; Gaz. vol. 178; p. 316.
Lacing-tips. Glencairn Manufacturing Company. No. 85,577; Feb. 27; Gaz. vol. 175; p. 1094.
Lacings, Shoe and corset. Joslin Mfg. Co. No. 87,770; Aug. 6; Gaz. vol. 181; p. 261.
Lamp-burners. Scovill Manufacturing Company. No. 88,121; Aug. 27; Gaz. vol. 181; p. 1069.

Alphabetical list of trade-marks—Continued.

Lamp-lighting apparatus, Gas-. H. B. J. Joachim. No. 86,537; May 14; Gaz. vol. 178; p. 588.
Lamps and burners, Alcohol-. Grüder, Blank & Co. G. m. b. H. No. 87,756; Aug. 6; Gaz. vol. 181; p. 260.
Lamps and lanterns and burners for same, heaters, &c. Hugo Schneider Aktiengesellschaft. No. 89,206; Nov. 19; Gaz. vol. 184; p. 800.
Lamps and parts thereof, Incandescent gas-. Welsbach Company. No. 86,564; May 14; Gaz. vol. 178; p. 588.
Lamps, Bicycle, motor-cycle, automobile, and carriage. The Hawthorne Manufacturing Company. No. 89,255; Dec. 3; Gaz. vol. 185; p. 244.
Lamps, Casings for. Packard Motor Car Company. No. 86,153; Apr. 16; Gaz. vol. 177; p. 766.
Lamps, Electric. The Empire Brass Manufacturing Co. No. 87,987; Aug. 20; Gaz. vol. 181; p. 815.
Lamps, Electric. General Electric Company. No. 88,076; Aug. 27; Gaz. vol. 181; p. 1068.
Lamps, Electric. Beautility Art Company. No. 88,995; Nov. 5; Gaz. vol. 184; p. 281.
Lamps, Electric. General Electric Company. No. 89,645; Dec. 31; Gaz. vol. 185; p. 1374.
Lamps, gas generators and burners, Oil and gas. Rose Manufacturing Co. No. 86,552; May 14; Gaz. vol. 178; p. 588.
Lamps, Incandescent electric. American Z Electric Lamp Co. No. 89,080; Nov. 12; Gaz. vol. 184; p. 545.
Lamps, Incandescent gas-. Lindsay Light Company. No. 89,475; Dec. 17; Gaz. vol. 185; p. 824.
Lamps, lamp-supports, shade-holders, &c., Electric. The Adams-Bagnall Electric Co. No. 89,525; Dec. 24; Gaz. vol. 185; p. 1049.
Lamps, motors, switchboards, &c., Electric. W. H. Ochiltree. No. 88,197; Sept. 3; Gaz. vol. 182; p. 244.
Lamps, Portable gas-. Scranton Acetylene Lamp Company. No. 85,772; Mar. 12; Gaz. vol. 176; p. 522.
Lard. The Cleveland Provision Co. No. 88,399; Sept. 17; Gaz. vol. 182; p. 717.
Lard. T. M. Sinclair & Co. No. 89,586; Dec. 24; Gaz. vol. 185; p. 1050.
Lard, beef-fat, and cotton-seed oil, Compound of. Armstrong Packing Company. No. 87,404; July 16; Gaz. vol. 180; p. 873.
Lard, Imitation. Galban & Co. No. 84,826; Jan. 9; Gaz. vol. 174; p. 580.
Lard, Pure. Armstrong Refining Company. No. 85,406; Feb. 20; Gaz. vol. 175; p. 837.
Lath, Expanded-metal. Northwestern Expanded Metal Co. No. 85,370; Feb. 13; Gaz. vol. 175; p. 538.
Laundry tablets. J. F. Kane. No. 89,376; Dec. 10; Gaz. vol. 185; p. 520.
Laxative preparation, Compound. Citrolax Co. No. 87,042; June 25; Gaz. vol. 179; p. 1101.
Laxative preparations. The Upjohn Company. No. 85,625; Feb. 27; Gaz. vol. 175; p. 1095.
Laxative preparations. The Alpine Pharmacal Co. No. 88,609; Oct. 8; Gaz. vol. 183; p. 499.
Laxative, Tonic. G. A. Colvin. No. 88,062; Aug. 27; Gaz. vol. 181; p. 1067.
Laxatives. Kolberger Anstalten für Exterikultur Willh. Anhalt G. m. b. H. No. 86,601; May 21; Gaz. vol. 178; p. 880.
Lead. International Lead Refining Company. Nos. 89,559–61; Dec. 24; Gaz. vol. 185; p. 1050.
Lead, orange mineral, and oxid of zinc. Bergmann & Simons, G. m. b. H. No. 89,087; Nov. 12; Gaz. vol. 184; p. 545.
Lead, White. C. A. Childs. No. 86,383; May 7; Gaz. vol. 178; p. 314.
Leather. A. F. Gallun & Sons. No. 85,104; Jan. 30; Gaz. vol. 174; p. 1212.
Leather. Superior Tanning Company. No. 87,819; Aug. 6; Gaz. vol. 181; p. 262.
Leather. J. T. Smith. No. 87,939; Aug. 13; Gaz. vol. 181; p. 538.
Leather blackings and dressings. F. Matt & Co. No. 86,860; June 4; Gaz. vol. 179; p. 283.
Leather-burnish. International Color & Mfg. Co. No. 89,468; Dec. 17; Gaz. vol. 185; p. 824.
Leather enamel and polishes. Mullen Brothers. No. 88,510; Sept. 24; Gaz. vol. 182; p. 967.
Leather, Finished. A. C. Lawrence Leather Co. No. 85,911; Mar. 26; Gaz. vol. 176; p. 1067.
Leather, Harness, saddle, and sole. Eagle Tannery. No. 85,734; Mar. 12; Gaz. vol. 176; p. 521.
Leather in the piece. Oneida Leather Co. No. 87,249; July 2; Gaz. vol. 180; p. 318.
Leather in the piece. Albert Trostel & Sons Company. No. 88,431; Sept. 17; Gaz. vol. 182; p. 718.
Leather in the piece. Albert Trostel & Sons Company. Nos. 88,601–2; Oct. 1; Gaz. vol. 183; p. 214.
Leather, Kid-. New Castle Leather Co. No. 86,439; May 7; Gaz. vol. 178; p. 315.
Leather preservatives, finishing and tanning agents, &c. Badische Anilin- & Soda-Fabrik. No. 89,611; Dec. 31; Gaz. vol. 185; p. 1373.
Leather preserving and waterproofing composition. Standard Oil Leather Dressing Co. Nos. 85,511–12; Feb. 20; Gaz. vol. 175; p. 840.
Leather, Sole and belting. Leas & McVitty. No. 86,066; Apr. 9; Gaz. vol. 177; p. 520.
Leathers, hides, and pelts, Composition for the treatment of. D. O'Keefe. No. 85,165; Jan. 30; Gaz. vol. 174; p. 1214.
Leathers, Side-. S. B. Foot & Co. No. 89,640; Dec. 31; Gaz. vol. 185; p. 1374.
Leggings and sandals. The Hagerstown Legging Company. No. 86,801; June 4; Gaz. vol. 179; p. 282.
Lemonade preparation. Los Angeles Pure Fruit Co. No. 86,720; May 28; Gaz. vol. 178; p. 1148.
Lemons. California Fruit Growers Exchange. No. 85,069; Jan. 30; Gaz. vol. 174; p. 1211.
Lens examining and testing instruments. American Optical Company. No. 86,567; May 21; Gaz. vol. 178; p. 879.
Lenses, Machines for manufacturing, finishing, &c. The Standard Optical Company. No. 85,885; Mar. 26; Gaz. vol. 176; p. 1066.
Lenses, Optical. Haussmann & Co. No. 88,626; Oct. 8; Gaz. vol. 183; p. 499.
Letters for signs. R. J. Craker. No. 85,328; Feb. 13; Gaz. vol. 175; p. 537.
Levels, Spirit-. Goodell-Pratt Company. No. 89,249; Dec. 3; Gaz. vol. 185; p. 244.
Licorice, licorice chewing-gum and wafers, Stick-. National Licorice Company. No. 88,935; Oct. 29; Gaz. vol. 183; p. 1304.
Lifting-jacks. McKiernan-Terry Drill Company. No. 88,632; Oct. 8; Gaz. vol. 183; p. 499.
Lighting or flame-producing devices. The McLaughlin Sales Co. No. 89,568; Dec. 24; Gaz. vol. 185; p. 1050.
Lightning-rods and fixtures for same. Joseph Barnett & Company. No. 88,610; Oct. 8; Gaz. vol. 183; p. 499.
Limbs, Artificial. E. H. Rowley. No. 87,107; June 25; Gaz. vol. 179; p. 1103.
Lime. A. C. Horn Company. No. 86,803; June 4; Gaz. vol. 179; p. 282.
Lime and building-plaster compositions. The Atlas Portland Cement Company. No. 85,938; Apr. 2; Gaz. vol. 177; p. 235.
Lime and cement. Tidewater Portland Cement Company. No. 86,562; May 14; Gaz. vol. 178; p. 588.
Limes. The Arthur Courtin Company. No. 86,679; May 21; Gaz. vol. 178; p. 882.
Limonenes. A. Deppe Söhne. No. 87,050; June 25; Gaz. vol. 179; p. 1101.
Linen, cotton, woolen, and silk piece goods. D. W. C. Ellis & Co. Nos. 86,703–4; May 28; Gaz. vol. 178; p. 1147.
Linen and hemp piece goods. The Gourock Ropework Co. No. 84,957; Jan. 16; Gaz. vol. 174; p. 824.
Linen piece goods. Stevenson & Son. No. 87,122; June 25; Gaz. vol. 179; p. 1103.
Liniment. E. C. Kibiger. No. 84,910; Jan. 9; Gaz. vol. 174; p. 582.
Liniment. Anglo-American Pharmaceutical Company. No. 84,926; Jan. 16; Gaz. vol. 174; p. 823.
Liniment. L. J. Fennyery. No. 85,854; Mar. 26; Gaz. vol. 176; p. 1065.
Liniment. W. F. Bailey. No. 86,121; Apr. 16; Gaz. vol. 177; p. 765.
Liniment. B. C. Hall. No. 86,219; Apr. 23; Gaz. vol. 177; p. 1039.
Liniment. J. J. Convey. No. 86,387; May 7; Gaz. vol. 178; p. 314.
Liniment. Boynton Ideal Liniment Co. No. 87,315; July 9; Gaz. vol. 180; p. 597.
Liniment. J. S. Millerick. No. 88,014; Aug. 20; Gaz. vol. 181; p. 816.
Liniment. N. Vragassy. No. 88,037; Aug. 20; Gaz. vol. 181; p. 817.
Liniment. P. Piplick. No. 89,141; Nov. 12; Gaz. vol. 184; p. 546.
Liniment and a remedy for certain named diseases. C. D. Warner Co. No. 89,169; Nov. 12; Gaz. vol. 184; p. 547.
Liniments. A. E. Mercer. No. 85,365; Feb. 13; Gaz. vol. 175; p. 538.
Liniments. Lanman & Kemp. No. 86,498; May 7; Gaz. vol. 178; p. 317.
Liniments. G. O. Wellman, Jr. No. 87,023; June 18; Gaz. vol. 179; p. 848.
Linings and padding for certain purposes. D. F. Fowler. No. 85,340; Feb. 13; Gaz. vol. 175; p. 538.
Linoleum, Brass binding for. R. Hubbell. No. 84,743; Jan. 2; Gaz. vol. 174; p. 284.
Liqueur. R. Vlahov. Nos. 86,644–5; May 21; Gaz. vol. 178; p. 881.
Liqueur. R. Vlahov. No. 88,141; Aug. 27; Gaz. vol. 181; p. 1070.
Liqueur, Aperitive. J. M. Lafon. No. 87,636; July 30; Gaz. vol. 180; p. 1388.
Liqueurs. Gautier Frères. No. 85,654; Mar. 5; Gaz. vol. 176; p. 269.
Liquid mixing and heating machines, Electric. Fulton-Bell Company. No. 85,857; Mar. 26; Gaz. vol. 176; p. 1065.
Liquors made with cherries. Rocher Fréres. No. 87,369; July 9; Gaz. vol. 180; p. 599.
Liquors, Mixed spirituous. Geo. W. Torrey Co. No. 88,807; Oct. 22; Gaz. vol. 183; p. 1029.

Alphabetical list of trade-marks—Continued.

Lithographing-stones. L. Bechtold. No. 89,086; Nov. 12; Gaz. vol. 184; p. 545.
Lock and latch. Von Duprin Fire Exit Latch Company. No. 85,021; Jan. 16; Gaz. vol. 174; p. 825.
Locks, latches, &c. Lancaster Foundry Company. No. 87,638; July 30; Gaz. vol. 180; p. 1388.
Locks, latches, and window-catches. Lancaster Foundry Company. No. 87,223; July 2; Gaz. vol. 180; p. 317.
Logging-blocks. Columbia Engineering Works. No. 87,167; July 2; Gaz. vol. 180; p. 316.
Lotion, Face-. M. Higgins. No. 88,490; Sept. 24; Gaz. vol. 182; p. 966.
Lotion for skin diseases. F. Brackett. No. 86,375; May 7; Gaz. vol. 178; p. 313.
Lotion, Perfumed. A. J. Krank. No. 85,596; Feb. 27; Gaz. vol. 175; p. 1094.
Lotion, Skin-. The Union News Company. No. 86,486; May 7; Gaz vol. 178; p. 317.
Lotions for chapped hands or lips, &c. Central Drug Co. No. 88,614; Oct. 8; Gaz. vol. 183; p. 499.
Louse-exterminator. J. C. Dinsmore Co. No. 85,089 Jan. 30; Gaz. vol. 174; p. 1212.
Lozenges, Cough-. Brewer & Co. No. 88,054; Aug. 27; Gaz. vol. 181; p. 1067.
Lubricant. The Hydroil Company. No. 88,754; Oct. 22; Gaz. vol. 183; p. 1028.
Lubricating apparatus. S. M. Jenkins. No. 89,269; Dec. 3; Gaz. vol. 185; p. 244.
Lubricating compound. Joseph Dixon Crucible Company. No. 85,799; Mar. 19; Gaz. vol. 176; p. 745.
Lumber and logs. Green River Lumber Company. Nos. 87,753–4; Aug. 6; Gaz. vol. 181; p. 260.
Lumber, Pine and hardwood. P. I. Adam. No. 89,083; Nov. 12; Gaz. vol. 184; p. 545.
Lye. E. Myers Lye Co. No. 86,148; Apr. 16; Gaz. vol. 177; p. 766.
Lyes of the sulfite-cellulose manufacture. International Paper Co. No. 87,768; Aug. 6; Gaz. vol. 181; p. 261.
Macaroni. The Atlantic Macaroni Co. No. 86,370; May 7; Gaz. vol. 178; p. 313.
Macaroni. Crescent Macaroni and Cracker Co. No. 86,885; June 11; Gaz. vol. 179; p. 567.
Macaroni. A. Ricchezza. No. 87,256; July 2; Gaz. vol. 180; p. 318.
Macaroni. Trinacria Macaroni Works. No. 87,949; Aug. 13; Gaz. vol. 181; p. 538.
Macaroni. Skinner Mfg. Co. No. 88,527; Sept. 24; Gaz. vol. 182; p. 967.
Macaroni. The Savarese Macaroni Co. No. 88,960; Oct. 29; Gaz. vol. 183; p. 1305.
Macaroni. The Atlantic Macaroni Co. No. 89,081; Nov. 12; Gaz. vol. 184; p. 545.
Macaroni, &c. Guano & Raggio. No. 89,026; Nov. 5; Gaz. vol. 184; p. 282.
Macaroni food preparations. San Antonio Macaroni Factory. No. 87,661; July 30; Gaz. vol. 180; p. 1389.
Macaroni, Imported. Francis H. Leggett & Co. No. 85,149; Jan. 30; Gaz. vol. 174; p. 1214.
Macaroni-paste. Birmingham Macaroni Company. No. 85,899; Mar. 26; Gaz. vol. 176; p. 1066.
Macaroni, spaghetti, vermicelli, and noodles. The Denver Macaroni & Noodle Co. No. 88,250; Sept. 10; Gaz. vol. 182; p. 503.
Macaroni, vermicelli, and spaghetti. San Antonio Macaroni Factory. No. 88,958; Oct. 29; Gaz. vol. 183; p. 1304.
Macaronic paste foods. The Cleveland Macaroni Company. No. 86,281; Apr. 30; Gaz. vol. 177; p. 1291.
Machine-tools. Wiener Machinery Co. No. 86,014; Apr. 2; Gaz. vol. 177; p. 237.
Machine-tools, Certain named. The Lapointe Machine Tool Co. No. 88,312; Sept. 10; Gaz. vol. 182; p. 505.
Machines and implements and windmills, Certain named. Deere & Company. Nos. 88,248–9; Sept. 10; Gaz. vol. 182; p. 503.
Machines and parts thereof, Certain named. A. Saurer. No. 87,662; July 30; Gaz. vol. 180; p. 1389.
Machines, Certain kinds of. Frederick Osann Company. No. 85,830; Mar. 19; Gaz. vol. 176; p. 746.
Machines, Certain named. Crescent Machine Co. No. 87,607; July 30; Gaz. vol. 180; p. 1387.
Machines, Certain named. United Shoe Machinery Company. No. 88,432; Sept. 17; Gaz. vol. 182; p. 718.
Machines, Certain named. The American Well Works No. 89,323; Dec. 10; Gaz. vol. 185; p. 519.
Machinery and tools and parts thereof, Certain. C. M. McClung & Co. No. 87,646; July 30; Gaz. vol. 180; p. 1389.
Machinery and tools, Certain. The L. S. Starrett Co. No. 85,923; Mar. 26; Gaz. vol. 176; p. 1067.
Machinery and tools, Certain named. Keystone Driller Company. No. 88,893; Oct. 29; Gaz. vol. 183; p. 1303.
Machinery, Certain kinds of. Williams Patent Crusher & Pulverizer Company. No. 85,932; Mar. 26; Gaz. vol. 176; p. 1067.
Machinery, Certain kinds of. Crossley & Davenport. No. 86,698; May 28; Gaz. vol. 178; p. 1147.
Machinery, Certain kinds of. B. F. Sturtevant Company. No. 86,744; May 28; Gaz. vol. 178; p. 1149.
Magazine. Oppenheimer & Trebitsch Company. No. 86,546; May 14; Gaz. vol. 178; p. 588.
Magazine. Novelty News Co. No. 87,247; July 2; Gaz. vol. 180; p. 318.
Magazine. Suburban Press. No. 87,281; July 2; Gaz. vol. 180; p. 319.
Magazine. A. L. Sommers. No. 87,674; July 30; Gaz. vol. 180; p. 1389.
Magazine. L. D. Hall. No. 88,675; Oct. 15; Gaz. vol. 183; p. 777.
Magazine, Monthly. W. Quackenbush. No. 84,875; Jan. 9; Gaz. vol. 174; p. 581.
Magazine, Monthly. P. Waxman. No. 84,891; Jan. 9; Gaz. vol. 174; p. 581.
Magazine, Monthly. The Grand Bay Land Company. No. 84,905; Jan. 9; Gaz. vol. 174; p. 582.
Magazine, Monthly. Entertainment Publishing Co. No. 85,569; Feb. 27; Gaz. vol. 175; p. 1094.
Magazine, Monthly. Ware Bros. Company. No. 86,190; Apr. 16; Gaz. vol. 177; p. 767.
Magazine, Monthly. McBride, Nast & Co. No. 86,666; May 21; Gaz. vol. 178; p. 882.
Magazine, Monthly. Electricity Magazine Corporation. No. 87,182; July 2; Gaz. vol. 180; p. 316.
Magazine, Monthly. Corn Publishing Company. No. 87,431; July 16; Gaz. vol. 180; p. 874.
Magazine, Monthly. New Idea Publishing Co. No. 87,473; July 16; Gaz. vol. 180; p. 875.
Magazine, Monthly. G. A. Ferris. No. 88,669; Oct. 15; Gaz. vol. 183; p. 777.
Magazine, Quarterly. Commercial Travelers' Club. No. 85,415; Feb. 20; Gaz. vol. 175; p. 837.
Magazine, Semimonthly. The Vogue Company. No. 84,770; Jan. 2; Gaz. vol. 174; p. 284.
Magazine, Semimonthly. Motor Boat Publishing Co. No. 85,471; Feb. 20; Gaz. vol. 175; p. 839.
Magazine, Semimonthly. Technical Publishing Company. No. 87,378; July 9; Gaz. vol. 180; p. 599.
Magazines. Fur News Publishing Company. No. 87,200; July 2; Gaz. vol. 180; p. 317.
Magazines. G. B. Gaiennié. No. 87,201; July 2; Gaz. vol. 180; p. 317.
Magazines. Farm & Stock Publishing Company. No. 87,531; July 23; Gaz. vol. 180; p. 1133.
Magazines. C. H. Packard. No. 88,941; Oct. 29; Gaz. vol. 183; p. 1304.
Magazines. The American Architect. No. 89,428; Dec. 17; Gaz. vol. 185; p. 823.
Magazines, Monthly. The Commercial Vehicle, Inc. No. 88,850; Oct. 29; Gaz. vol. 183; p. 1301.
Magazines, Weekly. New Century Corporation. No. 88,513; Sept. 24; Gaz. vol. 182; p. 967.
Magnesia. The Washington Chemical Co. No. 86,844; June 4; Gaz. vol. 179; p. 283.
Magnesite. Internationale Magnesiet Werken. No. 89,370; Dec. 10; Gaz. vol. 185; p. 520.
Magnetic chucks. D & W Fuse Co. No. 87,433; July 16; Gaz. vol. 180; p. 874.
Magnets for technical purposes. Tigges & Co. No. 85,295; Feb. 6; Gaz. vol. 175; p. 261.
Malt preparation. Birk Bros. Brewing Co. No. 86,777; June 4; Gaz. vol. 179; p. 281.
Manicure sets. J. C. Dowd & Co. No. 89,633; Dec. 31; Gaz. vol. 185; p. 1374.
Mantle-burners and mantles and mica chimneys, Kerosene and alcohol. The Mantle Lamp Company of America. No. 88,507; Sept. 24; Gaz. vol. 182; p. 967.
Mantles. Welsbach Company. No. 85,050; Jan. 23; Gaz. vol. 174; p. 1023.
Marble, Quarried and prepared. Royal Marble Co. No. 88,425; Sept. 17; Gaz. vol. 182; p. 717.
Massage apparatus and vibrators. Birrell Vacuum Vibrator Company. No. 89,219; Dec. 3; Gaz. vol. 185; p. 243.
Massaging appliance, Electrical. E. Thompson. No. 86,477; May 7; Gaz. vol. 178; p. 316.
Massicot, litharge, lead, and type-metal. Cookson and Company. No. 88,245; Sept. 10; Gaz. vol. 182; p. 503.
Masts, Extensible. Fontana-Maste und- Träger-Gesellschaft m. b. H. No. 87,194; July 2; Gaz. vol. 180; p. 316.
Matches. "Solo" Bündwaren- und Wichse-Fabriken Act. Ges. No. 85,775; Mar. 12; Gaz. vol. 176; p. 522.
Matches. Haldens Tændstikfabrik. No. 86,218; Apr. 23; Gaz. vol. 177; p. 1039.
Matches. Aktiebolaget Södertelje Tändsticksfabrik. No. 87,138; July 2; Gaz. vol. 180; p. 315.
Matches. Jönköpings och Vulcans Tändsticksfabriksaktiebolag. Nos. 87,216–17; July 2; Gaz. vol. 180; p. 317.
Matches. "Solo" Zündwaren- und Wichse-Fabriken Act. Ges. No. 87,268; July 2; Gaz. vol. 180; p. 318.
Matches. Sommers Bros. Match Co. Nos. 87,269–70; July 2; Gaz. vol. 180; p. 319.
Matches. The Ohio Match Company. No. 87,915; Aug. 13; Gaz. vol. 181; p. 537.
Matches. Haldens Taendstikfabrik. No. 88,486; Sept. 24; Gaz. vol. 182; p. 966.
Matches. Jönköpings och Vulcans Tändsticksfabriksaktiebolag. Nos. 88,497–8; Sept. 24; Gaz. vol. 182; p. 966.
Matches. Grantorpets Tändsticksfabriks Aktiebolag. No. 88,746; Oct. 22; Gaz. vol. 183; p. 1027.
Matches. Jönköpings och Vulcans Tändsticksfabriksaktiebolag. No. 89,373; Dec. 10; Gaz. vol. 185; p. 520.

Alphabetical list of trade-marks—Continued.

Matches, Zarnits Bros. Grocery Co. No. 89,405; Dec. 10; Gaz. vol. 185; p. 521.
Matches, Safety-. The Ohio Match Company. No. 85,164; Jan. 30; Gaz. vol. 174; p. 1214.
Mattresses. Rose Spring Bed Company. No. 84,753; Jan. 2; Gaz. vol. 174; p. 284.
Mattresses. Stockwell-Haley Co. No. 84,765; Jan. 2; Gaz. vol. 174; p. 284.
Mattresses. S. G. Krupka. No. 85,752; Mar. 12; Gaz. vol. 176; p. 522.
Mattresses. The Sanitary Bedding Co. No. 86,832; June 4; Gaz. vol. 179; p. 283.
Mattresses. New York Mattress Co. No. 88,345; Sept. 10; Gaz. vol. 182; p. 506.
Mattresses. Athens Mattress and Spring Bed Co. No. 88,448; Sept. 24; Gaz. vol. 182; p. 965.
Mattresses. U. S. Bedding Company. No. 89,330; Dec. 10; Gaz. vol. 185; p. 519.
Mattresses, &c. A. J. Logan Company. No. 89,478; Dec. 17; Gaz. vol. 185; p. 824.
Mattresses and feather pillows. G. W. Sammet & Son Co. No. 86,461; May 7; Gaz. vol. 178; p. 316.
Mattresses and spring-beds. The M. A. Hunt Company. No. 84,745; Jan. 2; Gaz. vol. 174; p. 284.
Mattresses, bed box-springs, and pillows. Dixie Cotton Felt Mattress Company. No. 85,420; Feb. 20; Gaz. vol. 175; p. 837.
Mattresses, bed-springs, beds, and pillows. J. H. Harvey. No. 87,448; July 16; Gaz. vol. 180; p. 874.
Mattresses, bed-springs, cots, and feather pillows. Nashville Spring and Mattress Co. No. 86,821; June 4; Gaz. vol. 179; p. 282.
Mattresses, couch-beds, divans, &c., Spring-. Englander Spring Bed Company. No. 86,134; Apr. 16; Gaz. vol. 177; p. 765.
Mattresses, cushions, pillows, and bedsteads. G. W. Bent Co. No. 85,940; Apr. 2; Gaz. vol. 177; p. 235.
Matzos. B. Manischewitz. No. 85,666; Mar. 5; Gaz. vol. 176; p. 269.
Matzoths. A. Goodman & Son. No. 87,065; June 25; Gaz. vol. 179; p. 1102.
Meal, coffee substitute, and breakfast food. Seven Grain Food Company of San Diego. No. 87,264; July 2; Gaz. vol. 180; p. 318.
Measuring and dispensing machines, Liquid. The Tokheim Manufacturing Company. No. 86,639; May 21; Gaz. vol. 178; p. 881.
Measuring and draftsmen's instruments, Certain. Tower Manufacturing & Novelty Co. No. 88,221; Sept. 3; Gaz. vol. 182; p. 245.
Measuring and scientific appliances, Certain. United States Gauge Co. No. 86,747; May 28; Gaz. vol. 178; p. 1149.
Measuring and scientific appliances, Certain. Ica Actien-Gesellschaft. No. 87,075; June 25; Gaz. vol. 179; p. 1102.
Measuring and scientific appliances, Certain. C. L. Berger & Sons. No. 88,053; Aug. 27; Gaz. vol. 181; p. 1067.
Measuring and scientific appliances, Certain. L. S. Starrett Co. No. 88,215; Sept. 3; Gaz. vol. 182; p. 245.
Measuring and scientific appliances, Certain named. Wm. Enders Manufacturing Company. No. 89,240; Dec. 3; Gaz. vol. 185; p. 243.
Measuring and scientific appliances, Certain named. American Optical Company. No. 89,430; Dec. 17; Gaz. vol. 185; p. 823.
Measuring charts, Foot-. S. Mayer. No. 88,011; Aug. 20; Gaz. vol. 181; p. 816.
Measuring instruments and indicators, Certain. Henry Disston & Sons. No. 89,630; Dec. 31; Gaz. vol. 185; p. 1374.
Measuring-tapes. Keuffel & Esser Company. No. 88,001; Aug. 20; Gaz. vol. 181; p. 816.
Meat, Artificially-digested. Farbwerke vorm. Meister Lucius & Brüning. No. 88,403; Sept. 17; Gaz. vol. 182; p. 717.
Meat juice, Preparation having a basis of horse-. S. Bernheim. No. 84,930; Jan. 16; Gaz. vol. 174; p. 823.
Meat, Pork. Taylor Provision Co. No. 87,944; Aug. 13; Gaz. vol. 181; p. 538.
Meat-slicing machines and meat-slicers. U. S. Slicing Machine Company. No. 89,708; Dec. 31; Gaz. vol. 185; p. 1376.
Meats, summer-sausage, lard, &c., Smoked. Natchez Packing Company. No. 87,241; July 2; Gaz. vol. 180; p. 318.
Medical and surgical appliances, Certain named. Lanman & Kemp. No. 88,501; Sept. 24; Gaz. vol. 182; p. 966.
Medical appliances, Certain. Neel-Armstrong Company. No. 86,438; May 7; Gaz. vol. 178; p. 315.
Medical compound. Robinson & Davis. No. 86,457; May 7; Gaz. vol. 178; p. 316.
Medical preparation for blood diseases. L. Haefner. No. 85,112; Jan. 30; Gaz. vol. 174; p. 1212.
Medical preparation for overperspiring and sore feet. Mack's Medical Co. No. 86,811; June 4; Gaz. vol. 179; p. 282.
Medicament for epilepsy. C. A. Wolf. No. 87,299; July 2; Gaz. vol. 180; p. 319.
Medicaments. The Berlin Chemical Company. No. 85,318; Feb. 13; Gaz. vol. 175; p. 537.
Medicaments, Cardiac. J. Bürger. No. 84,933; Jan. 16; Gaz. vol. 174; p. 823.
Medicaments for the skin. W. T. James. No. 84,969; Jan. 16; Gaz. vol. 174; p. 824.
Medicated candies. L. L. Finch. No. 85,099; Jan. 30; Gaz. vol. 174; p. 1212.
Medicated condition-powders, Roup and poultry. Hildebrand & Keller. No. 88,677; Oct. 15; Gaz. vol. 183; p. 777.
Medicated plasters. F. J. Thomas. No. 86,476; May 7; Gaz. vol. 178; p. 316.
Medicated-salt blocks for stock. J. C. Bourland. No. 89,220; Dec. 3; Gaz. vol. 185; p. 243.
Medicated sleeping-glove. Juliet Co. No. 89,186; Nov. 19; Gaz. vol. 184; p. 799.
Medicated voice-lozenges. F. A. Rogers. No. 89,420; Dec. 10; Gaz. vol. 185; p. 522.
Medicated wine. "Celrox" Ltd. No. 85,795; Mar. 19; Gaz. vol. 176; p. 745.
Medicinal cold-cream, Prepared. N. Wolfe. No. 85,632; Feb. 27; Gaz. vol. 175; p. 1095.
Medicinal pills. Clayton Chemical Co. No. 89,095; Nov. 12; Gaz. vol. 184; p. 545.
Medicinal plasters. Holland Medicine Company. No. 85,815; Mar. 19; Gaz. vol. 176; p. 745.
Medicinal plasters. Johnson & Johnson. No. 89,118; Nov. 12; Gaz. vol. 184; p. 546.
Medicinal plasters. Seabury & Johnson. No. 89,507; Dec. 17; Gaz. vol. 185; p. 825.
Medicinal preparation. The Manine Medicine Company. No. 84,784; Jan. 2; Gaz. vol. 174; p. 285.
Medicinal preparation. The Bluffton Chemical Company. No. 85,064; Jan. 30; Gaz. vol. 174; p. 1211.
Medicinal preparation. Fairchild Bros. & Foster. No. 85,096; Jan. 30; Gaz. vol. 174; p. 1212.
Medicinal preparation. W. D. Jones. No. 85,135; Jan. 30; Gaz. vol. 174; p. 1213.
Medicinal preparation. W. B. Potter. No. 85,176; Jan. 30; Gaz. vol. 174; p. 1214.
Medicinal preparation. The Hoffmann-La Roche Chemical Works. No. 87,996; Aug. 20; Gaz. vol. 181; p. 816.
Medicinal preparation. John Wyeth & Brother. No. 89,727; Dec. 31; Gaz. vol. 185; p. 1377.
Medicinal preparation containing salts. A. Saxlehner. No. 85,181; Jan. 30; Gaz. vol. 174; p. 1214.
Medicinal preparation for chapped skin, sunburn, and hangnails. J. T. Morton. No. 86,819; June 4; Gaz. vol. 179; p. 282.
Medicinal preparation for stomach trouble. A. Burdwise. No. 86,379; May 7; Gaz. vol. 178; p. 313.
Medicinal preparation in the treatment of malaria. W. H. Beers. No. 89,614; Dec. 31; Gaz. vol. 185; p. 1373.
Medicinal preparations. Scott & Gilbert Co. No. 85,184; Jan. 30; Gaz. vol. 174; p. 1215.
Medicinal preparations, Certain. V. A. Pitturo. No. 85,879; Mar. 26; Gaz. vol. 176; p. 1066.
Medicinal preparations, Certain. C. F. Simmons Medicine Company. No. 86,465; May 7; Gaz. vol. 178; p. 316.
Medicinal preparations, Certain. H. Trommsdorff. No. 86,484; May 7; Gaz. vol. 178; p. 317.
Medicinal salve. U-Va-Jee Manufacturing Co. No. 86,841; June 4; Gaz. vol. 179; p. 283.
Medicinal soaps. J. J. W. Kilbride. No. 88,576; Oct. 1; Gaz. vol. 183; p. 214.
Medicinal syrup. A. D. Monica. No. 86,818; June 4; Gaz. vol. 179; p. 282.
Medicinal tablets. D. B. Street. No. 84,920; Jan. 9; Gaz. vol. 174; p. 582.
Medicinal tablets. H. C. Cleveland. No. 86,787; June 4; Gaz. vol. 179; p. 281.
Medicinal tablets. The American "Radio-Thor 'X'" Company. No. 89,600; Dec. 31; Gaz. vol. 185; p. 1373.
Medicinal tea. H. Allendorff. No. 85,052; Jan. 30; Gaz. vol. 174; p. 1211.
Medicinal tonic. A. Koubek. No. 85,821; Mar. 19; Gaz. vol. 176; p. 746.
Medicinal tonic. The Vitalis Co. No. 88,537; Sept. 24; Gaz. vol. 182; p. 967.
Medicinal tonic. W. H. James. No. 88,681; Oct. 15; Gaz. vol. 183; p. 778.
Medicinal tonics. Analgesol Chemical Company. No. 86,772; June 4; Gaz. vol. 179; p. 281.
Medicinal tonics. G. E. Latour. No. 87,083; June 25; Gaz. vol. 179; p. 1102.
Medicinal tonics, pills, and ointments. C. H. F. Richter. No. 87,008; June 18; Gaz vol. 179; p. 848.
Medicine. A. G. Stollenwerck. No. 88,710; Oct. 15; Gaz. vol. 183; p. 778.
Medicine and pharmaceutical preparations, Certain. Henry K. Wampole and Company. No. 87,022; June 18; Gaz. vol. 179; p. 848.
Medicine and pharmaceutical preparations, Certain. E. H. Wagner. No. 87,130; June 25; Gaz. vol. 179; p. 1104.
Medicine, Certain. R. H. Gerke. No. 84,956; Jan. 16; Gaz. vol. 174; p. 824.
Medicine, Certain. John Wyeth & Brother. No. 86,115; Apr. 9; Gaz. vol. 177; p. 521.
Medicine for all abrasions of the skin. Samery & Wantz. No. 84,917; Jan. 9; Gaz. vol. 174; p. 582.

Alphabetical list of trade-marks—Continued.

Medicine for certain ailments. E. C. McRae. No. 86,998; June 18; Gaz. vol. 179; p. 847.
Medicine for certain children's diseases. The Babene Manufacturing Company. No. 86,023; Apr. 9; Gaz. vol. 177; p. 519.
Medicine for certain diseases. B. C. Mathes. Nos. 85,602–3; Feb. 27; Gaz. vol. 175; p. 1094.
Medicine for certain diseases. B. H. Hoke. No. 85,710; Mar. 5; Gaz. vol. 176; p. 271.
Medicine for consumption. The L. M. Higbey Co. No. 88,571; Oct. 1; Gaz. vol. 183; p. 213.
Medicine for female diseases. Chattanooga Medicine Co. No. 84,899; Jan. 9; Gaz. vol. 174; p. 582.
Medicine for headaches, stomach trouble, &c. E. L. Baldwin. No. 86,024; Apr. 9; Gaz. vol. 177; p. 519.
Medicine for live stock, Liver. Bee Dee Stock Medicine Co. No. 85,547; Feb. 27; Gaz. vol. 175; p. 1093.
Medicine for lung and throat ailments. Rondoux Sisters. No. 87,929; Aug. 13; Gaz. vol. 181; p. 537.
Medicine for rheumatism. M. Curtis. No. 87,525; July 23; Gaz. vol. 180; p. 1133.
Medicine for rheumatism, eczema, anemia, &c. C. Mazzone. No. 88,631; Oct. 8; Gaz. vol. 183; p. 499.
Medicine for sour stomach, nausea, &c., internal. The Rose Bud Tabule Co. No. 89,204; Nov. 19; Gaz. vol. 184; p. 800.
Medicine for the relief of rheumatism. A. Herrmann, Sr. No. 85,580; Feb. 27; Gaz. vol. 175; p. 1094.
Medicine, Liver. Chattanooga Medicine Co. No. 84,900; Jan. 9; Gaz. vol. 174; p. 582.
Medicine, Liver. Chattanooga Medicine Co. No. 85,325; Feb. 13; Gaz. vol. 175; p. 537.
Medicines and pharmaceutical preparations, Certain. J. F. Ballard. No. 87,035; June 25; Gaz. vol. 179; p. 1101.
Medicines and pharmaceutical preparations, Certain. L. T. Coates. No. 87,044; June 25; Gaz. vol. 179; p. 1101.
Medicines and pharmaceutical preparations, Certain. Owl Drug Co. No. 87,475; July 16; Gaz. vol. 180; p. 875.
Medicines and pharmaceutical preparations, Certain. Dr. Partridge Medicine Co. No. 87,561; July 23; Gaz. vol. 180; p. 1134.
Medicines and remedies for certain diseases, Certain. La Belle Drug Co. No. 87,347; July 9; Gaz. vol. 180; p. 598.
Medicines, Certain. L. T. Coates. No. 86,384; May 7; Gaz. vol. 178; p. 314.
Medicines, Certain. The C. L. Sheppard Sanitorium and Remedy Co. No. 86,463; May 7; Gaz. vol. 178; p. 316.
Medicines, Certain named. P. Harrison. No. 88,570; Oct. 1; Gaz. vol. 183; p. 213.
Medicines for blood diseases. Oklahoma Medicine Company. No. 89,688; Dec. 31; Gaz. vol. 185; p. 1375.
Medicines for diseases of the skin. Corona Chemical Company. No. 86,210; Apr. 23; Gaz. vol. 177; p. 1039.
Medicines, Laxative. The Tarrant Company. Nos. 89,394–5; Dec. 10; Gaz. vol. 185; p. 521.
Medicines, Poultry. V. C. Kerby. No. 89,271; Dec. 3; Gaz. vol. 185; p. 244.
Medicines, Tocological. Dr. Nicanor Bolet, Inc. Nos. 89,196–7; Nov. 19; Gaz. vol. 184; p. 799.
Medicines, Veterinary. Gulliver & Merwine. No. 87,206; July 2; Gaz. vol. 180; p. 317.
Metal-alloy ingots. The ParSil Metal Company. No. 85,482; Feb. 20; Gaz. vol. 175; p. 839.
Metal, Antifriction. The Continental Metal Company. Nos. 87,855–6; Aug. 13; Gaz. vol. 181; p. 535.
Metal articles, Coatings for. The North & Judd Manufacturing Company. No. 86,728; May 28; Gaz. vol. 178; p. 1148.
Metal, Bearing. R. E. Miller. No. 87,904; Aug. 13; Gaz. vol. 181; p. 537.
Metal carbon-remover. S. W. Blandin. No. 87,149; July 2; Gaz. vol. 180; p. 315.
Metal castings. American Brake Shoe & Foundry Company. No. 87,141; July 2; Gaz. vol. 180; p. 315.
Metal castings and forgings, Certain. Poldihütte, Tiegelguszstahlfabrik. No. 85,613; Feb. 27; Gaz. vol. 175; p. 1095.
Metal cleaning and polishing compositions. Household Convenience Company. No. 85,126; Jan. 30; Gaz. vol. 174; p. 1213.
Metal cleaning and polishing compounds. The Atkins Co. No. 89,606; Dec. 31; Gaz. vol. 185; p. 1373.
Metal for certain uses, Specially-prepared cast. American Abrasive Metals Co. No. 88,991; Nov. 5; Gaz. vol. 184; p. 281.
Metal having the appearance of gold. Non-Corroding Metal Company. No. 87,246; July 2; Gaz. vol. 180; p. 318.
Metal or wood primers, Face liquid for use as a sealing coat over. Standard Varnish Works. No. 85,196; Jan. 30; Gaz. vol. 174; p. 1215.
Metal-polish. The Rudolph Wurlitzer Co. No. 85,537; Feb. 20; Gaz. vol. 175; p. 841.
Metal-polish. A. D. Miller's Sons Co. No. 85,606; Feb. 27; Gaz. vol. 175; p. 1095.
Metal-polish. Wilson & Wineman. No. 85,783; Mar. 12; Gaz. vol. 176; p. 522.
Metal-polish. The Chicago Polish Company. No. 85,946; Apr. 2; Gaz. vol. 177; p. 235.
Metal-polish. E. Brown. No. 86,127; Apr. 16; Gaz. vol. 177; p. 765.
Metal-polish. J. C. Paul. No. 86,613; May 21; Gaz. vol. 178; p. 880.
Metal-polish. The Cudahy Packing Company. No. 86,699; May 28; Gaz. vol. 178; p. 1147.
Metal-polish. H. T. Newman. No. 87,096; June 25; Gaz. vol. 179; p. 1103.
Metal-polish. Jago Mfg. Co. No. 89,116; Nov. 12; Gaz. vol. 184; p. 546.
Metal-polish, Liquid. Woodington Manufacturing Company. No. 87,509; July 16; Gaz. vol. 180; p. 876.
Metal-polishes. Ulrich & Co. No. 87,502; July 16; Gaz. vol. 180; p. 876.
Metal, Preparation for nickel-plating. H. P. Gorman. No. 86,215; Apr. 23; Gaz. vol. 177; p. 1039.
Metal, Sheet. E. H. West. No. 87,132; June 25; Gaz. vol. 179; p. 1104.
Metal sheets, castings, and bars. The Lohmann Company. No. 87,781; Aug. 6; Gaz. vol. 181; p. 261.
Metal used in castings. Ingersoll-Rand Co. No. 86,301; Apr. 30; Gaz. vol. 177; p. 1292.
Metals and alloys having high electrical resistance. General Electric Company. No. 88,269; Sept. 10; Gaz. vol. 182; p. 504.
Metals and metal castings and forgings. Sanderson Brothers & Newbould. No. 86,735; May 28; Gaz. vol. 178; p. 1148.
Metals, Babbitt and antifriction. Great Western Smelting & Refining Co. No. 88,276; Sept. 10; Gaz. vol. 182; p. 504.
Metals, Babbitt and antifriction. Great Western Smelting & Refining Co. No. 89,025; Nov. 5; Gaz. vol. 184; p. 282.
Metals cast in ingots, Certain. Union Smelting & Refining Company. No. 85,624; Feb. 27; Gaz. vol. 175; p. 1095.
Metals, Preparation for regenerating. Metall-Regeno G. m. b. H. No. 86,814; June 4; Gaz. vol. 179; p. 282.
Metals, Substance for case-hardening. The Thomas Buchanan Company. No. 89,398; Dec. 10; Gaz. vol. 185; p. 521.
Metals, Unwrought and partly-wrought. Aerometal Syndicate. No. 89,173; Nov. 12; Gaz. vol. 184; p. 547.
Metallic reinforcing bars and members. W. B. Hough, No. 87,212; July 2; Gaz. vol. 180; p. 317.
Meters and parts thereof, Water and other fluid. Neptune Meter Company. No. 88,512; Sept. 24; Gaz. vol. 182; p. 967.
Meters and parts thereof, Water and other fluid. Neptune Meter Company. Nos. 88,779–80; Oct. 22; Gaz. vol. 183; p. 1028.
Middlings, bran, and stock feed. Lawrenceburg Roller Mills Co. No. 87,460; July 16; Gaz. vol. 180; p. 875.
Milk. Union Dairy Company. No. 84,888; Jan. 9; Gaz. vol. 174; p. 581.
Milk and cream. T. F. Ryan. No. 86,622; May 21; Gaz. vol. 178; p. 880.
Milk and iron, Nutritive compound of. Dr. Franz Stohr. No. 89,392; Dec. 10; Gaz. vol. 185; p. 521.
Milk, Bulgarian curdled. Société Anonyme La Maya Bulgare. No. 86,470; May 7; Gaz. vol. 178; p. 316.
Milk, Certain prepared form of. J. A. Wülfing. No. 85,786; Mar. 12; Gaz. vol. 176; p. 523.
Milk, Condensed. American Milk Company. No. 85,936; Apr. 2; Gaz. vol. 177; p. 235.
Milk, Condensed skimmed. Foster Packing Company. No. 87,617; July 30; Gaz. vol. 180; p. 1388.
Milk, cream, butter, and cheese. J. R. Hatmaker. No. 86,056; Apr. 9; Gaz. vol. 177; p. 520.
Milk, dried eggs, and mince-meat, Dried. Merrell-Soule Company. No. 87,233; July 2; Gaz. vol. 180; p. 317.
Milk, Evaporated. St. Charles Condensing Company. No. 87,120; June 25; Gaz. vol. 179; p. 1103.
Milk, Evaporated. Helvetia Milk Condensing Company. No. 88,285; Sept. 10; Gaz. vol. 182; p. 504.
Milk, Evaporated. The Van Camp Packing Co. No. 88,536; Sept. 24; Gaz. vol. 182; p. 967.
Milk, Evaporated. P. E. Sharpless Company. No. 88,791; Oct. 22; Gaz. vol. 183; p. 1029.
Milk, Evaporated. Highland Milk Condensing Co. No. 89,030; Nov. 5; Gaz. vol. 184; p. 282.
Milk, Fermented. Empire State Dairy Company. No. 89,021; Nov. 5; Gaz. vol. 184; p. 282.
Milk, Fermented. The Biolac Fermented Milk Company. No. 89,089; Nov. 12; Gaz. vol. 184; p. 545.
Milk, peanut-butter, honey, sugar, &c. Oakford and Fahnestock. No. 87,248; July 2; Gaz. vol. 180; p. 318.
Milk-powder. Merrell-Soule Co. No. 84,844; Jan. 9; Gaz. vol. 174; p. 580.
Milk products for infants. L. Hoos. No. 89,033; Nov. 5; Gaz. vol. 184; p. 282.
Milk products in dry form. Merrell-Soule Co. No. 86,312; Apr. 30; Gaz. vol. 177; p. 1292.
Mills and grain-elevating machinery, Flour, feed, and cereal. Robinson Manufacturing Company. No. 88,593; Oct. 1; Gaz. vol. 183; p. 214.
Mince-meat. The W. H. Marvin Company. No. 85,667; Mar. 5; Gaz. vol. 176; p. 270.
Mince-meat, infant food, and preserved eggs. Merrell-Soule Co. No. 87,089; June 25; Gaz. vol. 179; p. 1102.

Alphabetical list of trade-marks—Continued.

Mirror and picture frames. J. C. Dowd & Co. No. 88,859; Oct. 29; Gaz. vol. 183; p. 1302.
Mirror-supports, Adjustable. G. Davidson. No. 86,888; June 11; Gaz. vol. 179; p. 567.
Mittens and gloves. The Chaddock-Kurz Reversible Glove Co. No. 86,572; May 21; Gaz. vol. 178; p. 879.
Molasses. American Molasses Co. No. 84,799; Jan. 9; Gaz. vol. 174; p. 579.
Molasses. Boston Molasses Co. No. 87,036; June 25; Gaz. vol. 179; p. 1101.
Molasses. Boston Molasses Co. No. 87,599; July 30; Gaz. vol. 180; p. 1387.
Mops. Channell Chemical Company. No. 87,163; July 2; Gaz. vol. 180; p. 315.
Mops, Fountain-. B. H. Pugh. No. 85,636; Feb. 27; Gaz. vol. 175; p. 1095.
Motors, motor parts, armatures, &c. Daimler-Motoren-Gesellschaft. No. 85,949; Apr. 2; Gaz. vol. 177; p. 235.
Mouth-wash and remedy for diseased mucous membranes. Imo Chemical Company. No. 89,115; Nov. 12; Gaz. vol. 184; p. 546.
Mouth-wash and tooth paste and powder. The Dencolo Chemical Company. No. 84,901; Jan. 9; Gaz. vol. 174; p. 582.
Mowers, Lawn-. The Philadelphia Lawn Mower Co. Nos. 89,056–8; Nov. 5; Gaz. vol. 184; p. 283.
Mowers, Lawn-. The Philadelphia Lawn Mower Co. No. 89,497; Dec. 17; Gaz. vol. 185; p. 825.
Mowers, sweepers, and trimmers, and grass-collectors, Lawn. The Philadelphia Lawn Mower Co. No. 89,059; Nov. 5; Gaz. vol. 184; p. 283.
Mowing-machines. Emerson-Brantingham Company. No. 86,044; Apr. 9; Gaz. vol. 177; p. 519.
Mucilage. Tower Manufacturing & Novelty Co. No. 87,286; July 2; Gaz. vol. 180; p. 319.
Music-rolls. Aeolian Company. No. 89,212; Dec. 3; Gaz. vol. 185; p. 243.
Music-rolls, Perforated. Aeolian Company. No. 88,653; Oct. 15; Gaz. vol. 183; p. 777.
Music-sheets, Perforated. The Wilcox & White Company. No. 85,894; Mar. 26; Gaz. vol. 176; p. 1066.
Musical-instrument strings. Italian Musical String Co. No. 87,541; July 23; Gaz. vol. 180; p. 1134.
Musical-instrument strings. National Musical String Company. No. 88,511; Sept. 24; Gaz. vol. 182; p. 967.
Musical instruments and supplies. Wm. R. Gratz Import Co. No. 86,585; May 21; Gaz. vol. 178; p. 879.
Musical instruments and supplies, Certain. Frankfurter Musikwerke-Fabrik, J. D. Philipps & Söhne A.-G. No. 86,984; June 18; Gaz. vol. 179; p. 847.
Musical instruments and supplies, Certain. Ludwig Hupfeld Aktiengesellschaft. No. 87,351; July 9; Gaz. vol. 180; p. 598.
Musical instruments, Certain. The A. Schoenhut Company. No. 86,164; Apr. 16; Gaz. vol. 177; p. 766.
Musical instruments, Certain. Lyon & Healy. No. 88,506; Sept. 24; Gaz. vol. 182; p. 967.
Musical strings. The Rudolph Wurlitzer Co. No. 84,774; Jan. 2; Gaz. vol. 174; p. 285.
Mustard. Stickney & Poor Spice Company. No. 85,198; Jan. 30; Gaz. vol. 174; p. 1215.
Mustard. J. & J. Colman. No. 87,166; July 2; Gaz. vol. 180; p. 316.
Nails, Horse-. The Rowe Ring-Point Company. No. 86,734; May 28; Gaz. vol. 178; p. 1148.
Nails, Horse-. Hoopeston Horse Nail Company. No. 88,573; Oct. 1; Gaz. vol. 183; p. 214.
Nails, Horseshoe-. O. Mustad & Sön. No. 89,285; Dec. 3; Gaz. vol. 185; p. 245.
Naphtha. Standard Oil Company. Nos. 86,955–6; June 11; Gaz. vol. 179; p. 569.
Naphtha. Standard Oil Company of New York. No. 87,017; June 18; Gaz. vol. 179; p. 848.
Naphtha, gasolene, and benzin. Vacuum Oil Company. No. 85,928; Mar. 26; Gaz. vol. 176; p. 1067.
Naphtha, gasolene, and benzin. Standard Oil Company of Brazil. No. 87,277; July 2; Gaz. vol. 180; p. 319.
Napkins. Hygienic Fibre Company. Nos. 87,537–8; July 23; Gaz. vol. 180; p. 1133.
Napkins, Baby-diaper and bird's-eye. Hygienic Fibre Company. No. 88,888; Oct. 29; Gaz. vol. 183; p. 1303.
Napkins, Sanitary. Hygienic Fibre Company. Nos. 88,299–301; Sept. 10; Gaz. vol. 182; p. 505.
Napkins, Washable. Hygienic Fibre Company. No. 88,887; Oct. 29; Gaz. vol. 183; p. 1303.
Neckties. United Ribbon Co. No. 85,839; Mar. 19; Gaz. vol. 176; p. 746.
Neckties. T. P. McCutcheon & Bro. No. 87,789; Aug. 6; Gaz. vol. 181; p. 261.
Neckties. Friedman Bros. & Son Neckwear Co. No. 87,872; Aug. 13; Gaz. vol. 181; p. 536.
Neckties. Franklin Knitting Mills. No. 89,643; Dec. 31; Gaz. vol. 185; p. 1374.
Neckties, Men's. Levy & Marcus. No. 88,898; Oct. 29; Gaz. vol. 183; p. 1303.
Needles, Machine-. E. James. No. 87,892; Aug. 13; Gaz. vol. 181; p. 536.
Needles, Sewing-. J. Thornton, Jr. No. 87,498; July 16; Gaz. vol. 180; p. 876.
Newspaper, Quarterly. J. A. Chaloner. No. 84,814; Jan. 9; Gaz. vol. 174; p. 579.
Newspapers and magazines. W. J. Milliken. No. 86,230; Apr. 23; Gaz. vol. 177; p. 1040.
Nipples, Gutta-percha and rubber. E. Rath. No. 87,805; Aug. 6; Gaz. vol. 181; p. 262.
Non-inflammable mass of certain composition. Chemische Fabrik Heidenau Gesellschaft mit beschränkter Haftung. No. 89,536; Dec. 24; Gaz. vol. 185; p. 1049.
Noodles, Egg-. C. F. Mueller Co. No. 85,157; Jan. 30; Gaz. vol. 174; p. 1214.
Noodles for soups. The Pfaffmann Egg Noodle Co. No. 86,935; June 11; Gaz. vol. 179; p. 569.
Numbering and dating machines. William A. Force & Company. No. 88,268; Sept. 10; Gaz. vol. 182; p. 504.
Nut-butter. C. Lande. No. 87,459; July 16; Gaz. vol. 180; p. 875.
Nuts and bolts, metal washers, &c. Brampton Brothers. No. 88,730; Oct. 22; Gaz. vol. 183; p. 1027.
Nuts, Assorted dinner-. Francis H. Leggett & Co. No. 85,148; Jan. 30; Gaz. vol. 174; p. 1213.
Objective-lens systems. C. Zeiss. Nos. 85,306–8; Feb. 6; Gaz. vol. 175; p. 261.
Obtundents. Clay & Abraham. No. 84,939; Jan. 16; Gaz. vol. 174; p. 823.
Odometers. L. Baumgaertner. No. 88,453; Sept. 24; Gaz. vol. 182; p. 965.
Oil and grease, Lubricating. The Standard Lubricant Co. No. 88,796; Oct. 22; Gaz. vol. 183; p. 1029.
Oil and oleo-stearin composition, Cotton-seed. Edible Products Company. No. 89,020; Nov. 5; Gaz. vol. 184; p. 282.
Oil and oleo-stearin, Cooking compound containing cotton-seed. The N. K. Fairbank Company. No. 85,235; Feb. 6; Gaz. vol. 175; p. 259.
Oil and oleo-stearin, Cooking compound containing cotton-seed. The N. K. Fairbank Company. Nos. 86,045–7; Apr. 9; Gaz. vol. 177; p. 519.
Oil, Antiseptic, disinfectant, or deodorant pine-. Pensacola Tar & Turpentine Co. No. 89,140; Nov. 12; Gaz. vol. 184; p. 546.
Oil-cake and oil-meal. Kelloggs & Miller. No. 84,834; Jan. 9; Gaz. vol. 174; p. 580.
Oil capsules, Olive-. T. Martindale & Co. No. 89,678; Dec. 31; Gaz. vol. 185; p.1375.
Oil-cloth. Standard Oil Cloth Co. No. 87,571; July 23; Gaz. vol. 180; p. 1134.
Oil-cloths. Standard Oil Cloth Co. Nos. 87,274–6; July 2; Gaz. vol. 180; p. 319.
Oil, Cod-liver. H. Balzhiser. No. 86,201; Apr. 23; Gaz. vol. 177; p. 1039.
Oil, Cooking-. The Texas Refining Company. No. 86,008; Apr. 2; Gaz. vol. 177; p. 237.
Oil, Cooking-. The Campbell Company. No. 88,731; Oct. 22; Gaz. vol. 183; p. 1027.
Oil, Cotton-seed. Kentucky Refining Co. Nos. 84,972–3; Jan. 16; Gaz. vol. 174; p. 824.
Oil, Cotton-seed. The N. K. Fairbank Company. No. 88,402; Sept. 17; Gaz. vol. 182; p. 717.
Oil, Cotton-seed. The American Cotton Oil Company. No. 88,992; Nov. 5; Gaz. vol. 184; p. 281.
Oil, Cotton-seed. Kentucky Refining Company. No. 89,668; Dec. 31; Gaz. vol. 185; p. 1375.
Oil, cup and axle greases, Cylinder-. Marshall Oil Company of Iowa. No. 86,604; May 21; Gaz. vol. 178; p. 880.
Oil, Cylinder-. Wm. C. Robinson & Son, Co. No. 85,998; Apr. 2; Gaz. vol. 177; p. 237.
Oil, Cylinder-. Wm. C. Robinson & Son, Co. No. 86,618; May 21; Gaz. vol. 178; p. 880.
Oil, Cylinder and engine. Wm. C. Robinson & Son, Co. No. 85,997; Apr. 2; Gaz. vol. 177; p. 236.
Oil diluted with cotton-seed oil, Olive-. S. A. Microutsicos. No. 85,826; Mar. 19; Gaz. vol. 176; p. 746.
Oil, Engine-. Wm. C. Robinson & Son, Co. No. 85,999; Apr. 2; Gaz. vol. 177; p. 237.
Oil, Floor-. National Chemical Co. No. 87,243; July 2; Gaz. vol. 180; p. 318.
Oil for cooking purposes, Cotton-seed. Delta Oil Co. No. 86,889; June 11; Gaz. vol. 179; p. 567.
Oil for finishing leather. Farbenfabriken of Elberfeld Company. No. 87,058; June 25; Gaz. vol. 179; p. 1102.
Oil for illuminating, heating, &c. Standard Oil Co. of New York. No. 86,018; Apr. 2; Gaz. vol. 177; p. 237.
Oil for lighting, heating, and power purposes. Standard Oil Company. Nos 86,951–2; June 11; Gaz. vol. 179; p. 569.
Oil for preventing moisture from collecting upon glazed surfaces. Lewis & Mitchell. Nos. 84,473–4; Dec. 17; Gaz. vol. 185; p. 824.
Oil for stuffing leather. E. Levinstein. No. 86,717; May 28; Gaz. vol. 178; p. 1148.
Oil for use in gasolene-gas-generating machines, carbureters, &c. G. F. Schmidt. No. 89,297; Dec. 3; Gaz. vol. 185; p. 245.
Oil, Fresh olive-. William Wolff & Co. No. 89,522; Dec. 17; Gaz. vol. 185; p. 825.
Oil-grease guns. The Randall-Faichney Company. No. 86,937; June 11; Gaz. vol. 179; p. 569.
Oil, Illuminating-. West India Oil Company. No. 85,532; Feb. 20; Gaz. vol. 175; p. 840.

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Oil, Illuminating-. Longman & Martinez. No. 86,070; Apr. 9; Gaz. vol. 177; p. 520.
Oil, Linseed-. Fredonia Linseed Oil Works. No. 85,573; Feb. 27; Gaz. vol. 175; p. 1094.
Oil, Lubricating-. The Great Western Oil Co. No. 85,109; Jan. 30; Gaz. vol. 174; p. 1212.
Oil, Lubricating-. P. A. Haven. No. 85,439; Feb. 20; Gaz. vol. 175; p. 838.
Oil, Lubricating-. The Clarkson & Ford Company. No. 86,881; June 11; Gaz. vol. 179; p. 567.
Oil, Lubricating-. Texas Company. No. 87,824; Aug. 6; Gaz. vol. 181; p. 262.
Oil, Lubricating-. Union Well Supply Co. No. 88,388; Sept. 10; Gaz. vol. 182; p. 507.
Oil, Lubricating-. The Texas Company. No. 88,712; Oct. 15; Gaz. vol. 183; p. 778.
Oil, Lubricating-. The Texas Company. No. 88,714; Oct. 15; Gaz. vol. 183; p. 778.
Oil, Lubricating-. J. C. Cochran. No. 89,625; Dec. 31; Gaz. vol. 185; p. 1374.
Oil, Olive-. The Pompeian Co. No. 85,174; Jan. 30; Gaz. vol. 174; p. 1214.
Oil, Olive-. M. G. Parejo. No. 85,283; Feb. 6; Gaz. vol. 175; p. 261.
Oil, Olive-. C. Francesconi. No. 87,063; June 25; Gaz. vol. 179; p. 1102.
Oil, Olive-. A. Magnano. No. 87,640; July 30; Gaz. vol. 180; p. 1388.
Oil, Olive-. E. G. Sophos. No. 88,528; Sept. 24; Gaz. vol. 182; p. 967.
Oil, Olive-. Meyer Brothers Drug Company. No. 89,569; Dec. 24; Gaz. vol. 185; p. 1050.
Oil, Refined. Standard Oil Company of Brazil. No. 86,737; May 28; Gaz. vol. 178; p. 1148.
Oil, Refined. Standard Oil Company of New York. No. 89,513; Dec. 17; Gaz. vol. 185; p. 825.
Oil, Salad-. Fischer Brothers. No. 88,837; Oct. 29; Gaz. vol. 183; p. 1301.
Oil, Salad-. P. Pastene & Co. No. 89,054; Nov. 5; Gaz. vol. 184; p. 283.
Oil, Soy-bean-. Garrels & Börner. No. 84,955; Jan. 16; Gaz. vol. 174; p. 824.
Oil substitute, Linseed-. B. Morgan. No. 86,923; June 11; Gaz. vol. 179; p. 568.
Oil substitutes, Linseed-. Red Star Oil Company. No. 86,330; Apr. 30; Gaz. vol. 177; p. 1293.
Oil, Valve-. Wm. C. Robinson & Son, Co. No. 86,000; Apr. 2; Gaz. vol. 177; p. 237.
Oils and greases. Pellucidine Company. No. 87,654; July 30; Gaz. vol. 180; p. 1389.
Oils and greases. Oriental Oil Company. No. 89,137; Nov. 12; Gaz. vol. 184; p. 546.
Oils and greases, Certain named. G. E. Buck. No. 88,238; Sept. 10; Gaz. vol. 182; p. 503.
Oils and greases, Lubricating. C. F. Sweet, Inc. No. 85,516; Feb. 20; Gaz. vol. 175; p. 840.
Oils and greases, Lubricating. G. A. Haws. No. 87,627; July 30; Gaz. vol. 180; p. 1388.
Oils and greases made from petroleum products, Lubricating and illuminating. The Great Western Oil Co. No. 85,243; Feb. 6; Gaz. vol. 175; p. 260.
Oils and lubricants, Motor. The White & Bagley Co. No. 86,851; June 4; Gaz. vol. 179; p. 283.
Oils, Coal-tar. Barrett Manufacturing Company. No. 86,872; June 11; Gaz. vol. 179; p. 567.
Oils, Fish-. Russia Cement Company. No. 89,064; Nov. 5; Gaz. vol. 184; p. 283.
Oils for heating, lighting, and lubricating. C. C. Wakefield & Company. No. 89,589; Dec. 24; Gaz. vol. 185; p. 1051.
Oils for lubricating or burning. P. Moir Crane & Co. No. 86,697; May 28; Gaz. vol. 178; p. 1147.
Oils for making casting core-molds. Bayerson Oil Works. No. 84,718; Jan. 2; Gaz. vol. 174; p. 283.
Oils for mixing paints. Red Star Oil Company. No. 85,288; Feb. 6; Gaz. vol. 175; p. 261.
Oils for treatment of textiles and leather. B. P. Ducas Co. No. 85,091; Jan. 30; Gaz. vol. 174; p. 1212.
Oils, greases, and compounds, Lubricating. The Ironsides Company. No. 88,305; Sept. 10; Gaz. vol. 182; p. 505.
Oils, greases, and compounds, Lubricating. The Ironsides Company. Nos. 88,889–90; Oct. 29; Gaz. vol. 183; p. 1303.
Oils, greases, and compounds, Lubricating. Ironsides Company. No. 89,664; Dec. 31; Gaz. vol. 185; p. 1375.
Oils, greases, and waxes. Centralene Oil Company. No. 88,059; Aug. 27; Gaz. vol. 181; p. 1067.
Oils, Illuminating-. Standard Oil Co. of New York. No. 87,018; June 18; Gaz. vol. 179; p. 848.
Oils, Illuminating-. Standard Oil Co. of New York. No. 87,118; June 25; Gaz. vol. 179; p. 1103.
Oils, Illuminating-. Vacuum Oil Company. No. 87,128; June 25; Gaz. vol. 179; p. 1104.
Oils, Illuminating-. Crown Oil & Wax Co. No. 87,608; July 30; Gaz. vol. 180; p. 1387.
Oils, Illuminating-. Standard Oil Co. of New York. No. 88,529; Sept. 24; Gaz. vol. 182; p. 967.
Oils, Lubricating-. Standard Oil Co. of New York. No. 85,194; Jan. 30; Gaz. vol. 174; p. 1215.
Oils, Lubricating-. Monarch Oil Refining Co. No. 85,465; Feb. 20; Gaz. vol. 175; p. 839.
Oils, Lubricating-. The Texas Company. Nos. 85,518–21; Feb. 20; Gaz. vol. 175; p. 840.
Oils, Lubricating-. Union Oil Co. of California. No. 85,527; Feb. 20; Gaz. vol. 175; p. 840.
Oils, Lubricating-. The Texas Company. No. 85,694; Mar. 5; Gaz. vol. 176; p. 270.
Oils, Lubricating-. The Holt Manufacturing Company. No. 85,748; Mar. 12; Gaz. vol. 176; p. 521.
Oils, Lubricating-. Ingersoll-Rand Company. No. 85,906; Mar. 26; Gaz. vol. 176; p. 1066.
Oils, Lubricating-. Standard Oil Company. No. 85,922; Mar. 26; Gaz. vol. 176; p. 1067.
Oils, Lubricating-. The Texas Company. No. 85,924; Mar. 26; Gaz. vol. 176; p. 1067.
Oils, Lubricating-. Utah Oil Refining Company. No. 86,181; Apr. 16; Gaz. vol. 177; p. 767.
Oils, Lubricating-. Utah Oil Refining Company. No. 86,185; Apr. 16; Gaz. vol. 177; p. 767.
Oils, Lubricating-. Indian Refining Company. No. 86,409; May 7; Gaz. vol. 178; p. 314.
Oils, Lubricating-. Texas Company. Nos. 87,283–4; July 2; Gaz. vol. 180; p. 319.
Oils, Lubricating-. Wadhams Oil Company. No. 87,294; July 2; Gaz. vol. 180; p. 319.
Oils, Lubricating-. The Texas Company. No. 88,032; Aug. 20; Gaz. vol. 181; p. 817.
Oils, Lubricating-. Stiles Brothers. No. 89,516; Dec. 17; Gaz. vol. 185; p. 825.
Oils, resin-spirits, turpentine, and paints, Paint-. Pensacola Tar & Turpentine Company. No. 89,139; Nov. 12; Gaz. vol. 184; p. 546.
Oils, Vegetable. Hirst & Begley Linseed Co. No. 85,814; Mar. 19; Gaz. vol. 176; p. 745.
Oiled duck. Chandler Oil Cloth & Buckram Co. No. 86,128; Apr. 16; Gaz. vol. 177; p. 765.
Oiling device for fluid-operated tools. Ingersoll-Rand Co. No. 87,633; July 30; Gaz. vol. 180; p. 1388.
Ointment. C. C. Nielson. No. 85,877; Mar. 26; Gaz. vol. 176; p. 1066.
Ointment. Menley & James. No. 86,813; June 4; Gaz. vol. 179; p. 282.
Ointment. S. I. Rainforth. No. 86,830; June 4; Gaz. vol. 179; p. 282.
Ointment. Joe's Ointment Company. No. 87,544; July 23; Gaz. vol. 180; p. 1134.
Ointment. P. L. Martin. No. 87,550; July 23; Gaz. vol. 180; p. 1134.
Ointment. Menley & James. No. 87,784; Aug. 6; Gaz. vol. 181; p. 261.
Ointment. Big Spring Mfg. Co. No. 88,458; Sept. 24; Gaz. vol. 182; p. 965.
Ointment. N. B. Bartz. No. 88,611; Oct. 8; Gaz. vol. 183; p. 499.
Ointment. The Varicocene Company. No. 89,721; Dec. 31; Gaz. vol. 185; p. 1376.
Ointment and salve. B. Robinson. No. 89,294; Dec. 3; Gaz. vol. 185; p. 245.
Ointment, balm, and pills. A-Heal-A Co. No. 87,512; July 23; Gaz. vol. 180; p. 1133.
Ointment, Bottled. K. Powell. No. 89,142; Nov. 12; Gaz. vol. 184; p. 547.
Ointment or cream. J. V. Daniels. No. 89,231; Dec. 3; Gaz. vol. 185; p. 243.
Ointment, pomade, blood remedy, &c. The Morgan Drug Co. No. 87,000; June 18; Gaz. vol. 179; p. 847.
Ointments. The Antholine Manufacturing Co. No. 84,894; Jan. 9; Gaz. vol. 174; p. 581.
Ointments. J. A. Glenn. No. 88,672; Oct. 15; Gaz. vol. 183; p. 777.
Ointments and remedies for certain diseases. P. G. Charbonnet. No. 85,705; Mar. 5; Gaz. vol. 176; p. 271.
Oleomargarin. Ammon & Person. No. 86,264; Apr. 30; Gaz. vol. 177; p. 1291.
Oleomargarin. John F. Jelke Company. No. 86,411; May 7; Gaz. vol. 178; p. 314.
Oleomargarin. Ammon & Person. Nos. 87,838–9; Aug. 13; Gaz. vol. 181; p. 535.
Oleomargarin. Ammon & Person. Nos. 88,150–2; Sept. 3; Gaz. vol. 182; p. 243.
Oleomargarin. The Utrecht Export Cy. "Griendt Brothers." No. 89,308; Dec. 3; Gaz. vol. 185; p. 246.
Onyx. F. J. Lea. No. 87,777; Aug. 6; Gaz. vol. 181; p. 261.
Optical and measuring instruments, Certain. The Euclid Optical Company. No. 85,234; Feb. 6; Gaz. vol. 175; p. 259.
Optical appliances, Certain. Universal Optical Corporation. No. 85,888; Mar. 26; Gaz. vol. 176; p. 1066.
Optical goods, Certain. C. Zeiss. No. 85,539; Feb. 20; Gaz. vol. 175; p. 841.
Optical supplies, Certain. G. C. Precerutti. No. 85,487; Feb. 20; Gaz. vol. 175; p. 839.
Optical supplies, Certain. Universal Optical Corporation. No. 86,642; May 21; Gaz. vol. 178; p. 881.
Optical supplies, Certain. Western Optical Manufacturing Company. No. 86,651; May 21; Gaz. vol. 178; p. 881.
Orangeade preparation. Los Angeles Pure Fruit Co. No. 86,719; May 28; Gaz. vol. 178; p. 1148.
Oranges. G. Kaehler. No. 85,255; Feb. 6; Gaz. vol. 175; p. 260.

Alphabetical list of trade-marks—Continued.

Oranges. Upland Citrus Ass'n. No. 85,927; Mar. 26; Gaz. vol. 176; p. 1067.
Oranges. A. F. Young & Co. No. 86,017; Apr. 2; Gaz. vol. 177; p. 237.
Oranges. A. F. Young & Co. No. 86,652; May 21; Gaz. vol. 178; p. 881.
Oranges. M. F. McDonald. No. 86,667; May 21; Gaz. vol. 178; p. 882.
Oranges. Charter Oak Citrus Assn. No. 86,880; June 11; Gaz. vol. 179; p. 567.
Oranges. Charter Oak Citrus Assn. Nos. 87,423–4; July 16; Gaz. vol. 180; p. 874.
Oranges. Limona Citrus Growers' Association. No. 88,185; Sept. 3; Gaz. vol. 182; p. 244.
Oranges. L. A. Redfield. No. 88,360; Sept. 10; Gaz. vol. 182; p. 507.
Oranges and grape-fruit. Chase & Company. No. 86,382; May 7; Gaz. vol. 178; p. 314.
Oranges and lemons. Charter Oak Citrus Assn. No. 84,937; Jan. 16; Gaz. vol. 174; p. 823.
Oranges and lemons. Hunt, Hatch & Co. Nos. 87,630–1; July 30; Gaz. vol. 180; p. 1388.
Oranges and lemons. Johnston Fruit Co. No. 87,635; July 30; Gaz. vol. 180; p. 1388.
Oranges and lemons. Hunt, Hatch & Co. Nos. 88,295–6; Sept. 10; Gaz. vol. 182; p. 506.
Oranges, Fresh. A. G. Maddock. No. 87,899; Aug. 13; Gaz. vol. 181; p. 536.
Oranges, grape-fruit, and tangerines. Isleworth Grove Company. No. 86,410; May 7; Gaz. vol. 178; p. 314.
Oranges, grape-fruit, lemons, &c. Esperanza Fruit Co. No. 85,095; Jan. 30; Gaz. vol. 174; p. 1212.
Oranges, grape-fruit, lemons, tangerines, and cumquats. Florida East Coast Company. No. 86,295; Apr. 30; Gaz. vol. 177; p. 1292.
Oranges, grape-fruit, tangerines, and lemons. Moseley & McNiel. No. 88,917; Oct. 29; Gaz. vol. 183; p. 1303.
Oranges, grape-fruit, tangerines, lemons, and limes. Manatee Citrus Growers Association. No. 87,085; June 25; Gaz. vol. 179; p. 1102.
Oranges, grape-fruit, tangerines, lemons, and limes. Terra Ceia Citrus Growers Association. No. 89,517; Dec. 17; Gaz. vol. 185; p. 825.
Oranges, lemons, grape-fruit, limes, and citron. W. Allan. No. 85,213; Feb. 6; Gaz. vol. 175; p. 259.
Oranges, lemons, grape-fruit, tangerines, and limes. The Cocoanut Citrus Grower's Association. No. 85,649; Mar. 5; Gaz. vol. 176; p. 269.
Oranges, lemons, grape-fruit, tangerines, and limes. Lake Region Packing Association. No. 85,909; Mar. 26; Gaz. vol. 176; p. 1067.
Oranges, lemons, grape-fruit, tangerines, and limes. South Lake Apopka Citrus Growers Association. No. 86,342; Apr. 30; Gaz. vol. 177; p. 1293.
Oranges, lemons, grape-fruit, tangerines, and limes. L. B. Skinner. Nos. 86,366–8; May 7; Gaz. vol. 178; p. 313.
Oranges, lemons, grape-fruit, tangerines, and limes. The Citra Fruit Company. Nos. 88,845–7; Oct. 29; Gaz. vol 183; p. 1301.
Oranges, lemons, grape-fruit, tangerines, and limes. The Cocoanut Grove Citrus Growers' Association. No. 89,002; Nov. 5; Gaz. vol. 184; p. 281.
Oranges, lemons, pomelos, and grape-fruit. Sugar Loaf Orange Growers Association. No. 87,681; July 30; Gaz. vol. 180; p. 1390.
Oranges, lemons, tangerines, grape-fruit, and limes. W. C. Temple. No. 85,693; Mar. 5; Gaz. vol. 176; p. 270.
Organs and pianos. Williams Organ & Piano Co. No. 86,112; Apr. 9; Gaz. vol. 177; p. 521.
Overalls. Eloesser-Heynemann Co. No. 88,743; Oct. 22; Gaz. vol. 183; p. 1027.
Overalls. Ely & Walker Dry Goods Co. No. 89,635; Dec. 31; Gaz. vol. 185; p. 1374.
Overalls and overall-jackets. J. N. Montgomery. No. 88,915; Oct. 29; Gaz. vol. 183; p. 1303.
Overalls, jumpers, coats, and trousers. Volunteer Mfg. Company. No. 87,021; June 18; Gaz. vol. 179; p. 848.
Overalls, trousers, and jumpers. Weiler Manufacturing Co. No. 88,985; Oct. 29; Gaz. vol. 183; p. 1305.
Overcoats, coats, waistcoats, and trousers. John Rugheimer Sons. No. 86,459; May 7; Gaz. vol. 178; p. 316.
Overgaiters and leggings. Perfection Overgaiter Co. No. 87,920; Aug. 13; Gaz. vol. 181; p. 537.
Oyster-shipping cases. The Sealshipt Oyster System. Nos. 86,166–7; Apr. 16; Gaz. vol. 177; p. 766.
Oysters, Fresh. Miles & Co. Nos. 86,921–2; June 11; Gaz. vol. 179; p. 568.
Oysters, Fresh. The American Fish & Oyster Company. No. 88,148; Sept. 3; Gaz. vol. 182; p. 243.
Oysters in cans. The Atlantic Packing Co. No. 85,725; Mar. 12; Gaz. vol. 176; p. 521.
Oysters, Raw. W. H. McGee. No. 86,145; Apr. 16; Gaz. vol. 177; p. 765.
Ozonizing apparatus. American Ozone Company. No. 88,725; Oct. 22; Gaz. vol. 183; p. 1027.
Packing. Peerless Rubber Manufacturing Company. No. 86,154; Apr. 16; Gaz. vol. 177; p. 766.
Packing. Vulcan Asbestos Mfg. Co. No. 89,310; Dec. 3; Gaz. vol. 185; p. 246.
Packing and tires composed of rubber or a combination of rubber and other material, Certain machinery. La Favorite Rubber M'f'g. Co. No. 87,775; Aug. 6; Gaz. vol. 181; p. 261.
Packing, Asbestos. Calmon Asbestos & Rubber Works of America. No. 88,239; Sept. 10; Gaz. vol. 182; p. 503.
Packing, Asbestos machinery. F. Burgmann. No. 86,694; May 28; Gaz. vol. 178; p. 1147.
Packing, Certain machinery. The New Jersey Asbestos Co. No. 85,987; Apr. 2; Gaz. vol. 177; p. 236.
Packing, Fibrous mineral. Royer & Zweibel. No. 87,371; July 9; Gaz. vol. 180; p. 599.
Packing for general purposes, Metallic. Universal Flexible Packing Co. No. 88,535; Sept. 24; Gaz. vol. 182; p. 967.
Packing for machinery, Rubber. G. G. Schick. No. 85,182; Jan. 30; Gaz. vol. 174; p. 1214.
Packing for stuffing-boxes. H. C. Sommer Nachfolger. No. 85,472; Feb. 20; Gaz. vol. 175; p. 839.
Packing, Machinery. J. Walker & Co. No. 84,890; Jan. 9; Gaz. vol. 174; p. 581.
Packing, Machinery. New York Belting & Packing Co. No. 85,828; Mar. 19; Gaz. vol. 176; p. 746.
Packing, Piston-. H. W. Johns-Manville Company. No. 86,538; May 14; Gaz. vol. 178; p. 588.
Packing, Steel-wool journal and machinery. Mid-West Specialty Company. No. 89,194; Nov. 19; Gaz. vol. 184; p. 799.
Packings, Metallic. C. Wear. No. 85,210; Jan. 30; Gaz. vol. 174; p. 1215.
Paint. The Muralo Company. No. 86,147; Apr. 16; Gaz. vol. 177; p. 766.
Paint and painters' materials. D. W. Mellen Company. No. 87,783; Aug. 6; Gaz. vol. 181; p. 261.
Paint and painters' materials, Certain. Baer Bros. No. 87,712; Aug. 6; Gaz. vol. 181; p. 259.
Paint and painters' materials, Certain kinds of. The A. H. Thomas Paint Company. No. 88,386; Sept. 10; Gaz. vol. 182; p. 507.
Paint and varnish reducers or thinners. E. Perry. No. 89,290; Dec. 3; Gaz. vol. 185; p. 245.
Paint and varnish thinner. Hildreth Varnish Co. No. 85,117; Jan. 30; Gaz. vol. 174; p. 1213.
Paint, Anticorrosive. Oxymel Oil & Paint Coy. No. 86,612; May 21; Gaz. vol. 178; p. 880.
Paint, Anticorrosive charcoal. J. Z. Jones. No. 89,666; Dec. 31; Gaz. vol. 185; p. 1375.
Paint, Cold-water. F. O. Pierce Co. No. 86,731; May 28; Gaz. vol. 178; p. 1148.
Paint, Cold-water. Liberty Paint Company. No. 86,857; June 4; Gaz. vol. 179; p. 283.
Paint, Enamel. Keystone Varnish Co. No. 86,599; May 21; Gaz. vol. 178; p. 880.
Paint, Oil-. The Sherwin-Williams Company. No. 89,155; Nov. 12; Gaz. vol. 184; p. 547.
Paint-pigments. Magnetic Pigment Company. No. 89,679; Dec. 31; Gaz. vol. 185; p. 1375.
Paint, Ready-mixed. Atlas Preservative Co. No. 87,591; July 30; Gaz. vol. 180; p. 1387.
Paint, Ready-mixed. Patton Paint Company. No. 88,021; Aug. 20; Gaz. vol. 181; p. 816.
Paint, Roman gold. F. L. Sleeper. No. 85,188; Jan. 30; Gaz. vol. 174; p. 1215.
Paint used as a protective coating, Ready-mixed. Patton Paint Company. No. 86,827; June 4; Gaz. vol. 179; p. 282.
Paint, Water-. The Silicate Paint Company J. B. Orr and Company. No. 83,598; Oct. 1; Gaz. vol. 183; p. 214.
Paint, Waterproofing and damp-proofing. Waterproof Engineering Company. No. 85,929; Mar. 26; Gaz. vol. 176; p. 1067.
Paint, Waterproofing and protective. National Insulator Co. No. 85,765; Mar. 12; Gaz. vol. 176; p. 522.
Paints. Holzapfels Limited. No. 85,442; Feb. 20; Gaz. vol. 175; p. 838.
Paints. Holzapfels Limited. No. 86,408; May 7; Gaz. vol. 178; p. 314.
Paints. Denny, Hilborn & Rosenbach. Nos. 86,890–2; June 11; Gaz. vol. 179; p. 568.
Paints. A. A. White Company. No. 87,957; Aug. 13; Gaz. vol. 181; p. 538.
Paints. Denny, Hilborn & Rosenbach. No. 88,855; Oct. 29; Gaz. vol. 183; p. 1302.
Paints and compositions, Marine. Von Höveling American Composition Company. No. 89,519; Dec. 17; Gaz. vol. 185; p. 825.
Paints and painters' materials. The Ohio Varnish Company. No. 86,611; May 21; Gaz. vol. 178; p. 880.
Paints and painters' materials. Baer Bros. No. 87,033; June 25; Gaz. vol. 179; p. 1101.
Paints and painters' materials. Denny, Hilborn & Rosenbach. No. 87,049; June 25; Gaz. vol. 179; p. 1101.
Paints and painters' materials. Buffalo Oil Paint & Varnish Company. No. 87,155; July 2; Gaz. vol. 180; p. 315.
Paints and painters' materials, Certain. Peaslee Gaulbert Company. No. 87,620; July 30; Gaz. vol. 180; p. 1388.
Paints and pigments, Oil-. A. S. Cushman. No. 88,739; Oct. 22; Gaz. vol. 183; p. 1027.

Alphabetical list of trade-marks—Continued.

Paints and varnishes. Wadsworth, Howland & Co. No. 87,692; July 30; Gaz. vol. 180; p. 1390.
Paints, Certain. M. G. Stoneman & Son. No. 87,678; July 30; Gaz. vol. 180; p. 1389.
Paints, Dry. Henke Manufacturing Co. No. 88,289; Sept. 10; Gaz. vol. 182; p. 505.
Paints, finishes, stains, enamels, &c. Patterson-Sargent Company. No. 87,252; July 2; Gaz. vol. 180; p. 318.
Paints, lacquers, and varnishes. Damard Lacquer Company. No. 85,418; Feb. 20; Gaz. vol. 175; p. 837.
Paints, Mixed. Sears, Roebuck and Co. No. 85,921; Mar. 26; Gaz. vol. 176; p. 1067.
Paints, Non-corrosive. Reliance Paint Co. No. 89,700; Dec. 31; Gaz. vol. 185; p. 1376.
Paints, Oil-. Benjamin Moore & Co. No. 85,468; Feb. 20; Gaz. vol. 175; p. 839.
Paints, Preservative. Rednall-Morin Co. No. 89,293; Dec. 3; Gaz. vol. 185; p. 245.
Paints, Ready-mixed. B. F. White. No. 88,816; Oct. 22; Gaz. vol. 183; p. 1029.
Paints, Ready-mixed. J. Lucas & Co. Nos. 89,277–8; Dec. 3; Gaz. vol. 185; p. 245.
Paints, varnish-stain, enamel, and colors in oil. Peters-Pitkin Company. No. 87,362; July 9; Gaz. vol. 180; p. 598.
Paints, varnishes, and paint-oils, Ready-mixed. Ironsides Company. No. 88,304; Sept. 10; Gaz. vol. 182; p. 505.
Paints, varnishes, and stains, Oil-. F. H. Messenger Co. No. 88,322; Sept. 10; Gaz. vol. 182; p. 505.
Paints, Water-. Selman Bros. No. 88,028; Aug. 20; Gaz. vol. 181; p. 817.
Painters' materials, Certain. L. Sonneborn Sons. No. 86,105; Apr. 9; Gaz. vol. 177; p. 521.
Painters' materials, Certain. Union Petroleum Company. No. 86,110; Apr. 9; Gaz. vol. 177; p. 521.
Painters' materials, Certain. G. Benda. Nos. 86,203–4; Apr. 23; Gaz. vol. 177; p. 1039.
Panels, Veneered. White Brothers. No. 85,892; Mar. 26; Gaz. vol. 176; p. 1066.
Pans, skillets, spiders, and griddles, Frying-. New York Stamping Company. No. 86,080; Apr. 9; Gaz. vol. 177; p. 520.
Pants and juvenile suits, Knee-. Goldstein & Levin. No. 88,079; Aug. 27; Gaz. vol. 181; p. 1068.
Paper and books, Manifold carbon. Pen-Carbon Manifold Co. No. 85,171; Jan. 30; Gaz. vol. 174; p. 1214.
Paper and box-board, Straw, chip, and jute wrapping-. J. D. Bowersock. No. 88,836; Oct. 29; Gaz. vol. 183; p. 1301.
Paper and bristol-board, Writing and printing. Geo. W. Wheelwright Paper Company. No. 89,315; Dec. 3; Gaz. vol. 185; p. 246.
Paper and envelops, Letter and printing. A. O. Meyer. No. 86,075; Apr. 9; Gaz. vol. 177; p. 520.
Paper and envelops, Writing-. National Papeterie Company. No. 88,582; Oct. 1; Gaz. vol. 183; p. 214.
Paper and stationery. J. C. Blair Company. Nos. 86,029–30; Apr. 9; Gaz. vol. 177; p. 519.
Paper and stationery. J. C. Blair Company. No. 86,509; May 14; Gaz. vol. 178; p. 587.
Paper and stationery articles, Certain named. E. Hassinger. No. 89,183; Nov. 19; Gaz. vol. 184; p. 799.
Paper and stationery, Certain. J. C. Blair Company. Nos. 87,409–17; July 16; Gaz. vol. 180; p. 873.
Paper and stationery, Certain articles of. A. M. Collins Manufacturing Company. No. 89,443; Dec. 17; Gaz. vol. 185; p. 823.
Paper and stationery, Certain named. Tower Manufacturing & Novelty Co. No. 88,532; Sept. 24; Gaz. vol. 182; p. 967.
Paper and tablets and envelops, Writing. United Drug Company. No. 85,696; Mar. 5; Gaz. vol. 176; p. 270.
Paper and type-writing ribbon, Carbon-. De Fi Manufacturing Company. No. 86,286; Apr. 30; Gaz. vol. 177; p. 1291.
Paper bags. Wayne Paper Goods Company. No. 85,781; Mar. 12; Gaz. vol. 176; p. 522.
Paper bags. The Union Bag and Paper Company. No. 86,965; June 11; Gaz. vol. 179; p. 570.
Paper bags. Crown Columbia Paper Co. No. 87,524; July 23; Gaz. vol. 180; p. 1133.
Paper bags and drinking-cups. The American Paper Goods Company. No. 85,721; Mar. 12; Gaz. vol. 176; p. 521.
Paper, Blue-print. M. M. Levy. No. 88,005; Aug. 20; Gaz. vol. 181; p. 816.
Paper, Book-. George A. Whiting Paper Company. No. 86,675; May 21; Gaz. vol. 178; p. 882.
Paper, Book, printing, and lithographing. West Virginia Pulp & Paper Company. No. 88,038; Aug. 20; Gaz. vol. 181; p. 817.
Paper, Building and insulating. W. P. Fuller & Co. No. 87,199; July 2; Gaz. vol. 180; p. 317.
Paper-comminuting machines. F. Güettler. No. 89,251; Dec. 3; Gaz. vol. 185; p. 244.
Paper, Cooking-. James Spicer & Sons. No. 86,629; May 21; Gaz. vol. 178; p. 880.
Paper, Cooking-. N. Soyer. No. 88,380; Sept. 10; Gaz. vol. 182; p. 507.
Paper, Corrugated. American Paper Products Company. No. 86,022; Apr. 9; Gaz. vol. 177; p. 519.
Paper cups. Public Service Cup Company. No. 87,365; July 9; Gaz. vol. 180; p. 598.
Paper cups. Cordley & Hayes. No. 87,606; July 30; Gaz. vol. 180; p. 1387.
Paper drinking-cups. Sanitary Drinking Cup Co. No. 85,498; Feb. 20; Gaz. vol. 175; p. 839.
Paper, envelops, and tablets. J. C. Blair Company. No. 87,972; Aug. 20; Gaz. vol. 181; p. 815.
Paper, envelops, blank books, and tablets, Writing-. H. Sharp. No. 88,525; Sept. 24; Gaz. vol. 182; p. 967.
Paper, envelops, cards, &c. Western Engraving & Embossing Co. No. 89,314; Dec. 3; Gaz. vol. 185; p. 246.
Paper, envelops, tablets, and blank books. J. C. Blair Company. Nos. 88,233–4; Sept. 10; Gaz. vol. 182; p. 503.
Paper, envelops, tablets, and blank books. J. C. Blair Company. Nos. 88,459–63; Sept. 24; Gaz. vol. 182; p. 965.
Paper, envelops, tablets, and blank books. J. C. Blair Company. No. 89,320; Dec. 3; Gaz. vol. 185; p. 246.
Paper, envelops, tablets, cards, and cardboard. Eaton, Crane & Pike Company. No. 89,451; Dec. 17; Gaz. vol. 185; p. 823.
Paper-fasteners. The Cushman & Denison Manufacturing Company. No. 89,230; Dec. 3; Gaz. vol. 185; p. 243.
Paper, Fiber. Francis H. Leggett & Co. No. 85,147; Jan. 30; Gaz. vol. 174; p. 1213.
Paper food-containers. E. Brainerd. No. 86,272; Apr. 30; Gaz. vol. 177; p. 1291.
Paper hangings. The Wallpaper Manufacturers. No. 89,521; Dec. 17; Gaz. vol. 185; p. 825.
Paper in sheets, strips, and rolls. Chas. E. Perry Co. No. 88,022; Aug. 20; Gaz. vol. 181; p. 816.
Paper roofing. Atlantic Coast Hardware Co. No. 86,200; Apr. 23; Gaz. vol. 177; p. 1039.
Paper, Sheathing-. Barrett Manufacturing Company. No. 85,939; Apr. 2; Gaz. vol. 177; p. 235.
Paper substitute. Alvah Bushnell Company. No. 87,316; July 9; Gaz. vol. 180; p. 597.
Paper tablets and note-books. The Reynolds & Reynolds Company. No. 87,007; June 18; Gaz. vol. 179; p. 848.
Paper tablets and note-books. The Reynolds & Reynolds Company. No. 88,362; Sept. 10; Gaz. vol. 182; p. 507.
Paper, Toilet-. Japanese Tissue Mills. Nos. 85,659–60; Mar. 5; Gaz. vol. 176; p. 269.
Paper, Toilet-. Scott Paper Company. No. 86,165; Apr. 16; Gaz. vol. 177; p. 766.
Paper, Toilet-. Albany Perforated Wrapping Paper Company. Nos. 87,964–5; Aug. 20; Gaz. vol. 181; p. 815.
Paper, Toilet-. Cornell & Ward. No. 87,982; Aug. 20; Gaz. vol. 181; p. 815.
Paper towels and napkins. Japanese Tissue Mills. No. 85,354; Feb. 13; Gaz. vol. 175; p. 538.
Paper wall-coverings. Salubra Wall-Cover Company Basle. No. 89,295; Dec. 3; Gaz. vol. 185; p. 245.
Paper wall-coverings. Salubra Wall-Cover Company Basle. Nos. 89,504–5; Dec. 17; Gaz. vol. 185; p. 825.
Paper, Wrapping-. The Union Paper & Twine Co. No. 85,389; Feb. 13; Gaz. vol. 175; p. 539.
Paper, Wrapping-. Magnolia Paper Co. Nos. 85,872–3; Mar. 26; Gaz. vol. 176; p. 1066.
Paper, Wrapping-. Republic Bag & Paper Co. No. 86,938; June 11; Gaz. vol. 179; p. 569.
Paper, Wrapping-. Rhinelander Paper Company. No. 88,026; Aug. 20; Gaz. vol. 181; p. 817.
Paper, Wrapping-. B. A. Nienhauser. No. 88,515; Sept. 24; Gaz. vol. 182; p. 967.
Paper, Wrapping-. Fisher Bros. Paper Company. No. 89,242; Dec. 3; Gaz. vol. 185; p 244.
Paper, Wrapping-. Hartje Paper Manufacturing Co. No. 89,254; Dec. 3; Gaz. vol. 185; p. 244.
Paper, Wrapping-. Pierce Bros. No. 89,291; Dec. 3; Gaz. vol. 185; p. 245.
Paper, Wrapping, wall, box-covering, &c. Graham Paper Company. No. 89,650; Dec. 31; Gaz. vol. 185; p. 1374.
Paper, Writing-. American Writing Paper Company. Nos. 84,803–5; Jan. 9; Gaz. vol. 174; p. 579.
Paper, Writing-. American Writing Paper Company. Nos. 85,027–30; Jan. 23; Gaz. vol. 174; p. 1023.
Paper, Writing-. American Writing Paper Company. No. 85,222; Feb. 6; Gaz. vol. 175; p. 259.
Paper, Writing-. American Writing Paper Company. No. 85,311; Feb. 13; Gaz. vol. 175; p. 537.
Paper, Writing-. Byron Weston Company. No. 86,276; Apr. 30; Gaz. vol. 177; p. 1291.
Paper, Writing-. B. D. Rising Paper Company. No. 86,504; May 14; Gaz. vol. 178; p. 587.
Paper, Writing-. J. W. Butler Paper Company. No. 88,466; Sept. 24; Gaz. vol. 182; p. 965.
Paper, Writing and printing. American Writing Paper Company. No. 85,031; Jan. 23; Gaz. vol. 174; p. 1023.
Paper, Writing and printing. John Carter and Company. No. 85,845; Mar. 26; Gaz. vol. 176; p. 1065.
Paper, Writing and printing. M. Greenebaum. Nos. 89,460–2; Dec. 17; Gaz. vol. 185; p. 824.
Paper, Writing and printing. American Writing Paper Company. No. 89,604; Dec. 31; Gaz. vol. 185; p. 1373.
Paper, Writing, printing, and tissue. C. H. Dexter. Nos. 88,555–6; Oct. 1; Gaz. vol. 183; p. 213.
Paper, Writing, printing, wrapping, &c. A. M. Eaton. No. 89,634; Dec. 31; Gaz. vol. 185; p. 1374.

Alphabetical list of trade-marks—Continued.

Papers and type-writer ribbons, Carbon and copying. Pencarbon Co. No. 87,003; June 18; Gaz. vol. 179; p. 848.
Papers, Building and sheathing. United Roofing and Manufacturing Co. No. 87,690; July 30; Gaz. vol. 180; p. 1390.
Papers, Building, roofing, sheathing, &c. The Hydrex Felt & Engineering Company. No. 88,298; Sept. 10; Gaz. vol. 182; p. 505.
Papers, Building, sheathing, roofing, &c. The Hydrex Felt & Engineering Company. No. 86,299; Apr. 30; Gaz. vol. 177; p. 1292.
Papers for photographs. Société Anonyme Utocolor. No. 87,672; July 30; Gaz. vol. 180; p. 1389.
Papers, Lining, wrapping, printing, and writing. Katahdin Pulp and Paper Company. No. 86,304; Apr. 30; Gaz. vol. 177; p. 1292.
Papers, Roofing and waterproof insulating. C. S. Bird. No. 86,876; June 11; Gaz. vol. 179; p. 567.
Papers, Wall-. F. C. Davidge. No. 86,285; Apr. 30; Gaz. vol. 177; p. 1291.
Papers, Wall-. Peerless Wall Paper Manufacturing Company. No. 86,328; Apr. 30; Gaz. vol. 177; p. 1293.
Papers, Waterproof sheathing and building. Barrett Mfg. Company. No. 84,717; Jan. 2; Gaz. vol. 174; p. 283.
Paralysis and nervous and mental diseases, Preparations for treating. J. D. Riedel Aktiengesellschaft. No. 88,640; Oct. 8; Gaz. vol. 183; p. 500.
Parchment-tissue. F. Euler & Co. No. 88,477; Sept. 24; Gaz. vol. 182; p. 966.
Paste, Alimentary. The Savarese Macaroni Co. No. 88,961; Oct. 29; Gaz. vol. 183; p. 1305.
Pastes, Label-. Ernecke & Salmstein Company. No. 89,179; Nov. 19; Gaz. vol. 184; p. 799.
Pastils made with salts extracted from natural mineral waters. Compagnie Fermière de l'Etablissement Thermal de Vichy. No. 87,429; July 16; Gaz. vol. 180; p. 874.
Patterns for wearing-apparel. L. S. Brainerd. No. 87,152; July 2; Gaz. vol. 180; p. 315.
Paving material, Bituminous. E. C. Wallace. No. 87,504; July 16; Gaz. vol. 180; p. 876.
Paving materials. The Jennison-Wright Co. No. 85,355; Feb. 13; Gaz. vol. 175; p. 538.
Peaches, Fresh. Romney-Mountain Orchard Company. No. 87,258; July 2; Gaz. vol. 180; p. 318.
Peanut-butter. B. J. Dolphin. No. 86,040; Apr. 9; Gaz. vol. 177; p. 519.
Peanuts. Ward-Young Mfg. Co. No. 89,725; Dec. 31; Gaz. vol. 185; p. 1376.
Peanuts and peanut-butter sandwiches, Salted. Ukaneat Specialty Company. No. 88,137; Aug. 27; Gaz. vol. 181; p. 1069.
Pearls. Low-Taussig-Karpeles Co. No. 87,547; July 23; Gaz. vol. 180; p. 1134.
Pearls, Artificial. The Lassner Company. No. 85,362; Feb. 13; Gaz. vol. 175; p. 538.
Pearls, Artificial. Joseph H. Meyer Bros. No. 89,282; Dec. 3; Gaz. vol. 185; p. 245.
Peat preparation. Strohmeyer & Arpe Company. No. 85,388; Feb. 13; Gaz. vol. 175; p. 539.
Pencils. A. W. Faber. No. 85,852; Mar. 26; Gaz. vol. 176; p. 1065.
Pencils. Schwanhäusser, Late Grossberger & Kurz. No. 86,243; Apr. 23; Gaz. vol. 177; p. 1040.
Pencils. A. W. Faber. No. 86,583; May 21; Gaz. vol. 178; p. 879.
Pencils. A. W. Faber. No. 86,898; June 11; Gaz. vol. 179; p. 568.
Pencils. American Lead Pencil Company. No. 87,308; July 9; Gaz. vol. 180; p. 597.
Pencils and copying-pencils, Lead-. R. Best. No. 88,660; Oct. 15; Gaz. vol. 183; p. 777.
Pencils and fountain-pens, Lead-. Eagle Pencil Company. No. 89,237; Dec. 3; Gaz. vol. 185; p. 243.
Pencils, Lead-. O. A. Weissenborn. Nos. 85,393–4; Feb. 13; Gaz. vol. 175; p. 539.
Pencils, Lead-. Eagle Pencil Company. No. 86,897; June 11; Gaz. vol. 179; p. 568.
Pencils, Lead-. E. Faber. No. 89,239; Dec. 3; Gaz. vol. 185; p. 243.
Pencils, Lead-. Eagle Pencil Company. No. 89,450; Dec. 17; Gaz. vol. 185; p. 823.
Pencils, Lead and colored. Schwarnhausser late Grossberger & Kurz. No. 84,878; Jan. 9; Gaz. vol. 174; p. 581.
Pencils, penholders, and rubber erasers. E. Faber. No. 86,291; Apr. 30; Gaz. vol. 177; p. 1292.
Pens. The Turner and Harrison Pen Manufacturing Company. No. 89,307; Dec. 3; Gaz. vol. 185; p. 245.
Pens and parts thereof, Fountain-. N. Shure Co. No. 87,815; Aug. 6; Gaz. vol. 181; p. 262.
Pens and parts thereof, Fountain-. Aikin-Lambert Company. No. 89,597; Dec. 31; Gaz. vol. 185; p. 1373.
Pens, Fountain-. L. Steinberg. No. 87,572; July 23; Gaz. vol. 180; p. 1134.
Pens, Gold and fountain. Esterbrook Steel Pen Mfg. Co. No. 87,530; July 23; Gaz. vol. 180; p. 1133.
Pens, pen-points, penholders, pencils, chalk, and crayons, Fountain-. Bryant, Gore & Bowman Sales Co. No. 87,154; July 2; Gaz. vol. 180; p. 315.
Pens, pencils, envelops, &c. Tower Manufacturing & Novelty Co. No. 89,306; Dec. 3; Gaz. vol. 185; p. 245.
Pens, pencils, writing paper and tablets. The United News & Stationery Co. No. 86,563; May 14; Gaz. vol. 178; p. 588.
Pens, Steel and metallic. William Mitchell (Pens) Limited. No. 87,787; Aug. 6; Gaz. vol. 181; p. 261.
Pens, Writing-. Esterbrook Steel Pen Man'f'g. Co. Nos. 87,184–5; July 2; Gaz. vol. 180; p. 316.
Pepper, allspice, cloves, ginger, canned goods, &c. Missouri Valley Grocery Co. No. 87,235; July 2; Gaz. vol. 180; p. 318.
Percales and shirtings. Garner Print Works & Bleachery. No. 87,442; July 16; Gaz. vol. 180; p. 874.
Percolators. The Republic Metalware Company. No. 86,087; Apr. 9; Gaz. vol. 177; p. 521.
Perfume. J. Tetlow. No. 87,823; Aug. 6; Gaz. vol. 181; p. 262.
Perfume and talcum powder. Smith, Kline & French Company. No. 87,013; June 18; Gaz. vol. 179; p. 848.
Perfumes. F. S. Mason. No. 85,601; Feb. 27; Gaz. vol. 175; p. 1094.
Perfumes. Robinson Bros. & Company. No. 86,456; May 7; Gaz. vol. 178; p. 316.
Perfumes. Colgate & Co. No. 89,226; Dec. 3; Gaz. vol. 185; p. 243.
Perfumes. Richard Hudnut. No. 89,368; Dec. 10; Gaz. vol. 185; p. 520.
Perfumes and sachet-powders. Richard Hudnut. No. 88,878; Oct. 29; Gaz. vol. 183; p. 1302.
Perfumes and toilet water. The Andrew Jergens Co. No. 85,134; Jan. 30; Gaz. vol. 174; p. 1213.
Perfumes and toilet waters. Marshall Field & Company. No. 89,639; Dec. 31; Gaz. vol. 185; p. 1374.
Perfumes, face-paints, and rouges. E. Wertheimer & Cie. No. 86,649; May 21; Gaz. vol. 178; p. 881.
Perfumes, face-powder, and remedy for chapped skin. E. Wertheimer & Cie. No. 88,540; Sept. 24; Gaz. vol. 182; p. 968.
Perfumes, sachet-powder, face-powder, &c. Richard Hudnut. No. 88,882; Oct. 29; Gaz. vol. 183; p. 1302.
Perfumes, sachet-powder, toilet water, &c. Richard Hudnut. No. 88,881; Oct. 29; Gaz. vol. 183; p. 1302.
Perfumes, toilet water, face-cream, &c. Paul Rieger & Co. No. 86,455; May 7; Gaz. vol. 178; p. 316.
Perfumes, toilet water, sachet and face powders. Hedden & Eberhardt. No. 87,208; July 2; Gaz. vol. 180; p. 317.
Perfumes, toilet waters, &c. Richard Hudnut. No. 88,877; Oct. 29; Gaz. vol. 183; p. 1302.
Perfumes, toilet waters and creams, and talcum powder. C. B. Woodworth Sons Co. No. 87,580; July 23; Gaz. vol. 180; p. 1135.
Perfumes, toilet waters, and sachets. Richard Hudnut. No. 88,183; Sept. 3; Gaz. vol. 182; p. 244.
Perfumes, toilet waters, sachets, &c. Samurai Perfume Co. No. 87,259; July 2; Gaz. vol. 180; p. 318.
Perfumes, toilet waters, sachet, face, and talcum powder. Charles Hedden Incorporated. No. 88,875; Oct. 29; Gaz. vol. 183; p. 1302.
Perfumery. Erste Karlsruher Parfümerie & Toiletteseifen-Fabrik E. Wolff & Sohn. No. 85,570; Feb. 27; Gaz. vol. 175; p. 1094.
Perfumery. Alfred Wright Perfumer. Nos. 88,544–5; Sept. 24; Gaz. vol. 182; p. 968.
Perfumery. Alfred Wright Perfumer Inc. No. 88,990; Oct. 29; Gaz. vol. 183; p. 1305.
Perfumery ingredients. Ungerer & Co. No. 87,577; July 23; Gaz. vol. 180; p. 1135.
Perfumery, toilet and sachet powders. L. T. Piver & Cie. No. 85,713; Mar. 5; Gaz. vol. 176; p. 271.
Perfumery, toilet water, and face-powders. Peninsular Chemical Co. No. 88,519; Sept. 24; Gaz. vol. 182; p. 967.
Periodical, Monthly. The Pedic Society of the State of New York. No. 89,496; Dec. 17; Gaz. vol. 185; p. 825.
Periodical, Weekly. Textile Publishing Company. No. 85,835; Mar. 19; Gaz. vol. 176; p. 746.
Periodical, Weekly. Hill Publishing Company. No. 85,863; Mar. 26; Gaz. vol. 176; p. 1065.
Periodical, Weekly. B. W. Cramer. No. 87,324; July 9; Gaz. vol. 180; p. 597.
Periodicals. Priscilla Publishing Co. No. 88,947; Oct. 29; Gaz. vol. 183; p. 1304.
Periodicals, Monthly. Symphony Pub. Co. No. 86,634; May 21; Gaz. vol. 178; p. 881.
Periodicals or newspapers. International Catholic Truth Society. No. 89,369; Dec. 10; Gaz. vol. 185; p. 520.
Periodicals, Weekly. White Rats Actors' Union of America. No. 84,773; Jan. 2; Gaz. vol. 174; p. 285.
Petroleum. Standard Oil Co. of New York. Nos. 87,675–6; July 30; Gaz. vol. 180; p. 1389.
Petroleum. Torres, Lagarde & Co. No. 89,209; Nov. 19; Gaz. vol. 184; p. 800.
Petroleum distillates. Quixtart Chemical Co. No. 88,114; Aug. 27; Gaz. vol. 181; p. 1069.
Petroleum for illuminating, heating, and power purposes. Standard Oil Company of New York. No. 87,117; June 25; Gaz. vol. 179; p. 1103.
Petroleum for illuminating, heating, and power purposes. Standard Oil Company of New York. No. 87,278; July 2; Gaz. vol. 180; p. 319.

Alphabetical list of trade-marks—Continued.

Petroleum, Refined. Standard Oil Co. of New York. No. 88,127; Aug. 27; Gaz. vol. 181; p. 1069.
Petroleum, Refined. West India Oil Company. No. 88,392; Sept. 10; Gaz. vol. 182; p. 507.
Petroleum, Residue from distillation of. Derevoise-Anderson Company. No. 85,087; Jan. 30; Gaz. vol. 174; p. 1212.
Petticoats. National Cloak & Suit Co. No. 86,321; Apr. 30; Gaz. vol. 177; p. 1292.
Pharmaceutical preparation, Certain. C. R. Boyd. No. 86,126; Apr. 16; Gaz. vol. 177; p. 765.
Pharmaceutical preparation, Certain. A. Loeser. No. 86,227; Apr. 23; Gaz. vol. 177; p. 1040.
Pharmaceutical preparation, Certain. E. Ziegler. No. 86,653; May 21; Gaz. vol. 178; p. 881.
Pharmaceutical preparation, Certain. M. M. Feinberg. No. 87,059; June 25; Gaz. vol. 179; p. 1102.
Pharmaceutical preparation for use in certain diseases. M. Robin. No. 88,592; Oct. 1; Gaz. vol. 183; p. 214.
Pharmaceutical preparations. Actien-Gesellschaft für Anilin-Fabrikation. No. 87,135; July 2; Gaz. vol. 180; p. 315.
Pharmaceutical preparations. G. L. Nicolaus. No. 88,698; Oct. 15; Gaz. vol. 183; p. 778.
Pharmaceutical preparations, Certain. W. B. Force. No. 85,856; Mar. 26; Gaz. vol. 176; p. 1065.
Pharmaceutical preparations, Certain. Henry's Chemical Co. No. 86,058; Apr. 9; Gaz. vol. 177; p. 520.
Pharmaceutical preparations, Certain. The Lewis Bear Drug Company. No. 86,417; May 7; Gaz. vol. 178; p. 315.
Pharmaceutical preparations, Certain. W. M. Willett. No. 86,493; May 7; Gaz. vol. 178; p. 317.
Pharmaceutical preparations, Certain. C. Hill. No. 86,592; May 21; Gaz. vol. 178; p. 879.
Pharmaceutical preparations, Certain. The W. L. Milner & Company. No. 86,815; June 4; Gaz. vol. 179; p. 282.
Pharmaceutical preparations, Certain. E. Molwitz. No. 86,817; June 4; Gaz. vol. 179; p. 282.
Pharmaceutical preparations, Certain. A. J. White. No. 86,850; June 4; Gaz. vol. 179; p. 283.
Pharmaceutical preparations, Certain. D. E. Beecham. No. 86,975; June 18; Gaz. vol. 179; p. 847.
Pharmaceutical preparations, Certain. Leggett & Brother. No. 86,997; June 18; Gaz. vol. 179; p. 847.
Pharmaceutical preparations, Certain. Society of Chemical Industry in Basle. Nos. 87,015–16; June 18; Gaz. vol. 179; p. 848.
Pharmaceutical preparations, Certain. B. W. Moe. No. 87,091; June 25; Gaz. vol. 179; p. 1103.
Pharmaceutical preparations, Certain. P. P. Kirchhofer. No. 87,345; July 9; Gaz. vol. 180; p. 598.
Pharmaceutical preparations, Certain. A. Armor. No. 87,515; July 23; Gaz. vol. 180; p. 1133.
Pharmaceutical preparations, Certain. C. E. Ising. No. 87,540; July 23; Gaz. vol. 180; p. 1134.
Pharmaceutical preparations, Certain. Fairchild Bros. & Foster. No. 89,241; Dec. 3; Gaz. vol. 185; p. 244.
Pharmaceutical preparations, Certain. Onola Company. No. 89,289; Dec. 3; Gaz. vol. 185; p. 245.
Pharmaceutical preparations, Certain named. F. A. Luyties. No. 88,505; Sept. 24; Gaz. vol. 182; p. 967.
Pharmaceutical product. Certain named. Society of Chemical Industry in Basle. No. 88,376; Sept. 10; Gaz. vol. 182; p. 507.
Pharmaceutical products, Certain. E. R. Squibb & Sons. No. 86,107; Apr. 9; Gaz. vol. 177; p. 521.
Phonographs and parts thereof. Wizard Phonograph Co. No. 87,507; July 16; Gaz. vol. 180; p. 876.
Phonographs and parts thereof and appurtenances thereto. International Phonograph Company. No. 88,541; Sept. 24; Gaz. vol. 182; p. 968.
Phosphate, Grape-fruit. Gra-Fru Company. No. 88,080; Aug. 27; Gaz. vol. 181; p. 1068.
Photograph-frames. M. W. Carr & Co. No. 86,381; May 7; Gaz. vol. 178; p. 314.
Photographs, Chemicals for treating. Eastman Kodak Company. No. 86,393; May 7; Gaz. vol. 178; p. 314.
Photographic and kinematographic dry-plates and paper. J. E. Brandenberger. No. 85,941; Apr. 2; Gaz. vol. 177; p. 235.
Photographic apparatus and supplies, Certain named. L. Gevaret & Co. No. 89,456; Dec. 17; Gaz. vol. 185; p. 824.
Photographic cameras. J. H. Dolby. No. 86,579; May 21; Gaz. vol. 178; p. 879.
Photographic chemicals. Société Anonyme des Celluloses Planchon. No. 86,835; June 4; Gaz. vol. 179; p. 283.
Photographic developing-paper. Ansco Company. No. 86,265; Apr. 30; Gaz. vol. 177; p. 1291.
Photographic materials and supplies. H. J. Brady. No. 88,163; Sept. 3; Gaz. vol. 182; p. 243.
Photographic mounts. A. M. Collins Manufacturing Company. No. 89,444; Dec. 17; Gaz. vol. 185; p. 823.
Photographic supplies. Eastman Kodak Co. No. 85,423; Feb. 20; Gaz. vol. 175; p. 837.
Piano-player actions. Henley-Waite Orpheola Company. No. 89,557; Dec. 24; Gaz. vol. 185; p. 1050.
Piano-players and music for the same. Aeolian Company. No. 84,796; Jan. 9; Gaz. vol. 174; p. 579.
Pianos. Sohmer & Company. No. 85,382; Feb. 13; Gaz. vol. 175; p. 539.
Pianos. Eilers Music Company. No. 85,652; Mar. 5; Gaz. vol. 176; p. 269.
Pianos. Sohmer & Company. No. 85,691; Mar. 5; Gaz. vol. 176; p. 270.
Pianos. The Rudolph Wurlitzer Co. No. 86,113; Apr. 9; Gaz. vol. 177; p. 521.
Pianos. The Rudolph Wurlitzer Co. No. 86,553; May 14; Gaz. vol. 178; p. 588.
Pianos. Autopiano Company. No. 87,406; July 16; Gaz. vol. 180; p. 873.
Pianos. C. Kurtzmann & Company. No. 88,311; Sept. 10; Gaz. vol. 182; p. 505.
Pianos. Krakauer Bros. No. 89,273; Dec. 3; Gaz. vol. 185; p. 244.
Pianos. Brambach Piano Company. No. 89,438; Dec. 17; Gaz. vol. 185; p. 823.
Pianos. Chickering Brothers. No. 89,442; Dec. 17; Gaz. vol. 185; p. 823.
Pianos. Lyon & Healy. No. 89,566; Dec. 24; Gaz. vol. 185; p. 1050.
Pianos and actions therefor. Milton Piano Company. No. 87,234; July 2; Gaz. vol. 180; p. 318.
Pianos and organs. People's Outfitting Company. No. 87,004; June 18; Gaz. vol. 179; p. 848.
Pianos and piano-players. C. Kohler. No. 85,870; Mar 26; Gaz. vol. 176; p. 1065.
Pianos and piano-players. The Columbus Piano Co. No. 86,575; May 21; Gaz. vol. 178; p. 879.
Pianos and piano-players. F. Rosenstern & Co. No. 87,658; July 30; Gaz. vol. 180; p. 1389.
Pianos and piano-players. Geo. P. Bent Company. No. 88,457; Sept. 24; Gaz. vol. 182; p. 965.
Pianos and player-pianos. The Regal Piano & Player Co. No. 85,377; Feb. 13; Gaz. vol. 175; p. 539.
Pianos and player-pianos. Cable & Sons. No. 85,646; Mar. 5; Gaz. vol. 176; p. 269.
Pianos and player-pianos. The Baldwin Company. Nos. 89,216–17; Dec. 3; Gaz. vol. 185; p. 243.
Pianos, Autopneumatic player-. The Baldwin Company. No. 89,434; Dec. 17; Gaz. vol. 185; p. 823.
Pianos, Interior-player. Geo. P. Bent Company. No. 89,436; Dec. 17; Gaz. vol. 185; p. 823.
Pianos, &c., operated in connection with phonographs. Aeolian Company. No. 88,654; Oct. 15; Gaz. vol. 183; p. 777.
Pianos, organs, player-pianos, &c. Krell French Piano Company. No. 86,306; Apr. 30; Gaz. vol. 177; p. 1292.
Pianos, piano-players, and note-sheets. American Piano Company. No. 87,706; Aug. 6; Gaz. vol. 181; p. 259.
Pianos, piano-players, and note-sheets for the same. American Piano Co. No. 87,968; Aug. 20; Gaz. vol. 181; p. 815.
Pianos, Player-. A. M. McPhail Piano Co. No. 86,608; May 21; Gaz. vol. 178; p. 880.
Pianos, Player-. C. A. Ahlstrom. No. 86,769; June 4; Gaz. vol. 179; p. 281.
Pianofortes, &c., Steel wire for. Felten & Guilleaume Carlswerk Actien-Gesellschaft. No. 89,349; Dec. 10; Gaz. vol. 185; p. 520.
Pickles. Crosse & Blackwell. No. 85,798; Mar. 19; Gaz. vol. 176; p. 745.
Pickles. Alart & McGuire Company. No. 87,026; June 25; Gaz. vol. 179; p. 1101.
Pickles and malt vinegar. Crosse & Blackwell. No. 84,942; Jan. 16; Gaz. vol. 174; p. 823.
Picture apparatus and supplies, Moving-. Multi-Speed Shutter Company. No. 88,633; Oct. 8; Gaz. vol. 183; p. 499.
Picture-exhibiting apparatus and films, Motion-. Thomas A. Edison, Incorporated. No. 89,542; Dec. 24; Gaz. vol. 185; p. 1049.
Picture films, Exposed motion-. Ammex Motion Picture Manufacturing Company. No. 87,969; Aug. 20; Gaz. vol. 181; p. 815.
Picture films, Moving-. Eclair Film Company. No. 88,171; Sept. 3; Gaz. vol. 182; p. 243.
Picture films, Moving-. Stone Motion Picture Company. No. 89,074; Nov. 5; Gaz. vol. 184; p. 283.
Picture films, Moving-. American Film Manufacturing Company. No. 89,078; Nov. 12; Gaz. vol. 184; p. 545.
Picture films, Moving-. Societe Francaise des Films et Cinematographs Eclair. No. 89,300; Dec. 3; Gaz. vol. 185; p. 245.
Picture films, Moving-. Societe Francaise des Films et Cinematographs Eclair. No. 89,385; Dec. 10; Gaz. vol. 185; p. 521.
Picture-frames. Pacific Novelty Company. No. 88,109; Aug. 27; Gaz. vol. 181; p. 1069.
Picture machines, Moving-. Palmer Motion Picture Company. No. 85,878; Mar. 26; Gaz. vol. 176; p. 1066.
Picture machines, Moving-. Picturegraph Company. No. 86,158; Apr. 16; Gaz. vol. 177; p. 766.
Pictures and illustrations published serially. The New York Herald Company. Nos. 84,853–69; Jan. 9; Gaz. vol. 174; pp. 580–1.
Pictures and illustrations published serially. The New York Herald Company. Nos. 84,991–2; Jan. 16; Gaz. vol. 174; p. 825.

Alphabetical list of trade-marks—Continued.

Pictures, illustrations, stories, &c., published serially. Ale-Ting Service. No. 88,655; Oct. 15; Gaz. vol. 183; p. 777.
Pictures, Transfer-. Nürnberger Abziehbilder-Fabrik Troeger & Bücking. No. 87,098; June 25; Gaz. vol. 179; p. 1103.
Pie-filling preparation, Lemon-. H. Harper. No. 88,279; Sept. 10; Gaz. vol. 182; p. 504.
Pie-fillings. Jos. Middleby, Jr., Inc. No. 85,463; Feb. 20; Gaz. vol. 175; p. 839.
Pie-fillings. Jos. Middleby, Jr., Inc. No. 87,903; Aug. 13; Gaz. vol. 181; p. 537.
Piece goods. H. V. T. Schill Co. No. 89,583; Dec. 24; Gaz. vol. 185; p. 1050.
Piece goods and handkerchiefs. T. A. Harris. No. 88,084; Aug. 27; Gaz. vol. 181; p. 1068.
Piece goods, carpets, and rugs. Carlisle, Crocker & Co. No. 87,039; June 25; Gaz. vol. 179; p. 1101.
Piece goods, Certain. G. J. Geer. Nos. 86,135–6; Apr. 16; Gaz. vol. 177; p. 765.
Piece goods, Certain. Kent Manufacturing Company. No. 86,225; Apr. 23; Gaz. vol. 177; p. 1039.
Piece goods, Certain. W. Oddy. No. 87,099; June 25; Gaz. vol. 179; p. 1103.
Piece goods, Certain kinds of. Collins & Aikman Co. No. 88,061; Aug. 27; Gaz. vol. 181; p. 1067.
Piece goods, Certain named. L. Mondon. No. 89,409; Dec. 10; Gaz. vol. 185; p. 521.
Piece goods of certain materials and mixtures thereof. The H. B. Claflin Company. No. 88,733; Oct. 22; Gaz. vol. 183; p. 1027.
Pill, Laxative. The Victoria Cream Co. No. 88,646; Oct. 8; Gaz. vol. 183; p. 500.
Pill, Laxative. A. Saxlehner. No. 89,705; Dec. 31; Gaz. vol. 185; p. 1376.
Pills. C. F. York. No. 85,538; Feb. 20; Gaz. vol. 175; p. 841.
Pills. C. F. York. No. 85,719; Mar. 5; Gaz. vol. 176; p. 271.
Pills. Dr. J. H. Schenck & Son. No. 88,524; Sept. 24; Gaz. vol. 182; p. 967.
Pills. I. H. Arnold. No. 88,993; Nov. 5; Gaz. vol. 184; p. 281.
Pills and dyspepsia-tonic, Laxative. W. J. Leib. No. 87,226; July 2; Gaz. vol. 180; p. 317.
Pills, Cathartic. Lanman & Kemp. No. 85,141; Jan. 30; Gaz. vol. 174; p. 1213.
Pills, face-cream, liniment, salves, &c. M. Halpern. No. 84,908; Jan. 9; Gaz. vol. 174; p. 582.
Pills for female complaints. H. B. Taylor. No. 87,574; July 23; Gaz. vol. 180; p. 1134.
Pills, Laxative. W. T. Hanson Co. No. 86,987; June 18; Gaz. vol. 179; p. 847.
Pillows. A. Weigell & Son. No. 87,387; July 9; Gaz. vol. 180; p. 599.
Pimentos. Wieland Bros. Nos. 88,437–8; Sept. 17; Gaz. vol. 182; p. 718.
Pin cups and trays, Crockery. Tower Manufacturing & Novelty Co. No. 86,964; June 11; Gaz. vol. 179; p. 570.
Pins, Safety-. Oakville Company. No. 85,273; Feb. 6; Gaz. vol. 175; p. 261.
Pins, Safety-. Oakville Company. No. 85,275; Feb. 6; Gaz. vol. 175; p. 261.
Pins, Safety-. Oakville Company. Nos. 85,277–81; Feb. 6; Gaz. vol. 175; p. 261.
Pins, Safety-. American Pin Company. No. 85,638; Mar. 5; Gaz. vol. 176; p. 269.
Pins, Toilet-. Oakville Company. No. 85,274; Feb. 6; Gaz. vol. 175; p. 261.
Pins, Toilet-. Oakville Company. No. 85,276; Feb. 6; Gaz. vol. 175; p. 261.
Pins, Toilet-. Tubbs, Lewis & Co. No. 88,809; Oct. 22; Gaz. vol. 183; p. 1029.
Pins, Toilet and safety. Oakville Company. No. 85,676; Mar. 5; Gaz. vol. 176; p. 270.
Pineapple-jack. W. H. Hellen. No. 85,747; Mar. 12; Gaz. vol. 176; p. 521.
Pineapples, Fresh. Kopf Nursery & Realty Co. No. 86,663; May 21; Gaz. vol. 178; p. 881.
Pineapples, oranges, grape-fruit, and lemons. The Standard Fruit Co. No. 85,776; Mar. 12; Gaz. vol. 176; p. 522.
Pipe-covering, Asbestos. H. W. Johns-Manville Co. No. 84,833; Jan. 9; Gaz. vol. 174; p. 580.
Pipe-fittings. Florence Iron Works. No. 89,243; Dec. 3; Gaz. vol. 185; p. 244.
Pipe-hangers. L. A. Carpenter Press Metal Co. No. 87,851; Aug. 13; Gaz. vol. 181; p. 535.
Pipes, cigar and cigarette holders, Tobacco-. Marechal, Ruchon & Co. No. 86,421; May 7; Gaz. vol. 178; p. 315.
Pipes, culverts, and gutters, Metal. American Metal Stamping Company. No. 87,586; July 30; Gaz. vol. 180; p. 1387.
Pipes, Smoking-. C. Hirsch. No. 85,965; Apr. 2; Gaz. vol. 177; p. 236.
Pipes, Tobacco-. Reiss Bros. & Co. Nos. 85,004–5; Jan. 16; Gaz. vol. 174; p. 825.
Pipes, Tobacco-. Sears, Roebuck and Co. No. 85,833; Mar. 19; Gaz. vol. 176; p. 746.
Pipes, Tobacco-. Metropolitan Tobacco Co. No. 86,429; May 7; Gaz. vol. 178; p. 315.
Pipes, Tobacco-. Phoenix-American Pipe Works. No. 86,445; May 7; Gaz. vol. 178; p. 315.
Pipes, tubes, and casings. National Tube Company. No. 88,017; Aug. 20; Gaz. vol. 181; p. 816.
Pipes, tubes, and conduits. James McDougall Limited. No. 86,796; June 4; Gaz. vol. 179; p. 281.
Pistols, revolvers, shotguns, and rifles. C. M. McClung & Co. Nos. 86,425–6; May 7; Gaz. vol. 178; p. 315.
Pistols, rifles, guns, and cartridges. Anciens Établissements Pieper Ste. Ane. No. 84,806; Jan. 9; Gaz. vol. 174; p. 579.
Pitch. Barrett Manufacturing Company. No. 85,408; Feb. 20; Gaz. vol. 175; p. 837.
Pitch. Warren Chemical & Manufacturing Company. Nos. 85,529–30; Feb. 20; Gaz. vol. 175; p. 840.
Pitch. Barrett Manufacturing Company. No. 88,452; Sept. 24; Gaz. vol. 182; p. 965.
Pitch, tar, and asphalt. Barrett Manufacturing Company. No. 86,773; June 4; Gaz. vol. 179; p. 281.
Plants, Strawberry-. R. M. Kellogg Company. No. 86,713; May 28; Gaz. vol. 178; p. 1148.
Plasters, Corn and bunion. Bauer & Black. No. 87,313; July 9; Gaz. vol. 180; p. 597.
Plastic compositions. Adams and Stinebaugh. No. 87,136; July 2; Gaz. vol. 180; p. 315.
Plastic compound. H. B. Manissadjian. No. 89,463; Dec. 17; Gaz. vol. 185; p. 824.
Plastic material, Solid. Syrolit Limited. No. 87,820; Aug. 6; Gaz. vol. 181; p. 262.
Plows. Starke's Dixie Plow Works. No. 85,513; Feb. 20; Gaz. vol. 175; p. 840.
Plows. Starke's Dixie Plow Works. No. 87,119; June 25; Gaz. vol. 179; p. 1103.
Plows. Starke's Dixie Plow Works. No. 87,677; July 30; Gaz. vol. 180; p. 1389.
Plows. The Collins Company. No. 89,009; Nov. 5; Gaz. vol. 184; p. 281.
Plows and certain named parts thereof. S. R. White's Sons. No. 88,817; Oct. 22; Gaz. vol. 183; p. 1029.
Plows and parts thereof. The Collins Company. Nos. 87,978–9; Aug. 20; Gaz. vol. 181; p. 815.
Plows and parts thereof. The Collins Company. No. 87,981; Aug. 20; Gaz. vol. 181; p. 815.
Plows, plowshares, moldboards, &c. S. R. White's Sons. No. 89,170; Nov. 12; Gaz. vol. 184; p. 547.
Plumbers' supplies, Certain. National Committee of the Confederated Supply Associations. No. 86,078; Apr. 9; Gaz. vol. 177; p. 520.
Plumbers' supplies, Certain. American Pin Company. No. 86,198; Apr. 23; Gaz. vol. 177; p. 1039.
Plumbing and steam-fitting supplies, Certain. H. Mueller Manufacturing Company. No. 85,269; Feb. 6; Gaz. vol. 175; p. 260.
Plumbing and steam-fitting supplies, Certain named. B. E. Van Auken. No. 87,691; July 30; Gaz. vol. 180; p. 1390.
Pocket-books. Jameson & Metzler. No. 85,130; Jan. 30; Gaz. vol. 174; p. 1213.
Polish, Liquid. Raimes & Co. No. 87,804; Aug. 6; Gaz. vol. 181; p. 262.
Polishes. Carbon Products Company. No. 86,695; May 28; Gaz. vol. 178; p. 1147.
Polishes, Stove, shoe, and metal. Carbon Products Company. No. 86,512; May 14; Gaz. vol. 178; p. 587.
Polishing-cloth. J. L. Connor. No. 89,628; Dec. 31; Gaz. vol. 185; p. 1374.
Polishing-cloths. Pittsburgh Manufacturers Sales Co. No. 86,447; May 7; Gaz. vol. 178; p. 315.
Polishing-cloths. The Silvex Company. Nos. 87,114–15; June 25; Gaz. vol. 179; p. 1103.
Polishing-cloths. Auburn Specialties Company. No. 87,710; Aug. 6; Gaz. vol. 181; p. 259.
Polishing preparation. H. L. Friedlander. No. 87,742; Aug. 6; Gaz. vol. 181; p. 260.
Popcorn. F. W. Noble. No. 84,870; Jan. 9; Gaz. vol. 174; p. 581.
Popcorn. Hart & Howell. No. 88,180; Sept. 3; Gaz. vol. 182; p. 244.
Popcorn and foam candy. The Snyder-Chaffee Co. No. 86,341; Apr. 30; Gaz. vol. 177; p. 1293.
Popcorn candy. Shotwell Mfg. Co. No. 89,382; Dec. 10; Gaz. vol. 185; p. 521.
Popcorn product. Collins McCarthy Candy Co. No. 89,010; Nov. 5; Gaz. vol. 184; p. 281.
Popcorn, Sweetened. Camp Chocolate Co. No. 85,728; Mar. 12; Gaz. vol. 176; p. 521.
Pork, Minced. L. Burk. No. 86,275; Apr. 30; Gaz. vol. 177; p. 1291.
Pork preparation. W. Moland's Sons. No. 84,846; Jan. 9; Gaz. vol. 174; p. 580.
Pork roll. The Taylor Provision Company. No. 86,177; Apr. 16; Gaz. vol. 177; p. 767.
Postal cards. Frank W. Swallow Post Card Co. No. 85,200; Jan. 30; Gaz. vol. 174; p. 1215.
Pot-lid handles. Otto Kampfe Mfg. Co. No. 85,587; Feb. 27; Gaz. vol. 175; p. 1094.
Potatoes. W. C. Kirkman & Son. No. 85,662; Mar. 5; Gaz. vol. 176; p. 269.

Alphabetical list of trade-marks—Continued.

Poultry-litter W. Durbrow. No. 89,449; Dec. 17; Gaz. vol. 185; p. 823.
Powder and case-hardening compound, Hardening-. The Rowe Ring-Point Company. No. 88,702; Oct. 15; Gaz. vol. 183; p. 778.
Powder and cream, hair tonic and dye, Face. Rotkowitz Bros. No. 84,754; Jan. 2; Gaz. vol. 174; p. 284.
Powder, Blasting-. Waclark Titanite Explosive Company. No. 86,647; May 21; Gaz. vol. 178; p. 881.
Powder, cream, lotion, and bath tablets, Foot. Cummings Manufacturing Company. No. 86,039; Apr. 9; Gaz. vol. 177; p. 519.
Powder, Face-. Dr. Gortz Chemical Company. No. 86,216; Apr. 23; Gaz. vol. 177; p. 1039.
Powder, Foot-. B. W. Moe. No. 87,092; June 25; Gaz. vol. 179; p. 1103.
Powder, Foot-. J. W. Branicki. No. 88,663; Oct. 15; Gaz. vol. 183; p. 777.
Powder for absorbing perspiration. F. Mantovani. No. 86,812; June 4; Gaz. vol. 179; p. 282.
Powder for the treatment of the skin. J. M. Snitzler. No. 87,569; July 23; Gaz. vol. 180; p. 1134.
Powder, Gun-. Curtis's & Harvey. No. 88,247; Sept. 10, Gaz. vol. 182; p. 503.
Powder, Insect-. Buhach Producing and Manufacturing Company. No. 88,055; Aug. 27; Gaz. vol. 181; p. 1067.
Powder, perfume, toilet water, &c. The Citizens' Wholesale Supply Co. No. 89,338; Dec. 10; Gaz. vol. 185; p. 519.
Powder, Roach-. L. A. Kaas. No. 86,809; June 4; Gaz. vol. 179; p. 282.
Powder, rouge, and face-cream, Tooth and talcum. Rubisco Company. No. 86,241; Apr. 23; Gaz. vol. 177; p. 1040.
Powder, sachet-powders, cold-creams, and perfumes, Toilet. William H. Brown & Bro. Co. No. 89,092; Nov. 12; Gaz. vol. 184; p. 545.
Powder, Talcum. G. C. Wilson. No. 85,397; Feb. 13; Gaz. vol. 175; p. 539.
Powder, Talcum. A. P. Babcock Company. No. 88,450; Sept. 24; Gaz. vol. 182; p. 965.
Powder, Talcum. A. C. Manganiello. No. 89,406; Dec. 1; Gaz. vol. 185; p. 521.
Powder, Toilet. Arthur Chemical Co. No. 85,054; Jan. 30; Gaz. vol. 174; p. 1211.
Powder, Toilet. W. M. Willett. No. 88,604; Oct. 1; Gaz. vol. 183; p. 214.
Powder, toilet water, and rouge, Talcum. E. R. Trevaskis. No. 86,483; May 7; Gaz. vol. 178; p. 316.
Powder, Tooth-. A. E. Drucker. No. 84,730; Jan. 2; Gaz. vol. 174; p. 283.
Powder, Tooth-. M. Manoogian. No. 86,420; May 7; Gaz. vol. 178; p. 315.
Powder, Wound-. Fabrik pharmaceutischer Präparate Karl Engelhard. No. 86,982; June 18; Gaz. vol. 179; p. 847.
Powders and pastes, Tooth. The Gifford Chemical Company. No. 85,576; Feb. 27; Gaz. vol. 175; p. 1094.
Powders and polishes, gum-tonics, and mouth-washes, Tooth. J. J. Sarrazin. No. 88,595; Oct. 1; Gaz. vol. 183; p. 214.
Powders, cold-creams, and perfumes, Talcum and sachet. Wm. H. Brown & Bro. Co. No. 89,221; Dec. 3; Gaz. vol. 185; p. 243.
Powders, Condition-. Ackerman-Stewart Drug Co. No. 84,923; Jan. 16; Gaz. vol. 174; p. 823.
Powders, Face-. J. V. Daniels. No. 87,859; Aug. 13; Gaz. vol. 181; p. 535.
Powders, Foot-. G. A. Reynolds. No. 86,239; Apr. 23; Gaz. vol. 177; p. 1040.
Powders, Foot-. E. C. Wach. No. 89,311; Dec. 3; Gaz. vol. 185; p. 246.
Powders, Headache-. The F. A. Weck Co. No. 86,847; June 4; Gaz. vol. 179; p. 283.
Powders, Headache-. O. Bergmeyer. No. 89,616; Dec. 31; Gaz. vol. 185; p. 1373.
Powders, Medicated, soluble, &c., toilet. American Ammone Company. No. 88,824; Oct. 29; Gaz. vol. 183; p. 1301.
Powders, Talcum. A. A. Vantine & Co. No. 85,206; Jan. 30; Gaz. vol. 174; p. 1215.
Powders, Toilet. T. H. Froehlich. No. 86,398; May 7; Gaz. vol. 178; p. 314.
Powders, Toilet. Ed Planté, sucesores Francisco Sabio y Cia. No. 86,448; May 7; Gaz. vol. 178; p. 315.
Powders, Toilet. W. E. Pentz. No. 87,477; July 16; Gaz. vol. 180; p. 875.
Powders, Toilet. E. Wertheimer & Cie. No. 89,313; Dec. 3; Gaz. vol. 185; p. 246.
Precious metal, Certain articles electrically treated with. Electrolytic Art Metal Company. No. 85,567; Feb. 27; Gaz. vol. 175; p. 1093.
Precious metal, Certain named articles made of any. W. H. Carroll. No. 89,007; Nov. 5; Gaz. vol. 184; p. 281.
Precious, semiprecious, and rhine stones. L. & O. Holub. No. 85,441; Feb. 20; Gaz. vol. 175; p. 838.
Precious stones, pearls, pendants, &c. E. Husson. No. 88,493; Sept. 24; Gaz. vol. 182; p. 966.
Preparation for preventing hardening of the arteries. Carl Weinreben Fabrik Pharmaceutischer Präparate. No. 86,258; Apr. 23; Gaz. vol. 177; p. 1040.
Preparation for stomach disorders, headache, nervousness, &c. F. M. Criswell. No. 87,046; June 25; Gaz. vol. 179; p. 1101.
Preparation for the skin. Madam Marie. No. 85,825; Mar. 19; Gaz. vol. 176; p. 746.
Preparation for the skin. C. E. Duck. No. 86,391; May 7; Gaz. vol. 178; p. 314.
Preparation for the treatment of affections of the eye. J. F. Ballard. No. 87,713; Aug. 6; Gaz. vol. 181; p. 259.
Preparation for the treatment of certain named diseases. J. C. Abernethy. No. 89,593; Dec. 31; Gaz. vol. 185; p. 1373.
Preparation for the treatment of gonorrhea. I. B. Kronberger. No. 88,094; Aug. 27; Gaz. vol. 181; p. 1068.
Preparation for the treatment of wounds. Kalle & Co. Aktiengesellschaft. No. 89,119; Nov. 12; Gaz. vol. 184; p. 546.
Preparations for the relief of foot troubles. A. L. Fritch. No. 85,103; Jan. 30; Gaz. vol. 174; p. 1212.
Preserves, Spiced fruit. Gordon & Dilworth. No. 87,331; July 9; Gaz. vol. 180; p. 597.
Pressure-gages. The Allen Auto Specialty Co. No. 88,441; Sept. 24; Gaz. vol. 182; p. 965.
Pressure-regulators, water-columns, cocks, &c. The Lunkenheimer Company. No. 89,279; Dec. 3; Gaz. vol. 185; p. 245.
Preventive for San Jose scale, borers, &c. W. Striewig. No. 89,713; Dec. 31; Gaz. vol. 185; p. 1376.
Printers' rollers. H. M. Bingham. Nos. 86,691–2; May 28; Gaz. vol. 178; p. 1147.
Printing-machines. Printograph Sales Company. No. 89,698; Dec. 31; Gaz. vol. 185; p. 1376.
Printing machines, Stencil-. The Rotospeed Company. No. 88,206; Sept. 3; Gaz. vol. 182; p. 244.
Printing or duplicating machines. The Lettergraph Company. No. 86,602; May 21; Gaz. vol. 178; p. 880.
Printing-plates. J. R. Lenfestey. No. 89,275; Dec. 3; Gaz. vol. 185; p. 245.
Printing-presses. The Regina Company. No. 87,006; June 18; Gaz. vol. 179; p. 848.
Prisms, Illuminating-. American Bar Lock Company. No. 87,703; Aug. 6; Gaz. vol. 181; p. 259.
Projecting-machines and slides therefor. A. M. Henry. No. 87,995; Aug. 20; Gaz. vol. 181; p. 816.
Publication, Periodical. J. E. Wood. No. 85,785; Mar. 12; Gaz. vol. 176; p. 523.
Publication, Weekly. Life Publishing Company. No. 84,981; Jan. 16; Gaz. vol. 174; p. 824.
Publications, Continually-changing series of. M. Witmark & Sons. Nos. 85,534–5; Feb. 20; Gaz. vol. 175; p. 841.
Pudding, Cream-. O. D. Brubaker. No. 88,237; Sept. 10; Gaz. vol. 182; p. 503.
Pudding-powder. C. Hansen. No. 88,409; Sept. 17; Gaz. vol. 182; p. 717.
Pudding-powders. G. Eckhardt. No. 85,232; Feb. 6; Gaz. vol. 175; p. 259.
Pulley-blocks. Mill & Mine Supply Co. No. 85,268; Feb. 6; Gaz. vol. 175; p. 260.
Pulleys. New York Stamping Company. No. 88,196; Sept. 3; Gaz. vol. 182; p. 244.
Pulp manufactured by special process, Wood-. A/S. Hurum Fabriker. No. 86,500; May 14; Gaz. vol. 178; p. 587.
Pulp, Wood-. M. Gottesman & Son. No. 87,332; July 9; Gaz. vol. 180; p. 597.
Pump buckets, Chain-. H. C. Freshour. No. 85,238; Feb. 6; Gaz. vol. 175; p. 259.
Pumps and parts thereof, Air-. The New York Air Brake Company. No. 86,727; May 28; Gaz. vol. 178; p. 1148.
Pumps and parts thereof, Automatic. Gearless Automatic Pump Co. No. 85,738; Mar. 12; Gaz. vol. 176; p. 521.
Pumps, Hand air-. Judd & Leland M'f'g. Co. No. 85,254; Feb. 6; Gaz. vol. 175; p. 260.
Pumps, Milk check-. D. H. Burrell & Company. No. 87,159; July 2; Gaz. vol. 180; p. 315.
Pumps, Well-. Red Jacket Manufacturing Company. No. 87,925; Aug. 13; Gaz. vol. 181; p. 537.
Punches, shears, rod-cutters, &c. P. G. H. Bennet. No. 87,970; Aug. 20; Gaz. vol. 181; p. 815.
Purgative. I. Hermann. No. 86,223; Apr. 23; Gaz. vol. 177; p. 1039.
Purgatives. Chemische Fabrik auf Actien (vorm. E. Schering). No. 88,242; Sept. 10; Gaz. vol. 182; p. 503.
Radiators. American Radiator Company. No. 88,658; Oct. 15; Gaz. vol. 183; p. 777.
Radium-iodin-terpene preparation. Société le Dioradin. No. 88,029; Aug. 20; Gaz. vol. 181; p. 817.
Rail-anchors, anticreepers, tie-plates, &c. The P. & M. Co. No. 89,292; Dec. 3; Gaz. vol. 185; p. 245.
Railway-rails. Continuous Rail Company. Nos. 86,883–4; June 11; Gaz. vol. 179; p. 567.
Railway-ties and rail-fastenings. Chicago Steel Railway Tie Company. No. 87,976; Aug. 20; Gaz. vol. 181; p. 815.
Rain coats and capes and bathing-caps. S. L. Lifshitz. No. 87,546; July 23; Gaz. vol. 180; p. 1134.
Raisins. Rosenberg Bros. & Co. Nos. 86,089–90; Apr. 9; Gaz. vol. 177; p. 521.
Raisins and dried fruits. Fresno Home Packing Company. No. 89,547; Dec. 24; Gaz. vol. 185; p. 1049.

Alphabetical list of trade-marks—Continued.

Raisins and sealed fruits, Seeded. Griffin & Skelley Co. No. 86,661; May 21; Gaz. vol. 178; p. 881.
Raisins, currants, and canned vegetables. F. E. Royston & Co. No. 89,502; Dec. 17; Gaz. vol. 185; p. 825.
Ranges, heating-stoves, and hot-air furnaces, Cooking-. H. N. Clark Co. No. 86,038; Apr. 9; Gaz. vol. 177; p. 519.
Rat-exterminator. H. M. Kirby Co. No. 85,450; Feb. 20; Gaz. vol. 175; p. 838.
Raw and partly-prepared materials, Certain. D. F. Bash. No. 86,568; May 21; Gaz. vol. 178; p. 879.
Raw or partly-prepared materials, Certain. F. & J. Meyer. No. 86,314; Apr. 30; Gaz. vol. 177; p. 1292.
Raw or partly-prepared materials, Certain. D. Rauh. No. 86,669; May 21; Gaz. vol. 178; p. 882.
Raw or partly-prepared materials, Certain. Cargill Elevator Co. No. 87,422; July 16; Gaz. vol. 180; p. 874.
Razor sharpening, cleaning, and polishing composition. C. A. Krause. No. 89,190; Nov. 19; Gaz. vol. 184; p. 799.
Razor-strop dressing. The Z-Only Co. No. 85,635; Feb. 27; Gaz. vol. 175; p. 1095.
Razors. Durham Duplex Razor Company. No. 86,041; Apr. 9; Gaz. vol. 177; p. 519.
Razors. Osborne Garrett & Co. No. 88,019; Aug. 20; Gaz. vol. 181; p. 816.
Razors. J. A. Henckels. Nos. 88,286–8; Sept. 10; Gaz. vol. 182; pp. 504–5.
Razors. The Edlis Barbers Sup. Co. No. 88,618; Oct. 8; Gaz. vol. 183; p. 499.
Razors. F. Ern & Co. No. 88,621; Oct. 8; Gaz. vol. 183; p. 499.
Razors. J. A. Henckels. No. 89,257; Dec. 3; Gaz. vol. 185; p. 244.
Razors and parts thereof. Geneva Cutlery Company. No. 89,247; Dec. 3; Gaz. vol. 185; p. 244.
Razors and razor-blades. United Safety Razor Company. No. 86,746; May 28; Gaz. vol. 178; p. 1149.
Razors and tools. Odell Hardware Co. No. 87,913; Aug. 13; Gaz. vol. 181; p. 537.
Razors, blades, knives, files, and scissors. Auto Strop Safety Razor Co. No. 88,449; Sept. 24; Gaz. vol. 182; p. 965.
Razors, razor-blades and holders. Durham Duplex Razor Company. No. 88,170; Sept. 3; Gaz. vol. 182; p. 243.
Razors, razor-blades, shears, &c. F. A. Clauberg & Co. No. 88,615; Oct. 8; Gaz. vol. 183; p. 499.
Razors, Safety-. Bedford Safety Razor Company. No. 87,842; Aug. 13; Gaz. vol. 181; p. 535.
Razors, scissors, and knives. P. L. Schmidt. No. 88,962; Oct. 29; Gaz. vol. 183; p. 1305.
Razors, scissors, and pocket-knives. Wester Bros. No. 85,302; Feb. 6; Gaz. vol. 175; p. 261.
Razors, scissors, and pocket-knives. P. L. Schmidt. Nos. 87,261–2; July 2; Gaz. vol. 180; p. 318.
Receptacles, Certain. American Paper Products Company. No. 87,391; July 16; Gaz. vol. 180; p. 873.
Receptacles, Certain. Yale Novelty Company. No. 87,511; July 16; Gaz. vol. 180; p. 876.
Receptacles, Certain named. Tower Manufacturing Company. No. 88,533; Sept. 24; Gaz. vol. 182; p. 967.
Receptacles or containers. Thermolac Manufacturing Company. No. 85,522; Feb. 20; Gaz. vol. 175; p. 840.
Record, Loose-leaf. J. Webb, Jr. No. 89,726; Dec. 31; Gaz. vol. 185; p. 1376.
Recording apparatus. American Recorder Company. No. 86,867; June 11; Gaz. vol. 179; p. 567.
Reflectors, Metal. H. Alexander. No. 85,399; Feb. 20; Gaz. vol. 175; p. 837.
Refrigerating devices. Iceless Ice Box Company. No. 87,453; July 16; Gaz. vol. 180; p. 874.
Refrigerators. Maine Manufacturing Company. No. 84,983; Jan. 16; Gaz. vol. 174; p. 824.
Refrigerators. Hellrung and Grimm House Furnishing Co. No. 85,115; Jan. 30; Gaz. vol. 174; p. 1213.
Refrigerators. St. Paul Show Case Manufacturing Co. No. 86,473; May 7; Gaz. vol. 178; p. 316.
Refrigerators. C. D. Stoll. No. 86,561; May 14; Gaz. vol. 178; p. 588.
Refrigerators. Maine Manufacturing Company. No. 88,320; Sept. 10; Gaz. vol. 182; p. 505.
Refrigerators and cooling-rooms. Northey Manufacturing Company. No. 85,608; Feb. 27; Gaz. vol. 175; p. 1095.
Refrigerators and ice-boxes. The Baldwin Refrigerator Co. No. 84,929; Jan. 16; Gaz. vol. 174; p. 823.
Refuse-burners. J. Prescott. No. 87,924; Aug. 13; Gaz. vol. 181; p. 537.
Registers, Autograph-. Krauth & Benninghofen. No. 85,260; Feb. 6; Gaz. vol. 175; p. 260.
Registers, Autographic. Hainer Bookkeeping Machine Co. No. 88,277; Sept. 10; Gaz. vol. 182; p. 504.
Remedies and liniments for certain named diseases. Hance Bros. & White No. 89,252; Dec. 3; Gaz. vol. 185; p. 244.
Remedies, Certain internal and external. Merchants Syndicate. No. 88,189; Sept. 3; Gaz. vol. 182; p. 244.
Remedies, Certain medicinal. T. E. Quere. No. 85,881; Mar. 26; Gaz. vol. 176; p. 1066.
Remedies for asthma, hay-fever, catarrh, croup, and colds. H. E. Johnson. No. 84,778; Jan. 2; Gaz. vol. 174; p. 285.
Remedies for cancer and skin and blood diseases. W. N. Collier. No. 87,728; Aug. 6; Gaz. vol. 181; p. 260.
Remedies for catarrh, asthma, hay-fever, &c. J. Price. No. 85,880; Mar. 26; Gaz. vol. 176; p. 1066.
Remedies for cattle. Z. L. Burress. No. 85,703; Mar. 5; Gaz. vol. 176; p. 271.
Remedies for certain ailments. Capmetone Chemical Co. No. 85,794; Mar. 19; Gaz. vol. 176; p. 745.
Remedies for certain ailments. Southwestern Medicine Co. No. 86,836; June 4; Gaz. vol. 179; p. 283.
Remedies for certain diseases. C. A. Frank. No. 86,983; June 18; Gaz. vol. 179; p. 847.
Remedies for certain diseases. Magic Remedy Company. No. 87,548; July 23; Gaz. vol. 180; p. 1134.
Remedies for certain diseases. Warner's Safe Remedies Co. No. 87,578; July 23; Gaz. vol. 180; p. 1135.
Remedies for certain diseases. Monticello Drug Co. No. 88,916; Oct. 29; Gaz. vol. 183; p. 1303.
Remedies for certain named diseases. Howard Bros. Chemical Co. No. 89,363; Dec. 10; Gaz. vol. 185; p. 520.
Remedies for certain named diseases of fowls. Sixeas Poultry & Stock Remedies Co. No. 89,157; Nov. 12; Gaz. vol. 184; p. 547.
Remedies for colds, grippe, and headache. L. C. Rohlfing. No. 88,365; Sept. 10; Gaz. vol. 182; p. 507.
Remedies for constipation. A. H. Griswold. No. 84,959; Jan. 16; Gaz. vol. 174; p. 824.
Remedies for coughs, headache, corns, &c. J. B. Scureman. No. 86,244; Apr. 23; Gaz. vol. 177; p. 1040.
Remedies for diseases of females. W. C. Fielding. No. 87,868; Aug. 13; Gaz. vol. 181; p. 536.
Remedies for diseases of the kidney and bladder and rheumatism. Foley & Company. No. 88,620; Oct. 8; Gaz. vol. 183; p. 499.
Remedies for genito-urinary diseases. C. Schultz. No. 85,011; Jan. 16; Gaz. vol. 174; p. 825.
Remedies for gout and rheumatism. Chemische Fabrik auf Actien (vorm. E. Schering). No. 87,041; June 25; Gaz. vol. 179; p. 1101.
Remedies for gout and rheumatism. Chemische Fabrik auf Actien (vorm. E. Schering). No. 87,317; July 9; Gaz. vol. 180; p. 597.
Remedies for grippe and influenza. C. W. Holzhauer. No. 86,060; Apr. 9; Gaz. vol. 177; p. 520.
Remedies for headache. B. J. Fuller. No. 84,952; Jan. 16; Gaz. vol. 174; p. 824.
Remedies for hog and chicken cholera. L. T. Coyle. No. 88,553; Oct. 1; Gaz. vol. 183; p. 213.
Remedies for indigestion, dyspepsia, malaria, &c. A. Kramer. No. 87,221; July 2; Gaz. vol. 180; p. 317.
Remedies for kidney ailments. J. Zientek. No. 87,581; July 23; Gaz. vol. 180; p. 1135.
Remedies for nervous diseases. The J. W. Brant Company. No. 85,321; Feb 13; Gaz. vol. 175; p. 537.
Remedies for neuralgia and headache. Frederick Stearns & Co. No. 88,128; Aug. 27; Gaz. vol. 181; p. 1069.
Remedies for obesity, dyspepsia, and indigestion. The Rock-A-Water Chemical Company. No. 84,915; Jan. 9; Gaz. vol. 174; p. 582.
Remedies for piles and skin diseases. G. A. Mills. No. 84,788; Jan. 2; Gaz. vol. 174; p. 285.
Remedies for rheumatism. A. J. Downey. No. 89,233; Dec. 3; Gaz. vol. 185; p. 243.
Remedies for rheumatism and blood diseases. G. W. Herren. No. 87,759; Aug. 6; Gaz. vol. 181; p. 260.
Remedies for seasickness. Mothersill Remedy Company. No. 89,412; Dec. 10; Gaz. vol. 185; p. 521.
Remedies for skin and blood diseases, cuts, and wounds. L. St. Amant. No. 84,761; Jan. 2; Gaz. vol. 174; p. 284.
Remedies for sore throat and bronchial ailments. Nuera Pharmacal Co. No. 85,829; Mar. 19; Gaz. vol. 176; p. 746.
Remedies, Laxative. Donovan & Spang. No. 85,330; Feb. 13; Gaz. vol. 175; p. 537.
Remedies, Nasal and throat. A. R. Farnum. No. 85,097; Jan. 30; Gaz. vol. 174; p. 1212.
Remedies, Pile. Malone & Diss. No. 87,549; July 23; Gaz. vol. 180; p. 1134.
Remedies to build the natural resistance of the body, Food. A. M. Wheeler. No. 85,395; Feb. 13; Gaz. vol. 175; p. 539.
Remedies, Wound-healing. Actien-Gesellschaft für Anilin-Fabrikation. No. 86,768; June 4; Gaz. vol. 179; p. 281.
Remedy against biliary and renal calculus. L. Bauer. No. 88,156; Sept. 3; Gaz. vol. 182; p. 243.
Remedy, Blood. C. E. Gallagher. No. 86,765; May 28; Gaz. vol. 178; p. 1149.
Remedy, Cancer. N. Cormier. No. 85,706; Mar. 5; Gaz. vol. 176; p. 271.
Remedy, Certain. Himrod Man'f'g Co. No. 85,349; Feb. 13; Gaz. vol. 175; p. 538.
Remedy, Certain external. E. W. Gaube. No. 87,747; Aug. 6; Gaz. vol. 181; p. 260.
Remedy, Corn. H. L. Yager & Co. No. 89,403; Dec. 10; Gaz. vol. 185; p. 521.
Remedy for affections of the bowels. Haltiwanger-Taylor Drug Co. No. 85,810; Mar. 19; Gaz. vol. 176; p. 745.
Remedy for ailments of the mouth and throat. H. H. Ink. No. 84,746; Jan. 2; Gaz. vol. 174; p. 284.

Alphabetical list of trade-marks—Continued.

Remedy for alcoholism. I. Oppenheimer. No. 89,691; Dec. 31; Gaz. vol. 185; p. 1375.
Remedy for all derangements of the female organs. The Bentley Medicine Company. No. 89,615; Dec. 31; Gaz. vol. 185; p. 1373.
Remedy for all poultry diseases. D. F. Runion. No. 85,619; Feb. 27; Gaz. vol. 175; p. 1095.
Remedy for asthma. J. Henderson. No. 89,258; Dec. 3; Gaz. vol. 185; p. 244.
Remedy for cancer. J. Gaube dit du Gers. No. 85,574; Feb. 27; Gaz. vol. 175; p. 1094.
Remedy for cancer. G. W. Greene. No. 88,569; Oct. 1; Gaz. vol. 183; p. 213.
Remedy for cancer, eczema, &c. S. J. Birckhead. No. 87,971; Aug. 20; Gaz. vol. 181; p. 815.
Remedy for catarrh. R. A. Gossett. No. 84,738; Jan. 2; Gaz. vol. 174; p. 283.
Remedy for catarrh. K. Morris. No. 84,987; Jan. 16; Gaz. vol. 174; p. 825.
Remedy for catarrh. T. R. Edwards. No. 88,860; Oct. 29; Gaz. vol. 183; p. 1302.
Remedy for catarrh and colds in the head. M. J. Stebbins. No. 85,197; Jan. 30; Gaz. vol. 174; p. 1215.
Remedy for certain ailments. R. Porter. No. 85,375; Feb. 13; Gaz. vol. 175; p. 539.
Remedy for certain ailments. John Wyeth & Brother. No. 86,114; Apr. 9; Gaz. vol. 177; p. 521.
Remedy for certain ailments. Haltiwanger-Taylor Drug Co. No. 87,070; June 25; Gaz. vol. 179; p. 1102.
Remedy for certain ailments. J. B. Smith. No. 87,567; July 23; Gaz. vol. 180; p. 1134.
Remedy for certain ailments. F. P. Albright. No. 87,700; Aug. 6; Gaz. vol. 181; p. 259.
Remedy for certain ailments. S. Packard. No. 87,917; Aug. 13; Gaz. vol. 181; p. 537.
Remedy for certain ailments and diseases. D. S. Van Horne. No. 89,163; Nov. 12; Gaz. vol. 184; p. 547.
Remedy for certain diseases. R. M. Clinkscales & Son. No. 85,558; Feb. 27; Gaz. vol. 175; p. 1093.
Remedy for certain diseases. The Enteronol Company. No. 85,707; Mar. 5; Gaz. vol. 176; p. 271.
Remedy for certain diseases. Williams Remedy Co. No. 85,718; Mar. 5; Gaz. vol. 176; p. 271.
Remedy for certain diseases. H. A. Metz & Co. No. 85,760; Mar. 12; Gaz. vol. 176; p. 522.
Remedy for certain diseases. J. Boyd. No. 86,125; Apr. 16; Gaz. vol. 177; p. 765.
Remedy for certain diseases. P. Parnitzky. No. 86,237; Apr. 23; Gaz. vol. 177; p. 1040.
Remedy for certain diseases. Brown Bros. No. 86,781; June 4; Gaz. vol. 179; p. 281.
Remedy for certain diseases. Dr. Arthur Erhard Gesellschaft mit beschränkter Haftung. No. 86,794; June 4; Gaz. vol. 179; p. 281.
Remedy for certain diseases. The J. W. M. Clark Co. No. 87,043; June 25; Gaz. vol. 179; p. 1101.
Remedy for certain diseases. The Delano Company. No. 87,048; June 25; Gaz. vol. 179; p. 1101.
Remedy for certain diseases. G. G. Green. No. 87,068; June 25; Gaz. vol. 179; p. 1102.
Remedy for certain diseases. B. J. Rozanski. No. 87,486; July 16; Gaz. vol. 180; p. 875.
Remedy for certain diseases. Reed & Carnrick. No. 87,808; Aug. 6; Gaz. vol. 181; p. 262.
Remedy for certain diseases and for pain in the back. C. Partos. No. 88,020; Aug. 20; Gaz. vol. 181; p. 816.
Remedy for certain diseases and for toilet uses. Paris Medicine Company. No. 87,361; July 9; Gaz. vol. 180; p. 598.
Remedy for certain named diseases. Farbwerke vorm. Meister Lucius & Brüning. No. 88,862; Oct. 29; Gaz. vol. 183; p. 1302.
Remedy for certain named diseases. Manine Medicine Company. No. 88,907; Oct. 29; Gaz vol. 183; p. 1303.
Remedy for certain named diseases. American Tablet Co. No. 89,215; Dec. 3; Gaz. vol. 185; p. 243.
Remedy for certain named diseases. American Tablet Co. No. 89,601; Dec. 31; Gaz. vol. 185; p. 1373.
Remedy for certain named diseases. Clayton Chemical Company. No. 89,624; Dec. 31; Gaz. vol. 185; p. 1374.
Remedy for certain skin diseases. F. B. Shields. No. 88,597; Oct. 1; Gaz. vol. 183; p. 214.
Remedy for chills and fever and malaria. M. E. Saravia & Co. No. 89,408; Dec. 10; Gaz. vol. 185; p. 521.
Remedy for chills and malaria and as a general tonic. J. F. Burnam. No. 88,550; Oct. 1; Gaz. vol. 183; p. 213.
Remedy for complexion disorders and skin-beautifier. F. C. Hand. No. 89,540; Dec. 24; Gaz. vol. 185; p. 1049.
Remedy for constipation. Pinko-Laxin Medicine Co. No. 86,446; May 7; Gaz. vol. 178; p. 315.
Remedy for constipation. Senex Company. No. 89,154; Nov. 12; Gaz. vol. 184; p. 547.
Remedy for consumption. Seat Brothers. No. 84,757; Jan. 2; Gaz. vol. 174; p. 284.
Remedy for corns and bunions. W. F. Beaird. No. 88,612; Oct. 8; Gaz. vol. 183; p. 499.
Remedy for corns and bunions. The Scholtz Drug Company. No. 88,707; Oct. 15; Gaz. vol. 183; p. 778.
Remedy for corns, bunions, and callous spots. W. F. Dinges. No. 84,944; Jan. 16; Gaz. vol. 174; p. 823.
Remedy for corns, bunions, and warts. E. Zeigler. No. 86,654; May 21; Gaz. vol. 178; p. 881.
Remedy for corns, calli, and bunions. Zing Sales Company. No. 88,652; Oct. 8; Gaz. vol. 183; p. 500.
Remedy for corns, calli, bunions, and warts. Dennison Pharmacal Company. No. 87,526; July 23; Gaz. vol. 180; p. 1133.
Remedy for coughs and colds. Crane Medicine Co. No. 85,083; Jan. 30; Gaz. vol. 174; p. 1212.
Remedy for coughs, colds, bronchitis, &c. F. Johnson. No. 87,215; July 2; Gaz. vol. 180; p. 317.
Remedy for coughs, colds, hoarseness, and catarrh. Kolberger Anstalten für Exterikultur Wilh. Anhalt G. m. b. H. No. 88,308; Sept. 10; Gaz. vol. 182; p. 505.
Remedy for coughs, colds, nervousness, and consumptives. W. P. Ward. No. 86,189; Apr. 16; Gaz. vol. 177; p. 767.
Remedy for cuts and bruises. S. Seizi. No. 88,373; Sept. 10; Gaz. vol. 182; p. 507.
Remedy for dandruff. W. N. Hull. No. 88,627; Oct. 8; Gaz. vol. 183; p. 499.
Remedy for diabetes. E. Rath. No. 86,831; June 4; Gaz. vol. 179; p. 282.
Remedy for diabetes. E. Léderer. No. 88,896; Oct. 29; Gaz. vol. 183; p. 1303.
Remedy for diseases of females. E. Miller, Jr. No. 87,785; Aug. 6; Gaz. vol. 181; p. 261.
Remedy for diseases of the blood. D. Petillo. No. 84,793; Jan. 2; Gaz. vol. 174; p. 285.
Remedy for diseases of the eye. J. B. Haden. No. 85,859; Mar. 26; Gaz. vol. 176; p. 1065.
Remedy for diseases of the feet and a deodorizer. G. M. Budd. No. 86,031; Apr. 9; Gaz. vol. 177; p. 519.
Remedy for diseases of the liver. J. G. Dodson. No. 88,254; Sept. 10; Gaz. vol. 182; p. 504.
Remedy for diseases of the liver. McAdams & Morford. No. 89,482; Dec. 17; Gaz. vol. 185; p. 824.
Remedy for diseases of the rectum. H. Matusow. No. 89,481; Dec. 17; Gaz. vol. 185; p. 824.
Remedy for diseases of the stomach, &c. J. J. Bockar. No. 88,661; Oct. 15; Gaz. vol. 183; p. 777.
Remedy for dyspepsia. Brown Manufacturing Co. No. 88,549; Oct. 1; Gaz. vol. 183; p. 213.
Remedy for epilepsy. M. Duckman. No. 84,732; Jan. 2; Gaz. vol. 174; p. 283.
Remedy for foul and chilled broods among bees. C. Christensen. No. 84,938; Jan. 16; Gaz. vol. 174; p. 823.
Remedy for gall-stones. M. Förster. No. 88,566; Oct. 1; Gaz. vol. 183; p. 213.
Remedy for gonorrhea. Eastern Drug Co. No. 85,333; Feb. 13; Gaz. vol. 175; p. 537.
Remedy for gonorrhea. J. C. McFarland. No. 85,604; Feb. 27; Gaz. vol. 175; p. 1094.
Remedy for gonorrhea. W. Silverman. No. 86,245; Apr. 23; Gaz. vol. 177; p. 1040.
Remedy for gonorrhea and gleet. Smith Chemical Co. No. 85,189; Jan. 30; Gaz. vol. 174; p. 1215.
Remedy for gonorrhea, gleet, &c. Hinkle Capsule Company. No. 85,709; Mar. 5; Gaz. vol. 176; p. 271.
Remedy for hay-fever and asthma. A. C. Durant. No. 86,392; May 7; Gaz. vol. 178; p. 314.
Remedy for headache. W. H. Horne. No. 85,583; Feb. 27; Gaz. vol. 175; p. 1094.
Remedy for headache and neuralgia. The Dalton Medicine Co. No. 85,561; Feb. 27; Gaz. vol. 175; p. 1093.
Remedy for headache, neuralgia, &c. The Noncarpicine Company. No. 84,994; Jan. 16; Gaz. vol. 174; p. 825.
Remedy for headaches and indigestion. S. Cavallaro-Ferrara. No. 89,422; Dec. 10; Gaz. vol. 185; p. 522.
Remedy for hog and chicken cholera. D. K. Moore. No. 89,411; Dec. 10; Gaz. vol. 185; p. 521.
Remedy for indigestion, heartburn, &c. M. J. Marttene. No. 89,125; Nov. 12; Gaz. vol. 184; p. 546.
Remedy for infectious diseases. H. Blu-Meyers. No 88,464; Sept. 24; Gaz. vol. 182; p. 965.
Remedy for inflamed vagina, womb, &c. Ointine Company. No. 89,687; Dec. 31; Gaz. vol. 185; p. 1375.
Remedy for kidney and bladder diseases. H. M. Swartley. No. 86,475; May 7; Gaz. vol. 178; p. 316.
Remedy for liver ills. J. L. Johnson. No. 88,496; Sept. 24; Gaz. vol. 182; p. 966.
Remedy for lung and stomach diseases. J. Zientek. No. 89,319; Dec. 3; Gaz. vol. 185; p. 246.
Remedy for lung diseases. Diongs Medical Company. No. 85,849; Mar. 26; Gaz. vol. 176; p. 1065.
Remedy for malaria. A. E. Brown. No. 84,724; Jan. 2; Gaz. vol. 174; p. 283.
Remedy for malaria, ague, fevers, &c. Metropolitan Pharmacal Co. No. 88,686; Oct. 15; Gaz. vol. 183; p. 778.
Remedy for pains and aches, rheumatism, neuralgia, &c. E. W. Gaube. No. 84,904; Jan. 9; Gaz. vol. 174; p. 582.
Remedy for piles. Fell Drug Co. No. 88,565; Oct. 1; Gaz. vol. 183; p. 213.
Remedy for pneumonia, bronchitis, &c. J. B. Cox. No. 86,037; Apr. 9; Gaz. vol. 177; p. 519.
Remedy for poison-oak poisoning. M. Vincent Co. No. 85,628; Feb. 27; Gaz. vol. 175; p. 1095.
Remedy for rheumatism. T. James and J. Caprinali. No. 85,445; Feb. 20; Gaz. vol. 175; p. 838.
Remedy for rheumatism. The Hibern Company. No. 85,582; Feb. 27; Gaz. vol. 175; p. 1094.

Alphabetical list of trade-marks—Continued.

Remedy for rheumatism. Boyd Medicine Co. No. 85,843; Mar. 26; Gaz. vol. 176; p. 1065.
Remedy for rheumatism. J. R. Cannon. No. 86,783; June 4; Gaz. vol. 179; p. 281.
Remedy for rheumatism. O. F. Meyer. N. 89,484; Dec. 17; Gaz. vol. 185; p. 824.
Remedy for rheumatism, gout, and neuralgia. Nelaton Remedy Co. No. 89,414; Dec. 10; Gaz. vol. 185; p. 521.
Remedy for rheumatism, indigestion, &c. Fell Drug Co. No. 88,479; Sept. 24; Gaz. vol. 182; p. 966.
Remedy for rheumatism, indigestion, and kidney trouble. J. H. Leavines. No. 89,380; Dec. 10; Gaz. vol. 185; p. 520.
Remedy for rheumatism, sciatic pains, &c. G. H. Henson. No. 86,222; Apr. 23; Gaz. vol. 177; p. 1039.
Remedy for roup, canker, colds, &c., of fowls. O. D. Mitchell. No. 89,283; Dec. 3; Gaz. vol. 185; p. 245.
Remedy for skin disease. J. Ulager. No. 87,576; July 23; Gaz. vol. 180; p. 1135.
Remedy for skin diseases. Hebert and Guidry. No. 85,114; Jan. 30; Gaz. vol. 174; p. 1213.
Remedy for skin diseases. C. Partos. No. 85,712; Mar. 5; Gaz. vol. 176; p. 271.
Remedy for skin diseases. Knoll & Co. No. 88,894; Oct. 29; Gaz. vol. 183; p. 1303.
Remedy for skin diseases. C. T. Hutchinson. No. 89,659; Dec. 31; Gaz. vol. 185; p. 1375.
Remedy for sleeplessness. Knoll & Co. No. 89,121; Nov. 12; Gaz. vol. 184; p. 546.
Remedy for sore throat. A. F. Stiefel. No. 88,383; Sept. 10; Gaz. vol. 182; p. 507.
Remedy for sore throat and mouth and veterinary medicine. Hampton Drug Co. No. 84,741; Jan. 2; Gaz. vol. 174; p. 284.
Remedy for stomach diseases. G. A. Johnson. No. 86,224; Apr. 23; Gaz. vol. 177; p. 1039.
Remedy for sweaty, swollen, &c., feet. C. I. Stephens. No. 86,250; Apr. 23; Gaz. vol. 177; p. 1040.
Remedy for syphilis. Petteway & Powell. No. 84,794; Jan. 2; Gaz. vol. 174; p. 285.
Remedy for syphilis and blood-poison. United Grocery Co. No. 85,390; Feb. 13; Gaz. vol. 175; p. 539.
Remedy for syphilis, gonorrhea, and gleet. E. C. Dunham. No. 84,947; Jan. 16; Gaz. vol. 174; p. 823.
Remedy for the blood and bowels. Russmann Mfg. Co. No. 88,703; Oct. 15; Gaz. vol. 183; p. 778.
Remedy for the kidneys and liver. R. J. Parrett. No. 85,169; Jan. 30; Gaz. vol. 174; p. 1214.
Remedy for the nerves. O. Kaesbach. No. 87,344; July 9; Gaz. vol. 180; p. 598.
Remedy for the scalp. O. B. Jafnel. No. 86,808; June 4; Gaz. vol. 179; p. 282.
Remedy for the stomach, liver, kidneys, bowels, and blood. W. P. Cabler. No. 87,162; July 2; Gaz. vol. 180; p. 315.
Remedy for the treatment of grippe. Marvelous Grippe Remedy Co. No. 89,567; Dec. 24; Gaz. vol. 185; p. 1050.
Remedy for tuberculosis. M. D. Chouquette. No. 85,326; Feb. 13; Gaz. vol. 175; p. 537.
Remedy for tuberculosis. E. F. Davis. No. 88,470; Sept. 24; Gaz. vol. 182; p. 965.
Remedy, Headache. Kirshner & Berman. No. 86,142; Apr. 16; Gaz. vol. 177; p. 765.
Remedy, Headache. J. J. Brodbeck. No. 86,780; June 4; Gaz. vol. 179; p. 281.
Remedy, Headache. H. P. Dukehart. No. 87,528; July 23; Gaz. vol. 180; p. 1133.
Remedy, Indigestion. McCusker and Barnes. No. 86,428; May 7; Gaz. vol. 178; p. 315.
Remedy, Kidney. Hargin Mfg. Company. No. 89,253; Dec. 3; Gaz. vol. 185; p. 244.
Remedy, Laxative. Tri-Tone Drug Manufacturing Company. No. 85,204; Jan. 30; Gaz. vol. 174; p. 1215.
Remedy, Laxative. The Vitalis Co. No. 85,890; Mar. 26; Gaz. vol. 176; p. 1066.
Remedy, Laxative and cathartic. G. C. Whitmore. No. 87,024; June 18; Gaz. vol. 179; p. 848.
Remedy, Nerve and blood. Young Remedy Company. No. 85,634; Feb. 27; Gaz. vol. 175; p. 1095.
Remedy, Obesity. Ro-Co-Na Company. No. 89,501; Dec. 17; Gaz. vol. 185; p. 825.
Remedy, Pile. W. J. Davidson. No. 85,562; Feb. 27; Gaz. vol. 175; p. 1093.
Remedy, Pile. R. A. Courtney. No. 88,246; Sept. 10; Gaz. vol. 182; p. 503.
Remedy, Pile. Howard Bros. Chemical Co. No. 89,264; Dec. 3; Gaz. vol. 185; p. 244.
Remedy, Rheumatic and kidney. A. E. Haney. No. 88,872; Oct. 29; Gaz. vol. 183; p. 1302.
Remedy, Tapeworm. Chemische Fabrik Helfenberg A. G. vorm. Eugen Dieterich. No. 86,035; Apr. 9; Gaz. vol. 177; p. 519.
Remedy, tonic, &c., Blood, stomach, and liver. Vital Remedies Company. No. 87,951; Aug. 13; Gaz. vol. 181; p. 538.
Remedy used as a blood-purifier and liver-regulator. L. W. Estes. No. 84,949; Jan. 16; Gaz. vol. 174; p. 823.
Remedy, Veterinary. Warren Remedy Company. No. 84,771; Jan. 2; Gaz. vol. 174; p. 284.
Revolvers, pistols, and shotguns. A. Saurer. No. 89,205; Nov. 19; Gaz. vol. 184; p. 800.
Ribbons. Carson, Pirie, Scott & Co. No. 85,412; Feb. 20; Gaz. vol. 175; p. 837.
Ribbons. U. R. T. Lund. No. 85,599; Feb. 27; Gaz. vol. 175; p. 1094.
Ribbons. The Nonotuck Silk Company. No. 86,081; Apr. 9; Gaz. vol. 177; p. 520.
Ribbons. Carson, Pirie, Scott & Co. No. 87,522; July 23; Gaz. vol. 180; p. 1133.
Ribbons. Virginia Silk Co. No. 87,828; Aug. 6; Gaz. vol. 181; p. 262.
Ribbons and hair-nets. Dieckerhoff, Raffloer & Co. No. 85,565; Feb. 27; Gaz. vol. 175; p. 1093.
Ribbons for linen articles. Blanc & fils. No. 88,997; Nov. 5; Gaz. vol. 184; p. 281.
Ribbons, Silk. Virginia Silk Co. No. 86,011; Apr. 2; Gaz. vol. 177; p. 237.
Ribbons, Silk, cotton and silk, and cotton. Nonotuck Silk Company. No. 87,556; July 23; Gaz. vol. 180; p. 1134.
Ribbons, Velvet. Colcombet Fois & Co. Nos. 88,734–5; Oct. 22; Gaz. vol. 183; p. 1027.
Ribbons, Washable. J. C. Welwood. No. 87,830; Aug. 6; Gaz. vol. 181; p. 262.
Rice. Seaboard Rice Milling Co. No. 86,093; Apr. 9; Gaz. vol. 177; p. 521.
Rice. C. E. McMahan & Co. Nos. 87,231–2; July 2; Gaz. vol. 180; p. 317.
Rice. W. T. Welisch & Co. No. 87,695; July 30; Gaz. vol. 180; p. 1390.
Rice, tea, and coffee. R. L. Gerhart. Nos. 86,766–7; May 28; Gaz. vol. 178; p. 1149.
Rifles, shotguns, and revolvers. The Ithaca Gun Company. No. 86,911; June 11; Gaz. vol. 179; p. 568.
Rings. T. S. Fleischer. No. 85,035; Jan. 23; Gaz. vol. 174; p. 1023.
Rings, Finger-. F. N. Charrington. No. 86,785; June 4; Gaz. vol. 179; p. 281.
Rivets. Hoopes & Townsend Co. No. 86,758; May 28; Gaz. vol. 178; p. 1149.
Roach and vermin exterminators. N. R. Levi. No. 88,577; Oct. 1; Gaz. vol. 183; p. 214.
Roads and pavements, Binding composition for. E. A. Paterson. No. 89,055; Nov. 5; Gaz. vol. 184; p. 283.
Robes and manteaux. A. M. Taft. No. 86,962; June 11; Gaz. vol. 179; p. 570.
Rock-drills. Ingersoll-Rand Company. No. 85,658; Mar. 5; Gaz. vol. 176; p. 269.
Rock-drills. Ingersoll-Rand Company. No. 85,907; Mar. 26; Gaz. vol. 176; p. 1067.
Rockers, Children's. M. E. Converse & Son. No. 87,322; July 9; Gaz. vol. 180; p. 597.
Rodent-traps. C. S. Schmidt, Drahtgewebe und Geflechtewerke. No. 86,162; Apr. 16; Gaz. vol. 177; p. 766.
Rodent-traps. C. S. Schmidt. No. 86,163; Apr. 16; Gaz. vol. 177; p. 766.
Rolled oats. American Rice & Cereal Co. No. 87,628; July 30; Gaz. vol. 180; p. 1388.
Rolled oats. Morrow-Lawton Company. No. 88,191; Sept. 3; Gaz. vol. 182; p. 244.
Rolled oats. American Rice & Cereal Co. No. 88,395; Sept. 17; Gaz. vol. 182; p. 717.
Rolled oats and rice. Berdan & Company. No. 86,873; June 11; Gaz. vol. 179; p. 567.
Rolled oats, flaked and granulated wheat. Pacific Cereal Association. No. 88,939; Oct. 29; Gaz. vol. 183; p. 1304.
Rollers for use on streets, roads, &c., Self-propelled. Buffalo Steam Roller Company. No. 89,222; Dec. 3; Gaz. vol. 185; p. 243.
Rollers, Land, snow, lawn, &c. The Dunham Co. Nos. 87,864–5; Aug. 13; Gaz. vol. 181; p. 535.
Roofing and structural slate. Bangor Slate Association. No. 89,612; Dec. 31; Gaz. vol. 185; p. 1373.
Roofing, Asphalt. Kelley-How-Thomson Co. No. 85,751; Mar. 12; Gaz. vol. 176; p. 522.
Roofing, Asphalt and composition. C. M. McClung & Co. No. 86,427; May 7; Gaz. vol. 178; p. 315.
Roofing, Canvas. William L. Barrell Co. No. 87,145; July 2; Gaz. vol. 180; p. 315.
Roofing construction, Prepared tar, pitch, and asphalt for. Barrett Manufacturing Company. No. 87,312; July 9; Gaz. vol. 180; p. 597.
Roofing felts and papers. Barrett Manufacturing Company. No. 88,659; Oct. 15; Gaz. vol. 183; p. 777.
Roofing, Waterproof. The Lincoln Waterproof Cloth Company. No. 84,982; Jan. 16; Gaz. vol. 174; p. 824.
Roofings, walls, ceilings, &c., Coverings for. Standard Paint Company. No. 87,279; July 2; Gaz. vol. 180; p. 319.
Rope and cordage, Manila and sisal. Columbian Rope Company. No. 86,755; May 28; Gaz. vol. 178; p. 1149.
Rope and cordage, Manila and sisal. Columbia Rope Co. No. 87,854; Aug. 13; Gaz. vol. 181; p. 535.
Rope, Manila and sisal. Columbian Rope Co. No. 84,727; Jan. 2; Gaz. vol. 174; p. 283.
Rope, Wire. A. Leschen & Sons Rope Company. Nos. 87,778–9; Aug. 6; Gaz. vol. 181; p. 261.
Rope, yarns, twines, &c. Southern Mills Corporation. No. 88,794; Oct. 22; Gaz. vol. 183; p. 1029.

Alphabetical list of trade-marks—Continued.

Ropes. Waterbury Company. No. 88,539; Sept. 24; Gaz. vol. 182; p. 967.
Rosin employed as paper-size. Arabol M'f'g. Co. No. 86,199; Apr 23; Gaz. vol. 177; p. 1039.
Rouge. The J. A. Pozzoni Pharmacal Co. No. 89,697; Dec. 31; Gaz. vol. 185; p. 1376.
Rubber and rubber and fabric boots and shoes. The Diamond Rubber Co. No. 84,822; Jan. 9; Gaz. vol. 174; p. 579.
Rubber, asphaltic lime-rock, and gilsonite. The American Asphaltum & Rubber Co. No. 87,702; Aug. 6; Gaz. vol. 181; p. 259.
Rubber bathing-caps. Parker, Stearns & Company. Nos. 86,443–4; May 7; Gaz. vol. 178; p. 315.
Rubber bathing-caps. Parker, Stearns & Company. No. 88,783; Oct. 22; Gaz. vol. 183; p. 1028.
Rubber belting, hose, and packing. United & Globe Rubber M'f'g Companies. No. 85,528; Feb. 20; Gaz. vol. 175; p. 840.
Rubber boots. Towner & Co. No. 88,808; Oct. 22; Gaz. vol. 183; p. 1029.
Rubber boots and shoes. Boston Rubber Shoe Company. Nos. 86,778–9; June 4; Gaz. vol. 179; p. 281.
Rubber boots and shoes. Boston Rubber Shoe Company. No. 87,037; June 25; Gaz. vol. 179; p. 1101.
Rubber boots and shoes. The L. Candee & Company. Nos. 89,341–2; Dec. 10; Gaz. vol. 185; p. 519.
Rubber boots and shoes, overshoes, &c. Hood Rubber Company. Nos. 88,751–2; Oct. 22; Gaz. vol. 183; p. 1028.
Rubber boots and shoes, overshoes, &c. Hood Rubber Company. No. 89,260; Dec. 3; Gaz. vol. 185; p. 244.
Rubber boots, shoes, arctics, &c. Beacon Falls Rubber Shoe Company. No. 87,407; July 16; Gaz. vol. 180; p. 873.
Rubber boots, shoes, overshoes, &c. Hood Rubber Co. No. 86,709; May 28; Gaz. vol. 178; p. 1148.
Rubber boots, shoes, overshoes, &c. Hood Rubber Company. No. 88,086; Aug. 27; Gaz. vol. 181; p. 1068.
Rubber-coating composition. N. B. Arnold. No. 88,045; Aug. 27; Gaz. vol. 181; p. 1067.
Rubber combs. The Vulcanized Rubber Co. No. 89,520; Dec. 17; Gaz. vol. 185; p. 825.
Rubber erasers and bands. Kabus Rubber Company. Nos. 85,867–8; Mar. 26; Gaz. vol. 176; p. 1065.
Rubber gloves and bath-caps, Household. The Star Rubber Co. Nos. 89,388–9; Dec. 10; Gaz. vol. 185; p. 521.
Rubber gloves and caps. The Star Rubber Co. Nos. 88,797–9; Oct. 22; Gaz. vol. 183; p. 1029.
Rubber goods, Certain. E. Z. Jefferson. No. 86,712; May 28; Gaz. vol. 178; p. 1148.
Rubber goods, Certain mechanical. The Gutta Percha & Rubber Mfg. Co. No. 85,435; Feb. 20; Gaz. vol. 175; p. 838.
Rubber heels. E. James. No. 89,665; Dec. 31; Gaz. vol. 185; p. 1375.
Rubber heels and soles of boots and shoes. Revere Rubber Company. No. 85,289; Feb. 6; Gaz. vol. 175; p. 261.
Rubber hose. Prescott & Co. Nos. 88,112–13; Aug. 27; Gaz. vol. 181; p. 1069.
Rubber hose. Electric Hose & Rubber Co. No. 88,474; Sept. 24; Gaz. vol. 182; p. 966.
Rubber hose. Revere Rubber Company. No. 89,701; Dec. 31; Gaz. vol. 185; p. 1376.
Rubber hose, packing, and belts and non-metallic tires. Bowers Rubber Works. No. 86,124; Apr. 16; Gaz. vol. 177; p. 765.
Rubber hot-water bags, fountain-syringes, and nipples. Montag Brothers. No. 85,467; Feb. 20; Gaz. vol. 175; p. 839.
Rubber machinery-belts and composition packing. The Continental Supply Company. No. 89,445; Dec. 17; Gaz. vol. 185; p. 823.
Rubber, Mineral. E. G. Leszynsky. No. 89,674; Dec. 31; Gaz. vol. 185; p. 1375.
Rubber or rubber and fabric belting. Peerless Rubber Manufacturing Company. No. 86,548; May 14; Gaz. vol. 178; p. 588.
Rubber packing, gaskets, disks, &c. Jenkins Rubber Co. No. 86,536; May 14; Gaz. vol. 178; p. 588.
Rubber-proofed sheetings for vessels for navigating the air. Continental-Caoutchouc- und Gutta-Percha-Compagnie. No. 88,065; Aug. 27; Gaz. vol. 181; p. 1067.
Rubber roofing. Keystone Roofing Mfg. Co. No. 85,593; Feb. 27; Gaz. vol. 175; p. 1094.
Rubber shoes and boots. La Crosse Rubber Mills Company. No. 89,673; Dec. 31; Gaz. vol. 185; p. 1375.
Rubber substitute. Vacumit-Gesellschaft m. b. H. No. 88,433; Sept. 17; Gaz. vol. 182; p. 718.
Rubber toys. Behrend & Rothschild. No. 86,373; May 7; Gaz. vol. 178; p. 313.
Rubus leaves for diarrhea. Blattay Company. No. 87,518; July 23; Gaz. vol. 180; p. 1133.
Rugs and carpets, Woven. McCleary, Wallin & Crouse. No. 89,048; Nov. 5; Gaz. vol. 184; p. 282.
Rugs, carpets, curtains, draperies, &c. W. T. Smith & Son. No. 87,671; July 30; Gaz. vol. 180; p. 1389.
Rugs, Velvet. Beattie Manufacturing Company. No. 85,642; Mar. 5; Gaz. vol. 176; p. 269.
Rugs, Woven grass. W. & J. Sloane. No. 86,469; May 7; Gaz. vol. 178; p. 316.
Rulers, Steel. Tower Manufacturing & Novelty Co. No. 87,686; July 30; Gaz. vol. 180; p. 1390.
Rulers, Triangular. F. I. Du Pont. No. 85,850; Mar. 26; Gaz. vol. 176; p. 1065.
Rupture appliances. Brooks Rupture Appliance Co. No. 89,337; Dec. 10; Gaz. vol. 185; p. 519.
Sad-irons. Landers, Frary and Clark. No. 85,361; Feb. 13; Gaz. vol. 175; p. 538.
Sad-irons. L. J. Strause. No. 85,387; Feb. 13; Gaz. vol. 175; p. 539.
Sad-irons. Household Gas Iron Company. No. 85,584; Feb. 27; Gaz. vol. 175; p. 1094
Sad-irons, Self-heating. L. Herz. No. 86,406; May 7; Gaz. vol. 178; p. 314.
Saddles, saddlery, and harness. R. Flemming. Nos. 85,427–9; Feb. 20; Gaz. vol. 175; p. 838.
Safes. Nutry & Cook Manufacturing Co. No. 87,557; July 23; Gaz. vol. 180; p. 1134.
Safes. American Steel Safe Co. No. 87,707; Aug. 6; Gaz. vol. 181; p. 259.
Safes and vault-doors. York Safe and Lock Co. No. 87,302; July 2; Gaz. vol. 180; p. 319.
Sake, Japanese. Hon Kano Shoten. No. 85,773; Mar. 12; Gaz. vol. 176; p. 522.
Salad-relish. The Provident Company. No. 88,949; Oct. 29; Gaz. vol. 183; p. 1304.
Salt. San Francisco Salt Refinery. No. 85,715; Mar. 5; Gaz. vol. 176; p. 271.
Salt. Independent Salt Co. No. 85,865; Mar. 26; Gaz. vol. 176; p. 1065.
Salt. The Hutchinson-Kansas Salt Company. No. 86,991; June 18; Gaz. vol. 179; p. 847.
Salt. Dolan Mercantile Company. No. 87,178; July 2; Gaz. vol. 180; p. 316.
Salt. San Francisco Salt Refinery. No. 88,522; Sept. 24; Gaz. vol. 182; p. 967.
Salt, Gravy-. H. Harper. No. 85,812; Mar. 19; Gaz. vol. 176; p. 745.
Salt, Mineral-water. The Potosote Company. No. 85,175; Jan. 30; Gaz. vol. 174; p. 1214.
Salts for bathing and gargling solutions. M. Mengis. No. 89,681; Dec. 31; Gaz. vol. 185; p. 1375.
Salve. The La Domus Co. No. 84,978; Jan. 16; Gaz. vol. 174; p. 824.
Salve. Hammond & Gray. No. 85,811; Mar. 19; Gaz. vol. 176; p. 745.
Salve. Chester Kent & Company. No. 85,869; Mar. 26; Gaz. vol. 176; p. 1065.
Salve. Brewster & Magner. No. 86,376; May 7; Gaz. vol. 178; p. 313.
Salve. J. P. Scharpenter. No. 88,027; Aug. 20; Gaz. vol. 181; p. 817.
Salve. G. C. Gildea. No. 88,671; Oct. 15; Gaz. vol. 183; p. 777.
Salve. A. B. Gibson. No. 89,107; Nov. 12; Gaz. vol. 184; p. 546.
Salve. The Theo. Ricksecker Co. No. 89,303; Dec. 3; Gaz. vol. 185; p. 245.
Salve and a remedy for seasickness. W. F. Worthington. No. 86,260; Apr. 23; Gaz. vol. 177; p. 1040.
Salve and certain toilet preparations. The Elizabeth Chemical Company. No. 84,734; Jan. 2; Gaz. vol. 174; p. 283.
Salve and eye-water, pile remedy, and cathartic tablets, Eye-. Howard Bros. Chemical Co. No. 89,364; Dec. 10; Gaz. vol. 185; p. 520.
Salve, Eye-. Howard Bros. Chemical Co. Nos. 89,262–3; Dec. 3; Gaz. vol. 185; p. 244.
Salve for the treatment of rheumatism. S. Cohen. No. 85,559; Feb. 27; Gaz. vol. 175; p. 1093.
Salves. F. P. Simpson. No. 86,246; Apr. 23; Gaz. vol. 177; p. 1040.
Salves. H. von Frieling. No. 86,497; May 7; Gaz. vol. 178; p. 317.
Salves. Dr. Bayer és társa. No. 88,454; Sept. 24; Gaz. vol. 182; p. 965.
Salves. P. A. Joyce. No. 89,270; Dec. 3; Gaz. vol. 185; p. 244.
Salves and balms. S. K. Sass. No. 86,462; May 7; Gaz. vol. 178; p. 316.
Salves and lotions. The American Salve Company. No. 85,542; Feb. 27; Gaz. vol. 175; p. 1093.
Salves, hair-tonic, and tooth-soap. Deodorolein Company. No. 89,629; Dec. 31; Gaz. vol. 185; p. 1374.
Sample cases and bags. The Knickerbocker Case Company. No. 84,781; Jan. 2; Gaz. vol. 174; p. 285.
Sandals and rompers. W. Greilich. No. 85,578; Feb. 27; Gaz. vol. 175; p. 1094.
Sapphires, White. F. E. Lester. No. 86,309; Apr. 30; Gaz. vol. 177; p. 1292.
Sardines. A. Luneschloss. No. 86,917; June 11; Gaz. vol. 179; p. 568.
Sardines. A/S Sardinfabrikken Norrig. No. 87,961; Aug. 13; Gaz. vol. 181; p. 538.
Sardines. Batjer & Company. No. 88,051; Aug. 27; Gaz. vol. 181; p. 1067.
Sardines. Seacoast Canning Co. No. 88,122; Aug. 27; vol. 181; p. 1069.
Sardines. Seacoast Canning Co. Nos. 88,209–11; Sept. 3; Gaz. vol. 182; p. 244.

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Sardines. Seacoast Canning Co. No. 88,523; Sept. 24; Gaz. vol. 182; p. 967.
Sardines. Aktiebolaget Sveriges Förenade Konservfabriker. No. 89,526; Dec. 24; Gaz. vol. 185; p. 1049.
Sardines in oil. Salm. Levy Jr. & Ca. No. 88,899; Oct. 29; Gaz. vol. 183; p. 1303.
Sash chains and balances. T. Morton. No. 86,724; May 28; Gaz. vol. 178; p. 1148.
Sateens, Dyed or printed. Wm. Simpson Sons & Co. No. 88,375; Sept. 10; Gaz. vol. 182; p. 507.
Satin taffeta. Virginia Silk Co. No. 88,036; Aug. 20; Gaz. vol. 181; p. 817.
Sauce, Seasoning. A. Dellamano. No. 86,658; May 21; Gaz vol. 178; p. 881.
Sauce, (Soy). G. Tanaka. No. 86,674; May 21; Gaz. vol. 178; p. 882.
Sauces and preparations for making bouillon and soups. G. Banthien. No. 85,059; Jan. 30; Gaz. vol. 174; p. 1211.
Saw-case and tool-carrier. B. F. Padrick. No. 88,942; Oct. 29; Gaz. vol. 183; p. 1304.
Saws. W. E. Pruden Hardware Co. No. 87,254; July 2; Gaz. vol. 180; p. 318.
Saws. National Saw Company. No. 87,652; July 30; Gaz. vol. 180; p. 1389.
Saws. National Saw Company. No. 89,491; Dec. 17; Gaz. vol. 185; p. 825.
Saws. Simonds Manufacturing Company. No. 89,509; Dec. 17; Gaz. vol. 185; p. 825.
Saws, knives, and machetes. E. C. Atkins & Company. No. 86,120; Apr. 16; Gaz. vol. 177; p. 765.
Scales. The Howe Scale Co. No. 87,997; Aug. 20; Gaz. vol. 181; p. 816.
Scales. The Avery Scale Co. No. 89,610; Dec. 31; Gaz. vol. 185; p. 1373.
Scales, Platform-. The Stimpson Scale & Electric Co. Nos. 86,631–2; May 21; Gaz. vol. 178; p. 881.
Scales, Truck-. E. L. Gage. No. 87,064; June 25; Gaz. vol. 179; p. 1102.
Scales, Weighing-. W. Simonsson. No. 87,668; July 30; Gaz. vol. 180; p. 1389.
Scales, Weighing-. John Chatillon & Sons. Nos. 89,223–4; Dec. 3; Gaz. vol. 185; p. 243.
Scales, Weighing-. E. Edtbauer. No. 89,452; Dec. 17; Gaz. vol. 185; p. 823.
Scalp-tonic. M. J. Stebbins. No. 84,919; Jan. 9; Gaz. vol. 174; p. 582.
Scarfs, fascinators, armlets, &c. Henry E. Frankenberg Company. No. 89,352; Dec. 10; Gaz. vol. 185; p. 520.
Scents. H. Bronnley & Co. No. 87,726; Aug. 6; Gaz. vol. 181; p. 259.
Scientific apparatus, Certain. H. C. White Co. No. 89,316; Dec. 3; Gaz. vol. 185; p. 246.
Scientific appliances, Certain. H. Danzer. No. 85,848; Mar. 26; Gaz. vol. 176; p. 1065.
Scientific appliances, Certain named. J. J. Martin. Nos. 88,008–9; Aug. 20; Gaz. vol. 181; p. 816.
Scientific appliances, Certain named. Optische Anstalt C. P. Goerz Aktiengesellschaft. No. 88,938; Oct. 29; Gaz. vol. 183; p. 1304.
Scoring-pads, catalogues, circulars, and folders. Tower Mfg. & Novelty Co. No. 87,947; Aug. 13; Gaz. vol. 181; p. 538.
Scouring compound. The N. K. Fairbank Company. No. 85,571; Feb. 27; Gaz. vol. 175; p. 1094.
Scouring-powder. The Burckhardt Company. No. 85,554; Feb. 27; Gaz. vol. 175; p. 1093.
Scouring preparations. Nulac Company. No. 87,358; July 9; Gaz. vol. 180; p. 598.
Scrapers and plows. The Kilbourne & Jacobs Manufacturing Company. No. 89,036; Nov. 5; Gaz. vol. 184; p. 282.
Scrapes. Atlanta Agricultural Works. No. 86,868; June 11; Gaz. vol. 179; p. 567.
Screens, Window-. L. T. Greist. No. 88,083; Aug. 27; Gaz. vol. 181; p. 1068.
Seals, Metallic bottle-. Star Seal Company. No. 86,172; Apr. 16; Gaz. vol. 177; p. 767.
Sedative. Farbenfabriken of Elberfeld Company. No. 86,395; May 7; Gaz. vol. 178; p. 314.
Sedative and hypnotic. Farbenfabriken of Elberfeld Company. No. 87,327; July 9; Gaz. vol. 180; p. 597.
Sedative, antispasmodic, &c. J. B. Daniel. No. 86,211; Apr. 23; Gaz. vol. 177; p. 1039.
Seeds, Cantaloup-. J. A. Hart. No. 87,071; June 25; Gaz. vol. 179; p. 1102.
Seeds, Clover-. W. E. Cratz. No. 87,170; July 2; Gaz. vol. 180; p. 316.
Seeds, Clover, alsike, alfalfa, and timothy. S. W. Flower & Company. Nos. 87,190–3; July 2; Gaz. vol. 180; p. 316.
Seeds, Hay and field. P. M. Swartz & Sons. No. 88,134; Aug. 27; Gaz. vol. 181; p. 1069.
Serge. Hamilton Woolen Company. No. 88,179; Sept. 3; Gaz. vol. 182; p. 244.
Sewing-machine attachments. Greist Manufacturing Company. No. 87,623; July 30; Gaz. vol. 180; p. 1388.
Sewing-machine loopers. Dinsmore Manufacturing Company. No. 89,015; Nov. 5; Gaz. vol. 184; p. 281.
Sewing-machines, their parts and attachments. Willcox & Gibbs Sewing Machine Co. No. 86,853; June 4; Gaz. vol. 179; p. 283.
Sewing-machines, their parts and attachments. A. G. Mason. No. 86,859; June 4; Gaz. vol. 179; p. 283.
Shade fabric, Window-. Joseph Bancroft & Sons Co. No. 88,728; Oct. 22; Gaz. vol. 183; p. 1027.
Shades and light-filters used therewith. L. Reece. No. 88,521; Sept. 24; Gaz. vol. 182; p. 967.
Shades, Porch and window. Aeroshade Co. No. 87,305; July 9; Gaz. vol. 180; p. 597.
Shaft-collars. Bond Foundry and Machine Company. No. 87,721; Aug. 6; Gaz. vol. 181; p. 259.
Shampoo-paste. H. L. Webber & Company. No. 86,846; June 4; Gaz. vol. 179; p. 283.
Shaving-pastes. The Chemo-Craft Company. No. 89,441; Dec. 17; Gaz. vol. 185; p. 823.
Shawl-straps, pocket-books, school-bags, &c. Tower Manufacturing & Novelty Co. No. 87,499; July 16; Gaz. vol. 180; p. 876.
Shears, knives, and razors. Foery & Bauer. No. 85,237; Feb. 6; Gaz. vol. 175; p. 259.
Sheep-dip, germicide, vermicide, and disinfectant. Wabash Chemical Co. No. 85,891; Mar. 26; Gaz. vol. 176; p. 1066.
Sheetings and drillings. Piedmont Mfg. Co. No. 87,103; June 25; Gaz. vol. 179; p. 1103.
Sheets and pillow-cases. Naumkeag Steam Cotton Co. No. 87,554; July 23; Gaz. vol. 180; p. 1134.
Sheets and pillow-cases. Naumkeag Steam Cotton Co. No. 89,052; Nov. 5; Gaz. vol. 184; p. 282.
Sheets and sheeting, Waterproof. The Canfield Rubber Company. No. 85,556; Feb. 27; Gaz. vol. 175; p. 1093.
Sheets, sheetings, pillow-cases, and cotton piece goods. Utica Steam and Mohawk Valley Cotton Mills. Nos. 87,383–4; July 9; Gaz. vol. 180; p. 599.
Shellac. G. A. Alden & Co. No. 85,895; Mar. 26; Gaz. vol. 176; p. 1066.
Shellac, White gum-. W. H. Zinsser. No. 85,540; Feb. 20; Gaz. vol. 175; p. 841.
Shelving, Portable. J. Lund. No. 89,192; Nov. 19; Gaz. vol. 184; p. 799.
Shingles, flooring, and siding-boards, Wooden. Hammer Lumber Company. No. 86,403; May 7; Gaz. vol. 178; p. 314.
Shirt-waists. B. Shoenfeld. No. 84,918; Jan. 9; Gaz. vol. 174; p. 582.
Shirt-waists, skirts, aprons, and caps, Nurses'. Bertha Mfg. Co. No. 86,495; May 7; Gaz. vol. 178; p. 317.
Shirts. M. H. Ellenbogen & Sons. No. 84,948; Jan. 16; Gaz. vol. 174; p. 823.
Shirts. The Ohio Garment Company. No. 85,609; Feb. 27; Gaz. vol. 175; p. 1095.
Shirts. New Columbia Shirt Company. No. 86,150; Apr. 16; Gaz. vol. 177; p. 766.
Shirts. Oppenheim, Oberndorf & Co. No. 87,916; Aug. 13; Gaz. vol. 181; p. 537.
Shirts. J. Loewy & Co. No. 88,764; Oct. 22; Gaz. vol. 183; p. 1028.
Shirts. Loyal Shirt Company. No. 88,765; Oct. 22; Gaz. vol. 183; p. 1028.
Shirts. Wm. R. Moore Dry Goods Co. Nos. 88,773–4; Oct. 22; Gaz. vol. 183; p. 1028.
Shirts. Westerly Shirt Co. Nos. 88,813–15; Oct. 22; Gaz. vol. 183; p. 1029.
Shirts. The Yorke Shirt Co. No. 89,729; Dec. 31; Gaz. vol. 185; p. 1377.
Shirts and ladies' waists, Dress-. Livingston & Lieberman. No. 88,900; Oct. 29; Gaz. vol. 183; p. 1303.
Shirts and trousers. Birdsall Brothers Co. No. 85,062; Jan. 30; Gaz. vol. 174; p. 1211.
Shirts and trousers, Work. Ely & Walker Dry Goods Co. No. 86,520; May 14; Gaz. vol. 178; p. 587.
Shirts and underwear. Cohen Bros. Company. No. 85,327; Feb. 13; Gaz. vol. 175; p. 537.
Shirts, drawers, corset-covers, and corsets. Deimel Linen Mesh System Company. No. 88,740; Oct. 22; Gaz. vol. 183; p. 1027.
Shirts, Men's outer. J. L. Gutman. No. 85,579; Feb. 27; Gaz. vol. 175; p. 1094.
Shirts, overalls, and rompers, Work-. McCawley & Co. No. 84,786; Jan. 2; Gaz. vol. 174; p. 285.
Shirts, undershirts, drawers, trousers, hosiery, &c. Watts Brothers Company. No. 86,845; June 4; Gaz. vol. 179; p. 283.
Shirts, Work-. P. W. Rouss. No. 87,485; July 16; Gaz. vol. 180; p. 875.
Shirts, Work-. Salant & Salant. No. 87,487; July 16; Gaz. vol. 180; p. 875.
Shoe-counters. Gardiner, Beardsell & Company. Nos. 85,804–5; Mar. 19; Gaz. vol. 176; p. 745.
Shoe-finishing paste. S. M. Bixby & Co. No. 85,548; Feb. 27; Gaz. vol. 175; p. 1093.
Shoe, leather, metal, and stove polish, and cleaning compound. S. Clague. No. 85,075; Jan. 30; Gaz. vol. 174; p. 1211.
Shoe-polish. Shinola Company. No. 87,490; July 16; Gaz. vol. 180; p. 875.
Shoe-polish. R. Laraia. No. 88,095; Aug. 27; Gaz. vol. 181; p. 1068.

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Shoe-polish. Vanity Manufacturing Company. No. 88,140; Aug. 27; Gaz. vol. 181; p. 1070.
Shoe-polish pastes. A. C. Howard Polish Company. No. 89,184; Nov. 19; Gaz. vol. 184; p. 799.
Shoes. Thomas G. Plant Company. No. 86,615; May 21; Gaz. vol. 178; p. 880.
Shoes. Ashe, Noyes & Small Co. No. 87,708; Aug. 6; Gaz. vol. 181; p. 259.
Shoes. S. B. Foot & Co. No. 89,545; Dec. 24; Gaz. vol. 185; p. 1049.
Shoes and parts thereof. Thomas G. Plant Company. No. 85,992; Apr. 2; Gaz. vol. 177; p. 236.
Shoes and slippers. Filsinger-Boette Shoe Co. No. 86,396; May 7; Gaz. vol. 178; p. 314.
Shoes and slippers. Rosenthal & Stark. No. 89,703; Dec. 31; Gaz. vol. 185; p. 1376.
Shoes, Children's. Sears, Roebuck and Co. No. 88,372; Sept. 10; Gaz. vol. 182; p. 507.
Shoes, Leather. Bedford-Pittman Company. No. 84,719; Jan. 2; Gaz. vol. 174; p. 283.
Shoes, Leather. M. L. Hatheway. No. 84,828; Jan. 9; Gaz. vol. 174; p. 580.
Shoes, Leather. Adams Shoe Company. No. 86,862; June 11; Gaz. vol. 179; p. 567.
Shoes, Leather. O. Marks & Son. No. 88,007; Aug. 20; Gaz. vol. 181; p. 816.
Shoes, Leather. Aug. Wright Co. No. 88,145; Aug. 27; Gaz. vol. 181; p. 1070.
Shoes, Leather. A. E. Nettleton Company. No. 88,778; Oct. 22; Gaz. vol. 183; p. 1028.
Shoes, Leather. Carruthers Jones Shoe Co. No. 88,841; Oct. 29; Gaz. vol. 183; p. 1301.
Shoes, Leather. Crawford & Bowdle. No. 88,852; Oct. 29; Gaz. vol. 183; p. 1302.
Shoes, Leather. J. G. Grieb & Sons. No. 88,870; Oct. 29; Gaz. vol. 183; p. 1302.
Shoes, Leather. Kalt-Zimmers Mfg. Co. No. 89,375; Dec. 10; Gaz. vol. 185; p. 520.
Shoes, Leather and canvas. Kirk-Dunning Co. No. 86,810; June 4; Gaz. vol. 179; p. 282.
Shoes, Sporting-. Golden Sporting Shoe Co. No. 88,868; Oct. 29; Gaz. vol. 183; p. 1302.
Shoes, Women's. The Brown Shoe Co. No. 87,038; June 25; Gaz. vol. 179; p. 1101.
Shoes, Women's. J. G. Tavares. No. 88,972; Oct. 29; Gaz. vol. 183; p. 1305.
Shoulder-braces and suspenders. P. Bailly & Cie. No. 89,327; Dec. 10; Gaz. vol. 185; p. 519.
Shovels. The Wyoming Shovel Works. No. 89,728; Dec. 31; Gaz. vol. 185; p. 1377.
Shovels, spades, and scoops. Ames Shovel and Tool Company. No. 86,365; May 7; Gaz. vol. 178; p. 313.
Shovels, spades, scoops, and drainage-tools. Ames Shovel and Tool Company. Nos. 85,722–3; Mar. 12; Gaz. vol. 176; p. 521.
Shovels, spades, scoops, and drainage-tools. Ames Shovel and Tool Company. Nos. 85,789–90; Mar. 19; Gaz. vol. 176; p. 745.
Show-cases. Detroit Show Case Co. No. 89,447; Dec. 17; Gaz. vol. 185; p. 823.
Show-cases, wardrobes, window-backs, &c. John Hofman Co. No. 86,531; May 14; Gaz. vol. 178; p. 588.
Sieves, Ash-barrel. Dover Stamping and Manufacturing Company. No. 88,559; Oct. 1; Gaz. vol. 183; p. 213.
Silk. Industrial Thrown Silk Co. No. 87,632; July 30; Gaz. vol. 180; p. 1388.
Silk and worsted piece goods, Mixed. E. B. Moore & Co. No. 85,673; Mar. 5; Gaz. vol. 176; p. 270.
Silk fabric, Artificial-. C. G. Girvan. No. 89,354; Dec. 10; Gaz. vol. 185; p. 520.
Silk foulard. Marshall Field & Company. No. 85,425; Feb. 20; Gaz. vol. 175; p. 837.
Silk piece goods. The New York Skirt Co. No. 86,151; Apr. 16; Gaz. vol. 177; p. 766.
Silk shirtings. Finn and Meyers. No. 86,213; Apr. 23; Gaz. vol. 177; p. 1039.
Silk-treating substances. T. Goldschmidt. No. 85,108; Jan. 30; Gaz. vol. 174; p. 1212.
Silks and satins in the piece. Newburgh Silk Company. No. 88,781; Oct. 22; Gaz. vol. 183; p. 1028.
Silver and silver-mounted tableware, jewelry, &c., Sterling-. Rogers, Lunt & Bowlen Co. No. 88,364; Sept. 10; Gaz. vol. 182; p. 507.
Silver-plated flat and hollow ware. Paul Revere Silver Company. No. 85,682; Mar. 5; Gaz. vol. 176; p. 270.
Silver polish and cleanser. Old Colony Cleanser Company. No. 85,166; Jan. 30; Gaz. vol. 174; p. 1214.
Sink, bath, and basin stoppers and plugs, bumpers, &c. Schacht & Co. No. 87,260; July 2; Gaz. vol. 180; p. 318.
Size for certain uses, Specially-prepared. The Cott-a-lap Company. No. 88,737; Oct. 22; Gaz. vol. 183; p. 1027.
Skin-softening compound. A. I. Maghina. No. 87,137; July 2; Gaz. vol. 180; p. 315.
Skin-stain removers. C. H. Lips. No. 85,711; Mar. 5; Gaz. vol. 176; p. 271.
Skins, Chamois-. James H. Rhodes & Company. Nos. 88,589–90; Oct. 1; Gaz. vol. 183; p. 214.
Skins, Finished goat-. Brown, Dexter Co. No. 87,420; July 16; Gaz. vol. 180; p. 873.
Skirts and blouses, Outer. H. N. Frank & Co. Nos. 87,618–19; July 30; Gaz. vol. 180; p. 1388.
Skirts, Ladies' outer. The Queen Mfg. Co. No. 85,001; Jan. 16; Gaz. vol. 174; p. 825.
Sleds, Children's. York Novelty Co. No. 86,016; Apr. 2; Gaz. vol. 177; p. 237.
Slicing machines and meat-slicers, Meat-. U. S. Slicing Machine Company. Nos. 87,290–1; July 2; Gaz. vol. 180; p. 319.
Slicing machines and slicers, Meat. U. S. Slicing Machine Company. No. 88,220; Sept. 3; Gaz. vol. 182; p. 245.
Slippers. Sultana Mfg. Company. No. 88,384; Sept. 10; Gaz. vol. 182; p. 507.
Slippers, House-. Blum Shoe Mfg. Co. No. 86,693; May 28; Gaz. vol. 178; p. 1147.
Soap. Geo. Borgfeldt & Co. No. 85,065; Jan. 30; Gaz. vol. 174; p. 1211.
Soap. F. H. Daland. No. 85,086; Jan. 30; Gaz. vol. 174; p. 1212.
Soap. The Globe Soap Company. No. 85,106; Jan. 30; Gaz. vol. 174; p. 1212.
Soap. Richard Hudnut. No. 85,127; Jan. 30; Gaz. vol. 174; p. 1213.
Soap. The Burckhardt Company. No. 85,409; Feb. 20; Gaz. vol. 175; p. 837.
Soap. Geo. Borgfeldt & Co. No. 86,123; Apr. 16; Gaz. vol. 177; p. 765.
Soap. A. A. Vantine & Co. No. 86,186; Apr. 16; Gaz. vol. 177; p. 767.
Soap. J. M. Grosvenor & Co. No. 86,296; Apr. 30; Gaz. vol. 177; p. 1292.
Soap. The Pennsylvania Soap Company. No. 86,549; May 14; Gaz. vol. 178; p. 588.
Soap. B. T. Babbitt. No. 87,711; Aug. 6; Gaz. vol. 181; p. 259.
Soap. Richard Hudnut. Nos. 87,888–9; Aug. 13; Gaz. vol. 181; p. 536.
Soap. B. T. Babbitt. No. 88,155; Sept. 3; Gaz. vol. 182; p. 243.
Soap. The Stork Company. No. 88,531; Sept. 24; Gaz. vol. 182; p. 967.
Soap. Richard Hudnut. No. 89,112; Nov. 12; Gaz. vol. 184; p. 546.
Soap. The H. R. Hollingshead Co. No. 89,465; Dec. 17; Gaz. vol. 185; p. 824.
Soap and washing-powder. The Summit City Soap Works. No. 88,801; Oct. 22; Gaz. vol. 183; p. 1029.
Soap, Antiseptic. J. W. Thomas. No. 86,350; Apr. 30; Gaz. vol. 177; p. 1293.
Soap, Extract of. R. S. Hudson, Limited. No. 85,128; Jan. 30; Gaz. vol. 174; p. 1213.
Soap, Laundry. Haskins Bros. & Co. No. 89,109; Nov. 12; Gaz. vol. 184; p. 546.
Soap, Laundry. The Yale Soap & Refining Company. No. 89,172; Nov. 12; Gaz. vol. 184; p. 547.
Soap, Laundry. The Yale Soap & Refining Company. No. 89,592; Dec. 24; Gaz. vol. 185; p. 1051.
Soap, Laundry and toilet. J. Landrock. No. 87,082; June 25; Gaz. vol. 179; p. 1102.
Soap, Paste. Git Mfg. Co. No. 85,858; Mar. 26; Gaz. vol. 176; p. 1065.
Soap paste and hand-soap, Carbolized. Monybak Mfg. Company. No. 86,432; May 7; Gaz. vol. 178; p. 315.
Soap powder and soap. Thos. Roulston, Inc. No. 89,146; Nov. 12; Gaz. vol. 184; p. 547.
Soap, Scouring-. Bon Ami Company. No. 88,548; Oct. 1; Gaz. vol. 183; p. 213.
Soap, Shaving-. Hylin & Co. Fabriks Aktiebolag. No. 85,585; Feb. 27; Gaz. vol. 175; p. 1094.
Soap, Solid and liquid. Richard Hudnut. Nos. 87,073–4; June 25; Gaz. vol. 179; p. 1102.
Soap, Toilet. The Andrew Jergens Co. No. 85,132; Jan. 30; Gaz. vol. 174; p. 1213.
Soap, Toilet. Norddeutsche Wollkämmerei & Kammgarnspinnerei. Nos. 85,161–2; Jan. 30; Gaz. vol. 174; p. 1214.
Soap, Toilet. Vero-Form Hygienic Company. No. 85,207; Jan. 30; Gaz. vol. 174; p. 1215.
Soaps, Toilet. Andrew Jergens Co. No. 85,749; Mar. 12; Gaz. vol. 176; p. 522.
Soap, Toilet. Norddeutsche Wollkämmerei & Kammgarnspinnerei. No. 87,097; June 25; Gaz. vol. 179; p. 1103.
Soap, Toilet. Robinson Bros. & Company. No. 87,104; June 25; Gaz. vol. 179; p. 1103.
Soap, Toilet. James S. Kirk & Company. No. 88,091; Aug. 27; Gaz. vol. 181; p. 1068.
Soap, Toilet. Norddeutsche Wollkämmerei & Kammgarnspinnerei. No. 88,517; Sept. 24; Gaz. vol. 182; p. 967.
Soap, Toilet. J. T. Stanley. No. 88,530; Sept. 24; Gaz. vol. 182; p. 967.
Soap, Toilet. The Standard Soap Company. No. 88,642; Oct. 8; Gaz. vol. 183; p. 500.
Soap, Toilet. Geo. Borgfeldt & Co. No. 89,090; Nov. 12; Gaz. vol. 184; p. 545.
Soap, Toilet and bath. Gowan Medical Company. No. 88,568; Oct. 1; Gaz. vol. 183; p. 213.
Soap, Toilet and laundry. Robinson Bros. & Company. No. 87,105; June 25; Gaz. vol. 179; p. 1103.

Alphabetical list of trade-marks—Continued.

Soap, Toilet and laundry. Holbrook Mfg. Co. No. 87,339; July 9; Gaz. vol. 180; p. 598.
Soap, Toilet and laundry. James S. Kirk & Company. No. 89,120; Nov. 12; Gaz. vol. 184; p. 546.
Soap, Toilet and salt-water. The Morgan Drug Co. No. 87,093; June 25; Gaz. vol. 179; p. 1103.
Soap, Toilet and shaving. The Oxypathor Co. No. 87,793; Aug. 6; Gaz. vol. 181; p. 261.
Soap, Washing-. Idaho Soap Company. No. 87,076; June 25; Gaz. vol. 179; p. 1102.
Soaps. Johnson & Johnson. No. 88,088; Aug. 27; Gaz. vol. 181; p. 1068.
Soaps. Peninsular Chemical Co. No. 88,110; Aug. 27; Gaz. vol. 181; p. 1069.
Soaps. A. Bell & Company. No. 88,456; Sept. 24; Gaz. vol. 182; p. 965.
Soaps and cleansing-powders. O. H. Foerster. No. 86,524; May 14; Gaz. vol. 178; p. 587.
Soaps and soap powders. Colgate & Co. No. 88,666; Oct. 15; Gaz. vol. 183; p. 777.
Soaps, Medicated and toilet. Retailers' Coöperative Association. No. 89,143; Nov. 12; Gaz. vol. 184; p. 547.
Soaps, Shaving and toilet. The J. B. Williams Company. No. 86,854; June 4; Gaz. vol. 179; p. 283.
Soaps, Shaving and toilet. The J. B. Williams Company. No. 87,133; June 25; Gaz. vol. 179; p. 1104.
Soaps, Shaving and toilet. The J. B. Williams Company. Nos. 87,832–3; Aug. 6; Gaz. vol. 181; p. 263.
Soaps, Toilet. A. L. Mock. No. 87,090; June 25; Gaz. vol. 179; p. 1103.
Socks, Men's. J. B. Hirshfeld. No. 89,359; Dec. 10; Gaz. vol. 185; p. 520.
Soda-ash. Fry Bros. & Company. No. 88,866; Oct. 29; Gaz. vol. 183; p. 1302.
Soda, bleaching-powder, and sulfur chlorid, Caustic. Hooker Electrochemical Company. No. 84,909; Jan. 9; Gaz. vol. 174; p. 582.
Soda, Caustic. Burgess Sulphite Fibre Company. No. 84,725; Jan. 2; Gaz. vol. 174; p. 283.
Soda, Certain flavored. The Wil-Mar Bottling Co. No. 85,023; Jan. 16; Gaz. vol. 174; p. 826.
Soda crystals. J. T. Kenny & Company. No. 88,892; Oct. 29; Gaz. vol. 183; p. 1303.
Soda for cooking. Royal Baking Powder Company. No. 84,916; Jan. 9; Gaz. vol. 174; p. 582.
Soda-water. Richard Hudnut. No. 89,657; Dec. 31; Gaz. vol. 185; p. 1374.
Soda-water drink. J. P. Williams. No. 88,988; Oct. 29; Gaz. vol. 183; p. 1305.
Soda-water syrup. Magnus & Lauer, No. 88,766; Oct. 22; Gaz. vol. 183; p. 1028.
Soil-bacteria, Cultures of. Earp-Thomas Farmogerm Company. No. 85,332; Feb. 13; Gaz. vol. 175; p. 537.
Solder. Marvel Solder Co. No. 85,266; Feb. 6; Gaz. vol. 175; p. 260.
Solder. National Lead Company. No. 89,573; Dec. 24; Gaz. vol. 185; p. 1050.
Soles, Leather. United States Chrome Sole Co. No. 88,810; Oct. 22; Gaz. vol. 183; p. 1029.
Soles, Tap-. Leas & McVitty. No. 88,314; Sept. 10; Gaz. vol. 182; p. 505.
Solution for the treatment of catarrh, Alkaline. Wheeler Chemical Co. No. 86,849; June 4; Gaz. vol. 179; p. 283.
Solvents for resins, oils, and perfumes. Actien-Gesellschaft für Anilin-Fabrikation. No. 89,595; Dec. 31; Gaz. vol. 185; p. 1073.
Sorghum and sorghum compounds. Fort Scott Sorghum Syrup Company. No. 89,102; Nov. 12; Gaz. vol. 184; p. 545.
Sound-record blanks. Columbia Phonograph Company, General. No. 86,978; June 18; Gaz. vol. 179; p. 847.
Sound-records, Machines for recording dictation, reproducing sounds from and for shaving. Columbia Phonograph Company General. No. 89,227; Dec. 3; Gaz. vol. 185; p. 243.
Sound recording and reproducing machines and parts thereof. Victor Talking Machine Company. No. 88,391; Sept. 10; Gaz. vol. 182; p. 507.
Soup-bases and sauces. A. H. Landsberger. No. 89,191; Nov. 19; Gaz. vol. 184; p. 799.
Soups, butter, preserved and canned vegetables. Merrell-Soule Co. No. 86,313; Apr. 30; Gaz. vol. 177; p. 1292.
Sower, Hand seed-. A. C. Shiveley. No. 85,689; Mar. 5; Gaz. vol. 176; p. 270.
Soy, Japanese. J. Iwasaki. No. 87,214; July 2; Gaz. vol. 180; p. 317.
Spaces and quadrats. S. Stephens. No. 89,515; Dec. 17; Gaz. vol. 185; p. 825.
Spark-plugs. The Bigsby Manufacturing Company. No. 85,060; Jan. 30; Gaz. vol. 174; p. 1211.
Spark-plugs. The Marshalltown Motor Material Mfg. Co. No. 86,423; May 7; Gaz. vol. 178; p. 315.
Spark-plugs. The Kansas City Automobile Supply Co. No. 86,913; June 11; Gaz. vol. 179; p. 568.
Spark-plugs. Progressive Mfg. Co. No. 87,253; July 2; Gaz. vol. 180; p. 318.
Spark-plugs. The Hartford Machine Screw Company. Nos. 87,757–8; Aug. 6; Gaz. vol. 181; p. 260.
Spark-plugs. Rex Ignition Manufacturing Co. No. 87,809; Aug. 6; Gaz. vol. 181; p. 262.
Spark-plugs, terminals, protectors, &c. Mac-Kae Manufacturing Company. No. 86,919; June 11; Gaz. vol. 179; p. 568.
Spectacle and eyeglass lenses. Merry Optical Company. No. 87,641; July 30; Gaz. vol. 180; p. 1388.
Spectacle-lenses. The F. W. King Optical Company. No. 89,377; Dec. 10; Gaz. vol. 185; p. 520.
Spectacles, eyeglasses, mountings, &c. F. Hamilton. No. 87,994; Aug. 20; Gaz. vol. 181; p. 816.
Speed-indicating instruments. Stewart & Clark Manufacturing Company. No. 86,005; Apr. 2; Gaz. vol. 177; p. 237.
Sphygmomanometers. Eimer & Amend. No. 87,054; June 25; Gaz. vol. 179; p. 1102.
Spices. Getz Bros. & Co. No. 88,077; Aug. 27; Gaz. vol. 181; p. 1068.
Spices. The Murray Drug Co. No. 88,412; Sept. 17; Gaz. vol. 182; p. 717.
Spinning and twister rings. Whitinsville Spinning Ring Company. No. 86,751; May 28; Gaz. vol. 178; p. 1149.
Spool and sewing cotton, thread, and cotton yarn. The American Thread Company. Nos. 85,217–19; Feb. 6; Gaz. vol. 175; p. 259.
Spool and sewing cotton, thread, and cotton yarn. The American Thread Company. No. 85,543; Feb. 27; Gaz. vol. 175; p. 1093.
Spool-cotton, sewing-cotton, thread, and cotton yarn. American Thread Company. Nos. 84,801–2; Jan. 9; Gaz. vol. 174; p. 579.
Spoon and trolling hooks. J. J. Hildebrandt. No. 88,290; Sept. 10; Gaz. vol. 182; p. 505.
Spoons and forks. Mettmanner Britanniawarenfabrik W. Seibel. No. 88,580; Oct. 1; Gaz. vol. 183; p. 214.
Sporting goods and toys, Certain named. C. M. McClung & Co. No. 88,508; Sept. 24; Gaz. vol. 182; p. 967.
Sporting goods, Certain. Victor Sporting Goods Company. No. 85,779; Mar. 12; Gaz. vol. 176; p. 522.
Sporting goods, Certain. Newton Line Company. No. 86,441; May 7; Gaz. vol. 178; p. 315.
Sporting goods, Certain. Wm. Enders Manufacturing Company. No. 87,183; July 2; Gaz. vol. 180; p. 316.
Sporting goods, Certain named. E. J. Martin's Sons. No. 88,684; Oct. 15; Gaz. vol. 183; p. 778.
Sporting goods, Certain named. South Bend Bait Co. No. 89,384; Dec. 10; Gaz. vol. 185; p. 521.
Spraying device. F. O. Hilfiker Co. No. 84,742; Jan. 2; Gaz. vol. 174; p. 284.
Spraying vegetation, Chemical for. Barium Products Company. No. 87,715; Aug. 6; Gaz. vol. 181; p. 259.
Stains, Wood-. Louisville Varnish Co. No. 89,676; Dec. 31; Gaz. vol. 185; p. 1375.
Stamps, Premium-. M. Berg. No. 86,657; May 21; Gaz. vol. 178; p. 881.
Stamps, Trading-. A. H. Hansen. No. 86,220; Apr. 23; Gaz. vol. 177; p. 1039.
Stamps, Trading-. H. & J. J. Pommer. No. 88,786; Oct. 22; Gaz. vol. 183; p. 1029.
Starch. National Starch Company. No. 84,912; Jan. 9; Gaz. vol. 174; p. 582.
Starch. J. Morningstar. No. 85,470; Feb. 20; Gaz. vol. 175; p. 839.
Starch. Société Anonyme Des Usines Remy. No. 86,947; June 11; Gaz. vol. 179; p. 569.
Starch and blue, Laundry. Reckitt & Sons. No. 85,714; Mar. 5; Gaz. vol. 176; p. 271.
Starch, Edible. National Starch Company. No. 84,852; Jan. 9; Gaz. vol. 174; p. 580.
Starch, Edible. National Starch Company. No. 85,159; Jan. 30; Gaz. vol. 174; p. 1214.
Starch finish. P. D. Moody. No. 89,410; Dec. 10; Gaz. vol. 185; p. 521.
Starch, Laundry. W. Grossman. No. 86,402; May 7; Gaz. vol. 178; p. 314.
Starch, Laundry. National Starch Co. No. 87,245; July 2; Gaz. vol. 180; p. 318.
Starch, Laundry. Corn Products Refining Company. No. 87,323; July 9; Gaz. vol. 180; p. 597.
Starch, Laundry. A. Doege. No. 88,857; Oct. 29; Gaz. vol. 183; p. 1302.
Starch polish, Laundry-. E. A. Bromund Company. No. 87,419; July 16; Gaz. vol. 180; p. 873.
Starches, Laundry and chemical. B. P. Ducas Co. No. 84,731; Jan. 2; Gaz. vol. 174; p. 283.
Stationery, Certain named. Birmingham Paper Co. No. 87,593; July 30; Gaz. vol. 180; p. 1387.
Stationery, Certain named articles of. J. G. Shaw Blank Book Company. No. 88,964; Oct. 29; Gaz. vol. 183; p. 1305.
Stationery material, Certain. F. Soennecken. No. 87,673; July 30; Gaz. vol. 180; p. 1389.
Stationery supplies. A. W. Faber. Nos. 86,522–3; May 14; Gaz. vol. 178; p. 587.
Stationery supplies, Certain. J. C. Blair Company. No. 86,270; Apr. 30; Gaz. vol. 177; p. 1291.
Stationery supplies, Certain. The O. K. Manufacturing Company. No. 86,323; Apr. 30; Gaz. vol. 177; p. 1292.

Alphabetical list of trade-marks—Continued.

Stationery supplies, Certain. A. W. Faber. No. 86,582; May 21; Gaz. vol. 178; p. 879.
Stationery supplies, Certain named. Tower Manufacturing & Novelty Co. No. 89,305; Dec. 3; Gaz. vol. 185; p. 245.
Steam-traps. Morehead Manufacturing Company. No. 87,237; July 2; Gaz. vol 180; p. 318.
Steel. Krefeld Steel Works Company. No. 88,003; Aug. 20; Gaz. vol. 181; p. 816.
Steel. Krefeld Steel Works Company. No. 88,608; Oct. 1; Gaz. vol. 183; p. 215.
Steel and anvils, Tool-. Söderfors Bruks Aktiebolag. No. 86,102; Apr. 9; Gaz. vol. 177; p. 521.
Steel bars. Cumberland Steel Company. No. 89,096; Nov. 12; Gaz. vol. 184; p. 545.
Steel bars, plates, castings, forgings, and ingots. E. Dörrenberg Söhne. No. 87,052; June 25; Gaz. vol. 179; p. 1101.
Steel, Cast-. W. T. Flather Limited. No. 88,482; Sept. 24; Gaz. vol. 182; p. 966.
Steel castings, Manganese-. Edgar Allen American Manganese Steel Company. No. 86,261; Apr. 30; Gaz. vol. 177; p. 1291.
Steel, Chemical composition for hardening low-carbon. American Infusion Steel Process Co. No. 88,546; Oct. 1; Gaz. vol. 183; p. 213.
Steel forgings, castings, and bars. A. P. Witteman Company. No. 86,357; Apr. 30; Gaz. vol. 177; p. 1293.
Steel plates. Joseph T. Ryerson & Son. No. 87,660; July 30; Gaz. vol. 180; p. 1389.
Steel, Sheet-. Deforest Sheet & Tinplate Co. No. 85,231; Feb. 6; Gaz. vol. 175; p. 259.
Steel, Sheet-. The Deforest Sheet & Tinplate Co. No. 87,861; Aug. 13; Gaz. vol. 181; p. 535.
Steel, steel castings and forgings. W. T. Flather Limited. No. 88,481; Sept. 24; Gaz. vol. 182; p. 966.
Steel-tempering preparation. E. Reaves. No. 86,086; Apr. 9; Gaz. vol. 177; p. 521.
Steel, Tool-. Firth-Sterling Steel Company. No. 84,736; Jan. 2; Gaz. vol. 174; p. 283.
Steel, Tool-. J. J. Saville & Company. No. 85,920; Mar. 26; Gaz. vol. 176; p. 1067.
Steel, Tool-. Söderfors Bruks Aktiebolag. Nos. 86,099–101; Apr. 9; Gaz. vol. 177; p. 521.
Steel, Tool-. Söderfors Bruks Aktiebolag. No. 86,103; Apr. 9; Gaz. vol. 177; p. 521.
Steering-gears. Jackson-Church-Wilcox Co. No. 86,912; June 11; Gaz. vol. 179; p. 568.
Stiffening cords, blades, and tapes. The Warren Featherbone Company. No. 85,209; Jan. 30; Gaz. vol. 174; p. 1215.
Stiffening cords, blades, and tapes. The Warren Featherbone Company. No. 85,629; Feb. 27; Gaz. vol. 175; p. 1095.
Stiffening cords, blades, and tapes. Warren Featherbone Company. No. 87,386; July 9; Gaz. vol. 180; p. 599.
Stockings. O'Callaghan & Fedden. No. 85,478; Feb. 20; Gaz. vol. 175; p. 839.
Stockings. Joseph Black & Sons Company. No. 88,729; Oct. 22; Gaz. vol. 183; p. 1027.
Stone, Crushed. Lake Shore Stone Company. No. 88,499; Sept. 24; Gaz. vol. 182; p. 966.
Stone-polishing preparation. A. Armor. No. 85,405; Feb. 20; Gaz. vol. 175; p. 837.
Stones, Artificial building-. Kingstone Ornamental & Construction Company. No. 86,141; Apr. 16; Gaz. vol. 177; p. 765.
Stout, beer, porter, wine, &c. Bass, Ratcliff & Gretton. Nos. 88,264–5; Sept. 10; Gaz. vol. 182; p. 504.
Stout, beer, porter, wine, &c. Bass, Ratcliff & Gretton. No. 88,267; Sept. 10; Gaz. vol. 182; p. 504.
Stove-polish. F. F. Dalley Co. of Hamilton. No. 85,733; Mar. 12; Gaz. vol. 176; p. 521.
Stove-polish. C. V. Sturtevant. No. 86,745; May 28; Gaz. vol. 178; p. 1149.
Stove-polish. Gillan & Gillan. No. 86,800; June 4; Gaz. vol. 179; p. 282.
Stove-polish. Empress Manufacturing Company. No. 88,072; Aug. 27; Gaz. vol. 181; p. 1068.
Stove-polish. W. I. Goodrich. No. 88,567; Oct. 1; Gaz. vol. 183; p. 213.
Stoves. Sears, Roebuck and Co. No. 85,045; Jan. 23; Gaz. vol. 174; p. 1023.
Stoves and ranges, Enameled-metal. The Porceliron Company. No. 87,798; Aug. 6; Gaz. vol. 181; p. 262.
Stoves, Certain kinds of heating and cooking. Olive Stove Works. No. 88,585; Oct. 1; Gaz. vol. 183; p. 214.
Stoves, Gasolene-. Sears, Roebuck and Co. No. 85,046; Jan. 23; Gaz. vol. 174; p. 1023.
Stoves, lamps, and heaters, Oil. Standard Oil Company of Brazil. No. 87,376; July 9; Gaz. vol. 180; p. 599.
Stoves, ranges, and furnaces. The Monitor Stove and Range Company. No. 85,041; Jan. 23; Gaz. vol. 174; p. 1023.
Stoves, ranges, blowers, forges, &c. C. M. McClung & Co. Nos. 87,901–2; Aug. 13; Gaz. vol. 181; pp. 536–7.
Stoves, ranges, blowers, forges, and lanterns. C. M. McClung & Co. No. 88,104; Aug. 27; Gaz. vol. 181; p. 1068.
Stoves, ranges, furnaces, &c., Certain named. General Gas Appliance Co. No. 87,748; Aug. 6; Gaz. vol. 181; p. 260.
Stoves, soldering-lamps, and parts thereof and accessories. Aktiebolaget B. A. Hjorth & Co. No. 85,541; Feb. 27; Gaz. vol. 175; p. 1093.
Strops and soaps. Auto Strop Safety Razor Co. No. 88,048; Aug. 27; Gaz. vol. 181; p. 1067.
Strops and soaps. Auto Strop Safety Razor Co. No. 89,082; Nov. 12; Gaz. vol. 184; p. 545.
Sugar. American Sugar Refining Company. Nos. 87,392–402; July 16; Gaz. vol. 180; p. 873.
Sugar. The American Sugar Refining Company. No. 88,229; Sept. 10; Gaz. vol. 182; p. 503.
Sugar. The American Sugar Refining Company. No. 88,444; Sept. 24; Gaz. vol. 182; p. 965.
Sugar. Pennsylvania Sugar Company. No. 89,138; Nov. 12; Gaz. vol. 184; p. 546.
Sugar and cane-syrup, Compound of maple-. C. M. Tice. No. 86,178; Apr. 16; Gaz. vol. 177; p. 767.
Sugar, Cane-. J. Redelheim. No. 88,203; Sept. 3; Gaz. vol. 182; p. 244.
Sugar, cane-sugar, and corn-syrup, Mixture of maple-. St. Paul Syrup Refining Company. No. 86,345; Apr. 30; Gaz. vol. 177; p. 1293.
Sugar, Chemical compositions for defecation of. Compañia Explotadora del Mundator, S. A. No. 89,177; Nov. 19; Gaz. vol. 184; p. 799.
Suits and coats, Men's outer. Henlein & Greentree. No. 87,536; July 23; Gaz. vol. 180; p. 1133.
Suits and overcoats. Sheahan, Kohn & Co. No. 86,626; May 21; Gaz. vol. 178; p. 880.
Suits and overcoats, Men's. E. R. Smith & Co. No. 86,098; Apr. 9; Gaz. vol. 177; p. 521.
Suits, Bathing-. J. Pfrenger. No. 86,730; May 28; Gaz. vol. 178; p. 1148.
Suits, Boys' outer. S. Rosenthal & Bros. No. 85,180; Jan. 30; Gaz. vol. 174; p. 1214.
Suits, Children's outer. Sackman Brothers Company. No. 86,003; Apr. 2; Gaz. vol. 177; p. 237.
Suits, Men's outer. T. C. Schaffner. No. 85,379; Feb. 13; Gaz. vol. 175; p. 539.
Suits, Men's outer. A. Bloch & Company. No. 86,510; May 14; Gaz. vol. 178; p. 587.
Suits, Men's outer. S. Rosenblatt & Son. No. 87,009; June 18; Gaz. vol. 179; p. 848.
Suits, Outer. Earnsdale Worsted Company. No. 86,042; Apr. 9; Gaz. vol. 177; p. 519.
Suits, Union. M. M. Henderson. No. 86,138; Apr. 16; Gaz. vol. 177; p. 765.
Sulfate cellulose. A/S Hurum Fabriker. No. 85,129; Jan. 30; Gaz. vol. 174; p. 1213.
Sunbonnets. Brown and Bishop. No. 85,067; Jan. 30; Gaz. vol. 174; p. 1211.
Suppositories. Broude and Taylor. No. 88,838; Oct. 29; Gaz. vol. 183; p. 1301.
Surgical appliance. T. C. Jackson. No. 89,268; Dec. 3; Gaz. vol. 185; p. 244.
Surgical appliances. Rothschild, Meyers & Co. No. 86,240; Apr. 23; Gaz. vol. 177; p. 1040.
Surgical bandages. E. M. Pond. No. 89,200; Nov. 19; Gaz. vol. 184; p. 799.
Surgical bandages, surgical, sanitary, and abdominal belts. The Spirella Company. No. 85,048; Jan. 23; Gaz. vol. 174; p. 1023.
Surgical bandages, surgical, sanitary, and abdominal belts. Spirella Company. No. 86,560; May 14; Gaz. vol. 178; p. 588.
Surgical device, Orthopedic. C. Munter. No. 89,132; Nov. 12; Gaz. vol. 184; p. 546.
Suspender and garment-supporter, Combined. American Suspender Co. No. 87,514; July 23; Gaz. vol. 180; p. 1133.
Suspenders. Penn Bros. Mfg. Co. No. 84,873; Jan. 9; Gaz. vol. 174; p. 581.
Suspenders. The Scout Suspender & Specialty Mfg. Co. No. 86,945; June 11; Gaz. vol. 179; p. 569.
Suspenders and garters. The C. A. Edgarton Mfg. Co. No. 85,334; Feb. 13; Gaz. vol. 175; p. 537.
Suspensories, abdominal bands, &c. Deimel Linen Mesh System Company. No. 89,345; Dec. 10; Gaz. vol. 185; p. 519.
Sweater-coats, hoods, and mufflers. Visor Knitting Company. No. 88,984; Oct. 29; Gaz. vol. 183; p. 1305.
Sweeping compound. H. R. Cook. No. 88,469; Sept. 24; Gaz. vol. 182; p. 965.
Sweeping compound. Cedar-Sweep Company. No. 89,534; Dec. 24; Gaz. vol. 185; p. 1049.
Sweeping compound, Floor-. Wilson Chemical Co. No. 85,893; Mar. 26; Gaz. vol. 176; p. 1066.
Sweeping compounds. Wizard Products Co. No. 87,834; Aug. 6; Gaz. vol. 181; p. 263.
Sweeping compounds, Granular or comminuted. A. Rogers. No. 88,591; Oct. 1; Gaz. vol. 183; p. 214.
Syringes. F. W. Howard. No. 86,593; May 21; Gaz. vol. 178; p. 879.
Syringes and surgical thermometers, Hypodermic. Schmidt & Ade. No. 86,336; Apr. 30; Gaz. vol. 177; p. 1293.
Syrup. Mangels, Herold Co. No. 87,462; July 16; Gaz. vol. 180; p. 875.

Alphabetical list of trade-marks—Continued.

Syrup and sorghum. Fort Scott Sorghum Syrup Co. No. 87,440; July 16; Gaz. vol. 180; p. 874.
Syrup, Compound of corn and sugar. Corn Products Refining Company. No. 85,948; Apr. 2; Gaz. vol. 177; p. 235.
Syrup for a soda-fountain beverage. G. W. Wheeler. No. 88,718; Oct. 15; Gaz. vol. 183; p. 779.
Syrup for beverages. T. L. Finney. No. 87,060; June 25; Gaz. vol. 179; p. 1102.
Syrup for soda-fountain drinks. L. L. Mallard. No. 88,006; Aug. 20; Gaz. vol. 181; p. 816.
Syrup for soda-water. T. George. No. 87,989; Aug. 20; Gaz. vol. 181; p. 815.
Syrup, sago, tapioca, and corn-starch. F. B. Chamberlain Company. No. 87,040; June 25; Gaz. vol. 179; p. 1101.
Syrup, Table-. A. Lyle & Sons. No. 89,045; Nov. 5; Gaz. vol. 184; p. 282.
Syrups, extracts, and non-alcoholic beverages made therefrom. G. H. McLin. No. 87,355; July 9; Gaz. vol. 180; p. 598.
Syrups for beverages. J. Blaufuss. No. 88,158; Sept. 3; Gaz. vol. 182; p. 243.
Syrups, Table-. G. Boyd & Sons. No. 87,845; Aug. 13; Gaz. vol. 181; p. 535.
Table and kitchen ware, &c., Metal. Nürnberger Metall- und Lackierwaarenfabrik vormals Gebrüder Bing Aktiengesellschaft. No. 88,107; Aug. 27; Gaz. vol. 181; p. 1069.
Table cloths and napkins, &c. Carson, Pirie, Scott & Co. No. 85,411; Feb. 20; Gaz. vol. 175; p. 837.
Table-servers, Revolving. McGraw Manufacturing Company. No. 87,230; July 2; Gaz. vol. 180; p. 317.
Tablet, Laxative. The Sulfosol Co. No. 86,252; Apr. 23; Gaz. vol. 177; p. 1040.
Tablets, Antiseptic. William R. Warner and Company No. 88,605; Oct. 1; Gaz. vol. 183; p. 214.
Tablets, calcium wafer compounds, &c., Dyspepsia and catarrh. F. A. Stuart Company. No. 85,199; Jan. 30; Gaz. vol. 174; p. 1215.
Tablets, Dyspepsia-. N. M. Wiegand. No. 87,579; July 23; Gaz. vol. 180; p. 1135.
Tablets, Laxative. E. H. Wagner. No. 86,256; Apr. 23; Gaz. vol. 177; p. 1040.
Tablets, Malarial. C. J. Craig. No. 87,432; July 16; Gaz. vol. 180; p. 874.
Tags, Identification-. W. L. Deming. No. 89,347; Dec. 10; Gaz. vol. 185; p. 519.
Tags, writing-tablets, cards, &c., Shipping-. Tower Manufacturing & Novelty Co. No. 88,033; Aug. 20; Gaz. vol. 181; p. 817.
Talking-machines and parts of same. Victor Talking Machine Company. No. 87,827; Aug. 6; Gaz. vol. 181; p. 262.
Talking-machines and parts thereof. American Graphophone Company. No. 84,714; Jan. 2; Gaz. vol. 174; p. 283.
Talking-machines, phonographs, and certain parts thereof. Carl Lindström Aktien Gesellschaft. No. 85,822; Mar. 19; Gaz. vol. 176; p. 746.
Tankage. The National Utilization Co. No. 84,790; Jan. 2; Gaz. vol. 174; p. 285.
Tanks. Flint and Walling Manufacturing Co. No. 88,074; Aug. 27; Gaz. vol. 181; p. 1068.
Tanks for chemical fluids. Stewart & Holmes Drug Company. No. 86,474; May 7; Gaz. vol. 178; p. 316.
Tanks, Gasolene-storage. W. S. Sheppard Tank Dept. No. 87,814; Aug. 6; Gaz. vol. 181; p. 262.
Tanning and dyeing extracts. C. A. Spencer & Son Company. No. 85,383; Feb. 13; Gaz. vol. 175; p. 539.
Tapes and parts thereof, Steel. The Standard Rule Co. No. 86,173; Apr. 16; Gaz. vol. 177; p. 767.
Tapioca, Pearl. Francis H. Leggett & Co. No. 85,143; Jan. 30; Gaz. vol. 174; p. 1213.
Taps, drills, wrenches, &c. Rowe Calk Company. No. 88,207; Sept. 3; Gaz. vol. 182; p. 244.
Tar-distillates. Barrett Manufacturing Company. Nos. 88,049–50; Aug. 27; Gaz. vol. 181; p. 1067.
Tar, pitch, asphalt, &c. Barrett Manufacturing Company. No. 85,546; Feb. 27; Gaz. vol. 175; p. 1093.
Tea. W. S. Quinby Company. No. 85,681; Mar. 5; Gaz. vol. 176; p. 270.
Tea. H. Weddle. No. 85,782; Mar. 12; Gaz. vol. 176; p. 522.
Tea. G. E. Barbour Company. No. 85,898; Mar. 26; Gaz. vol. 176; p. 1066.
Tea. H. Hamstra & Co. No. 86,297; Apr. 30; Gaz. vol. 177; p. 1292.
Tea. Société par actions pour le commerce de thé К и С Popoff Frères Moscou. No. 86,471; May 7; Gaz. vol. 178; p. 316.
Tea. American Coffee Company of New Orleans. No 87,837; Aug. 13; Gaz. vol. 181; p. 535.
Tea. Griggs, Cooper & Company. No. 88,407; Sept. 17; Gaz. vol. 182; p. 717.
Tea. A. Davidson. No. 89,012; Nov. 5; Gaz. vol. 184; p. 281.
Tea and imitation tea. O. S. Fitz Gerald. No. 88,864; Oct. 29; Gaz. vol. 183; p. 1302.
Tea and coffee. Royal Tea Company. No. 86,161; Apr. 16; Gaz. vol. 177; p. 766.
Tea, coffee, and cocoa. A. Davidson. No. 88,401; Sept. 17; Gaz. vol. 182; p. 717.
Tea for coughs and colds and tablets for stomach troubles. L. C. Goldstein. No. 84,737; Jan. 2; Gaz. vol. 174; p. 283.
Tea-gowns, kimonos, dressing-sacks, &c. B. Schiff. No. 89,423; Dec. 10; Gaz. vol. 185; p. 522.
Tea, South American. Berndt & Co. No. 88,832; Oct. 29; Gaz. vol. 183; p. 1301.
Tea, spices, and flavoring extracts. The Dern Tea & Coffee Company. No. 87,862; Aug. 13; Gaz. vol. 181; p. 535.
Teas. Soulis & Sulis. No. 84,883; Jan. 9; Gaz. vol. 174; p. 581.
Teeth, Artificial. Dentists' Supply Company. No. 89,232; Dec. 3; Gaz. vol. 185; p. 243.
Teeth, Cement for filling. Richter & Hoffmann The Harvard Dental Manufacturing Company Gesellschaft mit beschränkter Haftung. No. 86,333; Apr. 30; Gaz. vol. 177; p. 1293.
Telephone pay-stations. The Gray Telephone Pay Station Company. No. 89,651; Dec. 31; Gaz. vol. 185; p. 1374.
Telephonic apparatus. National Dictograph Co. No. 85,473; Feb. 20; Gaz. vol. 175; p. 839.
Tennis-rackets. A. G. Spalding & Bros. No. 85,509; Feb. 20; Gaz. vol. 175; p. 840.
Tennis-rackets. Harry C. Lee & Co. No. 85,754; Mar. 12; Gaz. vol. 176; p. 522.
Terra-cotta and clay blocks, bricks, and tiles. National Fire Proofing Company. No. 86,436; May 7; Gaz. vol. 178; p. 315.
Textiles, Composition to finish or dress. Dr. Fritz Müller, Basler chemisch-technisches Laboratorium. No. 86,232; Apr. 23; Gaz. vol. 177; p. 1040.
Therapeutic appliance, Electrical. The Electric Respirone Company. No. 85,335; Feb. 13; Gaz. vol. 175; p. 537.
Thimbles. Untermeyer-Robbins & Company. No. 86,966; June 11; Gaz. vol. 179; p. 570.
Thimbles made of plated or precious metal. Waite, Thresher Company. No. 88,436; Sept. 17; Gaz. vol. 182; p. 718.
Thomasphosphat. Thomasphosphatfabriken Gesellschaft mit beschränkter Haftung. No. 88,387; Sept. 10; Gaz. vol. 182; p. 507.
Thread. J. E. Barbour. Nos. 84,807–8; Jan. 9; Gaz. vol. 174; p. 579.
Thread. Dieckerhoff, Raffloer & Company. No. 84,823; Jan. 9; Gaz. vol. 174; p. 579.
Thread. Dieckerhoff, Raffloer & Co. No. 85,564; Feb. 27; Gaz. vol. 175; p. 1093.
Thread and yarn, Cotton. The Spool Cotton Company. Nos. 84,758–60; Jan. 2; Gaz. vol. 174; p. 284.
Thread, Compound for the preservation of. H. A. Bates. No. 86,202; Apr. 23; Gaz. vol. 177; p. 1039.
Thread, Cotton and mercerized. I. J. Silverstein. No. 86,169; Apr. 16; Gaz. vol. 177; p. 766.
Thread in balls, Cotton. R. F. & J. Alexander & Co. No. 85,051; Jan. 30; Gaz. vol. 174; p. 1211.
Thread, Linen. Ph. Vrau & Cie. No. 89,075; Nov. 5; Gaz. vol. 184; p. 283.
Thread, machine-twist, &c., Silk. The Nonotuck Silk Company. No. 84,871; Jan. 9; Gaz. vol. 174; p. 581.
Thread of all kinds. C. Fisher. No. 85,426; Feb. 20; Gaz. vol. 175; p. 837.
Thread, Paper. American Textilose Company. Nos. 89,602–3; Dec. 31; Gaz. vol. 185; p. 1373.
Threads, Certain kinds of. A. O. Meyer. No. 85,874; Mar. 26; Gaz. vol. 176; p. 1066.
Tiles. American Encaustic Tiling Co. No. 86,681; May 28; Gaz. vol. 178; p. 1147.
Tiles. American Encaustic Tiling Co. No. 87,307; July 9; Gaz. vol. 180; p. 597.
Tiles, Terra-cotta. O. W. Ketcham. No. 84,836; Jan. 9; Gaz. vol. 174; p. 580.
Tiling, Composition floor-. A. W. Nilsson. No. 89,686; Dec. 31; Gaz. vol. 185; p. 1375.
Timber. Compagnie d'Exploitation des Bois de la Tortue (Société Anonyme). No. 85,560; Feb. 27; Gaz. vol. 175; p. 1093.
Timber-pulling devices, Ratchet-and-lever. Sylvester Company. No. 89,715; Dec. 31; Gaz. vol. 185; p. 1376.
Time-recorders. Gisholt Machine Company. No. 88,274; Sept. 10; Gaz. vol. 182; p. 504.
Tire-casings for automobiles, Inner-shoe. Jackson-Eno Rubber Company. No. 86,806; June 4; Gaz. vol. 179; p. 282.
Tire-filling compound. The Standard Chemical Company. No. 89,387; Dec. 10; Gaz. vol. 185; p. 521.
Tire-filling rubber compound. The No-Air Tire Compound Co. No. 88,516; Sept. 24; Gaz. vol. 182; p. 967.
Tire removers, Automobile wheel-. J. W. Grumiaux. No. 87,992; Aug. 20; Gaz. vol. 181; p. 816.
Tires and tubes, Rubber vehicle. Zimmerman & Zimmerman. No. 87,959; Aug. 13; Gaz. vol. 181; p. 538.
Tires, covers, and treads, Pneumatic. A. Aschéri. No. 85,937; Apr. 2; Gaz. vol. 177; p. 235.
Tires, Elastic. C. F. Wren. No. 86,196; Apr. 16; Gaz. vol. 177; p. 767.

Alphabetical list of trade-marks—Continued.

Tires, Elastic vehicle-. The Goodyear Tire and Rubber Company. No. 85,434; Feb. 20; Gaz. vol. 175; p. 838.
Tires, Elastic vehicle-. The Goodyear Tire and Rubber Company. No. 86,137; Apr. 16; Gaz. vol. 177; p. 765.
Tires for automobiles, Pneumatic. Michelin Tire Company. No. 85,761; Mar. 12; Gaz. vol. 176; p. 522.
Tires for automobiles, Pneumatic. Michelin Tire Company. No. 86,430; May 7; Gaz. vol. 178; p. 315.
Tires for vehicles, Pneumatic. The Seamless Rubber Company. No. 85,620; Feb. 27; Gaz. vol. 175; p. 1095.
Tires, Pneumatic. Empire Tire Company. No. 87,866; Aug. 13; Gaz. vol. 181; p. 535.
Tires, Rubber. M. Rosenthal. No. 87,106; June 25; Gaz. vol. 179; p. 1103.
Tires, Rubber. Jackson Eno Rubber Company. No. 89,117; Nov. 12; Gaz. vol. 184; p. 546.
Tires, Rubber. Continental Rubber Works. No. 89,228; Dec. 3; Gaz. vol. 185; p. 243.
Tires, Rubber and pneumatic. C. A. Daniel. No. 87,047; June 25; Gaz. vol. 179; p. 1101.
Tires, Rubber and pneumatic. C. A. Daniel. No. 89,344; Dec. 10; Gaz. vol. 185; p. 519.
Tires, Rubber automobile-. McGraw Tire & Rubber Company. No. 85,979; Apr. 2; Gaz. vol. 177; p. 236.
Tires, Rubber automobile-. B. F. Goodrich Company. No. 87,330; July 9; Gaz. vol. 180; p. 597.
Tires, Rubber or cushion. Hood Rubber Co. No. 89,261; Dec. 3; Gaz. vol. 185; p. 244.
Tires, Rubber vehicle-. Pennsylvania Rubber Company. No. 85,483; Feb. 20; Gaz. vol. 175; p. 839.
Tires, Vehicle-. Polack Tyre Company. No. 87,797; Aug. 6; Gaz. vol. 181; p. 262.
Tobacco. Kentucky Farmers Tobacco Co. No. 89,667; Dec. 31; Gaz. vol. 185; p. 1375.
Tobacco, Chewing-. Ogburn, Hill & Co. No. 86,544; May 14; Gaz. vol. 178; p. 588.
Tobacco, Chewing and smoking. Vogt-Applegate Co. No. 86,187; Apr. 16; Gaz. vol. 177; p. 767.
Tobacco, cigars, and cigarettes. Joseph G. Dill, Inc. No. 88,557; Oct. 1; Gaz. vol. 183; p. 213.
Tobacco, cigars, cigarettes, and snuff. R. J. Reynolds Tobacco Company. No. 86,452; May 7; Gaz. vol. 178; p. 316.
Tobacco, cigars, cigarettes, and snuff. E. J. Lusby. No. 88,504; Sept. 24; Gaz. vol. 182; p. 966.
Tobacco, Leaf-. Luckett Wake Tobacco Co. No. 85,459; Feb. 20; Gaz. vol. 175; p. 838.
Tobacco, Leaf-. Dunkerson & Co. No. 87,735; Aug. 6; Gaz. vol. 181; p. 260.
Tobacco-pouches. The Star Rubber Co. No. 86,958; June 11; Gaz. vol. 179; p. 570.
Tobacco, Smoking-. The Governor and Company of Adventurers of England Trading into Hudson's Bay. No. 85,962; Apr. 2; Gaz. vol. 177; p. 235.
Tobacco, Smoking-. Progress Tobacco Works. No. 87,480; July 16; Gaz. vol. 180; p. 875.
Tobacco, Smoking-. The Wilentz Company. No. 87,831; Aug. 6; Gaz. vol. 181; p. 263.
Tobacco, Smoking-. Curry-Hewitt Tobacco Co. No. 89,541; Dec. 24; Gaz. vol. 185; p. 1049.
Tobacco, Smoking-. United States Tobacco Co. No. 89,720; Dec. 31; Gaz. vol. 185; p. 1376.
Tobaccos, cigarettes, and cigars. Sossidi frères de Constantinople. No. 88,213; Sept. 3; Gaz. vol. 182; p. 245.
Toilet articles, Certain. L. T. Piver & Cie. No. 85,612; Feb. 27; Gaz. vol. 175; p. 1095.
Toilet articles, Container for certain named. P. C. McBride. No. 89,193; Nov. 19; Gaz. vol. 184; p. 799.
Toilet articles made principally of celluloid, Certain named. M. W. Carr & Co. No. 89,175; Nov. 19; Gaz. vol. 184; p. 799.
Toilet-cases. W. L. Deming. No. 86,389; May 7; Gaz. vol. 178; p. 314.
Toilet compounds. H. W. Taylor & Co. No. 87,821; Aug. 6; Gaz. vol. 181; p. 262.
Toilet cosmetics, Certain. H. Gabilla. Nos. 87,743–6; Aug. 6; Gaz. vol. 181; p. 260.
Toilet disinfectants and medicinal preparations, Certain. M. Szabó. No. 87,683; July 30; Gaz. vol. 180; p. 1390.
Toilet goods, Certain named. Kosaburo Nakayama. No. 88,919; Oct. 29; Gaz. vol. 183; p. 1303.
Toilet preparation, powder, and cream. H. Swift. No. 86,176; Apr. 16; Gaz. vol. 177; p. 767.
Toilet preparations. The Owl Drug Company. No. 86,826; June 4; Gaz. vol. 179; p. 282.
Toilet preparations and food-coloring compounds, Certain. National Tube Flavor Co. No. 84,789; Jan. 2; Gaz. vol. 174; p. 285.
Toilet preparations, Certain. H. A. Skinner. No. 85,015; Jan. 16; Gaz. vol. 174; p. 825.
Toilet preparations, Certain. The Andrew Jergens Co. No. 85,133; Jan. 30; Gaz. vol. 174; p. 1213.
Toilet preparations, Certain. P. A. Sours. No. 85,192; Jan. 30; Gaz. vol. 174; p. 1215.
Toilet preparations, Certain. Aubry Sisters. Nos. 85,315–16; Feb. 13; Gaz. vol. 175; p. 537.
Toilet preparations, Certain. Heather Company. No. 86,405; May 7; Gaz. vol. 178; p. 314.
Toilet preparations, Certain. Owl Drug Company. No 87,560; July 23; Gaz. vol. 180; p. 1134.
Toilet preparations, Certain. S. Albert. No. 87,699; Aug. 6; Gaz. vol. 181; p. 259.
Toilet preparations, Certain named. Amerikai Porczellan-Pouder Reszveny-Tarsasag. No. 87,590; July 30; Gaz. vol. 180; p. 1387.
Toilet preparations, Certain named. G. A. Madison. No. 87,900; Aug. 13; Gaz. vol. 181; p. 536.
Toilet preparations, Certain named. Richard Hudnut. No. 87,998; Aug. 20; Gaz. vol. 181; p. 816.
Toilet preparations, Certain named. H. Gabilla. No. 88,483; Sept. 24; Gaz. vol. 182; p. 966.
Toilet preparations, Certain named. Richard Hudnut. Nos. 88,879–80; Oct. 29; Gaz. vol. 183; p. 1302.
Toilet preparations, Certain named. Richard Hudnut. No. 88,883; Oct. 29; Gaz. vol. 183; p. 1302.
Toilet preparations, Certain named. Richard Hudnut. No. 89,367; Dec. 10; Gaz. vol. 185; p. 520.
Toilet preparations, Certain named. J. & E. Atkinson. No. 89,607; Dec. 31; Gaz. vol. 185; p. 1373.
Toilet preparations to prevent chafing and chapping. G. Edwards. No. 85,094; Jan. 30; Gaz. vol. 174; p. 1212.
Toilet wash. K. Smith. No. 87,266; July 2; Gaz. vol. 180; p. 318.
Toilet water, face-powder, and perfumes. The Andrew Jergens Co. No. 84,970; Jan. 16; Gaz. vol. 174; p. 824.
Tomato paste. J. Cusimano. No. 84,818; Jan. 9; Gaz. vol. 174; p. 579.
Tonic. F. A. V. Klopfer. No. 84,780; Jan. 2; Gaz. vol. 174; p. 285.
Tonic. Matienzo-Sainz Company. No. 84,984; Jan. 16; Gaz. vol. 174; p. 824.
Tonic. Farbwerke vorm. Meister Lucius & Brüning. No. 89,101; Nov. 12; Gaz. vol. 184; p. 545.
Tonic. G. Sallusto & Co. No. 89,704; Dec. 31; Gaz. vol. 185; p. 1376.
Tonic and antipyretic in malarial affections. T. Lamb. No. 86,413; May 7; Gaz. vol. 178; p. 314.
Tonic and blood-purifier, Nerve-. A. W. Walberg. No. 87,295; July 2; Gaz. vol. 180; p. 319.
Tonic and blood remedy. Dr. Peter Fahrney & Sons Co. No. 85,853; Mar. 26; Gaz. vol. 176; p. 1065.
Tonic, Antiseptic. Tyrrell's Hygienic Institute. No. 89,718; Dec. 31; Gaz. vol. 185; p. 1376.
Tonic beverage. I. Miller. No. 86,315; Apr. 30; Gaz. vol. 177; p. 1292.
Tonic beverage and soda-water. T. Armstrong. No. 88,153; Sept. 3; Gaz. vol. 182; p. 243.
Tonic bitters. Van Vleet-Mansfield Drug Co. No. 85,392; Feb. 13; Gaz. vol. 175; p. 539.
Tonic, Cat-. The Purr Puss Co. No. 84,795; Jan. 2; Gaz. vol. 174; p. 285.
Tonic, Chill and fever. E. F. Hudgins. No. 84,965; Jan. 16; Gaz. vol. 174; p. 824.
Tonic for the stomach. C. I. Hood Co. No. 88,294; Sept. 10; Gaz. vol. 182; p. 505.
Tonic, General. The Wilcox Co. No. 88,986; Oct. 29; Gaz. vol. 183; p. 1305.
Tonic, Laxative. Fernon Drug Co. No. 87,328; July 9; Gaz. vol. 180; p. 597.
Tonic laxative compound. Denton Brothers Drug Co. No. 87,434; July 16; Gaz. vol. 180; p. 874.
Tonic, Liver-. Griffith-White Chemical Co. No. 84,906; Jan. 9; Gaz. vol. 174; p. 582.
Tonic, Nerve and blood. J. B. Daniel. No. 85,847; Mar. 26; Gaz. vol. 176; p. 1065.
Tonic, Nerve and tissue. The Vanadium Chemical Co. No. 86,253; Apr. 23; Gaz. vol. 177; p. 1040.
Tonic, Stomach and nerve. H. I. Hammer. No. 85,346; Feb. 13; Gaz. vol. 175; p. 538.
Tools and liquid-soap dispensers, Certain named. C. Morrill. No. 88,015; Aug. 20; Gaz. vol. 181; p. 816.
Tools and machines, Certain named. The L. and I. J. White Company. No. 88,393; Sept. 10; Gaz. vol. 182; p. 507.
Tools and parts of machinery, Certain named. The Lunkenheimer Company. No. 88,683; Oct. 15; Gaz. vol. 183; p. 778.
Tools and parts of machinery, Certain named. M. Klein & Sons. No. 89,564; Dec. 24; Gaz. vol. 185; p. 1050.
Tools, Certain. Heller Brothers Co. No. 85,708; Mar. 5; Gaz. vol. 176; p. 271.
Tools, Certain. H. G. Lipscomb & Co. No. 85,755; Mar. 12; Gaz. vol. 176; p. 522.
Tools, Certain named. The Daisy Mf'g. Co. No. 87,983; Aug. 20; Gaz. vol. 181; p. 815.
Tools, Certain named. J. H. Williams & Co. No. 88,987; Oct. 29; Gaz. vol. 183; p. 1305.
Tools, Certain named. M. Klein & Sons. No. 89,563; Dec. 24; Gaz. vol. 185; p. 1050.
Tooth-paste. National Pharmacy Co. No. 87,909; Aug. 13; Gaz. vol. 181; p. 537.
Tooth-paste. John Gosnell & Co. No. 89,108; Nov. 12; Gaz. vol. 184; p. 546.
Tooth-paste. J. D. Riedel Aktiengesellschaft. No. 89,596; Dec. 31; Gaz. vol. 185; p. 1373.
Tooth-paste. A. E. Peck Mfg. Co. No. 89,695; Dec. 31; Gaz. vol. 185; p. 1376.
Tooth-paste. W. W. Zimmer. No. 89,730; Dec. 31; Gaz. vol. 185; p. 1377.
Tooth paste and powder. G. R. Elliott. No. 87,438; July 16; Gaz. vol. 180; p. 874.

Alphabetical list of trade-marks—Continued.

Toothpicks. International Mfg. Co. No. 86,302; Apr. 30; Gaz. vol. 177; p. 1292.
Toothpicks. Forster Manufacturing Company. Nos. 87,196–7; July 2; Gaz. vol. 180; p. 316.
Torches and paint-breamers. Turner Brass Works. No. 85,777; Mar. 12; Gaz. vol. 176; p. 522.
Torpedoes, Hand-. Burmont Specialty Company. No. 87,421; July 16; Gaz. vol. 180; p. 874.
Toweling. Blodgett, Ordway & Webber. No. 84,721; Jan. 2; Gaz. vol. 174; p. 283.
Toweling. Blodgett, Ordway & Webber. No. 85,033; Jan. 23; Gaz. vol. 174; p. 1023.
Toy balloons, toys, and dolls, Rubber. Ste. Ame. pour le Commerce & l'Industrie du Caoutchouc. No. 87,377; July 9; Gaz. vol. 180; p. 599.
Toy golf games. The Peg Golf Company. No. 88,518; Sept. 24; Gaz. vol. 182; p. 967.
Toy pool-tables. I. Fuld. No. 86,526; May 14; Gaz. vol. 178; p. 587.
Toy vehicles. Auto Specialty Manufacturing Co. No. 86,870; June 11; Gaz. vol. 179; p. 567.
Toys. Nonbreakable Toy Co. No. 84,792; Jan. 2; Gaz. vol. 174; p. 285.
Toys. Eisenmann & Co. Nos. 87,179–81; July 2; Gaz. vol. 180; p. 316.
Toys. B. Wilmsen. No. 87,298; July 2; Gaz. vol. 180; p. 319.
Toys. Samstag & Hilder Bros. No. 88,208; Sept. 3; Gaz. vol. 182; p. 244.
Toys. E. P. Lehmann. No. 88,682; Oct. 15; Gaz. vol. 183; p. 778.
Toys and games. J. W. Spear & Söhne, Kommanditgesellschaft, Papierwaren- u. Spielefabrik. No. 87,272; July 2; Gaz. vol. 180; p. 319.
Toys and trick apparatus. A. C. Gilbert. No. 88,078; Aug. 27; Gaz. vol. 181; p. 1068.
Toys, Certain. E. P. Lehmann. No. 85,972; Apr. 2; Gaz. vol. 177; p. 236.
Toys, Certain. M. E. Converse & Son. No. 87,604; July 30; Gaz. vol. 180; p. 1387.
Traction-machines and parts thereof. McKinney Traction Cultivator Co. No. 87,087; June 25; Gaz. vol. 179; p. 1102.
Transmission apparatus and explosion-motors for motor-vehicles. Minerva Motors. No. 89,131; Nov. 12; Gaz. vol. 184; p. 546.
Traps. J. Opperud. No. 88,586; Oct. 1; Gaz. vol. 183; p. 214.
Traps, Steel. Oneida Community. No. 86,545; May 14; Gaz. vol. 178; p. 588.
Trays and bath-tubs, Wash-. Pioneer Porcelain Wash Tray Co. No. 88,587; Oct. 1; Gaz. vol. 183; p. 214.
Trousers. L. Levy. No. 88,761; Oct. 22; Gaz. vol. 183; p. 1028.
Trousers and ladies' outside skirts. Roll-O-Belt Company. No. 87,370; July 9; Gaz. vol. 180; p. 599.
Trousers, coats, overalls, and outer shirts. Peerless Overall Co. No. 85,990; Apr. 2; Gaz. vol. 177; p. 236.
Trucks, Motor-. General Motors Truck Co. No. 88,270; Sept. 10; Gaz. vol. 182; p. 504.
Trucks, Steel warehouse-. Illinois Iron & Bolt Co. No. 87,342; July 9; Gaz. vol. 180; p. 598.
Trucks, Warehouse-. Lansing-Company. No. 87,349; July 9; Gaz. vol. 180; p. 598.
Trunks, Automobile-. I. S. Kallis. No. 85,357; Feb. 13; Gaz. vol. 175; p. 538.
Trunks, suit-cases, and portfolios. Progress Auto Tire Trunk Mfg. Co. No. 85,000; Jan. 16; Gaz. vol. 174; p. 825.
Tube and flue expanders and cutters. G. Wiedeke and Company. No. 86,852; June 4; Gaz. vol. 179; p. 283.
Tube splicers, Inner-. The M. & M. Manufacturing Company. No. 88,579; Oct. 1; Gaz. vol. 183; p. 214.
Turnbuckles. American Iron and Steel Manufacturing Company. Nos. 86,358–63; May 7; Gaz. vol. 178; p. 313.
Turnbuckles. American Iron and Steel Manufacturing Company. Nos. 86,770–1; June 4; Gaz. vol. 179; p. 281.
Turpentine and linseed-oil substitutes. Petroleum Products Co. No. 85,991; Apr. 2; Gaz. vol. 177; p. 236.
Turpentine substitute. F. J. Underwood. No. 85,926; Mar. 26; Gaz. vol. 176; p. 1067.
Tweed. Harris Tweed Association. No. 89,399; Dec. 10; Gaz. vol. 185; p. 521.
Twine. Marshall & Company. No. 86,422; May 7; Gaz. vol. 178; p. 315.
Twine. American Manufacturing Company. No. 87,142; July 2; Gaz. vol. 180; p. 315.
Twine and cord. The A. H. Hart Co. No. 86,221; Apr 23; Gaz. vol. 177; p. 1039.
Twist-drills. The Whitman & Barnes Manufacturing Co. No. 86,259; Apr. 23; Gaz. vol. 177; p. 1040.
Type, lines of type, and matrices, Cast-metal. Amalgatype Machine Company. No. 88,656; Oct. 15; Gaz. vol. 183; p. 777.
Type-writer cabinets. F. Grundy and R. J. Belford. No. 87,335; July 9; Gaz. vol. 180; p. 598.
Type-writer carbon-paper and ribbon. Neely & Peacock. No. 88,583; Oct. 1; Gaz. vol. 183; p. 214.
Type-writer ribbons and carbon-paper. Tower Manufacturing & Novelty Co. No. 87,381; July 9; Gaz. vol. 180; p. 599.
Type-writer ribbons and carbon-paper. Mittag & Volger, No. 87,465; July 16; Gaz. vol. 180; p. 875.
Type-writers. C. Twining. No. 85,925; Mar. 26; Gaz. vol. 176; p. 1067.
Type-writers and parts. The Columbia Typewriter Manufacturing Company. No. 85,227; Feb. 6; Gaz. vol. 175; p. 259.
Type-writers and parts thereof. The Columbia Typewriter Manufacturing Company. No. 86,574; May 21; Gaz. vol. 178; p. 879.
Type-writers and type-writer parts. E. Colwell, Jr. No. 87,729; Aug. 6; Gaz. vol. 181; p. 260.
Type-writing-machine attachment, Certain automatic. American Feedograph Company. No. 86,021; Apr. 9; Gaz. vol. 177; p. 519.
Type-writing machines. Remington Typewriter Company. No. 88,701; Oct. 15; Gaz. vol. 183; p. 778.
Type-writing machines and parts thereof. Standard Typewriter Company. No. 86,343; Apr. 30; Gaz. vol. 177; p. 1293.
Type-writing machines, combined writing-adding machines, and platens. Elliott-Fisher Company. No. 88,476; Sept. 24; Gaz. vol. 182; p. 966.
Typographic machines and parts thereof. Amalgatype Machine Company. No. 88,042; Aug. 27; Gaz. vol. 181; p. 1067.
Umbrellas. B. O. Wright & Cole. No. 85,024; Jan. 16, Gaz. vol. 174; p. 826.
Umbrellas and parasols. K. A. Schott & Roth. No. 86,687; Mar. 5; Gaz. vol. 176; p. 270.
Umbrellas and parasols. E. C. Kuhn. No. 87,774; Aug. 6; Gaz. vol. 181; p. 261.
Undergarment, Certain combination. E. O. Farnsworth. No. 85,338; Feb. 13; Gaz. vol. 175; p. 537.
Undershirts. Earnshaw Knitting Company. No. 85,801; Mar. 19; Gaz. vol. 176; p. 745.
Undershirts and drawers. T. Silberman. No. 86,168; Apr. 16; Gaz. vol. 177; p. 766.
Undershirts, drawers, union suits, &c., Fabric. Delmarvia Manufacturing Company. No. 88,741; Oct. 22; Gaz. vol. 183; p. 1027.
Undertakers' make-up outfits. H. Morgan. No. 87,788; Aug. 6; Gaz. vol. 181; p. 261.
Underwear, Men's. A. Kuehnert & Co. No. 86,307; Apr. 30; Gaz. vol. 177; p. 1292.
Vaccine. Parke, Davis & Co. No. 88,699; Oct. 15; Gaz. vol. 183; p. 778.
Valve-cups, Leather. J. E. Scott Cup Co. No. 89,510; Dec. 17; Gaz. vol. 185; p. 825.
Valves, Brass and iron. Schade Valve Manufacturing Co. No. 85,291; Feb. 6; Gaz. vol. 175; p. 261.
Valves, Flush-. A. N. Pasman. No. 87,918; Aug. 13; Gaz. vol. 181; p. 537.
Valves, Metallic. The Bishop-Babcock-Becker Company. No. 89,617; Dec. 31; Gaz. vol. 185; p. 1373.
Valves, Steam-. The Collin Valve Company. No. 85,732; Mar. 12; Gaz. vol. 176; p. 521.
Varnish. New Jersey Wood Finishing Co. No. 86,079; Apr. 9; Gaz. vol. 177; p. 520.
Varnish and paint remover. The H. B. Chalmers Co. No. 86,573; May 21; Gaz. vol. 178; p. 879.
Varnishes. Valentine & Company. No. 85,626; Feb. 27; Gaz. vol. 175; p. 1095.
Varnishes. Gregg Varnish Company. No. 87,755; Aug. 6; Gaz. vol. 181; p. 260.
Varnishes and paints. Copal Varnish Company. No. 87,605; July 30; Gaz. vol. 180; p. 1387.
Varnishes and stains. Hatfield-Bernhard Co. No. 86,590; May 21; Gaz. vol. 178; p. 879.
Varnishes and stains. F. H. Messenger Co. No. 88,323; Sept. 10; Gaz. vol. 182; p. 505.
Varnishes and varnish-gums. Empire Shellac Company. Nos. 85,902–3; Mar. 26; Gaz. vol. 176; p. 1066.
Vault-lights and prismatic glass. American Luxfer Prism Company of Illinois. No. 84,798; Jan. 9; Gaz. vol. 174; p. 579.
Vegetables and fruits, Fresh. The Denver Vegetable Growers Association. No. 89,099; Nov. 12; Gaz. vol. 184; p. 545.
Vehicle steering-gear. Wolverine Marine Company. No. 87,835; Aug. 6; Gaz. vol. 181; p. 263.
Vehicles, Certain. A. Saurer. No. 86,242; Apr. 23; Gaz. vol. 177; p. 1040.
Vehicles, Certain named. The Studebaker Corporation. No. 88,711; Oct. 15; Gaz. vol. 183; p. 778.
Vehicles, Electrically-propelled road-. Kentucky Wagon Mfg. Co. No. 89,188; Nov. 19; Gaz. vol. 184; p. 799.
Vehicles, Motor-. Packard Motor Car Company. No. 89,198; Nov. 19; Gaz. vol. 184; p. 799.
Vehicles, Motor-. Packard Motor Car Company. No. 89,211; Nov. 19; Gaz. vol. 184; p. 800.
Vehicles, running-gears, and chassis, Motor-. Colonial Electric Car Co. No. 88,468; Sept. 24; Gaz. vol. 182; p. 965.
Veil-holders. S. E. Ballard. No. 85,223; Feb. 6; Gaz. vol. 175; p. 259.
Velling. S. Hollander & Son. No. 86,059; Apr. 9; Gaz. vol. 177; p. 520.

Alphabetical list of trade-marks—Continued.

Veilings. E. & Z. Van Raalte. No. 86,488; May 7; Gaz. vol. 178; p. 317.
Veilings, nettings, malines, and veils. Steiner, Rosenstein & Traub. No. 86,108; Apr. 9; Gaz. vol. 177; p. 521.
Vending-machines. D. B. Samuels. No. 85,290; Feb. 6; Gaz. vol. 175; p. 261.
Vending-machines. Liberty Vending Co. No. 85,664; Mar. 5; Gaz. vol. 176; p. 269.
Vending machines, Stamp and ticket. American Stamp & Ticket Vending Machine Co. No. 88,443; Sept. 24; Gaz. vol. 182; p. 965.
Ventilating apparatus. Autoforce Ventilating System. No. 86,871; June 11; Gaz. vol. 179; p. 567.
Ventilators. Ideal Ventilator Co. No. 87,765; Aug. 6; Gaz. vol. 181; p. 261.
Vermicelli, noodles, alphabets, &c. Uncle Sam's Macaroni Co. No. 87,292; July 2; Gaz. vol. 180; p. 319.
Vermin-exterminating preparations. National Exterminating Co. No. 84,911; Jan. 9; Gaz. vol. 174; p. 582.
Vessels for conveyance and storing of liquids. Thermos Aktiengesellschaft. No. 87,285; July 2; Gaz. vol. 180; p. 319.
Veterinary balling and powder gun. T. Bland. No. 84,720; Jan. 2; Gaz. vol. 174; p. 283.
Vibrators, Electric. The Royal Specialty Company. No. 85,769; Mar. 12; Gaz. vol. 176; p. 522.
Vibrators, Massage-. Hamilton-Beach Mfg. Co. No. 89,654; Dec. 31; Gaz. vol. 185; p. 1374.
Vinegar, Apple. Harrison & Co. No. 85,347; Feb. 13; Gaz. vol. 175; p. 538.
Violins. Simson & Frey. No. 88,966; Oct. 29; Gaz. vol. 183; p. 1305.
Vises. Prentiss Vise Company. No. 85,993; Apr. 2; Gaz. vol. 177; p. 236.
Vodka. Stillman Bottling Company. Nos. 85,514–15; Feb. 20; Gaz. vol. 175; p. 840.
Vulcanizing solution. M. & M. Manufacturing Company. No. 87,461; July 16; Gaz. vol. 180; p. 875.
Wafer-capsule-closing apparatus. J. Schmidt. No. 86,736; May 28; Gaz. vol. 178; p. 1148.
Wafers, Edible. Idun Wafer Company. No. 89,660; Dec. 31; Gaz. vol. 185; p. 1375.
Wagon-dump stops and brakes. The Challenge Manufacturing Co. No. 88,060; Aug. 27; Gaz. vol. 181; p. 1067.
Waists, Dress-. I. Lefkowitz. No. 85,597; Feb. 27; Gaz. vol. 175; p. 1094.
Waists, Dress and shirt. Bloom & Millman. No. 86,877; June 11; Gaz. vol. 179; p. 567.
Wall and ceiling coverings. Revêtements Josz Société Anonyme. No. 84,752; Jan. 2; Gaz. vol. 174; p. 284.
Walls and wall-paper, Certain preparation for cleaning and restoring. Walcaline Company. No. 88,603; Oct. 1; Gaz. vol. 183; p. 214.
Washboilers. M. Kamenstein. No. 87,078; June 25; Gaz. vol. 179; p. 1102.
Washcloths, towels, and bath-mats. K. Shaffer. No. 84,880; Jan. 9; Gaz. vol. 174; p. 581.
Washing, cleaning, and scouring preparations. Pacific Specialty Company. No. 86,442; May 7; Gaz. vol. 178; p. 315.
Washing compound. R. Austin. No. 85,057; Jan. 30; Gaz. vol. 174; p. 1211.
Washing compound. E. G. Frank. No. 85,737; Mar. 12; Gaz. vol. 176; p. 521.
Washing compound. Chase Dirt Company. No. 87,425; July 16; Gaz. vol. 180; p. 874.
Washing compound. E. G. Frank. No. 88,075; Aug. 27; Gaz. vol. 181; p. 1068.
Washing compounds. Hoffman & Hoffman. No. 86,707; May 28; Gaz. vol. 178; p. 1147.
Washing machine, Laundry-. M. Drolet. No. 88,560; Oct. 1; Gaz. vol. 183; p. 213.
Washing-machines. H. Budd. No. 85,942; Apr. 2; Gaz. vol. 177; p. 235.
Washing-machines. National Sewing Machine Company. No. 85,986; Apr. 2; Gaz. vol. 177; p. 236.
Washing machines, Laundry-. Richmond Cedar Works. No. 87,257; July 2; Gaz. vol. 180; p. 318.
Washing machines, Laundry-. H. W. Campbell. No. 87,850; Aug. 13; Gaz. vol. 181; p. 535.
Washing machines, Laundry-. Rochester Rotary Washer Company. No. 87,928; Aug. 13; Gaz. vol. 181; p. 537.
Washing-powder. Klensall Mfg. Co. No. 88,092; Aug. 27; Gaz. vol. 181; p. 1068.
Watch cases and movements. Rockford Watch Co. Nos. 87,483–4; July 16; Gaz. vol. 180; p. 875.
Watch-movements. Elgin National Watch Company. No. 88,257; Sept. 10; Gaz. vol. 182; p. 504.
Watch-movements, watches, and parts thereof. Equity Watch Company. No. 84,735; Jan. 2; Gaz. vol. 174; p. 283.
Watches. The Ansonia Clock Company. No. 85,312; Feb. 13; Gaz. vol. 175; p. 537.
Watches. A. Bien. No. 86,507; May 14; Gaz. vol. 178; p. 587.
Watches. The Ansonia Clock Company. No. 89,431; Dec. 17; Gaz. vol. 185; p. 823.
Watches and clocks. Robt. H. Ingersoll & Bro. Nos. 89,265–6; Dec. 3; Gaz. vol. 185; p. 244.
Watches and clocks and parts thereof. G. Häusler. No. 85,038; Jan. 23; Gaz. vol. 174; p. 1023.
Watches and parts of watches. Waltham Watch Company. No. 86,188; Apr. 16; Gaz. vol. 177; p. 767.
Watches and watchcases. Bach & Company. No. 86,267; Apr. 30; Gaz. vol. 177; p. 1291.
Watches, clocks, watch and clock movements and cases. Eisenstadt Manufacturing Company. No. 84,733; Jan. 2; Gaz. vol. 174; p. 283.
Watches, watch cases and movements. The Keystone Watch Case Company. No. 86,716; May 28; Gaz. vol. 178; p. 1148.
Watches, watch movements and cases, and parts thereof. The Keystone Watch Case Company. No. 86,412; May 7; Gaz. vol. 178; p. 314.
Watchcases. Illinois Watch Case Co. No. 85,864; Mar. 26; Gaz. vol. 176; p. 1065.
Watchcases. Elgin Giant Watch Case Co. No. 88,475; Sept. 24; Gaz. vol. 182; p. 966.
Water, Artificial mineral. T. E. Quere. No. 85,002; Jan. 16; Gaz. vol. 174; p. 825.
Water, Bottled drinking-. J. G. Burton. No. 86,206; Apr. 23; Gaz. vol. 177; p. 1039.
Water-closets, closet-seats, bowls, and flushing-tanks. Climax Sanitary Company. No. 86,696; May 28; Gaz. vol. 178; p. 1147.
Water-closets, Sanitary. The Trenton Potteries Company. No. 87,126; June 25; Gaz. vol. 179; p. 1104.
Water, Drinking-. Dixon Springs Hotel Company. No. 89,448; Dec. 17; Gaz. vol. 185; p. 823.
Water, flavored beverages, and syrups, Distilled and carbonated. Hygrade Water & Soda Co. No. 89,365; Dec. 10; Gaz. vol. 185; p. 520.
Water-gage tubes, Glass. Rheinische Glashütten-Aktien-Gesellschaft. No. 86,617; May 21; Gaz. vol. 178; p. 880.
Water-heaters. Continental Radiator & Foundry Co. No. 88,066; Aug. 27; Gaz. vol. 181; p. 1067.
Water-heaters. Charles Smith Company. No. 89,383; Dec. 10; Gaz. vol. 185; p. 521.
Water-heaters. Pittsburg Water Heater Company. No. 89,576; Dec. 24; Gaz. vol. 185; p. 1050.
Water, Mineral. Arger et Cie. No. 88,044; Aug. 27; Gaz. vol. 181; p. 1067.
Water, Natural medicinal. California Medicinal Springs Co. No. 89,440; Dec. 17; Gaz. vol. 185; p. 823.
Water, Natural spring-. The De Soto Mineral Spring Company. No. 85,953; Apr. 2; Gaz. vol. 177; p. 235.
Water, Natural spring drinking-. National Water Company. Nos. 85,042–3; Jan. 23; Gaz. vol. 174; p. 1023.
Water, Ozonized hygienic. Berryman and Schlegelmilch. No. 86,570; May 21; Gaz. vol. 178; p. 879.
Water-purifying and steam-boiler-cleaning compound. W. R. Du Mond. No. 86,791; June 4; Gaz. vol. 179; p. 281.
Water-purifying chemical compound. Koch Brothers. No. 88,895; Oct. 29; Gaz. vol. 183; p. 1303.
Water, Spring-. Sun-Ray Water Co. Nos. 88,130–2; Aug. 27; Gaz. vol. 181; p. 1069.
Water, Spring-. J. W. McGraw. No. 89,281; Dec. 3; Gaz. vol. 185; p. 245.
Water, Sterilized. W. Kennedy. No. 87,219; July 2; Gaz. vol. 180; p. 317.
Waters and non-intoxicating carbonated tonic beverages. W. H. Wagar. No. 88,811; Oct. 22; Gaz. vol. 183; p. 1029.
Waters and tonic beverages, Mineral, still, and spring. F. G. Klein Co. No. 88,002; Aug. 20; Gaz. vol. 181; p. 816.
Waters, Mineral and aerated. The Cambrunnen Table Water Co. No. 86,977; June 18; Gaz. vol. 179; p. 847.
Waters, Natural mineral. Compagnie Fermière de l'Établissement Thermal de Vichy. Nos. 86,208–9; Apr. 23; Gaz. vol. 177; p. 1039.
Waters, Natural mineral. Compagnie Fermière de l'Établissement Thermal de Vichy. No. 86,576; May 21; Gaz. vol. 178; p. 879.
Waters, Natural mineral. Compagnie Fermière de L'Etablissement Thermal de Vichy. No. 88,244; Sept. 10; Gaz. vol. 182; p. 503.
Waters, Natural mineral. Compagnie Fermière de L'Etablissement Thermal de Vichy. No. 88,736; Oct. 22; Gaz. vol. 183; p. 1027.
Waters, Natural mineral spring-. Sct. Lucasbader Brunnen Actien-Gesellschaft. No. 87,011; June 18; Gaz. vol. 179; p. 848.
Waterproof fabrics. Canvas Decoy Co. No. 84,934; Jan. 16; Gaz. vol. 172; p. 823.
Wax, Engraver's. R. D. Ackerman. No. 89,594; Dec. 31; Gaz. vol. 185; p. 1373.
Waxy matter molded in small definite forms. W. W. Holland. No. 87,887; Aug. 13; Gaz. vol. 181; p. 536.
Weather-strip, Wood and metal. Roebuck Weather Strip and Wire Screen Company. No. 87,563; July 23; Gaz. vol. 180; p. 1134.
Weather-strips. Chamberlin Metal Weather Strip Co. No. 86,784; June 4; Gaz. vol. 179; p. 281.
Weather-strips, Metal. Acme Metal Weather Strip Company. No. 85,398; Feb. 20; Gaz. vol. 175; p. 837.
Welding powder and plates. The Rowe Ring-Point Company. No. 89,147; Nov. 12; Gaz. vol. 184; p. 547.
Well-drilling machines. American Well & Prospecting Co. No. 85,221; Feb. 6; Gaz. vol. 175; p. 259.

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Well-drilling machines. C. F. Gulde. No. 87,993; Aug. 20; Gaz. vol. 181; p. 816.
Welsh rabbit, Preparation for making. Cheese-a-bit Company. No. 89,225; Dec. 3; Gaz. vol. 185; p. 243.
Wheat, Shredded. The Shredded Wheat Company. No. 89,071; Nov. 5; Gaz. vol. 184; p. 283.
Wheel-rims. K & C Manufacturing Company. No. 85,356; Feb. 13; Gaz. vol. 175; p. 538.
Wheels. Centrifugal Power Wheel Company. No. 88,843; Oct. 29; Gaz. vol. 183; p. 1301.
Wheelbarrows, trucks, and hand-carts. Lansing-Company. No. 87,348; July 9; Gaz. vol. 180; p. 598.
Whips. United States Whip Company. No. 85,205; Jan. 30; Gaz. vol. 174; p. 1215.
Whips. Smith Lockwood Mfg. Co. No. 88,124; Aug. 27; Gaz. vol. 181; p. 1069.
Whiskies and cordials. Gossler Bros. No. 85,809; Mar. 19; Gaz. vol. 176; p. 745.
Whiskies and gin. The Norman Company. No. 88,416; Sept. 17; Gaz. vol. 182; p. 717.
Whiskies, Blend of. A. E. Norris. No. 89,287; Dec. 3; Gaz. vol. 185; p. 245.
Whisky. Julius Levin Company. No. 85,457; Feb. 20; Gaz. vol. 175; p. 838.
Whisky. Mitchell Brothers. No. 85,464; Feb. 20; Gaz. vol. 175; p. 839.
Whisky. Park & Tilford. No. 85,481; Feb. 20; Gaz. vol. 175; p. 839.
Whisky. The Wineke-Bauernschmidt Co. of Balto. City. No. 85,787; Mar. 12; Gaz. vol. 176; p. 523.
Whisky. The Ullman Company. No. 85,837; Mar. 19; Gaz. vol. 176; p. 746.
Whisky. James Watson & Company. No. 86,355; Apr. 30; Gaz. vol. 177; p. 1293.
Whisky. J. E. Walsh. No. 86,750; May 28; Gaz. vol. 178; p. 1149.
Whisky. The Old Bushmills Distillery Co. No. 86,825; June 4; Gaz. vol. 179; p. 282.
Whisky. J. Weber, Jr. No. 86,969; June 11; Gaz. vol. 179; p. 570.
Whisky. C. Berry & Co. No. 86,976; June 18; Gaz. vol. 179; p. 847.
Whisky. B. K. Bloch. No. 87,418; July 16; Gaz. vol. 180; p. 873.
Whisky. John Harvey and Sons. No. 87,447; July 16; Gaz. vol. 180; p. 874.
Whisky. D. P. McDonald & Sons. No. 88,332; Sept. 10; Gaz. vol. 182; p. 506.
Whisky. The Old Dominion Distilling Co. Nos. 88,348–9; Sept. 10; Gaz. vol. 182; p. 506.
Whisky. W. A. Gaines & Company. No. 88,484; Sept. 24; Gaz. vol. 182; p. 966.
Whisky. J. B. Thompson. No. 89,160; Nov. 12; Gaz. vol. 184; p. 547.
Whisky. A. Cora, Inc. No. 89,229; Dec. 3; Gaz. vol. 185; p. 243.
Whisky. W. A. Gaines & Company. No. 89,644; Dec. 31; Gaz. vol. 185; p. 1374.
Whisky. S. Greenlees. No. 89,653; Dec. 31; Gaz. vol. 185; p. 1374.
Whisky and brandy. A. M. Smith. No. 88,427; Sept. 17; Gaz. vol. 182; p. 718.
Whisky blend. Golden Gate Co. No. 86,986; June 18; Gaz. vol. 179; p. 847.
Whisky, Blended. The Wilson Distilling Company. No. 88,818; Oct. 22; Gaz. vol. 183; p. 1029.
Whisky, Blended Scotch liquor. W. Stenhouse. No. 89,391; Dec. 10; Gaz. vol. 185; p. 521.
Whisky, brandy, gin, &c. S. Froehlich & Son. No. 89,353; Dec. 10; Gaz. vol. 185; p. 520.
Whisky, Corn. Meyer, Pitts & Co. No. 88.324; Sept. 10; Gaz. vol. 182; p. 506.
Whisky, keummel, brandy, &c. W. Schneider Wholesale Wine & Liquor Co. No. 89,069; Nov. 5; Gaz. vol. 184; p. 283.
Whisky, Rye. The Seligman Distillery Company. No. 86,624; May 21; Gaz. vol. 178; p. 880.
Whistle-calls. J. Hudson. No. 88,184; Sept. 3; Gaz. vol. 182; p. 244.
Whistle-calls. J. Hudson. No. 88,753; Oct. 22; Gaz. vol. 183; p. 1028.
Winding machines, Yarn and thread. J. R. Leeson. No. 87,960; Aug. 13; Gaz. vol. 181; p. 538.
Winding machines, Yarn and thread. J. R. Leeson. No. 89,274; Dec. 3; Gaz. vol. 185; p. 244.
Windmill and other towers and parts thereof. Flint and Walling Manufacturing Co. No. 88,177; Sept. 3; Gaz. vol. 182; p. 244.
Window-shades and Venetian blinds. Theo. H. Gary Co. No. 85,342; Feb. 13; Gaz. vol. 175; p. 538.
Window-ventilators. P. S. Delany. No. 89,346; Dec. 10; Gaz. vol. 185; p. 519.
Wine. P. Dempsey & Co. No. 85,329; Feb. 13; Gaz. vol. 175; p. 537.
Wine. Italian-Swiss Colony. No. 85,586; Feb. 27; Gaz. vol. 175; p. 1094.
Wine. Hammondsport Wine Company. No. 85,744; Mar. 12; Gaz. vol. 176; p. 521.
Wine. California Wine Association. No. 86,032; Apr. 9; Gaz. vol. 177; p. 519.
Wine. Goldberg, Bowen & Co. No. 87,204; July 2; Gaz. vol. 180; p. 317.
Wine. Garrett & Co. Nos. 88,622–4; Oct. 8; Gaz. vol. 183; p. 499.
Wine. Garrett & Co. No. 88,670; Oct. 15; Gaz. vol. 183; p. 777.
Wine, Effervescent. M. Raventós. No. 84,751; Jan. 2; Gaz. vol. 174; p. 284.
Wine, Port-. A. C. F. Morgan. No. 86,999; June 18; Gaz. vol. 179; p. 847.
Wine, Port-. A. C. F. Morgan. No. 87,905; Aug. 13; Gaz. vol. 181; p. 537.
Wine, Sherry-. Julius Wile, Sons & Co. No. 86,492; May 7; Gaz. vol. 178; p. 317.
Wine, Sherry-. A. D. Shaw & Co. No. 87,012; June 18; Gaz. vol. 179; p. 848.
Wine, Sherry-. Elder-Harrison Company. No. 88,070; Aug. 27; Gaz. vol. 181; p. 1067.
Wine, Sparkling. Empire State Wine Co. No. 85,851; Mar. 26; Gaz. vol. 176; p. 1065.
Wine, Tonic. Humphrey Taylor & Co. No. 85,517; Feb. 20; Gaz. vol. 175; p. 840.
Wines. H. Stumpf Erben. No. 85,834; Mar. 19; Gaz. vol. 176; p. 746.
Wines. Anheuser & Fehrs. No. 86,369; May 7; Gaz. vol. 178; p. 313.
Wines. M. L. Eppstein. No. 88,744; Oct. 22; Gaz. vol. 183; p. 1027.
Wines, Certain named. Steinhardt Bros. & Co. No. 88,129; Aug. 27; Gaz. vol. 181; p. 1069.
Wines, Port and sherry. A. M. Smith. No. 88,428; Sept. 17; Gaz. vol. 182; p. 718.
Wines, Sweet. California Wine Association. No. 85,844; Mar. 26; Gaz. vol. 176; p. 1065.
Wire, Barb-. American Steel & Wire Company of New Jersey. No. 85,639; Mar. 5; Gaz. vol. 176; p. 269.
Wire, Barb-. Keystone Steel & Wire Company. No. 85,908; Mar. 26; Gaz. vol. 176; p. 1067.
Wire, Barb-. The American Steel & Wire Company of New Jersey. No. 89,079; Nov. 12; Gaz. vol. 184; p. 545.
Wire, barb-wire, and fence stretchers. Keystone Steel & Wire Company. No. 86,598; May 21; Gaz. vol. 178; p. 880.
Wire, Barbed fence-. Scholtz & Marturet. No. 89,298; Dec. 3; Gaz. vol. 185; p. 245.
Wire-cloth. Hanover Wire Cloth Co. No. 85,438; Feb. 20; Gaz. vol. 175; p. 838.
Wire, Iron and steel. Negretti & Zambra. No. 86,234; Apr. 23; Gaz. vol. 177; p. 1040.
Wire rope. Macomber & Whyte Rope Company. No. 88,903; Oct. 29; Gaz. vol. 183; p. 1303.
Wood and metal cleaning and polishing compound. Railway Chemical Mfg. Co. No. 88,115; Aug. 27; Gaz. vol. 181; p. 1069.
Wood cleanser and polisher. The Progress Company. No. 86,828; June 4; Gaz. vol. 179; p. 282.
Wood cleanser, polisher, and finisher. Ward & Ward. No. 85,299; Feb. 6; Gaz. vol. 175; p. 261.
Wood-polish. E. Donahue. No. 86,580; May 21; Gaz. vol. 178; p. 879.
Wood, &c., Product for preserving. J. Gerlache. No. 89,105; Nov. 12; Gaz. vol. 184; p. 545.
Woolen dress goods. Haas Bros. No. 89,027; Nov. 5; Gaz. vol. 184; p. 282.
Woolen piece goods. Worumbo Manufacturing Company. No. 85,633; Feb. 27; Gaz. vol. 175; p. 1095.
Woolen piece goods. American Woolen Company. Nos. 87,028–31; June 25; Gaz. vol. 179; p. 1101.
Woolen piece goods. American Woolen Company. Nos. 87,588–9; July 30; Gaz. vol. 180; p. 1387.
Woolen piece goods. American Woolen Company. Nos. 89,324–5; Dec. 10; Gaz. vol. 185; p. 519.
Worsted cloths. Perseverance Worsted Company. No. 85,484; Feb. 20; Gaz. vol. 175; p. 839.
Worsted cloths. Perseverance Worsted Company. No. 85,679; Mar. 5; Gaz. vol. 176; p. 270.
Worsted, woolen, and part-woolen piece goods. M. T. Stevens & Sons Company. Nos. 84,763–4; Jan. 2; Gaz. vol. 174; p. 284.
Wrenches. Twin-Grip Wrench Company. Nos. 85,297–8; Feb. 6; Gaz. vol. 175; p. 261.
Wrenches. Crescent Forgings Company. No. 88,166; Sept. 3; Gaz. vol. 182; p. 243.
Wrenches. Coes Wrench Company. No. 88,616; Oct. 8; Gaz. vol. 183; p. 499.
Writing fluid. International Ink Co. No. 86,993; June 18; Gaz. vol. 179; p. 847.
Writing fluid, Acid and water proof. Trenton Ink Co. No. 87,288; July 2; Gaz. vol. 180; p. 319.
Writing-machines. The Signature Company. No. 87,110; June 25; Gaz. vol. 179; p. 1103.
Yarn. B. Ulmann & Co. No. 85,019; Jan. 16; Gaz. vol. 174; p. 825.
Yarn. J. Meyer & Company. No. 88,769; Oct. 22; Gaz. vol. 183; p. 1028.
Yarn, Artificial-silk skein-. Wm. H. Horstmann Company. No. 84,832; Jan. 9; Gaz. vol. 174; p. 580.

Alphabetical list of trade-marks—Continued.

Yarn, Cotton. Jewel Cotton Mills. No. 89,669; Dec. 31; Gaz. vol. 185; p. 1375.
Yarn, Woolen. Norddeutsche Wollkämmerei & Kammgarnspinnerei. Nos. 84,995–7; Jan. 16; Gaz. vol. 174; p. 825.
Yarn, Woolen. Norddeutsche Wollkämmerei & Kammgarnspinnerei. No. 85,163; Jan. 30; Gaz. vol. 174; p. 1214.
Yarn, Woolen. Norddeutsche Wollkämmerei & Kammgarnspinnerei. No. 85,989; Apr. 2; Gaz. vol. 177; p. 236.
Yarn, Worsted and merino. A. Adie. No. 84,711; Jan. 2; Gaz. vol. 174; p. 283.
Yarns, Cotton. Harding Tilton & Company. No. 86,837; June 4; Gaz. vol. 179; p. 283.
Yarns, Cotton. Utica Steam and Mohawk Valley Cotton Mills. Nos. 88,981–2; Oct. 29; Gaz. vol. 183; p. 1305.
Yarns, Cotton. Robert Marsland & Co. No. 89,480; Dec. 17; Gaz. vol. 185; p. 824.
Yeast. The Kessler Yeast Co. No. 87,894; Aug. 13; Gaz. vol. 181; p. 536.

ALPHABETICAL LIST OF LABELS.

"A Great Appetizer." (For Granulated Sapsago-Cheese.) H. D. Gardy. No. 16,123; Jan. 23; Gaz. vol. 174; p. 1024.
"A Message of Hope to Suffering Women." (For Medicine.) Uterotone Home Treatment Company. No. 16,182; Feb. 20; Gaz. vol. 175; p. 842.
"A Pickle." (For Cigars.) E. E. Holipeter. No. 16,701; Dec. 17; Gaz. vol. 185; p. 826.
"Absolutely Pure Apple Cider Heart's Delight Farm." (For Apple Cider.) W. H. Miner. No. 16,713; Dec. 24; Gaz. vol. 185; p. 1052.
"Adelosa." (For Cigars.) Julius Bien Company. No. 16,127; Jan. 23; Gaz. vol. 174; p. 1024.
"Aero." (For Whisky.) F. J. Musil. No. 16,714; Dec. 24; Gaz. vol. 185; p. 1052.
"Albem-Oil." (For Oil for Type-Writers.) W. G. Stevenson. No. 16,372; June 4; Gaz. vol. 179; p. 284.
"Aldena Water." (For Water.) Alden Mineral Water Company. No. 16,561; Sept. 10; Gaz. vol. 182; p. 508.
"Alghieri's Soup." (For Soup.) Alghieri Chef. No. 16,366; June 4; Gaz. vol. 179; p. 284.
"All-But-Linen." (For Suiting.) Burton Bros. & Co. No. 16,375; June 11; Gaz. vol. 179; p. 571.
"Alligator." (For Molasses.) New Orleans Coffee Co. No. 16,406; June 18; Gaz. vol. 179; p. 849.
"Aloa Brand." (For Fresh Fruit Flavors.) The Angelus Company. No. 16,336; May 14; Gaz. vol. 178; p. 589.
"Alta District Brand Fancy Seeded Raisins." (For Seeded Raisins.) Dinuba Farmers Union Packing Co. No. 16,635; Nov. 5; Gaz. vol. 184; p. 284.
"Amarin." (For a Medicinal Preparation.) Yalowich Brothers' Drug Co. No. 16,448; July 2; Gaz. vol. 180; p. 320.
"Ampt's Toasted Corn Dainties." (For Toasted Corn-Flakes.) C. F. Ampt. No. 16,374; June 11; Gaz. vol. 179; p. 571.
"Anenda." (For Insect-Destroyer.) F. J. Tuite. No. 16,590; Oct. 1; Gaz. vol. 183; p. 216.
"Anisetta." (For Cordials.) Mariani Bros. No. 16,476; July 23; Gaz. vol. 180; p. 1136.
"Arrow Pad Garter." (For Garters.) Liberty Garter Manufacturing Company. No. 16,565; Sept. 10; Gaz. vol. 182; p. 508.
"Attention Brand." (For Sweet Corn.) The Hampton-Kelley Canning Company. No. 16,235; Mar. 12; Gaz. vol. 176; p. 524.
"Aviation Game." (For a Game.) L. S. Thomson. No. 16,145; Jan. 30; Gaz. vol. 174; p. 1216.
"Babcock's Cough Syrup, A Specific for Coughs, Colds and Affections of the Throat and Lungs." (For Medicines.) T. H. Babcock. No. 16,704; Dec. 24; Gaz. vol. 185; p. 1052.
"Baby Rose." (For Cigars.) The Moehle Lithographic Company. No. 16,381; June 11; Gaz. vol. 179; p. 571.
"Bangoria." (For Pockets of Shirts.) H. Sofferman. No. 16,332; May 7; Gaz. vol. 178; p. 318.
"Banker's Insurance (Picture of Indian Head) Ink." (For Ink.) H. A. Sprague. No. 16,648; Nov. 5; Gaz. vol. 184; p. 284.
"Banner Issue." (For Cigars.) The Moehle Lithographic Company. No. 16,646; Nov. 5; Gaz. vol. 184; p. 284.
"Barondale." (For Whisky.) Guernsey & Murray Grocer Company. No. 16,247; Mar. 19; Gaz. vol. 176; p. 747.
"Bath Amone." (For Toilet Compounds.) American Ammone Company. No. 16,115; Jan. 23; Gaz. vol. 174; p. 1024.
"Bayocean." (For Canned Salmon.) Oregon Fisheries Company. No. 16,551; Aug. 27; Gaz. vol. 181; p. 1071.
"Be Your Own Dentist." (For Outfits for Home Dental Treatment.) S. I. Salzman. No. 16,608; Oct. 22; Gaz. vol. 183; p. 1030.
"Beavertone." (For Paint.) A. P. Shattuck. No. 16,717; Dec. 24; Gaz. vol. 185; p. 1052.
"Belle Point." (For Cigars.) Julius Bien Company. No. 16,129; Jan. 23; Gaz. vol. 174; p. 1024.
"Ben Fez." (For Cigars.) A. C. Henschel & Co. No. 16,620; Oct. 29; Gaz. vol. 183; p. 1306.
"Bentley's Louse Killer." (For Preparation to Relieve All Kinds of Animals from Vermin.) G. G. Bentley. No. 16,105; Jan. 16; Gaz. vol. 174; p. 827.
"Bersagliere Brand." (For Cotton-Seed Oil.) The Youngstown Macaroni Co. No. 16,592; Oct. 1; Gaz. vol. 183; p. 216.
"Best Out West." (For Flour.) J. W. Denio Milling Company. No. 16,379; June 11; Gaz. vol. 179; p. 571.
"Black and Gold." (For Whisky.) S. Froehlich & Son. No. 16,392; June 11; Gaz. vol. 179; p. 571.
"Black-Dandy." (For Stove-Polish.) H. Sonnenschein. No. 16,479; July 23; Gaz. vol. 180; p. 1136.
"Black Shield." (For Cigars.) A. C. Herschel & Co. No. 16,283; Apr. 16; Gaz. vol. 177; p. 768.
"Blackbird." (For Jar-Rings.) The Rubber Products Company. No. 16,227; Mar. 5; Gaz. vol. 176; p. 272.
"Blue Diamond." (For Coffee.) Austin, Nichols & Co. No. 16,703; Dec. 24; Gaz. vol. 185; p. 1052.
"Blue Ribbon." (For Playing-Cards.) The Russel Playing Card Company. No. 16,388; June 11; Gaz. vol. 179; p. 571.
"Blue Ribbon Milk Pail." (For Milk-Pails.) C. S. Moore. No. 16,269; Apr. 2; Gaz. vol. 177; p. 238.
"Blunts." (For Cigars.) T. G. Thompson. No. 16,630; Oct. 29; Gaz. vol. 183; p. 1306.
"Bob White Maple and Cane Syrup." (For Maple and Cane Syrup.) The Keyes Manufacturing Company. No. 16,163; Feb. 6; Gaz. vol. 175; p. 263.
"Bon Ton The Most Perfect Fitting Corset in The World." (For Corsets.) Royal Worcester Corset Co. No. 16,387; June 11; Gaz. vol. 179; p. 571.
"Bonnie Lassie." (For Shoes.) Clark-Hutchinson Company. No. 16,213; Mar. 5; Gaz. vol. 176; p. 272.
"Boy Scouts Honey Nut Kisses." (For Candy Kisses.) J. Catsigianis. No. 16,433; July 2; Gaz. vol. 180; p. 320.
"Boy Scouts Pop Corn." (For Popcorn.) J. Catsigianis. No. 16,456; July 16; Gaz. vol. 180; p. 877.
"Briar Hill Whiskey." (For Whisky.) The Hewitt Mercantile Company. No. 16,190; Feb. 27; Gaz. vol. 175; p. 1096.
"Brilliant Illuminator." (For Carbon-Oil.) The J. B. Murphy Co. No. 16,256; Mar. 26; Gaz. vol. 176; p. 1068.
"Brown's High Grade Metal Ware." (For Sheet-Metal Ware.) The Brown Stamping Company. No. 16,417; June 25; Gaz. vol. 179; p. 1105.
"Buckman Mineral Water." (For Mineral Water.) Buckman Springs Lithia Water Co. No. 16,523; Aug. 27; Gaz. vol. 181; p. 1071.
"Bunte Menthol-Horehound Cough Drops." (For Cough-Drops.) Bunte Brothers. Nos. 16,707–8; Dec. 24; Gaz. vol. 185; p. 1052.
"Burckhardt's Royal Farina." (For Farina.) F. Burckhardt. No. 16,152; Feb. 6; Gaz. vol. 175; p. 263.
"Burial Garment Display Box." (For Burial-Garments.) Frank & Lambert. No. 16,596; Oct. 8; Gaz. vol. 183; p. 501.
"Butter Cups." (For Coffee.) Tindall, Kolbe, McDowell Company. No. 16,522; Aug. 13; Gaz. vol. 181; p. 539.
"Butter-Krust." (For Bread.) C. E. Adams. No. 16,702; Dec. 24; Gaz. vol. 185; p. 1052.
"C. R. C." (For Cigars.) Cardoe Remedy Company. No. 16,571; Oct. 1; Gaz. vol. 183; p. 216.
"Canaday's Weed Killer." (For Weed-Killer.) A. M. Canaday. No. 16,297; Apr. 23; Gaz. vol. 177; p. 1041.
"Carqué's California Fruit-Laxative." (For Fruit Laxative.) O. Carqué. No. 16,473; July 23; Gaz. vol. 180; p. 1136.
"Castell." (For Rubber Bands.) A. W. Faber. No. 16,189; Feb. 27; Gaz. vol. 175; p. 1096.
"Cedar Blows." (For Moth and Insect Destroyer.) The E. T. Burrowes Co. No. 16,504; Aug. 13; Gaz. vol. 181; p. 539.
"Cedar Sweep." (For a Sweeping Compound.) The Cedar-Sweep Company. No. 16,572; Oct. 1; Gaz. vol. 183; p. 216.
"Certain-teed Roofing." (For Roofing Materials.) General Roofing Manufacturing Company. No. 16,287; Apr. 16; Gaz. vol. 177; p. 768.
"Chancellor." (For Wheat-Flour.) H. H. Whiting. No. 16,414; June 18; Gaz. vol. 179; p. 849.
"Char Coal Tooth Paste." (For Tooth-Paste.) W. H. Hanning. No. 16,124; Jan. 23; Gaz. vol. 174; p. 1024.
"Charm." (For Metal-Polish.) W. J. Scherer. No. 16,715; Dec. 24; Gaz. vol. 185; p. 1052.
"Cherry Smack." (For a Non-Alcoholic Flavoring for Drinks of Various Kinds.) S. & S. Manufacturing Company. No. 16,609; Oct. 22; Gaz. vol. 183; p. 1030.
"Chief Okee." (For Cigars.) The Moehle Lithographic Company. No. 16,383; June 11; Gaz. vol. 179; p. 571.
"Choose Individual Chews." (For Chewing-Tobacco.) International Investment Corporation. No. 16,622; Oct. 29; Gaz. vol. 183; p. 1306.

Alphabetical list of labels—Continued.

"Churngold." (For Oleomargarin.) The Ohio Butterine Co. No. 16,582; Oct. 1; Gaz. vol. 183; p. 216.
"Cigars of Quality Flor Fina." (For Cigars.) American Lithographic Company. No. 16,568; Oct. 1; Gaz. vol. 183; p. 216.
"Clark's Stringent Liniment A Sound Horse for a Dollar." (For Liniment.) W. Clark. No. 16,681; Dec. 10; Gaz. vol. 185; p. 523.
"Clarus." (For an Antiseptic Skin-Lotion.) W. S. Biddle. No. 16,705; Dec. 24; Gaz. vol. 185; p. 1052.
"Clay." (For Cigars.) R. Phister. No. 16,499; Aug. 6; Gaz. vol. 181; p. 264.
"Cleaner-Polish." (For a Cleaner-Polish.) A. C. Jones. No. 16,175; Feb. 13; Gaz. vol. 175; p. 540.
"Club Standard." (For Cigars.) The Moehle Lithographic Co. No. 16,202; Feb. 27; Gaz. vol. 175; p. 1096.
"Coffee Ranch." (For Coffee.) J. T. Watkins. No. 16,335; May 7; Gaz. vol. 178; p. 318.
"College." (For Toilet-Paper.) G. E. Curran. No. 16,376; June 11; Gaz. vol. 179; p. 571.
"Colonial Winner Brand." (For Grape-Fruit.) United States Colonial Fruit Company. No. 16,181; Feb. 20; Gaz. vol. 175; p. 842.
"Columbia." (For Butter.) Union Meat Company. No. 16,611; Oct. 22; Gaz. vol. 183; p. 1030.
"Commercial Note." (For Cigars.) A. C. Henschel & Co. No. 16,365; June 4; Gaz. vol. 179; p. 284.
"Compliments of the Season." (For Cigars.) Julius Bien Company. No. 16,128; Jan. 23; Gaz. vol. 174; p. 1024.
"Contentar." (For Cigars.) Ruy Lopez Ca. No. 16,560; Sept. 3; Gaz. vol. 182; p. 246.
"Conti." (For Food Products.) C. Conti. No. 16,480; July 30; Gaz. vol. 180; p. 1391.
"Convalescent Rye Whiskey." (For Rye Whisky.) F. Schwarz. No. 16,303; Apr. 23; Gaz. vol. 177; p. 1041.
"Cracker." (For Cane-Syrup.) New Orleans Coffee Co. No. 16,404; June 18; Gaz. vol. 179; p. 849.
"'Cranesharp' Self Sharpening Pencils." (For Pencils.) Self-Sharpening Pencil Company. No. 16,672; Nov. 26; Gaz. vol. 184; p. 1071.
"Creco." (For Coffee, Cereals, and Chicory.) Cheek-Neal Coffee Co. No. 16,121; Jan. 23; Gaz. vol. 174; p. 1024.
"Crispy Fluffs The Shredded Candy." (For Candy.) The Max Glick Co. No. 16,327; May 7; Gaz. vol. 178; p. 318.
"Crown." (For Jar-Rings.) The Rubber Products Company. No. 16,226; Mar. 5; Gaz. vol. 176; p. 272.
"Cucumelis." (For a Lotion.) J. G. M. Cordon. No. 16,214; Mar. 5; Gaz. vol. 176; p. 272.
"Custom Clothing Makers Union of America." (For Clothing and Wearing-Apparel.) G. Rotholz. No. 16,176; Feb. 13; Gaz. vol. 175; p. 540.
"Daisy." (For Jar-Rings.) The Rubber Products Company. No. 16,229; Mar. 5; Gaz. vol. 176; p. 272.
"Darbelle Chocolates." (For Chocolates.) The Darby Candy Company. No. 16,187; Feb. 27; Gaz. vol. 175; p. 1096.
"De Marco's Piano Polish—De Marco's Furniture Polish." (For Piano and Furniture Polish.) J. B. De Marco. No. 16,555; Sept. 3; Gaz. vol. 182; p. 246.
"Dea Rosa." (For Cigars.) Julius Bien Company. No. 16,130; Jan. 23; Gaz. vol. 174; p. 1024.
"Deckermaclair." (For Salad-Dressing.) M. C. Decker. No. 16,216; Mar. 5; Gaz. vol. 176; p. 272.
"Deer Brand Fancy Sugar Cured Bacon." (For Prepared Bacon.) A. Silz, Inc. No. 16,349; May 28; Gaz. vol. 178; p. 1150.
"Deer Brand Fancy Sugar Cured Ham." (For Prepared Ham.) A. Silz, Inc. No. 16,348; May 28; Gaz. vol. 178; p. 1150.
"Delavan Brand Sterilized Modified Milk." (For Sterilized Modified Milk.) Delavan Condensed Milk Company. No. 16,141; Jan. 30; Gaz. vol. 174; p. 1216.
"Dermax." (For an Internal Remedy.) Corono Chemical Company. No. 16,157; Feb. 6; Gaz. vol. 175; p. 263.
"Dexterose." (For Foods for Infants and Invalids.) Dexterose Food Co. No. 16,616; Oct. 29; Gaz. vol. 183; p. 1306.
"Diamond A." (For Citrus Fruits.) V. Peyton. No. 16,497; Aug. 6; Gaz. vol. 181; p. 264.
"Diamond B." (For Citrus Fruits.) V. Peyton. No. 16,498; Aug. 6; Gaz. vol. 181; p. 264.
"Diamond Head." (For Canned Salmon.) H. Hackfeld & Co. No. 16,575; Oct. 1; Gaz. vol. 183; p. 216.
"Diamond Lustre." (For Polish.) J. J. Vetrovec. No. 16,455; July 9; Gaz. vol. 180; p. 600.
"Dinuba Fancy Seeded Raisins." (For Seeded Raisins.) Dinuba Farmers Union Packing Co. No. 16,634; Nov. 5; Gaz. vol. 184; p. 284.
"Doctors Port." (For Wines.) C. Hascall & Co. No. 16,398; June 18; Gaz. vol. 179; p. 849.
"Doctor's Special." (For Cigars.) The Moehle Lithographic Co. No. 16,203; Feb. 27; Gaz. vol. 175; p. 1096.
"Dodson's Liver Tonic." (For a Medicinal Preparation.) J. G. Dodson. No. 16,313; Apr. 30; Gaz. vol. 177; p. 1294.
"Dominick Special Rye." (For Whisky.) D. Canale & Co. No. 16,554; Sept. 3; Gaz. vol. 182; p. 246.
"Don Alberto." (For Cigars.) W. E. Riggs. No. 16,251; Mar. 19; Gaz. vol. 176; p. 747.
"Don Alvano." (For Cigars.) C. B. Henschel Mfg. Co. No. 16,636; Nov. 5; Gaz. vol. 184; p. 284.
"Don Brazos." (For Cigars.) Julius Bien Company. No. 16,131; Jan. 23; Gaz. vol. 174; p. 1024.
"Donna Manila." (For Cigars.) The Moehle Lithographic Company. No. 16,220; Mar. 5; Gaz. vol. 176; p. 272.
"Doraz." (For Cigars.) Julius Bien Company. No. 16,515; Aug. 13; Gaz. vol. 181; p. 539.
"Double Header." (For Cigars.) The Moehle Lithographic Co. No. 16,198; Feb. 27; Gaz. vol. 175; p. 1096.
"Dr. E. H. Cowan's Ounce of Prevention Powders Successfully used with Dr. E. H. Cowan's Hygienic Outfit." (For Prevention-Powders.) E. H. Cowan. No. 16,352; May 28; Gaz. vol. 178; p. 1150.
"Dr. Posner's High School Shoe." (For Shoes.) A. Posner. No. 16,147; Jan. 30; Gaz. vol. 174; p. 1216.
"Dr. Ulrici's Compound Cordial of Cerebrine." (For a Pharmaceutical Preparation.) C. J. Ulrici. No. 16,429; June 25; Gaz. vol. 179; p. 1105.
"Drummond's Royal Liqueur." (For Scotch Whisky.) J. Drummond & Co. No. 16,563; Sept. 10; Gaz. vol. 182; p. 508.
"Dubonnet Wine." (For Appetizing-Wine.) Société Anonyme Dubonnet. No. 16,610; Oct. 22; Gaz. vol. 183; p. 1030.
"Dynamite Castile Soap Powder." (For Soap Powder.) Rome Soap Manufacturing Company. No. 16,669; Nov. 26; Gaz. vol. 184; p. 1071.
"E. Harrison's Chewing Gum." (For Chewing-Gum.) R. M. Ackerman. No. 16,113; Jan. 23; Gaz. vol. 174; p. 1024.
"Eagle Brand Sweater Shirt." (For Shirts and Sweaters.) The Adler Underwear & Hosiery Mfg. Co. No. 16,373; June 11; Gaz. vol. 179; p. 571.
"Eagle Mikado Pencils." (For Lead-Pencils.) Eagle Pencil Company. No. 16,245; Mar. 19; Gaz. vol. 176; p. 747.
"Easy Jell." (For Jelly-Powder.) Arcadia Food Company. No. 16,116; Jan. 23; Gaz. vol. 174; p. 1024.
"Eclipse Brand Orange Bend Hammock Grapefruit." (For Grape-Fruit.) Eclipse Orange Grove Company. No. 16,684; Dec. 10; Gaz. vol. 185; p. 523.
"Eclipse Brand Orange Bend Hammock Oranges." (For Oranges.) Eclipse Orange Grove Company. No. 16,685; Dec. 10; Gaz. vol. 185; p. 523.
"Eclipse Brand Orange Bend Hammock Tangerines." (For Tangerines.) Eclipse Orange Grove Company. No. 16,683; Dec. 10; Gaz. vol. 185; p. 523.
"Egg Rings." (For Egg-Noodles for Soups.) Lorenz Bros. Macaroni Co. No. 16,518; Aug. 13; Gaz. vol. 181; p. 539.
"Egyptian Deodorizer and Aerofume." (For Pastils for Burning.) Paul Manufacturing Co. No. 16,520; Aug. 13; Gaz. vol. 181; p. 539.
"El Domar." (For Cigars.) C. B. Henschel Mfg. Co. No. 16,397; June 18; Gaz. vol. 179; p. 849.
"El Favo." (For Cigars.) C. B. Henschel Mfg. Co. No. 16,285; Apr. 16; Gaz. vol. 177; p. 768.
"El Ginero." (For Cigars.) C. B. Henschel Mfg. Co. No. 16,273; Apr. 9; Gaz. vol. 177; p. 522.
"El Magno." (For Cigars.) C. B. Henschel Mfg. Co. No. 16,154; Feb. 6; Gaz. vol. 175; p. 263.
"El Merito." (For Blended Coffee.) The Dean Lilly Coffee and Spice Co. No. 16,312; Apr. 30; Gaz. vol. 177; p. 1294.
"El Mismo." (For Cigars.) J. M. González. No. 16,607; Oct. 22; Gaz. vol. 183; p. 1030.
"El Ponto." (For Cigars.) Julius Bien Company. No. 16,516; Aug. 13; Gaz. vol. 181; p. 539.
"El Puerto de Tampa." (For Cigars.) The Moehle Lithographic Company. No. 16,645; Nov. 5; Gaz. vol. 184; p. 284.
"El Telares." (For Cigars.) Julius Bien Company. No. 16,513; Aug. 13; Gaz. vol. 181; p. 539.
"Elberta Best Peach on Earth." (For Elberta Peaches.) The Union Fruit Company. No. 16,240; Mar. 12; Gaz. vol. 176; p. 524.
"Electric Furniture Polish." (For Furniture-Polish.) E. H. Schuler & Co. No. 16,716; Dec. 24; Gaz. vol. 185; p. 1052.
"Elegantes Quality Cigars." (For Cigars.) American Lithographic Company. No. 16,567; Oct. 1; Gaz. vol. 183; p. 216.
"Eleven in One." (For Polish for Metals and Glass.) Upham & Leavitt. No. 16,172; Feb. 6; Gaz. vol. 175; p. 263.
"Elk-Lithia Ginger Ale." (For Ginger-Ale.) Elkton Lithia Bottling Co. No. 16,337; May 14; Gaz. vol. 178; p. 589.
"Ernste's Original Cream of Lemons Compound." (For Toilet Cream.) Ernste Mfg. Co. No. 16,474; July 23; Gaz. vol. 180; p. 1136.

Alphabetical list of labels—Continued.

"Evabelle." (For Cigars.) Julius Bien Company. No. 16,564; Sept. 10; Gaz. vol. 182; p. 508.
"Evarosa." (For Remedial Tonic for Hair and Scalp.) The Toiletine Company. No. 16,140; Jan. 23; Gaz. vol. 174; p. 1024.
"Everlasting Silo." (For Silos.) Mason City Brick and Tile Company. No. 16,146; Jan. 30; Gaz. vol. 174; p. 1216.
"Everybody's." (For Sugar-Syrup and Corn-Syrup.) New Orleans Coffee Co. No. 16,402; June 18; Gaz. vol. 179; p. 849.
"Extoler." (For Cigars.) Mi Lola Cigar Co. No. 16,491; Aug. 6; Gaz. vol. 181; p. 264.
"Fair Maid." (For Complexion-Powder.) C. Tetlow. No. 16,230; Mar. 5; Gaz. vol. 176; p. 272.
"Fancy California Peaches." (For Fresh Peaches.) Penryn Fruit Co. No. 16,451; July 9; Gaz. vol. 180; p. 600.
"Fancy California Plums." (For Fresh Plums.) Penryn Fruit Co. No. 16,452; July 9; Gaz. vol. 180; p. 600.
"Farola." (For Washing-Powder.) Armour and Company. No. 16,677; Dec. 10; Gaz. vol. 185; p. 523.
"Fernet-L-Branca, Di Leone Branca E. Comp." (For Bitters and Cordials.) The Cordial Panna Company. No. 16,244; Mar. 19; Gaz. vol. 176; p. 747.
"Ferro-China-Italia." (For Bitters.) Rinaldi & Grossi. No. 16,138; Jan. 23; Gaz. vol. 174; p. 1024.
"Field-Craft." (For Cigars.) A. C. Henschel & Co. No. 16,482; July 30; Gaz. vol. 180; p. 1391.
"Fighting Bob." (For Cigars.) E. S. Felty. No. 16,540; Aug. 27; Gaz. vol. 181; p. 1071.
"Fine Feeds Make Fast Friends We Make Both." (For Feeds.) M. C. Peters Mill Co. No. 16,483; July 30; Gaz. vol. 180; p. 1391.
"Fitz-Em-All." (For Fruit-Jar Rings.) Smalley, Kivlan & Onthank. No. 16,171; Feb. 6; Gaz. vol. 175; p. 263.
"Flag Brand Make Mascot Shirt." (For Work-Shirts.) D. Krolik. No. 16,325; May 7; Gaz. vol. 178; p. 318.
"Flag Brand Make Winner Shirt." (For Work-Shirts.) D. Krolik. No. 16,324; May 7; Gaz. vol. 178; p. 318.
"Flaxbloom." (For Handkerchiefs.) Maxwell-McClure-Fitts D. G. Co. No. 16,401; June 18; Gaz. vol. 179; p. 849.
"Flaxlawn." (For Paper.) Osborn Paper Company. No. 16,168; Feb. 6; Gaz. vol. 175; p. 263.
"Flor de Ecco." (For Cigars.) Elgin Cigar Company. No. 16,450; July 9; Gaz. vol. 180; p. 600.
"Forbes' Quality." (For Coffee.) Jas. H. Forbes Tea & Coffee Co. No. 16,355; May 28; Gaz. vol. 178; p. 1150.
"Forbes' Quality." (For Extracts.) Jas. H. Forbes Tea & Coffee Co. No. 16,356; May 28; Gaz. vol. 178; p. 1150.
"Forbes' Quality." (For Tea.) Jas. H. Forbes Tea & Coffee Co. No. 16,357; May 28; Gaz. vol. 178; p. 1150.
"Fort Lewis Club." (For Whisky.) H. C. Lewis. No. 16,371; June 4; Gaz. vol. 179; p. 284.
"'49 Camp' Gold Quartz." (For Gold Quartz.) M. A. Beals. No. 16,595; Oct. 8; Gaz. vol. 183; p. 501.
"Frank's Quality Sausage 'Made as only Frank knows how.'" (For Sausage.) L. Frank & Son Company. No. 16,574; Oct. 1; Gaz. vol. 183; p. 216.
"Fraternity Brand Sweet Potatoes." (For Sweet Potatoes.) Southern Products Company. No. 16,628; Oct. 29; Gaz. vol. 183; p. 1306.
"French Market." (For Roasted Coffee and Chicory.) New Orleans Coffee Co. No. 16,329; May 7; Gaz. vol. 178; p. 318.
"Fritz's Wizard Insect Destroyers." (For an Insect-Destroyer.) J. I. Fritz. No. 16,724; Dec. 31; Gaz. vol. 185; p. 1378.
"Gartside's Iron Rust Soap." (For Soap.) J. H. Gartside. No. 16,507; Aug. 13; Gaz. vol. 181; p. 539.
"Genuine Old Country Green Soap." (For Soap.) Norgaard Soap Company. No. 16,495; Aug. 6; Gaz. vol. 181; p. 264.
"George L." (For Cigars.) J. J. Pepper. No. 16,424; June 25; Gaz. vol. 179; p. 1105.
"German Botanic Cough Balsam." (For a Cough-Balsam.) W. Nemser. No. 16,729; Dec. 31; Gaz. vol. 185; p. 1378.
"Getthin's Selto." (For Prepared Salt.) M. Mengis. No. 16,268; Apr. 2; Gaz. vol. 177; p. 238.
"Gilt Edge Beer." (For Beer.) Jacob Wirth & Co. No. 16,658; Nov. 12; Gaz. vol. 184; p. 548.
"Ginger-Brandy." (For Brandy.) S. Froehlich & Son. No. 16,394; June 11; Gaz. vol. 179; p. 571.
"Gingermint." (For Chewing-Gum.) Whitman Chemical Co. No. 16,700; Dec. 10; Gaz. vol. 185; p. 523.
"Gleamo." (For a Polishing Compound.) E. M. Hunt. No. 16,358; May 28; Gaz. vol. 178; p. 1150.
"Glyroin." (For Medicine or Pharmaceutical Preparation.) Towns & James. No. 16,231; Mar. 5; Gaz. vol. 176; p. 272.
"Gold Seal." (For Oranges.) A. Strachan. No. 16,290; Apr. 16; Gaz. vol. 177; p. 768.
"Golden Anchor." (For Cigars.) Boener Bros. No. 16,296; Apr. 23; Gaz. vol. 177; p. 1041.
"Golden Rod." (For Tablets.) Osborn Paper Company. No. 16,330; May 7; Gaz. vol. 178; p. 318.
"Golden Spray." (For Beer.) Jung Brewing Company. No. 16,162; Feb. 6; Gaz. vol. 175; p. 263.
"Golden Sun Tea." (For Tea.) The Woolson Spice Company. No. 16,471; July 16; Gaz. vol. 180; p. 877.
"Golden Wedding." (For Coffee.) Griffin & Hoxie. No. 16,159; Feb. 6; Gaz. vol. 175; p. 263.
"Goldhaven." (For Cigars.) Julius Bien Company. No. 16,512; Aug. 13; Gaz. vol. 181; p. 539.
"Goose Neck." (For Imitation Sorghum.) New Orleans Coffee Co. No. 16,407; June 18; Gaz. vol. 179; p. 849.
"Gottmann & Kretchmer, Chicago, U. S. A." (For Chocolate.) Gottmann & Kretchmer. No. 16,288; Apr. 16; Gaz. vol. 177; p. 768.
"Grand-Prize Milk Fed Poultry." (For Poultry.) N. Schweitzer. No. 16,671; Nov. 26; Gaz. vol. 184; p. 1071.
"Grandmother Dutcher's Painless Menstruation Herbs." (For a Medicinal Preparation.) N. A. Klock. No. 16,654; Nov. 12; Gaz. vol. 184; p. 548.
"Granite Prepared Paint." (For Liquid House-Paint.) The Allentown Manufacturing Company. No. 16,114; Jan. 23; Gaz. vol. 174; p. 1024.
"Grizzly Bear Whiskey." (For Whisky.) The Hewitt Mercantile Company. No. 16,193; Feb. 27; Gaz. vol. 175; p. 1096.
"H. H. Brand." (For Canned Salmon.) H. Hackfeld & Co. Nos. 16,556–7; Sept. 3; Gaz. vol. 182; p. 246.
"Hallmark Color Fast Warranty Bond." (For Shirts.) Hall Hartwell & Company. No. 16,316; Apr. 30; Gaz. vol. 177; p. 1294.
"Handcraft." (For Cigars.) The Moehle Lithographic Company. No. 16,644; Nov. 5; Gaz. vol. 184; p. 284.
"Hardware." (For Tools, Cutlery, Paints, and Tinware.) Hibbard, Spencer, Bartlett & Co. No. 16,637; Nov. 5; Gaz. vol. 184; p. 284.
"Harrison's Pepsin Chewing Gum." (For Chewing-Gum.) R. M. Ackerman. No. 16,185; Feb. 27; Gaz. vol. 175; p. 1096.
"Harvest Inn." (For Sweet Corn.) The Hampton-Kelley Canning Company. No. 16,237; Mar. 12; Gaz. vol. 176; p. 524.
"Havakan." (For Canned Crab-Meat.) H. W. Peabody & Co. No. 16,107; Jan. 16; Gaz. vol. 174; p. 827.
"Havakan." (For Asparagus.) H. W. Peabody & Co. No. 16,583; Oct. 1; Gaz. vol. 183; p. 216.
"Havana Style." (For Cigars.) The Moehle Lithographic Company. No. 16,328; May 7; Gaz. vol. 178; p. 318.
"Hewitt Bourbon Whiskey." (For Whisky.) The Hewitt Mercantile Company. No. 16,420; June 25; Gaz. vol. 179; p. 1105.
"Hewitt Rye Whiskey." (For Whisky.) The Hewitt Mercantile Company. No. 16,419; June 25; Gaz. vol. 179; p. 1105.
"Hickory Ridge Straight Whiskey." (For Whisky.) The Hewitt Mercantile Company. No. 16,191; Feb. 27; Gaz. vol. 175; p. 1096.
"High Ball Lithiated." (For Ginger-Ale.) J. P. & E. V. Hax. No. 16,261; Apr. 2; Gaz. vol. 177; p. 238.
"Hill Grown Brand Tea." (For Tea.) The Millar-Osborn Spice Company. No. 16,641; Nov. 5; Gaz. vol. 184; p. 284.
"Hogarth." (For Cigars.) C. B. Henschel Mfg. Co. No. 16,186; Feb. 27; Gaz. vol. 175; p. 1096.
"Holstein." (For Evaporated Milk.) The Van Camp Packing Co. No. 16,149; Jan. 30; Gaz. vol. 174; p. 1216.
"Home Brand." (For Sliced Oranges.) Growers Home Canning Company. No. 16,315; Apr. 30; Gaz. vol. 177; p. 1294.
"Honey Suckle Brand." (For Honey.) H. L. Meharry. No. 16,196; Feb. 27; Gaz. vol. 175; p. 1096.
"Horse Shoe Grist Mill Cereal Staff of Life." (For Cereal.) Horse Shoe Grist Mill. No. 16,323; May 7; Gaz. vol. 178; p. 318.
"Horse Shoe Grist Mill Cereal, The Finest of the Wheat, Natural Colour." (For Cereal.) Horse Shoe Grist Mill. No. 16,262; Apr. 2; Gaz. vol. 177; p. 238.
"Horse Tonic." (For Horse-Tonic.) J. C. Edwards. No. 16,299; Apr. 23; Gaz. vol. 177; p. 1041.
"Hotchkiss' 'Glass Jar' Label Brand." (For Peaches.) Central California Canneries. No. 16,434; July 2; Gaz. vol. 180; p. 320.
"Hotchkiss' 'Glass Jar' Label Brand." (For Grapes.) Central California Canneries. No. 16,435; July 2; Gaz. vol. 180; p. 320.
"Hotchkiss' 'Glass Jar' Label Brand." (For Cherries.) Central California Canneries. No. 16,436; July 2; Gaz. vol. 180; p. 320.
"Hotchkiss' 'Glass Jar' Label Brand." (For Blackberries.) Central California Canneries. No. 16,457; July 16; Gaz. vol. 180; p. 877.
"Hotchkiss' 'Glass Jar' Label Brand." (For Apricots.) Central California Canneries. No. 16,458; July 16; Gaz. vol. 180; p. 877.
"Hotchkiss' 'Glass Jar' Label Brand." (For Asparagus.) Central California Canneries. No. 16,459; July 16; Gaz. vol. 180; p. 877.

Alphabetical list of labels—Continued.

"Hotchkiss' 'Glass Jar' Label Brand." (For Plums.) Central California Canneries. No. 16,460; July 16; Gaz. vol. 180; p. 877.
"Hotchkiss' 'Glass Jar' Label Brand." (For Pineapple.) Central California Canneries. No. 16,461; July 16; Gaz. vol. 180; p. 877.
"Hotchkiss' 'Glass Jar' Label Brand." (For Pears.) Central California Canneries. No. 16,462; July 16; Gaz. vol. 180; p. 877.
"Hotchkiss' 'Glass Jar' Label Brand." (For Royal Acme Cherries.) Central California Canneries. No. 16,524; Aug. 27; Gaz. vol. 181; p. 1071.
"Hotchkiss' 'Glass Jar' Label Brand." (For Yellow Free Peaches.) Central California Canneries. No. 16,525; Aug. 27; Gaz. vol. 181; p. 1071.
"Hotchkiss' 'Glass Jar' Label Brand." (For Egg-Plums.) Central California Canneries. No. 16,526; Aug. 27; Gaz. vol. 181; p. 1071.
"Hotchkiss' 'Glass Jar' Label Brand." (For Large Asparagus-Tips.) Central California Canneries. No. 16,527; Aug. 27; Gaz. vol. 181; p. 1071.
"Hotchkiss' 'Glass Jar' Label Brand." (For Yellow Cling-Peaches.) Central California Canneries. No. 16,528; Aug. 27; Gaz. vol. 181; p. 1071.
"Hotchkiss' 'Glass Jar' Label Brand." (For Canned Tomatoes.) Central California Canneries. No. 16,529; Aug. 27; Gaz. vol. 181; p. 1071.
"Hotchkiss' 'Glass Jar' Label Brand." (For Oysters.) Central California Canneries. No. 16,530; Aug. 27; Gaz. vol. 181; p. 1071.
"Hotchkiss' 'Glass Jar' Label Brand." (For Salmon.) Central California Canneries. No. 16,531; Aug. 27; Gaz. vol. 181; p. 1071.
"Hotchkiss' 'Glass Jar' Label Brand." (For Cut Stringless Beans.) Central California Canneries. No. 16,532; Aug. 27; Gaz. vol. 181; p. 1071.
"Hotchkiss' 'Glass Jar' Label Brand." (For Olives.) Central California Canneries. No. 16,533; Aug. 27; Gaz. vol. 181; p. 1071.
"Hotchkiss' 'Glass Jar' Label Brand." (For Sifted Peas.) Central California Canneries. No. 16,534; Aug. 27; Gaz. vol. 181; p. 1071.
"Hotchkiss' 'Glass Jar' Label Brand." (For Shrimps.) Central California Canneries. No. 16,535; Aug. 27; Gaz. vol. 181; p. 1071.
"Hotchkiss' 'Glass Jar' Label Brand." (For Pork and Beans.) Central California Canneries. No. 16,536; Aug. 27; Gaz. vol. 181; p. 1071.
"Hotchkiss' 'Glass Jar' Label Brand." (For Prunes.) Central California Canneries. No. 16,537; Aug. 27; Gaz. vol. 181; p. 1071.
"Hunt's Staple Quality." (For California Fruits.) Hunt Brothers Company. No. 16,263; Apr. 2; Gaz. vol. 177; p. 238.
"Hunt's Superior Quality." (For California Fruits.) Hunt Brothers Company. No. 16,264; Apr. 2; Gaz. vol. 177; p. 238.
"Hunt's Supreme Quality." (For California Fruits.) Hunt Brothers Company. No. 16,265; Apr. 2; Gaz. vol. 177; p. 238.
"Hyatt Roller Bearing Oil." (For Lubricants.) New York & New Jersey Lubricant Co. No. 16,731; Dec. 31; Gaz. vol. 185; p. 1378.
"Hyatt Roller Lubricant." (For Lubricants.) New York & New Jersey Lubricant Co. No. 16,732; Dec. 31; Gaz. vol. 185; p. 1378.
"Hygeia Antiseptic Mouth Wash and Gargle." (For Mouth-Wash and Gargle.) E. B. Cootes. No. 16,481; July 30; Gaz. vol. 180; p. 1391.
"I. C. Prevention." (For a Medicinal Preparation.) Paris Chemical Co. No. 16,410; June 18; Gaz. vol. 179; p. 849.
"Ideal or Progress." (For Cooking-Oil.) Louisville Cotton Oil Co. Nos. 16,143–4; Jan. 30; Gaz. vol. 174; p. 1216.
"Ideal Smoke of Leisure." (For Cigars.) F. Novotny. No. 16,598; Oct. 8; Gaz. vol. 183; p. 501.
"Imbriani." (For Macaroni.) W. C. Egerton. No. 16,234; Mar. 12; Gaz. vol. 176; p. 524.
"Imperial Valley Poppy Brand." (For Melons.) Crutchfield & Woolfolk. No. 16,342; May 21; Gaz. vol. 178; p. 883.
"Ineeda." (For a Remedy.) Saratoga Toilet Co. No. 16,239; Mar. 12; Gaz. vol. 176; p. 524.
"Iowa Cluster." (For Sweet Corn.) The Hampton-Kelley Canning Company. No. 16,238; Mar. 12; Gaz. vol. 176; p. 524.
"Isleton Creamery Butter." (For Butter.) Isleton Butter Company. No. 16,126; Jan. 23; Gaz. vol. 174; p. 1024.
"James Stuart." (For Cigars.) F. Bolano & Co. No. 16,314; Apr. 30; Gaz. vol. 177; p. 1294.
"Jamestown Ginger Ale." (For Ginger-Ale.) The N. Y. S. & S. Mfg. Co. No. 16,205; Feb. 27; Gaz. vol. 175; p. 1096.
"Japanese Orange Wraps." (For Orange-Wrappers.) United Paper Co. No. 16,486; July 30; Gaz. vol. 180; p. 1391.
"Japanese Toilet Paper." (For Toilet-Paper.) Phoenix Toilet & Paper Manufacturing Company. No. 16,361; May 28; Gaz. vol. 178; p. 1150.
"Jefferson." (For Cigars.) M. Grossman. No. 16,368; June 4; Gaz. vol. 179; p. 284.
"Joe Houghton Cigars." (For Cigars.) M. J. Dodge. No. 16,721; Dec. 31; Gaz. vol. 185; p. 1378.
"John Claypole." (For Cigars.) The Moehle Lithographic Company. No. 16,643; Nov. 5; Gaz. vol. 184; p. 284.
"John Mill." (For Cigars.) C. B. Henschel Mfg. Co. No. 16,652; Nov. 12; Gaz. vol. 184; p. 548.
"Judge Case." (For Cigars.) A. C. Henschel & Co. No. 16,686; Dec. 10; Gaz. vol. 185; p. 523.
"Juno Maté." (For South American Tea.) Berndt & Co. No. 16,432; July 2; Gaz. vol. 180; p. 320.
"Justiva." (For Cigars.) C. B. Henschel Mfg. Co. No. 16,153; Feb. 6; Gaz. vol. 175; p. 263.
"Kaiser Club." (For Cigars.) The Moehle Lithographic Company. No. 16,278; Apr. 9; Gaz. vol. 177; p. 522.
"Kamehameha." (For Canned Salmon.) H. Hackfeld & Co. No. 16,576; Oct. 1; Gaz. vol. 183; p. 216.
"Kan't-beat-me." (For Hosiery.) J. J. Cohen. No. 16,709; Dec. 24; Gaz. vol. 185; p. 1052.
"Karex Blend Golden Sun Coffee." (For Coffee.) The Woolson Spice Company. No. 16,415; June 18; Gaz. vol. 179; p. 849.
"Keiser Handkerchiefs The Boy's Companion." (For Handkerchiefs.) James R. Keiser Inc. No. 16,623; Oct. 29; Gaz. vol. 183; p. 1306.
"Keiser Handkerchiefs The Little Housekeeper." (For Handkerchiefs.) James R. Keiser Inc. No. 16,624; Oct. 29; Gaz. vol. 183; p. 1306.
"Kellogg's Toasted Wheat Biscuit." (For Biscuit.) Kellogg Toasted Corn Flake Co. No. 16,422; June 25; Gaz. vol. 179; p. 1105.
"Kellogg's Toasted Wheat Biscuit." (For Biscuit.) Kellogg Toasted Corn Flake Co. No. 16,440; July 2; Gaz. vol. 180; p. 320.
"Keserü Gyögy Bor." (For Bitters.) F. Schwarz. No. 16,304; Apr. 23; Gaz. vol. 177; p. 1041.
"Kettering's Worlds Catarrh Remedy." (For a Remedy for Catarrh.) H. H. Kettering. No. 16,369; June 4; Gaz. vol. 179; p. 284.
"Kiddo Jack Kiddo Jill." (For Bread.) The United Advertising Company. No. 16,591; Oct. 1; Gaz. vol. 183; p. 216.
"Kil-Bug." (For Insect-Powder.) E. M. Cashion. No. 16,321; May 7; Gaz. vol. 178; p. 318.
"King." (For Cigars.) J. G. Usner & Son. No. 16,699; Dec. 10; Gaz. vol. 185; p. 523.
"King Philip." (For Cigars.) Zimmerman Cigar Co. No. 16,430; June 25; Gaz. vol. 179; p. 1105.
"King Rags." (For Cigars.) R. Whiteley, Jr. No. 16,294; Apr. 16; Gaz. vol. 177; p. 768.
"Kirst's J & L Special." (For Cigars.) C. and L. Kirst. No. 16,284; Apr. 16; Gaz. vol. 177; p. 768.
"Knighthood Brand." (For Salmon.) Sanborn-Cram Co. No. 16,389; June 11; Gaz. vol. 179; p. 571.
"Koh-i-noor Dress Fastener." (For Dress-Fastening Devices.) Waldes & Co. No. 16,395; June 11; Gaz. vol. 179; p. 571.
"Krementz Bodkin Stud." (For Shirt-Studs.) Krementz & Co. No. 16,666; Nov. 26; Gaz. vol. 184; p. 1071.
"Krispy Krust." (For Bread-Sticks.) A. F. Goetz. No. 16,605; Oct. 22; Gaz. vol. 183; p. 1030.
"Krone der Pfalz." (For Rhine Wine.) D. Leiden. No. 16,688; Dec. 10; Gaz. vol. 185; p. 523.
"Krone der Saar." (For Moselle Wine.) D. Leiden. No. 16,691; Dec. 10; Gaz. vol. 185; p. 523.
"Krone von Berncastel." (For Moselle Wine.) D. Leiden. No. 16,689; Dec. 10; Gaz. vol. 185; p. 523.
"Krone von Erden." (For Moselle Wine.) D. Leiden. No. 16,690; Dec. 10; Gaz. vol. 185; p. 523.
"Kuloff." (For Non-Alcoholic Beverages.) Chas. Jacquin et Cie. No. 16,544; Aug. 27; Gaz. vol. 181; p. 1071.
"La Composa." (For Cigars.) The Moehle Lithographic Company. No. 16,380; June 11; Gaz. vol. 179; p. 571.
"La Domia." (For Cigars.) Julius Bien Company. No. 16,511; Aug. 13; Gaz. vol. 181; p. 539.
"La Farine Blanche." (For Wheat-Flour.) H. H. Whiting. No. 16,413; June 18; Gaz. vol. 179; p. 849.
"La Flor De Asinga." (For Cigars.) E. A. & O. Weber. No. 16,603; Oct. 8; Gaz. vol. 183; p. 501.
"La Flor de Caritan." (For Cigars.) E. A. & Otto Weber. No. 16,629; Oct. 29; Gaz. vol. 183; p. 1306.
"La Flor de Lavinab." (For Cigars.) E. A. & O. Weber. No. 16,604; Oct. 8; Gaz. vol. 183; p. 501.
"La Joya de Cuba." (For Cigars.) The Moehle Lithographic Co. No. 16,197; Feb. 27; Gaz. vol. 175; p. 1096.
"La Plantina." (For Cigars.) The Moehle Lithographic Company. No. 16,519; Aug. 13; Gaz. vol. 181; p. 539.
"La Posenda." (For Cigars.) La Posenda Cigar Co. No. 16,667; Nov. 26; Gaz. vol. 184; p. 1071.
"La Vadura." (For Cigars.) C. B. Henschel Mfg. Co. No. 16,106; Jan. 16; Gaz. vol. 174; p. 827.
"Laconia Spring Water." (For Spring-Water.) F. W. Hoyt, Jr. No. 16,579; Oct. 1; Gaz. vol. 183; p. 216.
"Lady Betty's Pure Fruit Specialties." (For Pure Fruit Specialties.) G. M. Maynard. No. 16,649; Nov. 5; Gaz. vol. 184; p. 284.

Alphabetical list of labels—Continued.

"Lagman's Panama Bouquet." (For Cigars.) C. Lagman. No. 16,581; Oct. 1; Gaz. vol. 183; p. 216.
"Landseer." (For Cigars.) C. B. Henschel Mfg. Co. No. 16,298; Apr. 23; Gaz. vol. 177; p. 1041.
"Laurel." (For Jar-Rings.) The Rubber Products Company. No. 16,228; Mar. 5; Gaz. vol. 176; p. 272.
"Lautz Naphtha." (For Soap.) Lautz Bros. & Co. No. 16,639; Nov. 5; Gaz. vol. 184; p. 284.
"Le Rouge's Authentic-Hair-Auxiliary." (For Hair-Pomade.) Le Rouge Co. No. 16,400; June 18; Gaz. vol. 179; p. 849.
"Le Rouge's Authentic-Hair-Auxiliary Soap." (For Soap.) Le Rouge Co. No. 16,399; June 18; Gaz. vol. 179; p. 849.
"Leath-R-Nu." (For Liquid Preparation to be Used on Leather, Metal, Wood, &c.) Nu-Back Mfg. Co. No. 16,257; Mar. 26; Gaz. vol. 176; p. 1068.
"Lee-Hi." (For Cement.) Lehigh Portland Cement Company. No. 16,164; Feb. 6; Gaz. vol. 175; p. 263.
"Lemon Kola." (For a Beverage.) Lemon-Kola Sales Agency Co. No. 16,441; July 2; Gaz. vol. 180; p. 320.
"Lemon Seidlitz." (For Lemon Seidlitz-Powders.) The Lemon Seidlitz Co. No. 16,165; Feb. 6; Gaz. vol. 175; p. 263.
"Limetta." (For Limetta.) Meyer & Schelling. No. 16,501; Aug. 6; Gaz. vol. 181; p. 264.
"Linaire." (For Toilet-Paper.) The John Hoberg Co. No. 16,542; Aug. 27; Gaz. vol. 181; p. 1071.
"Linden." (For Toilet-Paper.) The John Hoberg Co. No. 16,541; Aug. 27; Gaz. vol. 181; p. 1071.
"Lipton's Jelly Tablets." (For Jelly-Tablets.) T. J. Lipton. No. 16,475; July 23; Gaz. vol. 180; p. 1136.
"Lipton's 'Perfection' Blend Coffee." (For Coffee.) T. J. Lipton. No. 16,640; Nov. 5; Gaz. vol. 184; p. 284.
"Lipton's Tea." (For Tea.) T. J. Lipton. Nos. 16,166–7; Feb. 6; Gaz. vol. 175; p. 263.
"Little Crow." (For Canned Corn.) Cokato Canning Co. No. 16,418; June 25; Gaz. vol. 179; p. 1105.
"Little Egypt." (For Cigars.) Schmidt Co. No. 16,588; Oct. 1; Gaz. vol. 183; p. 216.
"Logab Mixture." (For Smoking-Tobacco.) Logab Tobacco Company. No. 16,550; Aug. 27; Gaz. vol. 181; p. 1071.
"Lollah." (For a Ration or Lunch.) L. C. Allen. No. 16,674; Dec. 10; Gaz. vol. 185; p. 523.
"Lord Baltimore Brand." (For Rubberized Garments.) M. Handwerger. No. 16,508; Aug. 13; Gaz. vol. 181; p. 539.
"Lotus Chocolates Lotus Beauty." (For Chocolates.) The D. J. Ryan Co. No. 16,276; Apr. 9; Gaz. vol. 177; p. 522.
"Lowney's Chocolates and Bonbons." (For Chocolates and Bonbons.) The Walter M. Lowney Company. Nos. 16,291–3; Apr. 16; Gaz. vol. 177; p. 768.
"Loyal Moose." (For Cigars.) Saginaw Specialty Company. No. 16,259; Mar. 26; Gaz. vol. 176; p. 1068.
"Loyal Order." (For Cigars.) The Moehle Lithographic Company. No. 16,382; June 11; Gaz. vol. 179; p. 571.
"Lujoso." (For Cigars.) E. Gonzalez. No. 16,606; Oct. 22; Gaz. vol. 183; p. 1030.
"Lunche-On Biscuit." (For Biscuits or Crackers.) Grocers' Biscuit Company. No. 16,275; Apr. 9; Gaz. vol. 177; p. 522.
"Lustro." (For Polishing-Cloths.) The Lustro Mfg. & Sales Co. No. 16,655; Nov. 12; Gaz. vol. 184; p. 548.
"Luxury." (For Bread.) S. E. Loveless Advertising Service. No. 16,490; Aug. 6; Gaz. vol. 181; p. 264.
"Magic Bar Top Oil." (For Bar-Top Oil.) A. T. Schlichting. No. 16,110; Jan. 16; Gaz. vol. 174; p. 827.
"Mansfield's Fine Creamery Butter." (For Butter.) Fred. C. Mansfield Co. No. 16,692; Dec. 10; Gaz. vol. 185; p. 523.
"Mansfield's Unsweetened Evaporated Milk." (For Evaporated Milk.) Fred. C. Mansfield Co. No. 16,693; Dec. 10; Gaz. vol. 185; p. 523.
"Marhan." (For Liniment.) Haddad Medical Company. No. 16,710; Dec. 24; Gaz. vol. 185; p. 1052.
"Marvelous Cleaner." (For Disinfecting-Cleaner.) M. J. Dunn. No. 16,274; Apr. 9; Gaz. vol. 177; p. 522.
"Mary Ann." (For Bleached Cotton.) J. M. Robinson, Norton & Co. No. 16,277; Apr. 9; Gaz. vol. 177; p. 522.
"Mathues Brothers Maat." (For Cigarettes.) W. F. Mathues. No. 16,267; Apr. 2; Gaz. vol. 177; p. 238.
"McBrady's Beauty Cake." (For Complexion-Cream.) J. E. McBrady. No. 16,301; Apr. 23; Gaz. vol. 177; p. 1041.
"McDuff's Malt Whiskey." (For Malt Whiskies.) McDuff Mercantile Co. No. 16,302; Apr. 23; Gaz. vol. 177; p. 1041.
"McGee's Baby Elixir." (For a Medicinal Preparation.) J. F. Ballard. No. 16,151; Feb. 6; Gaz. vol. 175; p. 263.
"Mellamalt." (For Confections.) Malt Food Products Co. of Oswego, N. Y. No. 16,625; Oct. 29; Gaz. vol. 183; p. 1306.
"Melo." (For Syrup.) The California Condensed Fruit & Syrup Co. No. 16,680; Dec. 10; Gaz. vol. 185; p. 523.
"Mennen's Shaving Cream." (For Shaving-Cream.) G. Mennen Chemical Company. Nos. 16,727–8; Dec. 31; Gaz. vol. 185; p. 1378.
"Mennig's Olive Oil and Port Wine Emulsion." (For an Emulsion of Olive-Oil and Port-Wine.) H. W. Mennig. No. 16,695; Dec. 10; Gaz. vol. 185; p. 523.
"Mentha Peps." (For Flavoring.) C. T. O'Brien. No. 16,696; Dec. 10; Gaz. vol. 185; p. 523.
"Menthe Melange." (For Candy.) H. Maillard. No. 16,465; July 16; Gaz. vol. 180; p. 877.
"Mi Lectura." (For Cigars.) J. I. Edelstein. No. 16,449; July 9; Gaz. vol. 180; p. 600.
"Micturitone." (For Diuretic.) Maldehyde Chemical Company. No. 16,195; Feb. 27; Gaz. vol. 175; p. 1096.
"Millennium Salve." (For Salve.) F. Suss. No. 16,454; July 9; Gaz. vol. 180; p. 600.
"Minnesota Belle." (For Wheat-Flour.) H. H. Whiting. No. 16,412; June 18; Gaz. vol. 179; p. 849.
"'Mint Julep Gum' Chewing Gum." (For Chewing-Gum.) R. E. Humphreys Co. No. 16,664; Nov. 26; Gaz. vol. 184; p. 1071.
"Miss Brown." (For Chocolates.) Palmer & Co. No. 16,207; Feb. 27; Gaz. vol. 175; p. 1096.
"Mitifine Flour." (For Flour.) J. D. Dundas. No. 16,217; Mar. 5; Gaz. vol. 176; p. 272.
"Moerlbach Beer." (For Beer.) Moerlbach Brewing Co. No. 16,343; May 21; Gaz. vol. 178; p. 883.
"Mohawk Valley Brand." (For Limburger-Style Cheese.) J. Karlen. No. 16,421; June 25; Gaz. vol. 179; p. 1105.
"Moneyback." (For Flour.) H. C. Davison. No. 16,188; Feb. 27; Gaz. vol. 175; p. 1096.
"Moneyback." (For Flour.) H. C. Davison. No. 16,215; Mar. 5; Gaz. vol. 176; p. 272.
"Monte Cristo." (For Coffee.) Martin Marks Coffee Co. No. 16,219; Mar. 5; Gaz. vol. 176; p. 272.
"Moose Fine Rye Whiskey." (For Whisky.) M. J. Minnick. No. 16,492; Aug. 6; Gaz. vol. 181; p. 264.
"Mother's Delight." (For Canned Corn.) Smith-Yingling Co. No. 16,331; May 7; Gaz. vol. 178; p. 318.
"Mothers Only Hope." (For a Remedy for Croup.) A. W. Brown. No. 16,613; Oct. 29; Gaz. vol. 183; p. 1306.
"Musgo." (For Baking-Powder.) Christie-Collar Mfg. Co. No. 16,156; Feb. 6; Gaz. vol. 175; p. 263.
"My Wife's Hairerbs." (For Hair-Tonic.) C. J. Vreeland. No. 16,183; Feb. 20; Gaz. vol. 175; p. 842.
"Na'-Mon-O'-Ma." (For Water.) Dixon Springs Hotel Company. No. 16,573; Oct. 1; Gaz. vol. 183; p. 216.
"Naturaline." (For a Mineralized Compound.) W. E. Walters. No. 16,173; Feb. 6; Gaz. vol. 175; p. 263.
"Neverust." (For Carpet-Tacks.) The Crossman Tack Company. No. 16,311; Apr. 30; Gaz. vol. 177; p. 1294.
"New Panetela." (For Cigars.) The Moehle Lithographic Co. No. 16,201; Feb. 27; Gaz. vol. 175; p. 1096.
"New South." (For Cane-Syrup.) New Orleans Coffee Co. No. 16,403; June 18; Gaz. vol. 179; p. 849.
"No. 910 Ushco." (For Hames.) U. S. Hame Company. No. 16,308; Apr. 23; Gaz. vol. 177; p. 1041.
"No. 920 Ushco." (For Hames.) U. S. Hame Company. No. 16,307; Apr. 23; Gaz. vol. 177; p. 1041.
"No-Stick." (For Ironing-Wax.) Columbia Wax Works. Nos. 16,350–1; May 28; Gaz. vol. 178; p. 1150.
"Nobald." (For Hair-Tonic.) G. Honeyman. No. 16,439; July 2; Gaz. vol. 180; p. 320.
"Nonpareil Finishing Cement." (For Cement.) Armstrong Cork Company. No. 16,119; Jan. 23; Gaz. vol. 174; p. 1024.
"Nonpareil High Pressure Cement." (For Cement.) Armstrong Cork Company. No. 16,120; Jan. 23; Gaz. vol. 174; p. 1024.
"Nonpareil Low Pressure Cement." (For Cement.) Armstrong Cork Company. No. 16,118; Jan. 23; Gaz. vol. 174; p. 1024.
"Nonpareil Medium Pressure Cement." (For Cement.) Armstrong Cork Company. No. 16,117; Jan. 23; Gaz. vol. 174; p. 1024.
"Nordana." (For Cigars.) C. B. Henschel Mfg. Co. No. 16,367; June 4; Gaz. vol. 179; p. 284.
"Norgaard's Almond Complexion Soap." (For Soap.) Norgaard Soap Company. No. 16,494; Aug. 6; Gaz. vol. 181; p. 264.
"Norgaard's Ox Gall Soap." (For Soap.) Norgaard Soap Company. No. 16,496; Aug. 6; Gaz. vol. 181; p. 264.
"Norton's First Aid Pulmonary Balsam." (For a Remedy.) J. J. Norton. No. 16,222; Mar. 5; Gaz. vol. 176; p. 272.
"Noxagerm." (For a Germ-Killer.) Beck & Farra. No. 16,650; Nov. 12; Gaz. vol. 184; p. 548.
"Ojen." (For Ojen.) Hijos de Quirico Lopez. No. 16,621; Oct. 29; Gaz. vol. 183; p. 1306.
"Old Age." (For Beer.) Jetter Brewing Company. No. 16,317; Apr. 30; Gaz. vol. 177; p. 1294.
"Old Concern Cigar." (For Cigars.) J. O'Brien Cigar Company. No. 16,179; Feb. 20; Gaz. vol. 175; p. 842.
"Old Dominick Bourbon." (For Whisky.) D. Canale & Co. No. 16,488; Aug. 6; Gaz. vol. 181; p. 264.

Alphabetical list of labels—Continued.

"Old Dyer." (For Whisky.) Self & Binswanger. No. 16,305; Apr. 23; Gaz. vol. 177; p. 1041.
"Old Fashion Brew." (For Beer.) Weber Brewing Co. No. 16,673; Nov. 26; Gaz. vol. 184; p. 1071.
"Old Fashion Pound Cake." (For Pound-Cake.) J. Hannemann Baking Co. No. 16,160; Feb. 6; Gaz. vol. 175; p. 263.
"Old German Lager." (For Beer.) The Independent Brewing Company. No. 16,543; Aug. 27; Gaz. vol. 181; p. 1071.
"Old Mill." (For Molasses.) Hearn & Jones. No. 16,438; July 2; Gaz. vol. 180; p. 320.
"Old Rosslyn Rye." (For Whisky.) C. Arey. No. 16,341; May 21; Gaz. vol. 178; p. 883.
"Old Tom Jones." (For Whisky.) E. Loh, J. Donahue, and J. Herman. No. 16,517; Aug. 13; Gaz. vol. 181; p. 539.
"Old Wuerzburger." (For Beer.) Claussen Brewing Association. No. 16,253; Mar. 26; Gaz. vol. 176; p. 1068.
"Opera." (For Toilet-Paper.) G. E. Curran. No. 16,377; June 11; Gaz. vol. 179; p. 571.
"Orange-Julep." (For Non-Intoxicating Beverage.) C. J. Howel. No. 16,578; Oct. 1; Gaz. vol. 183; p. 216.
"Oregon Whiskey." (For Whisky.) The Hewitt Mercantile Company. No. 16,192; Feb. 27; Gaz. vol. 175; p. 1096.
"Oriental Ointment." (For Ointment.) G. E. P. Dalton. No. 16,353; May 28; Gaz. vol. 178; p. 1150.
"Orthopedic Arch Support." (For Shoes.) R. Healy. No. 16,651; Nov. 12; Gaz. vol. 184; p. 548.
"Oshkosh Special." (For Beer.) The Oshkosh Brewing Co. No. 16,385; June 11; Gaz. vol. 179; p. 571.
"Otwell's Tree Paint." (For Tree-Paint.) Minnesota Linseed Oil Paint Company. No. 16,668; Nov. 26; Gaz. vol. 184; p. 1071.
"Our Effort Brand." (For Sweet Corn.) The Hampton-Kelley Canning Company. No. 16,248; Mar. 19; Gaz. vol. 176; p. 747.
"Over-All Club." (For Sweet Corn.) The Hampton-Kelley Canning Company. No. 16,236; Mar. 12; Gaz. vol. 176; p. 524.
"Palisade Peaches." (For Peaches.) The Western Slope Fruit Growers Association. No. 16,553; Aug. 27; Gaz. vol. 181; p. 1071.
"Palmer's Alpean Chocolates." (For Chocolates.) Palmer & Co. No. 16,270; Apr. 2; Gaz. vol. 177; p. 238.
"Pan-A-Ma Mintos." (For Confection.) L. Demartine Supply Co. No. 16,318; Apr. 30; Gaz. vol. 177; p. 1294.
"Panama." (For Oranges and Lemons.) Johnston Fruit Co. No. 16,161; Feb. 6; Gaz. vol. 175; p. 263.
"Panama Creams." (For Crackers.) American Biscuit Co. No. 16,416; June 25; Gaz. vol. 179; p. 1105.
"Panama Pad Garter." (For Garters.) The C. A. Edgarton Manufacturing Company. No. 16,663; Nov. 26; Gaz. vol. 184; p. 1071.
"Paonia Mountain Apples." (For Apples.) The Union Fruit Company. No. 16,241; Mar. 12; Gaz. vol. 176; p. 524.
"Papoose." (For Hosiery.) Richmond Hosiery Mills. No. 16,108; Jan. 16; Gaz. vol. 174; p. 827.
"Parson Brown Orange Bend Hammock Florida Oranges." (For Oranges.) Eclipse Orange Grove Company. No. 16,682; Dec. 10; Gaz. vol. 185; p. 523.
"Pay Day." (For Coffee.) The Ennis-Hanly-Blackburn Coffee Co. No. 16,246; Mar. 19; Gaz. vol. 176; p. 747.
"Peanut Brittle." (For Peanut-Brittle.) Huyler's. No. 16,510; Aug. 13; Gaz. vol. 181; p. 539.
"Pecora Asbestos Furnace Cement." (For Asbestos Furnace-Cement.) Pecora Paint Company. No. 16,224; Mar. 5; Gaz. vol. 176; p. 272.
"Pederika." (For Antiseptic Powder for the Feet.) L. M. Tebbel. No. 16,306; Apr. 23; Gaz. vol. 177; p. 1041.
"Peppermint Twist." (For Peppermint-Twist.) Huyler's. No. 16,580; Oct. 1; Gaz. vol. 183; p. 216.
"Pepsi." (For Beverage.) Pepsi-Cola Co. No. 16,249; Mar. 19; Gaz. vol. 176; p. 747.
"Pepsin and Iron Tablets." (For Tablets.) H. M. Straight. No. 16,362; May 28; Gaz. vol. 178; p. 1150.
"Pepsinco for Dyspepsia." (For a Medicinal Preparation.) Neuro Pharmacal Company. No. 16,493; Aug. 6; Gaz. vol. 181; p. 264.
"Pepsotonic." (For a Tonic.) A. D. McIntyre. No. 16,694; Dec. 10; Gaz. vol. 185; p. 523.
"Perfection Leather Dressing." (For Perfection Leather-Dressing.) White Star Chemical Company. No. 16,340; May 14; Gaz. vol. 178; p. 589.
"Peroxide Cream." (For Complexion-Cream.) C. W. Eakeley. No. 16,505; Aug. 13; Gaz. vol. 181; p. 539.
"Perry's Beau-A-Mi-Derm Toilet Cream." (For Toilet Cream.) B. A. Perry. No. 16,559; Sept. 3; Gaz. vol. 182; p. 246.
"Persian Balm." (For a Skin-Tonic.) Adrian & Venn Co. No. 16,309; Apr. 30; Gaz. vol. 177; p. 1294.
"Perspi-No." (For Toilet Powder.) Perspo Company. No. 16,466; July 16; Gaz. vol. 180; p. 877.
"Phoenix." (For Fresh Grapes.) San Joaquin County Table Grape Growers' Association. No. 16,469; July 16; Gaz. vol. 180; p. 877.
"Photo-Posters." (For Photo-Posters.) The A. A. Stone Company. No. 16,503; Aug. 6; Gaz. vol. 181; p. 264.
"Pied Piper Paste, Rat and Roach Exterminator, Effective Chemical Co. 'We Do The Work.'" (For a Preparation for the Destruction of Rats and Roaches.) R. B. Mahany. No. 16,558; Sept. 3; Gaz. vol. 182; p. 246.
"Pimbley's Piano-Newer." (For Composition for Cleaning and Renovating Piano-Cases and Woodwork.) Pimbley Paint & Glass Co. No. 16,258; Mar. 26; Gaz. vol. 176; p. 1068.
"Pin-acus." (For Lotion or Salve.) E. W. Gaube. No. 16,158; Feb. 6; Gaz. vol. 175; p. 263.
"Planter's Smile." (For Cigars.) The Moehle Lithographic Co. No. 16,200; Feb. 27; Gaz. vol. 175; p. 1096.
"Plymouth." (For Beer.) Plymouth Brwg Company. No. 16,697; Dec. 10; Gaz. vol. 185; p. 523.
"Po-lus-to." (For Furniture, Piano, and Metal Polish.) The Pharmacal Products Company. No. 16,521; Aug. 13; Gaz. vol. 181; p. 539.
"Pocohontas Herb Tablets." (For Herb Tablets.) D. I. Kelley. No. 16,547; Aug. 27; Gaz. vol. 181; p. 1071;
"Poinciana Cerate." (For Preparations for the Skin.) E. C. F. Paarman. No. 16,423; June 25; Gaz. vol. 179; p. 1105.
"Polly Prue Hook and Eye." (For Hooks and Eyes.) Polly Prue Hook and Eye Company. No. 16,148; Jan. 30; Gaz. vol. 174; p. 1216.
"Port Russell." (For Canned Salmon.) Oregon Fisheries Company. No. 16,552; Aug. 27; Gaz. vol. 181; p. 1071.
"Pride of Sheridan." (For Flour.) J. W. Denio Milling Company. No. 16,378; June 11; Gaz. vol. 179; p. 571.
"Princeton." (For Bicycles.) D. P. Harris Hardware Co. No. 16,103; Jan. 2; Gaz. vol. 174; p. 286.
"Private Stock." (For Cigars.) American Lithographic Company. No. 16,310; Apr. 30; Gaz. vol. 177; p. 1294.
"Prize Winner." (For Cigars.) The Moehle Lithographic Company. No. 16,642; Nov. 5; Gaz. vol. 184; p. 284.
"Protection Brand." (For Graham Crackers.) Independent Baking Company. No. 16,638; Nov. 5; Gaz. vol. 184; p. 284.
"Provana." (For Cigars.) Wiedmann-St. Louis Cigar Box Co. No. 16,593; Oct. 1; Gaz. vol. 183; p. 216.
"Prym's Cash Dress Fastener." (For Dress-Fasteners.) The William Prym Company. No. 16,735; Dec. 31; Gaz. vol. 185; p. 1378.
"Pull-The-String Mailing Wrapper." (For Wrappers for Periodicals.) Pull-The-String Mailing Wrapper Co. No. 16,467; July 16; Gaz. vol. 180; p. 877.
"Pure White Paste Many-Cell Jar." (For Paste.) National Gum & Mica Company. No. 16,319; Apr. 30; Gaz. vol. 177; p. 1294.
"Purina Chicken Chowder." (For Chicken Feed.) Ralston Purina Company. No. 16,584; Oct. 1; Gaz. vol. 183; p. 216.
"Purity Brand Pure Louisiana Cane Syrup." (For Cane-Syrup.) Blackman-Morris Co. No. 16,472; July 23; Gaz. vol. 180; p. 1136.
"Quaker Pure." (For Cigars.) T. H. Hart Company. No. 16,725; Dec. 31; Gaz. vol. 185; p. 1378.
"Quality Cigars." (For Cigars.) American Lithographic Company. No. 16,569; Oct. 1; Gaz. vol. 183; p. 216.
"Quick Sale." (For Hardware.) Gardner Wire Company. No. 16,142; Jan. 30; Gaz. vol. 174; p. 1216.
"Quick Sale." (For Weather-Stripping.) Gardner Wire Company. No. 16,506; Aug. 13; Gaz. vol. 181; p. 539.
"R-bst." (For Tomatoes.) J. F. Pyle & Son. No. 16,194; Feb. 27; Gaz. vol. 175; p. 1096.
"R-bst." (For California Fruits.) J. F. Pyle & Son. No. 16,425; June 25; Gaz. vol. 179; p. 1105.
"R. R. V." (For Cigars.) E. Potretzke. No. 16,250; Mar. 19; Gaz. vol. 176; p. 747.
"Radium Beauty Cream." (For Face-Cream.) The American Radio Thor "X" Co. No. 16,719; Dec. 31; Gaz. vol. 185; p. 1378.
"Radium Moor Mud." (For Radio-Active Mud.) The American Radio Thor "X" Co. No. 16,720; Dec. 31; Gaz. vol. 185; p. 1378.
"Radium Table Salt." (For Table Salt.) The American Radio Thor "X" Co. No. 16,718; Dec. 31; Gaz. vol. 185; p. 1378.
"Rainbow Maline." (For Maline.) Rosenthal-Sloan Millinery Co. No. 16,656; Nov. 12; Gaz. vol. 184; p. 548.
"Rapid Copper Powder." (For Metal and Marble Polish.) A. T. Schlichting. No. 16,279; Apr. 9; Gaz. vol. 177; p. 522.
"Rattler Brand." (For Oranges and Grape-Fruit.) E. R. Brackett Company. No. 16,122; Jan. 23; Gaz. vol. 174; p. 1024.
"Red Devil Lye." (For Lye.) W. Schield. No. 16,272; Apr. 2; Gaz. vol. 177; p. 238.

Alphabetical list of labels—Continued.

"Red Heart." (For Grapes.) W. V. Jahant. No. 16,545; Aug. 27; Gaz. vol. 181; p. 1071.
"Red Raven Brand." (For Salmon.) Sanborn-Cram Co. No. 16,390; June 11; Gaz. vol. 179; p. 571.
"Red Rose." (For Cigars.) Schmidt & Co. No. 16,139 Jan. 23; Gaz. vol. 174; p. 1024.
"Red Seal." (For Vanilla Extract.) The Newton Tea & Spice Co. No. 16,180; Feb. 20; Gaz. vol. 175; p. 842.
"Redelheim's Passover Sugar." (For Sugar.) J. Redelheim. No. 16,585; Oct. 1; Gaz. vol. 183; p. 216.
"Redsnapper Sauce." (For Sauce.) T. L. Hardin Co. No. 16,597; Oct. 8; Gaz. vol. 183; p. 501.
"Reis' Nuvo Foundations." (For Embroidery-Foundation Initials and other Foundations for Embroidery.) G. Reis & Bro. No. 16,586; Oct. 1; Gaz. vol. 183; p. 216.
"Reis' Tex Foundations." (For Embroidery-Foundation Initials and other Foundations for Embroidery.) G. Reis Bro. No. 16,599; Oct. 8; Gaz. vol. 183; p. 501.
"Remick's Eczema Remedy." (For Remedy.) J. F. Ballard. No. 16,150; Feb. 6; Gaz. vol. 175; p. 263.
"'Resiak' Bouquet." (For Cigars.) The Moehle Lithographic Company. No. 16,647; Nov. 5; Gaz. vol. 184; p. 284.
"Ricabella." (For Cigars.) Julius Bien Company. No. 16,133; Jan. 23; Gaz. vol. 174; p. 1024.
"Riss-Ene." (For Strop-Dressing.) C. E. Rissmiller. No. 16,468; July 16; Gaz. vol. 180; p. 877.
"Rokeach's Kosher Scouring Powder." (For Scouring-Powder.) I. Rokeach's & Sons. No. 16,426; June 25; Gaz. vol. 179; p. 1105.
"Romeo & Juliet." (For Whisky.) S. Froehlich & Son. No. 16,393; June 11; Gaz. vol. 179; p. 571.
"Rosa del Lago." (For Cigars.) The Moehle Lithographic Company. No. 16,384; June 11; Gaz. vol. 179; p. 571.
"Round Ticket Stocking." (For Stockings.) Brown Durrell Co. No. 16,211; Mar. 5; Gaz. vol. 176; p. 272.
"Rowell's Hair Clenz and Tonic." (For a Remedy for Hair and Scalp Diseases.) S. A. Rowell. No. 16,500; Aug. 6; Gaz. vol. 181; p. 264.
"Royal Blue Laundry Bar." (For Laundry Bar.) C. Stoddart. No. 16,470; July 16; Gaz. vol. 180; p. 877.
"Rubi-Lyptol." (For a Nose and Throat Spray.) Maldehyde Chemical Company. No. 16,266; Apr. 2; Gaz. vol. 177; p. 238.
"Sal Vegetas Rx." (For a Saline and Vegetable Cathartic Compound.) The Pharmacal Products Company. No. 16,626; Oct. 29; Gaz. vol. 183; p. 1306.
"Salma." (For Cigars.) Schmidt & Co. No. 16,670; Nov. 26; Gaz. vol. 184; p. 1071.
"Salve Rey." (For Cigars.) Julius Bien Company. No. 16,132; Jan. 23; Gaz. vol. 174; p. 1024.
"Sam Sutherland Salve." (For Salve.) The Asa Company. No. 16,678; Dec. 10; Gaz. vol. 185; p. 523.
"Samson." (For Washboilers.) M. Kamenstein. No. 16,687; Dec. 10; Gaz. vol. 185; p. 523.
"Samuels SP Capsules." (For a Medicinal Preparation.) The Samuel Chemical Company. No. 16,698; Dec. 10; Gaz. vol. 185; p. 523.
"San Joaquin Brand Choice Seeded Raisins." (For Seeded Raisins.) Dinuba Farmers Union Packing Co. No. 16,662; Nov. 26; Gaz. vol. 184; p. 1071.
"San Puro." (For Cigars.) C. B. Henschel Mfg. Co. No. 16,509; Aug. 13; Gaz. vol. 181; p. 539.
"San Telmo Cigar M'f'g'. Co's. Double Wrapped." (For Cigars.) San Telmo Cigar Mfg. Co. No. 16,478; July 23; Gaz. vol. 180; p. 1136.
"Santa Claus Miniature Bank." (For Toy Banks.) Flower City Specialty Co. No. 16,723; Dec. 31; Gaz. vol. 185; p. 1378.
"Savoy." (For Macaroni.) W. C. Egerton. No. 16,254; Mar. 26; Gaz. vol. 176; p. 1068.
"Saxonia." (For Cigars.) Coleman Cigar Company. No. 16,632; Nov. 5; Gaz. vol. 184; p. 284.
"Schühle's Pure Grape Juice." (For Grape-Juice.) Schühle's Pure Grape Juice Co. No. 16,320; Apr. 30; Gaz. vol. 177; p. 1294.
"Schulze." (For Bread.) Schulze Baking Company. No. 16,347; May 21; Gaz. vol. 178; p. 883.
"Scot Tissue Towels—Tourist's Sealed Package." (For Paper Towels, Comb, Washcloth, Soap, and Drinking-Cup.) Scott Paper Company. No. 16,444; July 2; Gaz. vol. 180; p. 320.
"ScotTissue Dydees." (For Paper Diapers.) Scott Paper Company. No. 16,600; Oct. 8; Gaz. vol. 183; p. 501.
"Scout Gum." (For Chewing-Gum.) C. D. Blackmon. No. 16,679; Dec. 10; Gaz. vol. 185; p. 523.
"Secco." (For Canned Sweet Corn.) S. E. Comstock & Co. No. 16,633; Nov. 5; Gaz. vol. 184; p. 284.
"Security." (For Non-Corrosive Writing Fluids.) Security Ink Co. No. 16,734; Dec. 31; Gaz. vol. 185; p. 1378.
"Serafin Alvarez." (For Wine.) L. M. I. de Alvarez. No. 16,326; May 7; Gaz. vol. 178; p. 318.
"Service." (For Fireless Cookers.) Traverse City Refrigerator Co. No. 16,232; Mar. 5; Gaz. vol. 176: p. 272.
"Service." (For Combined Refrigerators and Fireless Cookers.) Traverse City Refrigerator Co. No. 16,233; Mar. 5; Gaz. vol. 176; p. 272.
"Shaul's Asthma Remedy." (For Asthma Remedy.) H. R. Shaul. No. 16,485; July 30; Gaz. vol. 180; p. 1391.
"Shriner." (For Cigars.) Vilas-Hanigan Cigar Co. No. 16,602; Oct. 8; Gaz. vol. 183; p. 501.
"Shults Bon-Ton Bread." (For Bread.) Shults Bread Company. No. 16,657; Nov. 12; Gaz. vol. 184; p. 548.
"Silk Tape." (For Type-Writer Ribbons.) L. & M. Alexander & Co. No. 16,359; May 28; Gaz. vol. 178; p. 1150.
"Silver Ball." (For Flour.) A. S. Lascelles & Co. No. 16,549; Aug. 27; Gaz. vol. 181; p. 1071.
"Silver Seal." (For Oranges.) A. Strachan. No. 16,289; Apr. 16; Gaz. vol. 177; p. 768.
"Simplex Three Hand Bridge." (For Score-Card and Bridge-Cloth.) H. Wyndham. No. 16,364; May 28; Gaz. vol. 178; p. 1150.
"Skeeter Skoot." (For an Insect-Repellent in the Form of Incense.) S. L. Spenceley. No. 16,502; Aug. 6; Gaz. vol. 181; p. 264.
"Skirts to Order $1.00 From Your Own Material." (For Skirts.) Wright Mfg. Co. No. 16,184; Feb. 20; Gaz. vol. 175; p. 842.
"Skookum Brand." (For Salmon.) Kake Packing Company. No. 16,464; July 16; Gaz. vol. 180; p. 877.
"Slick Hand Cleaner Powder." (For Powder for Cleaning the Hands.) A. T. Schlichting. No. 16,271; Apr. 2; Gaz. vol. 177; p. 238.
"Slick-Shine Furniture Polish." (For Furniture-Polish.) A. T. Schlichting. No. 16,109; Jan. 16; Gaz. vol. 174; p. 827.
"Slick-Shine Liquid Metal Polish." (For Liquid Metal-Polish.) A. T. Schlichting. No. 16,111; Jan. 16; Gaz. vol. 174; p. 827.
"Sniffle-Balm." (For a Medicinal Preparation.) F. H. Robinson. No. 16,386; June 11; Gaz. vol. 179; p. 571.
"Snow White." (For Corn-Syrup and Cane-Sugar Syrup.) New Orleans Coffee Co. No. 16,409; June 18; Gaz. vol. 179; p. 849.
"Socialist." (For Cigars.) J. E. Gease. No. 16,178; Feb. 20; Gaz. vol. 175; p. 842.
"Soda Midgets." (For Crackers.) Independent Baking Company. No. 16,653; Nov. 12; Gaz. vol. 184; p. 548.
"Sola Rosa." (For Cigars.) The Moehle Lithographic Company. No. 16,221; Mar. 5; Gaz. vol. 176; p. 272.
"Solidified Honey." (For Honey.) F. C. Ameiss. No. 16,396; June 18; Gaz. vol. 179; p. 849.
"Some Smoke." (For Cigars.) The Moehle Lithographic Co. No. 16,199; Feb. 27; Gaz. vol. 175; p. 1096.
"Soroma." (For Cigars.) R. Jaskulek. No. 16,546; Aug. 27; Gaz. vol. 181; p. 1071.
"South Pole Whiskey." (For Whisky.) S. Friedberg. No. 16,562; Sept. 10; Gaz. vol. 182; p. 508.
"Southern Fibre Bath Necessities." (For Bath-Mitts and Bath-Straps.) J. H. Woodcock & Son. No. 16,594; Oct. 1; Gaz. vol. 183; p. 216.
"Sparkle." (For Table-Syrup.) New Orleans Coffee Co. No. 16,408: June 18; Gaz. vol. 179; p. 849.
"Sparkling Fizz." (For Non-Alocholic Beverage.) Liquid Food Bottling Company. No. 16,300; Apr. 23; Gaz. vol. 177; p. 1041.
"Spirited Hair Tonic." (For Hair-Tonic.) L. F. G. Short. No. 16,170; Feb. 6; Gaz. vol. 175; p. 263.
"Spotless Cleanser." (For Scouring-Powder.) The Reynolds Corporation. No. 16,627; Oct. 29; Gaz. vol. 183; p. 1306.
"Sterilized Finney Cork." (For Corks.) O. Finney. No. 16,722; Dec. 31; Gaz. vol. 185; p. 1378.
"Sterling Graded." (For Books.) Osborn Paper Company. No. 16,733; Dec. 31; Gaz. vol. 185; p. 1378.
"Stewart's Liquid Compound of Sulphur." (For a Remedy.) The C. M. C. Stewart Sulphur Company. No. 16,242; Mar. 19; Gaz. vol. 176; p. 747.
"Stutts' Eas-It." (For a Remedy for Headaches.) The Eas-It Chemical Co. No. 16,617; Oct. 29; Gaz. vol. 183; p. 1306.
"Success." (For Wheat-Flour.) H. H. Whiting. No. 16,411; June 18; Gaz. vol. 179; p. 849.
"Sugar Plums." (For Candy and Confections.) Farley Candy Co. No. 16,104; Jan. 2; Gaz. vol. 174; p. 286.
"Suggestions." (For Pineapples.) H. B. Kopf. No. 16,726; Dec. 31; Gaz. vol. 185; p. 1378.
"Suits to Order, $6.50 From your own Material." (For Suits.) Wright Mfg. Co. No. 16,208; Feb. 27; Gaz. vol. 175; p. 1096.
"Sulphurro A Remedy." (For a Remedy.) The C. M. C. Stewart Sulphur Company. No. 16,243; Mar. 19; Gaz. vol. 176; p. 747.
"Sum-mo." (For Coffee and Chicory.) Columbia Coffee Mills. No. 16,614; Oct. 29; Gaz. vol. 183; p. 1306.
"Sumore Biscuit." (For Biscuit.) W. P. Battolfson. No. 16,209; Mar. 5; Gaz. vol. 176; p. 272.
"Sumore Flour." (For Flour.) W. P. Battolfson. No. 16,210; Mar. 5; Gaz. vol. 176; p. 272.

Alphabetical list of labels—Continued.

"Sun Rise Brand." (For Evaporated Skim-Milk.) Hires Condensed Milk Company. No. 16,125; Jan. 23; Gaz. vol. 174; p. 1024.
"Sunfast Carpet." (For Carpet.) Arthur Boomhower Corporation. No. 16,706; Dec. 24; Gaz. vol. 185; p. 1052.
"Sunflower." (For Molasses.) Hearn & Jones. No. 16,437; July 2; Gaz. vol. 180; p. 320.
"Sunkist." (For Apples.) P. M. Resetar. No. 16,442; July 2; Gaz. vol. 180; p. 320.
"Sunny South Sun-Kisst." (For Chewing-Gum.) A. A. Austin. No. 16,659; Nov. 26; Gaz. vol. 184; p. 1071.
"Sunset." (For Jar-Rings.) The Rubber Products Company. No. 16,225; Mar. 5; Gaz. vol. 176; p. 272.
"Superior Cigars." (For Cigars.) American Lithographic Company. No. 16,570; Oct. 1; Gaz. vol. 183; p. 216.
"Superior Cigars." (For Cigars.) American Lithographic Company. Nos. 16,675–6; Dec. 10; Gaz. vol. 185; p. 523.
"Superior Insecticide." (For Powder.) Superior Insecticide Company. No. 16,453; July 9; Gaz. vol. 180; p. 600.
"Surinam Chocolate." (For Chocolate.) Gottmann & Kretchmer. No. 16,322; May 7; Gaz. vol. 178; p. 318.
"Sweetland." (For Sugar-Cane Products and Corn-Syrup.) New Orleans Coffee Co. No. 16,405; June 18; Gaz. vol. 179; p. 849.
"Taka-Soda." (For Soda.) Taka-Soda Company. No. 16,445; July 2; Gaz. vol. 180; p. 320.
"Taylor's Pork Goodies." (For Pork Product.) The Taylor Provision Co. No. 16,338; May 14; Gaz. vol. 178; p. 589.
"Taylor's Pork Goodies." (For a Pork Product.) The Taylor Provision Company. No. 16,428; June 25; Gaz. vol. 179; p. 1105.
"Tempo." (For a Temperance Drink.) Continental Cider Co. No. 16,538; Aug. 27; Gaz. vol. 181; p. 1071.
"Tempus." (For Cigars.) C. B. Henschel Mfg. Co. No. 16,155; Feb. 6; Gaz. vol. 175; p. 263.
"Ten Oil Liniment." (For Liniment.) S. Kopald. No. 16,665; Nov. 26; Gaz. vol. 185; p. 1071.
"Tenforone." (For Calcimine.) The A. Wilhelm Company. No. 16,295; Apr. 23; Gaz. vol. 177; p. 1041.
"Texas Sun-Shine." (For Chewing-Gum.) A. A. Austin. No. 16,660; Nov. 26; Gaz. vol. 184; p. 1071.
"The American Model Builder." (For Mechanical Parts.) The American Mechanical Toy Company. No. 16,431; July 2; Gaz. vol. 180; p. 320.
"The Bull Moose Hat." (For Hats.) Ellor Hartley Co. No. 16,566; Sept. 24; Gaz. vol. 182; p. 969.
"The Cork Center Official Ball." (For Base-Balls.) A. J. Reach Company. No. 16,477; July 23; Gaz. vol. 180; p. 1136.
"The Davies Dolls." (For Dolls.) A. Davies. No. 16,615; Oct. 29; Gaz. vol. 183; p. 1306.
"The Enlight." (For Tablets.) Osborn Paper Company. No. 16,137; Jan. 23; Gaz. vol. 174; p. 1024.
"The Five Label Cigar." (For Cigars.) T. F. Martin. No. 16,136; Jan. 23; Gaz. vol. 174; p. 1024.
"The Frameless, or No-Frame Screen." (For Insect or Window Screens.) F. M. King, Sr. No. 16,135; Jan. 23; Gaz. vol. 174; p. 1024.
"The Guth Guarantee." (For Chocolates and Bonbons.) Guth Chocolate Co. No. 16,489; Aug. 6; Gaz. vol. 181; p. 264.
"The Ho Bo Cigar." (For Cigars.) C. Dorf. No. 16,539; Aug. 27; Gaz. vol. 181; p. 1071.
"The Krementz One-Piece-Post & Bean Cuff Button." (For Cuff-Buttons.) Krements & Co. No. 16,711; Dec. 24; Gaz. vol. 185; p. 1052.
"The Mirror-De-Luxe." (For Mirrors.) E. Ewing. No. 16,618; Oct. 29; Gaz. vol. 183; p. 1306.
"The Old Mill Stream." (For Toilet-Paper.) The John Hoberg Co. No. 16,577; Oct. 1; Gaz. vol. 183; p. 216.
"The Rustless Joint." (For Umbrellas.) S. W. Evans & Son. No. 16,463; July 16; Gaz. vol. 180; p. 877.
"The Staff of Life Nature's Bread." (For Bread.) L. Schneider. No. 16,391; June 11; Gaz. vol. 179; p. 571.
"The Tiger Method." (For Overalls.) J. M. Robinson, Norton & Co. No. 16,256; Mar. 26; Gaz. vol. 176; p. 1068.
"The Waldorf Towels." (For Towels.) Scott Paper Company. No. 16,589; Oct. 1; Gaz. vol. 183; p. 216.
"This Prescription Is Filled in Accordance With Your Physicians Orders and Must Not Be Refilled Without His Request or Consent." (For Drugs.) G. L. Richards. No. 16,443; July 2; Gaz. vol. 180; p. 320.
"Tho-Rad-'X.'". (For Tablets.) The American "Radio-Thor-'X'" Company. No. 16,631; Nov. 5; Gaz. vol. 184; p. 284.
"Thomson Rivets." (For Rivets.) Edwin B. Stimpson Company. No. 16,260; Apr. 2; Gaz. vol. 177; p. 238.
"Tip-Top Flour." (For Wheat-Flour.) O. Rein. No. 16,169; Feb. 6; Gaz. vol. 175; p. 263.
"Tite-Seal." (For Rubber Cements.) Hazen-Brown Company. No. 16,619; Oct. 29; Gaz. vol. 183; p. 1306.
"Tiz For Tender Feet." (For Foot-Bath Tablets.) W. L. Dodge. No. 16,354; May 28; Gaz. vol. 178; p. 1150.
"Tomson's Red Seal Cleanser." (For a Cleanser.) P. C. Tomson & Co. No. 16,223; Mar. 5; Gaz. vol. 176; p. 272.
"Top Sail." (For Ale.) W. Albrecht. No. 16,487; Aug. 6; Gaz. vol. 181; p. 264.
"Toyanah." (For Cigars.) Julius Bien Company. No. 16,514; Aug. 13; Gaz. vol. 181; p. 539.
"Tres Bon." (For Cigars.) Julius Bien Company. No. 16,134; Jan. 23; Gaz. vol. 174; p. 1024.
"Tri-Radiant." (For Acetylene-Gas Burners.) Lenhart Manufacturing Company. No. 16,360; May 28; Gaz. vol. 178; p. 1150.
"Tri-State Capitols." (For Cigars.) N. F. Nelson. No. 16,204; Feb. 27; Gaz. vol. 175; p. 1096.
"Tribe & Co's Special." (For Whisky.) G. H. Tribe & Co. No. 16,446; July 2; Gaz. vol. 180; p. 320.
"Tuberclecide." (For a Remedy.) The Tuberclecide Co. of Arizona. No. 16,363; May 28; Gaz. vol. 178; p. 1150.
"Tubular Rivets." (For Tubular Rivets.) Edwin B. Stimpson Company. No. 16,286; Apr. 16; Gaz. vol. 177; p. 768.
"12 Reasons Why Nuweave Hose Is The Best." (For Hosiery.) The Vaughan Knitting Company. No. 16,601; Oct. 8; Gaz. vol. 183; p. 501.
"Twotone Linen." (For Paper.) Osborn Paper Company. No. 16,206; Feb. 27; Gaz. vol. 175; p. 1096.
"Ulrici's Morrhualta Compound Elixir." (For Pharmaceutical Preparation.) C. J. Ulrici. No. 16,333; May 7; Gaz. vol. 178; p. 318.
"Uncle Hiram's Brighten-All." (For Brighteners and Polishes.) New Method Varnish Company. No. 16,370; June 4; Gaz. vol. 179; p. 284.
"Van Dyk & Co." (For Fruit and Candy Flavors.) Van Dyk & Co. No. 16,612; Oct. 22; Gaz. vol. 183; p. 1030.
"Van's Pure California Honey." (For Honey.) The Van-Thomas Co. No. 16,334; May 7; Gaz. vol. 178; p. 318.
"Vege-Lene Brand." (For Vanilla Flavor.) The Vege-Lene Co. No. 16,339; May 14; Gaz. vol. 178; p. 589.
"Vegetable Salad." (For Vegetable Salad.) Vegetable Food Co. No. 16,280; Apr. 9; Gaz. vol. 177; p. 522.
"Velva Breakfast Syrup." (For Sugar-Cane Syrup.) Penick & Ford. No. 16,345; May 21; Gaz. vol. 178; p. 883.
"Velva Syrup." (For Sugar-Cane and Corn Syrup.) Penick & Ford. No. 16,344; May 21; Gaz. vol. 178; p. 883.
"Victor Cousin." (For Cigars.) Schmidt & Co. No. 16,112; Jan. 16; Gaz. vol. 174; p. 827.
"Violeta." (For Cigars.) Schmidt & Co. No. 16,346; May 21; Gaz. vol. 178; p. 883.
"Vo-Lant." (For Cigars.) Fox Bros. No. 16,218; Mar. 5; Gaz. vol. 176; p. 272.
"W. E. Schollian's Original North American." (For Cigars.) W. E. Schollian. No. 16,484; July 30; Gaz. vol. 180; p. 1391.
"We-Ho Improved." (For Medicine.) J. B. Bolling. No. 16,177; Feb. 20; Gaz. vol. 175; p. 842.
"White and Gold." (For Beer.) Claussen Brewing Association. No. 16,252; Mar. 26; Gaz. vol. 176; p. 1068.
"White Poppy." (For Flour.) C. Briesch & Co. No. 16,212; Mar. 5; Gaz. vol. 176; p. 272.
"White Swan Milk Rice Granulated." (For Granulated Milk Rice.) Kimball & Marxsen. No. 16,548; Aug. 27; Gaz. vol. 181; p. 1071.
"Wildwood Brand." (For Baking-Powder.) New York Baking Powder Company. No. 16,730; Dec. 31; Gaz. vol. 185; p. 1378.
"Windsor." (For Brooms.) Windsor Broom Company. No. 16,447; July 2; Gaz. vol. 180; p. 320.
"Winner Brand." (For Fruit and Vegetables.) W. Buckley. No. 16,661; Nov. 26; Gaz. vol. 184; p. 1071.
"Woodelixir." (For Wood and Metal Polish or Cleaner.) Woodelixir Manufacturing Company. No. 16,174; Feb. 6; Gaz. vol. 175; p. 263.
"X-L-All Clothes." (For Clothes.) Levinson, Schoenfeld & Yatter Co. No. 16,712; Dec. 24; Gaz. vol. 185; p. 1052.
"Yankee Girl Polish." (For Polish for Metals, Glassware, &c.) H. E. Rice. No. 16,587; Oct. 1; Gaz. vol. 183; p. 216.
"Yellow Rose Pure Corn Whiskey." (For Whisky.) I. C. Shore & Co. No. 16,427; June 25; Gaz. vol. 179; p. 1105.

"A Box Full of Beauty." (For Toilet Soap.) Armour and Company. No. 2,954; Feb. 20; Gaz. vol. 175; p. 842.
"A Guarantee That Means Something." (For Brass Beds.) Pittsburgh-Hickson Company. No. 3,073; July 16; Gaz. vol. 180; p. 877.
"A Labor of Love!" (For Wheat Breakfast Food.) Cream of Wheat Co. No. 3,135; Nov. 12; Gaz. vol. 184; p. 548.
"A Visit With The Chef." (For Wheat Breakfast Food.) Cream of Wheat Co. No. 3,119; Oct. 22; Gaz. vol. 183; p. 1030.
"A Warm Nourishing Meal." (For Shredded Wheat.) The Shredded Wheat Company. No. 2,959; Feb. 20; Gaz. vol. 175; p. 842.
"Afloat or Ashore In Town or Out Wear B. V. D." (For Athletic Underwear.) The B. V. D. Company. No. 3,038; May 28; Gaz. vol. 178; p. 1150.
"Alaga Brand." (For Cane-Syrup.) Alabama Georgia Syrup Co. No. 3,025; May 14; Gaz. vol. 178; p. 589.
"Alligator Hide Roofing." (For Composition Roofing.) Utah Lumber Company. No. 2,927; Jan. 16; Gaz. vol. 174; p. 827.
"Alpa." (For Medicinal Herb Tea.) F. N. Musil. No. 3,083; Aug. 13; Gaz. vol. 181; p. 539.
"Appelbaum My Tailor." (For Clothing and Wearing-Apparel.) I. Appelbaum. No. 2,942; Feb. 6; Gaz. vol. 175; p. 263.
"Arrow Collars." (For Collars.) Cluett, Peabody & Company. Nos. 3,058–9; July 2; Gaz. vol. 180; p. 320.
"Arrow Collars and Shirts." (For Arrow Collars and Shirts.) Cluett, Peabody & Company. No. 3,031; May 21; Gaz. vol. 178; p. 883.
"Arrow Collars and Shirts." (For Collars and Shirts.) Cluett, Peabody & Company. No. 3,043; June 4; Gaz. vol. 179; p. 284.
"Arrow Collars and Shirts." (For Collars and Shirts.) Cluett, Peabody & Company. Nos. 3,138–40; Nov. 26; Gaz. vol. 184; p. 1071.
"Arrow Short Bosom Shirts." (For Shirts.) Cluett, Peabody & Company. No. 3,144; Dec. 10; Gaz. vol. 185; p. 523.
"Attention." (For Syrup.) Alabama-Georgia Syrup Company. No. 3,068; July 16; Gaz. vol. 180; p. 877.
"B. V. D. 1912 Two Piece Suit." (For Athletic Underwear.) The B. V. D. Company. No. 2,962; Feb. 27; Gaz. vol. 175; p. 1096.
"B. V. D. 1912 Union Suit." (For Athletic Underwear.) The B. V. D. Company. No. 2,961; Feb. 27; Gaz. vol. 175; p. 1096.
"B. V. D. Quarter Sleeve Union Suit." (For Athletic Underwear.) The B. V. D. Company. No. 2,956; Feb. 20; Gaz. vol. 175; p. 842.
"Banigan Rubbers." (For Rubbers.) The Joseph Banigan Rubber Co. No. 3,077; July 30; Gaz. vol. 180; p. 1391.
"'Bank on' B. V. D." (For Athletic Underwear.) The B. V. D. Company. No. 3,037; May 28; Gaz. vol. 178; p. 1150.
"Beehler Umbrellas Fold and Fit the Suit-case." (For Umbrellas and Parasols.) W. H. Beehler. No. 3,090; Sept. 3; Gaz. vol. 182; p. 246.
"Berlin." (For Cotton Piece Goods.) Wm. Simpson, Sons & Co. No. 3,098; Sept. 10; Gaz. vol. 182; p. 508.
"Billy Beech-Nut." (For Food Products.) Beech-Nut Packing Company. No. 3,134; Nov. 12; Gaz. vol. 184; p. 548.
"Bing's Lucky Penguin." (For Toys.) J. Bing. No. 2,936; Jan. 30; Gaz. vol. 174; p. 1216.
"Bing's Lucky Penguins." (For Toys.) J. Bing. No. 2,935; Jan. 30; Gaz. vol. 174; p. 1216.
"Bock." (For Beer.) Minneapolis Brewing Company. No. 3,082; Aug. 6; Gaz. vol. 181; p. 264.
"Brandimist." (For Non-Alcoholic Beverages.) J. P. Williams. No. 3,065; July 2; Gaz. vol. 180; p. 320.
"Brass Beds Make This Test." (For Brass Beds.) Pittsburgh-Hickson Company. No. 3,024; May 7; Gaz. vol. 178; p. 318.
"Bridge 300 Ft." (For Oils.) A. W. Harris. No. 3,072; July 16; Gaz. vol. 180; p. 877.
"Campbell's Soup." (For Soups.) Joseph Campbell Company. Nos. 2,995–3,006; Apr. 23; Gaz. vol. 177; p. 1041.
"Candy Goldilocks." (For Candy.) The Cocoanut Specialty Co. No. 3,118; Oct. 22; Gaz. vol. 183; p. 1030.
"Chancellor." (For Wheat-Flour.) H. H. Whiting. No. 3,054; June 18; Gaz. vol. 179; p. 849.
"Colspirin." (For Tablets for Grippe.) Maldehyde Chemical Company. No. 3,008; Apr. 23; Gaz. vol. 177; p. 1041.
"Combination Tool and some of its uses." (For a Combination Box and Bottle Opener.) L. F. Grammes & Sons. No. 3,157; Dec. 24; Gaz. vol. 185; p. 1052.
"Cooper's Closed Crotch Underwear." (For Union Undergarments.) Cooper Mfg. Co. No. 3,087; Aug. 27; Gaz. vol. 181; p. 1071.
"Cooper's Underwear Closed Crotch." (For Union Undergarments.) Cooper Mfg. Co. No. 3,067; July 9; Gaz. vol. 180; p. 600.
"Correct Posture Suit." (For Boys' Clothing.) Samuel W. Peck & Co. No. 3,093; Sept. 3; Gaz. vol. 182; p. 246.
"Cream of Wheat for 'Sail.'" (For Wheat Breakfast Food.) Cream of Wheat Co. No. 2,990; Apr. 16; Gaz. vol. 177; p. 768.
"Creamery Butterine." (For Oleomargarin.) Ammon & Person. No. 2,934; Jan. 30; Gaz. vol. 174; p. 1216.
"Crême Elcaya." (For a Toilet Preparation.) The W. F. Powers Company. No. 3,013; Apr. 23; Gaz. vol. 177; p. 1041.
"Crossing 300 Ft." (For Oils.) A. W. Harris. No. 3,070; July 16; Gaz. vol. 180; p. 877.
"Curve 300 Ft." (For Oils.) A. W. Harris. No. 3,069; July 16; Gaz. vol. 180; p. 877.
"De Laval Cream Separators." (For Cream-Separators.) The De Laval Separator Company. No. 2,944; Feb. 6; Gaz. vol. 175; p. 263.
"Delavan Brand Sterilized Modified Milk." (For Sterilized Modified Milk.) Delavan Condensed Milk Company. No. 2,937; Jan. 30; Gaz. vol. 174; p. 1216.
"Delicious Sausage, Heart's Delight Farm." (For Sausages.) W. H. Miner. No. 3,104; Oct. 1; Gaz. vol. 183; p. 216.
"Depend on Val Dona." (For Val Dona Prescriptions.) Druggists' Co-Operative Association. No. 3,120; Oct. 22; Gaz. vol. 183; p. 1030.
"Derbyshire Lathe Large and Small Chucks and Draw-in Spindle." (For Lathes, Large and Small Chucks, and Draw-in Spindles.) F. W. Derbyshire. No. 2,968; Mar. 5; Gaz. vol. 176; p. 272.
"Dr. Caldwell's Syrup Pepsin." (For Syrup Pepsin.) Pepsin Syrup Company. No. 2,969; Mar. 5; Gaz. vol. 176; p. 272.
"Dr. Spencer's Sanitary Knit Underwear." (For a Combination Suit of Underwear.) Crossingham Knitting Mills. No. 3,101; Oct. 1; Gaz. vol. 183; p. 216.
"Dress Styles Come and Go." (For Hooks and Eyes.) Peet Bros. No. 2,930; Jan. 23; Gaz. vol. 174; p. 1024.
"Drink Coca-Cola." (For Coca-Cola.) The Coca-Cola Bottling Co. No. 2,989; Apr. 16; Gaz. vol. 177; p. 768.
"Drink Pepsi-Cola." (For Pepsi-Cola.) The Pepsi-Cola Company. No. 2,983; Apr. 2; Gaz. vol. 177; p. 238.
"Dryfoot." (For Hosiery.) The Norfolk Hosiery and Underwear Mills Co. No. 3,011; Apr. 27; Gaz. vol. 177; p. 1041.
"Durham-Duplex Safe Razors." (For Durham-Duplex Razors and Blades.) Durham Duplex Razor Company. No. 3,102; Oct. 1; Gaz. vol. 183; p. 216.
"Eat bread—*more* bread." (For Bread and Yeast.) The Fleischmann Company. No. 3,155; Dec. 17; Gaz. vol. 185; p. 826.
"Electric Rug and Carpet Cleaner." (For Rug and Carpet Cleaner.) Electric Cleaner Co. No. 3,049; June 11; Gaz. vol. 179; p. 571.
"Elena." (For Cordials.) Mennillo & Lignante. No. 2,949; Feb. 6; Gaz. vol. 175; p. 263.
"Everyman." (For Men's Garters.) George Frost Company. No. 3,044; June 4; Gaz. vol. 179; p. 284.
"Ferry's Seeds." (For Ferry's Seeds.) D. M. Ferry & Co. No. 3,141; Nov. 26; Gaz. vol. 184; p. 1071.
"For Men and Young Men Curlee Clothes Are Always Right." (For Clothes.) Curlee Clothing Co. No. 2,991; Apr. 16; Gaz. vol. 177; p. 768.
"Fravolio." (For Toilet Cream.) A. Pellegrini. No. 2,926; Jan. 16; Gaz. vol. 174; p. 827.
"Fruit Dispatch Company Import the Best." (For Bananas.) Fruit Dispatch Company. No. 3,050; June 18; Gaz. vol. 179; p. 849.
"Funny Boys and Funny Girls." (For Funny Boys and Girls.) L. S. Browning. No. 3,114; Oct. 8; Gaz. vol. 183; p. 501.
"Funny Boys and Funny Girls." (For the Game of Funny Boys and Funny Girls.) L. S. Browning. No. 3,115; Oct. 8; Gaz. vol. 183; p. 501.
"Galaxy." (For Soap.) H. Genseke. No. 3,023; May 7; Gaz. vol. 178; p. 318.

Alphabetical list of prints—Continued.

"Get Under Way & Get There." (For Dry Batteries.) The Nungesser Carbon & Battery Co. No. 3,160; Dec. 24; Gaz. vol. 185; p. 1052.
"Give the Children Plenty of Bread." (For Bread and Yeast.) The Fleischmann Company. No. 3,165; Dec. 31; Gaz. vol. 185; p. 1378.
"'Go-Aways' and 'Stay-At-Homes.'" (For Athletic Underwear.) The B. V. D. Company. No. 3,036; May 28; Gaz. vol. 178; p. 1150.
"Gold Dust." (For a Cleansing Preparation.) The Tablet and Ticket Co. No. 3,046; June 4; Gaz. vol. 179; p. 284.
"Golly! Dey Done Stole Mah Camp Fiah." (For Wheat Breakfast Food.) Cream of Wheat Co. No. 2,978; Mar. 26; Gaz. vol. 176; p. 1068.
"Ground Grippers Grip the Ground." (For Shoes with Flexible Shanks.) E. W. Burt & Company. No. 3,066. July 9; Gaz. vol. 180; p. 600.
"Guarantee, This garment is made of Material printed by the Garner Process." (For Garments.) Garner Print Works and Bleachery. No. 3,057; June 25; Gaz. vol. 179; p. 1105.
"H. H. Harrison's Rapidograph Duplicating Machine." (For Rapidograph Duplicating-Machine.) H. H. Harrison. No. 2,963; Feb. 27; Gaz. vol. 175; p. 1096.
"Harmony Rose Glycerine Soap." (For Soap.) United Drug Co. No. 3,110; Oct. 1; Gaz. vol. 183; p. 216.
"Hebe Bath Powder." (For Hebe Bath-Powder.) Philo Hay Specialties Co. No. 3,094; Sept. 3; Gaz. vol. 182; p. 246.
"Help Wanted." (For Kronberger's California Compound Eucalyptus Syrup.) I. B. Kronberger. No. 2,938; Jan. 30; Gaz. vol. 174; p. 1216.
"Hercules Cloaks." (For Misses', Children's, and Infants' Cloaks.) Michael Bros. No. 2,974; Mar. 19; Gaz. vol. 176; p. 747.
"Here's Good Advice to All: Eat More Bread Everybody Should Eat More Bread." (For Bread and Yeast.) The Fleischmann Company. No. 3,164; Dec. 31; Gaz. vol. 185; p. 1378.
"He's Coming To It." (For Wheat Breakfast Food.) Cream of Wheat Co. No. 2,928; Jan. 23; Gaz. vol. 174; p. 1024.
"Hill 300 Ft." (For Oils.) A. W. Harris. No. 3,071; July 16; Gaz. vol. 180; p. 877.
"Hirschman's Never Stretch 'Turkish Tufted' Cotton Felt Mattress." (For Mattresses.) The J. C. Hirschman Co. No. 3,123; Oct. 29; Gaz. vol. 183; p. 1306.
"Hysterone." (For Uterine Sedative.) Maldehyde Chemical Company. No. 3,007; Apr. 23; Gaz. vol. 177; p. 1041.
"I Done Had To Frame Rastus." (For Wheat Breakfast Food.) Cream of Wheat Co. No. 3,048; June 11; Gaz. vol. 179; p. 571.
"I Use Sozo Shaving Cream It's Great!" (For Shaving-Cream.) Hall & Ruckel. No. 3,159; Dec. 24; Gaz. vol. 185; p. 1052.
"In the good old Summer Time." (For Wheat Breakfast Food.) Cream of Wheat Co. No. 3,076; July 30; Gaz. vol. 180; p. 1391.
"Interwoven Toe and Heel." (For Hosiery.) Interwoven Stocking Company. Nos. 2,946–7; Feb. 6; Gaz. vol. 175; p. 263.
"It's Something You Need." (For Garters.) A. Stein & Company. No. 3,142; Nov. 26; Gaz. vol. 184; p. 1071.
"Jell-O Peach Flavor." (For Jell-O.) The Genesee Pure Food Company. No. 3,063; July 2; Gaz. vol. 180; p. 320.
"Jell-O Raspberry Flavor." (For Jell-O.) The Genesee Pure Food Company. No. 3,061; July 2; Gaz. vol. 180; p. 320.
"Jell-O Strawberry Flavor." (For Jell-O.) The Genesee Pure Food Company. No. 3,062; July 2; Gaz. vol. 180; p. 320.
"Jim Dandy." (For Shirts.) Vindex Shirt Company. No. 2,966; Feb. 27; Gaz. vol. 175; p. 1096.
"John Dough—raised on Fleischmann's Yeast." (For Bread and Yeast.) The Fleischmann Company. No. 3,163; Dec. 31; Gaz. vol. 185; p. 1378.
"Joy-Walk." (For Corn-Plasters.) Aseptic Products Company. No. 3,021; May 7; Gaz. vol. 178; p. 318.
"Kebp." (For Ketterer's Excelsior Blood-Purifier.) The F. W. Ketterer Medicine Co. No. 2,981; Apr. 2; Gaz. vol. 177; p. 238.
"Ketterer's Liver Klenzor." (For Ketterer's Liver-Cleanser.) The F. W. Ketterer Medicine Co. No. 2,982; Apr. 2; Gaz. vol. 177; p. 238.
"Kingsford's Oswego Corn Starch." (For Corn-Starch.) National Starch Company. No. 3,088; Aug. 27; Gaz. vol. 181; p. 1071.
"Kingsford's Oswego Corn Starch." (For Corn-Starch.) National Starch Company. No. 3,097; Sept. 10; Gaz. vol. 182; p. 508.
"Kleinerts Dress Shields." (For Dress-Shields.) I. B. Kleinert Rubber Company. No. 3,041; May 28; Gaz. vol. 178; p. 1150.
"Klosed-Krotch Union Suits." (For Underwear.) Cooper Underwear Co. No. 3,145; Dec. 10; Gaz. vol. 185; p. 523.
"Kolynos how clean my mouth feels." (For Dental Cream.) The Kolynos Co. No. 2,992; Apr. 16; Gaz. vol. 177; p. 768.
"Krischer's Hy-Lo." (For Collar-Supporters.) N. A. Krischer. No. 2,948; Feb. 6; Gaz. vol. 175; p. 263.
"La Farine Blanche." (For Wheat-Flour.) H. H. Whiting. No. 3,052; June 18; Gaz. vol. 179; p. 849.
"La Touraine, The Perfect Coffee." (For Coffee.) W. S. Quinby Company. No. 2,953; Feb. 13; Gaz. vol. 175; p. 540.
"Lion Collars." (For Collars.) United Shirt & Collar Co. No. 2,933; Jan. 23; Gaz. vol. 174; p. 1024.
"Lucine." (For Corsets.) B. May. No. 3,081; Aug. 6; Gaz. vol. 181; p. 264.
"Luxury Cigarettes Cork Tip Ocean to Ocean—Why?" (For Cigarettes.) P. Lorillard Company. No. 3,129; Nov. 5; Gaz. vol. 184; p. 284.
"Luxury Cigarettes Cork Tip Ocean to Ocean—Why?" (For Cigarettes.) P. Lorillard Company. No. 3,131; Nov. 5; Gaz. vol. 184; p. 284.
"Mac an' Roni." (For Macaroni.) The Uncle Sam's Macaroni Co. No. 3,109; Oct. 1; Gaz. vol. 183; p. 216.
"Made-wel." (For Hosiery.) C. H. Bacon. No. 3,039; May 28; Gaz. vol. 178; p. 1150.
"Magic Yeast." (For Magic Yeast.) Northwestern Yeast Co. No. 2,975; Mar. 19; Gaz. vol. 176; p. 747.
"Make Fun of the Sun in Easy-Breezy B. V. D." (For Athletic Underwear.) The B. V. D. Company. No. 3,034; May 28; Gaz. vol. 178; p. 1150.
"Mamma Says 'Borax brightens Colors and prevents fading.'" (For 20-Mule-Team Borax.) Pacific Coast Borax Co. No. 3,016; Apr. 30; Gaz. vol. 177; p. 1294.
"Mamma Says 'Its the Borax with the Soap that saves the clothes.'" (For 20-Mule-Team Borax.) Pacific Coast Borax Co. No. 3,017; Apr. 30; Gaz. vol. 177; p. 1294.
"Mamma Says '20 Mule Team Borax Softens Hard Water.'" (For 20-Mule-Team Borax.) Pacific Coast Borax Co. No. 3,018; Apr. 30; Gaz. vol. 177; p. 1294.
"Meadow-Gold Butter—Sweet as the meadow—Pure as gold." (For Butter.) Beatrice Creamery Co. No. 3,099; Oct. 1; Gaz. vol. 183; p. 216.
"Mecca." (For Cigarettes.) The American Tobacco Co. No. 3,095; Sept. 10; Gaz. vol. 182; p. 508.
"Mennen's Shaving Cream." (For Shaving-Cream.) G. Mennen Chemical Company. No. 3,167; Dec. 31; Gaz. vol. 185; p. 1378.
"Midol." (For a Remedy for Neuralgia and Headache.) General Drug Company. No. 2,979; Mar. 26; Gaz. vol. 176; p. 1068.
"Midol." (For a Remedy for Headache and Neuralgia.) General Drug Company. No. 3,060; July 2; Gaz. vol. 180; p. 320.
"Minnesota Belle." (For Wheat-Flour.) H. H. Whiting. No. 3,055; June 18; Gaz. vol. 179; p. 849.
"Mogul Cork Tip Cigarettes Gulf to Lakes—Why?" (For Cigarettes.) P. Lorillard Company. No. 3,127; Nov. 5; Gaz. vol. 184; p. 284.
"Mogul Cork Tip Cigarettes Gulf to Lakes—Why?" (For Cigarettes.) P. Lorillard Company. No. 3,132; Nov. 5; Gaz. vol. 184; p. 284.
"Monarch Cushions The Key to Perfect Billiard Playing." (For Monarch Cushions.) The Brunswick Balke Collender Co. No. 2,955; Feb. 20; Gaz. vol. 175; p. 842.
"Murad Turkish Cigarettes Everywhere—Why?" (For Cigarettes.) P. Lorillard Company. No. 3,128; Nov. 5; Gaz. vol. 184; p. 284.
"Murad Turkish Cigarettes Everywhere—Why?" (For Cigarettes.) P. Lorillard Company. No. 3,130; Nov. 5; Gaz. vol. 184; p. 284.
"My Hat is in the Ring." (For Teddy Hats.) Boston Novelty Co. No. 3,047; June 11; Gaz. vol. 179; p. 571.
"My Wife Knows! She's solved my troubles for heels and toes." (For Hosiery.) American Art Works. No. 3,056; June 25; Gaz. vol. 179; p. 1105.
"Nasal Tablets." (For Nasal Tablets.) Maldehyde Chemical Company. No. 3,010; Apr. 23; Gaz. vol. 177; p. 1041.
"Never Wet." (For Waterproofing and Preservative Paste for Leather.) Providence Oil Company. No. 2,931; Jan. 23; Gaz. vol. 174; p. 1024.
"No-Hump." (For Collar-Buttons.) E. B. Hafertepen. No. 2,973; Mar. 19; Gaz. vol. 176; p. 747.
"Nonpareil Hair Tonic de Luxe." (For a Hair-Tonic.) J. Leighton. No. 3,028; May 14; Gaz. vol. 178; p. 589.
"Nothin's too good fer the Irish!" (For Wheat Breakfast Food.) Cream of Wheat Co. No. 2,977; Mar. 26; Gaz. vol. 176; p. 1068.
"Nu-Flake." (For Flaked Cereal Food.) E. W. Van Slyke. No. 2,965; Feb. 27; Gaz. vol. 175; p. 1096.
"Nuxotone." (For a Tonic.) Maldehyde Chemical Company. No. 3,009; Apr. 23; Gaz. vol. 177; p. 1041.
"Nylo Chocolates." (For Nylo Chocolates.) New York and London Drug Co. No. 3,105; Oct. 1; Gaz. vol. 183; p. 216.

Alphabetical list of prints—Continued.

"O C O Tasteless Castor Oil." (For Castor-Oil.) The Guy G. Major Company. No. 3,092; Sept. 3; Gaz. vol. 182; p. 246.
"Old Santa Knows What's Good to Eat." (For Wheat Breakfast Food.) Cream of Wheat Co. No. 3,146; Dec. 10; Gaz. vol. 185; p. 523.
"Oriental Special Auto Oil." (For Automobile-Oil.) Oriental Oil Company. No. 2,939; Jan. 30; Gaz. vol. 174; p. 1216.
"Pennsylvania Sugar Co.'s. Extra Fine Quaker Brand Granulated Sugar." (For Sugar.) Pennsylvania Sugar Company. No. 3,107; Oct. 1; Gaz. vol. 183; p. 216.
"Peppermint Breath Hearts." (For Perfumed Candy Tablets.) Schandein & Lind Co. No. 2,940; Jan. 30, Gaz. vol. 174; p. 1216.
"Peptomint Gum." (For Chewing-Gum.) L. P. Larson, Jr. No. 3,078; July 30; Gaz. vol. 180; p. 1391.
"Pin-Acus." (For a Balm.) E. W. Gaube. No. 2,945; Feb. 6; Gaz. vol. 175; p. 263.
"Plano Harvesting Machines." (For Harvesting-Machines.) The Hayes Lithographing Company. No. 3,166; Dec. 31; Gaz. vol. 185; p. 1378.
"Please Order by the Number Shown on Each Band." (For Cigar-Labels.) Steffens, Jones and Co. No. 3,012; Apr. 23; Gaz. vol. 177; p. 1041.
"Plexo Cleansing Cream." (For Greaseless Cleansing-Cream.) Plexo Preparations. No. 2,950; Feb. 6; Gaz. vol. 175; p. 263.
"Products that have made Kentucky Famous." (For Iodinized Emulsion and Creosotonic.) The Dawson Pharmacal Company. No. 2,929; Jan. 23; Gaz. vol. 174; p. 1024.
"Sanatogen." (For a Food Tonic.) The Bauer Chemical Co. No. 3,156; Dec. 24; Gaz. vol. 185; p. 1052.
"Sankavine." (For Urinary Sedative.) Maldehyde Chemical Company. No. 3,075; July 23; Gaz. vol. 180; p. 1136.
"Sapolin." (For Sapolin.) Gerstendorfer Bros. No. 3,136; Nov. 12; Gaz. vol. 184; p. 548.
"Sen Sen Chewing Gum." (For Chewing-Gum.) Sen Sen Chiclet Company. No. 3,033; May 21; Gaz. vol. 178; p. 883.
"Seneca Cameras." (For Plates-Film Pack Roll Film.) Seneca Camera Mfg. Co. No. 3,019; Apr. 30; Gaz. vol. 177; p. 1294.
"Shirley President Suspender Calendar." (For Shirley President Suspenders.) The C. A. Edgarton Mfg. Co. No. 3,103; Oct. 1; Gaz. vol. 183; p. 216.
"Shirley President Suspenders." (For Suspenders.) The C. A. Edgarton Mfg. Co. Nos. 2,984–6; Apr. 9; Gaz. vol. 177; p. 522.
"Silver Moon Cannel." (For Coal.) S. T. Walbolt. No. 3,020; Apr. 30; Gaz. vol. 177; p. 1294.
"Simplex." (For Ironing-Machines.) American Ironing Machine Company. No. 3,143; Dec. 10; Gaz. vol. 185; p. 523.
"Siphon Jet Combination No. 2." (For Water-Closets.) Cochran, Drugan & Co. No. 2,971; Mar. 19; Gaz. vol. 176; p. 747.
"Slippers The Correct Dodge for All Occasions." (For Ladies' Slippers.) Nathan D. Dodge Shoe Co. No. 3,162; Dec. 31; Gaz. vol. 185; p. 1378.
"Snowdrift." (For Snowdrift.) The Southern Cotton Oil Co. No. 3,089; Aug. 27; Gaz. vol. 181; p. 1071.
"Snowdrift." (For Snowdrift.) The Southern Cotton Oil Co. No. 3,153; Dec. 10; Gaz. vol. 185; p. 523.
"Spillno Tooth Powder." (For Tooth-Powder.) A. F. Hetherington. No. 3,014; Apr. 30; Gaz. vol. 177; p. 1294.
"Spread for Bread." (For Karo Corn-Syrup.) Corn Products Refining Company. No. 2,943; Feb. 6; Gaz. vol. 175; p. 263.
"Spring-Step Rubber Heels." (For Rubber Heels.) Revere Rubber Company. Nos. 3,084–5; Aug. 13; Gaz. vol. 181; p. 539.
"Spring Step Rubber Heels." (For Rubber Heels.) Revere Rubber Company. No. 3,116; Oct. 8; Gaz. vol. 183; p. 501.
"Spring-Step Rubber Heels." (For Rubber Heels.) Revere Rubber Company. Nos. 3,149–52; Dec. 10; Gaz. vol. 185; p. 523.
"Standard Lighting System." (For Lighting Systems.) National Stamping & Electric Works. No. 3,148; Dec. 10; Gaz. vol. 185; p. 523.
"Star Safety Razor." (For Star Safety-Razors.) Kampfe Brothers. No. 3,091; Sept. 3; Gaz. vol. 182; p. 246.
"Stingy! Stingy! Want It All Do You?" (For Wheat Breakfast Food.) Cream of Wheat Co. No. 3,027; May 14; Gaz. vol. 178; p. 589.
"Success." (For Wheat-Flour.) H. H. Whiting. No. 3,053; June 18; Gaz. vol. 179; p. 849.
"Sugaco Pure Food Good to Eat." (For Ice-Cream Cones.) Omaha Sugar Cone Co. No. 3,029; May 14; Gaz. vol. 178; p. 589.
"Sunbeam Percheron Collars." (For Horse-Collars.) Brown & Sehler Co. No. 3,113; Oct. 8; Gaz. vol. 183; p. 501.
"Sure Pure." (For Dairy Products.) Wieland Dairy Company. No. 3,161; Dec. 24; Gaz. vol. 185; p. 1052.
"Sweaterette." (For Knit Scarfs.) Star Knitting Co. No. 3,108; Oct. 1; Gaz. vol. 183; p. 216.
"Symphony Lawn Writing Paper." (For Writing-Paper.) United Drug Company. No. 3,117; Oct. 8; Gaz. vol. 183; p. 501.
"Tetlow's Swan Down for the Complexion. (For Powder for the Complexion.) J. Tetlow. No. 2,960; Feb. 20; Gaz. vol. 175; p. 842.
"That ever-Welcome Beer!" (For Beer.) The United States Lithograph Co. No. 3,074; July 16; Gaz. vol. 180; p. 877.
"That Settles It." (For Wheat Breakfast Food.) Cream of Wheat Co. No. 3,100; Oct. 1; Gaz. vol. 183; p. 216.
"That's What You Will Get If You Take One Home." (For Sprayers.) M. Goldman. No. 2,972; Mar. 19; Gaz. vol. 176; p. 747.
"The Barking Dog's Holiday Outfit." (For Smoking-Tobacco and Pipe-Smoker's Outfit.) G. S. Mahn. No. 2,964; Feb. 27; Gaz. vol. 175; p. 1096.
"The Bond Behind the Bed." (For Brass Beds.) Pittsburgh-Hickson Co. No. 3,079; July 30; Gaz. vol. 180; p. 1391.
"The Chocolate Wizard." (For Cocoa and Chocolate.) H. O. Wilbur & Sons. No. 3,032; May 21; Gaz. vol. 178; p. 883.
"The Cigar that put the O. K. in smoke." (For Cigars.) The Jersey City Printing Company. No. 3,124; Oct. 29; Gaz. vol. 183; p. 1306.
"The Collie King Axe." (For the Collie King Ax.) The American Axe & Tool Co. No. 2,988; Apr. 16; Gaz. vol. 177; p. 768.
"The Exquisite Note In Shoes." (For Shoes.) J. and T. Cousins Company. No. 3,015; Apr. 30; Gaz. vol. 177; p. 1294.
"The Fanless Man Wears B. V. D." (For Athletic Underwear.) The B. V. D. Company. No. 3,035; May 28; Gaz. vol. 178; p. 1150.
"The 'Lady Jefferson' Girl." (For Shoes.) Burrow, Jones & Dyer Shoe Co. No. 3,040; May 28; Gaz. vol. 178; p. 1150.
"The Man With The Decanter." (For Distilled Alcoholic Liquors.) Cahn, Belt & Co. No. 3,096; Sept. 10; Gaz. vol. 182; p. 508.
"The New Home Sewing Machine Co." (For Sewing-Machines.) The New Home Sewing Machine Co. No. 2,925; Jan. 2; Gaz. vol. 174; p. 286.
"The Nujet." (For Water-Closets.) Ronalds & Johnson Co. No. 3,042; May 28; Gaz. vol. 178; p. 1150.
"The Perfect Bias Folder." (For a Cloth-Folding Device.) M. Z. Dickinson. No. 3,147; Dec. 10; Gaz. vol. 185; p. 523.
"The Progressive Idea." (For Butter Printing and Wrapping Machines.) R. F. Stewart. No. 3,122; Oct. 22; Gaz. vol. 183; p. 1030.
"The Right Way The Wrong Way." (For Hosiery.) O'Callaghan & Fedden. No. 2,976; Mar. 19; Gaz. vol. 176; p. 747.
"The 'Schoenhut' All Wood Perfection Art Doll." (For Dolls.) The A. Schoenhut Company. No. 3,064; July 2; Gaz. vol. 180; p. 320.
"The Sealy Salesman." (For Mattresses.) The Sealy Mattress Company. No. 2,951; Feb. 6; Gaz. vol. 175; p. 263.
"The Spirit of Cleanliness." (For Soap.) James S. Kirk & Company. No. 2,994; Apr. 23; Gaz. vol. 177; p. 1041.
"The 'Star Brand' Girl." (For Shoes.) Roberts, Johnson & Rand Shoe Co. No. 2,993; Apr. 16; Gaz. vol. 177; p. 768.
"The Tire Perfect." (For Non-Skid Tires.) The Republic Rubber Company. No. 2,980; Mar. 26; Gaz. vol. 176; p. 1068.
"The Val Dona Girl." (For Val Dona Prescriptions.) Druggists' Co-Operative Association. No. 3,121; Oct. 22; Gaz. vol. 183; p. 1030.
"The Wunder Waist-band." (For Trousers.) Marx & Haas Clothing Co. No. 3,045; June 4; Gaz. vol. 179; p. 284.
"Tiffin Room Coffee." (For Coffee.) Fred Wolferman "Good Things to Eat" Co. No. 3,022; May 7; Gaz. vol. 178; p. 318.
"To feel better and live cheaper Eat More Bread." (For Bread and Yeast.) The Fleischmann Company. No. 3,154; Dec. 17; Gaz. vol. 185; p. 826.
"Treffer Buttons." (For Buttons.) H. H. Treffer. No. 3,125; Oct. 29; Gaz. vol. 183; p. 1306.
"Trop-Artic." (For Automobile Lubricating-Oil.) Manhattan Oil Company of Iowa. No. 3,137; Nov. 12; Gaz. vol. 184; p. 548.
"20th Century Calendar." (For Stay-Tongues for Shoes.) W. B. Arnold. No. 3,112; Oct. 8; Gaz. vol. 183; p. 501.
"Two Souls With But a Single Thought." (For Wheat Breakfast Food.) Cream of Wheat Co. No. 2,957; Feb. 20; Gaz. vol. 175; p. 842.
"Unguent." (For a Medicinal Preparation.) Gregoriou & Co. No. 3,158; Dec. 24; Gaz. vol. 185; p. 1052.
"Van Houten's Cocoa." (For Cocoa.) C. J. Van Houten & Zoon. No. 3,030; May 21; Gaz. vol. 178; p. 883.

Alphabetical list of prints—Continued.

"Vas-O! For That Soreness." (For Vas-O.) The Vasa Company. No. 3,111; Oct. 1; Gaz. vol. 183; p. 216.
"Vesuvio." (For Alimentary Pastes.) L. Nunziato Son & Co. No. 3,106; Oct. 1; Gaz. vol. 183; p. 216.
"Violet Breath Hearts." (For Perfumed Candy Tablets.) Schandein & Lind Co. No. 2,941; Jan. 30; Gaz. vol. 174; p. 1216.
"Wait for Me." (For Hams, Bacon, and Lard.) C. Hohman & Sons. No. 3,126; Nov. 5; Gaz. vol. 184; p. 284.
"Was Not Coated With Highland Non-Corrosive Coating." (For Highland Non-Corrosive Coating.) C. W. Brooke. No. 3,086; Aug. 27; Gaz. vol. 181; p. 1071.
"Welch's Grape Juice." (For Grape-Juice.) The Welch Grape Juice Co. No. 2,987; Apr. 9; Gaz. vol. 177; p. 522.
"Wesson Snowdrift Oil." (For Wesson Snowdrift Oil.) The Southern Cotton Oil Co. No. 2,932; Jan. 23; Gaz. vol. 174; p. 1024.
"When Ordering Coal Please Mention the Size Required." (For Coal.) Curtis-Blaisdell & Co. No. 2,967; Mar. 5; Gaz. vol. 176; p. 272.
"Wilbur's Cocoa Can Puzzle and Scenic Picture." (For Cocoa.) The Seiter & Kappes Lithographing Co. No. 2,970; Mar. 12; Gaz. vol. 176; p. 524.
"Winchester Repeating Arms Co., New Haven, Conn." (For Guns and Cartridges of All Kinds.) Winchester Repeating Arms Co. No. 3,133; Nov. 5; Gaz. vol. 184; p. 284.
"Winchester Rifles and Cartridges The W Brand Meet Every Shooting Requirement." (For Winchester Rifles and Cartridges.) Winchester Repeating Arms Co. No. 3,080; July 30; Gaz. vol. 180; p. 1391.
"Winners 'Made To Make Good.'" (For Rubber Tires.) Consolidated Rubber Tire Company. No. 3,026; May 14; Gaz. vol. 178; p. 589.
"Wolfe's Schnapps." (For Schnapps.) Udolpho Wolfe Company. No. 3,051; June 18; Gaz. vol. 179; p. 849.
"Won't You Come To My Party?" (For Shaw's Best Pancake-Flour.) L. M. Shaw. No. 2,952; Feb. 6; Gaz. vol. 175; p. 263.
"Yeast Foam." (For Yeast-Foam.) North Western Yeast Co. No. 2,958; Feb. 20; Gaz. vol. 175; p. 842.

DISCLAIMER.

Air-compressor governing mechanism. R. H. Rice. No. 919,953; date of patent Apr. 27, 1909; disclaimer filed Dec. 5, 1912; Gaz. vol. 185; p. 531.
Cement, Manufacture of. C. Fellner. No. 687,524; date of patent Nov. 26, 1901; disclaimer filed Sept. 25. 1912; Gaz. vol. 183; p. 222.
Coating articles with pulverulent material, Apparatus for. C. Doering, Jr. No. 976,443; date of patent Nov. 22, 1910; disclaimer filed June 13, 1912; Gaz. vol. 179; p. 859.
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